ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2

LABORATORY NAME	ALS Laboratory Group		
CITY/STATE	Salt Lake City, UT 84123		
CASE NO.	45316	SDG NO.:	F9K00
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		
CONTRACT NO.	EP-W-11-037		
SOW NO.	SOM01.2		

All documents delivered in the Complete SDG File (csf) must be original documents where possible.

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
1. **Inventory Sheet** (DC-2) (Do not number)			✓	
2. **SDG Case Narrative**	1	13	✓	
3. **SDG Cover Sheet/Traffic Report**	14	24	✓	
4. **Trace Volatiles Data**				
a. QC Summary				
Deuterated Monitoring Compound Recovery (Form II VOA-1 and VOA-2)	n/a		✓	
Matrix Spike/Matrix Spike Duplicate Recovery (Form III VOA) (if requested by USEPA Region)			✓	
Method Blank Summary (Form IV VOA)			✓	
GC/MS Instrument Performance Check (Form V VOA)			✓	
Internal Standard Area and RT Summary (Form VIII VOA)			✓	
b. Sample Data				
TCL Results - Organics Analysis Data Sheet(Form I VOA-1 and VOA-2)			✓	
Tentatively Identified Compounds (Form I VOA-TIC)			✓	
Reconstructed total ion chromatograms (RIC) for each sample			✓	
For each sample:				
Raw spectra and background-subtracted mass spectra of target compounds identified			✓	
Quantitation reports			✓	
Mass spectra of all reported TICs with three best library matches			✓	
c. Standards Data (All Instruments)				
Initial Calibration Data (Form VI VOA-1, VOA-2, VOA-3)			✓	
RICs and Quantitation Reports for all Standards			✓	
Continuing Calibration Data (Form VII VOA-1, VOA-2, VOA-3)			✓	
RICs and Quantitation Reports for all Standards			✓	
d. Raw/Quality Control (QC) Data			✓	
BFB			✓	
Blank Data			✓	

06/25/2015 DH

9754733

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2

CASE NO.	45316	SDG NO.:	F9K00
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
Matrix Spike/Matrix Spike Duplicate Data (if requested by USEPA Region	n/a		✓	
e. Trace SIM Data (Place at the end of the Trace Volatiles Section)	n/a		✓	
[Form I VOA-SIM; Form II VOA-SIM1 and VOA-SIM2; Form IV-VOA-SIM; Form VI VOA-SIM; Form VII VOA-SIM; Form VIII VOA-SIM; and all raw data for QC, Samples, and Standards.]				
5. Low/Med Volatiles Data				
a. QC Summary				
Deuterated Monitoring Compound Recovery (Form II VOA-1, VOA-2, VOA-3, VOA-4)	25	26	✓	
Matrix Spike/Matrix Spike Duplicate Recovery (Form III VOA-1, VOA-2)(if requested by USEPA Region)	n/a		✓	
Method Blank Summary (Form IV VOA)	27	28	✓	
GC/MS Instrument Performance Check (Form V VOA)	29	31	✓	
Internal Standard Area and RT Summary (Form VIII VOA)	32	33	✓	
b. Sample Data	34	196		
TCL Results - Organics Analysis Data Sheet (Form I VOA-1 and VOA-2)			✓	
Tentatively Identified Compounds (Form I VOA-TIC)			✓	
Recontructed total ion chromatograms (RIC) for each sample			✓	
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds identified			✓	
Quantitation reports			✓	
Mass Spectra of all reported TICs with three best library matches			✓	
c. Standards Data (All Instruments)	197	238		
Initial Calibration Data (Form VI VOA-1, VOA-2, VOA-3)			✓	
RICs and Quantitation Reports for all Standards			✓	
Continuing Calibration Data (Form VII VOA-1, VOA-2, VOA-3)			✓	
RICs and Quantitation Reports for all Standards			✓	
d. Raw/Quality Control (QC) Data				
BFB	239	244	✓	
Blank Data	245	268	✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9K00
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
Matrix Spike/Matrix Spike Duplicate Data (if requested by USEPA Region	n/a		✓	
6. Semivolatiles Data				
a. QC Summary				
Deuterated Monitoring Compound Recovery (Form II SV-1 and SV-2, SV-3, SV-4)	269	270	✓	
Matrix Spike/Matrix Spike Duplicate Recovery Summary (Form III SV-1 and SV-2) (if requested by USEPA Region)	n/a		✓	
Method Blank Summary (Form IV SV)	271	271	✓	
GC/MS Instrument Performance Check (Form V SV)	272	276	✓	
Internal Standard Area and RT Summary (Form VIII SV-1 and SV-2)	277	284	✓	
b. Sample Data	285	931		
TCL Results - Organics Analysis Data Sheet (Form I SV-1 and SV-2)			✓	
Tentatively Identified Compounds (Form I SV-TIC)			✓	
Reconstructed total ion chromatograms (RICs) for each sample			✓	
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds			✓	
Quantitation reports			✓	
Mass Spectra of TICs with three best library matches			✓	
GPC chromatograms (if GPC is required)			✓	
c. Standards Data (All Instruments)	932	1036		
Initial Calibration Data (Form VI SV-1, SV-2, SV-3)			✓	
RICs and Quantitation Reports for all Standards			✓	
Continuing Calibration Data (Form VII SV-1, SV-2, SV-3)			✓	
RICs and Quantitation Reports for all Standards			✓	
d. Raw QC Data				
DFTPP	1037	1051	✓	
Blank Data	1052	1069	✓	
MS/MSD Data (if requested by USEPA Region)	n/a		✓	
e. Raw GPC Data	1070	1074	✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9K00
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
f. Semivolatile SIM Data [Form I SV-SIM; Form II SV-SIM1 and SV-SIM2; Form III SV-SIM1 and SV-SIM2 (if required); Form IV SV-SIM; Form VI-SIM; Form VII SV-SIM; Form VIII SV-SIM1 and SV-SIM2; and all raw data for QC, Samples, and Standards.]	1075	1321	✓	
7. Pesticides Data				
a. QC Summary				
Surrogate Recovery Summary (Form II PEST-1 and PEST-2)	1322	1322	✓	
Matrix Spike/Matrix Spike Duplicate Recovery Summary (Form III PEST-1 and PEST-2)	1323	1324	✓	
Laboratory Control Sample Recovery (Form III Pest-3 and PEST-4)	1325	1325	✓	
Method Blank Summary (Form IV PEST)	1326	1326	✓	
b. Sample Data	1327	1383		
TCL Results - Organics Analysis Data Sheet (Form I PEST)			✓	
Chromatograms (Primary Column)			✓	
Chromatograms from second GC column confirmation			✓	
GC Integration report or data system printout			✓	
Manual work sheets			✓	
For pesticides by GC/MS				
Copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)			✓	
c. Standards Data	1384	1491		
Initial Calibration of Single Component Analytes (Form VI PEST-1 and PEST-2)			✓	
Toxaphene Initial Calibration (Form VI PEST-3 and PEST-4)			✓	
Analyte Resolution Summary (Form VI PEST-5, per column)			✓	
Performance Evaluation Mixture (Form VI PEST-6)			✓	
Individual Standard Mixture A (Form VI PEST-7)			✓	
Individual Standard Mixture B (Form VI PEST-8)			✓	
Individual Standard Mixture C (Form VI PEST-9 and PEST-10)			✓	
Calibration Verification Summary (Form VII PEST-1)			✓	
Calibration Verification Summary (Form VII PEST-2)			✓	
Calibration Verification Summary (Form VII PEST-3)			✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG No	F9K00
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		

	PAGE NOs		CHECK	
	FROM	TO	LAB	USEPA
Calibration Verification Summary (Form VII PEST-4)			✓	
Analytical Sequence (Form VIII PEST)			✓	
Florisil Cartridge Check (Form IX PEST-1)			✓	
Pesticide GPC Calibration (Form IX PEST-2)			✓	
Identification Summary for Single Component Analytes (Form X PEST-1)			✓	
Identification Summary for Toxaphene (Form X PEST-2)			✓	
Chromatograms and data system printouts				
A printout of Retention Times and corresponding peak areas or peak heights			✓	
d. Raw QC Data				
Blank Data	1492	1506	✓	
Matrix Spike/Matrix Spike Duplicate Data	1507	1514	✓	
Laboratory Control Sample Data	1515	1518	✓	
e. Raw GPC Data	1519	1538	✓	
f. Raw Florisil Data	1539	1556	✓	
8. **Aroclor Data**				
a. QC Summary				
Surrogate Recovery Summary (Form II ARO-1 and ARO-2)	1557	1557	✓	
Matrix Spike/Matrix Spike Duplicate Summary (Form III ARO-1 and ARO-2)	1558	1559	✓	
Laboratory Control Sample Recovery (Form III ARO-3 and ARO-4)	1560	1560	✓	
Method Blank Summary (Form IV ARO)	1561	1561	✓	
b. Sample Data	1562	1618		
TCL Results - Organics Analysis Data Sheet (Form I ARO)			✓	
Chromatograms (Primary Column)			✓	
Chromatograms from second GC column confirmation			✓	
GC Integration report or data system printout			✓	
Manual work sheets			✓	
For Aroclors by GC/MS				
Copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)			✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9K00
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
c. Standards Data	1619	1663		
Aroclors Initial Calibration (Form VI ARO-1, ARO-2 and ARO-3)			✓	
Calibration Verification Summary (Form VII ARO-1)			✓	
Analytical Sequence (Form VIII ARO)			✓	
Identification Summary for Multicomponent Analytes (Form X ARO)			✓	
Chromatograms and data system printouts				
A printout of Retention Times and corresponding peak areas or peak heights			✓	
d. Raw QC Data				
Blank Data	1664	1674	✓	
Matrix Spike/Matrix Spike Duplicate Data	1675	1682	✓	
Laboratory Control Sample (LCS) Data	1683	1686	✓	
e. Raw GPC Data (if performed)	1687	1689	✓	
9. **Miscellaneous Data**				
Original preparation and analysis forms or copies of preparation and analysis logbook pages	1690	1849	✓	
Internal sample and sample extract transfer chain-of-custody records	1850	1868	✓	
Screening records	1869	1925	✓	
All instrument output, including strip charts from screening activities (describe or list)				
Method Check/QC Reports/LCS	n/a		✓	
Percent Solids Determinations	1926	1926	✓	
10. **EPA Shipping/Receiving Documents**				
Airbills (no. of shipments 8)	1927	1934	✓	
Chain of Custody Records (Copies)	1935	1944	✓	
Sample Tags	1945	1945	✓	
Sample Log-in Sheet (Lab & DC-1)	1946	1953	✓	
Miscellaneous Shipping/Receiving Records (describe or list)				
DCL Cooler Receipt Checklist	NA		✓	
DCL Sample Work Orders	NA		✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9K00
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
11. **Internal Lab Sample Transfer Records and Tracking Sheets** (describe or list)				
DCL Documentation Checking Forms	1954	1957	✓	
DCL Non-conformance/Corrective Action Reports	NA		✓	
12. **Other Records** (describe or list)				
Telephone Communication Log	NA		✓	
E-mail Communications	n/a		✓	
			✓	

13. **Comments**

n/a

Completed by: (CLP Lab)	Desiree Hill (Signature)	Desiree Hill/DCO (Printed Name/Title)	6/25/15 (Date)
Verified by: (CLP Lab)	Lulu Woodall for (Signature)	Roxanne Olson/Manager (Printed Name/Title)	6/25/15 (Date)
Audited by: (USEPA)	(Signature)	(Printed Name/Title)	(Date)

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SDG Administrative Narrative

Contract: EPW11037

Case: 45816

SDG: F9K00

WO No(s): 1515725

Cooler # and Temperatures of each (upon receipt)

Cooler Number C15-	n/a	Arrival temperature was	2 °C
Cooler Number C15-	n/a	Arrival temperature was	2 °C
Cooler Number C15-	n/a	Arrival temperature was	2 °C
Cooler Number C15-	n/a	Arrival temperature was	2 °C
Cooler Number C15-	n/a	Arrival temperature was	2 °C
Cooler Number C15-	n/a	Arrival temperature was	2 °C
Cooler Number C15-	n/a	Arrival temperature was	2 °C
Cooler Number C15-	n/a	Arrival temperature was	2 °C

Communications:

The sample receipt for this Case/SDG is compliant with EPA CLP SOW requirements.

Comments:

None

Signature: Desiree Hull Date: 08/25/2015

Document Control Officer

SDG Narrative
Low/Medium Volatiles

Contract: EPW11037 **Case:** 45316
Laboratory: ALS Environmental **SDG:** F9K00
Modification Reference Number: NA

EPA No.	ALS Sample	pH	Dilution	EPA No.	ALS Sample	pH	Dilution
F9K00	1515725001	NA	None	F9M91	1515725011	NA	None
F9M82	1515725002	NA	None	F9M92	1515725014	NA	None
F9M83	1515725003	NA	None	F9M92RE	1515725014RE	NA	None
F9M83RE	1515725003RE	NA	None	F9M93	1515725015	NA	None
F9M84	1515725004	NA	None	F9M94	1515725016	NA	None
F9M85	1515725005	NA	None	F9M95	1515725017	NA	None
F9M86	1515725006	NA	None	F9M96	1515725018	NA	None
F9M87	1515725007	NA	None	F9M97	1515725019	NA	None
F9M88	1515725008	NA	None	F9M98	1515725020	NA	None
F9M89	1515725009	NA	None	F9M99	1515725021	NA	None
F9M90	1515725010	NA	None				

General SDG Information: Samples were analyzed according to USEPA CLP Statement of Work SOM01.2. There were no modifications except as listed below.

Instrumentation: Hewlett Packard 5972-S GC/MSD with electron impact ionization and quadrupole detector scanning a mass range of 35 to 300 amu. Column: J&W Scientific DB 624 (75 m, 0.53 mm id, 3 µm film). Purge & Trap: OI Analytical Eclipse 4660 Concentrator (#10 trap) with Varian Archon Autosampler. Carrier and Purge Gas: Helium. Purge Flow: ~35 mL/min. at ambient. Temperature Program: 45°C (3.5 min.) 10°/min. to 220° (2.0 min.).

Sample Preparation: This method has no extraction procedure for the low level soil matrix. Soil samples were received in sample cartridges and were extruded and frozen until analysis. Prior to analysis a total of 10 mL of reagent water containing internal standard/DMC solution was added and the sample was purged.

Instrument Calibration: The GC/MS was hardware tuned to meet the criteria for a 50 ng purging of 4-bromofluorobenzene as specified in the SOW. This tune is valid for 12 hours.

Initial Calibration and Calibration Verification: The five point initial calibration curve met the specified criteria in the SOW with the exception of the dioxane compounds. All calibration verification standards met method specified criteria (again excepting dioxanes). Due to interfering ions, the secondary 55 ion was used in quantifying methylcyclohexane for 5972-S. Occasionally the system will fail to properly integrate a given compound. In these cases (including any listed

below) a manual integration may be required. Any manual integration is noted by an "m" footnote on the quantitation report and a graphics page was included to show peak integration. Analytes which required a manual integration are summarized:

Sample	Initial Scan	Final Scan	Analyte

Blank Analysis: Method blanks were prepared using blank sand and or reagent water spiked with internal standard/DMC solution. All blanks were free of volatile organic contaminants within the specifications of the method.

Sample Analysis: All deuterated monitoring compounds and internal standard area responses were within the required acceptance criteria unless otherwise noted on forms II and VIII. All samples were analyzed within ten days of verified sample receipt.

MS/MSD Analysis: MS/MSD analyses were not required for this SDG.

Sample Calculations: All symbols are defined in section 8.3 of ALS SOP OV-EP-SOM and section 11.2 of SOM01.2. RRF = $(A_xC_{is})/(A_{is}C_x)$; Water Concentration = $(A_xI_sDF)/(V_oA_{is}\underline{RRF})$; Soil Conc.= $(A_xI_sDF)/(DW_sA_{is}\underline{RRF})$; Medium Level Conc. = $(A_xI_sAV_tDF1000)/(A_{is}\underline{RRF}V_aW_sD)$.

Miscellaneous Comments: As per the SOW, alkanes were not reported separately but rather were reported as "total alkanes." With regard to the naming of tentatively identified compounds (TICs), spectral matches above 85 percent are reported as a specific isomer unless the analyst has reason to assign a different name. Reasons include but are not limited to previous experience with the compound or an instance where the retention time clearly indicates that a computer generated match is in fact not the compound in question. A specific compound name may be assigned to more than one peak. In any case, TIC naming is tentative and it cannot be assumed that reported compounds and specific isomers are correct.

Samples which failed internal standard and or DMC recovery limits were re-analyzed. Where they again failed both analyses were reported.

I certify that this sample data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy sample data package and in the electronic data deliverable has been authorized by the laboratory manager or the manager's designee, as verified by the following signature.

6.24.15

Christopher Q. Coleman
Chemist
Volatile Organic Analysis Section

SDG Narrative
Semivolatiles Fraction

Contract Number: EPW11037
Case Number: 45316
SDG Number: F9K00
SOW Number: SOM01.2
Laboratory Name: ALS Environmental

Sample Number	ALS Sample ID	Dilution	Fraction
EPA ID	Lab ID	Dilution	Fraction
F9K00	1515725001		SVOA, SIM
F9M82	1515725002		SVOA, SIM
F9M83	1515725003		SVOA, SIM
F9M84	1515725004		SVOA, SIM
F9M85	1515725005		SVOA, SIM
F9M86	1515725006		SVOA, SIM
F9M87	1515725007		SVOA, SIM
F9M88	1515725008		SVOA, SIM
F9M89	1515725009		SVOA, SIM
F9M90	1515725010		SVOA, SIM
F9M91	1515725011		SVOA, SIM
F9M92	1515725014		SVOA, SIM
F9M93	1515725015		SVOA, SIM
F9M94	1515725016		SVOA, SIM
F9M95	1515725017		SVOA, SIM
F9M96	1515725018		SVOA, SIM
F9M97	1515725019		SVOA
F9M97	1515725019	4	SIM
F9M98	1515725020		SVOA, SIM
F9M99	1515725021		SVOA, SIM

General SDG Information: Samples were analyzed according to USEPA CLP Statement of Work SOM01.2. There are no deviations from the SOW except as noted below.

Instrumentation: Agilent GC/MS system (ID 5975-G for full scan, 5975-D for SIM)
Column: J&W Scientific DB-5ms column, 95% dimethyl-(5%)-diphenylsiloxane, nonpolar 30 m x 0.32 mm I.D. with a 0.50 µm film thickness

Sample Preparation: Samples were prepared as stated in the SOW. The ampules were prepared as per the included instructions.

Instrument Calibration: (i.e.DFTPP tunes) All tunes met ion intensity ratio requirements. All samples and standards were analyzed within the twelve hour CCV period.

Initial and Continuing Calibration Verification: All initial and continuing calibration standards met minimum response factor, RSD and %D criteria except for %D in all endings for several advisory compounds, namely hexachlorocyclopentadiene and 2,4-dinitrophenol in the full scan. For SIM analysis, ending CCV SSTD0.4P4 failed %D for pentachlorophenol. All compounds that were outside of the range for %D are known problem analytes as noted with the advisory limits set forth in the new EPA SOW for ending calibration standards. Knowing that these analytes often fail and with the documentation of this problem in the new SOW, no reanalysis was performed. The sample extracts in this SDG ranged in color from light brown to dark brown.

Blank Analysis: The extraction blank met method criteria for the SIM analysis and for full scan.

Sample Analysis: All samples passed internal standard area and DMC recovery QC criteria.

MS/MSD Analysis: An MS/MSD analysis was not requested for this SDG.

Dilutions: Any dilutions noted above were needed to bring analyte concentrations within the range of the curve or to protect the integrity of the instrument.

Miscellaneous Comments: Manual edits were made in the calibration standards and samples for a variety of miscalled peaks. Every manual integration is noted by an "m" footnote on the quantitation report, and an additional graphics page is included for each manual integration to show how the peak was integrated. In order to satisfy the requirements of Exhibit D Section 11.2.1.2 which asks for a listing of each instance of manual integration, these manual integrations are also listed in the table below.

The explanation for each of these manual integrations is that the data system did not correctly integrate the peak in its automated data evaluation procedure. More specifically, some of the more common mis-integrated peaks are described as follows: 1,4-Dioxane and 1,4-Dioxane-d8 are split peaks and need to be manually integrated. Indeno(1,2,3-c,d)pyrene elutes near dibenz(a,h)anthracene, and a hump from the 276 ion in dibenz(a,h)anthracene sometimes needs to be manually excluded from Indeno(1,2,3-c,d)pyrene. Isomers such as anthracene and benzo(a)anthracene are often called as the similar and near-eluting phenanthrene or chrysene peak. Benzo(b) and Benzo(k)fluoranthene elute very closely to each other without baseline resolution between the two peaks. The automated peak finding routine quite often integrates both peaks as if they were one, and it is necessary to manually separate the isomers. Bis(2-chloroethyl)ether sometimes needs to be manually separated from the near-eluting aniline. Caprolactam has a tail, especially at higher concentrations, that is often truncated, leaving the need to manually include the tail. Some phenolics and carbazole sometimes have the need to manually include the tailing. Acetophenone sometimes needs to be manually separated from a near-eluting 3-carbon alklyated benzene TIC peak. Benzo(ghi)perylene and dibenz(a,h)anthracene will sometimes be sliced in half by the automatic integration routine and a manual integration would be needed to include the entire peak. Perylene-d12 in the SIM analysis often needs to be manually separated from the baseline arising from benzo(a)pyrene-d12, a near-eluting and considerably larger isomer peak. Sometimes the automatic peak finding routine will simply miss a peak, making it necessary to manually include it. This was the case with all analytes not mentioned above.

For full-scan analysis:

Sample	Analyte	Scan start	Scan stop
SSTD080DL	Caprolactam	805	840
SSTD040GV	Caprolactam	803	832
SSTD080GV	Caprolactam	805	842
F9M85	Benzo(b)fluoranthene	2599	2611

For SIM analysis:

Sample	Analyte	Scan start	Scan stop
F9K00	Benzo(k)fluoranthene	2378	2387
F9M82	Benzo(k)fluoranthene	2378	2389
F9M82	Benzo(k)fluoranthene	2378	2387
F9M84	Benzo(k)fluoranthene	2379	2390
F9M82	Benzo(k)fluoranthene	2381	2389
F9M86	Benzo(k)fluoranthene	2380	2390
F9M87	Benzo(k)fluoranthene	2380	2390
F9M88	Benzo(k)fluoranthene	2380	2390
F9M89	Benzo(k)fluoranthene	2380	2389
F9M90	Benzo(k)fluoranthene	2380	2389
F9M91	Fluoranthene-d10	1626	1644
F9M91	Benzo(k)fluoranthene	2380	2392
F9M93	Benzo(k)fluoranthene	2381	2392
F9M94	Benzo(k)fluoranthene	2380	2392
F9M95	Benzo(k)fluoranthene	2381	2392
F9M96	Benzo(k)fluoranthene	2373	2383
F9M97	Benzo(k)fluoranthene	2373	2382
F9M98	Benzo(k)fluoranthene	2373	2383
F9M99	Fluoranthene-d10	1624	1640
F9M99	Benzo(k)fluoranthene	2373	2383

With regard to the naming of tentatively-identified compounds (TICs), spectral matches above 85 percent are reported as a specific isomer unless the analyst has a specific reason to assign a different name. Reasons for assigning a TIC name other than the match with the highest fit value above 85% include instances in which the analyst has previous experience with respect to a specific compound. When the first computer-generated match is a target compound and retention time information clearly indicates the TIC is in fact not the target compound, the analyst reserves the right to give a more appropriate tentative identification. There may be instances in which a specific compound name is assigned to more than one peak. Even though specific names will usually be given to TICs with spectral fits above 85%, it must be understood by the data user that TIC names are very tentative, and it cannot be assumed that the specific isomers reported are correct. One case where specific names are not given to spectral matches above 85% is for alkanes, because the SOW requires alkanes to be reported as either straight-chain, branched or cyclic and summarized as "total alkanes."

Results on the raw data are expressed in units of µg/mL (micrograms per milliliter of the solution that was injected onto the GC/MS system). Final results are calculated by the following equations:

Water:

$$\text{Concentration } \mu g/L = \frac{(A_x)\,(I_s)\,(V_t)\,(DF)\,(GPC)}{(A_{is})\,(\overline{RRF})\,(V_o)\,(V_i)}$$

Soil:

$$\text{Concentration } \mu g/Kg \text{ (Dry weight basis)} = \frac{(A_x)\,(I_s)\,(V_t)\,(DF)\,(GPC)}{(A_{is})\,(\overline{RRF})\,(V_i)\,(W_s)\,(D)}$$

where all variables are as defined in Exhibit D/SVOA Sections 11.2.1.6 and 9.3.4.1.

I certify that this Sample Data Package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy Sample Data Package and in the electronic data deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

June 25, 2015

Steven Yourstone
Chemist
Semivolatile Organic Analysis Section

SDG Narrative
Pesticides

Laboratory Name: ALS Laboratory Group
Case: 45316
SDG: F9K00
EPA Sample Numbers: F9K00, F9M82, F9M83, F9M84, F9M85, F9M86, F9M87, F9M88, F9M89, F9M90, F9M91, F9M91MS, F9M91MSD, F9M92, F9M93, F9M94, F9M95, F9M96, F9M97, F9M98, F9M99.
Contract Number: EP-W-11-037

General SDG Information: Samples were analyzed according to USEPA CLP Statement of Work SOM01.2. All above samples are billable.

Instrumentation: Hewlett Packard 5890 GC/ECD
Column: 0.32m ID X 30M RTX-CLP 0.50 micron film (primary).
0.32m ID X 30M RTX-CLP2 0.25 micron film (confirmation).

Sample Preparation: All samples were extracted within sample preparation hold times.

Initial Calibration: All requirements for initial calibration were met.

Continuing Calibration: All requirements for continuing calibration were met.

Sample Analysis: All samples were analyzed within SOW specified hold times.

Dilutions: No dilutions were performed.

Blank Analysis: No analytes were detected in the method blank above the CRQLs.

LCS Analysis: All recoveries were within established limits.

MS/MSD Analysis: Two results were outside established limits.

Surrogates: All samples passed SOW surrogate criteria.

Miscellaneous Comments: None.

This chart summarizes the amount (ng) of each compound in each type of standard:

	RESC##	PEM##	TOXAPH1##	TOXAPH2##	TOXAPH3##	TOXAPH4##	TOXAPH5##	INDC1##	INDC2##	INDC3##	INDC4##	INDC5##	PIBLK##
alpha-BHC	0.04	0.02						0.01	0.02	0.04	0.08	0.20	
beta-BHC	0.04	0.02						0.01	0.02	0.04	0.08	0.20	
delta-BHC	0.04							0.01	0.02	0.04	0.08	0.20	
gamma-BHC	0.04	0.02						0.01	0.02	0.04	0.08	0.20	
Heptachlor	0.04							0.01	0.02	0.04	0.08	0.20	
Aldrin	0.04							0.01	0.02	0.04	0.08	0.20	
Heptachlor epoxide	0.04							0.01	0.02	0.04	0.08	0.20	
Endosulfan I	0.04							0.01	0.02	0.04	0.08	0.20	
Dieldrin	0.08							0.02	0.04	0.08	0.16	0.40	
4,4'-DDE	0.08							0.02	0.04	0.08	0.16	0.40	
Endrin	0.08	0.1						0.02	0.04	0.08	0.16	0.40	
Endosulfan II	0.08							0.02	0.04	0.08	0.16	0.40	
4,4'-DDD	0.08							0.02	0.04	0.08	0.16	0.40	
Endosulfan sulfate	0.08							0.02	0.04	0.08	0.16	0.40	
4,4'-DDT	0.08	0.2						0.02	0.04	0.08	0.16	0.40	
Methoxychlor	0.40	0.5						0.10	0.2	0.4	0.8	2.0	
Endrin ketone	0.08							0.02	0.04	0.08	0.16	0.40	
Endrin aldehyde	0.08							0.02	0.04	0.08	0.16	0.40	
alpha-Chlordane	0.04							0.01	0.02	0.04	0.08	0.20	
gamma-Chlordane	0.04							0.01	0.02	0.04	0.08	0.20	
Toxaphene			1	2	4	8	20						
Tetrachloro-m-xylene	0.04	0.04	0.01	0.02	0.04	0.08	0.20	0.01	0.02	0.04	0.08	0.20	0.04
Decachlorobiphenyl	0.08	0.04	0.02	0.04	0.08	0.16	0.40	0.02	0.04	0.08	0.16	0.40	0.08

Sample equation for Endrin in PLCSS1 (1):

$$\text{Result ug/kg} = \frac{\text{(Area response of analyte)(Extract FV uL after GPC)(Dilution Factor)(GPC factor)}}{\text{(Ave CF)(uL injected)(grams of Sample)((100-\%moisture)/100))}}$$

$$2.55 \text{ ug/kg} = \frac{(15627)(5000 \text{ uL})(1)(10000/5000)}{(1020000)(2 \text{ uL})(30 \text{ g})(1)}$$

I certify that this Sample Data Package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the electronic data deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

06/24/15

Steven J. Sagers — Date
Pesticide Chemist

DATA CHEM LABORATORIES, INC.

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

ALS

SDG Narrative
Aroclors

Laboratory Name: ALS Environmental
Case: 45316
SDG: F9K00
EPA Sample Numbers: F9K00, F9M82, F9M83, F9M84, F9M85, F9M86, F9M87, F9M88, F9M89, F9M90, F9M91, F9M91MS, F9M91MSD, F9M92, F9M93, F9M94, F9M95, F9M96, F9M97, F9M98, F9M99.
Contract Number: EP-W-11-037

General SDG Information: Samples were analysed according to USEPA CLP Statement of Work SOM01.2. All above samples are billable.

Instrumentation: Hewlett Packard 5890 GC/ECD
Column: 0.32m ID X 30M RTX-CLP 0.50 micron film (primary).
0.32m ID X 30M RTX-CLP2 0.25 micron film (confirmation).

Sample Preparation: All samples were extracted within SOW specified hold times.

Initial Calibration: All requirements for initial calibration were met.

Continuing Calibration: All requirements for continuing calibration were met.

Sample Analysis: All samples were analysed within SOW specified hold times.

Dilutions: None.

Blank Analysis: No analytes were detected in the method blank above the CRQL.

LCS Analysis: All recoveries were within established limits.

MS/MSD Analysis: All recoveries were within established limits.

Surrogates: All samples passed SOW surrogate criteria.

Miscellaneous Comments: None.

This chart summarizes the amount (ng) of each compound in each type of standard:

	AR####1##	AR####2##	AR####3##	AR####4##	AR####5##	AIBLK##
AR####	0.2	0.4	0.8	1.6	3.2	
Tetrachloro-m-xylene	0.01	0.02	0.04	0.08	0.16	0.04
Decachlorobiphenyl	0.02	0.04	0.08	0.16	0.32	0.08

Equation for Aroclors in soil samples (EQ. 9):

EQ. 9 Concentration Calculation for Soil Samples

$$\text{Concentration } \mu g/Kg \text{ (Dry weight basis)} = \frac{(A_x)\ (V_t)\ (DF)\ (GPC)}{(\overline{CF})\ (V_i)\ (W_s)\ (D)}$$

Where,

A_x = Area or height of the peak for the compound to be measured.

$\overline{CF}$ = Mean Calibration Factor from the specific five-point calibration (area/ng).

V_t = Volume of the concentrated extract in µL. (If GPC is not performed, then V_t = 10000 µL. If GPC is performed, then $V_t = V_{out}$).

V_i = Volume of extract injected in µL. (If a single injection is made onto two columns, use one half the volume in the syringe as the volume injected onto each column.)

$$D = \frac{100 - \%Moisture}{100}$$

W_s = Weight of sample extracted in g.

DF = Dilution Factor. The DF for analysis of soil/sediment samples by this method is defined as follows:

$$\frac{\mu L \text{ most concentrated extract used to make dilution} + \mu L \text{ clean solvent}}{\mu L \text{ most concentrated extract used to make dilution}}$$

If no dilution is performed, DF = 1.0.

Equation for Aroclors in water samples (EQ. 7):

EQ. 7 Concentration Calculation for Water Samples

$$\text{Concentration } \mu g/L = \frac{(A_x)\,(V_t)\,(DF)\,(GPC)}{(\overline{CF})\,(V_o)\,(V_i)}$$

Where,

A_x = Area or height of the peak for the compound to be measured.

$\overline{CF}$ = Mean Calibration Factor from the specific five-point calibration (area/ng).

V_o = Volume of water extracted in mL (Note: for instrument and sulfur blanks assume a volume of 1000 mL).

V_i = Volume of extract injected in µL. (If a single injection is made onto two columns, use one half the volume in the syringe as the volume injected onto each column).

V_t = Volume of the concentrated extract in µL. (If GPC is not performed, then V_t = 10000 µL. If GPC is performed, then $V_t = V_{out}$).

DF = Dilution Factor. The DF for analysis of water samples by this method is defined as follows:

$$\frac{\text{µL most concentrated extract used to make dilution + µL clean solvent}}{\text{µL most concentrated extract used to make dilution}}$$

If no dilution is performed, DF = 1.0.

$GPC = \frac{V_{in}}{V_{out}}$ = GPC factor. (If no GPC is performed, GPC = 1.0).

V_{in} = Volume of extract loaded onto GPC column.

V_{out} = Volume of extracted collected after GPC cleanup.

I certify that this Sample Data Package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the electronic data deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

06/202/15

Nadjla Borges Date
Chemist

Sample Delivery Group (SDG)
Cover Sheet

SDG Number: F9K00

☒ ARO ☒ PEST ☒ BNA ☒ BNASIM ☐ VT ☐ VOASIM ☒ VLM

Laboratory Name: ALS Laboratory Group (SLC) Laboratory Code: DATAC

Contract No.: EPW11037 Case No.: 45316

Analysis Price: N/A SDG Turnaround: 21

Modified Analysis Requested: NO Program: SOM01.2

Modification Reference No.: N/A

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) F9K00	7) F9M87	13) F9M93	19) F9M99
2) F9M82	8) F9M88	14) F9M94	20)
3) F9M83	9) F9M89	15) F9M95	21)
4) F9M84	10) F9M90	16) F9M96	22)
5) F9M85	11) F9M91	17) F9M97	23)
6) F9M86	12) F9M92	18) F9M98	24)

F9K00	F9M99
First Sample in SDG	Last Sample in SDG
06/05/15	06/05/15
First Sample Receipt Date	Last Sample Receipt Date

Note: *There are a maximum of 20 field samples (excluding PE samples) in an SDG. Attach the TR/COC records to this form in alphanumeric order (the order listed above on this form).*

Signature: Meredith Edwards Date: 6/6/2015 4:03:40 PM

1515725

USEPA CLP COC (LAB COPY)

DateShipped: 6/4/2015
CarrierName: FedEx
AirbillNo:773754096490

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #:

F9K00

No: 6-060415-150509-0106
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-019-004-06-51	F9K00	Soil/ START	Composite	SVOA/SVOASIM(21)	1810 (Ice) (2)	021	06/04/2015 11:00	Good
WO-019-005-00-51	F9M85	Soil/ START	Composite	SVOA/SVOASIM(21)	1735 (Ice) (2)	021	06/04/2015 08:35	
WO-019-005-00-52	F9M86	Soil/ START	Composite	SVOA/SVOASIM(21)	1740 (Ice) (2)	021	06/04/2015 08:40	
WO-019-005-06-51	F9M88	Soil/ START	Composite	SVOA/SVOASIM(21)	1750 (Ice) (2)	021	06/04/2015 09:00	
WO-019-007-12-51	F9M94	Soil/ START	Composite	SVOA/SVOASIM(21)	1780 (Ice) (2)	021	06/04/2015 09:50	
WO-019-007-24-51	F9M95	Soil/ START	Composite	SVOA/SVOASIM(21)	1785 (Ice) (2)	021	06/04/2015 09:55	
WO-019-004-00-51	F9M96	Soil/ START	Composite	SVOA/SVOASIM(21)	1790 (Ice) (2)	021	06/04/2015 09:40	

Special Instructions: No Lab QC on SVOA Samples

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SVOA/SVOASIM=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
7/samples	Weston	6/4/15 2100	FedEx	6/4/15 2100	
	FedEx	06/05/2015 10:09	DATAC	06/05/2015 10:09	Good

1515725

USEPA CLP COC (LAB COPY)

DateShipped: 6/4/2015
CarrierName: FedEx
AirbillNo: 773754108979

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #:

F9K00

No: 6-060415-155716-0109

Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-019-003-00-51	F9M82	Soil/ START	Composite	SVOA/SVOASIM(21)	1720 (Ice) (2)	021	06/04/2015 08:10	Good
WO-019-003-00-52	F9M83	Soil/ START	Composite	SVOA/SVOASIM(21)	1725 (Ice) (2)	021	06/04/2015 08:15	
WO-019-003-06-51	F9M84	Soil/ START	Composite	SVOA/SVOASIM(21)	1730 (Ice) (2)	021	06/04/2015 08:30	
WO-019-005-12-51	F9M89	Soil/ START	Composite	SVOA/SVOASIM(21)	1755 (Ice) (2)	021	06/04/2015 09:05	
WO-019-005-24-51	F9M90	Soil/ START	Composite	SVOA/SVOASIM(21)	1760 (Ice) (2)	021	06/04/2015 09:10	

Special Instructions: No Lab QC SVOA Samples	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: SVOA/SVOASIM=CLP SVOA/SVOASIM	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	[signature] Weston	6/4/15 @ 2100	FedEx	6/4/15 @ 2100	
	FedEx	06/05/2015 10:09	[signature] DATAL	06/05/2015 10:09	Good

USEPA CLP COC (LAB COPY)

DateShipped: 6/4/2015
CarrierName: FedEx
AirbillNo: 773754093772

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #: F9K00

No: 6-060415-144146-0104

Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-019-007-00-51	F9M87	Soil/ START	Composite	SVOA/SVOASIM(21)	1745 (Ice) (2)	021	06/04/2015 09:05	Good
WO-019-008-00-51	F9M91	Soil/ START	Composite	SVOA/SVOASIM(21)	1765 (Ice) (2)	021	06/04/2015 09:30	
WO-019-006-00-51	F9M92	Soil/ START	Composite	SVOA/SVOASIM(21)	1770 (Ice) (2)	021	06/04/2015 09:35	
WO-019-007-06-51	F9M93	Soil/ START	Composite	SVOA/SVOASIM(21)	1775 (Ice) (2)	021	06/04/2015 09:45	
WO-019-006-06-51	F9M97	Soil/ START	Composite	SVOA/SVOASIM(21)	1795 (Ice) (2)	021	06/04/2015 10:25	
WO-019-008-06-51	F9M98	Soil/ START	Composite	SVOA/SVOASIM(21)	1800 (Ice) (2)	021	06/04/2015 10:30	
WO-019-008-12-51	F9M99	Soil/ START	Composite	SVOA/SVOASIM(21)	1805 (Ice) (2)	021	06/04/2015 10:35	SDG Final Sample

Special Instructions: No Lab QC SVOA Samples

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SVOA/SVOASIM=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
11 samples	Weston	6/4/15 2100	Fedex	6/4/15 2100	
	FedEx	06/05/2015 10:09	DATAC	06/05/2015 10:09	Good

CLP

USEPA CLP COC (LAB COPY)

DateShipped: 6/4/2015
CarrierName: FedEx
AirbillNo: 773754101378

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #:

F9K00

No: 6-060415-151647-0107

Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-019-004-06-51	F9K00	Soil/ START	Composite	PEST+ARO(21)	1811 (Ice) (2)	021	06/04/2015 11:00	Good
WO-019-005-00-51	F9M85	Soil/ START	Composite	PEST+ARO(21)	1736 (Ice) (2)	021	06/04/2015 08:35	
WO-019-005-00-52	F9M86	Soil/ START	Composite	PEST+ARO(21)	1741 (Ice) (2)	021	06/04/2015 08:40	
WO-019-005-06-51	F9M88	Soil/ START	Composite	PEST+ARO(21)	1751 (Ice) (2)	021	06/04/2015 09:00	
WO-019-007-12-51	F9M94	Soil/ START	Composite	PEST+ARO(21)	1781 (Ice) (2)	021	06/04/2015 09:50	
WO-019-007-24-51	F9M95	Soil/ START	Composite	PEST+ARO(21)	1786 (Ice) (2)	021	06/04/2015 09:55	
WO-019-004-00-51	F9M96	Soil/ START	Composite	PEST+ARO(21)	1791 (Ice) (2)	021	06/04/2015 09:40	

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: PEST+ARO=CLP Pest + ARO	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	[signature] Weston	6/4/15 @ 2100	FedEx	6/4/15 @ 2100	
	FedEx	06/05/2015 10:09	[signature] DATAC	06/05/2015 10:09	Good

USEPA CLP COC (LAB COPY)
DateShipped: 6/4/2015
CarrierName: FedEx
AirbillNo: 773754112147

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #:

F9K00

No: 6-060415-160306-0110
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-019-003-00-51	F9M82	Soil/ START	Composite	PEST+ARO(21)	1721 (Ice) (2)	021	06/04/2015 08:10	Good
WO-019-003-00-52	F9M83	Soil/ START	Composite	PEST+ARO(21)	1726 (Ice) (2)	021	06/04/2015 08:15	
WO-019-003-06-51	F9M84	Soil/ START	Composite	PEST+ARO(21)	1731 (Ice) (2)	021	06/04/2015 08:30	
WO-019-005-12-51	F9M89	Soil/ START	Composite	PEST+ARO(21)	1756 (Ice) (2)	021	06/04/2015 09:05	
WO-019-005-24-51	F9M90	Soil/ START	Composite	PEST+ARO(21)	1761 (Ice) (2)	021	06/04/2015 09:10	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: PEST+ARO=CLP Pest + ARO

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
5/samples		6/4/15 2100	Fedex	6/4/15 2100	
	FedEx	06/05/2015 10:09	DATAC	06/05/2015 10:09	Good

ES&S

USEPA CLP COC (LAB COPY)

DateShipped: 6/4/2015
CarrierName: FedEx
AirbillNo: 773754090285

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #: F9K00

No: 6-060415-143436-0103

Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-019-007-00-51	F9M87	Soil/ START	Composite	PEST+ARO(21)	1746 (Ice) (2)	021	06/04/2015 09:05	Good
WO-019-008-00-51	F9M91	Soil/ START	Composite	PEST+ARO(21)	1766 (Ice) (4)	021	06/04/2015 09:30	
WO-019-006-00-51	F9M92	Soil/ START	Composite	PEST+ARO(21)	1771 (Ice) (2)	021	06/04/2015 09:35	
WO-019-007-06-51	F9M93	Soil/ START	Composite	PEST+ARO(21)	1776 (Ice) (2)	021	06/04/2015 09:45	
WO-019-006-06-51	F9M97	Soil/ START	Composite	PEST+ARO(21)	1796 (Ice) (2)	021	06/04/2015 10:25	
WO-019-008-06-51	F9M98	Soil/ START	Composite	PEST+ARO(21)	1801 (Ice) (2)	021	06/04/2015 10:30	
WO-019-008-12-51	F9M99	Soil/ START	Composite	PEST+ARO(21)	1806 (Ice) (2)	021	06/04/2015 10:35	SPG Fund Sample

Sample(s) to be used for Lab QC: WO-019-008-00-51 Tag 1766	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: PEST+ARO=CLP Pest + ARO	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	[signature] Weston	6/4/15 @ 2100	FedEx	6/4/15 @ 2100	
	FedEx	06/05/2015 10:09	[signature] DATAC	06/05/2015 10:09	Good

USEPA CLP COC (LAB COPY)
DateShipped: 6/4/2015
CarrierName: FedEx
AirbillNo: 773754114460

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #:

F9K00

No: 6-060415-161725-0111
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-019-004-06-51	F9K00	Soil/ START	Composite	VOA(21)	1809 (Ice) (3)	021	06/04/2015 11:00	Good
WO-019-003-44-20150604	F9K01	Water/ START	Grab	VOA(21)	1813 (HCl) (3)	FieldQC	06/04/2015 14:55	
WO-019-003-00-51	F9M82	Soil/ START	Composite	VOA(21)	1719 (Ice) (3)	021	06/04/2015 08:10	
WO-019-003-00-52	F9M83	Soil/ START	Composite	VOA(21)	1724 (Ice) (3)	021	06/04/2015 08:15	
WO-019-003-06-51	F9M84	Soil/ START	Composite	VOA(21)	1729 (Ice) (3)	021	06/04/2015 08:30	
WO-019-005-00-51	F9M85	Soil/ START	Composite	VOA(21)	1734 (Ice) (3)	021	06/04/2015 08:35	
WO-019-005-00-52	F9M86	Soil/ START	Composite	VOA(21)	1739 (Ice) (3)	021	06/04/2015 08:40	
WO-019-007-00-51	F9M87	Soil/ START	Composite	VOA(21)	1744 (Ice) (3)	021	06/04/2015 09:05	
WO-019-005-06-51	F9M88	Soil/ START	Composite	VOA(21)	1749 (Ice) (3)	021	06/04/2015 09:00	
WO-019-005-12-51	F9M89	Soil/ START	Composite	VOA(21)	1754 (Ice) (3)	021	06/04/2015 09:05	

Special Instructions: No Lab QC VOA Samples	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: VOA=CLP VOA	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
20/samples	[signature] Weston	6/4/15 2100	Fedex	6/4/15 2100	
	FedEx	06/05/2015 10:09	[signature] DATAC	06/05/2015 10:09	Good

USEPA CLP COC (LAB COPY)
DateShipped: 6/4/2015
CarrierName: FedEx
AirbillNo: 773754114460

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #:

F9K00

No: 6-060415-161725-0111
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-019-005-24-51	F9M90	Soil/ START	Composite	VOA(21)	1759 (Ice) (3)	021	06/04/2015 09:10	Good
WO-019-008-00-51	F9M91	Soil/ START	Composite	VOA(21)	1764 (Ice) (3)	021	06/04/2015 09:30	
WO-019-006-00-51	F9M92	Soil/ START	Composite	VOA(21)	1769 (Ice) (3)	021	06/04/2015 09:35	
WO-019-007-06-51	F9M93	Soil/ START	Composite	VOA(21)	1774 (Ice) (3)	021	06/04/2015 09:45	
WO-019-007-12-51	F9M94	Soil/ START	Composite	VOA(21)	1779 (Ice) (3)	021	06/04/2015 09:50	
WO-019-007-24-51	F9M95	Soil/ START	Composite	VOA(21)	1784 (Ice) (3)	021	06/04/2015 09:55	
WO-019-004-00-51	F9M96	Soil/ START	Composite	VOA(21)	1789 (Ice) (3)	021	06/04/2015 09:40	
WO-019-006-06-51	F9M97	Soil/ START	Composite	VOA(21)	1794 (Ice) (3)	021	06/04/2015 10:25	
WO-019-008-06-51	F9M98	Soil/ START	Composite	VOA(21)	1799 (Ice) (3)	021	06/04/2015 10:30	
WO-019-008-12-51	F9M99	Soil/ START	Composite	VOA(21)	1804 (Ice) (3)	021	06/04/2015 10:35	SDH Final Sample

Special Instructions: No Lab QC VOA Samples	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: VOA=CLP VOA	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
20 samples	[signature] Weston	6/4/15 2100	Fedex	6/4/15 2100	
	FedEx	06/05/2015 10:09	[signature] DATAC	06/05/2015 10:09	Good

USEPA CLP COC (LAB COPY)

DateShipped: 6/4/2015
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #:

F9K00

No: 6-060415-162340-0112

Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-019-004-06-51	F9K00	Soil/ START	Composite	CLP Moisture(21)	1812 (Ice) (1)	021	06/04/2015 11:00	Good
WO-019-003-00-51	F9M82	Soil/ START	Composite	CLP Moisture(21)	1722 (Ice) (1)	021	06/04/2015 08:10	
WO-019-003-00-52	F9M83	Soil/ START	Composite	CLP Moisture(21)	1727 (Ice) (1)	021	06/04/2015 08:15	
WO-019-003-06-51	F9M84	Soil/ START	Composite	CLP Moisture(21)	1732 (Ice) (1)	021	06/04/2015 08:30	
WO-019-005-00-51	F9M85	Soil/ START	Composite	CLP Moisture(21)	1737 (Ice) (1)	021	06/04/2015 08:35	
WO-019-005-00-52	F9M86	Soil/ START	Composite	CLP Moisture(21)	1742 (Ice) (1)	021	06/04/2015 08:40	
WO-019-007-00-51	F9M87	Soil/ START	Composite	CLP Moisture(21)	1747 (Ice) (1)	021	06/04/2015 09:05	
WO-019-005-06-51	F9M88	Soil/ START	Composite	CLP Moisture(21)	1752 (Ice) (1)	021	06/04/2015 09:00	
WO-019-005-12-51	F9M89	Soil/ START	Composite	CLP Moisture(21)	1757 (Ice) (1)	021	06/04/2015 09:05	
WO-019-005-24-51	F9M90	Soil/ START	Composite	CLP Moisture(21)	1762 (Ice) (1)	021	06/04/2015 09:10	

Special Instructions:	**Shipment for Case Complete? Y**
	Samples Transferred From Chain of Custody #

Analysis Key: CLP Moisture=CLP % Moisture

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
19/samples	[signature] Weston	6/4/15 2100	FedEx	6/4/15 2100	
	FedEx	06/05/2015 10:09	[signature] DATAC	06/05/2015 10:09	Good

USEPA CLP COC (LAB COPY)

DateShipped: 6/4/2015
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #:

F9K00

No: 6-060415-162340-0112

Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-019-008-00-51	F9M91	Soil/ START	Composite	CLP Moisture(21)	1767 (Ice) (1)	021	06/04/2015 09:30	Good
WO-019-006-00-51	F9M92	Soil/ START	Composite	CLP Moisture(21)	1772 (Ice) (1)	021	06/04/2015 09:35	
WO-019-007-06-51	F9M93	Soil/ START	Composite	CLP Moisture(21)	1777 (Ice) (1)	021	06/04/2015 09:45	
WO-019-007-12-51	F9M94	Soil/ START	Composite	CLP Moisture(21)	1782 (Ice) (1)	021	06/04/2015 09:50	
WO-019-007-24-51	F9M95	Soil/ START	Composite	CLP Moisture(21)	1787 (Ice) (1)	021	06/04/2015 09:55	
WO-019-004-00-51	F9M96	Soil/ START	Composite	CLP Moisture(21)	1792 (Ice) (1)	021	06/04/2015 09:40	
WO-019-006-06-51	F9M97	Soil/ START	Composite	CLP Moisture(21)	1797 (Ice) (1)	021	06/04/2015 10:25	
WO-019-008-06-51	F9M98	Soil/ START	Composite	CLP Moisture(21)	1802 (Ice) (1)	021	06/04/2015 10:30	
WO-019-008-12-51	F9M99	Soil/ START	Composite	CLP Moisture(21)	1807 (Ice) (1)	021	06/04/2015 10:35	Dup Field Sample

Special Instructions:

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: CLP Moisture=CLP % Moisture

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
19/samples	Weston	6/4/15 2400	Fedex	6/4/15 2400	
	FedEx	06/05/2015 10:09	DATAC	06/05/2015 10:09	Good

2C - FORM II VOA-3
SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	F9K00	76	85	64	110	95	108	105
02	F9M82	82	89	65	126	95	113	106
03	F9M83	85	93	69	75	96	104	120
04	F9M83RE	82	90	68	69	96	102	119
05	F9M84	78	85	63	81	93	99	101
06	F9M85	81	87	66	107	94	100	102
07	F9M86	80	87	66	97	95	100	101
08	F9M87	82	89	67	75	96	101	102
09	F9M88	80	88	66	81	97	102	108
10	F9M89	81	88	66	100	94	99	99
11	F9M90	83	87	67	68	94	97	101
12	F9M91	82	89	66	80	97	113	107
13	F9M92	89	97	71	58	100	107	126 *
14	F9M92RE	78	85	65	51	96	101	121 *
15	F9M93	88	95	69	80	100	111	111
16	F9M94	84	91	67	91	99	108	103
17	F9M95	86	91	68	69	98	102	106
18	F9M96	80	89	68	94	99	106	107
19	F9M97	76	86	65	99	94	102	107
20	F9M98	72	80	62	88	92	98	98
21	F9M99	80	88	66	84	96	101	105
22	VBLKS1	86	88	69	92	90	92	100
23	VBLKS2	94	95	73	119	95	102	103
24	VHBLKS1	68	76	59	134	90	104	92
25								
26								
27								
28								
29								
30								

	QC LIMITS
VDMC1 (VCL) = Vinyl chloride-d3	(68-122)
VDMC2 (CLA) = Chloroethane-d5	(61-130)
VDMC3 (DCE) = 1,1-Dichloroethene-d2	(45-132)
VDMC4 (BUT) = 2-Butanone-d5	(20-182)
VDMC5 (CLF) = Chloroform-d	(72-123)
VDMC6 (DCA) = 1,2-Dichloroethane-d4	(79-122)
VDMC7 (BEN) = Benzene-d6	(80-121)

Column to be used to flag recovery values
* Values outside of contract required QC limits

2D - FORM II VOA-4
SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	F9K00	107	98	107	124	136	117	101	0
02	F9M82	108	101	117	141	161 *	121	101	1
03	F9M83	120	110	105	99	128	95	90	0
04	F9M83RE	119	107	96	89	127	101	94	0
05	F9M84	102	100	95	91	118	100	96	0
06	F9M85	99	99	104	112	118	102	99	0
07	F9M86	99	99	103	105	116	102	97	0
08	F9M87	100	99	90	86	113	102	97	0
09	F9M88	106	103	94	93	116	103	98	0
10	F9M89	96	97	99	99	97	99	101	0
11	F9M90	98	99	96	74	94	101	98	0
12	F9M91	109	101	98	83	150	127	100	0
13	F9M92	125 *	113	77	72	131	92	91	2
14	F9M92RE	127 *	109	62 *	59	124	94	92	3
15	F9M93	113	101	89	96	139	116	101	0
16	F9M94	104	98	100	102	121	112	102	0
17	F9M95	104	100	96	79	101	101	99	0
18	F9M96	105	100	105	120	127	101	95	0
19	F9M97	107	102	99	110	123	101	95	0
20	F9M98	97	98	97	97	113	97	94	0
21	F9M99	106	101	94	91	118	102	99	0
22	VBLKS1	94	100	100	102	97	93	99	0
23	VBLKS2	99	103	110	122	119	109	105	0
24	VHBLKS1	94	93	110	135	139	112	103	0
25									
26									
27									
28									
29									
30									

	QC LIMITS
VDMC8 (DPA) = 1,2-Dichloropropane-d6	(74-124)
VDMC9 (TOL) = Toluene-d8	(78-121)
VDMC10 (TDP) = trans-1,3-Dichloropropene-d4	(72-130)
VDMC11 (HEX) = 2-Hexanone-d5	(17-184)
VDMC12 (DXE) = 1,4-Dioxane-d8	(50-150)
VDMC13 (TCA) = 1,1,2,2-Tetrachloroethane-d2	(56-161)
VDMC14 (DCZ) = 1,2-Dichlorobenzene-d4	(70-131)

Column to be used to flag recovery values
* Values outside of contract required QC limits

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab File ID: SV27BLK Lab Sample ID: 451272

Instrument ID: 5972-S

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 06/11/2015

Level: (TRACE or LOW/MED) LOW Time Analyzed: 17:27

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	F9M82	1515725002	SV29C002	18:31
02	F9M83	1515725003	SV30C003	19:02
03	F9M84	1515725004	SV31C004	19:32
04	F9M85	1515725005	SV32C005	20:03
05	F9M86	1515725006	SV33C006	20:33
06	F9M87	1515725007	SV34C007	21:04
07	F9M88	1515725008	SV35C008	21:34
08	F9M89	1515725009	SV36C009	22:04
09	F9M90	1515725010	SV37C010	22:34
10	F9M91	1515725011	SV38C011	23:04
11	F9M92	1515725014	SV39C014	23:35
12	F9M93	1515725015	SV40C015	00:05
13	F9M94	1515725016	SV41C016	00:35
14	F9M95	1515725017	SV42C017	01:05
15				
16				
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20				
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28				
29				
30				

COMMENTS:

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKS2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab File ID: SV47BLK Lab Sample ID: 451273

Instrument ID: 5972-S

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 06/13/2015

Level: (TRACE or LOW/MED) LOW Time Analyzed: 11:25

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	F9M96	1515725018	SV48C018	11:57
02	F9M97	1515725019	SV49C019	12:28
03	F9M98	1515725020	SV50C020	12:59
04	F9M99	1515725021	SV51C021	13:30
05	F9K00	1515725001	SV52R001	14:01
06	F9M83RE	1515725003RE	SV53R003	14:33
07	F9M92RE	1515725014RE	SV54R014	15:04
08	VHBLKS1	451274	SV55HBLK	15:36
09				
10				
11				
12				
13				
14				
15				
16				
17				
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29				
30				

COMMENTS:

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFBSS

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab File ID: SU31BFB BFB Injection Date: 06/04/2015

Instrument ID: 5972-S BFB Injection Time: 19:46

GC Column: DB624 ID: 0.53 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	32.6
75	30.0 - 80.0% of mass 95	65.3
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% of mass 95	64.4
175	5.0 - 9.0% of mass 174	5.1 (7.9) 1
176	95.0 - 101% of mass 174	62.1 (96.5) 1
177	5.0 - 9.0% of mass 176	4.3 (7.0) 2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005SS	VSTD005SS	SU32S05	06/04/2015	20:18
02	VSTD010SS	VSTD010SS	SU33S10	06/04/2015	20:49
03	VSTD050SS	VSTD050SS	SU34S50	06/04/2015	21:19
04	VSTD100SS	VSTD100SS	SU35S100	06/04/2015	21:49
05	VSTD200SS	VSTD200SS	SU36S200	06/04/2015	22:20
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.: BFBS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab File ID: SV25BFB BFB Injection Date: 06/11/2015

Instrument ID: 5972-S BFB Injection Time: 16:25

GC Column: DB624 ID: 0.53 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	32.4
75	30.0 - 80.0% of mass 95	62.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120% of mass 95	62.1
175	5.0 - 9.0% of mass 174	5.0 (8.0) 1
176	95.0 - 101% of mass 174	61.7 (99.3) 1
177	5.0 - 9.0% of mass 176	4.0 (6.5) 2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050S1	VSTD050S1	SV26S50	06/11/2015	16:56
02	VBLKS1	451272	SV27BLK	06/11/2015	17:27
03	F9M82	1515725002	SV29C002	06/11/2015	18:31
04	F9M83	1515725003	SV30C003	06/11/2015	19:02
05	F9M84	1515725004	SV31C004	06/11/2015	19:32
06	F9M85	1515725005	SV32C005	06/11/2015	20:03
07	F9M86	1515725006	SV33C006	06/11/2015	20:33
08	F9M87	1515725007	SV34C007	06/11/2015	21:04
09	F9M88	1515725008	SV35C008	06/11/2015	21:34
10	F9M89	1515725009	SV36C009	06/11/2015	22:04
11	F9M90	1515725010	SV37C010	06/11/2015	22:34
12	F9M91	1515725011	SV38C011	06/11/2015	23:04
13	F9M92	1515725014	SV39C014	06/11/2015	23:35
14	F9M93	1515725015	SV40C015	06/12/2015	00:05
15	F9M94	1515725016	SV41C016	06/12/2015	00:35
16	F9M95	1515725017	SV42C017	06/12/2015	01:05
17	VSTD050S2	VSTD050S2	SV43F50	06/12/2015	01:36
18					
19					
20					
21					
22					

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFBS2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab File ID: SV45BFB BFB Injection Date: 06/13/2015

Instrument ID: 5972-S BFB Injection Time: 10:24

GC Column: DB624 ID: 0.53 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	31.9
75	30.0 - 80.0% of mass 95	62.9
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% of mass 95	63.0
175	5.0 - 9.0% of mass 174	4.8 (7.6) 1
176	95.0 - 101% of mass 174	62.2 (98.7) 1
177	5.0 - 9.0% of mass 176	4.2 (6.7) 2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050S3	VSTD050S3	SV46S50	06/13/2015	10:54
02	VBLKS2	451273	SV47BLK	06/13/2015	11:25
03	F9M96	1515725018	SV48C018	06/13/2015	11:57
04	F9M97	1515725019	SV49C019	06/13/2015	12:28
05	F9M98	1515725020	SV50C020	06/13/2015	12:59
06	F9M99	1515725021	SV51C021	06/13/2015	13:30
07	F9K00	1515725001	SV52R001	06/13/2015	14:01
08	F9M83RE	1515725003RE	SV53R003	06/13/2015	14:33
09	F9M92RE	1515725014RE	SV54R014	06/13/2015	15:04
10	VHBLKS1	451274	SV55HBLK	06/13/2015	15:36
11	VSTD050S4	VSTD050S4	SV56F50	06/13/2015	16:07
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column: DB624 ID: 0.53 (mm) Init. Calib. Date(s): 06/04/2015 06/04/2015

EPA Sample No.(VSTD#####): VSTD050S1 Date Analyzed: 06/11/2015

Lab File ID (Standard): SV26S50 Time Analyzed: 16:56

Instrument ID: 5972-S Heated Purge: (Y/N) Y

		IS1 (CBZ) AREA	#	RT	#	IS2 (DFB) AREA	#	RT	#	IS3 (DCB) AREA	#	RT	#
	12 HOUR STD	1303298		12.87		1573580		8.88		765425		16.21	
	UPPER LIMIT	2606596		13.37		3147160		9.38		1530850		16.71	
	LOWER LIMIT	651649		12.37		786790		8.38		382713		15.71	
	EPA SAMPLE NO.												
01	VBLKS1	1209038		12.87		1555622		8.87		681447		16.23	
02	F9M82	1007862		12.86		1352547		8.87		490041		16.22	
03	F9M83	899836		12.87		1371899		8.87		318844	*	16.22	
04	F9M84	1179342		12.87		1559560		8.88		523514		16.21	
05	F9M85	1166841		12.87		1514183		8.88		584806		16.22	
06	F9M86	1099972		12.87		1411122		8.89		512467		16.22	
07	F9M87	1084897		12.87		1416630		8.88		533822		16.22	
08	F9M88	1014153		12.86		1373246		8.88		435941		16.22	
09	F9M89	1135108		12.86		1425222		8.89		629741		16.22	
10	F9M90	1097878		12.86		1416566		8.88		592614		16.22	
11	F9M91	959776		12.85		1298209		8.86		466976		16.21	
12	F9M92	805932		12.84		1266488		8.87		264961	*	16.20	
13	F9M93	885077		12.85		1232511		8.86		415213		16.20	
14	F9M94	973831		12.85		1265072		8.86		501994		16.21	
15	F9M95	965886		12.85		1284606		8.86		449706		16.20	
16													
17													
18													
19													
20													
21													
22													

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column: DB624 ID: 0.53 (mm) Init. Calib. Date(s): 06/04/2015 06/04/2015

EPA Sample No.(VSTD#####): VSTD050S3 Date Analyzed: 06/13/2015

Lab File ID (Standard): SV46S50 Time Analyzed: 10:54

Instrument ID: 5972-S Heated Purge: (Y/N) Y

		IS1 (CBZ) AREA	#	RT	#	IS2 (DFB) AREA	#	RT	#	IS3 (DCB) AREA	#	RT	#
	12 HOUR STD	1404726		12.85		1709511		8.86		828652		16.20	
	UPPER LIMIT	2809452		13.35		3419022		9.36		1657304		16.70	
	LOWER LIMIT	702363		12.35		854756		8.36		414326		15.70	
	EPA SAMPLE NO.												
01	VBLKS2	1365093		12.86		1743978		8.86		788804		16.21	
02	F9M96	1152653		12.83		1564238		8.85		471841		16.19	
03	F9M97	1145342		12.84		1596255		8.86		503331		16.20	
04	F9M98	1352417		12.85		1747985		8.86		674935		16.19	
05	F9M99	1133907		12.83		1538443		8.86		513118		16.19	
06	F9K00	1085476		12.84		1467041		8.85		539109		16.19	
07	F9M83RE	864730		12.83		1320560		8.86		338860	*	16.19	
08	F9M92RE	914772		12.84		1499855		8.85		293283	*	16.19	
09	VHBLKS1	1466147		12.84		1784410		8.85		835051		16.19	
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9K00

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725001

Sample wt/vol: 5.21 (g/mL) g Lab File ID: SV52R001

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 12. Date Analyzed: 06/13/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.5	U
74-87-3	Chloromethane	5.5	U
75-01-4	Vinyl chloride	5.5	U
74-83-9	Bromomethane	5.5	U
75-00-3	Chloroethane	5.5	U
75-69-4	Trichlorofluoromethane	5.5	U
75-35-4	1,1-Dichloroethene	5.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	U
67-64-1	Acetone	11.	U
75-15-0	Carbon disulfide	5.5	U
79-20-9	Methyl acetate	5.5	U
75-09-2	Methylene chloride	5.5	U
156-60-5	trans-1,2-Dichloroethene	5.5	U
1634-04-4	Methyl tert-butyl ether	5.5	U
75-34-3	1,1-Dichloroethane	5.5	U
156-59-2	cis-1,2-Dichloroethene	5.5	U
78-93-3	2-Butanone	11.	U
74-97-5	Bromochloromethane	5.5	U
67-66-3	Chloroform	5.5	U
71-55-6	1,1,1-Trichloroethane	5.5	U
110-82-7	Cyclohexane	5.5	U
56-23-5	Carbon tetrachloride	5.5	U
71-43-2	Benzene	5.5	U
107-06-2	1,2-Dichloroethane	5.5	U
123-91-1	1,4-Dioxane	110	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9K00

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725001

Sample wt/vol: 5.21 (g/mL) g Lab File ID: SV52R001

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 12. Date Analyzed: 06/13/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.5	U
108-87-2	Methylcyclohexane	5.5	U
78-87-5	1,2-Dichloropropane	5.5	U
75-27-4	Bromodichloromethane	5.5	U
10061-01-5	cis-1,3-Dichloropropene	5.5	U
108-10-1	4-Methyl-2-Pentanone	11.	U
108-88-3	Toluene	4.2	J
10061-02-6	trans-1,3-Dichloropropene	5.5	U
79-00-5	1,1,2-Trichloroethane	5.5	U
127-18-4	Tetrachloroethene	5.5	U
591-78-6	2-Hexanone	11.	U
124-48-1	Dibromochloromethane	5.5	U
106-93-4	1,2-Dibromoethane	5.5	U
108-90-7	Chlorobenzene	5.5	U
100-41-4	Ethylbenzene	5.5	U
95-47-6	o-Xylene	5.5	U
179601-23-1	m,p-Xylene	5.5	U
100-42-5	Styrene	5.5	U
75-25-2	Bromoform	5.5	U
98-82-8	Isopropylbenzene	5.5	U
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U
541-73-1	1,3-Dichlorobenzene	5.5	U
106-46-7	1,4-Dichlorobenzene	5.5	U
95-50-1	1,2-Dichlorobenzene	5.5	U
96-12-8	1,2-Dibromo-3-chloropropane	5.5	U
120-82-1	1,2,4-Trichlorobenzene	5.5	U
87-61-6	1,2,3-Trichlorobenzene	5.5	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9K00

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725001

Sample wt/vol: 5.21 (g/mL) g Lab File ID: SV52R001

Level: (TRACE or LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 12. Date Analyzed: 06/13/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

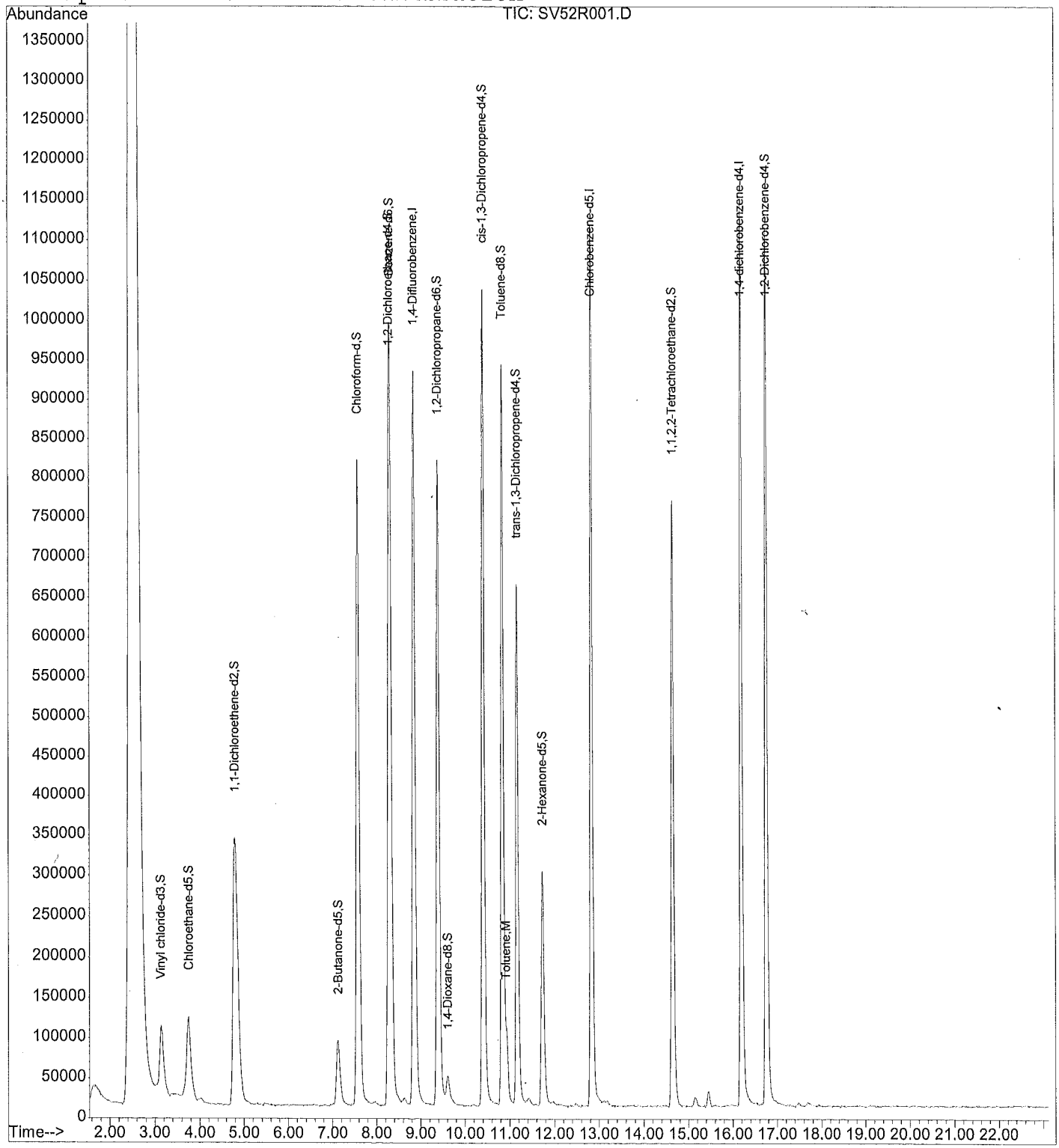
Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV52R001.D
Acq Time : 06/13/2015 14:01 Operator: CQC
Sample : 1515725001 F9K00 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 14:29 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6·18·15



Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV52R001.D
Acq Time : 06/13/2015 14:01 Operator: CQC
Sample : 1515725001 F9K00 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 14:29 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.85	114	1467041	50.00 ug/Kg	111.13
30) Chlorobenzene-d5	12.84	117	1085476	50.00 ug/Kg	101.41
62) 1,4-dichlorobenzene-d4	16.19	152	539109	50.00 ug/Kg	88.61
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.14	65	357074	38.14 ug/Kg	76.29%
8) Chloroethane-d5	3.74	69	380302	42.69 ug/Kg	85.39%
11) 1,1-Dichloroethene-d2	4.80	63	992885	32.17 ug/Kg	64.33%
22) 2-Butanone-d5	7.12	46	280456	110.37 ug/Kg	110.37%
25) Chloroform-d	7.58	84	1437251	47.53 ug/Kg	95.07%
27) 1,2-Dichloroethane-d4	8.28	65	745377	53.93 ug/Kg	107.86%
29) 1,4-Dioxane-d8	9.61	96	58052	1357.39 ug/Kg	135.74%
35) Benzene-d6	8.32	84	1401647	52.51 ug/Kg	105.02%
39) 1,2-Dichloropropane-d6	9.39	67	704089	53.55 ug/Kg	107.11%
42) cis-1,3-Dichloropropene-d4	10.41	79	1125577	51.10 ug/Kg	102.21%
44) trans-1,3-Dichloropropene-	11.16	79	676716	53.28 ug/Kg	106.57%
49) Toluene-d8	10.84	98	1189236	49.25 ug/Kg	98.49%
52) 2-Hexanone-d5	11.73	63	209245	124.31 ug/Kg	124.31%
61) 1,1,2,2-Tetrachloroethane-	14.65	84	795902	58.70 ug/Kg	117.40%
67) 1,2-Dichlorobenzene-d4	16.76	152	521357	50.45 ug/Kg	100.89%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	0.00	43		Not Detected	
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	0.00	84		Not Detected	
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

00039

Quantitation Report

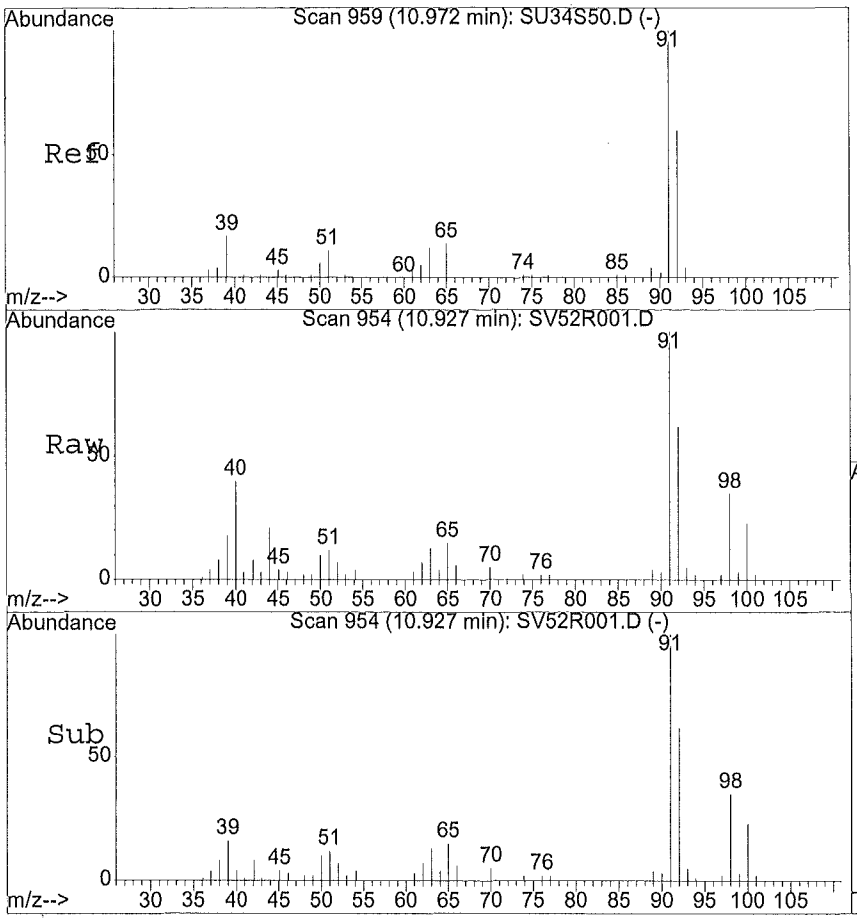
Data File : D:\HPCHEM\1\DATA\13JUN15S\SV52R001.D
Acq Time : 06/13/2015 14:01 Operator: CQC
Sample : 1515725001 F9K00 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 14:29 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	10.93	91	101145	3.87 ug/Kg#	96
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

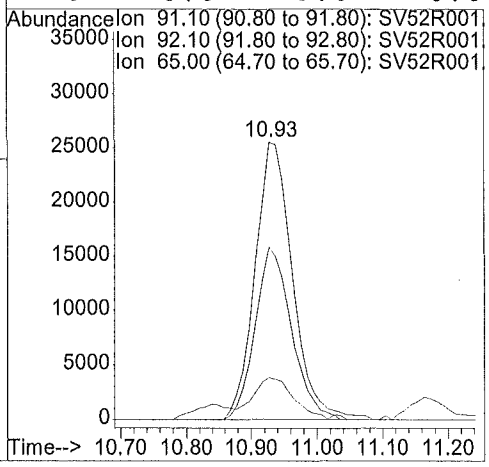
(#) = qualifier out of range (m) = manual integration



#48
Toluene
Concen: 3.87 ug/Kg
RT: 10.93 min Scan# 954
Delta R.T. -0.04 min
Lab File: SV52R001.D
Acq: 06/13/2015 14:01

Tgt Ion:91.1 Resp: 101145

Ion	Ratio	Lower	Upper
91	100		
92	60.2	48.2	72.2
65	22.1	11.7	17.5#
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M82

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725002

Sample wt/vol: 5.04 (g/mL) g Lab File ID: SV29C002

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 20. Date Analyzed: 06/11/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	6.2	U
74-87-3	Chloromethane	6.2	U
75-01-4	Vinyl chloride	6.2	U
74-83-9	Bromomethane	6.2	U
75-00-3	Chloroethane	6.2	U
75-69-4	Trichlorofluoromethane	6.2	U
75-35-4	1,1-Dichloroethene	6.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.2	U
67-64-1	Acetone	12.	U
75-15-0	Carbon disulfide	6.2	U
79-20-9	Methyl acetate	6.2	U
75-09-2	Methylene chloride	0.36	JB
156-60-5	trans-1,2-Dichloroethene	6.2	U
1634-04-4	Methyl tert-butyl ether	6.2	U
75-34-3	1,1-Dichloroethane	6.2	U
156-59-2	cis-1,2-Dichloroethene	6.2	U
78-93-3	2-Butanone	12.	U
74-97-5	Bromochloromethane	6.2	U
67-66-3	Chloroform	6.2	U
71-55-6	1,1,1-Trichloroethane	6.2	U
110-82-7	Cyclohexane	6.2	U
56-23-5	Carbon tetrachloride	6.2	U
71-43-2	Benzene	6.2	U
107-06-2	1,2-Dichloroethane	6.2	U
123-91-1	1,4-Dioxane	120	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M82

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725002

Sample wt/vol: 5.04 (g/mL) g Lab File ID: SV29C002

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 20. Date Analyzed: 06/11/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	6.2	U
108-87-2	Methylcyclohexane	6.2	U
78-87-5	1,2-Dichloropropane	6.2	U
75-27-4	Bromodichloromethane	6.2	U
10061-01-5	cis-1,3-Dichloropropene	6.2	U
108-10-1	4-Methyl-2-Pentanone	12.	U
108-88-3	Toluene	1.8	J
10061-02-6	trans-1,3-Dichloropropene	6.2	U
79-00-5	1,1,2-Trichloroethane	6.2	U
127-18-4	Tetrachloroethene	6.2	U
591-78-6	2-Hexanone	12.	U
124-48-1	Dibromochloromethane	6.2	U
106-93-4	1,2-Dibromoethane	6.2	U
108-90-7	Chlorobenzene	6.2	U
100-41-4	Ethylbenzene	6.2	U
95-47-6	o-Xylene	6.2	U
179601-23-1	m,p-Xylene	6.2	U
100-42-5	Styrene	6.2	U
75-25-2	Bromoform	6.2	U
98-82-8	Isopropylbenzene	6.2	U
79-34-5	1,1,2,2-Tetrachloroethane	6.2	U
541-73-1	1,3-Dichlorobenzene	6.2	U
106-46-7	1,4-Dichlorobenzene	6.2	U
95-50-1	1,2-Dichlorobenzene	6.2	U
96-12-8	1,2-Dibromo-3-chloropropane	6.2	U
120-82-1	1,2,4-Trichlorobenzene	6.2	U
87-61-6	1,2,3-Trichlorobenzene	6.2	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9M82

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725002

Sample wt/vol: 5.04 (g/mL) g Lab File ID: SV29C002

Level: (TRACE or LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 20. Date Analyzed: 06/11/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

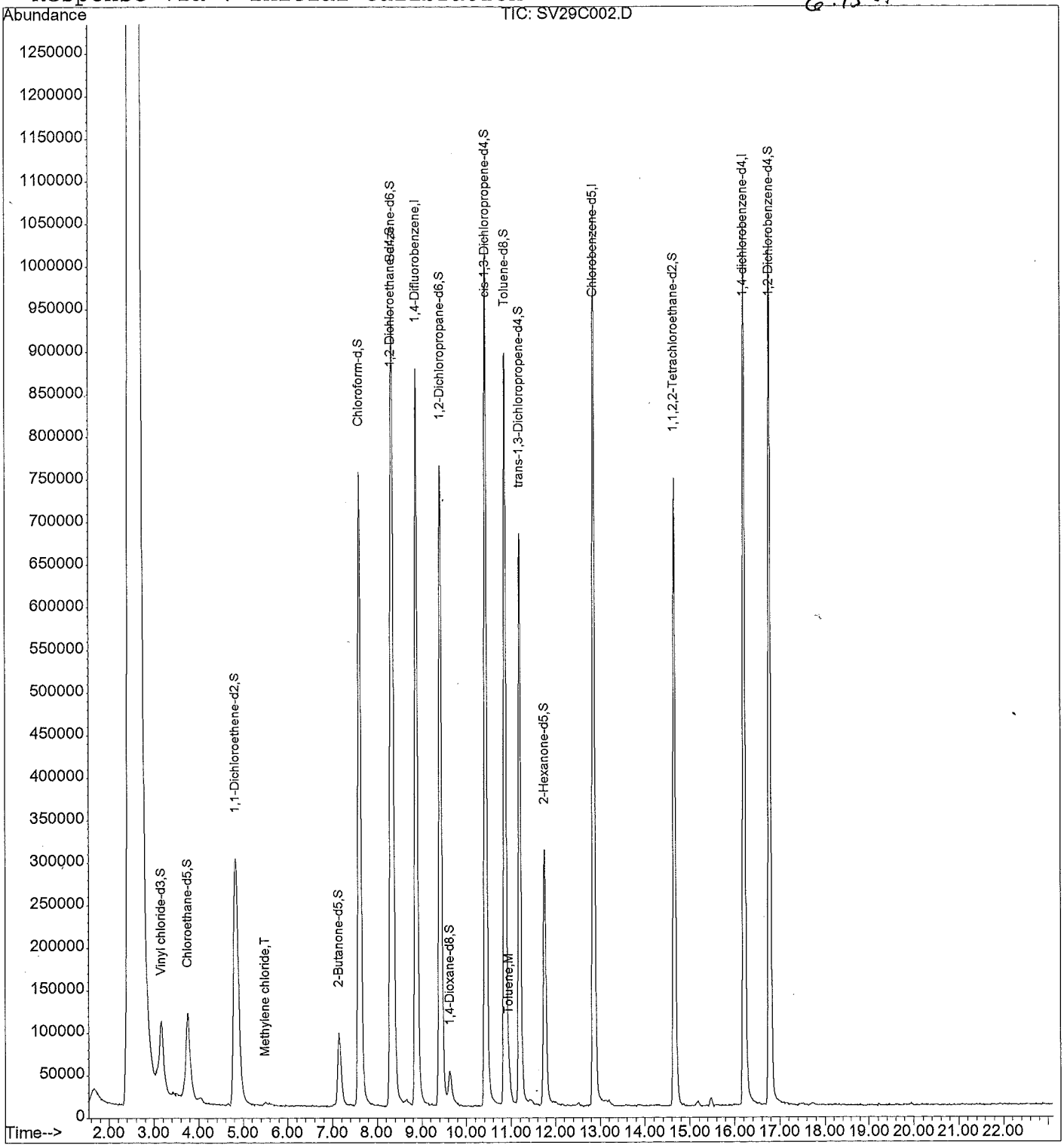
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV29C002.D
Acq Time : 06/11/2015 18:31 Operator: CQC
Sample : 1515725002 F9M82 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:09 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6.13.15



Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV29C002.D
Acq Time : 06/11/2015 18:31 Operator: CQC
Sample : 1515725002 F9M82 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:09 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.87	114	1352547	50.00 ug/Kg	102.46
30) Chlorobenzene-d5	12.86	117	1007862	50.00 ug/Kg	94.16
62) 1,4-dichlorobenzene-d4	16.22	152	490041	50.00 ug/Kg	80.55
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.17	65	352560	40.85 ug/Kg	81.70%
8) Chloroethane-d5	3.76	69	365543	44.51 ug/Kg	89.02%
11) 1,1-Dichloroethene-d2	4.83	63	926644	32.56 ug/Kg	65.12%
22) 2-Butanone-d5	7.14	46	295967	126.33 ug/Kg	126.33%
25) Chloroform-d	7.61	84	1328955	47.67 ug/Kg	95.35%
27) 1,2-Dichloroethane-d4	8.30	65	719287	56.45 ug/Kg	112.90%
29) 1,4-Dioxane-d8	9.63	96	63466	1609.60 ug/Kg	160.96%#
35) Benzene-d6	8.34	84	1307956	52.77 ug/Kg	105.54%
39) 1,2-Dichloropropane-d6	9.43	67	659958	54.06 ug/Kg	108.13%
42) cis-1,3-Dichloropropene-d4	10.44	79	1096417	53.61 ug/Kg	107.23%
44) trans-1,3-Dichloropropene-	11.20	79	689045	58.43 ug/Kg	116.86%
49) Toluene-d8	10.87	98	1134194	50.58 ug/Kg	101.17%
52) 2-Hexanone-d5	11.76	63	220006	140.76 ug/Kg	140.76%#
61) 1,1,2,2-Tetrachloroethane-	14.66	84	764214	60.70 ug/Kg	121.40%
67) 1,2-Dichlorobenzene-d4	16.78	152	474608	50.52 ug/Kg	101.04%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	0.00	43		Not Detected	
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.50	84	2772	0.29 ug/Kg#	24
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

: 88415

Quantitation Report

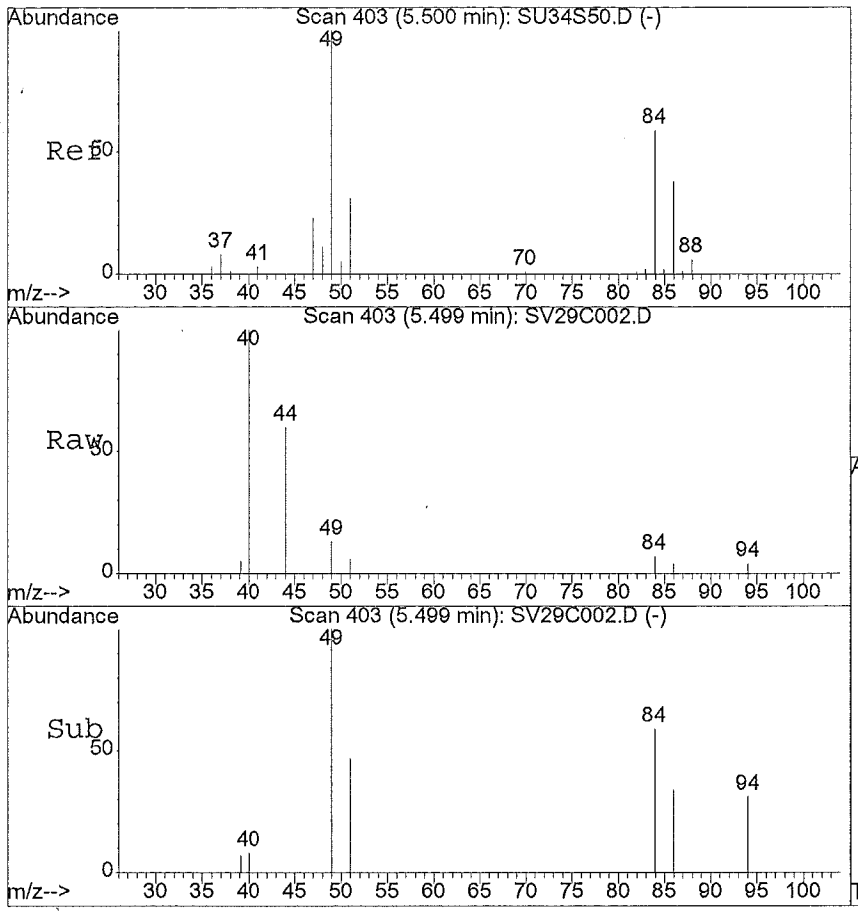
Data File : D:\HPCHEM\1\DATA\11JUN15S\SV29C002.D
Acq Time : 06/11/2015 18:31 Operator: CQC
Sample : 1515725002 F9M82 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:09 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	10.96	91	34731	1.43 ug/Kg#	98
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

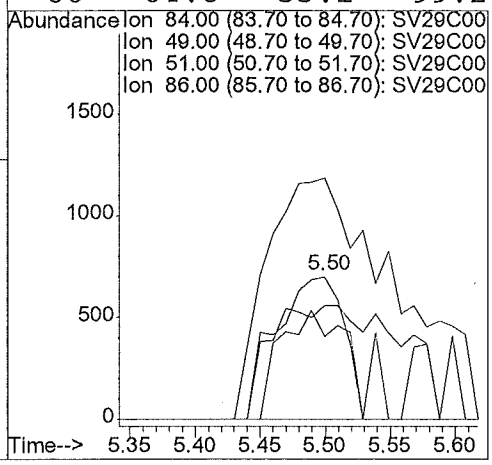
(#) = qualifier out of range (m) = manual integration

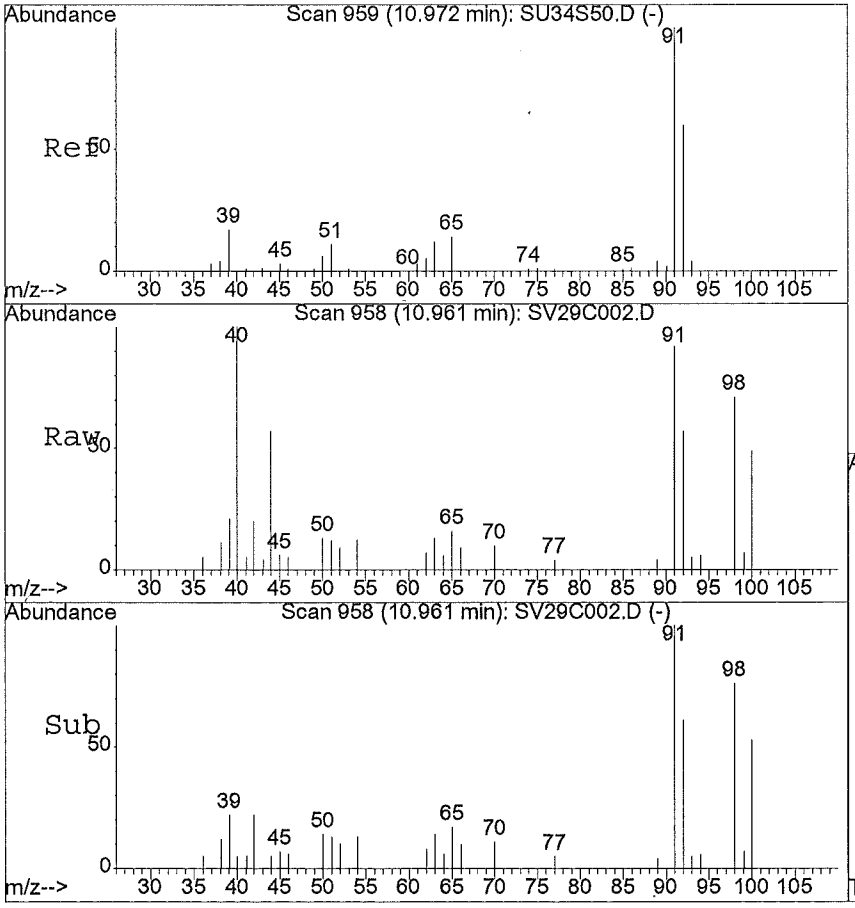


#16
Methylene chloride
Concen: 0.29 ug/Kg
RT: 5.50 min Scan# 403
Delta R.T. -0.00 min
Lab File: SV29C002.D
Acq: 06/11/2015 18:31

Tgt Ion:84 Resp: 2772

Ion	Ratio	Lower	Upper
84	100		
49	291.3	85.4	256.1#
51	145.7	26.8	80.4#
86	64.8	33.1	99.2

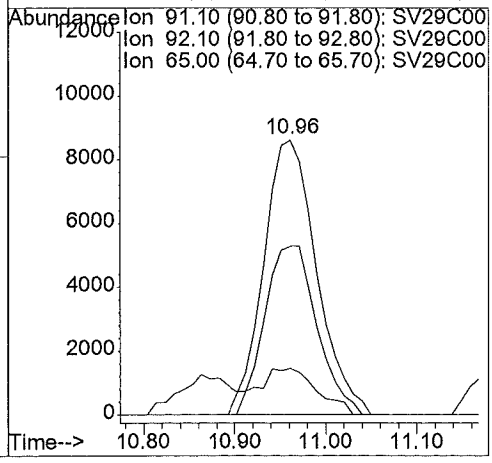




#48
Toluene
Concen: 1.43 ug/Kg
RT: 10.96 min Scan# 958
Delta R.T. -0.01 min
Lab File: SV29C002.D
Acq: 06/11/2015 18:31

Tgt Ion:91.1 Resp: 34731

Ion	Ratio	Lower	Upper
91	100		
92	60.6	48.2	72.2
65	17.6	11.7	17.5#
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M83

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725003

Sample wt/vol: 5.17 (g/mL) g Lab File ID: SV30C003

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 20. Date Analyzed: 06/11/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	6.1	U
74-87-3	Chloromethane	6.1	U
75-01-4	Vinyl chloride	6.1	U
74-83-9	Bromomethane	6.1	U
75-00-3	Chloroethane	6.1	U
75-69-4	Trichlorofluoromethane	6.1	U
75-35-4	1,1-Dichloroethene	6.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.1	U
67-64-1	Acetone	12.	U
75-15-0	Carbon disulfide	6.1	U
79-20-9	Methyl acetate	6.1	U
75-09-2	Methylene chloride	0.38	JB
156-60-5	trans-1,2-Dichloroethene	6.1	U
1634-04-4	Methyl tert-butyl ether	6.1	U
75-34-3	1,1-Dichloroethane	6.1	U
156-59-2	cis-1,2-Dichloroethene	6.1	U
78-93-3	2-Butanone	12.	U
74-97-5	Bromochloromethane	6.1	U
67-66-3	Chloroform	6.1	U
71-55-6	1,1,1-Trichloroethane	6.1	U
110-82-7	Cyclohexane	6.1	U
56-23-5	Carbon tetrachloride	6.1	U
71-43-2	Benzene	6.1	U
107-06-2	1,2-Dichloroethane	6.1	U
123-91-1	1,4-Dioxane	120	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M83

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725003

Sample wt/vol: 5.17 (g/mL) g Lab File ID: SV30C003

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 20. Date Analyzed: 06/11/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	6.1	U
108-87-2	Methylcyclohexane	6.1	U
78-87-5	1,2-Dichloropropane	6.1	U
75-27-4	Bromodichloromethane	6.1	U
10061-01-5	cis-1,3-Dichloropropene	6.1	U
108-10-1	4-Methyl-2-Pentanone	12.	U
108-88-3	Toluene	3.8	J
10061-02-6	trans-1,3-Dichloropropene	6.1	U
79-00-5	1,1,2-Trichloroethane	6.1	U
127-18-4	Tetrachloroethene	6.1	U
591-78-6	2-Hexanone	12.	U
124-48-1	Dibromochloromethane	6.1	U
106-93-4	1,2-Dibromoethane	6.1	U
108-90-7	Chlorobenzene	6.1	U
100-41-4	Ethylbenzene	6.1	U
95-47-6	o-Xylene	6.1	U
179601-23-1	m,p-Xylene	0.24	J
100-42-5	Styrene	6.1	U
75-25-2	Bromoform	6.1	U
98-82-8	Isopropylbenzene	6.1	U
79-34-5	1,1,2,2-Tetrachloroethane	6.1	U
541-73-1	1,3-Dichlorobenzene	6.1	U
106-46-7	1,4-Dichlorobenzene	6.1	U
95-50-1	1,2-Dichlorobenzene	6.1	U
96-12-8	1,2-Dibromo-3-chloropropane	6.1	U
120-82-1	1,2,4-Trichlorobenzene	6.1	U
87-61-6	1,2,3-Trichlorobenzene	6.1	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M83

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725003
Sample wt/vol: 5.17 (g/mL) g Lab File ID: SV30C003
Level: (TRACE or LOW/MED) LOW Date Received: 06/05/2015
% Moisture: not dec. 20. Date Analyzed: 06/11/2015
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

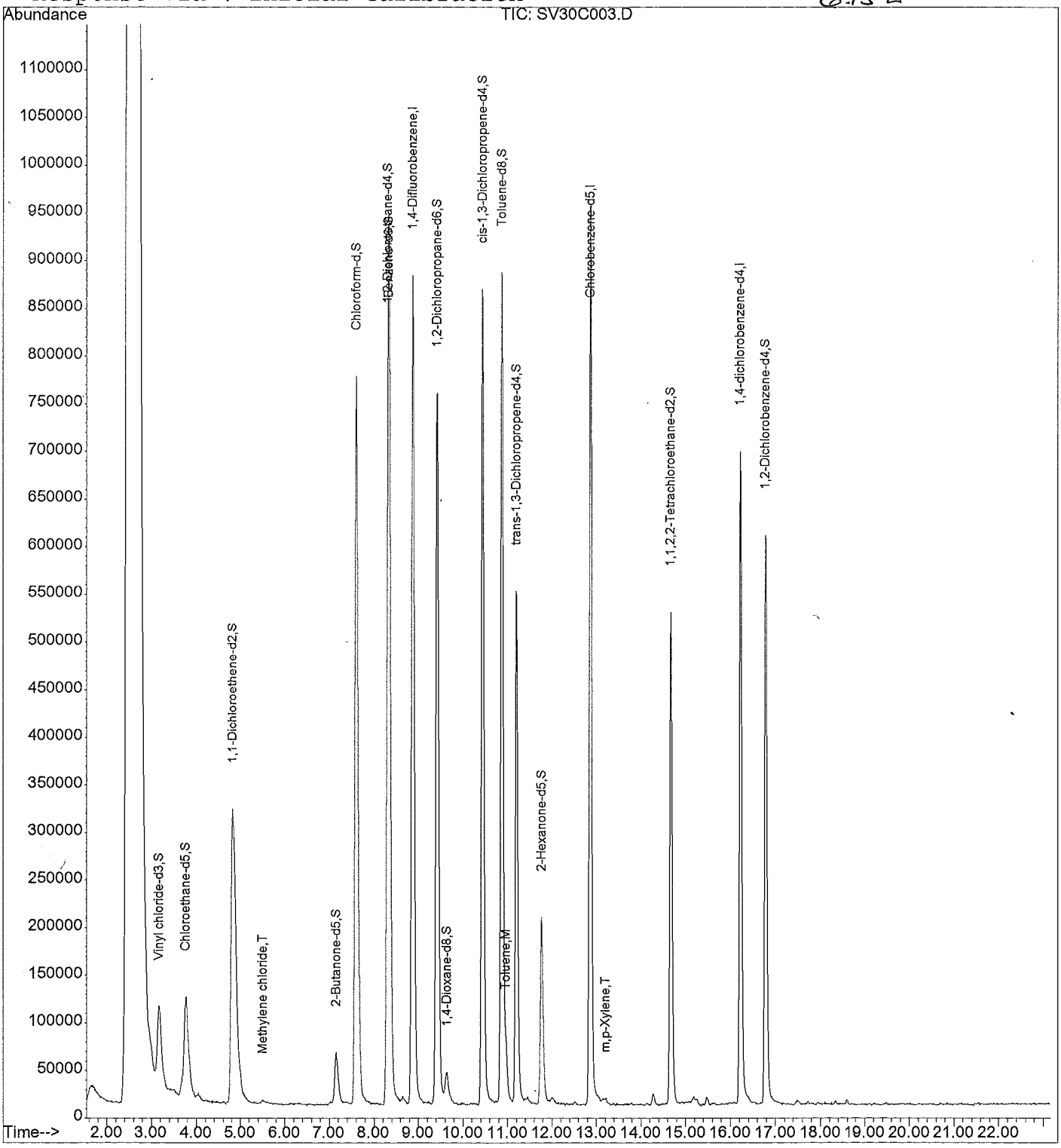
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV30C003.D
Acq Time : 06/11/2015 19:02 Operator: CQC
Sample : 1515725003 F9M83 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:10 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6-13-15



: 00051

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV30C003.D
Acq Time : 06/11/2015 19:02 Operator: CQC
Sample : 1515725003 F9M83 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:10 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.87	114	1371899	50.00 ug/Kg	103.92
30) Chlorobenzene-d5	12.87	117	899836	50.00 ug/Kg	84.06
62) 1,4-dichlorobenzene-d4	16.22	152	318844	50.00 ug/Kg	52.41
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.17	65	372362	42.53 ug/Kg	85.07%
8) Chloroethane-d5	3.77	69	386350	46.38 ug/Kg	92.76%
11) 1,1-Dichloroethene-d2	4.82	63	992865	34.40 ug/Kg	68.79%
22) 2-Butanone-d5	7.15	46	177927	74.87 ug/Kg	74.87%
25) Chloroform-d	7.61	84	1358228	48.04 ug/Kg	96.07%
27) 1,2-Dichloroethane-d4	8.30	65	672313	52.02 ug/Kg	104.04%
29) 1,4-Dioxane-d8	9.63	96	51235	1281.07 ug/Kg	128.11%
35) Benzene-d6	8.34	84	1329989	60.10 ug/Kg	120.21%
39) 1,2-Dichloropropane-d6	9.43	67	652583	59.88 ug/Kg	119.75%
42) cis-1,3-Dichloropropene-d4	10.44	79	903944	49.51 ug/Kg	99.02%
44) trans-1,3-Dichloropropene-	11.20	79	550153	52.25 ug/Kg	104.51%
49) Toluene-d8	10.87	98	1104282	55.16 ug/Kg	110.32%
52) 2-Hexanone-d5	11.76	63	137853	98.79 ug/Kg	98.79%
61) 1,1,2,2-Tetrachloroethane-	14.67	84	532828	47.40 ug/Kg	94.81%
67) 1,2-Dichlorobenzene-d4	16.79	152	276283	45.20 ug/Kg	90.40%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	0.00	43		Not Detected	
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.49	84	2973	0.31 ug/Kg#	45
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

00052

Quantitation Report

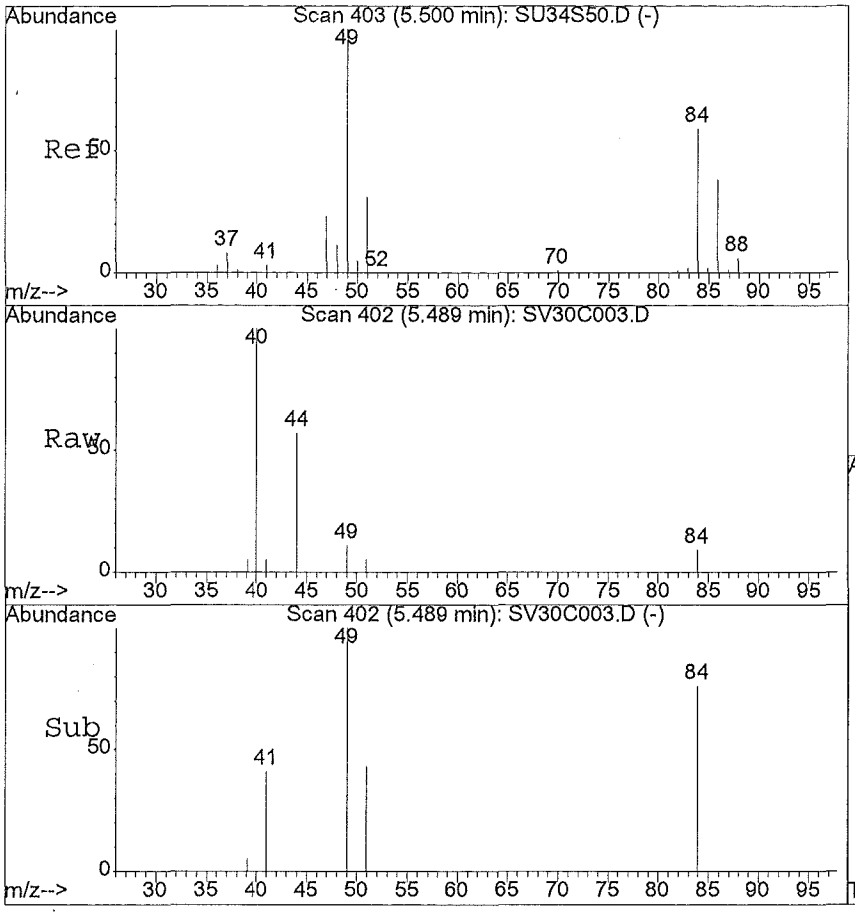
Data File : D:\HPCHEM\1\DATA\11JUN15S\SV30C003.D
Acq Time : 06/11/2015 19:02 Operator: CQC
Sample : 1515725003 F9M83 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:10 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	10.97	91	67350	3.11 ug/Kg	98
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	13.20	106	1912	0.20 ug/Kg#	69
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

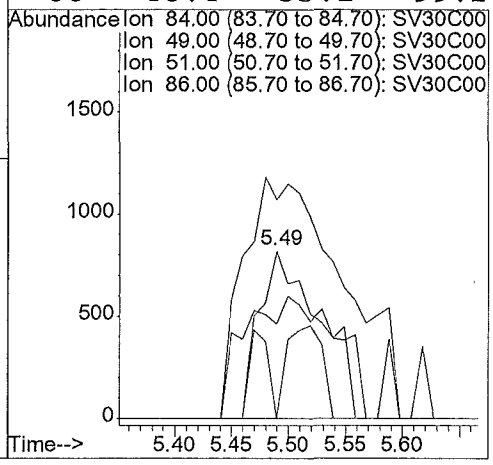
(#) = qualifier out of range (m) = manual integration

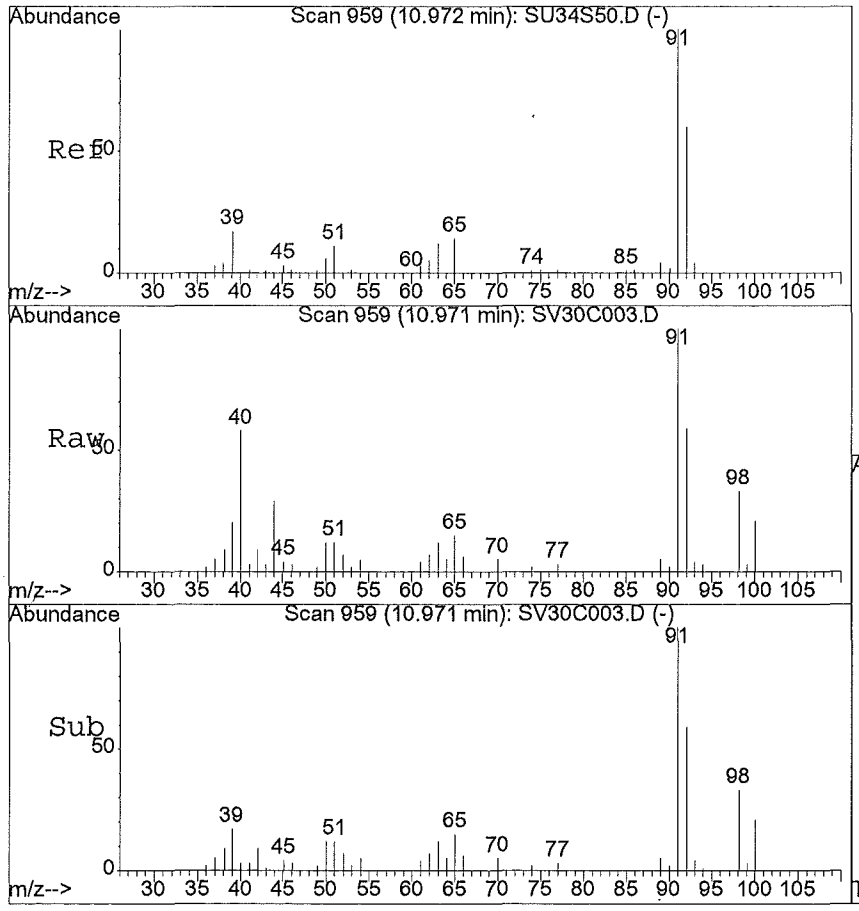


#16
Methylene chloride
Concen: 0.31 ug/Kg
RT: 5.49 min Scan# 402
Delta R.T. -0.01 min
Lab File: SV30C003.D
Acq: 06/11/2015 19:02

Tgt Ion:84 Resp: 2973

Ion	Ratio	Lower	Upper
84	100		
49	246.2	85.4	256.1
51	119.9	26.8	80.4#
86	48.4	33.1	99.2

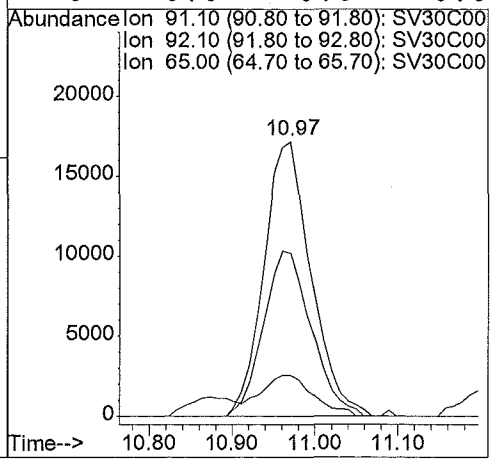


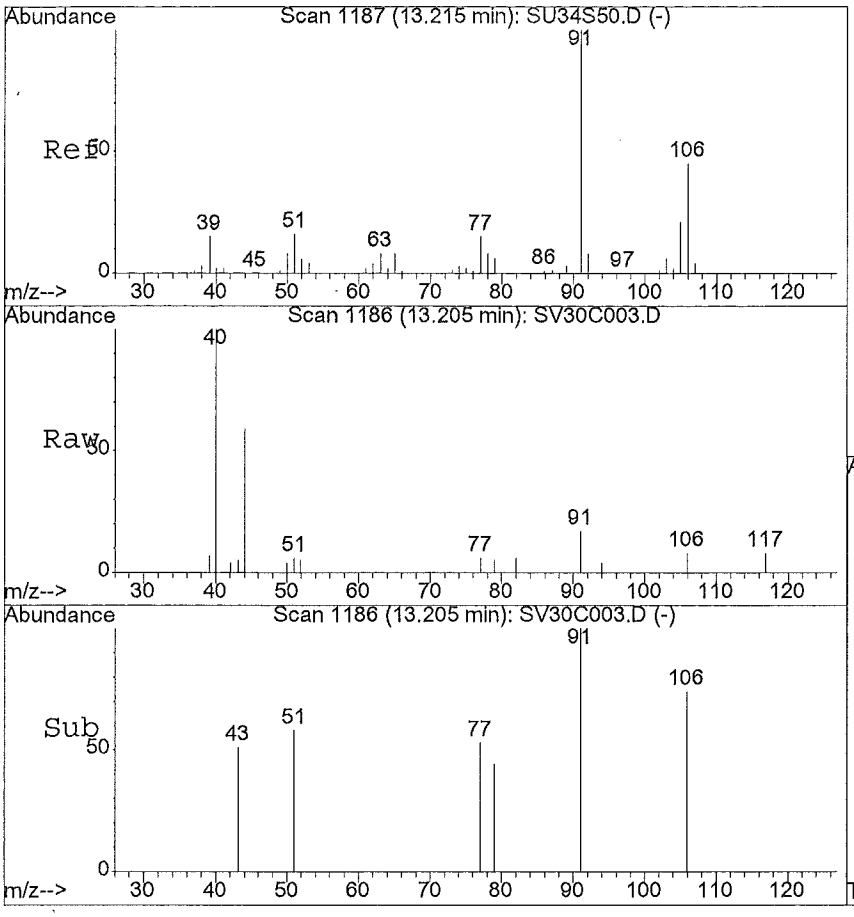


#48
Toluene
Concen: 3.11 ug/Kg
RT: 10.97 min Scan# 959
Delta R.T. -0.00 min
Lab File: SV30C003.D
Acq: 06/11/2015 19:02

Tgt Ion:91.1 Resp: 67350

Ion	Ratio	Lower	Upper
91	100		
92	61.3	48.2	72.2
65	16.6	11.7	17.5
0	0.0	0.0	0.0

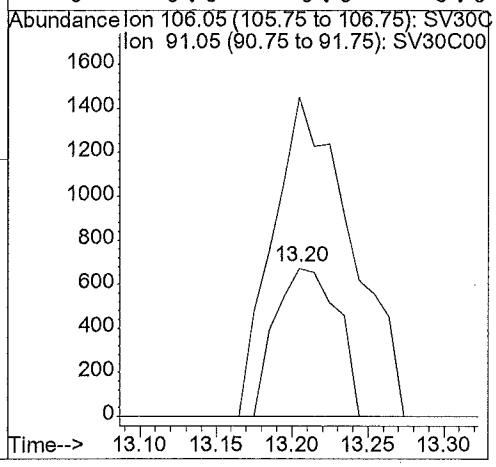




#56
m,p-Xylene
Concen: 0.20 ug/Kg
RT: 13.20 min Scan# 1186
Delta R.T. -0.01 min
Lab File: SV30C003.D
Acq: 06/11/2015 19:02

Tgt Ion:106.05 Resp: 1912

Ion	Ratio	Lower	Upper
106	100		
91	270.6	176.6	264.8#
0	0.0	0.0	0.0
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M83RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725003RE

Sample wt/vol: 4.33 (g/mL) g Lab File ID: SV53R003

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 20. Date Analyzed: 06/13/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	7.2	U
74-87-3	Chloromethane	7.2	U
75-01-4	Vinyl chloride	7.2	U
74-83-9	Bromomethane	7.2	U
75-00-3	Chloroethane	7.2	U
75-69-4	Trichlorofluoromethane	7.2	U
75-35-4	1,1-Dichloroethene	7.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7.2	U
67-64-1	Acetone	13.	J
75-15-0	Carbon disulfide	7.2	U
79-20-9	Methyl acetate	7.2	U
75-09-2	Methylene chloride	7.2	U
156-60-5	trans-1,2-Dichloroethene	7.2	U
1634-04-4	Methyl tert-butyl ether	7.2	U
75-34-3	1,1-Dichloroethane	7.2	U
156-59-2	cis-1,2-Dichloroethene	7.2	U
78-93-3	2-Butanone	14.	U
74-97-5	Bromochloromethane	7.2	U
67-66-3	Chloroform	7.2	U
71-55-6	1,1,1-Trichloroethane	7.2	U
110-82-7	Cyclohexane	7.2	U
56-23-5	Carbon tetrachloride	7.2	U
71-43-2	Benzene	7.2	U
107-06-2	1,2-Dichloroethane	7.2	U
123-91-1	1,4-Dioxane	140	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M83RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725003RE

Sample wt/vol: 4.33 (g/mL) g Lab File ID: SV53R003

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 20. Date Analyzed: 06/13/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	7.2	U
108-87-2	Methylcyclohexane	7.2	U
78-87-5	1,2-Dichloropropane	7.2	U
75-27-4	Bromodichloromethane	7.2	U
10061-01-5	cis-1,3-Dichloropropene	7.2	U
108-10-1	4-Methyl-2-Pentanone	14.	U
108-88-3	Toluene	11.	
10061-02-6	trans-1,3-Dichloropropene	7.2	U
79-00-5	1,1,2-Trichloroethane	7.2	U
127-18-4	Tetrachloroethene	7.2	U
591-78-6	2-Hexanone	14.	U
124-48-1	Dibromochloromethane	7.2	U
106-93-4	1,2-Dibromoethane	7.2	U
108-90-7	Chlorobenzene	7.2	U
100-41-4	Ethylbenzene	7.2	U
95-47-6	o-Xylene	7.2	U
179601-23-1	m,p-Xylene	0.37	J
100-42-5	Styrene	7.2	U
75-25-2	Bromoform	7.2	U
98-82-8	Isopropylbenzene	7.2	U
79-34-5	1,1,2,2-Tetrachloroethane	7.2	U
541-73-1	1,3-Dichlorobenzene	7.2	U
106-46-7	1,4-Dichlorobenzene	7.2	U
95-50-1	1,2-Dichlorobenzene	7.2	U
96-12-8	1,2-Dibromo-3-chloropropane	7.2	U
120-82-1	1,2,4-Trichlorobenzene	7.2	U
87-61-6	1,2,3-Trichlorobenzene	7.2	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M83RE

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725003RE
Sample wt/vol: 4.33 (g/mL) g Lab File ID: SV53R003
Level: (TRACE or LOW/MED) LOW Date Received: 06/05/2015
% Moisture: not dec. 20. Date Analyzed: 06/13/2015
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

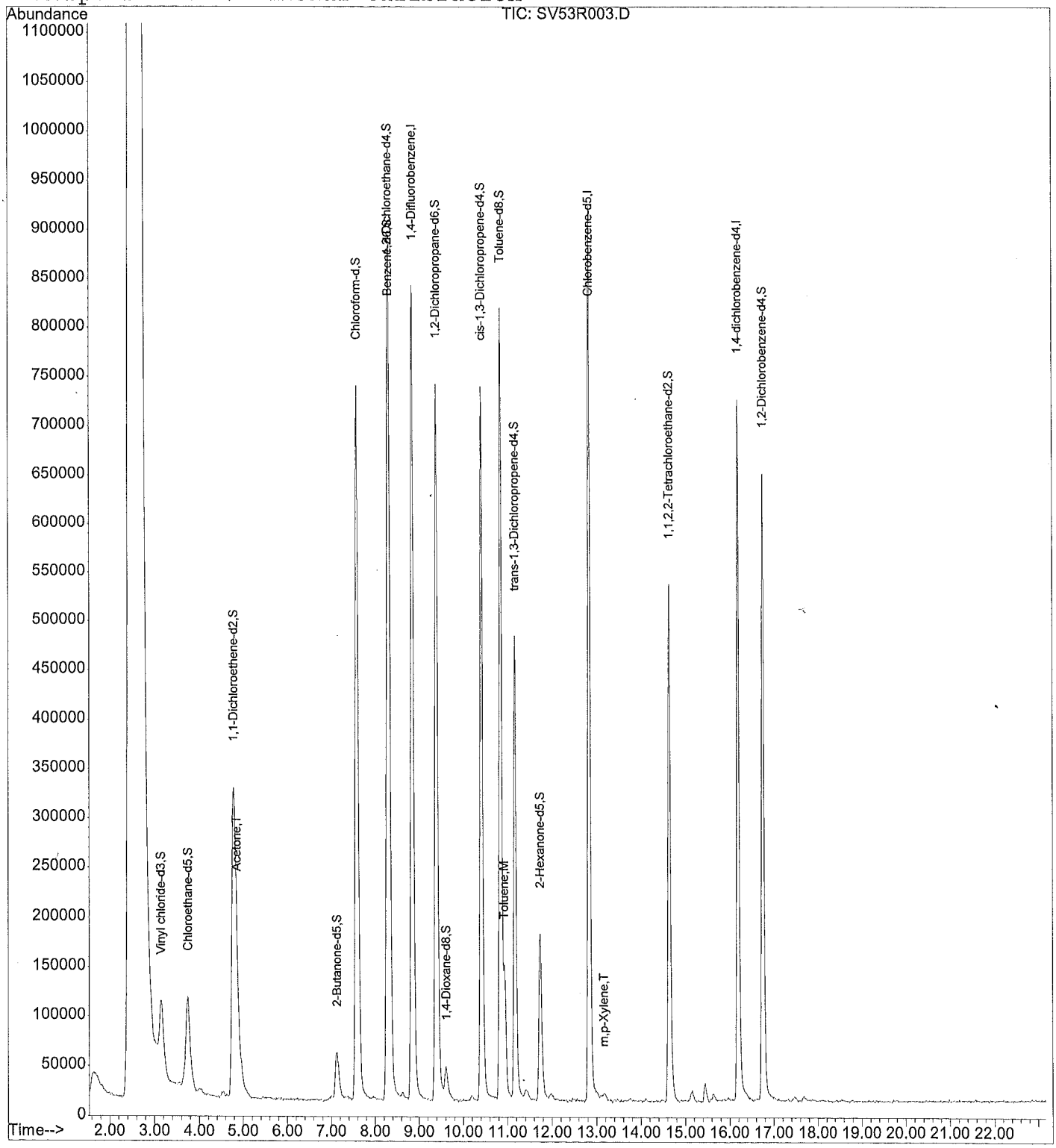
Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV53R003.D
Acq Time : 06/13/2015 14:33 Operator: CQC
Sample : 1515725003RE F9M83RE Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 14:59 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6-13-15



Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV53R003.D
Acq Time : 06/13/2015 14:33 Operator: CQC
Sample : 1515725003RE F9M83RE Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 14:59 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.86	114	1320560	50.00 ug/Kg	100.03
30) Chlorobenzene-d5	12.83	117	864730	50.00 ug/Kg	80.78
62) 1,4-dichlorobenzene-d4	16.19	152	338860	50.00 ug/Kg	55.70
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.16	65	347232	41.21 ug/Kg	82.41%
8) Chloroethane-d5	3.74	69	359331	44.81 ug/Kg	89.63%
11) 1,1-Dichloroethene-d2	4.79	63	950158	34.20 ug/Kg	68.39%
22) 2-Butanone-d5	7.12	46	156930	68.61 ug/Kg	68.61%
25) Chloroform-d	7.59	84	1308686	48.08 ug/Kg	96.17%
27) 1,2-Dichloroethane-d4	8.29	65	636135	51.13 ug/Kg	102.27%
29) 1,4-Dioxane-d8	9.61	96	48917	1270.66 ug/Kg	127.07%
35) Benzene-d6	8.31	84	1263778	59.43 ug/Kg	118.86%
39) 1,2-Dichloropropane-d6	9.40	67	623272	59.51 ug/Kg	119.02%
42) cis-1,3-Dichloropropene-d4	10.41	79	789097	44.97 ug/Kg	89.94%
44) trans-1,3-Dichloropropene-	11.17	79	483705	47.81 ug/Kg	95.62%
49) Toluene-d8	10.84	98	1028547	53.46 ug/Kg	106.93%
52) 2-Hexanone-d5	11.73	63	119134	88.84 ug/Kg	88.84%
61) 1,1,2,2-Tetrachloroethane-	14.64	84	546707	50.61 ug/Kg	101.22%
67) 1,2-Dichlorobenzene-d4	16.76	152	305780	47.07 ug/Kg	94.14%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	4.87	43	21653	8.80 ug/Kg	94
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	0.00	84		Not Detected	
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV53R003.D
Acq Time : 06/13/2015 14:33 Operator: CQC
Sample : 1515725003RE F9M83RE Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

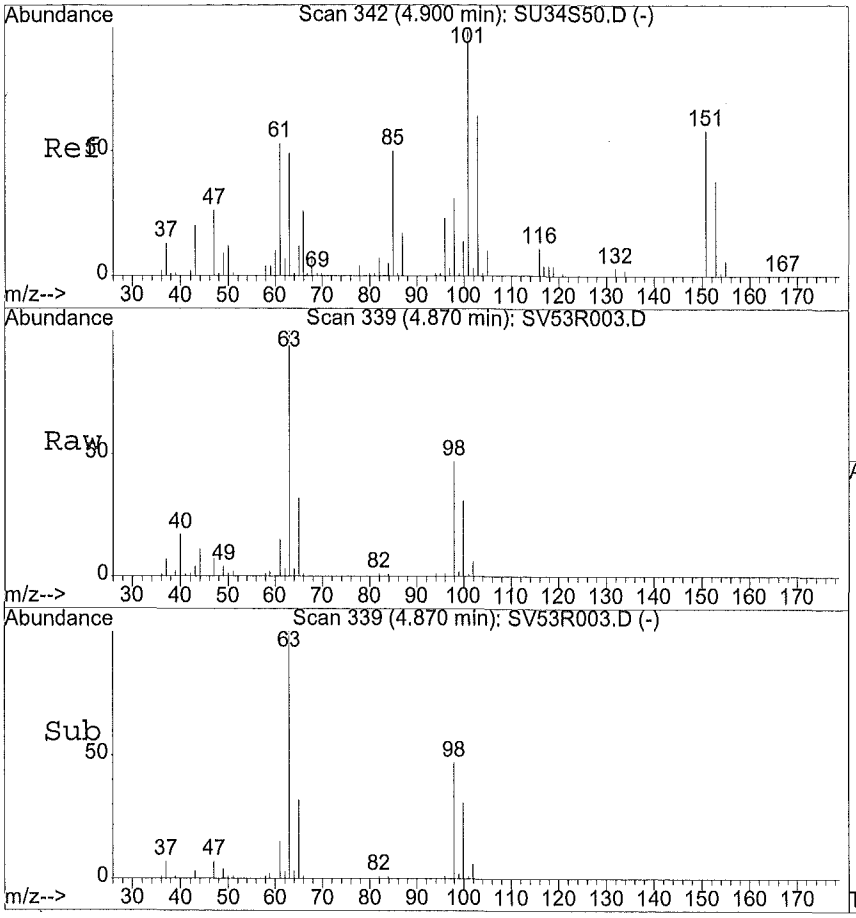
Quant Time: Jun 13 14:59 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	10.93	91	160571	7.71 ug/Kg#	97
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	13.18	106	2362	0.26 ug/Kg	82
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

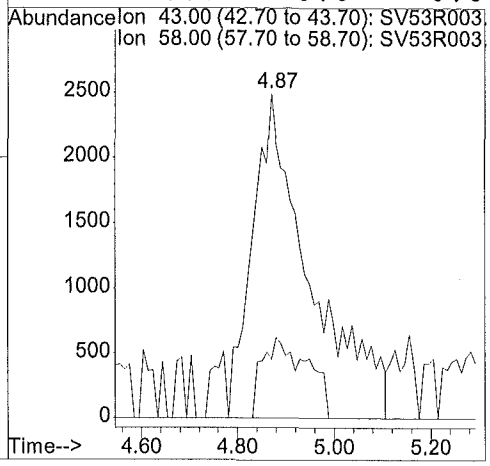
00261

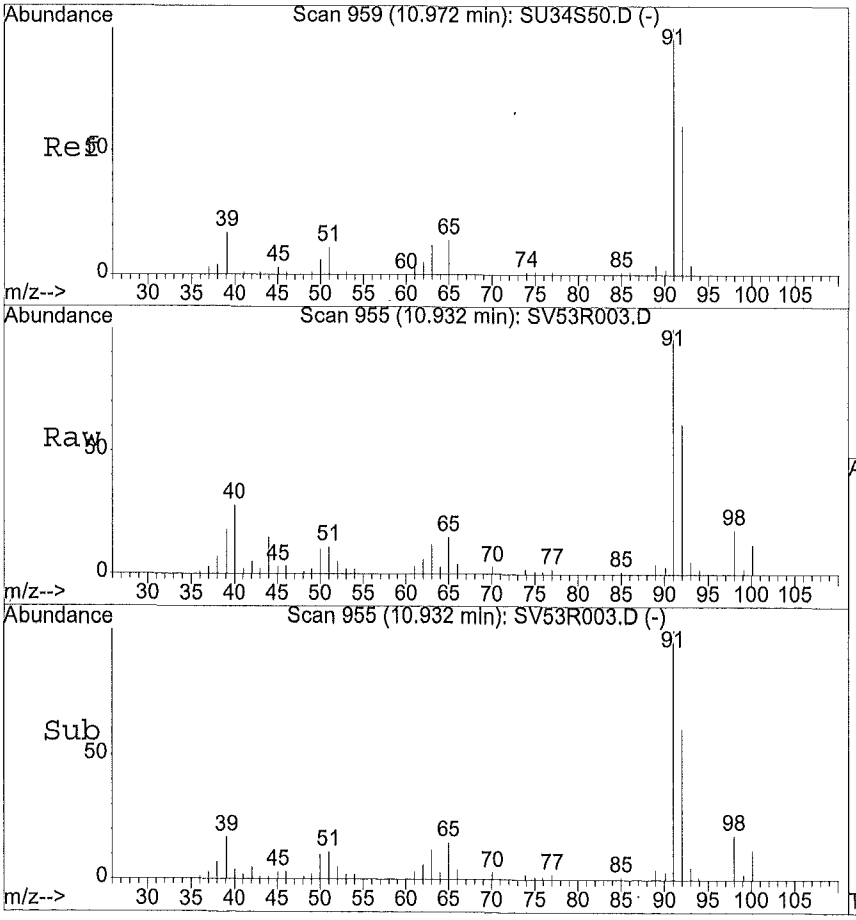


#13
Acetone
Concen: 8.80 ug/Kg
RT: 4.87 min Scan# 339
Delta R.T. -0.02 min
Lab File: SV53R003.D
Acq: 06/13/2015 14:33

Tgt Ion:43 Resp: 21653

Ion	Ratio	Lower	Upper
43	100		
58	18.6	10.9	32.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0

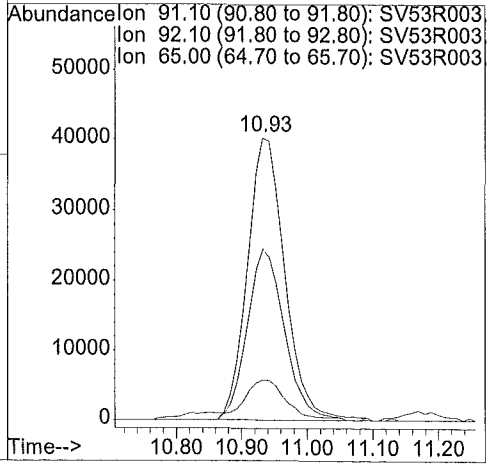


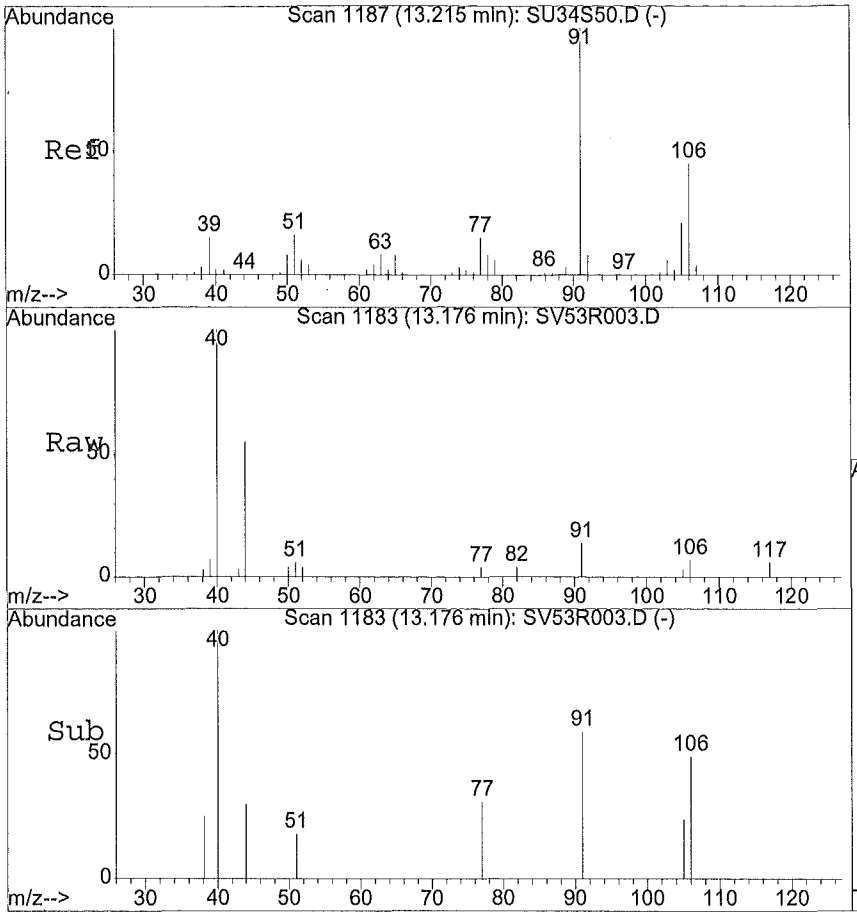


#48
Toluene
Concen: 7.71 ug/Kg
RT: 10.93 min Scan# 955
Delta R.T. -0.04 min
Lab File: SV53R003.D
Acq: 06/13/2015 14:33

Tgt Ion:91.1 Resp: 160571

Ion	Ratio	Lower	Upper
91	100		
92	60.5	48.2	72.2
65	19.2	11.7	17.5#
0	0.0	0.0	0.0

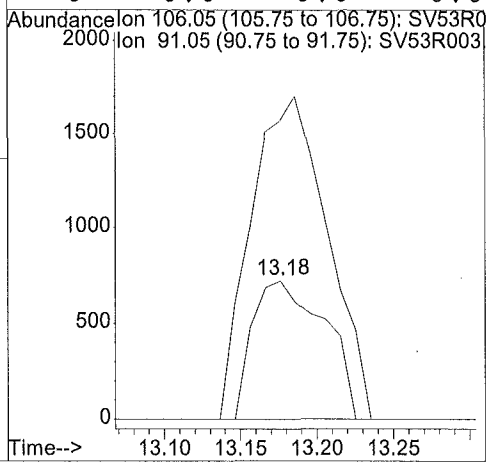




#56
m,p-Xylene
Concen: 0.26 ug/Kg
RT: 13.18 min Scan# 1183
Delta R.T. -0.04 min
Lab File: SV53R003.D
Acq: 06/13/2015 14:33

Tgt Ion:106.05 Resp: 2362

Ion	Ratio	Lower	Upper
106	100		
91	248.9	176.6	264.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M84

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725004

Sample wt/vol: 4.89 (g/mL) g Lab File ID: SV31C004

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 21. Date Analyzed: 06/11/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	6.5	U
74-87-3	Chloromethane	6.5	U
75-01-4	Vinyl chloride	6.5	U
74-83-9	Bromomethane	6.5	U
75-00-3	Chloroethane	6.5	U
75-69-4	Trichlorofluoromethane	6.5	U
75-35-4	1,1-Dichloroethene	6.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.5	U
67-64-1	Acetone	13.	U
75-15-0	Carbon disulfide	6.5	U
79-20-9	Methyl acetate	6.5	U
75-09-2	Methylene chloride	0.59	JB
156-60-5	trans-1,2-Dichloroethene	6.5	U
1634-04-4	Methyl tert-butyl ether	6.5	U
75-34-3	1,1-Dichloroethane	6.5	U
156-59-2	cis-1,2-Dichloroethene	6.5	U
78-93-3	2-Butanone	13.	U
74-97-5	Bromochloromethane	6.5	U
67-66-3	Chloroform	6.5	U
71-55-6	1,1,1-Trichloroethane	6.5	U
110-82-7	Cyclohexane	6.5	U
56-23-5	Carbon tetrachloride	6.5	U
71-43-2	Benzene	6.5	U
107-06-2	1,2-Dichloroethane	6.5	U
123-91-1	1,4-Dioxane	130	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M84

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725004

Sample wt/vol: 4.89 (g/mL) g Lab File ID: SV31C004

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 21. Date Analyzed: 06/11/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	6.5	U
108-87-2	Methylcyclohexane	6.5	U
78-87-5	1,2-Dichloropropane	6.5	U
75-27-4	Bromodichloromethane	6.5	U
10061-01-5	cis-1,3-Dichloropropene	6.5	U
108-10-1	4-Methyl-2-Pentanone	13.	U
108-88-3	Toluene	5.5	J
10061-02-6	trans-1,3-Dichloropropene	6.5	U
79-00-5	1,1,2-Trichloroethane	6.5	U
127-18-4	Tetrachloroethene	6.5	U
591-78-6	2-Hexanone	13.	U
124-48-1	Dibromochloromethane	6.5	U
106-93-4	1,2-Dibromoethane	6.5	U
108-90-7	Chlorobenzene	6.5	U
100-41-4	Ethylbenzene	6.5	U
95-47-6	o-Xylene	6.5	U
179601-23-1	m,p-Xylene	6.5	U
100-42-5	Styrene	6.5	U
75-25-2	Bromoform	6.5	U
98-82-8	Isopropylbenzene	6.5	U
79-34-5	1,1,2,2-Tetrachloroethane	6.5	U
541-73-1	1,3-Dichlorobenzene	6.5	U
106-46-7	1,4-Dichlorobenzene	6.5	U
95-50-1	1,2-Dichlorobenzene	6.5	U
96-12-8	1,2-Dibromo-3-chloropropane	6.5	U
120-82-1	1,2,4-Trichlorobenzene	6.5	U
87-61-6	1,2,3-Trichlorobenzene	6.5	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9M84

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725004

Sample wt/vol: 4.89 (g/mL) g Lab File ID: SV31C004

Level: (TRACE or LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 21. Date Analyzed: 06/11/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

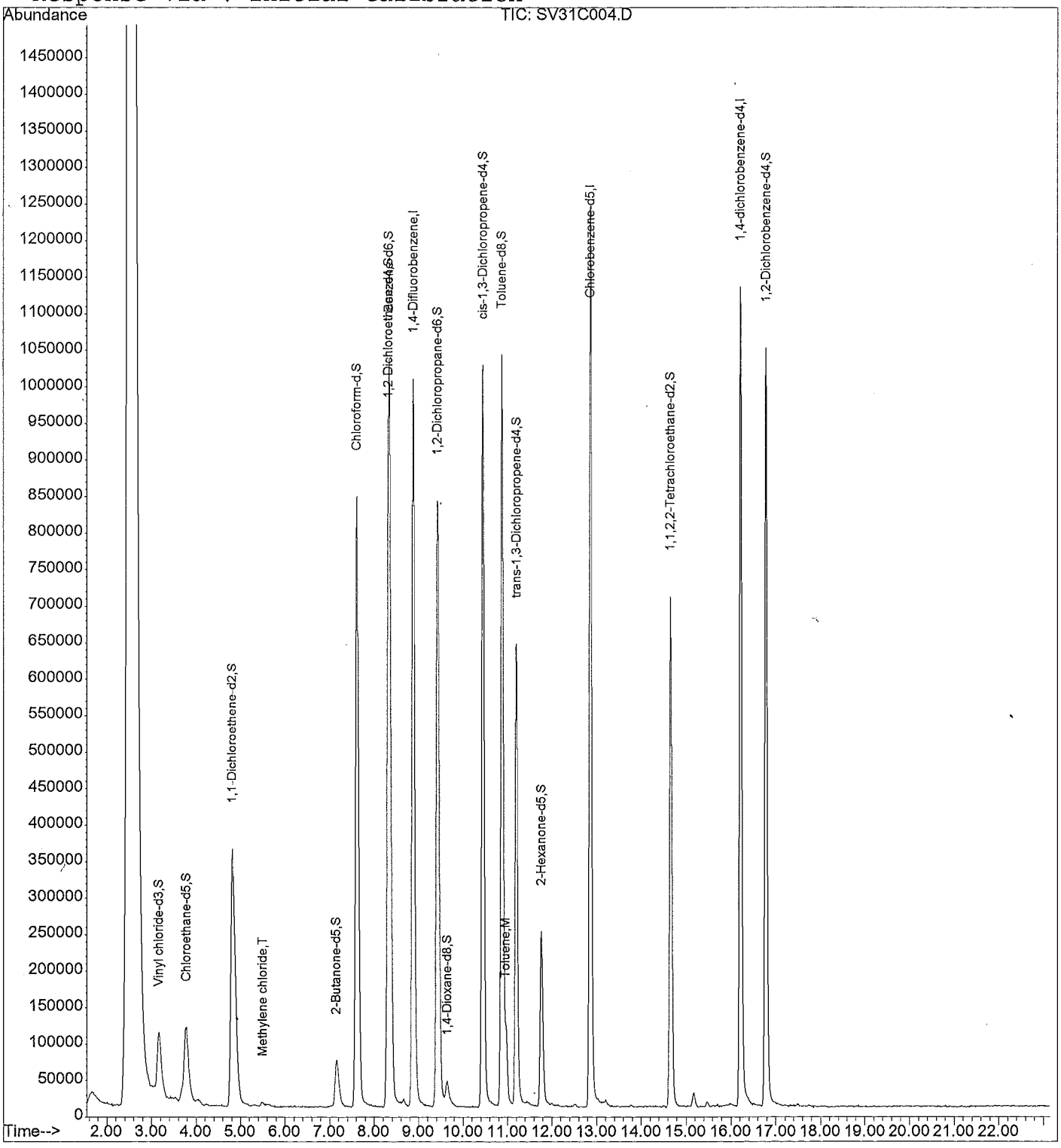
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV31C004.D
Acq Time : 06/11/2015 19:32 Operator: CQC
Sample : 1515725004 F9M84 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:11 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6.13.15



Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV31C004.D
Acq Time : 06/11/2015 19:32 Operator: CQC
Sample : 1515725004 F9M84 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:11 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.88	114	1559560	50.00 ug/Kg	118.14
30) Chlorobenzene-d5	12.87	117	1179342	50.00 ug/Kg	110.18
62) 1,4-dichlorobenzene-d4	16.21	152	523514	50.00 ug/Kg	86.05
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.16	65	390031	39.19 ug/Kg	78.38%
8) Chloroethane-d5	3.77	69	401224	42.37 ug/Kg	84.74%
11) 1,1-Dichloroethene-d2	4.82	63	1029323	31.37 ug/Kg	62.74%
22) 2-Butanone-d5	7.15	46	218997	81.07 ug/Kg	81.07%
25) Chloroform-d	7.61	84	1491230	46.39 ug/Kg	92.79%
27) 1,2-Dichloroethane-d4	8.31	65	729827	49.67 ug/Kg	99.35%
29) 1,4-Dioxane-d8	9.64	96	53440	1175.42 ug/Kg	117.54%
35) Benzene-d6	8.35	84	1465978	50.55 ug/Kg	101.10%
39) 1,2-Dichloropropane-d6	9.42	67	730605	51.15 ug/Kg	102.30%
42) cis-1,3-Dichloropropene-d4	10.45	79	1094923	45.75 ug/Kg	91.51%
44) trans-1,3-Dichloropropene-	11.19	79	654831	47.46 ug/Kg	94.91%
49) Toluene-d8	10.87	98	1307424	49.83 ug/Kg	99.66%
52) 2-Hexanone-d5	11.76	63	167269	91.46 ug/Kg	91.46%
61) 1,1,2,2-Tetrachloroethane-	14.66	84	734795	49.88 ug/Kg	99.76%
67) 1,2-Dichlorobenzene-d4	16.78	152	483062	48.13 ug/Kg	96.27%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	0.00	43		Not Detected	
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.50	84	4963	0.45 ug/Kg#	68
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV31C004.D
Acq Time : 06/11/2015 19:32 Operator: CQC
Sample : 1515725004 F9M84 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

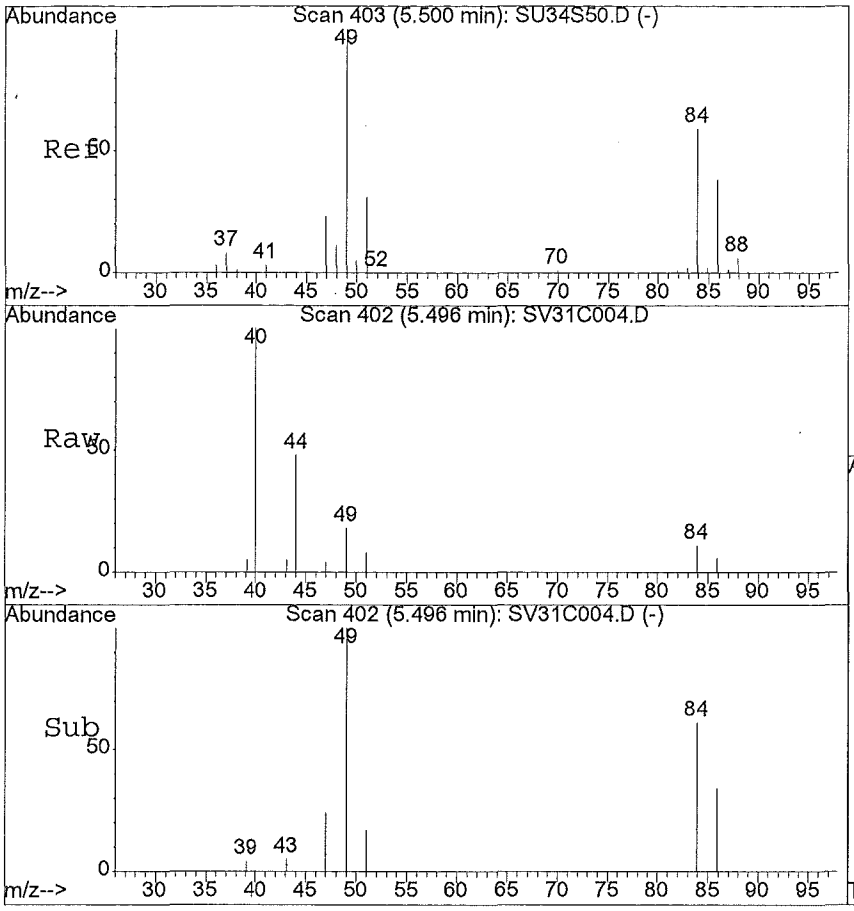
Quant Time: Jun 13 12:11 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	10.97	91	121761	4.29 ug/Kg	98
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

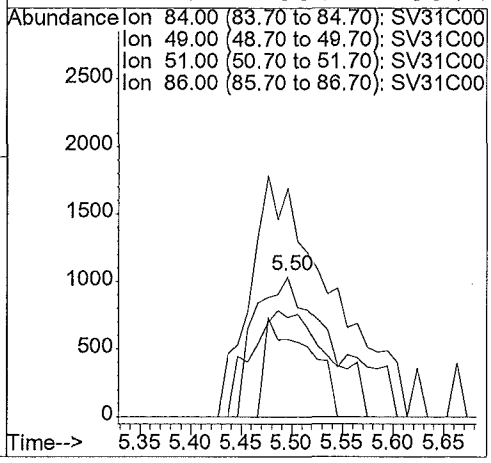
00869

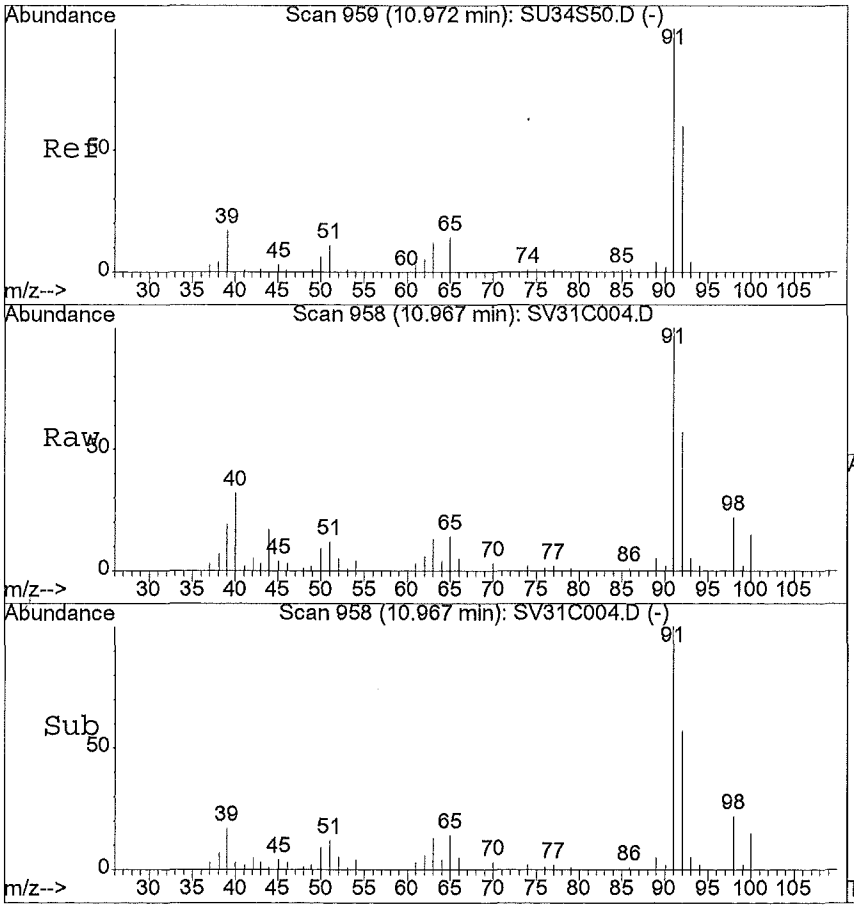


#16
Methylene chloride
Concen: 0.45 ug/Kg
RT: 5.50 min Scan# 402
Delta R.T. -0.00 min
Lab File: SV31C004.D
Acq: 06/11/2015 19:32

Tgt Ion:84 Resp: 4963

Ion	Ratio	Lower	Upper
84	100		
49	203.2	85.4	256.1
51	99.4	26.8	80.4#
86	45.0	33.1	99.2

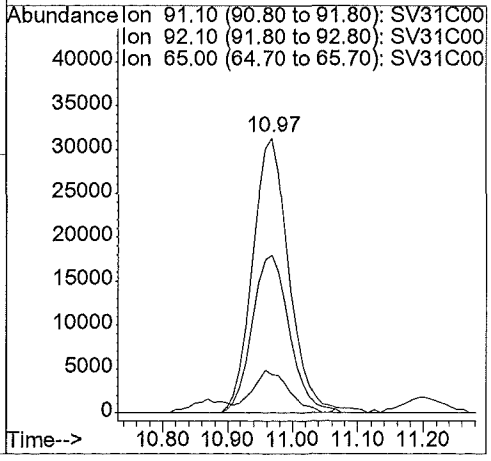




#48
Toluene
Concen: 4.29 ug/Kg
RT: 10.97 min Scan# 958
Delta R.T. -0.00 min
Lab File: SV31C004.D
Acq: 06/11/2015 19:32

Tgt Ion:91.1 Resp: 121761

Ion	Ratio	Lower	Upper
91	100		
92	58.7	48.2	72.2
65	15.7	11.7	17.5
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M85

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725005

Sample wt/vol: 3.26 (g/mL) g Lab File ID: SV32C005

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 5.6 Date Analyzed: 06/11/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	8.1	U
74-87-3	Chloromethane	8.1	U
75-01-4	Vinyl chloride	8.1	U
74-83-9	Bromomethane	8.1	U
75-00-3	Chloroethane	8.1	U
75-69-4	Trichlorofluoromethane	8.1	U
75-35-4	1,1-Dichloroethene	8.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	8.1	U
67-64-1	Acetone	16.	U
75-15-0	Carbon disulfide	8.1	U
79-20-9	Methyl acetate	8.1	U
75-09-2	Methylene chloride	0.62	JB
156-60-5	trans-1,2-Dichloroethene	8.1	U
1634-04-4	Methyl tert-butyl ether	8.1	U
75-34-3	1,1-Dichloroethane	8.1	U
156-59-2	cis-1,2-Dichloroethene	8.1	U
78-93-3	2-Butanone	16.	U
74-97-5	Bromochloromethane	8.1	U
67-66-3	Chloroform	8.1	U
71-55-6	1,1,1-Trichloroethane	8.1	U
110-82-7	Cyclohexane	8.1	U
56-23-5	Carbon tetrachloride	8.1	U
71-43-2	Benzene	8.1	U
107-06-2	1,2-Dichloroethane	8.1	U
123-91-1	1,4-Dioxane	160	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M85

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725005

Sample wt/vol: 3.26 (g/mL) g Lab File ID: SV32C005

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 5.6 Date Analyzed: 06/11/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	8.1	U
108-87-2	Methylcyclohexane	8.1	U
78-87-5	1,2-Dichloropropane	8.1	U
75-27-4	Bromodichloromethane	8.1	U
10061-01-5	cis-1,3-Dichloropropene	8.1	U
108-10-1	4-Methyl-2-Pentanone	16.	U
108-88-3	Toluene	2.2	J
10061-02-6	trans-1,3-Dichloropropene	8.1	U
79-00-5	1,1,2-Trichloroethane	8.1	U
127-18-4	Tetrachloroethene	8.1	U
591-78-6	2-Hexanone	16.	U
124-48-1	Dibromochloromethane	8.1	U
106-93-4	1,2-Dibromoethane	8.1	U
108-90-7	Chlorobenzene	8.1	U
100-41-4	Ethylbenzene	8.1	U
95-47-6	o-Xylene	8.1	U
179601-23-1	m,p-Xylene	8.1	U
100-42-5	Styrene	8.1	U
75-25-2	Bromoform	8.1	U
98-82-8	Isopropylbenzene	8.1	U
79-34-5	1,1,2,2-Tetrachloroethane	8.1	U
541-73-1	1,3-Dichlorobenzene	8.1	U
106-46-7	1,4-Dichlorobenzene	8.1	U
95-50-1	1,2-Dichlorobenzene	8.1	U
96-12-8	1,2-Dibromo-3-chloropropane	8.1	U
120-82-1	1,2,4-Trichlorobenzene	8.1	U
87-61-6	1,2,3-Trichlorobenzene	8.1	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M85

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725005
Sample wt/vol: 3.26 (g/mL) g Lab File ID: SV32C005
Level: (TRACE or LOW/MED) LOW Date Received: 06/05/2015
% Moisture: not dec. 5.6 Date Analyzed: 06/11/2015
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

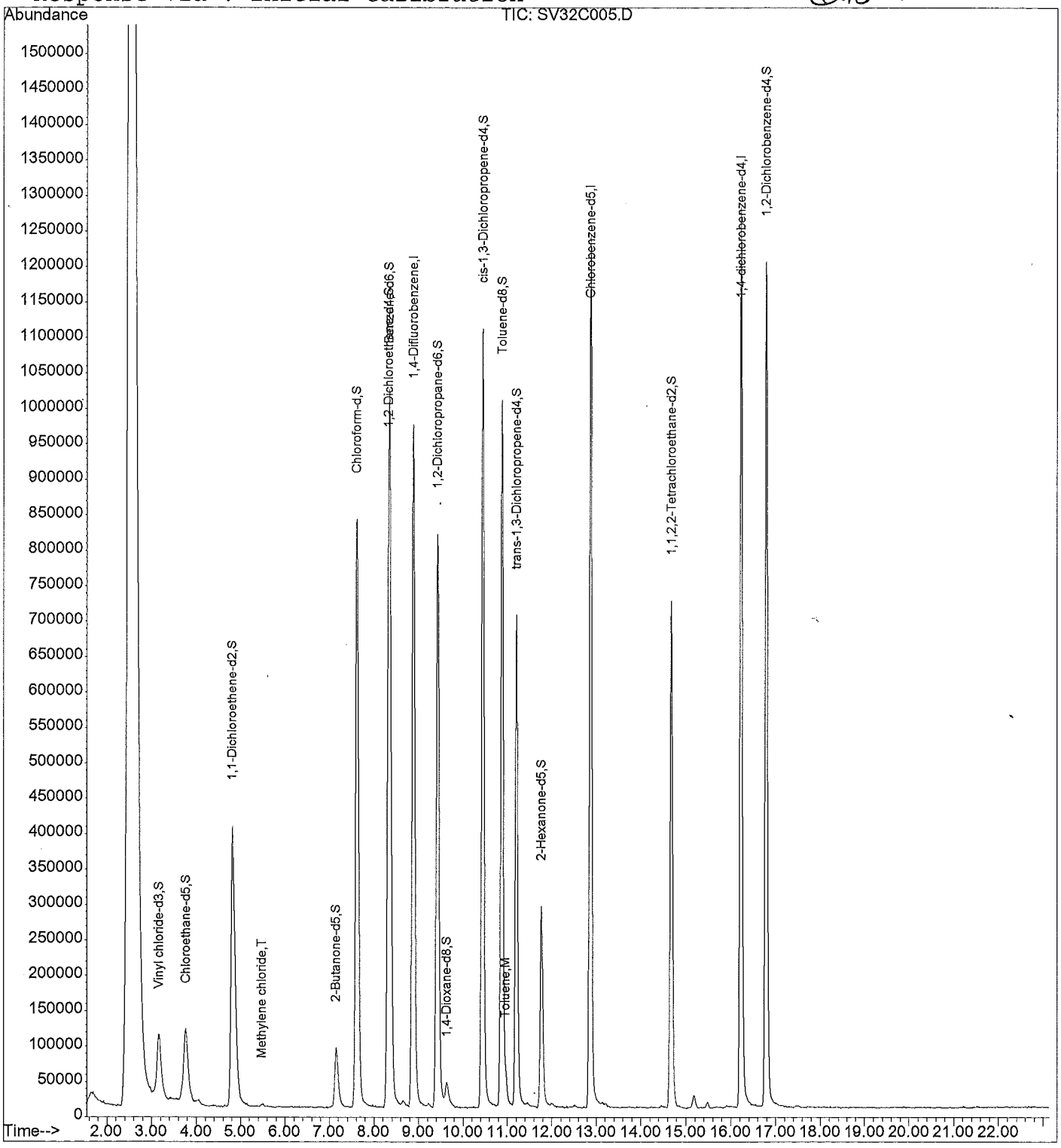
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV32C005.D
Acq Time : 06/11/2015 20:03 Operator: CQC
Sample : 1515725005 F9M85 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:11 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6.13.15



Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV32C005.D
Acq Time : 06/11/2015 20:03 Operator: CQC
Sample : 1515725005 F9M85 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:11 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.88	114	1514183	50.00 ug/Kg	114.70
30) Chlorobenzene-d5	12.87	117	1166841	50.00 ug/Kg	109.01
62) 1,4-dichlorobenzene-d4	16.22	152	584806	50.00 ug/Kg	96.12
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.15	65	389769	40.34 ug/Kg	80.68%
8) Chloroethane-d5	3.76	69	402213	43.75 ug/Kg	87.50%
11) 1,1-Dichloroethene-d2	4.82	63	1052408	33.03 ug/Kg	66.07%
22) 2-Butanone-d5	7.15	46	281608	107.37 ug/Kg	107.37%
25) Chloroform-d	7.61	84	1473989	47.23 ug/Kg	94.46%
27) 1,2-Dichloroethane-d4	8.31	65	710893	49.84 ug/Kg	99.67%
29) 1,4-Dioxane-d8	9.64	96	52218	1182.96 ug/Kg	118.30%
35) Benzene-d6	8.35	84	1457883	50.81 ug/Kg	101.61%
39) 1,2-Dichloropropane-d6	9.42	67	699007	49.46 ug/Kg	98.92%
42) cis-1,3-Dichloropropene-d4	10.44	79	1187138	50.14 ug/Kg	100.28%
44) trans-1,3-Dichloropropene-	11.20	79	708275	51.88 ug/Kg	103.76%
49) Toluene-d8	10.88	98	1279981	49.31 ug/Kg	98.62%
52) 2-Hexanone-d5	11.76	63	202079	111.68 ug/Kg	111.68%
61) 1,1,2,2-Tetrachloroethane-	14.68	84	744691	51.09 ug/Kg	102.18%
67) 1,2-Dichlorobenzene-d4	16.79	152	553700	49.39 ug/Kg	98.78%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	0.00	43		Not Detected	
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.49	84	4015	0.38 ug/Kg#	74
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

: 9975

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV32C005.D
Acq Time : 06/11/2015 20:03 Operator: CQC
Sample : 1515725005 F9M85 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

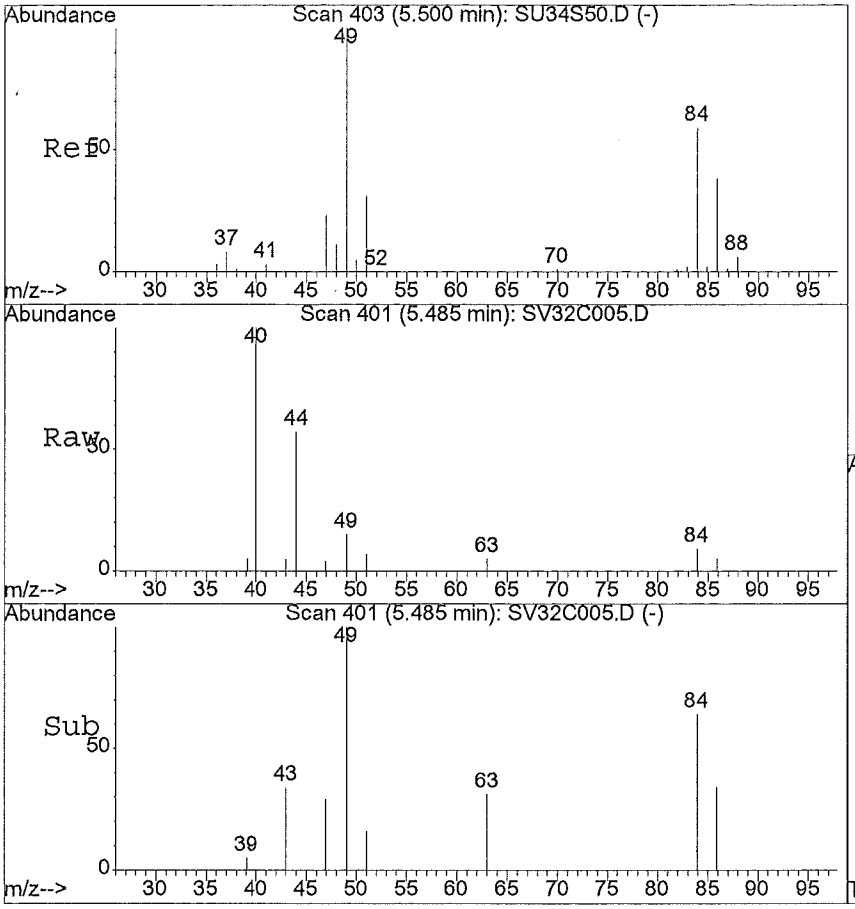
Quant Time: Jun 13 12:11 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	10.97	91	38398	1.37 ug/Kg	97
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

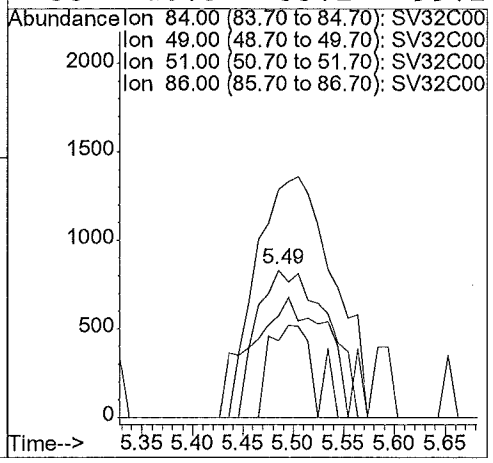
: 00078

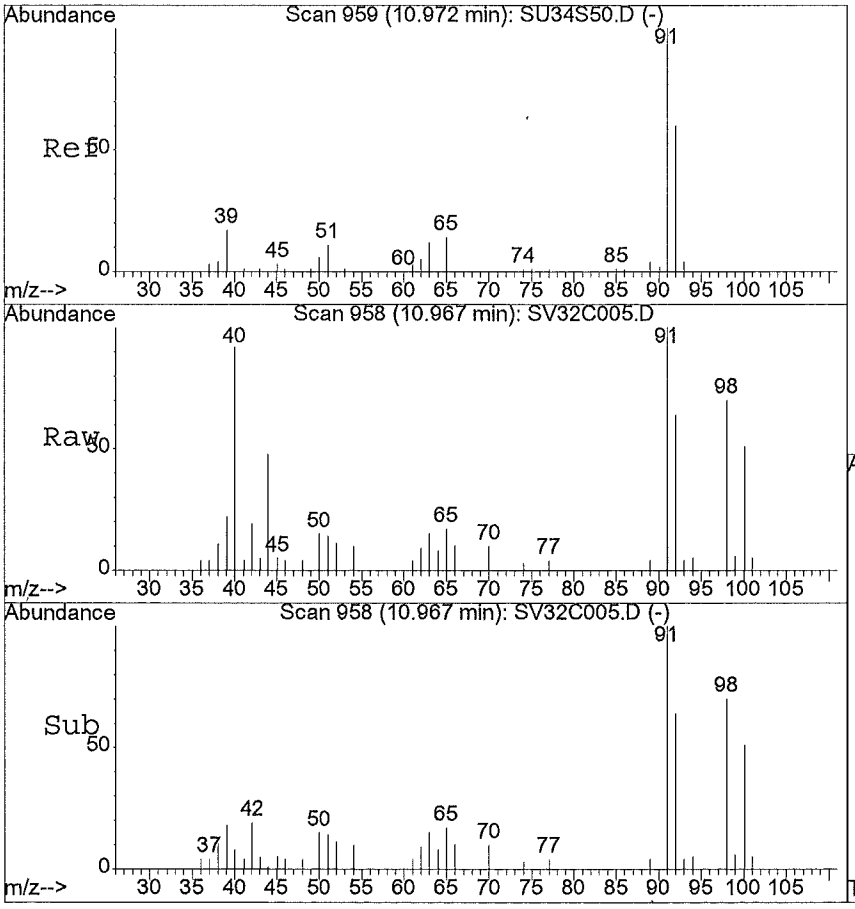


#16
Methylene chloride
Concen: 0.38 ug/Kg
RT: 5.49 min Scan# 401
Delta R.T. -0.01 min
Lab File: SV32C005.D
Acq: 06/11/2015 20:03

Tgt Ion:84 Resp: 4015

Ion	Ratio	Lower	Upper
84	100		
49	190.1	85.4	256.1
51	92.3	26.8	80.4#
86	40.3	33.1	99.2

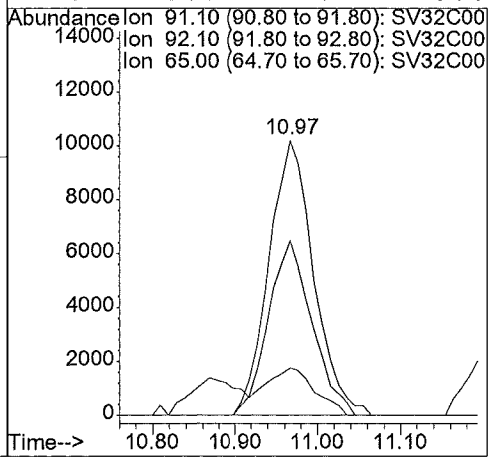




#48
Toluene
Concen: 1.37 ug/Kg
RT: 10.97 min Scan# 958
Delta R.T. -0.01 min
Lab File: SV32C005.D
Acq: 06/11/2015 20:03

Tgt Ion:91.1 Resp: 38398

Ion	Ratio	Lower	Upper
91	100		
92	61.8	48.2	72.2
65	17.3	11.7	17.5
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M86

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725006

Sample wt/vol: 5.33 (g/mL) g Lab File ID: SV33C006

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 5.2 Date Analyzed: 06/11/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	4.9	U
74-87-3	Chloromethane	4.9	U
75-01-4	Vinyl chloride	4.9	U
74-83-9	Bromomethane	4.9	U
75-00-3	Chloroethane	4.9	U
75-69-4	Trichlorofluoromethane	4.9	U
75-35-4	1,1-Dichloroethene	4.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.9	U
67-64-1	Acetone	5.9	J
75-15-0	Carbon disulfide	4.9	U
79-20-9	Methyl acetate	4.9	U
75-09-2	Methylene chloride	0.39	JB
156-60-5	trans-1,2-Dichloroethene	4.9	U
1634-04-4	Methyl tert-butyl ether	4.9	U
75-34-3	1,1-Dichloroethane	4.9	U
156-59-2	cis-1,2-Dichloroethene	4.9	U
78-93-3	2-Butanone	9.9	U
74-97-5	Bromochloromethane	4.9	U
67-66-3	Chloroform	4.9	U
71-55-6	1,1,1-Trichloroethane	4.9	U
110-82-7	Cyclohexane	4.9	U
56-23-5	Carbon tetrachloride	4.9	U
71-43-2	Benzene	4.9	U
107-06-2	1,2-Dichloroethane	4.9	U
123-91-1	1,4-Dioxane	99.	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M86

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725006

Sample wt/vol: 5.33 (g/mL) g Lab File ID: SV33C006

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 5.2 Date Analyzed: 06/11/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	4.9	U
108-87-2	Methylcyclohexane	4.9	U
78-87-5	1,2-Dichloropropane	4.9	U
75-27-4	Bromodichloromethane	4.9	U
10061-01-5	cis-1,3-Dichloropropene	4.9	U
108-10-1	4-Methyl-2-Pentanone	9.9	U
108-88-3	Toluene	3.0	J
10061-02-6	trans-1,3-Dichloropropene	4.9	U
79-00-5	1,1,2-Trichloroethane	4.9	U
127-18-4	Tetrachloroethene	4.9	U
591-78-6	2-Hexanone	9.9	U
124-48-1	Dibromochloromethane	4.9	U
106-93-4	1,2-Dibromoethane	4.9	U
108-90-7	Chlorobenzene	4.9	U
100-41-4	Ethylbenzene	4.9	U
95-47-6	o-Xylene	4.9	U
179601-23-1	m,p-Xylene	4.9	U
100-42-5	Styrene	4.9	U
75-25-2	Bromoform	4.9	U
98-82-8	Isopropylbenzene	4.9	U
79-34-5	1,1,2,2-Tetrachloroethane	4.9	U
541-73-1	1,3-Dichlorobenzene	4.9	U
106-46-7	1,4-Dichlorobenzene	4.9	U
95-50-1	1,2-Dichlorobenzene	4.9	U
96-12-8	1,2-Dibromo-3-chloropropane	4.9	U
120-82-1	1,2,4-Trichlorobenzene	4.9	U
87-61-6	1,2,3-Trichlorobenzene	4.9	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9M86

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725006

Sample wt/vol: 5.33 (g/mL) g Lab File ID: SV33C006

Level: (TRACE or LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 5.2 Date Analyzed: 06/11/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

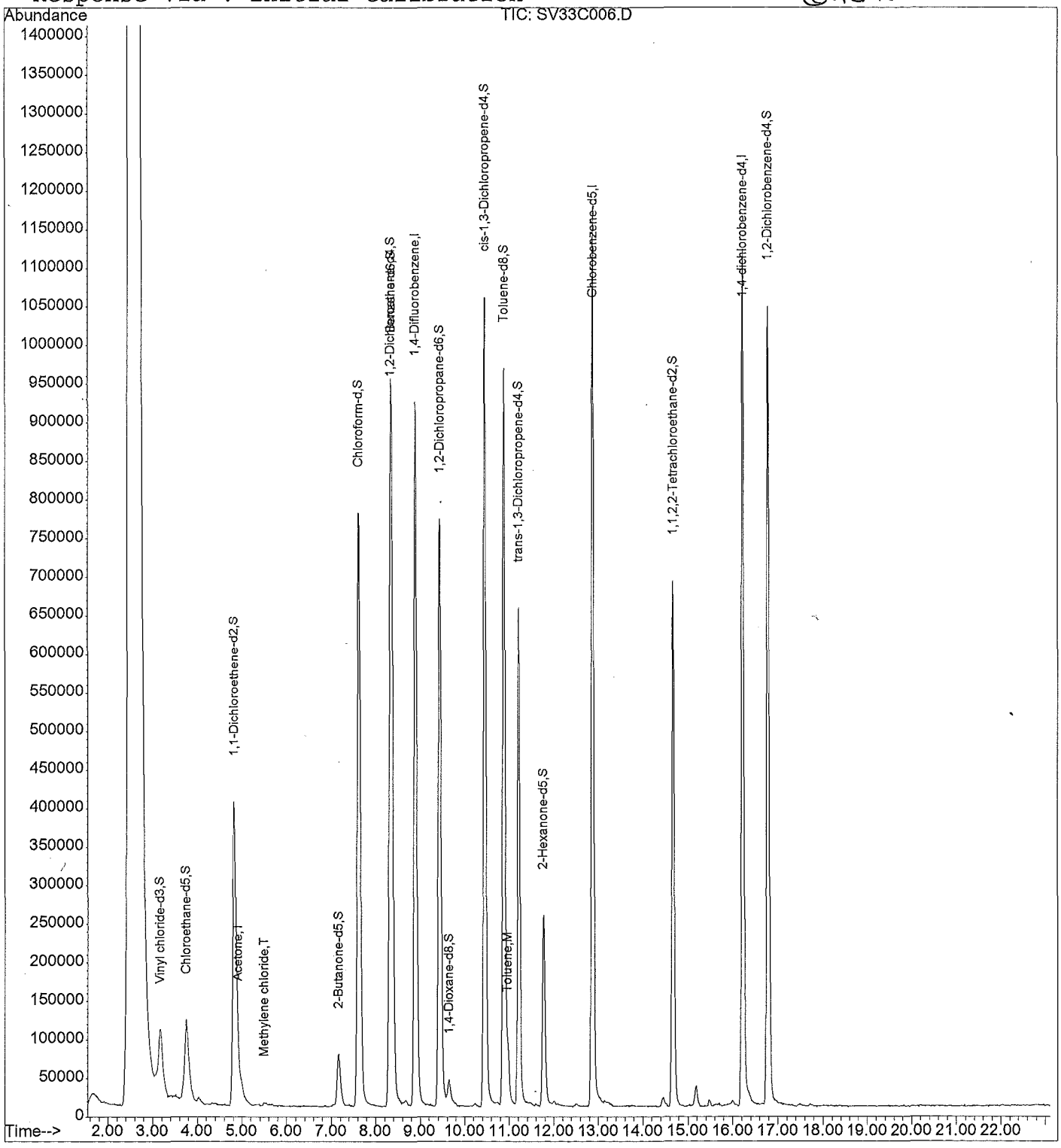
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV33C006.D
Acq Time : 06/11/2015 20:33 Operator: CQC
Sample : 1515725006 F9M86 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:12 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6.13.15



Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV33C006.D
Acq Time : 06/11/2015 20:33 Operator: CQC
Sample : 1515725006 F9M86 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:12 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.89	114	1411122	50.00 ug/Kg	106.90
30) Chlorobenzene-d5	12.87	117	1099972	50.00 ug/Kg	102.76
62) 1,4-dichlorobenzene-d4	16.22	152	512467	50.00 ug/Kg	84.23
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.17	65	361387	40.13 ug/Kg	80.27%
8) Chloroethane-d5	3.76	69	374003	43.65 ug/Kg	87.30%
11) 1,1-Dichloroethene-d2	4.82	63	983321	33.12 ug/Kg	66.24%
22) 2-Butanone-d5	7.15	46	236261	96.66 ug/Kg	96.66%
25) Chloroform-d	7.62	84	1380989	47.48 ug/Kg	94.97%
27) 1,2-Dichloroethane-d4	8.32	65	667307	50.20 ug/Kg	100.39%
29) 1,4-Dioxane-d8	9.64	96	47700	1159.53 ug/Kg	115.95%
35) Benzene-d6	8.35	84	1361736	50.34 ug/Kg	100.68%
39) 1,2-Dichloropropane-d6	9.44	67	661638	49.66 ug/Kg	99.32%
42) cis-1,3-Dichloropropene-d4	10.45	79	1108674	49.67 ug/Kg	99.35%
44) trans-1,3-Dichloropropene-	11.21	79	662892	51.51 ug/Kg	103.01%
49) Toluene-d8	10.88	98	1212167	49.53 ug/Kg	99.07%
52) 2-Hexanone-d5	11.77	63	178827	104.84 ug/Kg	104.84%
61) 1,1,2,2-Tetrachloroethane-	14.67	84	702594	51.13 ug/Kg	102.27%
67) 1,2-Dichlorobenzene-d4	16.78	152	476013	48.45 ug/Kg	96.91%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	4.92	43	15578	5.92 ug/Kg#	71
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.49	84	3859	0.39 ug/Kg#	69
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

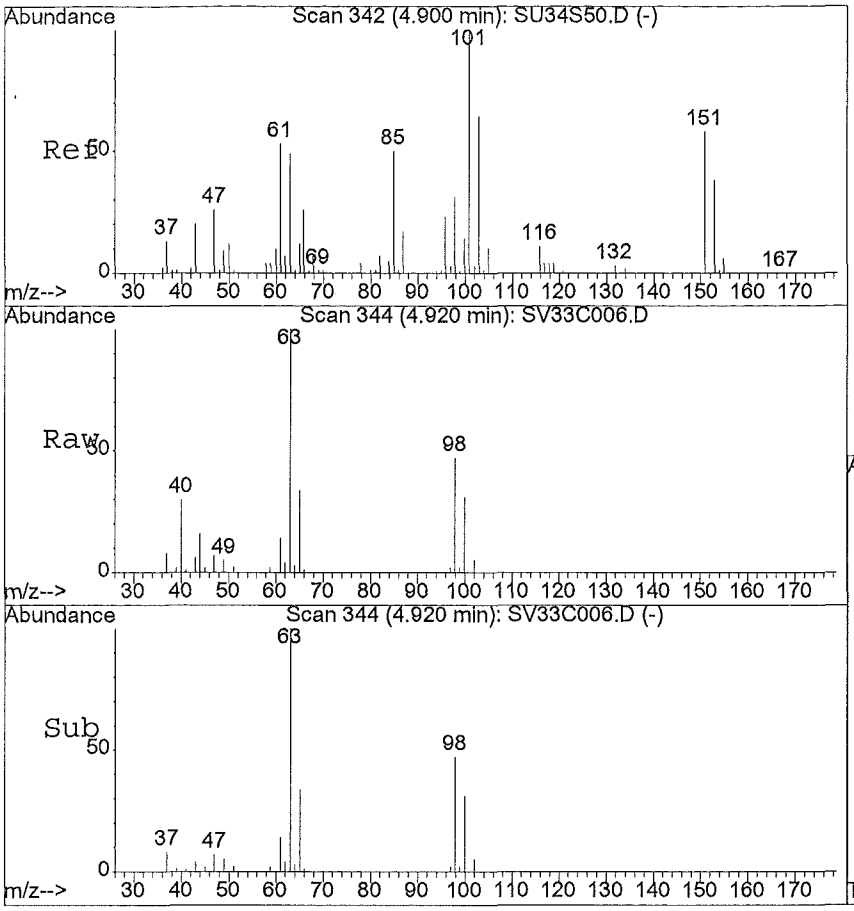
Data File : D:\HPCHEM\1\DATA\11JUN15S\SV33C006.D
Acq Time : 06/11/2015 20:33 Operator: CQC
Sample : 1515725006 F9M86 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:12 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	10.97	91	79431	3.00 ug/Kg	98
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

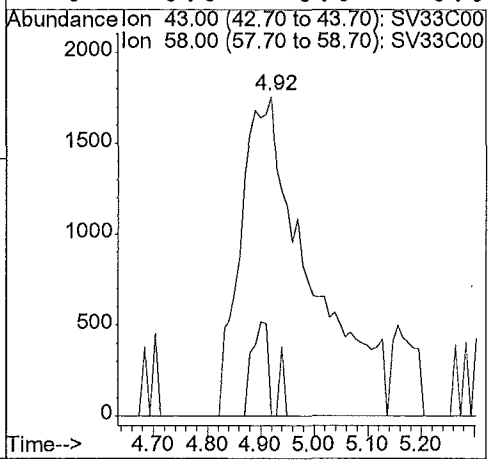
(#) = qualifier out of range (m) = manual integration

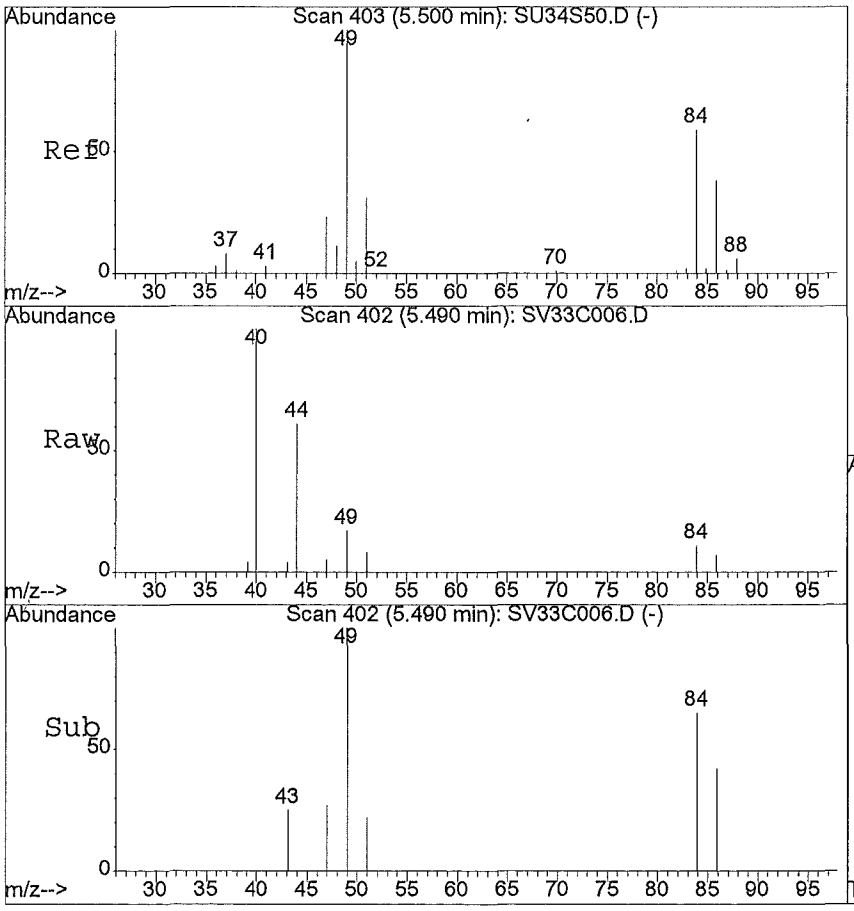


#13
Acetone
Concen: 5.92 ug/Kg
RT: 4.92 min Scan# 344
Delta R.T. 0.03 min
Lab File: SV33C006.D
Acq: 06/11/2015 20:33

Tgt Ion:43 Resp: 15578

Ion	Ratio	Lower	Upper
43	100		
58	8.2	10.9	32.6#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

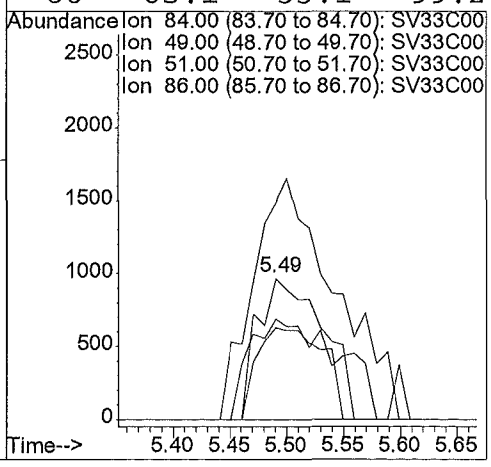


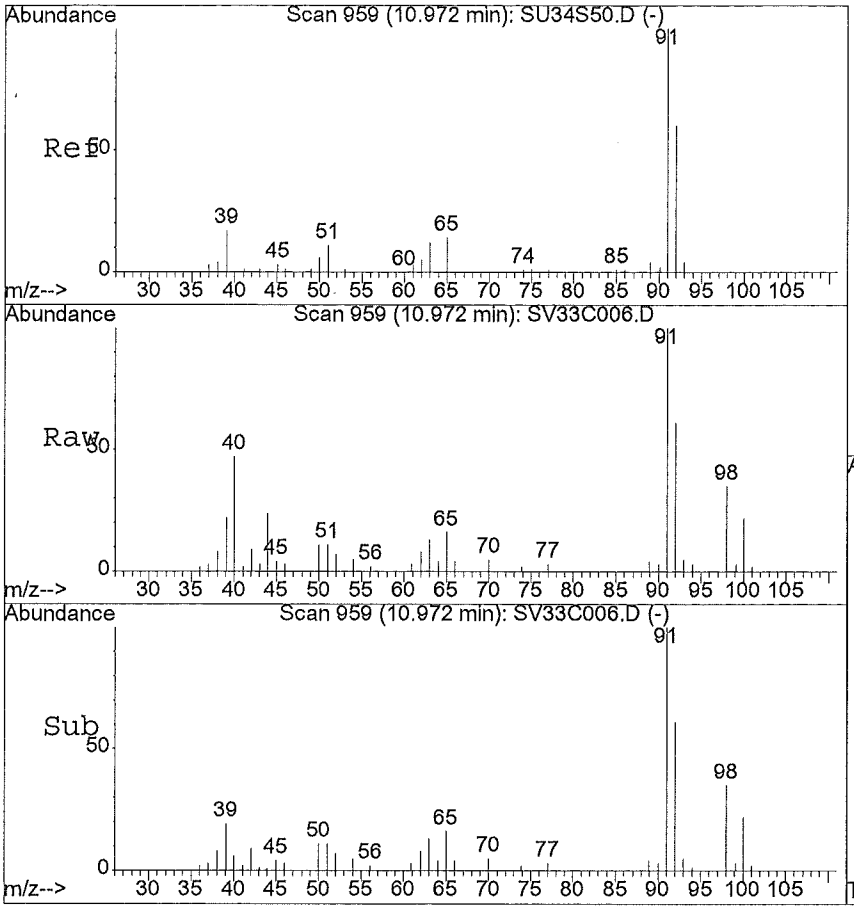


#16
Methylene chloride
Concen: 0.39 ug/Kg
RT: 5.49 min Scan# 402
Delta R.T. -0.01 min
Lab File: SV33C006.D
Acq: 06/11/2015 20:33

Tgt Ion:84 Resp: 3859

Ion	Ratio	Lower	Upper
84	100		
49	214.6	85.4	256.1
51	101.0	26.8	80.4#
86	65.1	33.1	99.2

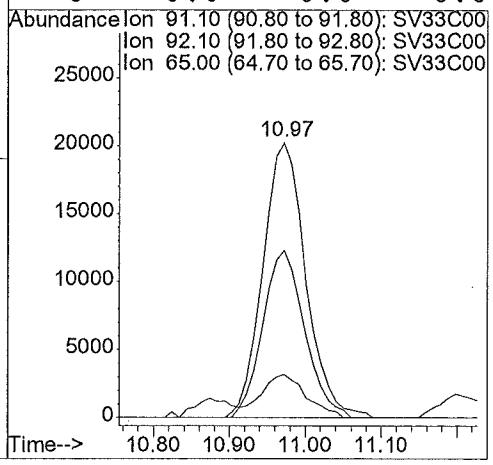




#48
Toluene
Concen: 3.00 ug/Kg
RT: 10.97 min Scan# 959
Delta R.T. 0.00 min
Lab File: SV33C006.D
Acq: 06/11/2015 20:33

Tgt Ion:91.1 Resp: 79431

Ion	Ratio	Lower	Upper
91	100		
92	59.4	48.2	72.2
65	16.5	11.7	17.5
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M87

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725007

Sample wt/vol: 5.07 (g/mL) g Lab File ID: SV34C007

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 9.5 Date Analyzed: 06/11/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.4	U
74-87-3	Chloromethane	5.4	U
75-01-4	Vinyl chloride	5.4	U
74-83-9	Bromomethane	5.4	U
75-00-3	Chloroethane	5.4	U
75-69-4	Trichlorofluoromethane	5.4	U
75-35-4	1,1-Dichloroethene	5.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	U
67-64-1	Acetone	11.	U
75-15-0	Carbon disulfide	5.4	U
79-20-9	Methyl acetate	5.4	U
75-09-2	Methylene chloride	0.38	JB
156-60-5	trans-1,2-Dichloroethene	5.4	U
1634-04-4	Methyl tert-butyl ether	5.4	U
75-34-3	1,1-Dichloroethane	5.4	U
156-59-2	cis-1,2-Dichloroethene	5.4	U
78-93-3	2-Butanone	11.	U
74-97-5	Bromochloromethane	5.4	U
67-66-3	Chloroform	5.4	U
71-55-6	1,1,1-Trichloroethane	5.4	U
110-82-7	Cyclohexane	5.4	U
56-23-5	Carbon tetrachloride	5.4	U
71-43-2	Benzene	5.4	U
107-06-2	1,2-Dichloroethane	5.4	U
123-91-1	1,4-Dioxane	110	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M87

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725007

Sample wt/vol: 5.07 (g/mL) g Lab File ID: SV34C007

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 9.5 Date Analyzed: 06/11/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.4	U
108-87-2	Methylcyclohexane	5.4	U
78-87-5	1,2-Dichloropropane	5.4	U
75-27-4	Bromodichloromethane	5.4	U
10061-01-5	cis-1,3-Dichloropropene	5.4	U
108-10-1	4-Methyl-2-Pentanone	11.	U
108-88-3	Toluene	2.9	J
10061-02-6	trans-1,3-Dichloropropene	5.4	U
79-00-5	1,1,2-Trichloroethane	5.4	U
127-18-4	Tetrachloroethene	5.4	U
591-78-6	2-Hexanone	11.	U
124-48-1	Dibromochloromethane	5.4	U
106-93-4	1,2-Dibromoethane	5.4	U
108-90-7	Chlorobenzene	5.4	U
100-41-4	Ethylbenzene	5.4	U
95-47-6	o-Xylene	5.4	U
179601-23-1	m,p-Xylene	5.4	U
100-42-5	Styrene	5.4	U
75-25-2	Bromoform	5.4	U
98-82-8	Isopropylbenzene	5.4	U
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U
541-73-1	1,3-Dichlorobenzene	5.4	U
106-46-7	1,4-Dichlorobenzene	5.4	U
95-50-1	1,2-Dichlorobenzene	5.4	U
96-12-8	1,2-Dibromo-3-chloropropane	5.4	U
120-82-1	1,2,4-Trichlorobenzene	5.4	U
87-61-6	1,2,3-Trichlorobenzene	5.4	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9M87

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725007

Sample wt/vol: 5.07 (g/mL) g Lab File ID: SV34C007

Level: (TRACE or LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 9.5 Date Analyzed: 06/11/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

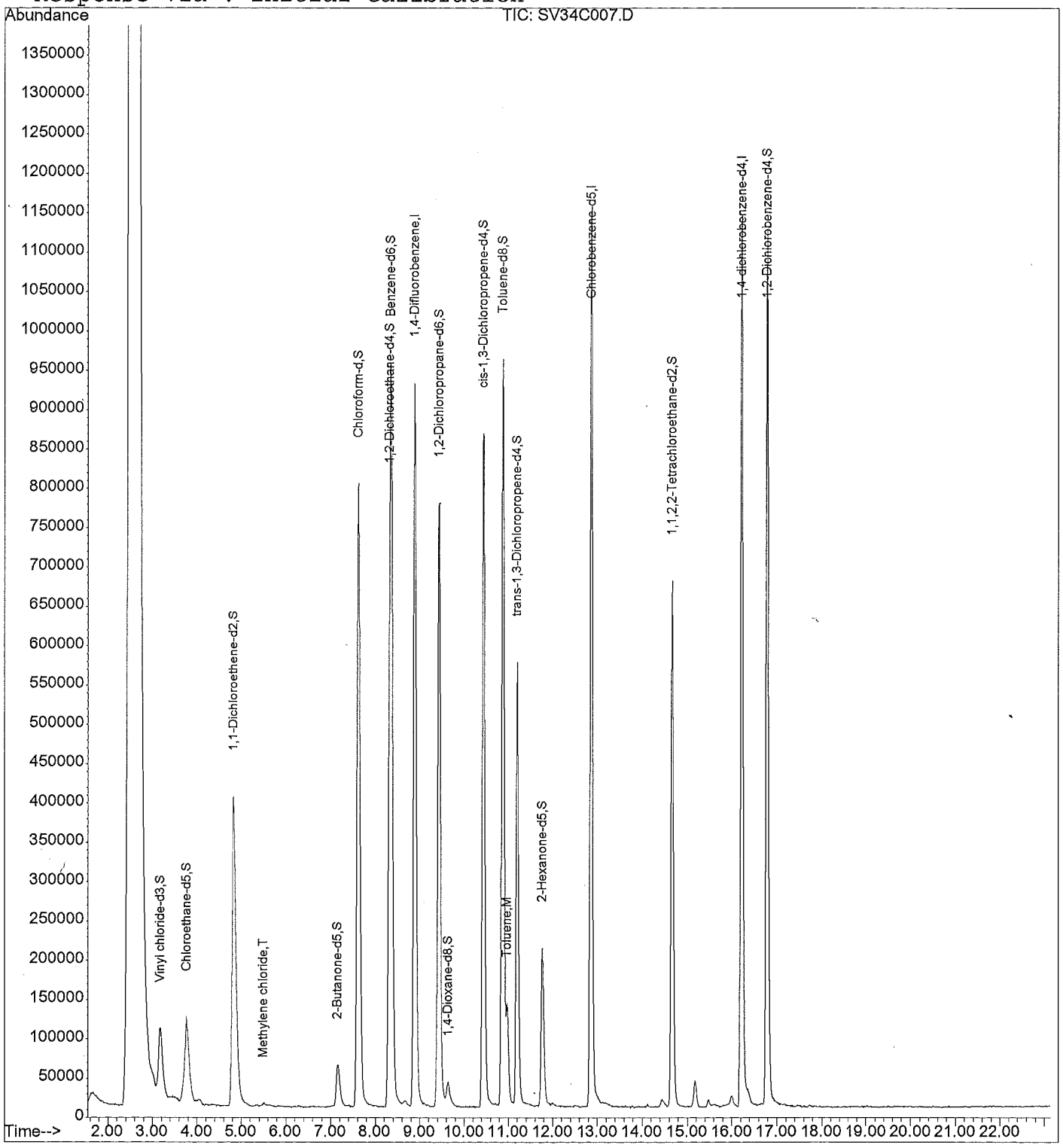
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV34C007.D
Acq Time : 06/11/2015 21:04 Operator: CQC
Sample : 1515725007 F9M87 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:12 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6·13·15



Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV34C007.D
Acq Time : 06/11/2015 21:04 Operator: CQC
Sample : 1515725007 F9M87 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:12 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.88	114	1416630	50.00 ug/Kg	107.31
30) Chlorobenzene-d5	12.87	117	1084897	50.00 ug/Kg	101.35
62) 1,4-dichlorobenzene-d4	16.22	152	533822	50.00 ug/Kg	87.74
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.17	65	368923	40.81 ug/Kg	81.62%
8) Chloroethane-d5	3.76	69	383936	44.64 ug/Kg	89.27%
11) 1,1-Dichloroethene-d2	4.83	63	1002256	33.63 ug/Kg	67.25%
22) 2-Butanone-d5	7.16	46	184219	75.07 ug/Kg	75.07%
25) Chloroform-d	7.62	84	1402052	48.02 ug/Kg	96.04%
27) 1,2-Dichloroethane-d4	8.31	65	672662	50.40 ug/Kg	100.80%
29) 1,4-Dioxane-d8	9.64	96	46554	1127.27 ug/Kg	112.73%
35) Benzene-d6	8.35	84	1356077	50.83 ug/Kg	101.66%
39) 1,2-Dichloropropane-d6	9.43	67	658545	50.12 ug/Kg	100.23%
42) cis-1,3-Dichloropropene-d4	10.44	79	920743	41.83 ug/Kg	83.65%
44) trans-1,3-Dichloropropene-	11.19	79	573924	45.21 ug/Kg	90.43%
49) Toluene-d8	10.87	98	1196169	49.56 ug/Kg	99.12%
52) 2-Hexanone-d5	11.75	63	145316	86.37 ug/Kg	86.37%
61) 1,1,2,2-Tetrachloroethane-	14.67	84	692007	51.06 ug/Kg	102.13%
67) 1,2-Dichlorobenzene-d4	16.78	152	493857	48.26 ug/Kg	96.52%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	0.00	43		Not Detected	
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.50	84	3463	0.35 ug/Kg	70
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV34C007.D
Acq Time : 06/11/2015 21:04 Operator: CQC
Sample : 1515725007 F9M87 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

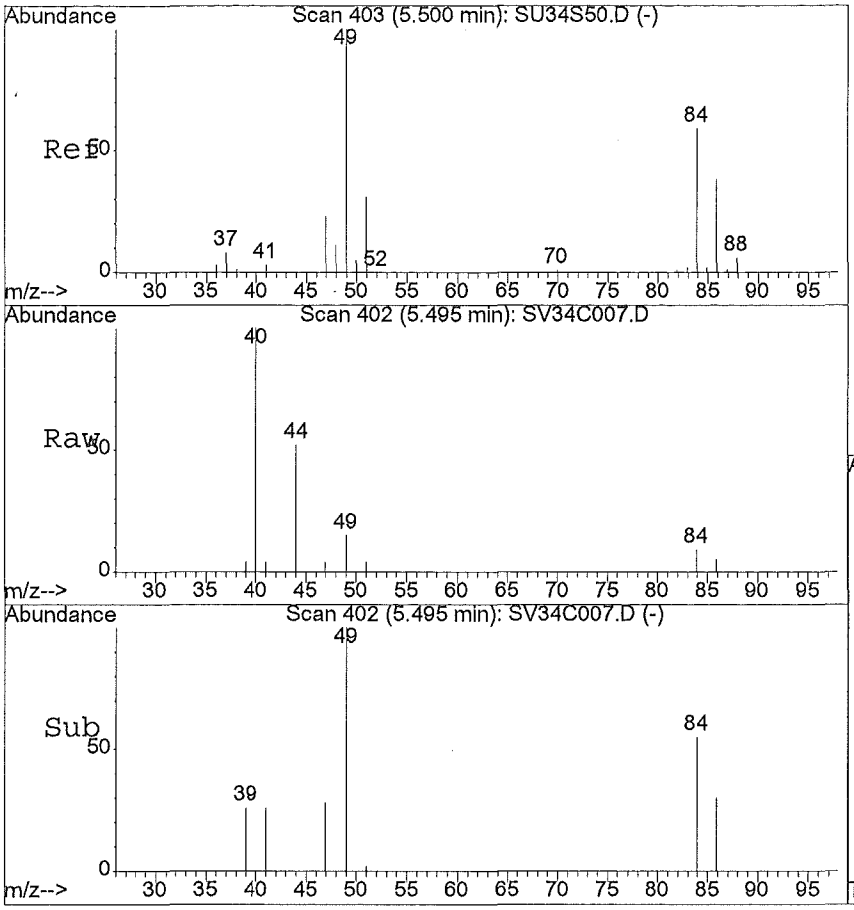
Quant Time: Jun 13 12:12 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	10.97	91	69277	2.65 ug/Kg#	98
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

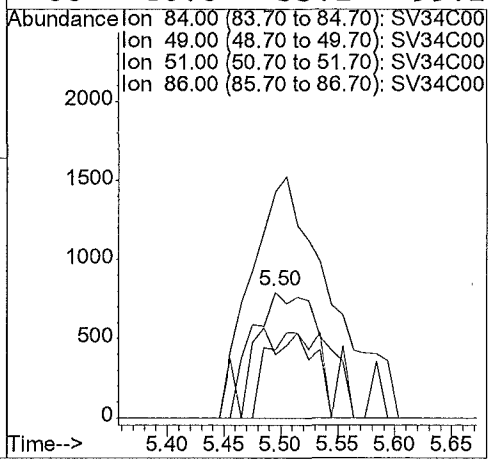
: 00091

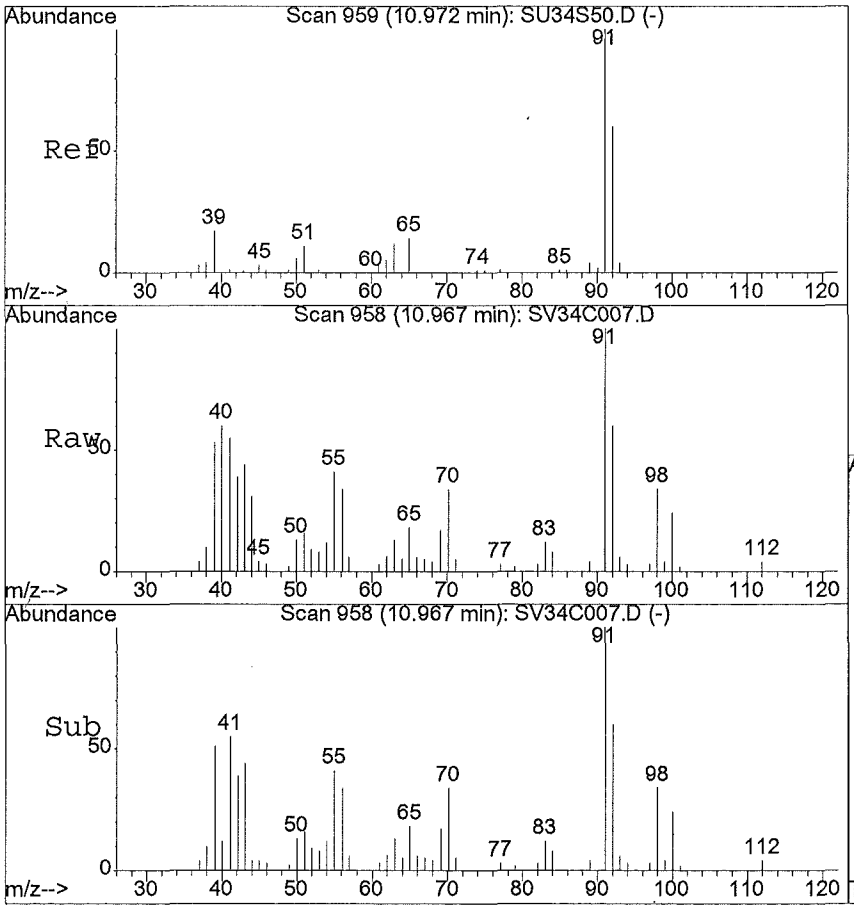


#16
Methylene chloride
Concen: 0.35 ug/Kg
RT: 5.50 min Scan# 402
Delta R.T. -0.01 min
Lab File: SV34C007.D
Acq: 06/11/2015 21:04

Tgt Ion:84 Resp: 3463

Ion	Ratio	Lower	Upper
84	100		
49	213.0	85.4	256.1
51	78.3	26.8	80.4
86	46.8	33.1	99.2

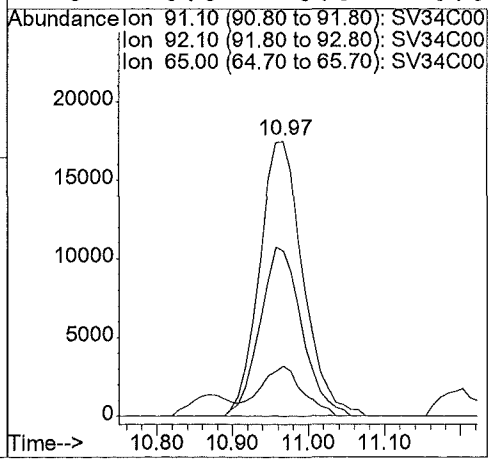




#48
Toluene
Concen: 2.65 ug/Kg
RT: 10.97 min Scan# 958
Delta R.T. -0.01 min
Lab File: SV34C007.D
Acq: 06/11/2015 21:04

Tgt Ion:91.1 Resp: 69277

Ion	Ratio	Lower	Upper
91	100		
92	59.4	48.2	72.2
65	17.8	11.7	17.5#
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M88

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725008

Sample wt/vol: 4.91 (g/mL) g Lab File ID: SV35C008

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 10. Date Analyzed: 06/11/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.7	U
74-87-3	Chloromethane	5.7	U
75-01-4	Vinyl chloride	5.7	U
74-83-9	Bromomethane	5.7	U
75-00-3	Chloroethane	5.7	U
75-69-4	Trichlorofluoromethane	5.7	U
75-35-4	1,1-Dichloroethene	5.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.7	U
67-64-1	Acetone	11.	U
75-15-0	Carbon disulfide	5.7	U
79-20-9	Methyl acetate	5.7	U
75-09-2	Methylene chloride	0.72	JB
156-60-5	trans-1,2-Dichloroethene	5.7	U
1634-04-4	Methyl tert-butyl ether	5.7	U
75-34-3	1,1-Dichloroethane	5.7	U
156-59-2	cis-1,2-Dichloroethene	5.7	U
78-93-3	2-Butanone	11.	U
74-97-5	Bromochloromethane	5.7	U
67-66-3	Chloroform	5.7	U
71-55-6	1,1,1-Trichloroethane	5.7	U
110-82-7	Cyclohexane	5.7	U
56-23-5	Carbon tetrachloride	5.7	U
71-43-2	Benzene	5.7	U
107-06-2	1,2-Dichloroethane	5.7	U
123-91-1	1,4-Dioxane	110	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M88

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725008

Sample wt/vol: 4.91 (g/mL) g Lab File ID: SV35C008

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 10. Date Analyzed: 06/11/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.7	U
108-87-2	Methylcyclohexane	5.7	U
78-87-5	1,2-Dichloropropane	5.7	U
75-27-4	Bromodichloromethane	5.7	U
10061-01-5	cis-1,3-Dichloropropene	5.7	U
108-10-1	4-Methyl-2-Pentanone	11.	U
108-88-3	Toluene	7.2	
10061-02-6	trans-1,3-Dichloropropene	5.7	U
79-00-5	1,1,2-Trichloroethane	5.7	U
127-18-4	Tetrachloroethene	5.7	U
591-78-6	2-Hexanone	11.	U
124-48-1	Dibromochloromethane	5.7	U
106-93-4	1,2-Dibromoethane	5.7	U
108-90-7	Chlorobenzene	5.7	U
100-41-4	Ethylbenzene	5.7	U
95-47-6	o-Xylene	5.7	U
179601-23-1	m,p-Xylene	0.33	J
100-42-5	Styrene	5.7	U
75-25-2	Bromoform	5.7	U
98-82-8	Isopropylbenzene	5.7	U
79-34-5	1,1,2,2-Tetrachloroethane	5.7	U
541-73-1	1,3-Dichlorobenzene	5.7	U
106-46-7	1,4-Dichlorobenzene	5.7	U
95-50-1	1,2-Dichlorobenzene	5.7	U
96-12-8	1,2-Dibromo-3-chloropropane	5.7	U
120-82-1	1,2,4-Trichlorobenzene	5.7	U
87-61-6	1,2,3-Trichlorobenzene	5.7	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M88

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725008
Sample wt/vol: 4.91 (g/mL) g Lab File ID: SV35C008
Level: (TRACE or LOW/MED) LOW Date Received: 06/05/2015
% Moisture: not dec. 10. Date Analyzed: 06/11/2015
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

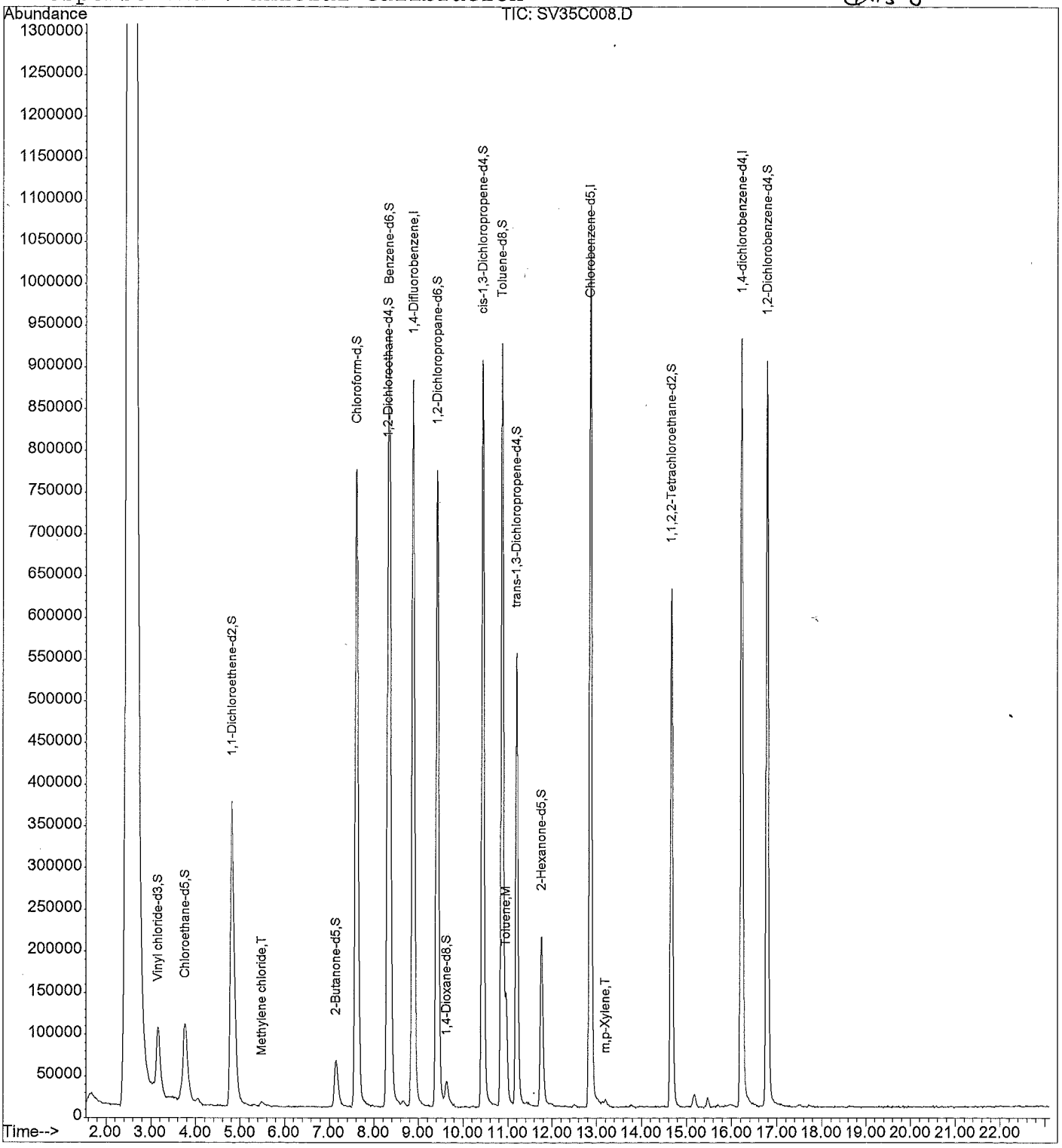
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV35C008.D
Acq Time : 06/11/2015 21:34 Operator: CQC
Sample : 1515725008 F9M88 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:13 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6.13.15



Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV35C008.D
Acq Time : 06/11/2015 21:34 Operator: CQC
Sample : 1515725008 F9M88 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:13 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.88	114	1373246	50.00 ug/Kg	104.03
30) Chlorobenzene-d5	12.86	117	1014153	50.00 ug/Kg	94.74
62) 1,4-dichlorobenzene-d4	16.22	152	435941	50.00 ug/Kg	71.65
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.16	65	352179	40.19 ug/Kg	80.38%
8) Chloroethane-d5	3.76	69	368587	44.21 ug/Kg	88.41%
11) 1,1-Dichloroethene-d2	4.81	63	953728	33.01 ug/Kg	66.02%
22) 2-Butanone-d5	7.14	46	191903	80.68 ug/Kg	80.68%
25) Chloroform-d	7.61	84	1368167	48.34 ug/Kg	96.68%
27) 1,2-Dichloroethane-d4	8.30	65	661576	51.14 ug/Kg	102.28%
29) 1,4-Dioxane-d8	9.64	96	46475	1160.91 ug/Kg	116.09%
35) Benzene-d6	8.34	84	1340522	53.75 ug/Kg	107.50%
39) 1,2-Dichloropropane-d6	9.42	67	649992	52.92 ug/Kg	105.83%
42) cis-1,3-Dichloropropene-d4	10.44	79	955483	46.43 ug/Kg	92.86%
44) trans-1,3-Dichloropropene-	11.19	79	559013	47.11 ug/Kg	94.22%
49) Toluene-d8	10.87	98	1156620	51.26 ug/Kg	102.53%
52) 2-Hexanone-d5	11.76	63	146198	92.96 ug/Kg	92.96%
61) 1,1,2,2-Tetrachloroethane-	14.67	84	651047	51.39 ug/Kg	102.78%
67) 1,2-Dichlorobenzene-d4	16.78	152	408130	48.84 ug/Kg	97.67%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	0.00	43		Not Detected	
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.50	84	6067	0.63 ug/Kg#	81
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV35C008.D
Acq Time : 06/11/2015 21:34 Operator: CQC
Sample : 1515725008 F9M88 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

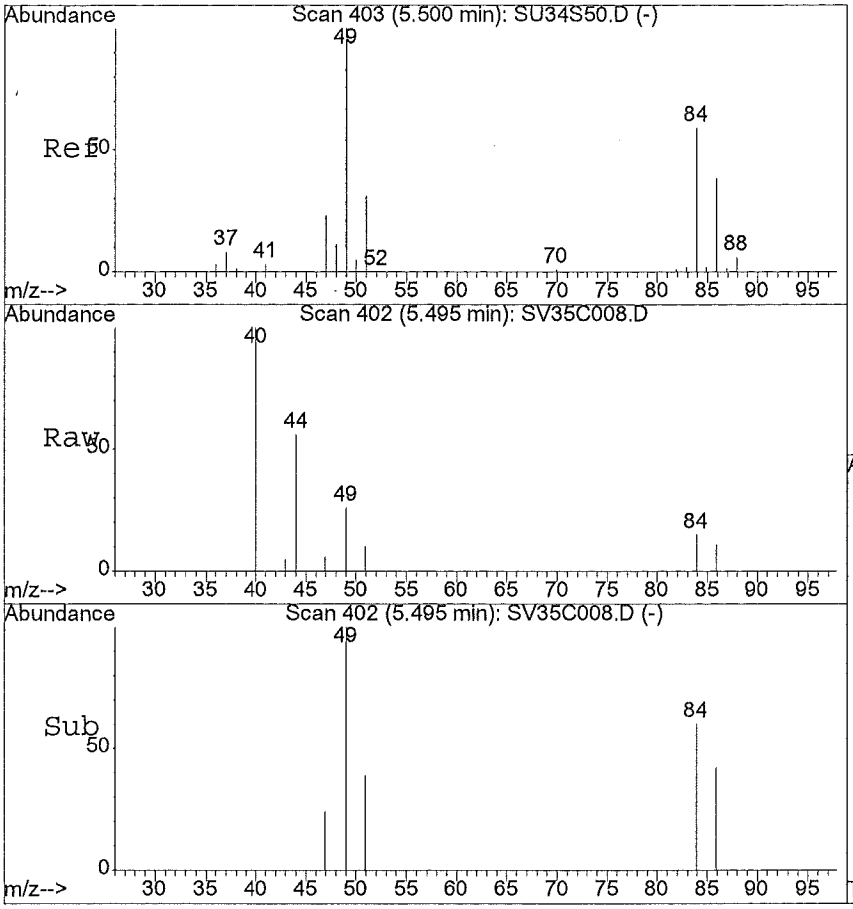
Quant Time: Jun 13 12:13 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	10.97	91	154459	6.32 ug/Kg#	97
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	13.21	106	3167	0.29 ug/Kg	78
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

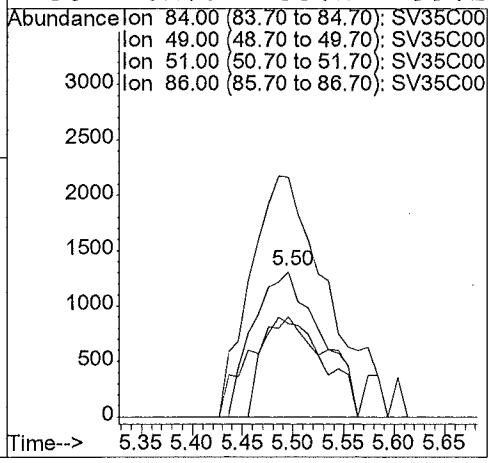
: 00098

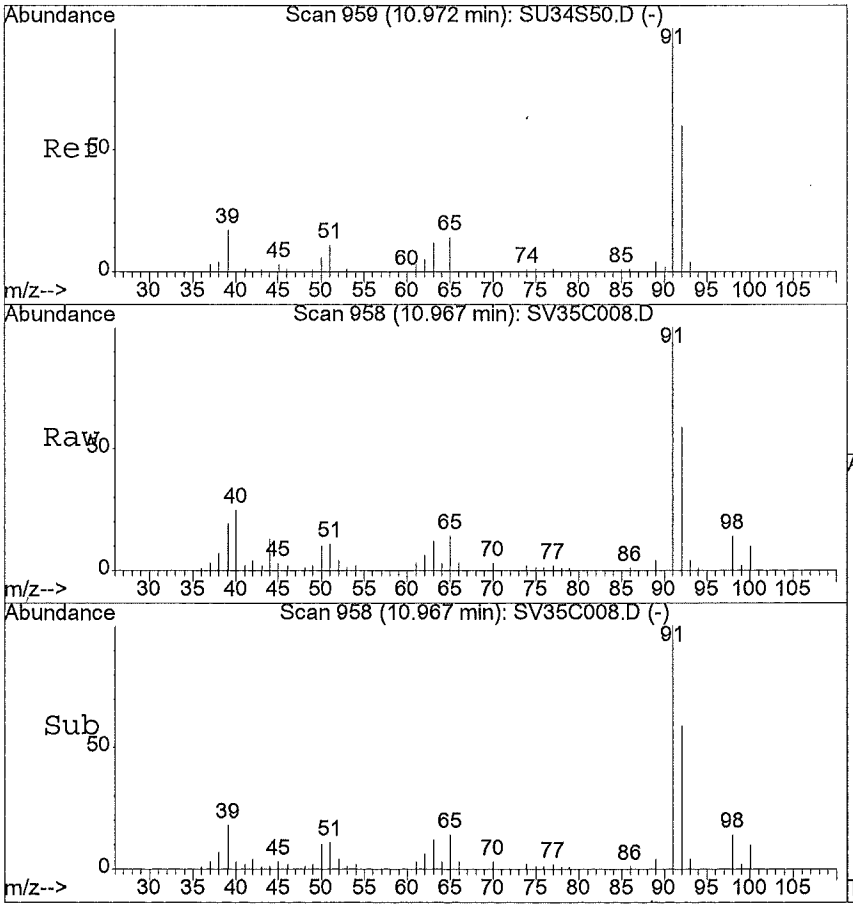


#16
Methylene chloride
Concen: 0.63 ug/Kg
RT: 5.50 min Scan# 402
Delta R.T. -0.00 min
Lab File: SV35C008.D
Acq: 06/11/2015 21:34

Tgt Ion:84 Resp: 6067

Ion	Ratio	Lower	Upper
84	100		
49	191.0	85.4	256.1
51	87.1	26.8	80.4#
86	61.0	33.1	99.2

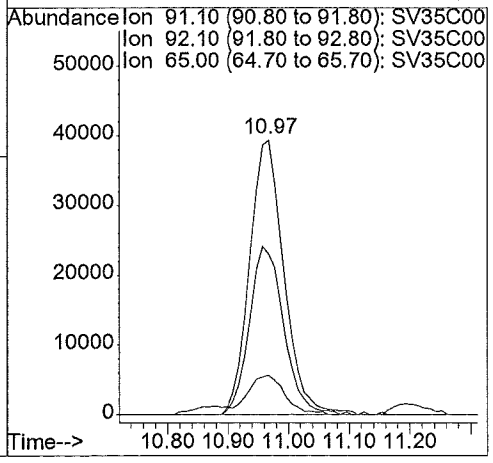


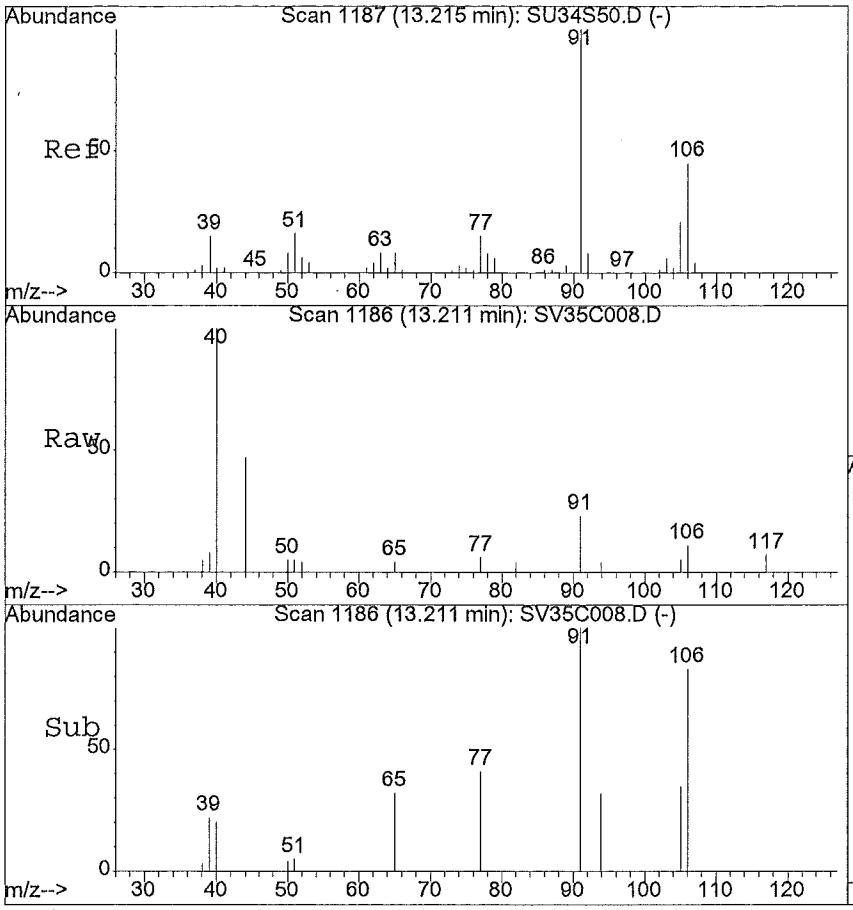


#48
Toluene
Concen: 6.32 ug/Kg
RT: 10.97 min Scan# 958
Delta R.T. -0.00 min
Lab File: SV35C008.D
Acq: 06/11/2015 21:34

Tgt Ion:91.1 Resp: 154459

Ion	Ratio	Lower	Upper
91	100		
92	61.0	48.2	72.2
65	18.5	11.7	17.5#
0	0.0	0.0	0.0

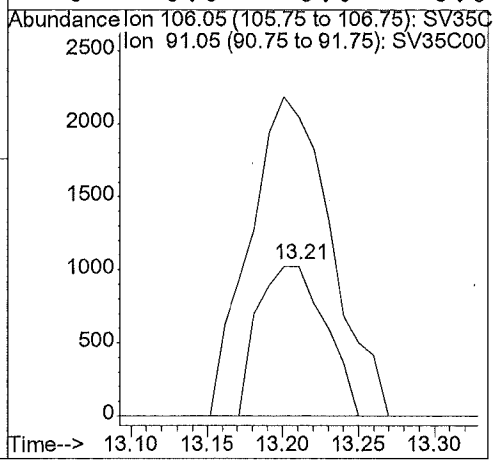




#56
m,p-Xylene
Concen: 0.29 ug/Kg
RT: 13.21 min Scan# 1186
Delta R.T. -0.00 min
Lab File: SV35C008.D
Acq: 06/11/2015 21:34

Tgt Ion:106.05 Resp: 3167

Ion	Ratio	Lower	Upper
106	100		
91	256.6	176.6	264.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M89

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725009

Sample wt/vol: 4.77 (g/mL) g Lab File ID: SV36C009

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 10. Date Analyzed: 06/11/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.8	U
74-87-3	Chloromethane	5.8	U
75-01-4	Vinyl chloride	5.8	U
74-83-9	Bromomethane	5.8	U
75-00-3	Chloroethane	5.8	U
75-69-4	Trichlorofluoromethane	5.8	U
75-35-4	1,1-Dichloroethene	5.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U
67-64-1	Acetone	7.9	J
75-15-0	Carbon disulfide	5.8	U
79-20-9	Methyl acetate	5.8	U
75-09-2	Methylene chloride	5.8	U
156-60-5	trans-1,2-Dichloroethene	5.8	U
1634-04-4	Methyl tert-butyl ether	5.8	U
75-34-3	1,1-Dichloroethane	5.8	U
156-59-2	cis-1,2-Dichloroethene	5.8	U
78-93-3	2-Butanone	12.	U
74-97-5	Bromochloromethane	5.8	U
67-66-3	Chloroform	5.8	U
71-55-6	1,1,1-Trichloroethane	5.8	U
110-82-7	Cyclohexane	5.8	U
56-23-5	Carbon tetrachloride	5.8	U
71-43-2	Benzene	5.8	U
107-06-2	1,2-Dichloroethane	5.8	U
123-91-1	1,4-Dioxane	120	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M89

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725009

Sample wt/vol: 4.77 (g/mL) g Lab File ID: SV36C009

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 10. Date Analyzed: 06/11/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.8	U
108-87-2	Methylcyclohexane	5.8	U
78-87-5	1,2-Dichloropropane	5.8	U
75-27-4	Bromodichloromethane	5.8	U
10061-01-5	cis-1,3-Dichloropropene	5.8	U
108-10-1	4-Methyl-2-Pentanone	12.	U
108-88-3	Toluene	5.8	U
10061-02-6	trans-1,3-Dichloropropene	5.8	U
79-00-5	1,1,2-Trichloroethane	5.8	U
127-18-4	Tetrachloroethene	5.8	U
591-78-6	2-Hexanone	12.	U
124-48-1	Dibromochloromethane	5.8	U
106-93-4	1,2-Dibromoethane	5.8	U
108-90-7	Chlorobenzene	5.8	U
100-41-4	Ethylbenzene	5.8	U
95-47-6	o-Xylene	5.8	U
179601-23-1	m,p-Xylene	5.8	U
100-42-5	Styrene	5.8	U
75-25-2	Bromoform	5.8	U
98-82-8	Isopropylbenzene	5.8	U
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U
541-73-1	1,3-Dichlorobenzene	5.8	U
106-46-7	1,4-Dichlorobenzene	5.8	U
95-50-1	1,2-Dichlorobenzene	5.8	U
96-12-8	1,2-Dibromo-3-chloropropane	5.8	U
120-82-1	1,2,4-Trichlorobenzene	5.8	U
87-61-6	1,2,3-Trichlorobenzene	5.8	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M89

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725009
Sample wt/vol: 4.77 (g/mL) g Lab File ID: SV36C009
Level: (TRACE or LOW/MED) LOW Date Received: 06/05/2015
% Moisture: not dec. 10. Date Analyzed: 06/11/2015
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

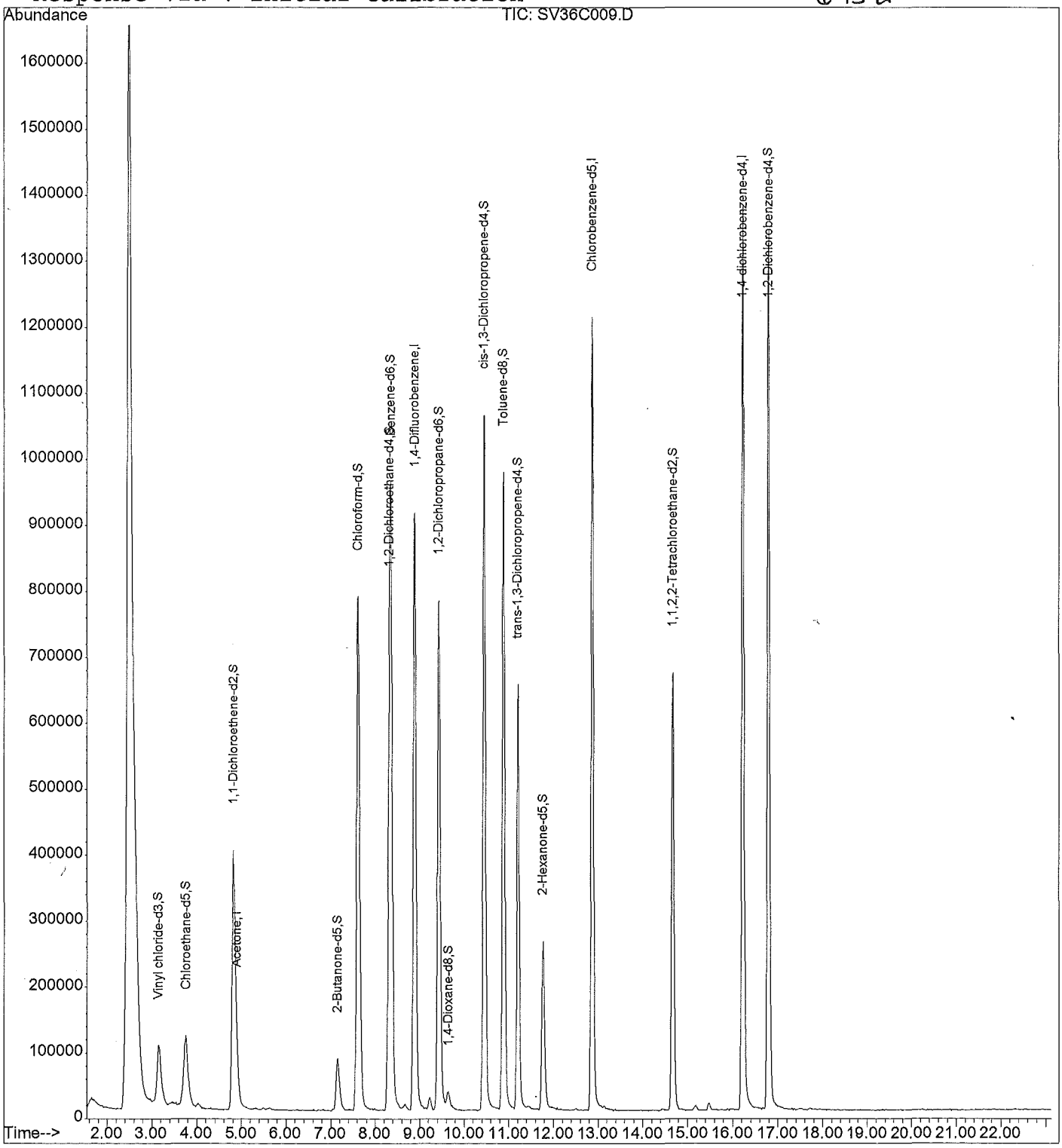
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV36C009.D
Acq Time : 06/11/2015 22:04 Operator: CQC
Sample : 1515725009 F9M89 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:13 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6.13.15



Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV36C009.D
Acq Time : 06/11/2015 22:04 Operator: CQC
Sample : 1515725009 F9M89 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:13 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.89	114	1425222	50.00 ug/Kg	107.96
30) Chlorobenzene-d5	12.86	117	1135108	50.00 ug/Kg	106.04
62) 1,4-dichlorobenzene-d4	16.22	152	629741	50.00 ug/Kg	103.51
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.15	65	369809	40.66 ug/Kg	81.32%
8) Chloroethane-d5	3.75	69	380789	44.00 ug/Kg	88.01%
11) 1,1-Dichloroethene-d2	4.82	63	987763	32.94 ug/Kg	65.88%
22) 2-Butanone-d5	7.14	46	246087	99.68 ug/Kg	99.68%
25) Chloroform-d	7.62	84	1385118	47.15 ug/Kg	94.31%
27) 1,2-Dichloroethane-d4	8.30	65	667695	49.73 ug/Kg	99.46%
29) 1,4-Dioxane-d8	9.64	96	40143	966.18 ug/Kg	96.62%
35) Benzene-d6	8.34	84	1376922	49.33 ug/Kg	98.65%
39) 1,2-Dichloropropane-d6	9.43	67	658449	47.89 ug/Kg	95.79%
42) cis-1,3-Dichloropropene-d4	10.44	79	1131385	49.12 ug/Kg	98.24%
44) trans-1,3-Dichloropropene-	11.20	79	657068	49.47 ug/Kg	98.95%
49) Toluene-d8	10.87	98	1228144	48.63 ug/Kg	97.27%
52) 2-Hexanone-d5	11.76	63	174178	98.95 ug/Kg	98.95%
61) 1,1,2,2-Tetrachloroethane-	14.67	84	702310	49.53 ug/Kg	99.06%
67) 1,2-Dichlorobenzene-d4	16.79	152	607143	50.29 ug/Kg	100.59%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	4.90	43	17946	6.76 ug/Kg	82
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	0.00	84		Not Detected	
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

: 00105

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV36C009.D
Acq Time : 06/11/2015 22:04 Operator: CQC
Sample : 1515725009 F9M89 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

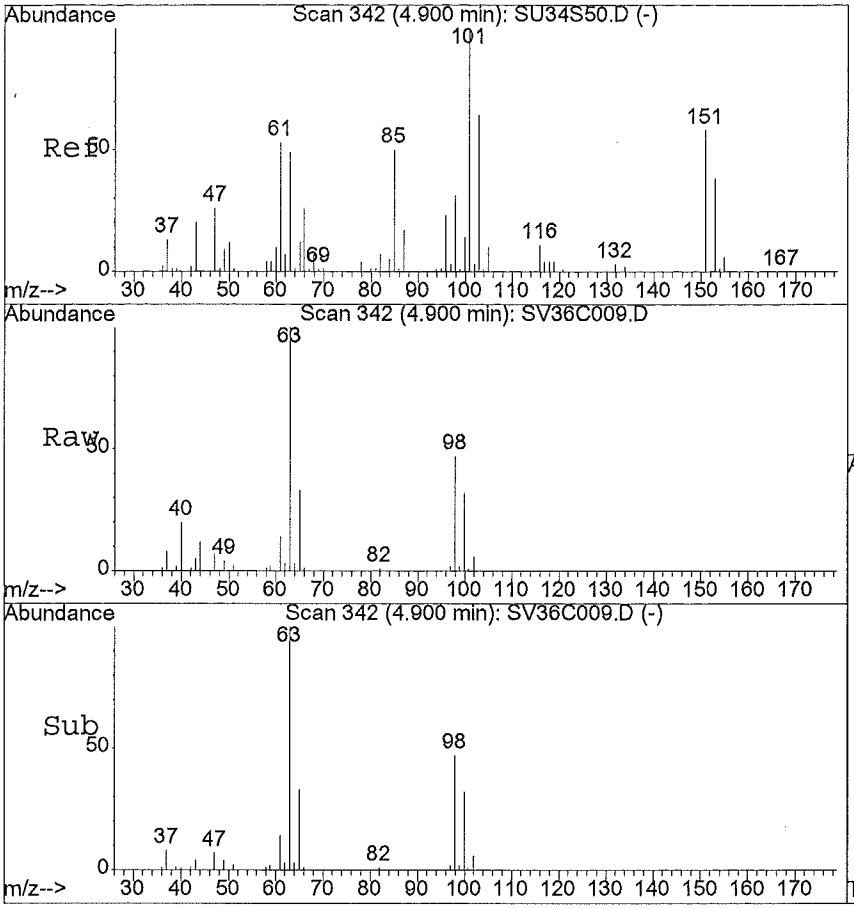
Quant Time: Jun 13 12:13 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	0.00	91		Not Detected	
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

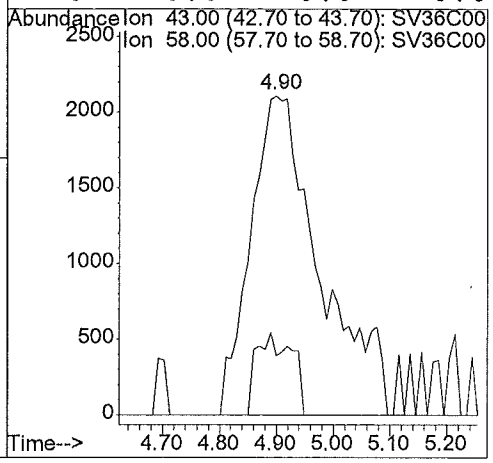
00166



#13
Acetone
Concen: 6.76 ug/Kg
RT: 4.90 min Scan# 342
Delta R.T. 0.01 min
Lab File: SV36C009.D
Acq: 06/11/2015 22:04

Tgt Ion:43 Resp: 17946

Ion	Ratio	Lower	Upper
43	100		
58	13.1	10.9	32.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0



:00197

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M90

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725010

Sample wt/vol: 4.23 (g/mL) g Lab File ID: SV37C010

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 10. Date Analyzed: 06/11/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	6.6	U
74-87-3	Chloromethane	6.6	U
75-01-4	Vinyl chloride	6.6	U
74-83-9	Bromomethane	6.6	U
75-00-3	Chloroethane	6.6	U
75-69-4	Trichlorofluoromethane	6.6	U
75-35-4	1,1-Dichloroethene	6.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.6	U
67-64-1	Acetone	16.	
75-15-0	Carbon disulfide	6.6	U
79-20-9	Methyl acetate	6.6	U
75-09-2	Methylene chloride	0.39	JB
156-60-5	trans-1,2-Dichloroethene	6.6	U
1634-04-4	Methyl tert-butyl ether	6.6	U
75-34-3	1,1-Dichloroethane	6.6	U
156-59-2	cis-1,2-Dichloroethene	6.6	U
78-93-3	2-Butanone	13.	U
74-97-5	Bromochloromethane	6.6	U
67-66-3	Chloroform	6.6	U
71-55-6	1,1,1-Trichloroethane	6.6	U
110-82-7	Cyclohexane	6.6	U
56-23-5	Carbon tetrachloride	6.6	U
71-43-2	Benzene	6.6	U
107-06-2	1,2-Dichloroethane	6.6	U
123-91-1	1,4-Dioxane	130	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M90

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725010

Sample wt/vol: 4.23 (g/mL) g Lab File ID: SV37C010

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 10. Date Analyzed: 06/11/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	6.6	U
108-87-2	Methylcyclohexane	6.6	U
78-87-5	1,2-Dichloropropane	6.6	U
75-27-4	Bromodichloromethane	6.6	U
10061-01-5	cis-1,3-Dichloropropene	6.6	U
108-10-1	4-Methyl-2-Pentanone	13.	U
108-88-3	Toluene	1.1	J
10061-02-6	trans-1,3-Dichloropropene	6.6	U
79-00-5	1,1,2-Trichloroethane	6.6	U
127-18-4	Tetrachloroethene	6.6	U
591-78-6	2-Hexanone	13.	U
124-48-1	Dibromochloromethane	6.6	U
106-93-4	1,2-Dibromoethane	6.6	U
108-90-7	Chlorobenzene	6.6	U
100-41-4	Ethylbenzene	6.6	U
95-47-6	o-Xylene	6.6	U
179601-23-1	m,p-Xylene	6.6	U
100-42-5	Styrene	6.6	U
75-25-2	Bromoform	6.6	U
98-82-8	Isopropylbenzene	6.6	U
79-34-5	1,1,2,2-Tetrachloroethane	6.6	U
541-73-1	1,3-Dichlorobenzene	6.6	U
106-46-7	1,4-Dichlorobenzene	6.6	U
95-50-1	1,2-Dichlorobenzene	6.6	U
96-12-8	1,2-Dibromo-3-chloropropane	6.6	U
120-82-1	1,2,4-Trichlorobenzene	6.6	U
87-61-6	1,2,3-Trichlorobenzene	6.6	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M90

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725010
Sample wt/vol: 4.23 (g/mL) g Lab File ID: SV37C010
Level: (TRACE or LOW/MED) LOW Date Received: 06/05/2015
% Moisture: not dec. 10. Date Analyzed: 06/11/2015
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

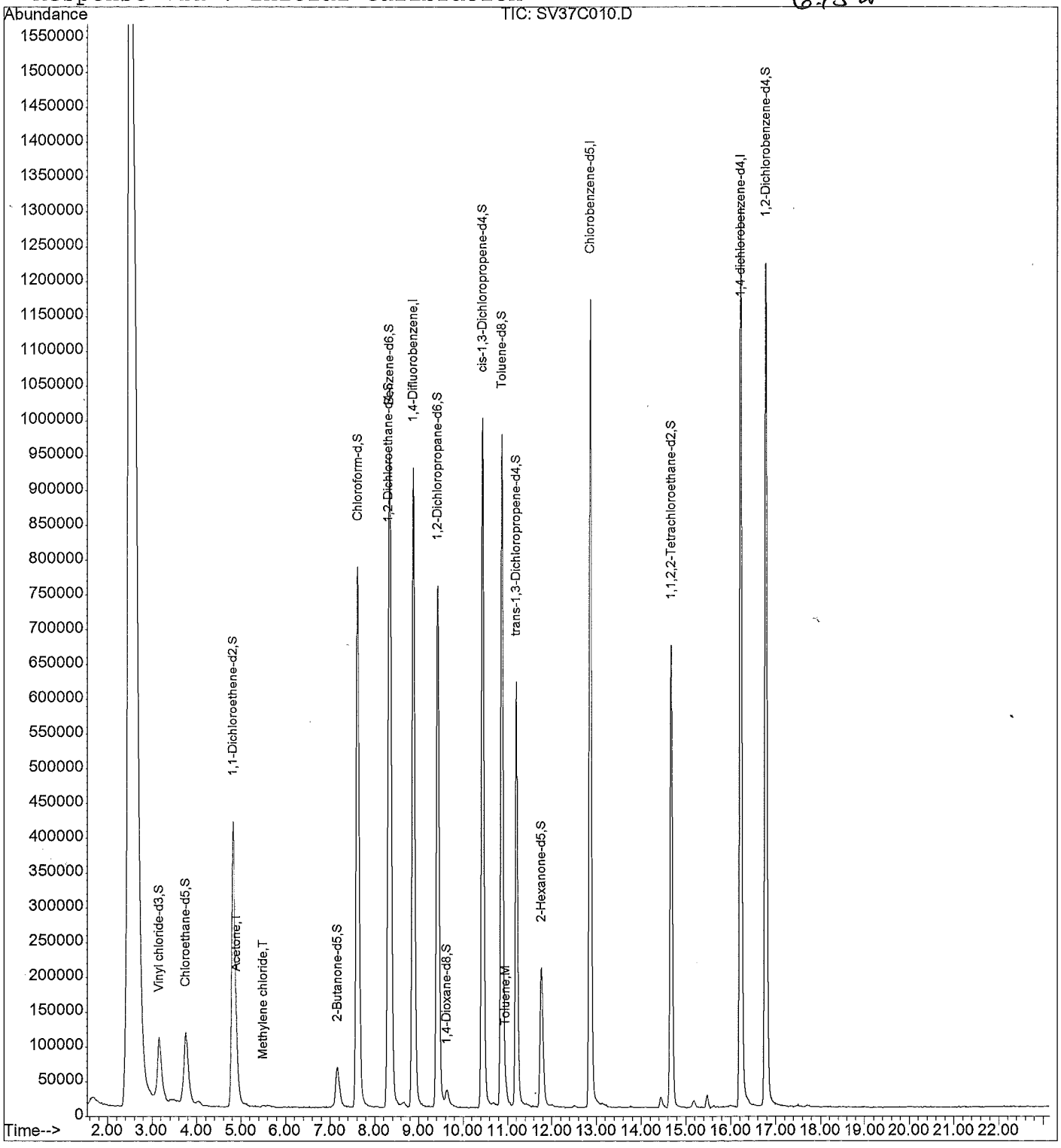
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV37C010.D
Acq Time : 06/11/2015 22:34 Operator: CQC
Sample : 1515725010 F9M90 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:13 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6-13-W



: 00111

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV37C010.D
Acq Time : 06/11/2015 22:34 Operator: CQC
Sample : 1515725010 F9M90 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:13 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.88	114	1416566	50.00 ug/Kg	107.31
30) Chlorobenzene-d5	12.86	117	1097878	50.00 ug/Kg	102.57
62) 1,4-dichlorobenzene-d4	16.22	152	592614	50.00 ug/Kg	97.40
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.17	65	373068	41.27 ug/Kg	82.54%
8) Chloroethane-d5	3.76	69	375878	43.70 ug/Kg	87.40%
11) 1,1-Dichloroethene-d2	4.82	63	993185	33.32 ug/Kg	66.65%
22) 2-Butanone-d5	7.15	46	166113	67.70 ug/Kg	67.70%
25) Chloroform-d	7.62	84	1369712	46.92 ug/Kg	93.83%
27) 1,2-Dichloroethane-d4	8.30	65	649758	48.69 ug/Kg	97.38%
29) 1,4-Dioxane-d8	9.63	96	38651	935.95 ug/Kg	93.59%
35) Benzene-d6	8.34	84	1363090	50.49 ug/Kg	100.98%
39) 1,2-Dichloropropane-d6	9.43	67	649675	48.86 ug/Kg	97.71%
42) cis-1,3-Dichloropropene-d4	10.44	79	1054598	47.34 ug/Kg	94.68%
44) trans-1,3-Dichloropropene-	11.20	79	615844	47.94 ug/Kg	95.89%
49) Toluene-d8	10.87	98	1211752	49.61 ug/Kg	99.22%
52) 2-Hexanone-d5	11.76	63	125488	73.71 ug/Kg	73.71%
61) 1,1,2,2-Tetrachloroethane-	14.67	84	692020	50.46 ug/Kg	100.92%
67) 1,2-Dichlorobenzene-d4	16.79	152	558697	49.18 ug/Kg	98.36%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	4.91	43	32331	12.24 ug/Kg	90
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.50	84	2913	0.29 ug/Kg#	70
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV37C010.D
Acq Time : 06/11/2015 22:34 Operator: CQC
Sample : 1515725010 F9M90 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

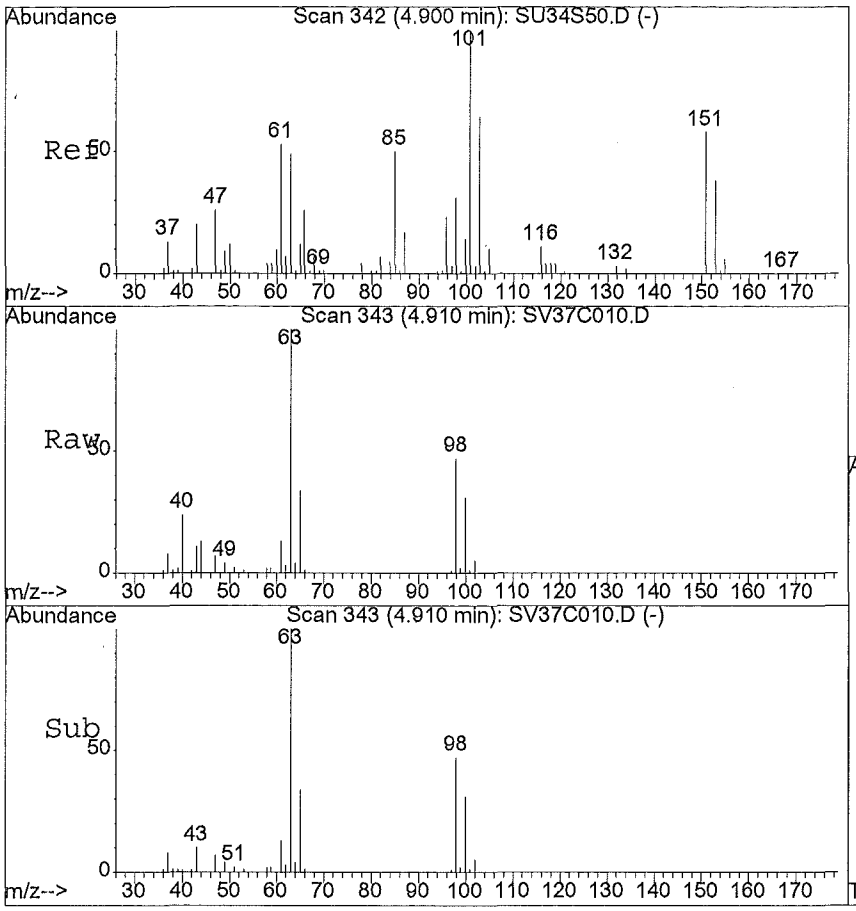
Quant Time: Jun 13 12:13 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	10.96	91	21810	0.82 ug/Kg#	97
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

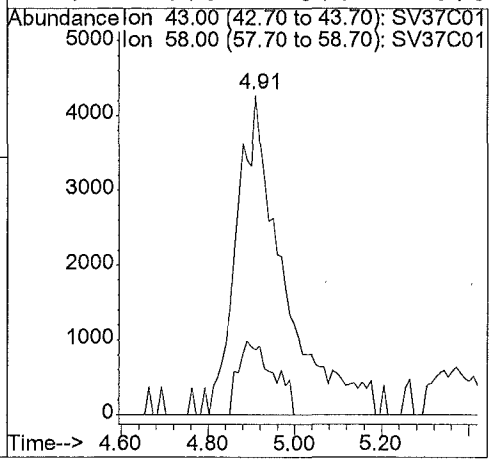
:00113

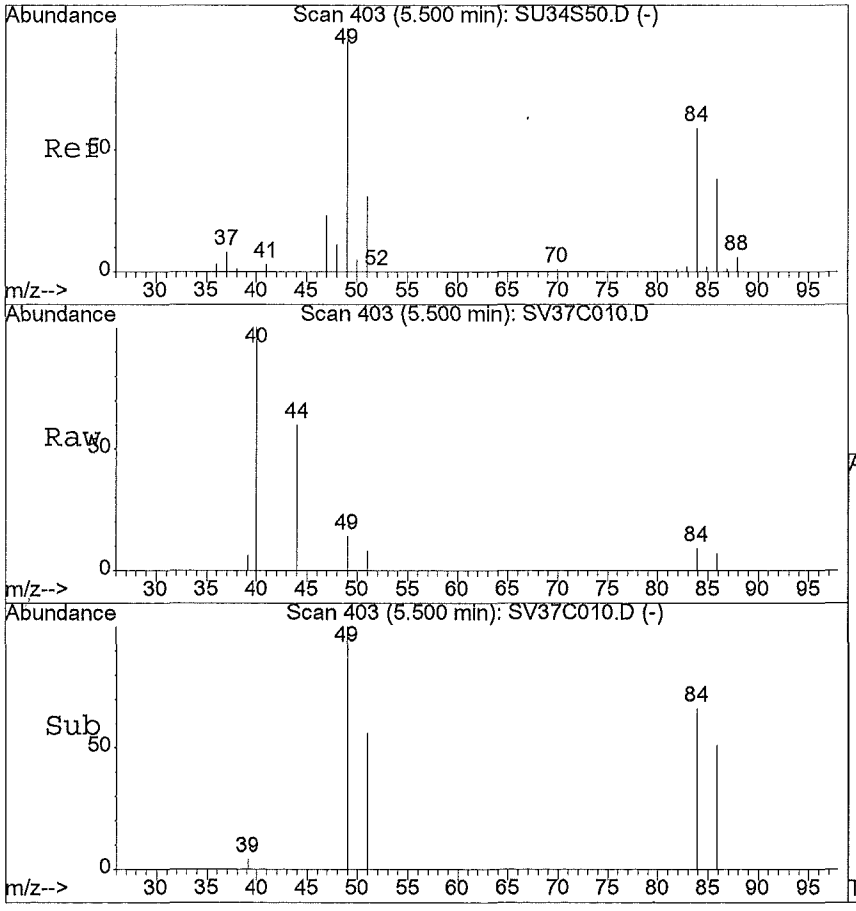


#13
Acetone
Concen: 12.24 ug/Kg
RT: 4.91 min Scan# 343
Delta R.T. 0.02 min
Lab File: SV37C010.D
Acq: 06/11/2015 22:34

Tgt Ion:43 Resp: 32331

Ion	Ratio	Lower	Upper
43	100		
58	16.9	10.9	32.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0

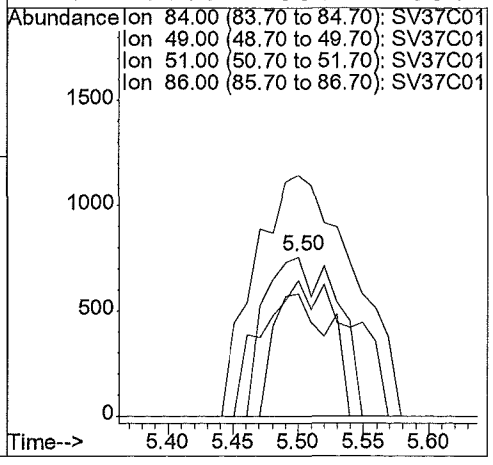


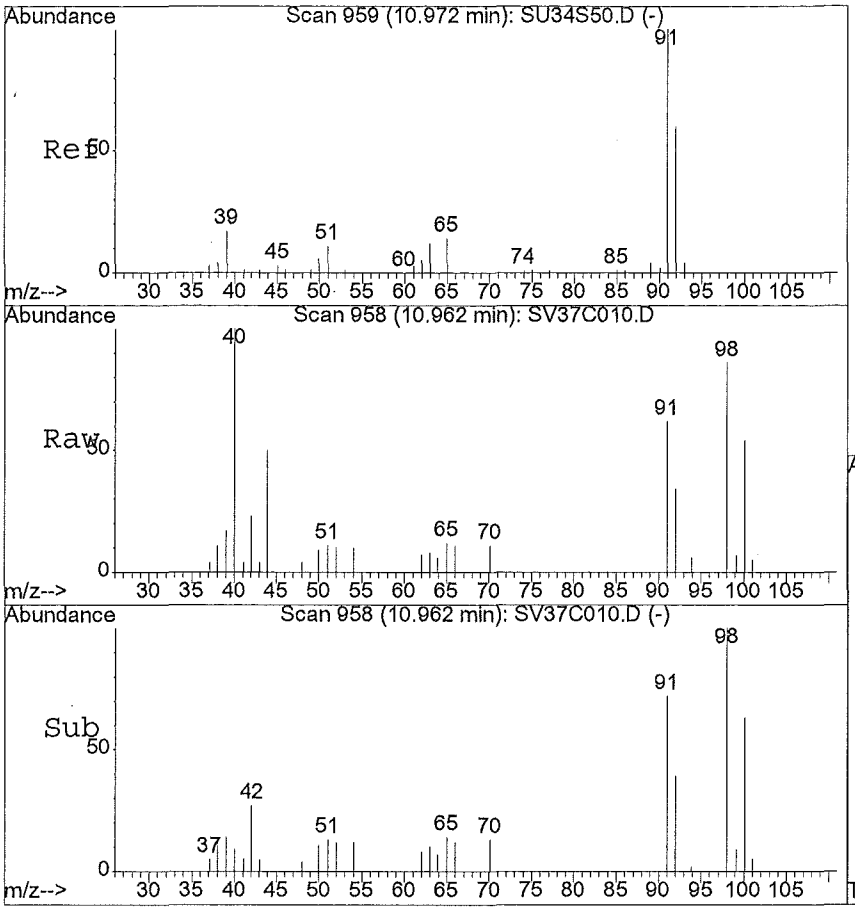


#16
Methylene chloride
Concen: 0.29 ug/Kg
RT: 5.50 min Scan# 403
Delta R.T. -0.00 min
Lab File: SV37C010.D
Acq: 06/11/2015 22:34

Tgt Ion:84 Resp: 2913

Ion	Ratio	Lower	Upper
84	100		
49	205.0	85.4	256.1
51	106.0	26.8	80.4#
86	58.5	33.1	99.2

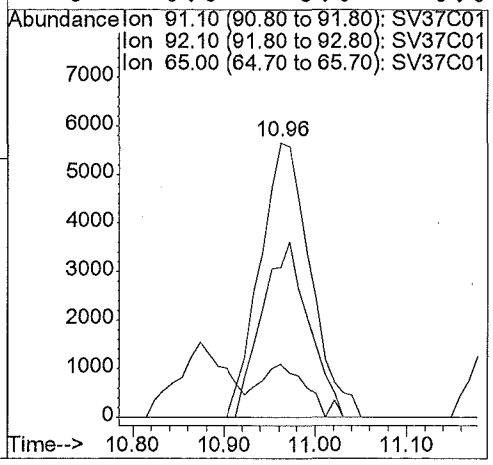




#48
Toluene
Concen: 0.82 ug/Kg
RT: 10.96 min Scan# 958
Delta R.T. -0.01 min
Lab File: SV37C010.D
Acq: 06/11/2015 22:34

Tgt Ion:91.1 Resp: 21810

Ion	Ratio	Lower	Upper
91	100		
92	59.1	48.2	72.2
65	18.2	11.7	17.5#
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M91

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725011

Sample wt/vol: 4.63 (g/mL) g Lab File ID: SV38C011

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 8.4 Date Analyzed: 06/11/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.9	U
74-87-3	Chloromethane	5.9	U
75-01-4	Vinyl chloride	5.9	U
74-83-9	Bromomethane	5.9	U
75-00-3	Chloroethane	5.9	U
75-69-4	Trichlorofluoromethane	5.9	U
75-35-4	1,1-Dichloroethene	5.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.9	U
67-64-1	Acetone	7.0	J
75-15-0	Carbon disulfide	5.9	U
79-20-9	Methyl acetate	5.9	U
75-09-2	Methylene chloride	0.38	JB
156-60-5	trans-1,2-Dichloroethene	5.9	U
1634-04-4	Methyl tert-butyl ether	5.9	U
75-34-3	1,1-Dichloroethane	5.9	U
156-59-2	cis-1,2-Dichloroethene	5.9	U
78-93-3	2-Butanone	12.	U
74-97-5	Bromochloromethane	5.9	U
67-66-3	Chloroform	5.9	U
71-55-6	1,1,1-Trichloroethane	5.9	U
110-82-7	Cyclohexane	5.9	U
56-23-5	Carbon tetrachloride	5.9	U
71-43-2	Benzene	5.9	U
107-06-2	1,2-Dichloroethane	5.9	U
123-91-1	1,4-Dioxane	120	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M91

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725011

Sample wt/vol: 4.63 (g/mL) g Lab File ID: SV38C011

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 8.4 Date Analyzed: 06/11/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.9	U
108-87-2	Methylcyclohexane	5.9	U
78-87-5	1,2-Dichloropropane	5.9	U
75-27-4	Bromodichloromethane	5.9	U
10061-01-5	cis-1,3-Dichloropropene	5.9	U
108-10-1	4-Methyl-2-Pentanone	12.	U
108-88-3	Toluene	4.6	J
10061-02-6	trans-1,3-Dichloropropene	5.9	U
79-00-5	1,1,2-Trichloroethane	5.9	U
127-18-4	Tetrachloroethene	5.9	U
591-78-6	2-Hexanone	12.	U
124-48-1	Dibromochloromethane	5.9	U
106-93-4	1,2-Dibromoethane	5.9	U
108-90-7	Chlorobenzene	5.9	U
100-41-4	Ethylbenzene	5.9	U
95-47-6	o-Xylene	5.9	U
179601-23-1	m,p-Xylene	5.9	U
100-42-5	Styrene	5.9	U
75-25-2	Bromoform	5.9	U
98-82-8	Isopropylbenzene	5.9	U
79-34-5	1,1,2,2-Tetrachloroethane	5.9	U
541-73-1	1,3-Dichlorobenzene	5.9	U
106-46-7	1,4-Dichlorobenzene	5.9	U
95-50-1	1,2-Dichlorobenzene	5.9	U
96-12-8	1,2-Dibromo-3-chloropropane	5.9	U
120-82-1	1,2,4-Trichlorobenzene	5.9	U
87-61-6	1,2,3-Trichlorobenzene	5.9	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M91

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725011
Sample wt/vol: 4.63 (g/mL) g Lab File ID: SV38C011
Level: (TRACE or LOW/MED) LOW Date Received: 06/05/2015
% Moisture: not dec. 8.4 Date Analyzed: 06/11/2015
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

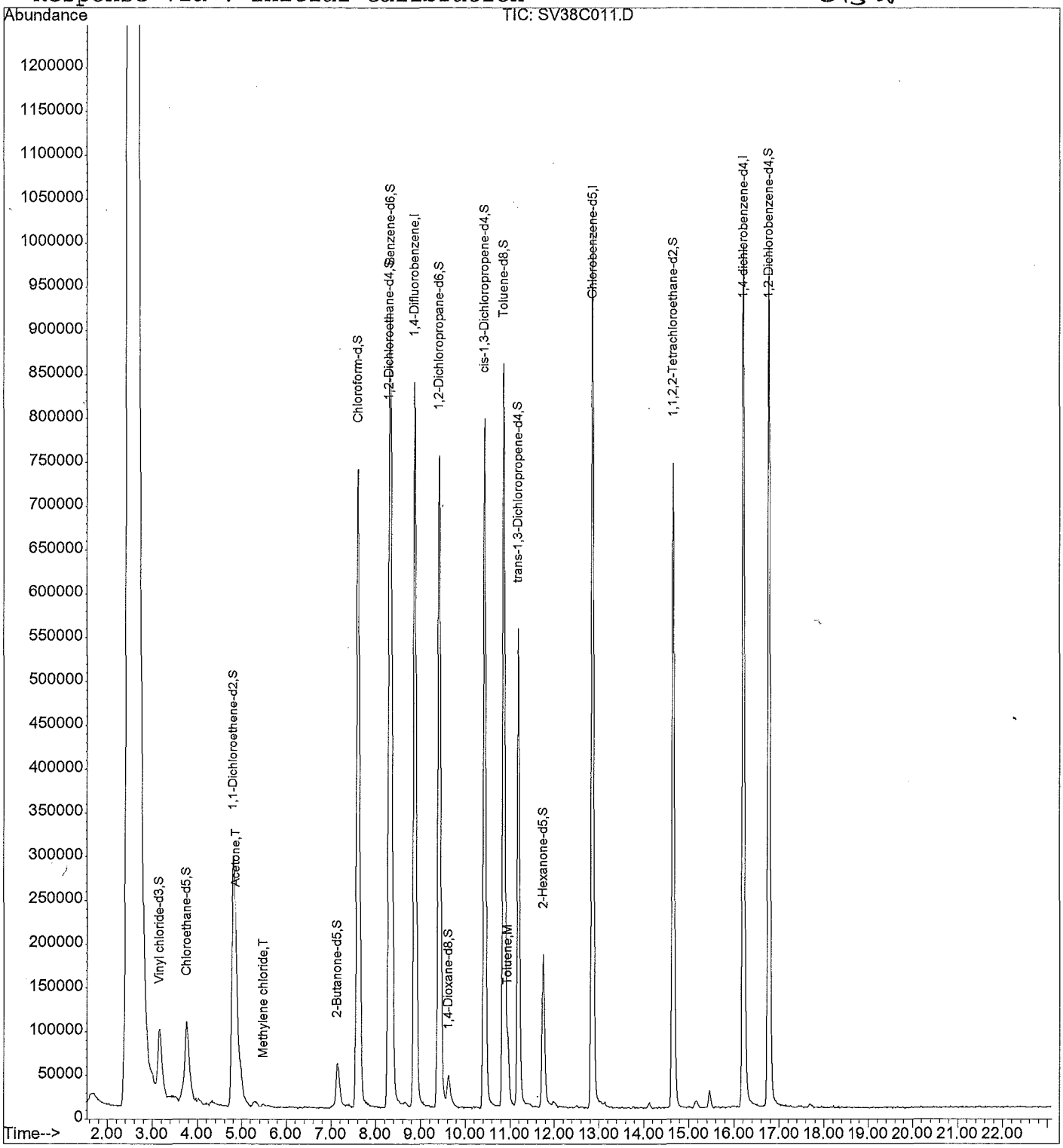
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV38C011.D
Acq Time : 06/11/2015 23:04 Operator: CQC
Sample : 1515725011 F9M91 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:14 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6.13.15



00119

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV38C011.D
Acq Time : 06/11/2015 23:04 Operator: CQC
Sample : 1515725011 F9M91 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:14 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.86	114	1298209	50.00 ug/Kg	98.34
30) Chlorobenzene-d5	12.85	117	959776	50.00 ug/Kg	89.66
62) 1,4-dichlorobenzene-d4	16.21	152	466976	50.00 ug/Kg	76.75
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.16	65	339412	40.97 ug/Kg	81.94%
8) Chloroethane-d5	3.77	69	351656	44.61 ug/Kg	89.23%
11) 1,1-Dichloroethene-d2	4.80	63	897699	32.86 ug/Kg	65.73%
22) 2-Butanone-d5	7.14	46	179450	79.80 ug/Kg	79.80%
25) Chloroform-d	7.61	84	1295356	48.41 ug/Kg	96.83%
27) 1,2-Dichloroethane-d4	8.29	65	693774	56.73 ug/Kg	113.45%
29) 1,4-Dioxane-d8	9.63	96	56738	1499.19 ug/Kg	149.92%
35) Benzene-d6	8.33	84	1257266	53.27 ug/Kg	106.54%
39) 1,2-Dichloropropane-d6	9.42	67	634037	54.54 ug/Kg	109.08%
42) cis-1,3-Dichloropropene-d4	10.43	79	834344	42.84 ug/Kg	85.68%
44) trans-1,3-Dichloropropene-	11.19	79	551987	49.15 ug/Kg	98.31%
49) Toluene-d8	10.86	98	1077188	50.45 ug/Kg	100.90%
52) 2-Hexanone-d5	11.75	63	123061	82.68 ug/Kg	82.68%
61) 1,1,2,2-Tetrachloroethane-	14.65	84	760975	63.47 ug/Kg	126.94%#
67) 1,2-Dichlorobenzene-d4	16.77	152	448515	50.10 ug/Kg	100.20%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	4.88	43	14469	5.98 ug/Kg#	61
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.47	84	2960	0.33 ug/Kg#	54
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV38C011.D
Acq Time : 06/11/2015 23:04 Operator: CQC
Sample : 1515725011 F9M91 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

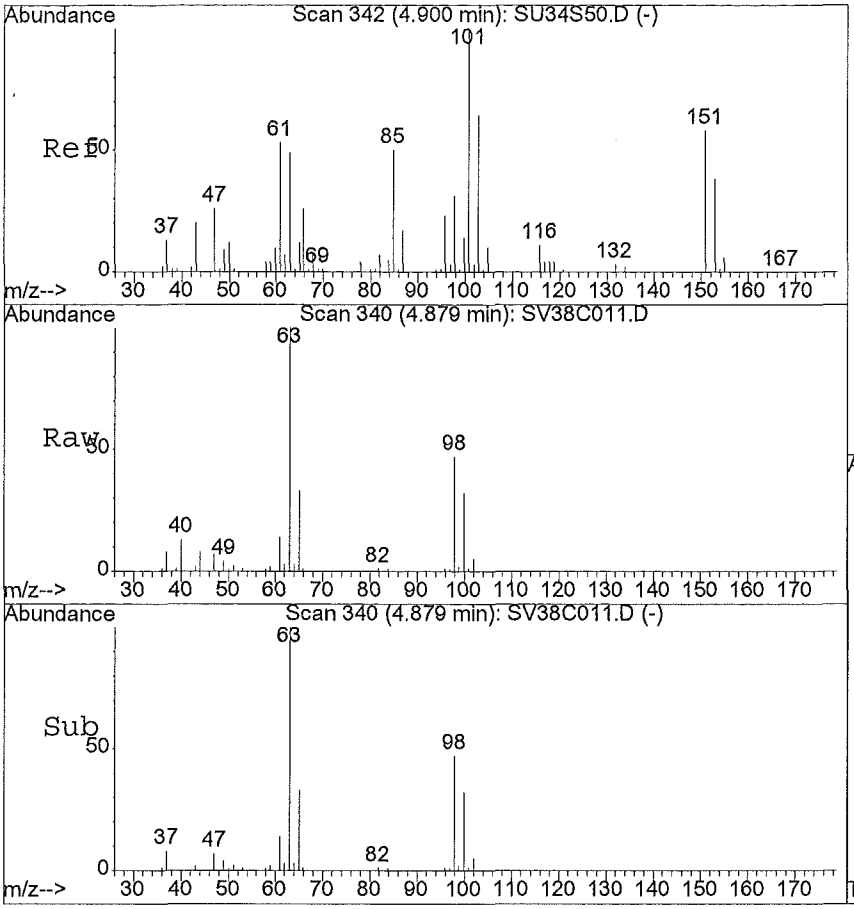
Quant Time: Jun 13 12:14 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	10.95	91	89664	3.88 ug/Kg#	96
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

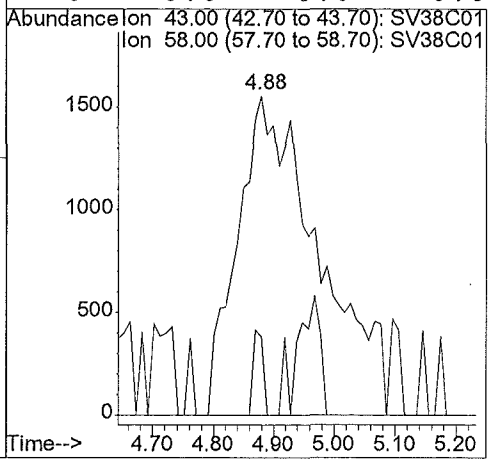
: 88121

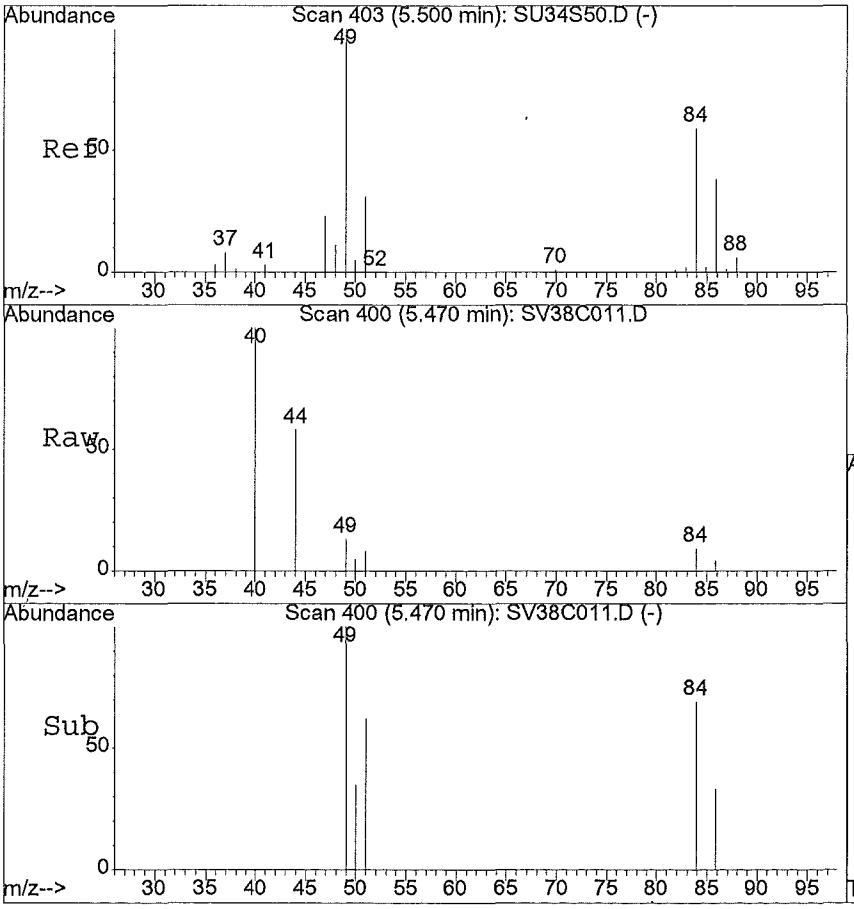


#13
Acetone
Concen: 5.98 ug/Kg
RT: 4.88 min Scan# 340
Delta R.T. -0.01 min
Lab File: SV38C011.D
Acq: 06/11/2015 23:04

Tgt Ion:43 Resp: 14469

Ion	Ratio	Lower	Upper
43	100		
58	3.3	10.9	32.6#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

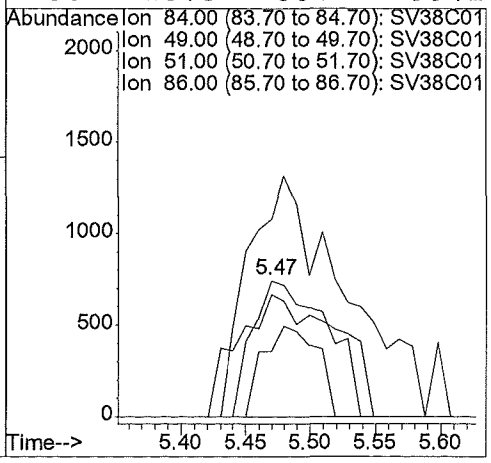




#16
Methylene chloride
Concen: 0.33 ug/Kg
RT: 5.47 min Scan# 400
Delta R.T. -0.03 min
Lab File: SV38C011.D
Acq: 06/11/2015 23:04

Tgt Ion:84 Resp: 2960

Ion	Ratio	Lower	Upper
84	100		
49	227.8	85.4	256.1
51	118.2	26.8	80.4#
86	48.5	33.1	99.2



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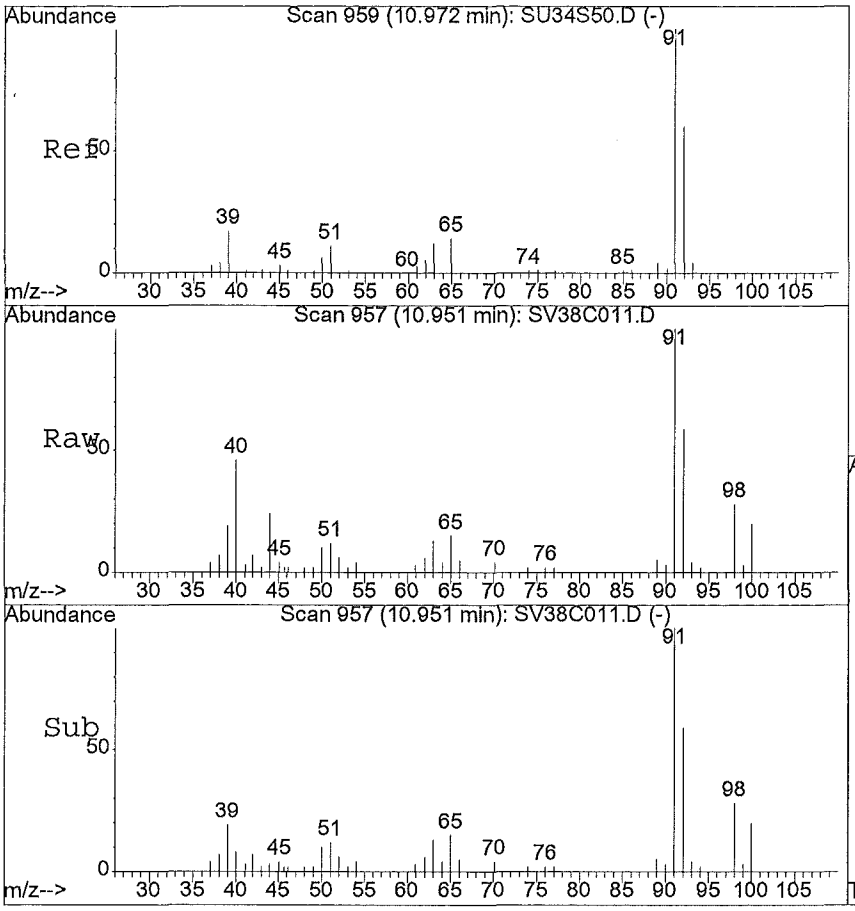
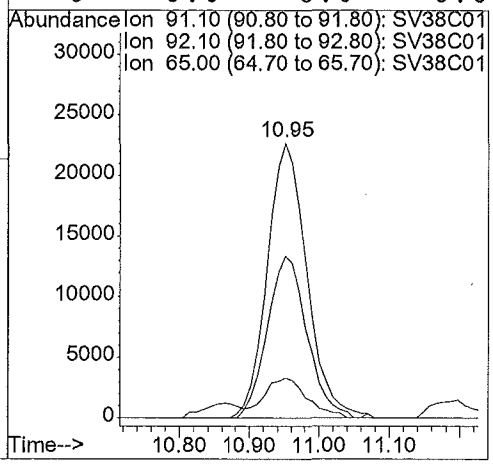


#48
Toluene
Concen: 3.88 ug/Kg
RT: 10.95 min Scan# 957
Delta R.T. -0.02 min
Lab File: SV38C011.D
Acq: 06/11/2015 23:04

Tgt Ion:91.1 Resp: 89664

Ion	Ratio	Lower	Upper
91	100		
92	59.1	48.2	72.2
65	21.0	11.7	17.5#
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M92

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725014

Sample wt/vol: 2.94 (g/mL) g Lab File ID: SV39C014

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 12. Date Analyzed: 06/11/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	9.6	U
74-87-3	Chloromethane	9.6	U
75-01-4	Vinyl chloride	9.6	U
74-83-9	Bromomethane	9.6	U
75-00-3	Chloroethane	9.6	U
75-69-4	Trichlorofluoromethane	9.6	U
75-35-4	1,1-Dichloroethene	9.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	9.6	U
67-64-1	Acetone	25.	
75-15-0	Carbon disulfide	9.6	U
79-20-9	Methyl acetate	9.6	U
75-09-2	Methylene chloride	1.1	JB
156-60-5	trans-1,2-Dichloroethene	9.6	U
1634-04-4	Methyl tert-butyl ether	9.6	U
75-34-3	1,1-Dichloroethane	9.6	U
156-59-2	cis-1,2-Dichloroethene	9.6	U
78-93-3	2-Butanone	19.	U
74-97-5	Bromochloromethane	9.6	U
67-66-3	Chloroform	9.6	U
71-55-6	1,1,1-Trichloroethane	9.6	U
110-82-7	Cyclohexane	9.6	U
56-23-5	Carbon tetrachloride	9.6	U
71-43-2	Benzene	9.6	U
107-06-2	1,2-Dichloroethane	9.6	U
123-91-1	1,4-Dioxane	190	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M92

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725014

Sample wt/vol: 2.94 (g/mL) g Lab File ID: SV39C014

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 12. Date Analyzed: 06/11/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	9.6	U
108-87-2	Methylcyclohexane	9.6	U
78-87-5	1,2-Dichloropropane	9.6	U
75-27-4	Bromodichloromethane	9.6	U
10061-01-5	cis-1,3-Dichloropropene	9.6	U
108-10-1	4-Methyl-2-Pentanone	19.	U
108-88-3	Toluene	30.	
10061-02-6	trans-1,3-Dichloropropene	9.6	U
79-00-5	1,1,2-Trichloroethane	9.6	U
127-18-4	Tetrachloroethene	9.6	U
591-78-6	2-Hexanone	19.	U
124-48-1	Dibromochloromethane	9.6	U
106-93-4	1,2-Dibromoethane	9.6	U
108-90-7	Chlorobenzene	9.6	U
100-41-4	Ethylbenzene	0.45	J
95-47-6	o-Xylene	0.64	J
179601-23-1	m,p-Xylene	1.7	J
100-42-5	Styrene	9.6	U
75-25-2	Bromoform	9.6	U
98-82-8	Isopropylbenzene	9.6	U
79-34-5	1,1,2,2-Tetrachloroethane	9.6	U
541-73-1	1,3-Dichlorobenzene	9.6	U
106-46-7	1,4-Dichlorobenzene	9.6	U
95-50-1	1,2-Dichlorobenzene	9.6	U
96-12-8	1,2-Dibromo-3-chloropropane	9.6	U
120-82-1	1,2,4-Trichlorobenzene	9.6	U
87-61-6	1,2,3-Trichlorobenzene	9.6	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M92

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725014
Sample wt/vol: 2.94 (g/mL) g Lab File ID: SV39C014
Level: (TRACE or LOW/MED) LOW Date Received: 06/05/2015
% Moisture: not dec. 12. Date Analyzed: 06/11/2015
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	75-18-3	Dimethyl sulfide	4.98	27.	JN
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

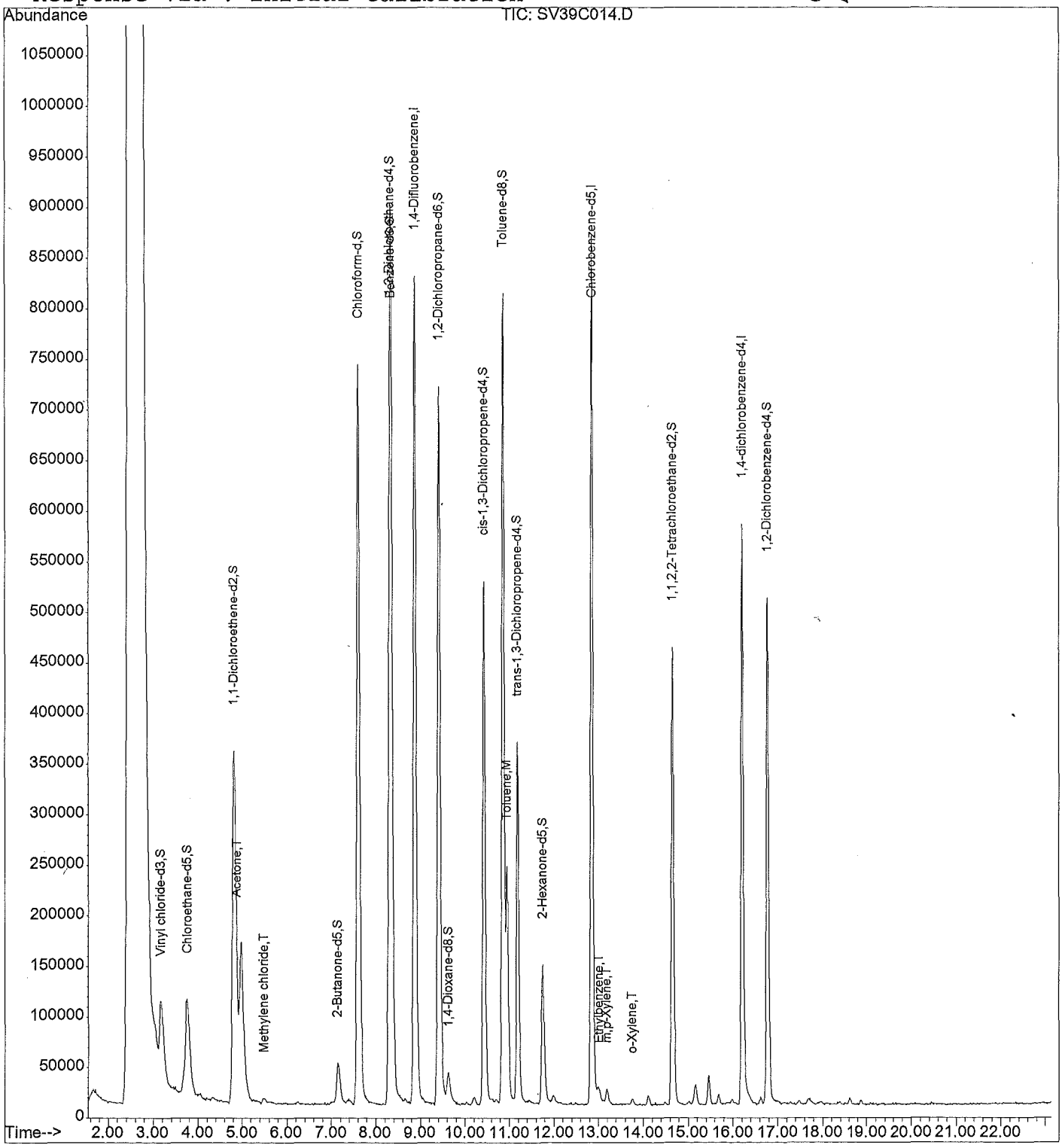
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV39C014.D
Acq Time : 06/11/2015 23:35 Operator: CQC
Sample : 1515725014 F9M92 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:15 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6·13·15



:09127

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV39C014.D
Acq Time : 06/11/2015 23:35 Operator: CQC
Sample : 1515725014 F9M92 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:15 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.87	114	1266488	50.00 ug/Kg	95.94
30) Chlorobenzene-d5	12.84	117	805932	50.00 ug/Kg	75.29
62) 1,4-dichlorobenzene-d4	16.20	152	264961	50.00 ug/Kg	43.55#
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.18	65	358372	44.34 ug/Kg	88.69%
8) Chloroethane-d5	3.76	69	372868	48.49 ug/Kg	96.98%
11) 1,1-Dichloroethene-d2	4.81	63	941247	35.32 ug/Kg	70.64%
22) 2-Butanone-d5	7.14	46	127990	58.34 ug/Kg	58.34%
25) Chloroform-d	7.61	84	1307368	50.09 ug/Kg	100.17%
27) 1,2-Dichloroethane-d4	8.30	65	638174	53.49 ug/Kg	106.97%
29) 1,4-Dioxane-d8	9.62	96	48541	1314.73 ug/Kg	131.47%
35) Benzene-d6	8.34	84	1250602	63.10 ug/Kg	126.20%#
39) 1,2-Dichloropropane-d6	9.41	67	610015	62.49 ug/Kg	124.98%#
42) cis-1,3-Dichloropropene-d4	10.42	79	558617	34.16 ug/Kg	68.32%
44) trans-1,3-Dichloropropene-	11.18	79	365219	38.73 ug/Kg	77.46%
49) Toluene-d8	10.86	98	1009369	56.30 ug/Kg	112.59%
52) 2-Hexanone-d5	11.75	63	89656	71.74 ug/Kg	71.74%
61) 1,1,2,2-Tetrachloroethane-	14.66	84	465224	46.21 ug/Kg	92.42%
67) 1,2-Dichlorobenzene-d4	16.77	152	231468	45.57 ug/Kg	91.14%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	4.89	43	30936	13.10 ug/Kg#	54
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.48	84	5036	0.57 ug/Kg	88
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV39C014.D
Acq Time : 06/11/2015 23:35 Operator: CQC
Sample : 1515725014 F9M92 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

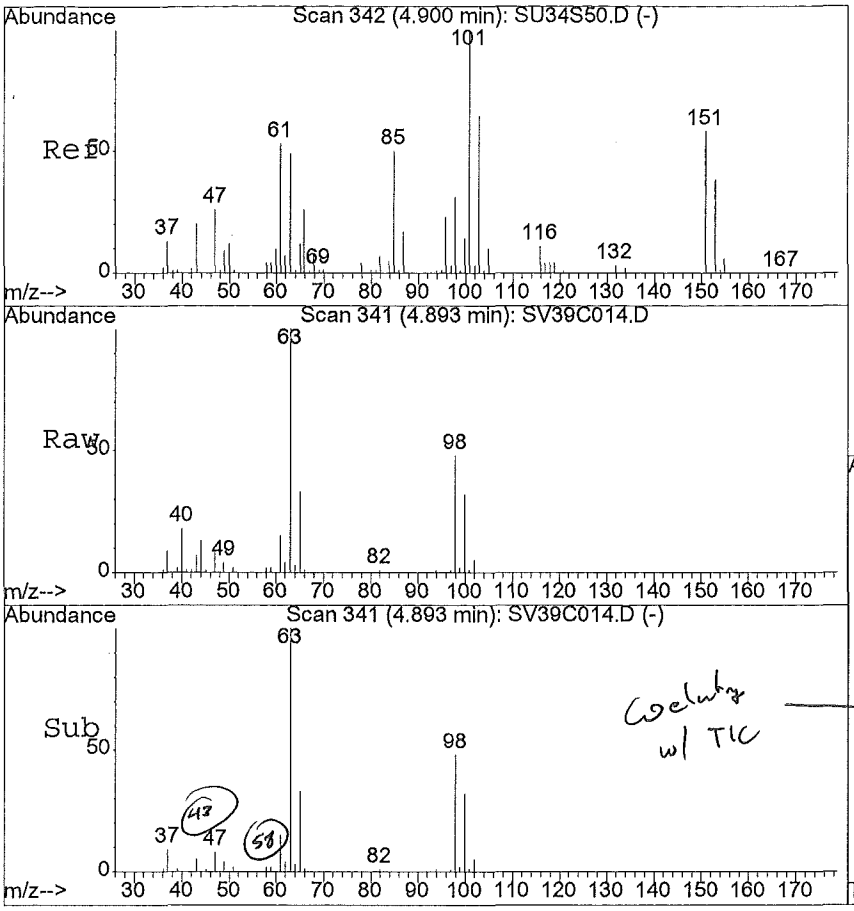
Quant Time: Jun 13 12:15 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	10.95	91	301307	15.52 ug/Kg	99
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	13.02	91	5442	0.23 ug/Kg#	75
56)	m,p-Xylene	13.19	106	7576	0.89 ug/Kg	95
57)	o-Xylene	13.75	106	2948	0.33 ug/Kg	82
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

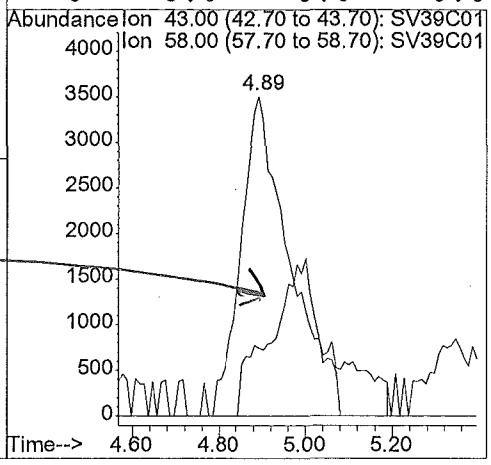
00129

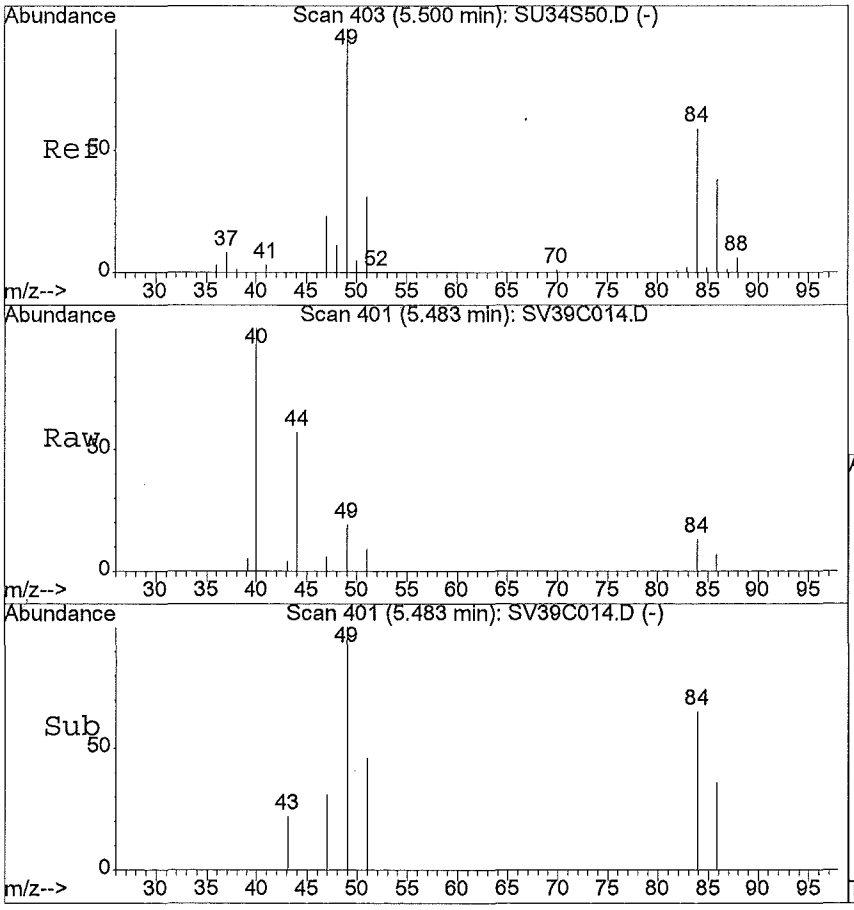


#13
Acetone
Concen: 13.10 ug/Kg
RT: 4.89 min Scan# 341
Delta R.T. 0.00 min
Lab File: SV39C014.D
Acq: 06/11/2015 23:35

Tgt Ion:43 Resp: 30936

Ion	Ratio	Lower	Upper
43	100		
58	0.0	10.9	32.6#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

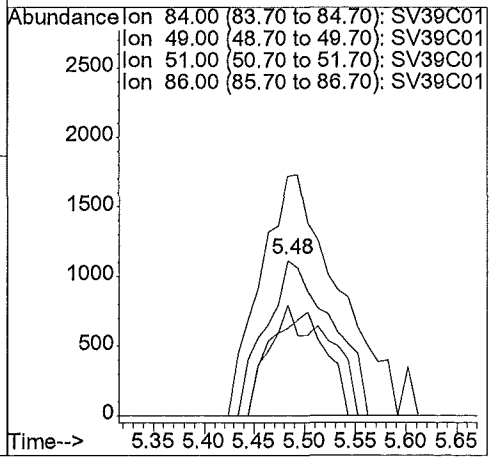


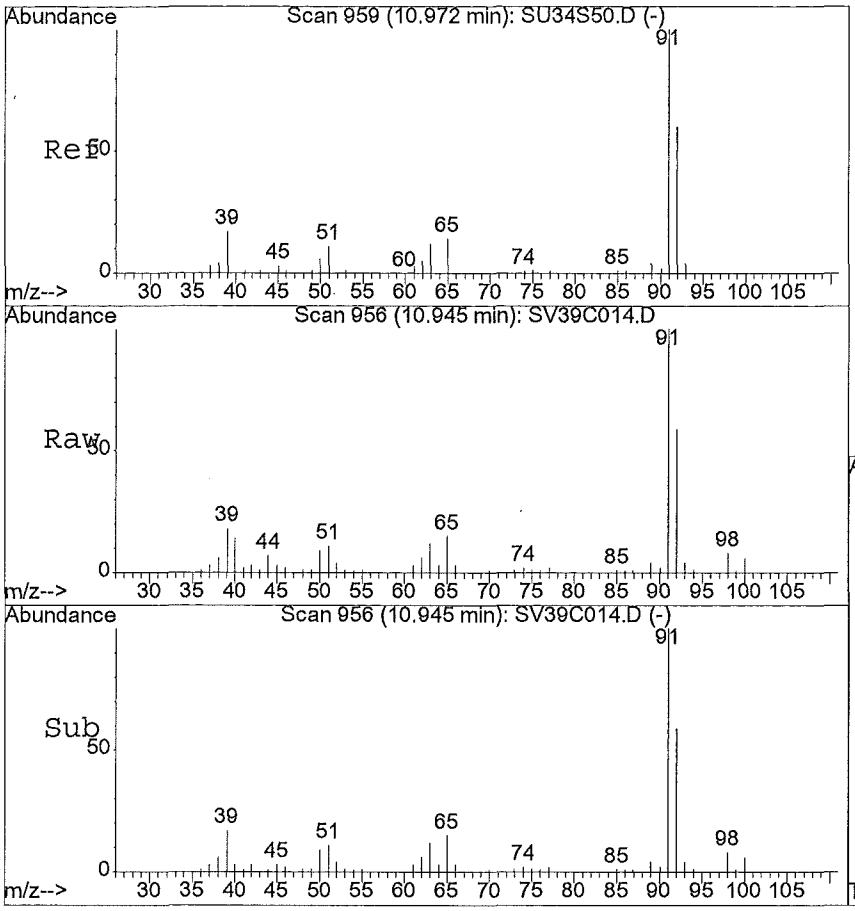


#16
Methylene chloride
Concen: 0.57 ug/Kg
RT: 5.48 min Scan# 401
Delta R.T. -0.02 min
Lab File: SV39C014.D
Acq: 06/11/2015 23:35

Tgt Ion:84 Resp: 5036

Ion	Ratio	Lower	Upper
84	100		
49	185.8	85.4	256.1
51	63.9	26.8	80.4
86	57.2	33.1	99.2

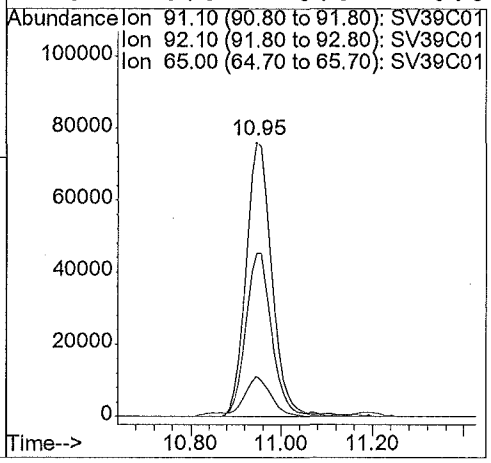


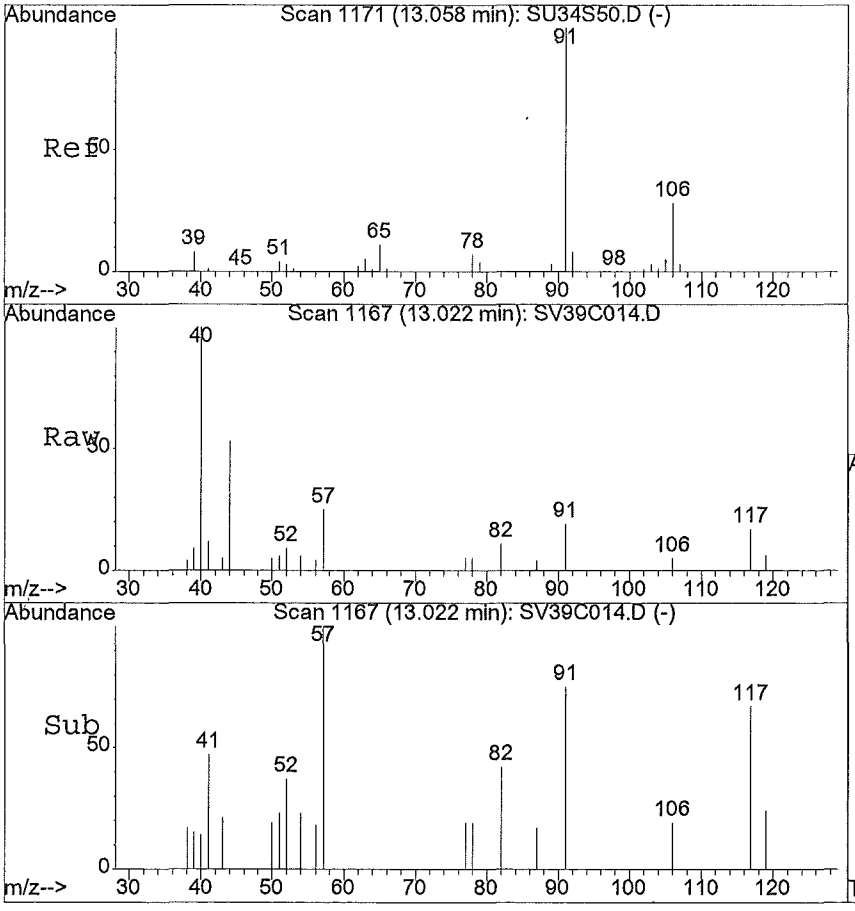


#48
Toluene
Concen: 15.52 ug/Kg
RT: 10.95 min Scan# 956
Delta R.T. -0.03 min
Lab File: SV39C014.D
Acq: 06/11/2015 23:35

Tgt Ion:91.1 Resp: 301307

Ion	Ratio	Lower	Upper
91	100		
92	59.8	48.2	72.2
65	15.9	11.7	17.5
0	0.0	0.0	0.0

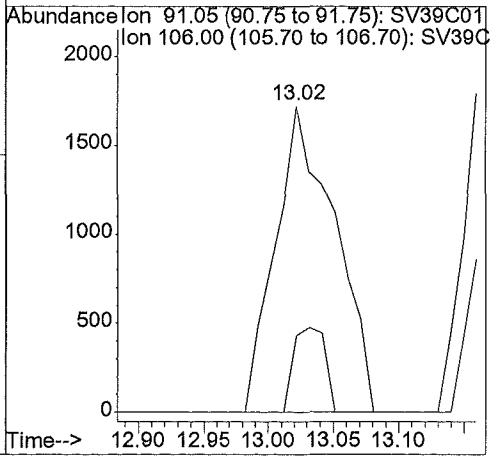




#55
Ethylbenzene
Concen: 0.23 ug/Kg
RT: 13.02 min Scan# 1167
Delta R.T. -0.04 min
Lab File: SV39C014.D
Acq: 06/11/2015 23:35

Tgt Ion:91.05 Resp: 5442

Ion	Ratio	Lower	Upper
91	100		
106	14.6	22.1	33.1#
0	0.0	0.0	0.0
0	0.0	0.0	0.0



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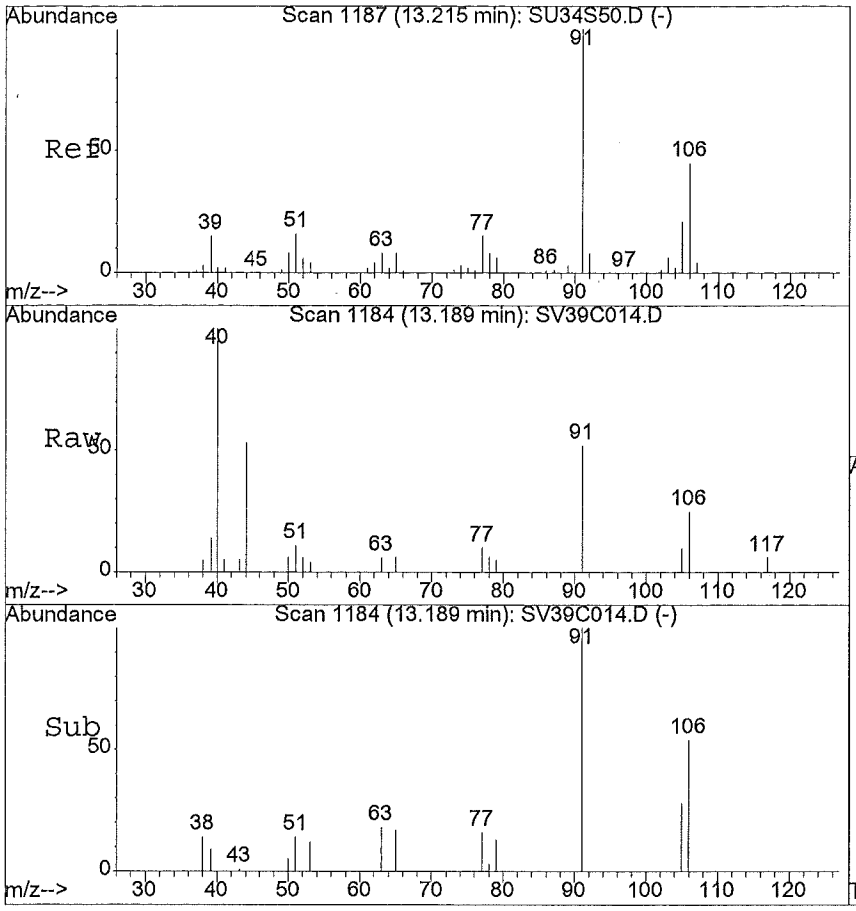
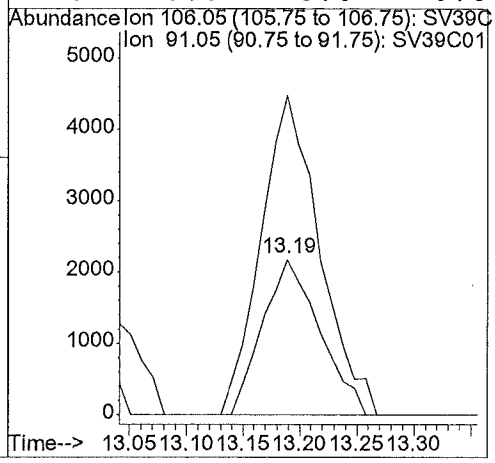
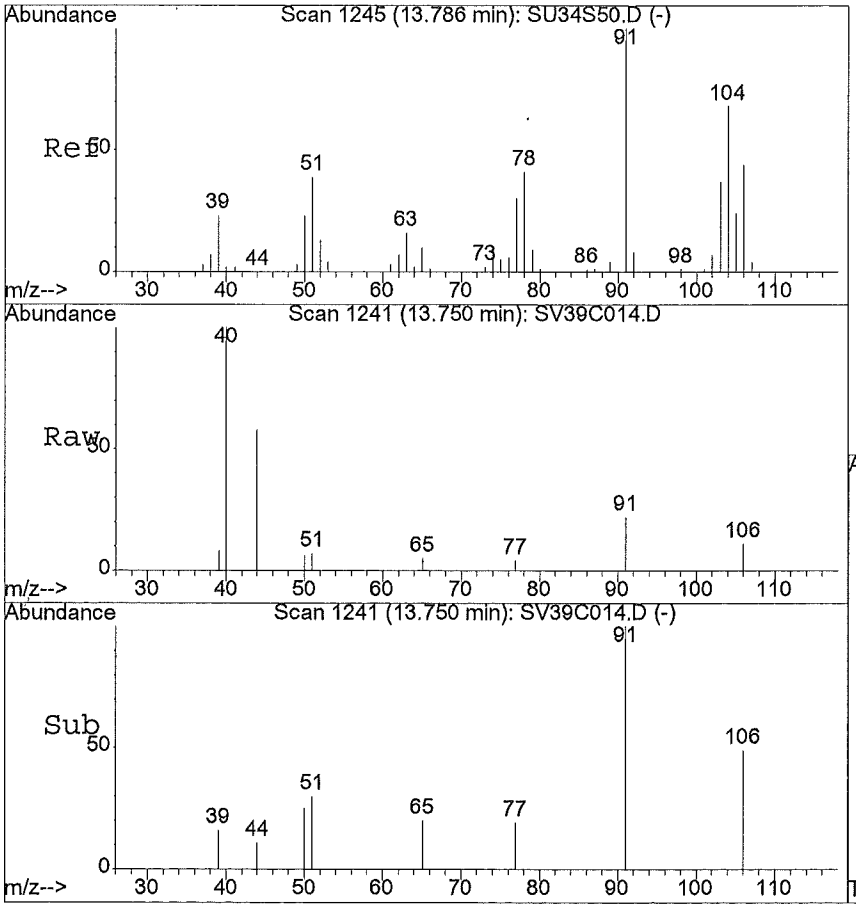


#56
m,p-Xylene
Concen: 0.89 ug/Kg
RT: 13.19 min Scan# 1184
Delta R.T. -0.03 min
Lab File: SV39C014.D
Acq: 06/11/2015 23:35

Tgt Ion:106.05 Resp: 7576

Ion	Ratio	Lower	Upper
106	100		
91	212.2	176.6	264.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

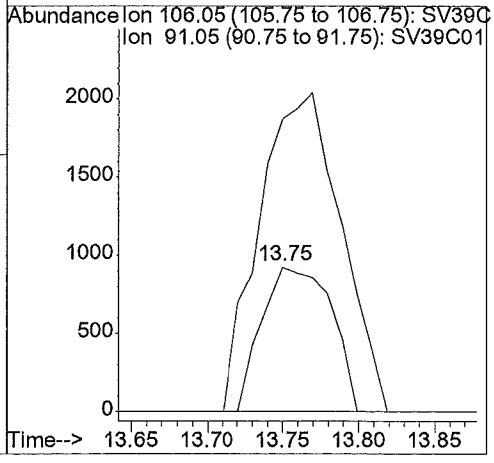




#57
o-Xylene
Concen: 0.33 ug/Kg
RT: 13.75 min Scan# 1241
Delta R.T. -0.04 min
Lab File: SV39C014.D
Acq: 06/11/2015 23:35

Tgt Ion:106.05 Resp: 2948

Ion	Ratio	Lower	Upper
106	100		
91	258.1	182.6	274.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0



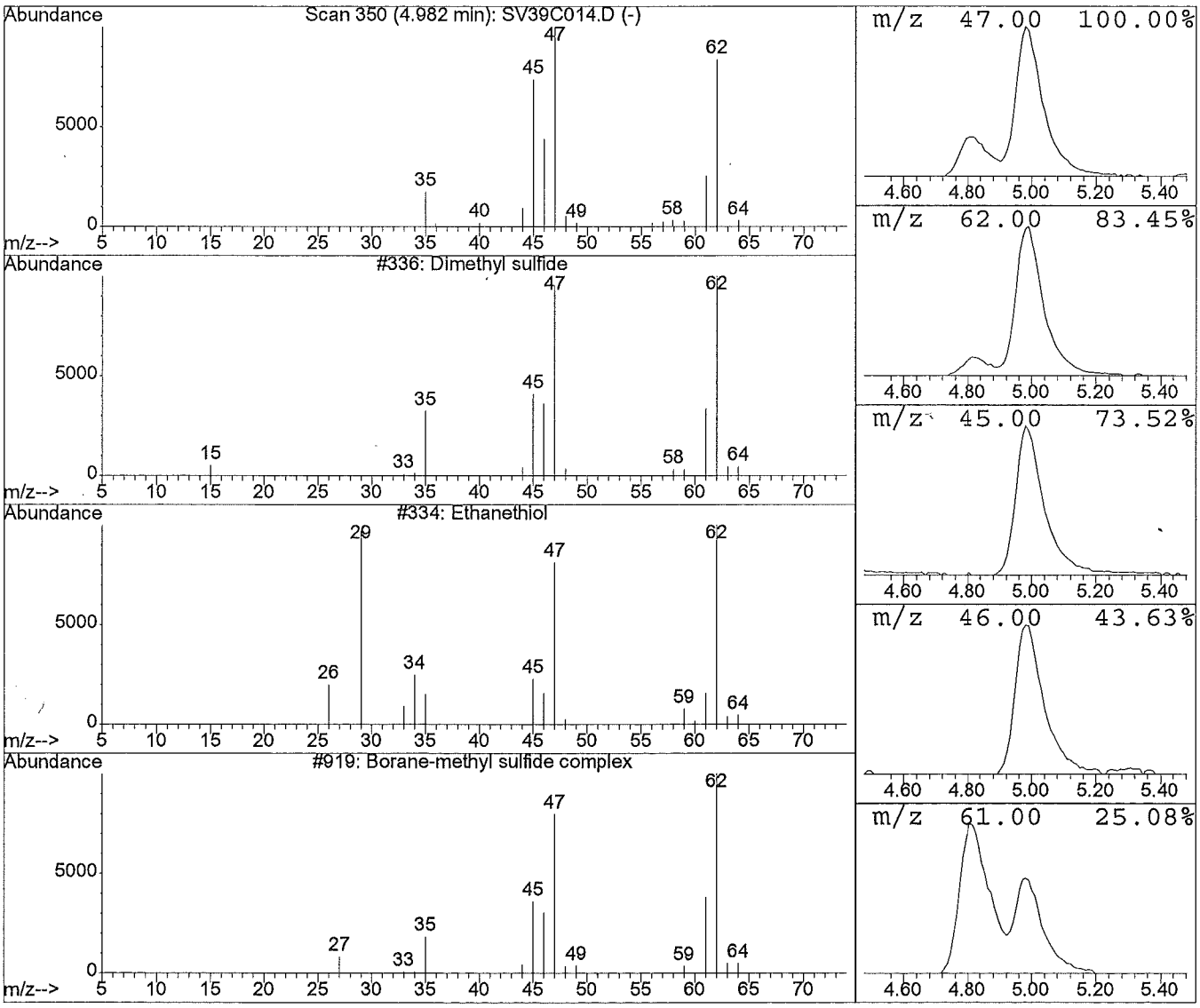
Library Search Compound Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV39C014.D
Acq Time : 06/11/2015 23:35 Operator: CQC
Sample : 1515725014 F9M92 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Library : D:\DATABASE\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.98	13.88 ug/Kg	978399	1,4-Difluorobenzene	3525725

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dimethyl sulfide	336	000075-18-3	87.00
2	Ethanethiol	334	000075-08-1	64.00
3	Borane-methyl sulfide complex	919	013292-87-0	56.00
4	Oxalic acid	2224	000144-62-7	9.00
5	Boric acid	321	010043-35-3	7.00



: 8139

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M92RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725014RE

Sample wt/vol: 4.64 (g/mL) g Lab File ID: SV54R014

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 12. Date Analyzed: 06/13/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	6.1	U
74-87-3	Chloromethane	6.1	U
75-01-4	Vinyl chloride	6.1	U
74-83-9	Bromomethane	6.1	U
75-00-3	Chloroethane	6.1	U
75-69-4	Trichlorofluoromethane	6.1	U
75-35-4	1,1-Dichloroethene	6.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.1	U
67-64-1	Acetone	6.0	J
75-15-0	Carbon disulfide	6.1	U
79-20-9	Methyl acetate	6.1	U
75-09-2	Methylene chloride	6.1	U
156-60-5	trans-1,2-Dichloroethene	6.1	U
1634-04-4	Methyl tert-butyl ether	6.1	U
75-34-3	1,1-Dichloroethane	6.1	U
156-59-2	cis-1,2-Dichloroethene	6.1	U
78-93-3	2-Butanone	12.	U
74-97-5	Bromochloromethane	6.1	U
67-66-3	Chloroform	6.1	U
71-55-6	1,1,1-Trichloroethane	6.1	U
110-82-7	Cyclohexane	6.1	U
56-23-5	Carbon tetrachloride	6.1	U
71-43-2	Benzene	6.1	U
107-06-2	1,2-Dichloroethane	6.1	U
123-91-1	1,4-Dioxane	120	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M92RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725014RE

Sample wt/vol: 4.64 (g/mL) g Lab File ID: SV54R014

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 12. Date Analyzed: 06/13/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	6.1	U
108-87-2	Methylcyclohexane	6.1	U
78-87-5	1,2-Dichloropropane	6.1	U
75-27-4	Bromodichloromethane	6.1	U
10061-01-5	cis-1,3-Dichloropropene	6.1	U
108-10-1	4-Methyl-2-Pentanone	12.	U
108-88-3	Toluene	17.	
10061-02-6	trans-1,3-Dichloropropene	6.1	U
79-00-5	1,1,2-Trichloroethane	6.1	U
127-18-4	Tetrachloroethene	6.1	U
591-78-6	2-Hexanone	12.	U
124-48-1	Dibromochloromethane	6.1	U
106-93-4	1,2-Dibromoethane	6.1	U
108-90-7	Chlorobenzene	6.1	U
100-41-4	Ethylbenzene	6.1	U
95-47-6	o-Xylene	0.30	J
179601-23-1	m,p-Xylene	0.78	J
100-42-5	Styrene	6.1	U
75-25-2	Bromoform	6.1	U
98-82-8	Isopropylbenzene	6.1	U
79-34-5	1,1,2,2-Tetrachloroethane	6.1	U
541-73-1	1,3-Dichlorobenzene	6.1	U
106-46-7	1,4-Dichlorobenzene	6.1	U
95-50-1	1,2-Dichlorobenzene	6.1	U
96-12-8	1,2-Dibromo-3-chloropropane	6.1	U
120-82-1	1,2,4-Trichlorobenzene	6.1	U
87-61-6	1,2,3-Trichlorobenzene	6.1	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9M92RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725014RE

Sample wt/vol: 4.64 (g/mL) g Lab File ID: SV54R014

Level: (TRACE or LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 12. Date Analyzed: 06/13/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV54R014.D
Acq Time : 06/13/2015 15:04
Sample : 1515725014RE F9M92RE
Misc : 1515725

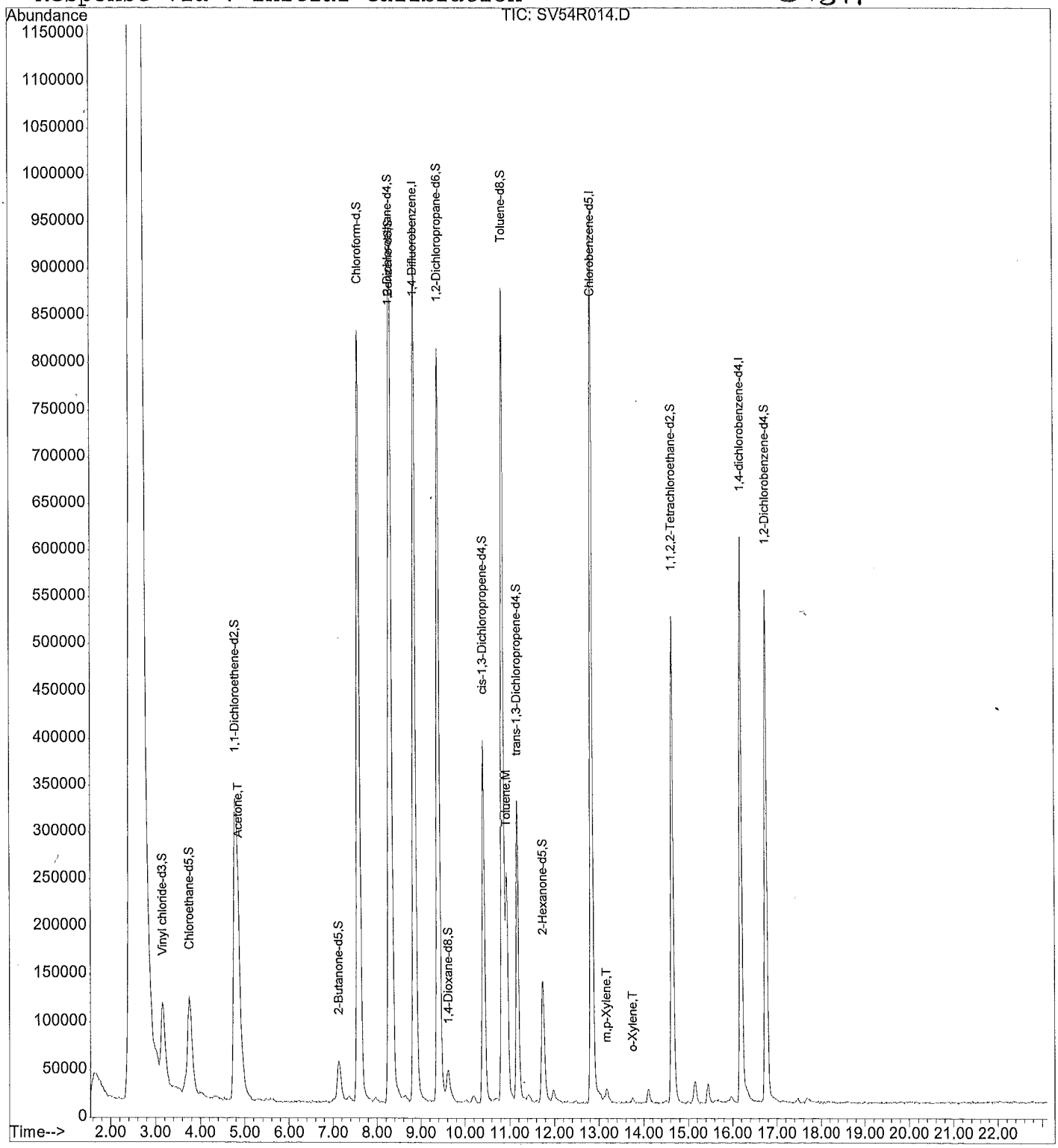
Operator: CQC
Inst : 5972-S
Multiplr: 1.00

Quant Time: Jun 13 15:29 2015

Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6.13.15



: 00137

Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV54R014.D
Acq Time : 06/13/2015 15:04 Operator: CQC
Sample : 1515725014RE F9M92RE Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 15:29 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.85	114	1499855	50.00 ug/Kg	113.62
30) Chlorobenzene-d5	12.84	117	914772	50.00 ug/Kg	85.46
62) 1,4-dichlorobenzene-d4	16.19	152	293283	50.00 ug/Kg	48.21#
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.15	65	371208	38.78 ug/Kg	77.57%
8) Chloroethane-d5	3.76	69	388213	42.63 ug/Kg	85.26%
11) 1,1-Dichloroethene-d2	4.80	63	1031729	32.69 ug/Kg	65.39%
22) 2-Butanone-d5	7.13	46	131823	50.74 ug/Kg	50.74%
25) Chloroform-d	7.59	84	1477776	47.81 ug/Kg	95.61%
27) 1,2-Dichloroethane-d4	8.28	65	710349	50.27 ug/Kg	100.55%
29) 1,4-Dioxane-d8	9.61	96	54277	1241.35 ug/Kg	124.14%
35) Benzene-d6	8.32	84	1364282	60.65 ug/Kg	121.29%#
39) 1,2-Dichloropropane-d6	9.40	67	702996	63.45 ug/Kg	126.90%#
42) cis-1,3-Dichloropropene-d4	10.42	79	416800	22.45 ug/Kg	44.91%
44) trans-1,3-Dichloropropene-	11.17	79	329310	30.77 ug/Kg	61.54%#
49) Toluene-d8	10.85	98	1110607	54.57 ug/Kg	109.14%
52) 2-Hexanone-d5	11.73	63	84079	59.27 ug/Kg	59.27%
61) 1,1,2,2-Tetrachloroethane-	14.64	84	538574	47.13 ug/Kg	94.26%
67) 1,2-Dichlorobenzene-d4	16.75	152	257796	45.85 ug/Kg	91.71%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	4.88	43	13698	4.90 ug/Kg	86
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	0.00	84		Not Detected	
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

: 88138

Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV54R014.D
Acq Time : 06/13/2015 15:04 Operator: CQC
Sample : 1515725014RE F9M92RE Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

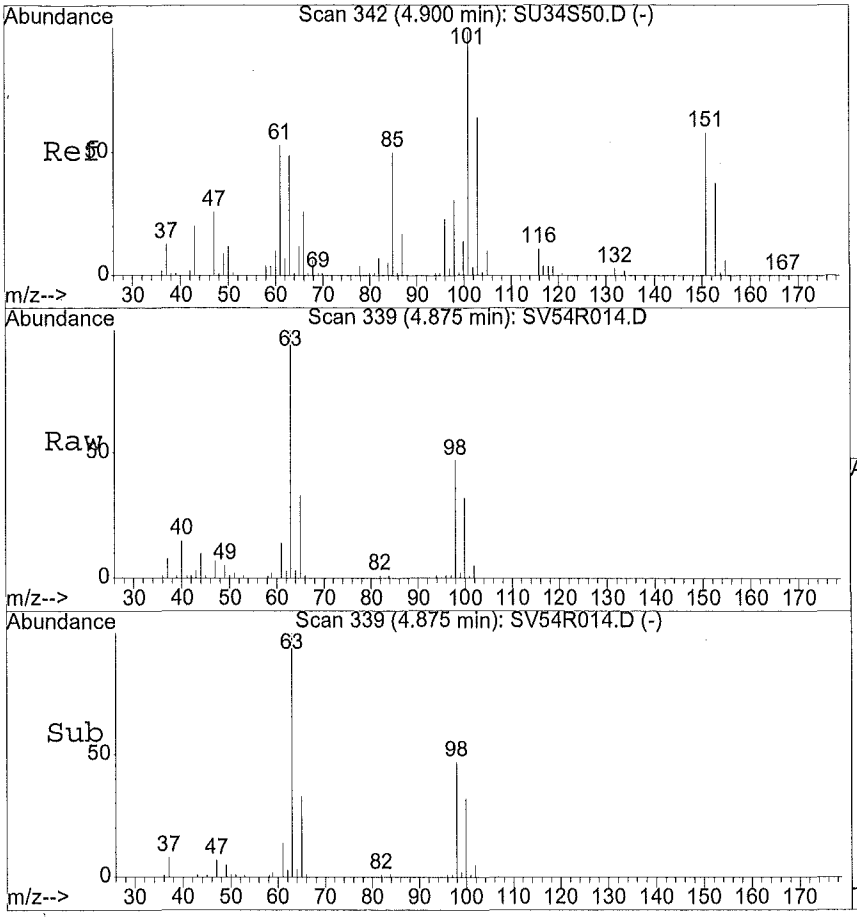
Quant Time: Jun 13 15:29 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	10.94	91	308311	13.99 ug/Kg	99
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	13.17	106	6235	0.64 ug/Kg	92
57)	o-Xylene	13.75	106	2493	0.25 ug/Kg#	72
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

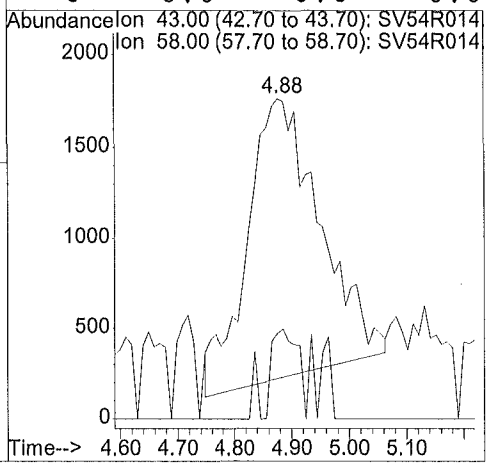
00139

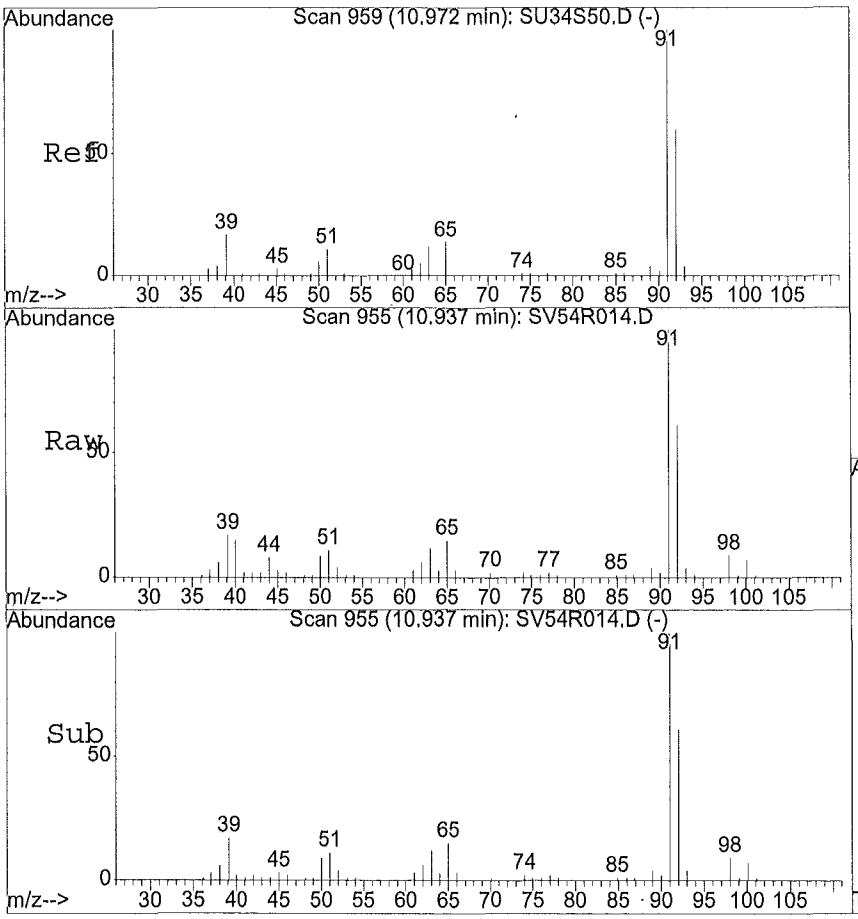


#13
Acetone
Concen: 4.90 ug/Kg
RT: 4.88 min Scan# 339
Delta R.T. -0.01 min
Lab File: SV54R014.D
Acq: 06/13/2015 15:04

Tgt Ion:43 Resp: 13698

Ion	Ratio	Lower	Upper
43	100		
58	14.9	10.9	32.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0

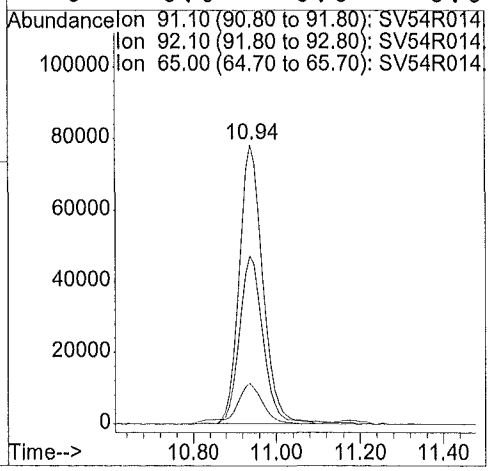


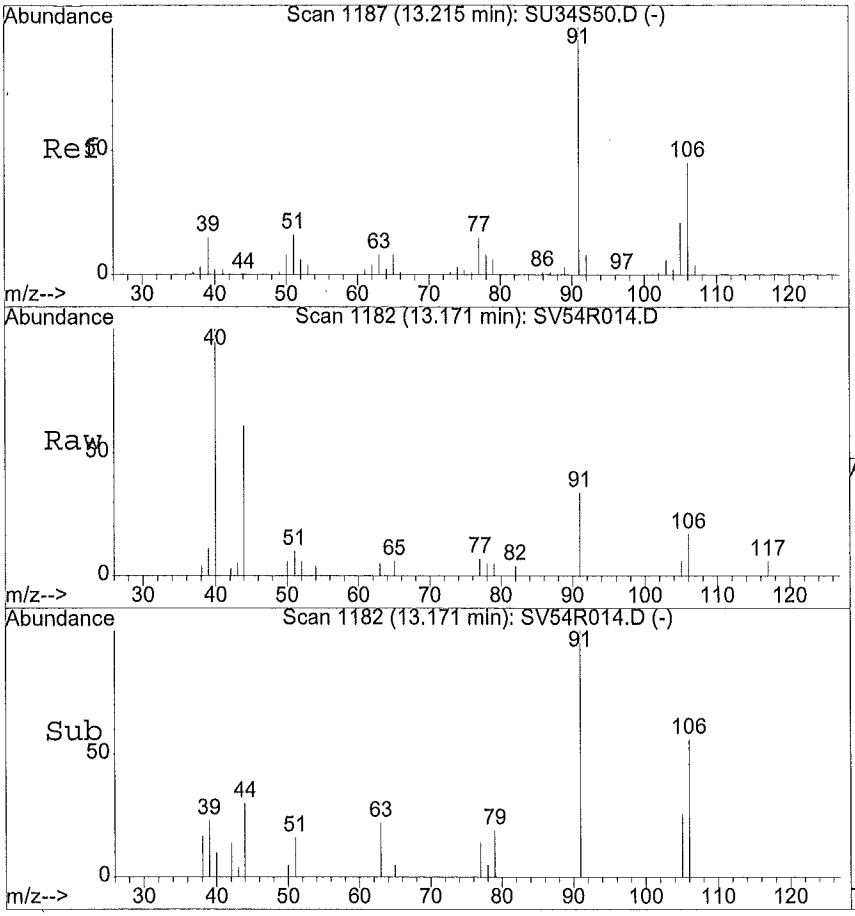


#48
Toluene
Concen: 13.99 ug/Kg
RT: 10.94 min Scan# 955
Delta R.T. -0.03 min
Lab File: SV54R014.D
Acq: 06/13/2015 15:04

Tgt Ion:91.1 Resp: 308311

Ion	Ratio	Lower	Upper
91	100		
92	59.7	48.2	72.2
65	16.2	11.7	17.5
0	0.0	0.0	0.0

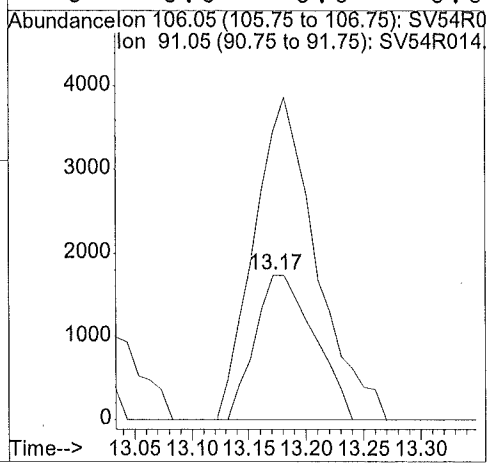


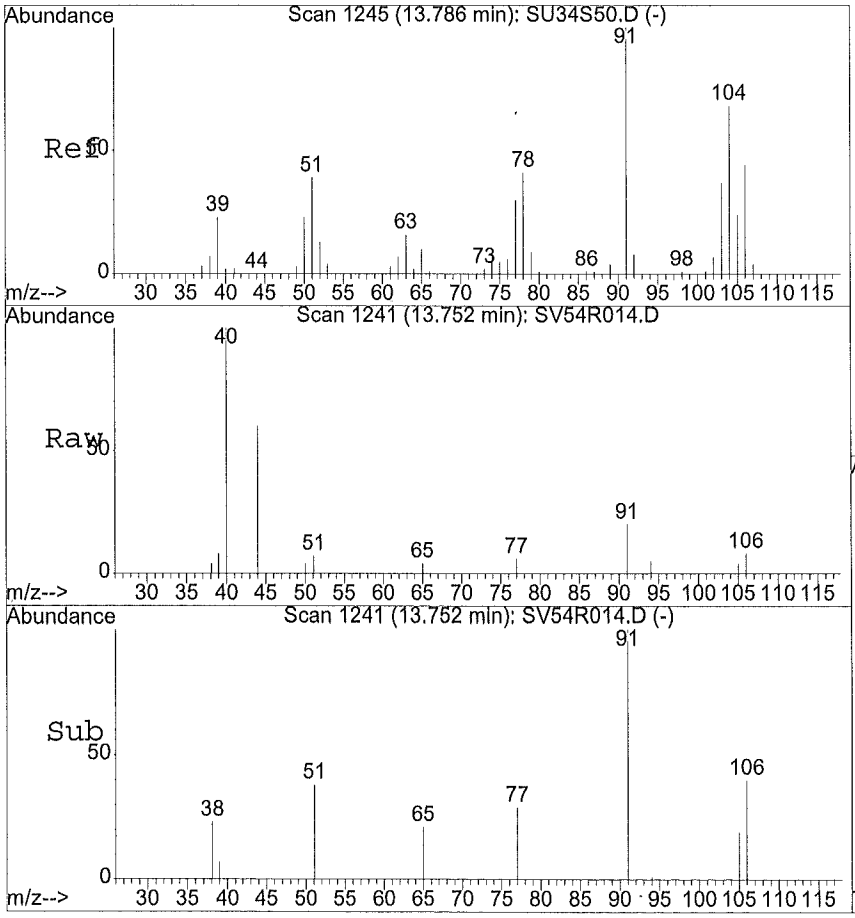


#56
m,p-Xylene
Concen: 0.64 ug/Kg
RT: 13.17 min Scan# 1182
Delta R.T. -0.04 min
Lab File: SV54R014.D
Acq: 06/13/2015 15:04

Tgt Ion:106.05 Resp: 6235

Ion	Ratio	Lower	Upper
106	100		
91	233.9	176.6	264.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

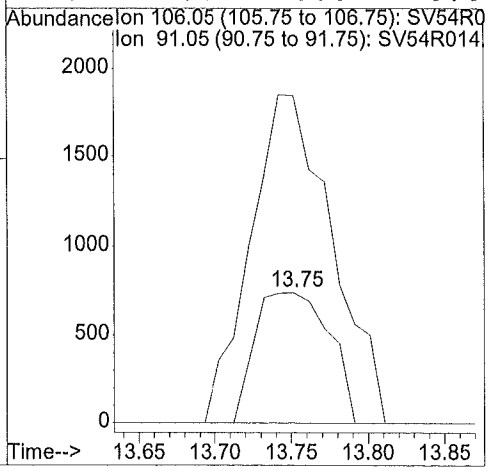




#57
o-Xylene
Concen: 0.25 ug/Kg
RT: 13.75 min Scan# 1241
Delta R.T. -0.03 min
Lab File: SV54R014.D
Acq: 06/13/2015 15:04

Tgt Ion:106.05 Resp: 2493

Ion	Ratio	Lower	Upper
106	100		
91	274.1	182.6	274.0#
0	0.0	0.0	0.0
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M93

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725015

Sample wt/vol: 5.17 (g/mL) g Lab File ID: SV40C015

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 12. Date Analyzed: 06/12/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.5	U
74-87-3	Chloromethane	5.5	U
75-01-4	Vinyl chloride	5.5	U
74-83-9	Bromomethane	5.5	U
75-00-3	Chloroethane	5.5	U
75-69-4	Trichlorofluoromethane	5.5	U
75-35-4	1,1-Dichloroethene	5.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	U
67-64-1	Acetone	8.1	J
75-15-0	Carbon disulfide	5.5	U
79-20-9	Methyl acetate	5.5	U
75-09-2	Methylene chloride	0.55	JB
156-60-5	trans-1,2-Dichloroethene	5.5	U
1634-04-4	Methyl tert-butyl ether	5.5	U
75-34-3	1,1-Dichloroethane	5.5	U
156-59-2	cis-1,2-Dichloroethene	5.5	U
78-93-3	2-Butanone	11.	U
74-97-5	Bromochloromethane	5.5	U
67-66-3	Chloroform	5.5	U
71-55-6	1,1,1-Trichloroethane	5.5	U
110-82-7	Cyclohexane	5.5	U
56-23-5	Carbon tetrachloride	5.5	U
71-43-2	Benzene	5.5	U
107-06-2	1,2-Dichloroethane	5.5	U
123-91-1	1,4-Dioxane	110	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M93

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725015

Sample wt/vol: 5.17 (g/mL) g Lab File ID: SV40C015

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 12. Date Analyzed: 06/12/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.5	U
108-87-2	Methylcyclohexane	5.5	U
78-87-5	1,2-Dichloropropane	5.5	U
75-27-4	Bromodichloromethane	5.5	U
10061-01-5	cis-1,3-Dichloropropene	5.5	U
108-10-1	4-Methyl-2-Pentanone	11.	U
108-88-3	Toluene	3.6	J
10061-02-6	trans-1,3-Dichloropropene	5.5	U
79-00-5	1,1,2-Trichloroethane	5.5	U
127-18-4	Tetrachloroethene	5.5	U
591-78-6	2-Hexanone	11.	U
124-48-1	Dibromochloromethane	5.5	U
106-93-4	1,2-Dibromoethane	5.5	U
108-90-7	Chlorobenzene	5.5	U
100-41-4	Ethylbenzene	5.5	U
95-47-6	o-Xylene	5.5	U
179601-23-1	m,p-Xylene	0.23	J
100-42-5	Styrene	5.5	U
75-25-2	Bromoform	5.5	U
98-82-8	Isopropylbenzene	5.5	U
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U
541-73-1	1,3-Dichlorobenzene	5.5	U
106-46-7	1,4-Dichlorobenzene	5.5	U
95-50-1	1,2-Dichlorobenzene	5.5	U
96-12-8	1,2-Dibromo-3-chloropropane	5.5	U
120-82-1	1,2,4-Trichlorobenzene	5.5	U
87-61-6	1,2,3-Trichlorobenzene	5.5	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M93

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725015
Sample wt/vol: 5.17 (g/mL) g Lab File ID: SV40C015
Level: (TRACE or LOW/MED) LOW Date Received: 06/05/2015
% Moisture: not dec. 12. Date Analyzed: 06/12/2015
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV40C015.D
Acq Time : 06/12/2015 00:05
Sample : 1515725015 F9M93
Misc : 1515725

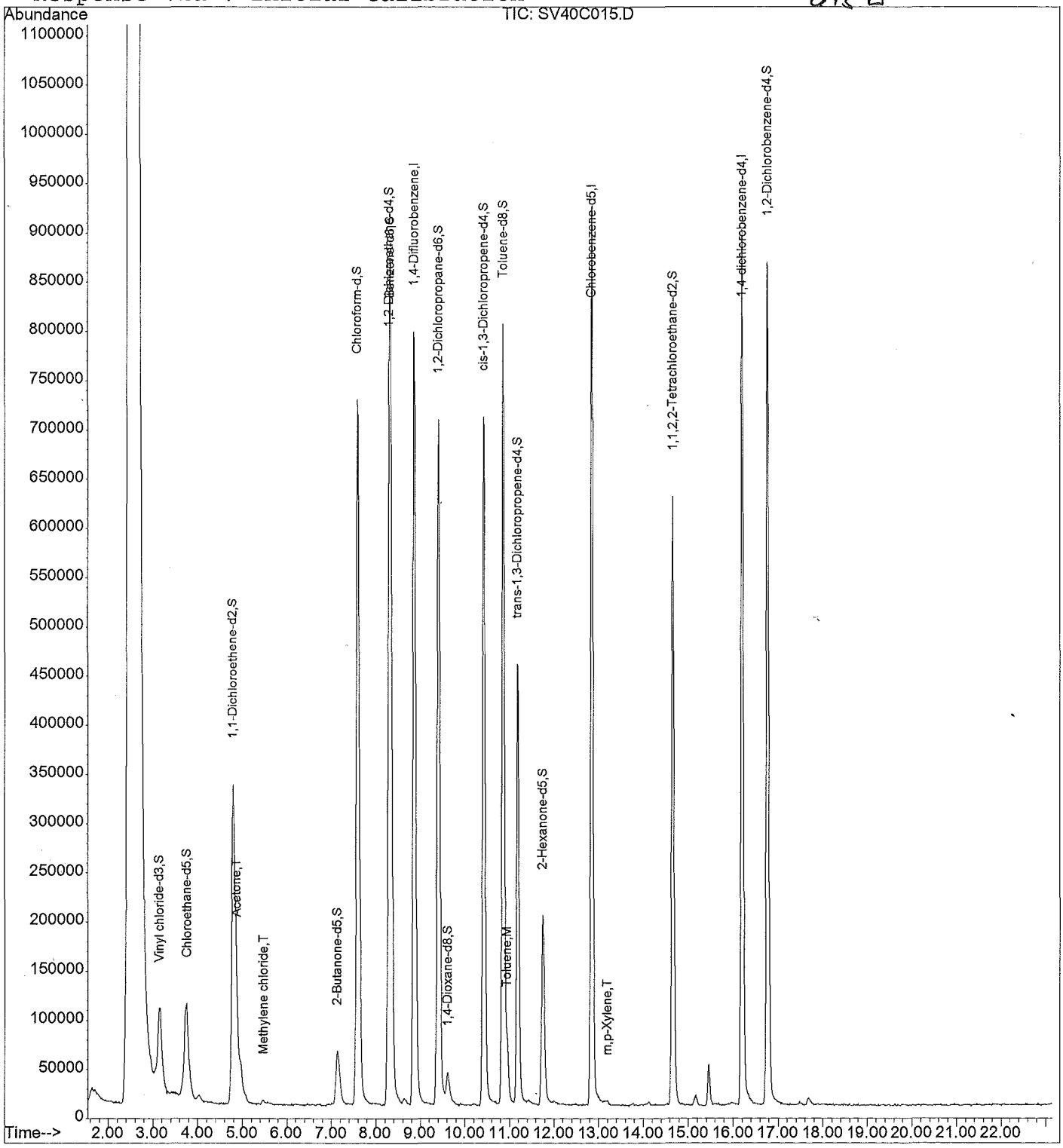
Operator: CQC
Inst : 5972-S
Multiplr: 1.00

Quant Time: Jun 13 12:15 2015

Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6/13/15



00145

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV40C015.D
Acq Time : 06/12/2015 00:05 Operator: CQC
Sample : 1515725015 F9M93 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:15 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.86	114	1232511	50.00 ug/Kg	93.37
30) Chlorobenzene-d5	12.85	117	885077	50.00 ug/Kg	82.69
62) 1,4-dichlorobenzene-d4	16.20	152	415213	50.00 ug/Kg	68.25
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.15	65	345081	43.88 ug/Kg	87.75%
8) Chloroethane-d5	3.75	69	356406	47.63 ug/Kg	95.25%
11) 1,1-Dichloroethene-d2	4.79	63	891263	34.37 ug/Kg	68.74%
22) 2-Butanone-d5	7.12	46	171517	80.34 ug/Kg	80.34%
25) Chloroform-d	7.59	84	1270533	50.02 ug/Kg	100.03%
27) 1,2-Dichloroethane-d4	8.29	65	644992	55.55 ug/Kg	111.10%
29) 1,4-Dioxane-d8	9.61	96	49945	1390.05 ug/Kg	139.00%
35) Benzene-d6	8.32	84	1203198	55.28 ug/Kg	110.56%
39) 1,2-Dichloropropane-d6	9.41	67	603677	56.31 ug/Kg	112.63%
42) cis-1,3-Dichloropropene-d4	10.42	79	757178	42.16 ug/Kg	84.32%
44) trans-1,3-Dichloropropene-	11.18	79	461592	44.57 ug/Kg	89.15%
49) Toluene-d8	10.85	98	997671	50.67 ug/Kg	101.34%
52) 2-Hexanone-d5	11.74	63	131220	95.60 ug/Kg	95.60%
61) 1,1,2,2-Tetrachloroethane-	14.65	84	640384	57.92 ug/Kg	115.84%
67) 1,2-Dichlorobenzene-d4	16.77	152	401627	50.46 ug/Kg	100.92%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	4.88	43	16925	7.37 ug/Kg#	66
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.47	84	4301	0.50 ug/Kg#	74
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

00146

Quantitation Report

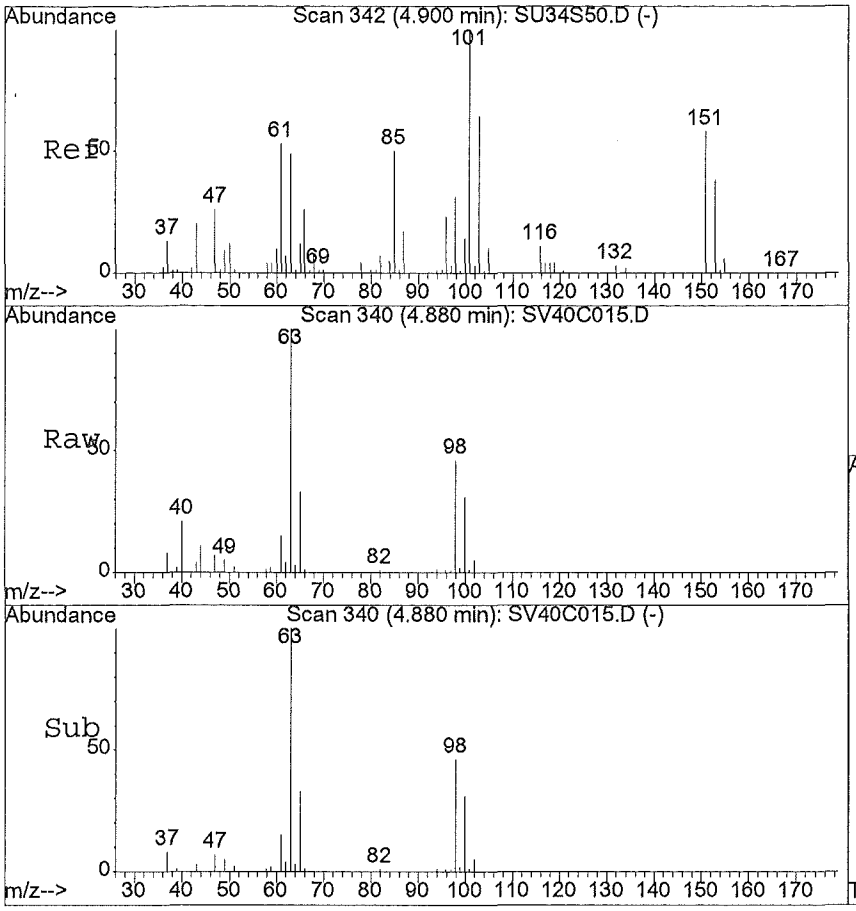
Data File : D:\HPCHEM\1\DATA\11JUN15S\SV40C015.D
Acq Time : 06/12/2015 00:05 Operator: CQC
Sample : 1515725015 F9M93 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:15 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	10.95	91	69996	3.28 ug/Kg	99
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	13.19	106	1974	0.21 ug/Kg	77
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

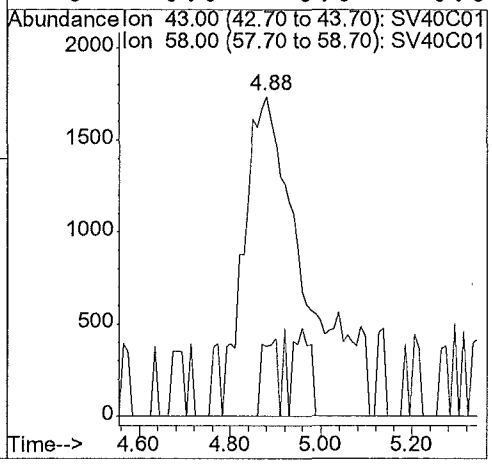
(#) = qualifier out of range (m) = manual integration

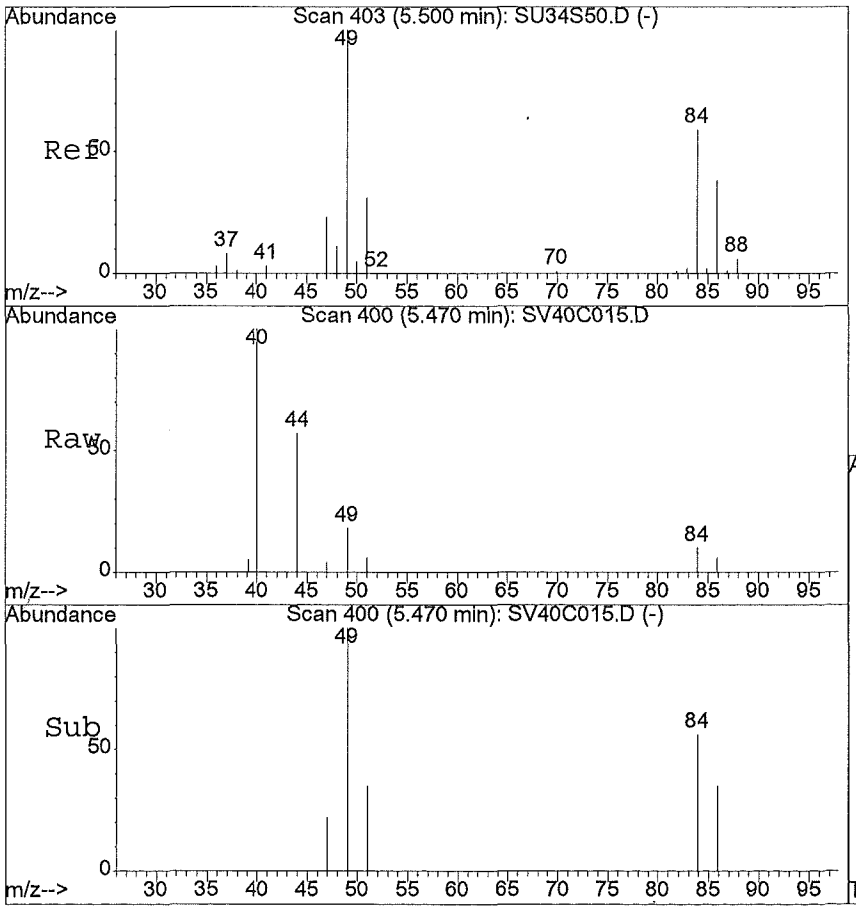


#13
Acetone
Concen: 7.37 ug/Kg
RT: 4.88 min Scan# 340
Delta R.T. -0.01 min
Lab File: SV40C015.D
Acq: 06/12/2015 00:05

Tgt Ion:43 Resp: 16925

Ion	Ratio	Lower	Upper
43	100		
58	5.5	10.9	32.6#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

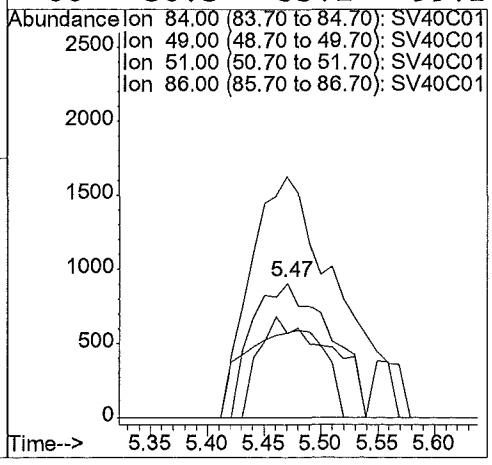




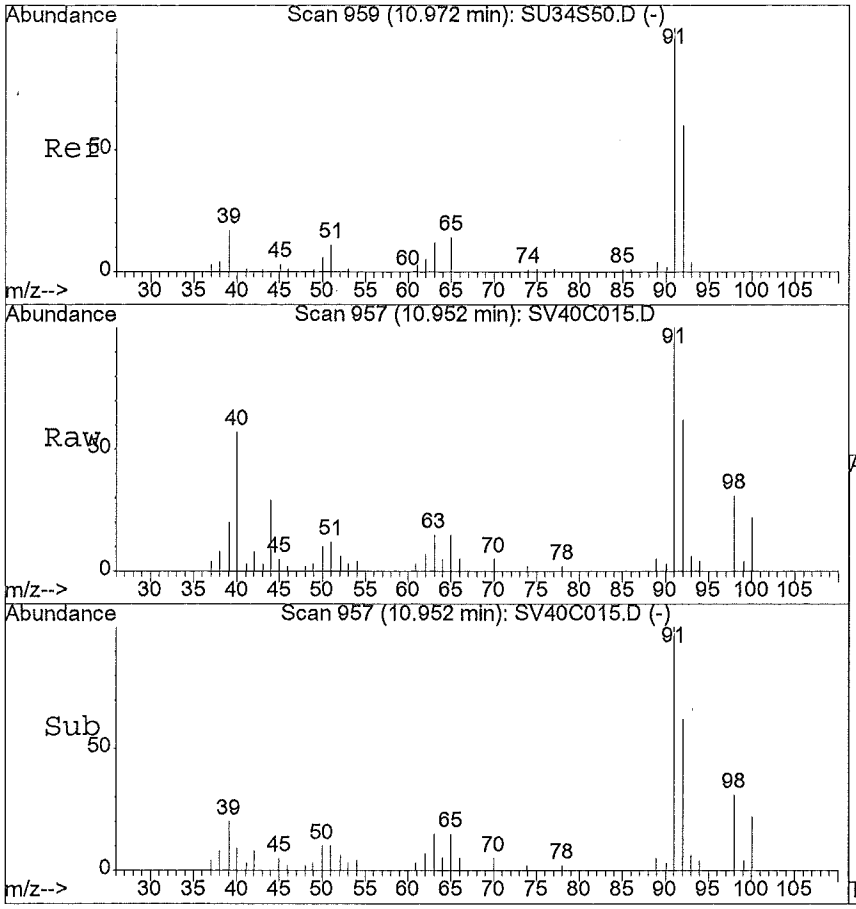
#16
Methylene chloride
Concen: 0.50 ug/Kg
RT: 5.47 min Scan# 400
Delta R.T. -0.03 min
Lab File: SV40C015.D
Acq: 06/12/2015 00:05

Tgt Ion:84 Resp: 4301

Ion	Ratio	Lower	Upper
84	100		
49	201.7	85.4	256.1
51	90.7	26.8	80.4#
86	56.5	33.1	99.2



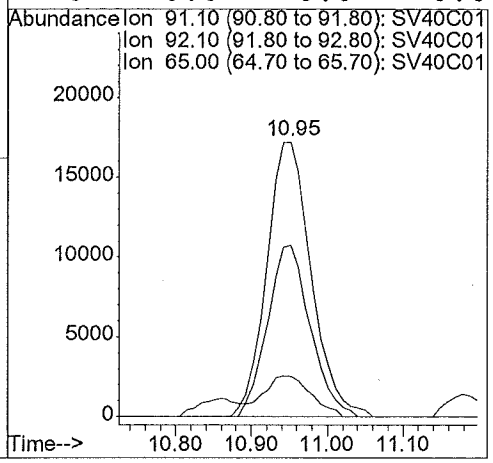
: 00148

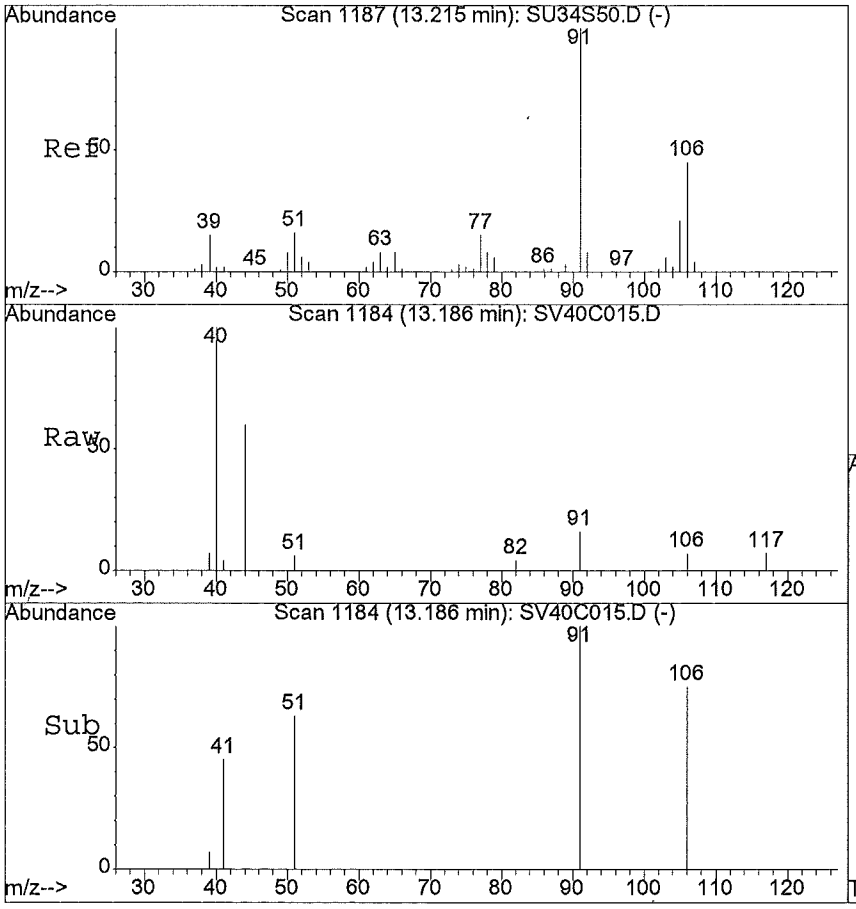


#48
Toluene
Concen: 3.28 ug/Kg
RT: 10.95 min Scan# 957
Delta R.T. -0.02 min
Lab File: SV40C015.D
Acq: 06/12/2015 00:05

Tgt Ion:91.1 Resp: 69996

Ion	Ratio	Lower	Upper
91	100		
92	60.1	48.2	72.2
65	16.4	11.7	17.5
0	0.0	0.0	0.0

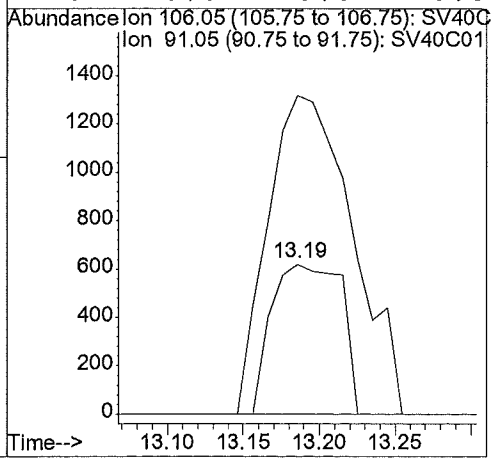




#56
m,p-Xylene
Concen: 0.21 ug/Kg
RT: 13.19 min Scan# 1184
Delta R.T. -0.03 min
Lab File: SV40C015.D
Acq: 06/12/2015 00:05

Tgt Ion:106.05 Resp: 1974

Ion	Ratio	Lower	Upper
106	100		
91	257.4	176.6	264.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0



:00149

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M94

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725016

Sample wt/vol: 6.43 (g/mL) g Lab File ID: SV41C016

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 12. Date Analyzed: 06/12/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	4.4	U
74-87-3	Chloromethane	4.4	U
75-01-4	Vinyl chloride	4.4	U
74-83-9	Bromomethane	4.4	U
75-00-3	Chloroethane	4.4	U
75-69-4	Trichlorofluoromethane	4.4	U
75-35-4	1,1-Dichloroethene	4.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.4	U
67-64-1	Acetone	7.6	J
75-15-0	Carbon disulfide	4.4	U
79-20-9	Methyl acetate	4.4	U
75-09-2	Methylene chloride	0.44	JB
156-60-5	trans-1,2-Dichloroethene	4.4	U
1634-04-4	Methyl tert-butyl ether	4.4	U
75-34-3	1,1-Dichloroethane	4.4	U
156-59-2	cis-1,2-Dichloroethene	4.4	U
78-93-3	2-Butanone	8.8	U
74-97-5	Bromochloromethane	4.4	U
67-66-3	Chloroform	4.4	U
71-55-6	1,1,1-Trichloroethane	4.4	U
110-82-7	Cyclohexane	4.4	U
56-23-5	Carbon tetrachloride	4.4	U
71-43-2	Benzene	4.4	U
107-06-2	1,2-Dichloroethane	4.4	U
123-91-1	1,4-Dioxane	88.	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M94

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725016

Sample wt/vol: 6.43 (g/mL) g Lab File ID: SV41C016

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 12. Date Analyzed: 06/12/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	4.4	U
108-87-2	Methylcyclohexane	4.4	U
78-87-5	1,2-Dichloropropane	4.4	U
75-27-4	Bromodichloromethane	4.4	U
10061-01-5	cis-1,3-Dichloropropene	4.4	U
108-10-1	4-Methyl-2-Pentanone	8.8	U
108-88-3	Toluene	4.7	
10061-02-6	trans-1,3-Dichloropropene	4.4	U
79-00-5	1,1,2-Trichloroethane	4.4	U
127-18-4	Tetrachloroethene	4.4	U
591-78-6	2-Hexanone	8.8	U
124-48-1	Dibromochloromethane	4.4	U
106-93-4	1,2-Dibromoethane	4.4	U
108-90-7	Chlorobenzene	4.4	U
100-41-4	Ethylbenzene	4.4	U
95-47-6	o-Xylene	4.4	U
179601-23-1	m,p-Xylene	4.4	U
100-42-5	Styrene	4.4	U
75-25-2	Bromoform	4.4	U
98-82-8	Isopropylbenzene	4.4	U
79-34-5	1,1,2,2-Tetrachloroethane	4.4	U
541-73-1	1,3-Dichlorobenzene	4.4	U
106-46-7	1,4-Dichlorobenzene	4.4	U
95-50-1	1,2-Dichlorobenzene	4.4	U
96-12-8	1,2-Dibromo-3-chloropropane	4.4	U
120-82-1	1,2,4-Trichlorobenzene	4.4	U
87-61-6	1,2,3-Trichlorobenzene	4.4	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M94

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725016
Sample wt/vol: 6.43 (g/mL) g Lab File ID: SV41C016
Level: (TRACE or LOW/MED) LOW Date Received: 06/05/2015
% Moisture: not dec. 12. Date Analyzed: 06/12/2015
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

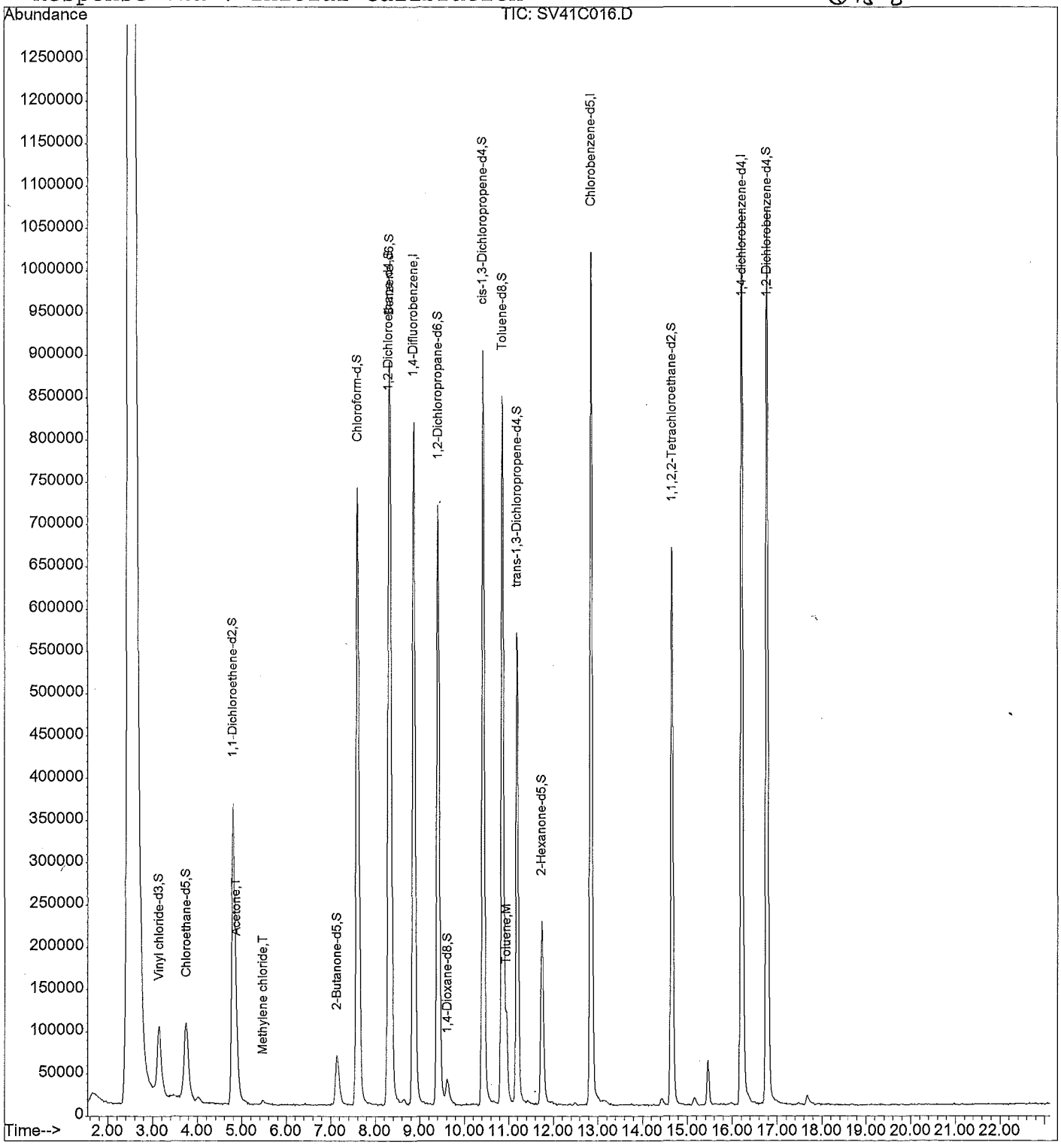
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV41C016.D
Acq Time : 06/12/2015 00:35 Operator: CQC
Sample : 1515725016 F9M94 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:16 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6.13.15



00159

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV41C016.D
Acq Time : 06/12/2015 00:35 Operator: CQC
Sample : 1515725016 F9M94 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:16 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.86	114	1265072	50.00 ug/Kg	95.83
30) Chlorobenzene-d5	12.85	117	973831	50.00 ug/Kg	90.98
62) 1,4-dichlorobenzene-d4	16.21	152	501994	50.00 ug/Kg	82.51
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.14	65	340721	42.21 ug/Kg	84.41%
8) Chloroethane-d5	3.74	69	348283	45.34 ug/Kg	90.68%
11) 1,1-Dichloroethene-d2	4.80	63	886840	33.32 ug/Kg	66.64%
22) 2-Butanone-d5	7.13	46	199084	90.85 ug/Kg	90.85%
25) Chloroform-d	7.60	84	1295278	49.68 ug/Kg	99.36%
27) 1,2-Dichloroethane-d4	8.29	65	646521	54.25 ug/Kg	108.49%
29) 1,4-Dioxane-d8	9.61	96	44600	1209.34 ug/Kg	120.93%
35) Benzene-d6	8.33	84	1237997	51.70 ug/Kg	103.39%
39) 1,2-Dichloropropane-d6	9.41	67	615258	52.16 ug/Kg	104.33%
42) cis-1,3-Dichloropropene-d4	10.42	79	963351	48.75 ug/Kg	97.50%
44) trans-1,3-Dichloropropene-	11.18	79	568177	49.87 ug/Kg	99.73%
49) Toluene-d8	10.85	98	1060220	48.94 ug/Kg	97.87%
52) 2-Hexanone-d5	11.74	63	153463	101.62 ug/Kg	101.62%
61) 1,1,2,2-Tetrachloroethane-	14.65	84	684103	56.24 ug/Kg	112.47%
67) 1,2-Dichlorobenzene-d4	16.77	152	488475	50.76 ug/Kg	101.52%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	4.88	43	20383	8.64 ug/Kg#	72
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.47	84	4413	0.50 ug/Kg#	71
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

:90154

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV41C016.D
Acq Time : 06/12/2015 00:35 Operator: CQC
Sample : 1515725016 F9M94 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

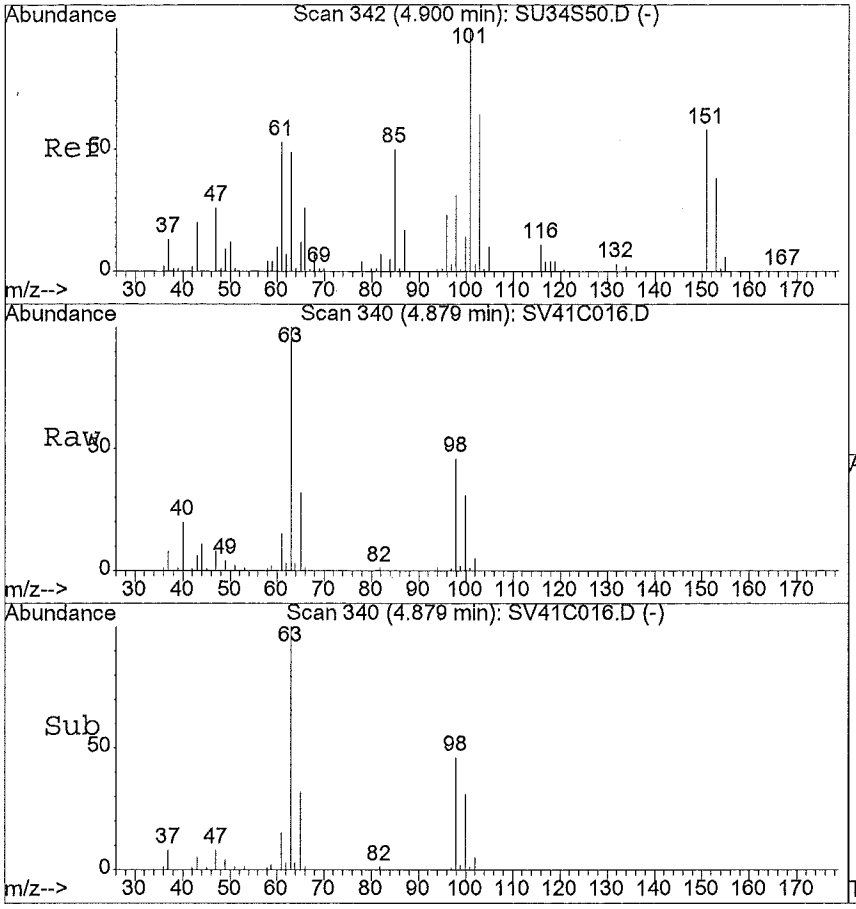
Quant Time: Jun 13 12:16 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	10.95	91	123862	5.28 ug/Kg#	97
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

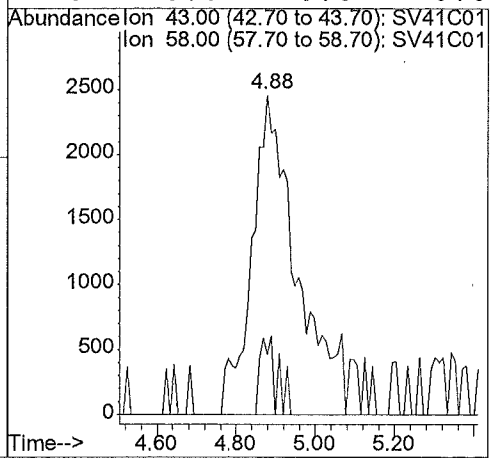
:00155

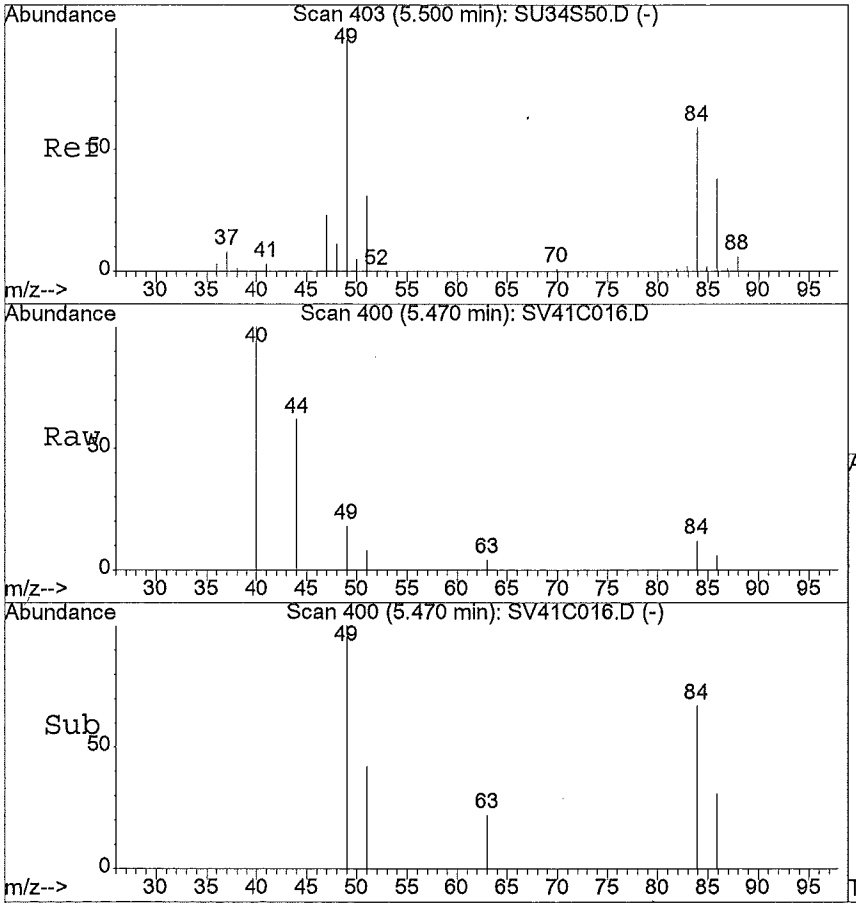


#13
Acetone
Concen: 8.64 ug/Kg
RT: 4.88 min Scan# 340
Delta R.T. -0.01 min
Lab File: SV41C016.D
Acq: 06/12/2015 00:35

Tgt Ion:43 Resp: 20383

Ion	Ratio	Lower	Upper
43	100		
58	8.5	10.9	32.6#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

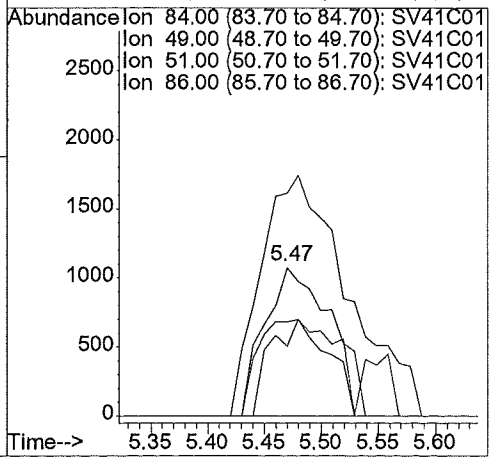




#16
Methylene chloride
Concen: 0.50 ug/Kg
RT: 5.47 min Scan# 400
Delta R.T. -0.03 min
Lab File: SV41C016.D
Acq: 06/12/2015 00:35

Tgt Ion:84 Resp: 4413

Ion	Ratio	Lower	Upper
84	100		
49	210.2	85.4	256.1
51	88.3	26.8	80.4#
86	55.5	33.1	99.2



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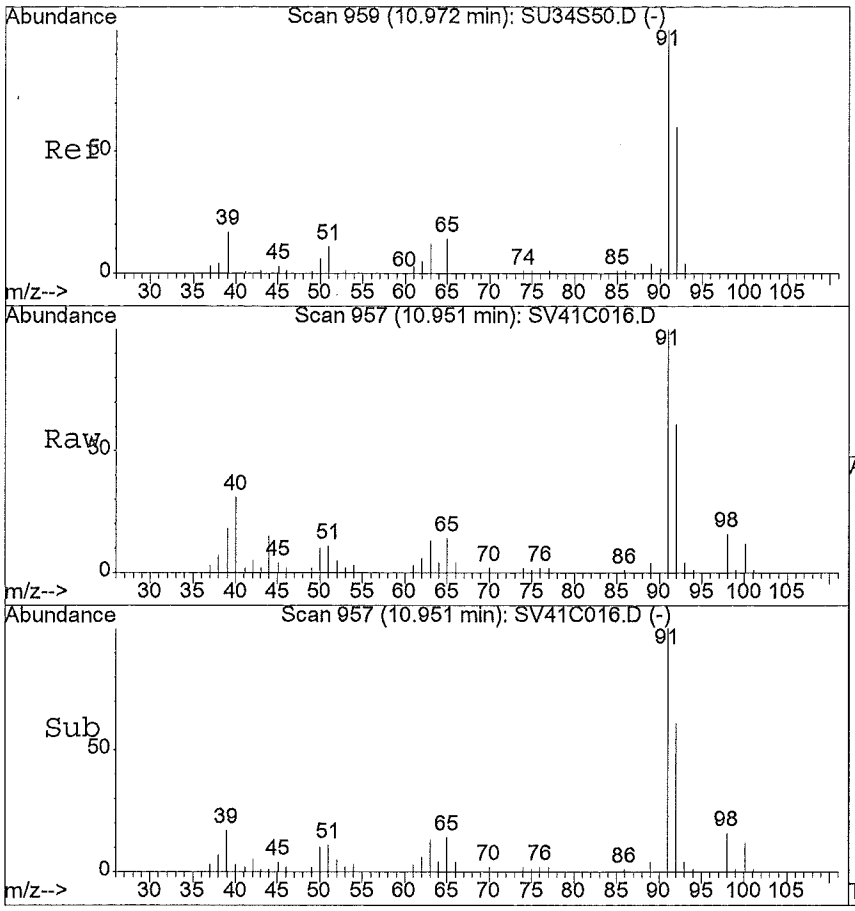
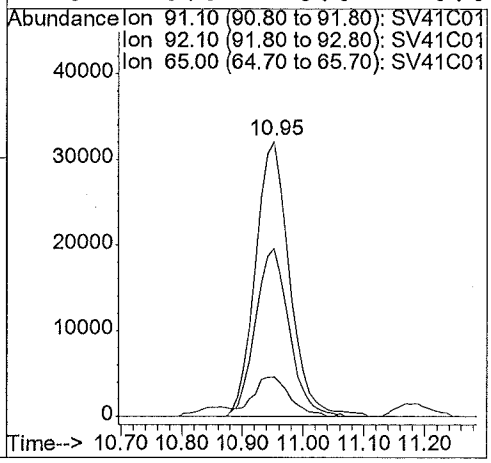


#48
Toluene
Concen: 5.28 ug/Kg
RT: 10.95 min Scan# 957
Delta R.T. -0.02 min
Lab File: SV41C016.D
Acq: 06/12/2015 00:35

Tgt Ion:91.1 Resp: 123862

Ion	Ratio	Lower	Upper
91	100		
92	60.5	48.2	72.2
65	19.3	11.7	17.5#
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M95

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725017

Sample wt/vol: 6.14 (g/mL) g Lab File ID: SV42C017

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 8.0 Date Analyzed: 06/12/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	4.4	U
74-87-3	Chloromethane	4.4	U
75-01-4	Vinyl chloride	4.4	U
74-83-9	Bromomethane	4.4	U
75-00-3	Chloroethane	4.4	U
75-69-4	Trichlorofluoromethane	4.4	U
75-35-4	1,1-Dichloroethene	4.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.4	U
67-64-1	Acetone	10.	
75-15-0	Carbon disulfide	4.4	U
79-20-9	Methyl acetate	4.4	U
75-09-2	Methylene chloride	0.38	JB
156-60-5	trans-1,2-Dichloroethene	4.4	U
1634-04-4	Methyl tert-butyl ether	4.4	U
75-34-3	1,1-Dichloroethane	4.4	U
156-59-2	cis-1,2-Dichloroethene	4.4	U
78-93-3	2-Butanone	8.9	U
74-97-5	Bromochloromethane	4.4	U
67-66-3	Chloroform	4.4	U
71-55-6	1,1,1-Trichloroethane	4.4	U
110-82-7	Cyclohexane	4.4	U
56-23-5	Carbon tetrachloride	4.4	U
71-43-2	Benzene	4.4	U
107-06-2	1,2-Dichloroethane	4.4	U
123-91-1	1,4-Dioxane	89.	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M95

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725017

Sample wt/vol: 6.14 (g/mL) g Lab File ID: SV42C017

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 8.0 Date Analyzed: 06/12/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	4.4	U
108-87-2	Methylcyclohexane	4.4	U
78-87-5	1,2-Dichloropropane	4.4	U
75-27-4	Bromodichloromethane	4.4	U
10061-01-5	cis-1,3-Dichloropropene	4.4	U
108-10-1	4-Methyl-2-Pentanone	8.9	U
108-88-3	Toluene	4.1	J
10061-02-6	trans-1,3-Dichloropropene	4.4	U
79-00-5	1,1,2-Trichloroethane	4.4	U
127-18-4	Tetrachloroethene	4.4	U
591-78-6	2-Hexanone	8.9	U
124-48-1	Dibromochloromethane	4.4	U
106-93-4	1,2-Dibromoethane	4.4	U
108-90-7	Chlorobenzene	4.4	U
100-41-4	Ethylbenzene	4.4	U
95-47-6	o-Xylene	4.4	U
179601-23-1	m,p-Xylene	4.4	U
100-42-5	Styrene	4.4	U
75-25-2	Bromoform	4.4	U
98-82-8	Isopropylbenzene	4.4	U
79-34-5	1,1,2,2-Tetrachloroethane	4.4	U
541-73-1	1,3-Dichlorobenzene	4.4	U
106-46-7	1,4-Dichlorobenzene	4.4	U
95-50-1	1,2-Dichlorobenzene	4.4	U
96-12-8	1,2-Dibromo-3-chloropropane	4.4	U
120-82-1	1,2,4-Trichlorobenzene	4.4	U
87-61-6	1,2,3-Trichlorobenzene	4.4	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9M95

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725017

Sample wt/vol: 6.14 (g/mL) g Lab File ID: SV42C017

Level: (TRACE or LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 8.0 Date Analyzed: 06/12/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

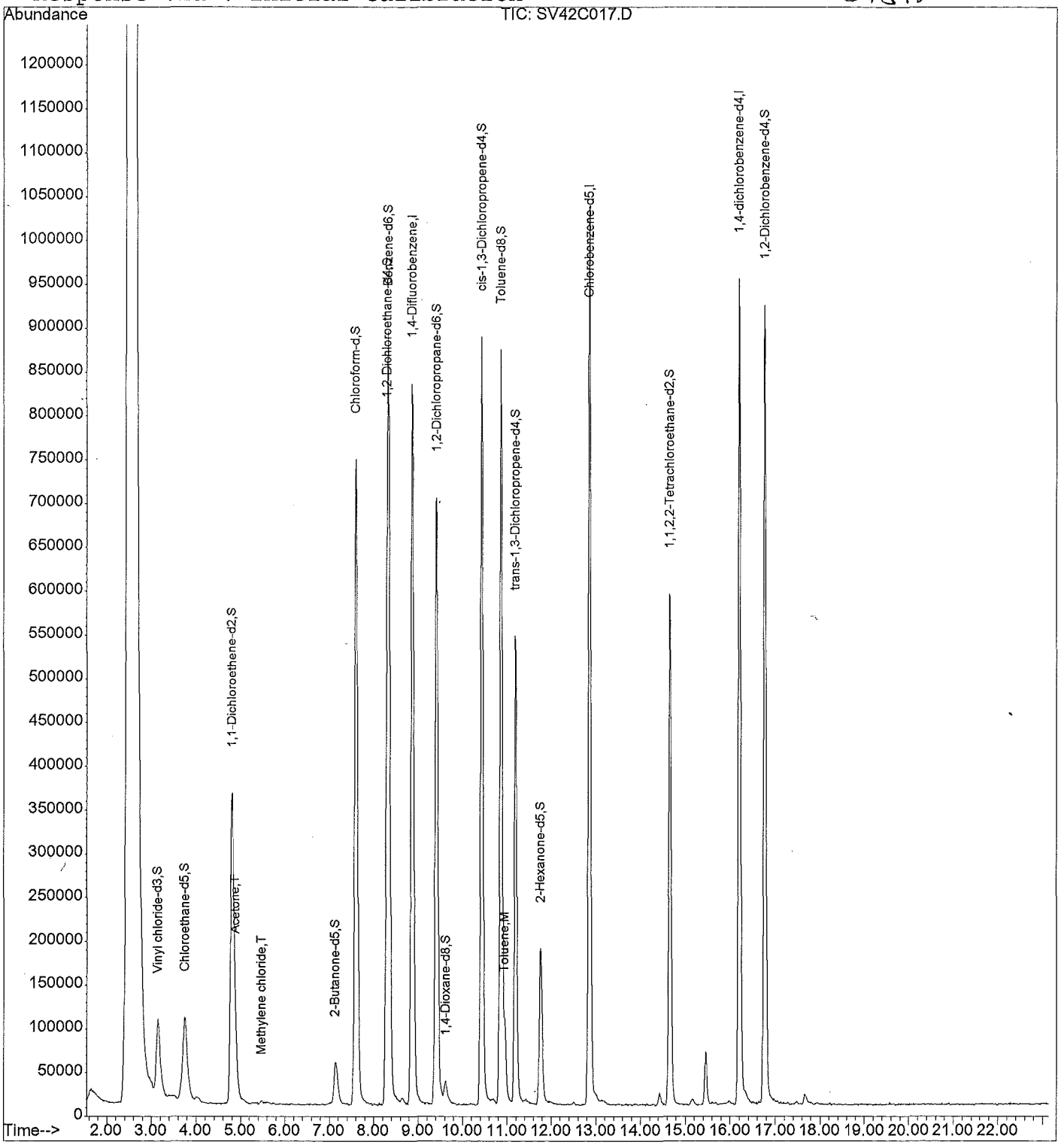
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV42C017.D
Acq Time : 06/12/2015 01:05 Operator: CQC
Sample : 1515725017 F9M95 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:16 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6.13.15



: 09161

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV42C017.D
Acq Time : 06/12/2015 01:05 Operator: CQC
Sample : 1515725017 F9M95 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:16 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.86	114	1284606	50.00 ug/Kg	97.31
30) Chlorobenzene-d5	12.85	117	965886	50.00 ug/Kg	90.23
62) 1,4-dichlorobenzene-d4	16.20	152	449706	50.00 ug/Kg	73.92
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.14	65	353171	43.08 ug/Kg	86.17%
8) Chloroethane-d5	3.74	69	355475	45.57 ug/Kg	91.15%
11) 1,1-Dichloroethene-d2	4.80	63	924118	34.19 ug/Kg	68.38%
22) 2-Butanone-d5	7.13	46	153170	68.84 ug/Kg	68.84%
25) Chloroform-d	7.59	84	1298834	49.06 ug/Kg	98.11%
27) 1,2-Dichloroethane-d4	8.29	65	615786	50.88 ug/Kg	101.77%
29) 1,4-Dioxane-d8	9.62	96	37894	1011.88 ug/Kg	101.19%
35) Benzene-d6	8.33	84	1258681	52.99 ug/Kg	105.98%
39) 1,2-Dichloropropane-d6	9.41	67	605716	51.78 ug/Kg	103.55%
42) cis-1,3-Dichloropropene-d4	10.43	79	930246	47.46 ug/Kg	94.93%
44) trans-1,3-Dichloropropene-	11.18	79	542332	47.99 ug/Kg	95.98%
49) Toluene-d8	10.86	98	1076608	50.10 ug/Kg	100.20%
52) 2-Hexanone-d5	11.75	63	117987	78.77 ug/Kg	78.77%
61) 1,1,2,2-Tetrachloroethane-	14.65	84	612221	50.74 ug/Kg	101.48%
67) 1,2-Dichlorobenzene-d4	16.76	152	425013	49.30 ug/Kg	98.60%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	4.89	43	26908	11.24 ug/Kg	90
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.48	84	3881	0.43 ug/Kg#	82
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

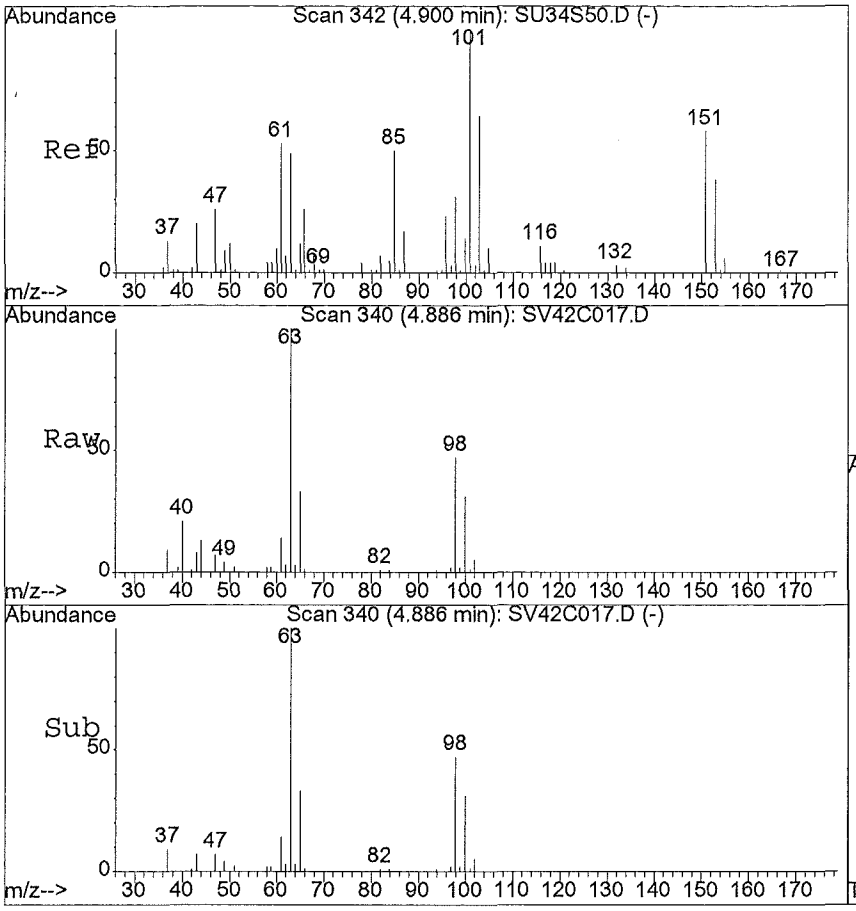
Data File : D:\HPCHEM\1\DATA\11JUN15S\SV42C017.D
Acq Time : 06/12/2015 01:05 Operator: CQC
Sample : 1515725017 F9M95 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:16 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	10.95	91	106587	4.58 ug/Kg#	97
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

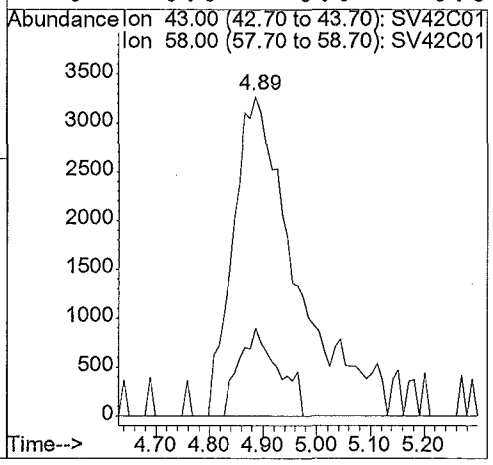
(#) = qualifier out of range (m) = manual integration

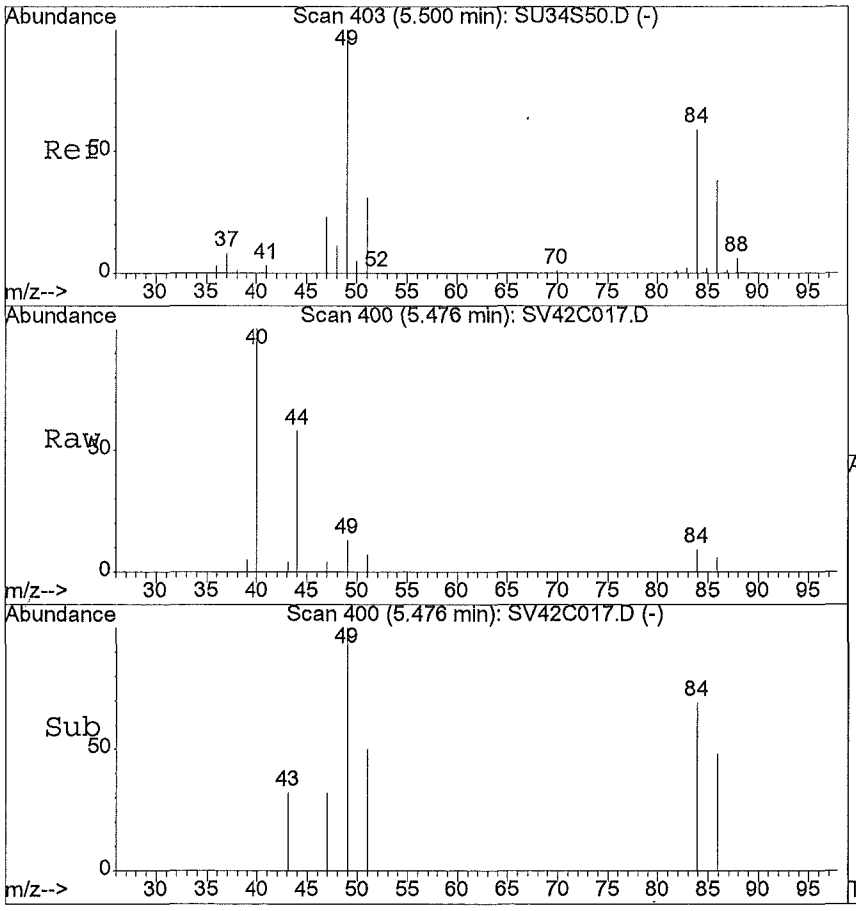


#13
Acetone
Concen: 11.24 ug/Kg
RT: 4.89 min Scan# 340
Delta R.T. -0.00 min
Lab File: SV42C017.D
Acq: 06/12/2015 01:05

Tgt Ion:43 Resp: 26908

Ion	Ratio	Lower	Upper
43	100		
58	17.0	10.9	32.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0

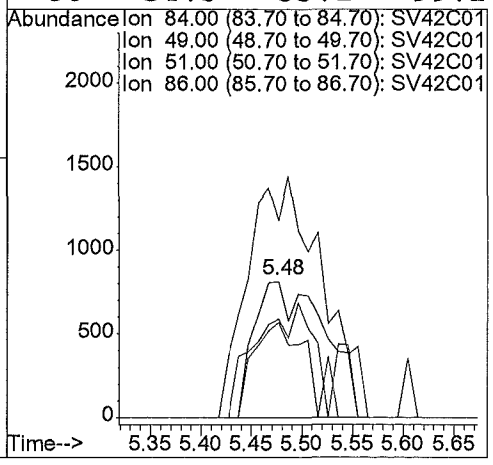


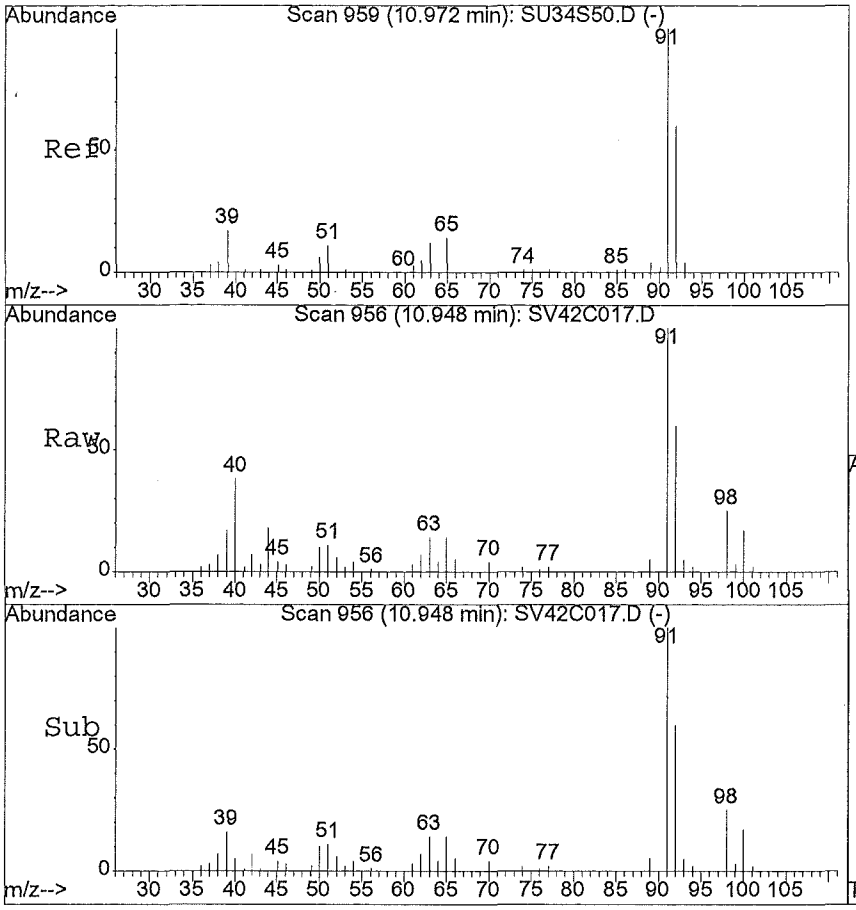


#16
Methylene chloride
Concen: 0.43 ug/Kg
RT: 5.48 min Scan# 400
Delta R.T. -0.02 min
Lab File: SV42C017.D
Acq: 06/12/2015 01:05

Tgt Ion:84 Resp: 3881

Ion	Ratio	Lower	Upper
84	100		
49	187.1	85.4	256.1
51	81.7	26.8	80.4#
86	54.3	33.1	99.2

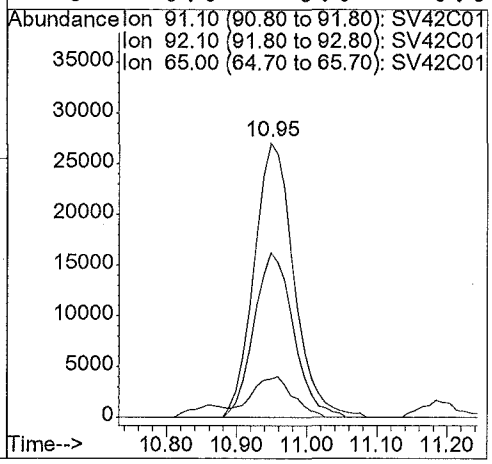




#48
Toluene
Concen: 4.58 ug/Kg
RT: 10.95 min Scan# 956
Delta R.T. -0.02 min
Lab File: SV42C017.D
Acq: 06/12/2015 01:05

Tgt Ion:91.1 Resp: 106587

Ion	Ratio	Lower	Upper
91	100		
92	59.7	48.2	72.2
65	19.5	11.7	17.5#
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M96

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725018

Sample wt/vol: 3.58 (g/mL) g Lab File ID: SV48C018

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 20. Date Analyzed: 06/13/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	8.7	U
74-87-3	Chloromethane	8.7	U
75-01-4	Vinyl chloride	8.7	U
74-83-9	Bromomethane	8.7	U
75-00-3	Chloroethane	8.7	U
75-69-4	Trichlorofluoromethane	8.7	U
75-35-4	1,1-Dichloroethene	8.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	8.7	U
67-64-1	Acetone	12.	J
75-15-0	Carbon disulfide	8.7	U
79-20-9	Methyl acetate	8.7	U
75-09-2	Methylene chloride	0.38	JB
156-60-5	trans-1,2-Dichloroethene	8.7	U
1634-04-4	Methyl tert-butyl ether	8.7	U
75-34-3	1,1-Dichloroethane	8.7	U
156-59-2	cis-1,2-Dichloroethene	8.7	U
78-93-3	2-Butanone	17.	U
74-97-5	Bromochloromethane	8.7	U
67-66-3	Chloroform	8.7	U
71-55-6	1,1,1-Trichloroethane	8.7	U
110-82-7	Cyclohexane	8.7	U
56-23-5	Carbon tetrachloride	8.7	U
71-43-2	Benzene	8.7	U
107-06-2	1,2-Dichloroethane	8.7	U
123-91-1	1,4-Dioxane	170	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M96

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725018

Sample wt/vol: 3.58 (g/mL) g Lab File ID: SV48C018

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 20. Date Analyzed: 06/13/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	8.7	U
108-87-2	Methylcyclohexane	8.7	U
78-87-5	1,2-Dichloropropane	8.7	U
75-27-4	Bromodichloromethane	8.7	U
10061-01-5	cis-1,3-Dichloropropene	8.7	U
108-10-1	4-Methyl-2-Pentanone	17.	U
108-88-3	Toluene	4.4	J
10061-02-6	trans-1,3-Dichloropropene	8.7	U
79-00-5	1,1,2-Trichloroethane	8.7	U
127-18-4	Tetrachloroethene	8.7	U
591-78-6	2-Hexanone	17.	U
124-48-1	Dibromochloromethane	8.7	U
106-93-4	1,2-Dibromoethane	8.7	U
108-90-7	Chlorobenzene	8.7	U
100-41-4	Ethylbenzene	8.7	U
95-47-6	o-Xylene	8.7	U
179601-23-1	m,p-Xylene	0.75	J
100-42-5	Styrene	8.7	U
75-25-2	Bromoform	8.7	U
98-82-8	Isopropylbenzene	8.7	U
79-34-5	1,1,2,2-Tetrachloroethane	8.7	U
541-73-1	1,3-Dichlorobenzene	8.7	U
106-46-7	1,4-Dichlorobenzene	8.7	U
95-50-1	1,2-Dichlorobenzene	8.7	U
96-12-8	1,2-Dibromo-3-chloropropane	8.7	U
120-82-1	1,2,4-Trichlorobenzene	8.7	U
87-61-6	1,2,3-Trichlorobenzene	8.7	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M96

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725018
Sample wt/vol: 3.58 (g/mL) g Lab File ID: SV48C018
Level: (TRACE or LOW/MED) LOW Date Received: 06/05/2015
% Moisture: not dec. 20. Date Analyzed: 06/13/2015
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

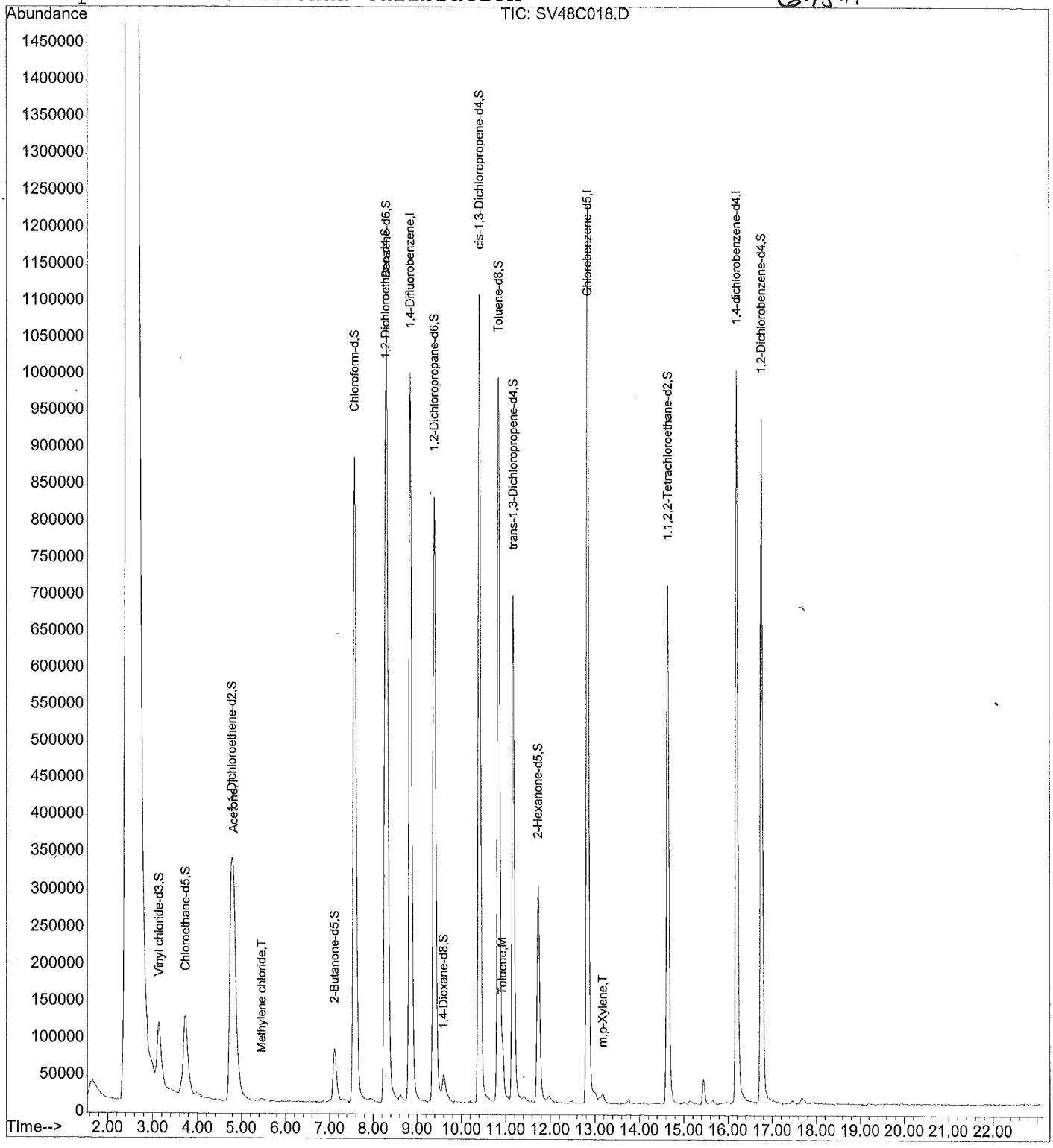
Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV48C018.D
Acq Time : 06/13/2015 11:57 Operator: CQC
Sample : 1515725018 F9M96 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:28 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6.13.15



: 001169

Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV48C018.D
Acq Time : 06/13/2015 11:57
Sample : 1515725018 F9M96
Misc : 1515725

Operator: CQC
Inst : 5972-S
Multiplr: 1.00

Quant Time: Jun 13 12:28 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.85	114	1564238	50.00 ug/Kg	118.49
30) Chlorobenzene-d5	12.83	117	1152653	50.00 ug/Kg	107.68
62) 1,4-dichlorobenzene-d4	16.19	152	471841	50.00 ug/Kg	77.55
System Monitoring Compounds					**%Recovery**
5) Vinyl chloride-d3	3.14	65	401419	40.22 ug/Kg	80.43%
8) Chloroethane-d5	3.72	69	421039	44.33 ug/Kg	88.66%
11) 1,1-Dichloroethene-d2	4.78	63	1112242	33.79 ug/Kg	67.59%
22) 2-Butanone-d5	7.11	46	253752	93.65 ug/Kg	93.65%
25) Chloroform-d	7.58	84	1588037	49.26 ug/Kg	98.52%
27) 1,2-Dichloroethane-d4	8.28	65	779954	52.93 ug/Kg	105.85%
29) 1,4-Dioxane-d8	9.60	96	58112	1274.36 ug/Kg	127.44%
35) Benzene-d6	8.32	84	1517792	53.55 ug/Kg	107.09%
39) 1,2-Dichloropropane-d6	9.39	67	730123	52.30 ug/Kg	104.60%
42) cis-1,3-Dichloropropene-d4	10.41	79	1179709	50.44 ug/Kg	100.88%
44) trans-1,3-Dichloropropene-	11.17	79	709420	52.60 ug/Kg	105.21%
49) Toluene-d8	10.84	98	1284823	50.10 ug/Kg	100.21%
52) 2-Hexanone-d5	11.73	63	213687	119.55 ug/Kg	119.55%
61) 1,1,2,2-Tetrachloroethane-	14.64	84	728093	50.57 ug/Kg	101.13%
67) 1,2-Dichlorobenzene-d4	16.76	152	429668	47.50 ug/Kg	95.00%
Target Compounds					**Qvalue**
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	4.84	43	20546	7.05 ug/Kg#	77
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.46	84	2417	0.22 ug/Kg#	38
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV48C018.D
Acq Time : 06/13/2015 11:57 Operator: CQC
Sample : 1515725018 F9M96 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

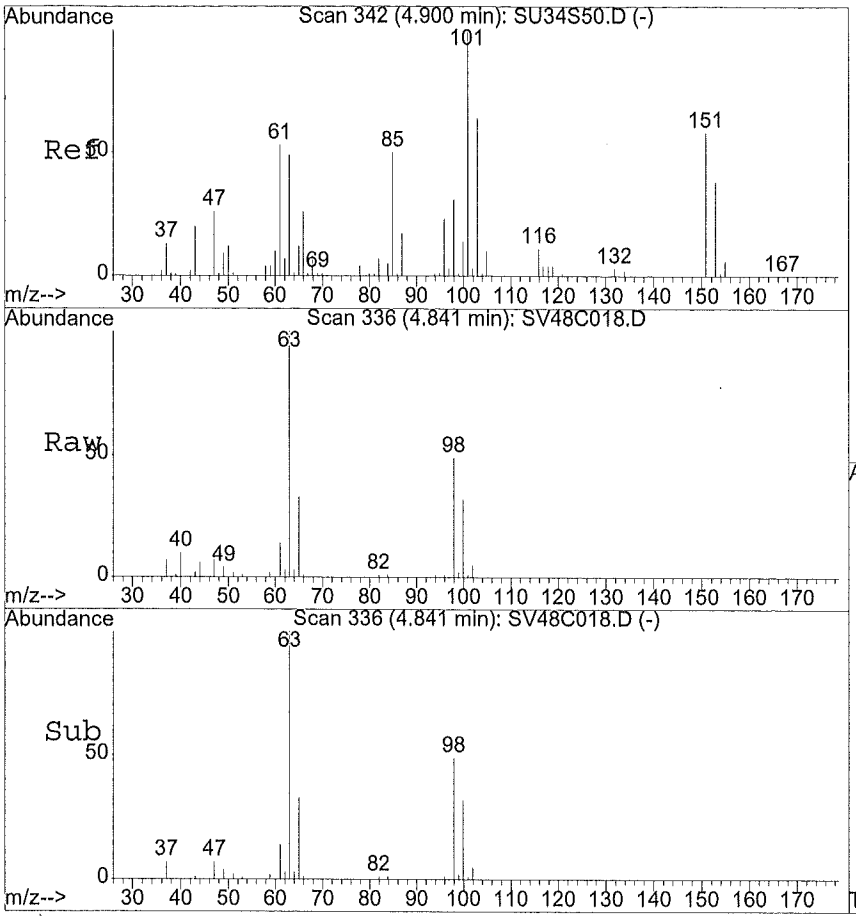
Quant Time: Jun 13 12:28 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	10.93	91	70622	2.54 ug/Kg	98
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	13.18	106	5235	0.43 ug/Kg	91
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

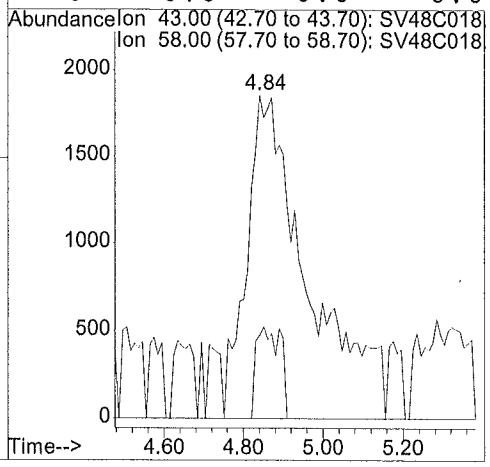
00171

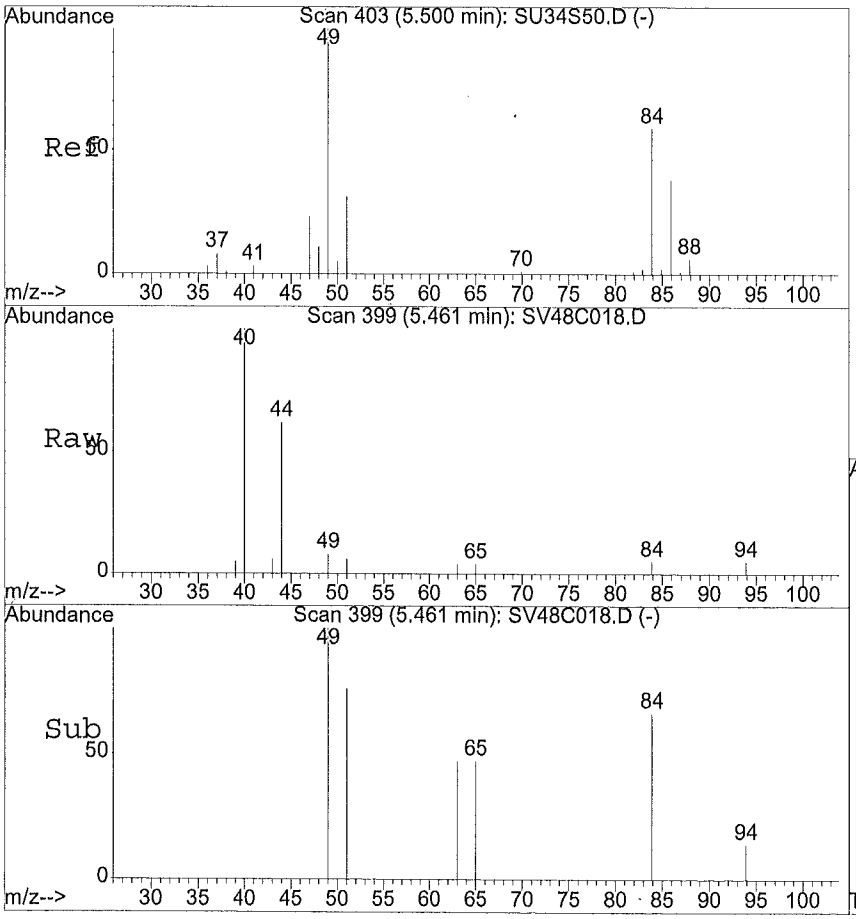


#13
Acetone
Concen: 7.05 ug/Kg
RT: 4.84 min Scan# 336
Delta R.T. -0.05 min
Lab File: SV48C018.D
Acq: 06/13/2015 11:57

Tgt Ion:43 Resp: 20546

Ion	Ratio	Lower	Upper
43	100		
58	10.7	10.9	32.6#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

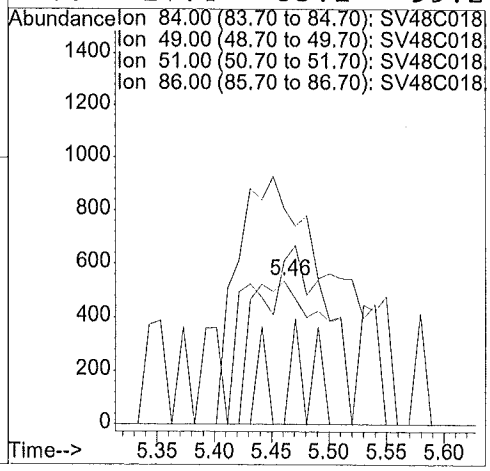




#16
Methylene chloride
Concen: 0.22 ug/Kg
RT: 5.46 min Scan# 399
Delta R.T. -0.04 min
Lab File: SV48C018.D
Acq: 06/13/2015 11:57

Tgt Ion:84 Resp: 2417

Ion	Ratio	Lower	Upper
84	100		
49	223.2	85.4	256.1
51	165.0	26.8	80.4#
86	27.4	33.1	99.2#



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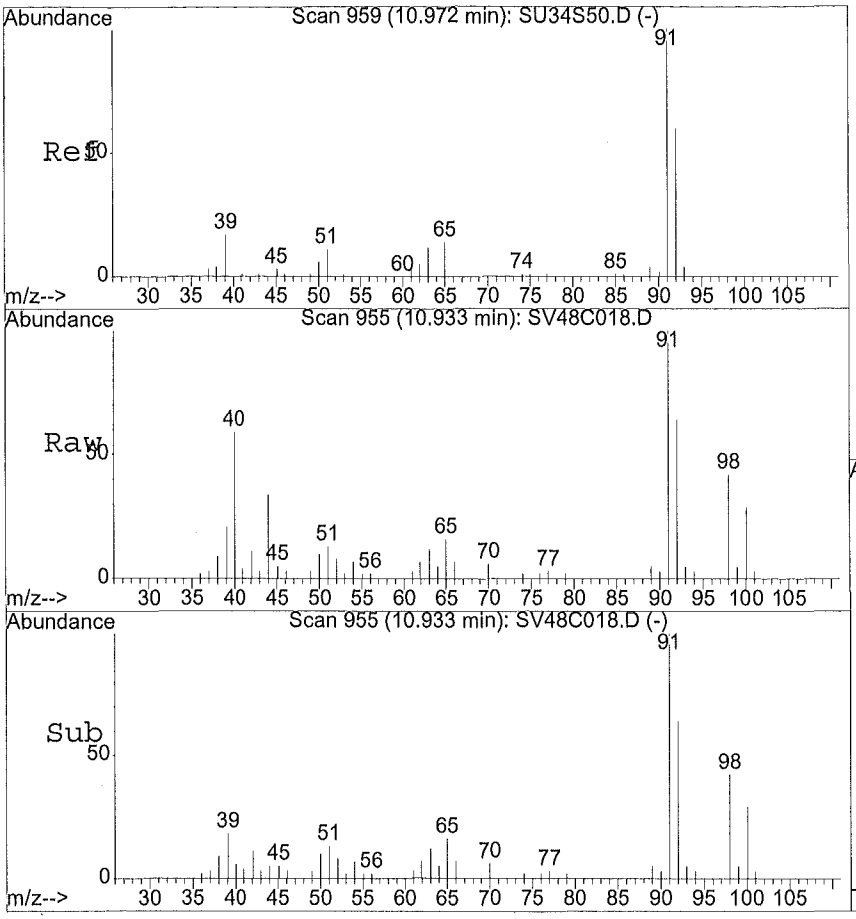
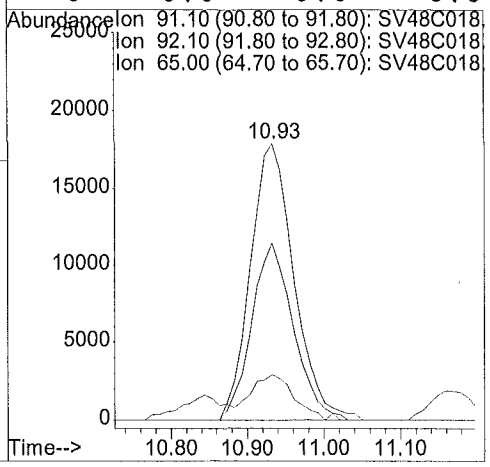
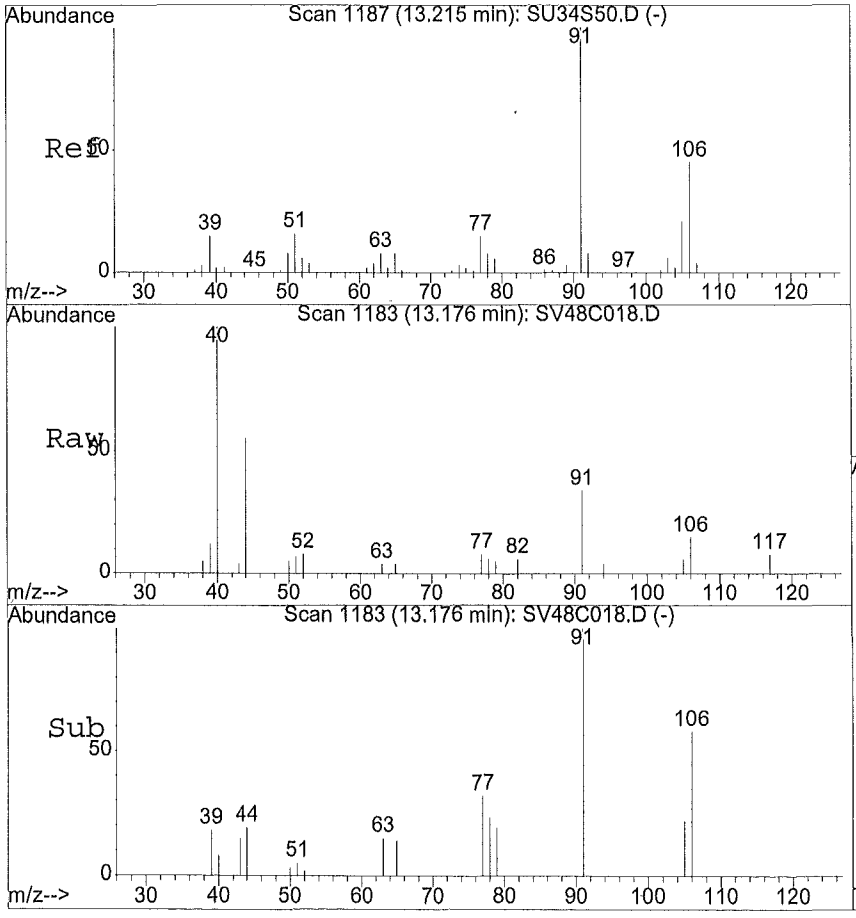


#48
Toluene
Concen: 2.54 ug/Kg
RT: 10.93 min Scan# 955
Delta R.T. -0.04 min
Lab File: SV48C018.D
Acq: 06/13/2015 11:57

Tgt Ion:91.1 Resp: 70622

Ion	Ratio	Lower	Upper
91	100		
92	61.2	48.2	72.2
65	16.7	11.7	17.5
0	0.0	0.0	0.0

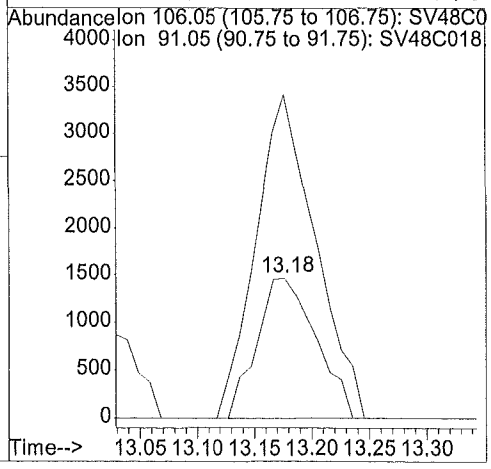




#56
m,p-Xylene
Concen: 0.43 ug/Kg
RT: 13.18 min Scan# 1183
Delta R.T. -0.04 min
Lab File: SV48C018.D
Acq: 06/13/2015 11:57

Tgt Ion:106.05 Resp: 5235

Ion	Ratio	Lower	Upper
106	100		
91	234.7	176.6	264.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M97

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725019

Sample wt/vol: 4.65 (g/mL) g Lab File ID: SV49C019

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 20. Date Analyzed: 06/13/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	6.7	U
74-87-3	Chloromethane	6.7	U
75-01-4	Vinyl chloride	6.7	U
74-83-9	Bromomethane	6.7	U
75-00-3	Chloroethane	6.7	U
75-69-4	Trichlorofluoromethane	6.7	U
75-35-4	1,1-Dichloroethene	6.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.7	U
67-64-1	Acetone	8.0	J
75-15-0	Carbon disulfide	6.7	U
79-20-9	Methyl acetate	6.7	U
75-09-2	Methylene chloride	6.7	U
156-60-5	trans-1,2-Dichloroethene	6.7	U
1634-04-4	Methyl tert-butyl ether	6.7	U
75-34-3	1,1-Dichloroethane	6.7	U
156-59-2	cis-1,2-Dichloroethene	6.7	U
78-93-3	2-Butanone	13.	U
74-97-5	Bromochloromethane	6.7	U
67-66-3	Chloroform	6.7	U
71-55-6	1,1,1-Trichloroethane	6.7	U
110-82-7	Cyclohexane	6.7	U
56-23-5	Carbon tetrachloride	6.7	U
71-43-2	Benzene	6.7	U
107-06-2	1,2-Dichloroethane	6.7	U
123-91-1	1,4-Dioxane	130	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M97

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725019

Sample wt/vol: 4.65 (g/mL) g Lab File ID: SV49C019

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 20. Date Analyzed: 06/13/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	6.7	U
108-87-2	Methylcyclohexane	6.7	U
78-87-5	1,2-Dichloropropane	6.7	U
75-27-4	Bromodichloromethane	6.7	U
10061-01-5	cis-1,3-Dichloropropene	6.7	U
108-10-1	4-Methyl-2-Pentanone	13.	U
108-88-3	Toluene	18.	
10061-02-6	trans-1,3-Dichloropropene	6.7	U
79-00-5	1,1,2-Trichloroethane	6.7	U
127-18-4	Tetrachloroethene	6.7	U
591-78-6	2-Hexanone	13.	U
124-48-1	Dibromochloromethane	6.7	U
106-93-4	1,2-Dibromoethane	6.7	U
108-90-7	Chlorobenzene	6.7	U
100-41-4	Ethylbenzene	0.27	J
95-47-6	o-Xylene	6.7	U
179601-23-1	m,p-Xylene	0.71	J
100-42-5	Styrene	6.7	U
75-25-2	Bromoform	6.7	U
98-82-8	Isopropylbenzene	6.7	U
79-34-5	1,1,2,2-Tetrachloroethane	6.7	U
541-73-1	1,3-Dichlorobenzene	6.7	U
106-46-7	1,4-Dichlorobenzene	6.7	U
95-50-1	1,2-Dichlorobenzene	6.7	U
96-12-8	1,2-Dibromo-3-chloropropane	6.7	U
120-82-1	1,2,4-Trichlorobenzene	6.7	U
87-61-6	1,2,3-Trichlorobenzene	6.7	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M97

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725019
Sample wt/vol: 4.65 (g/mL) g Lab File ID: SV49C019
Level: (TRACE or LOW/MED) LOW Date Received: 06/05/2015
% Moisture: not dec. 20. Date Analyzed: 06/13/2015
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

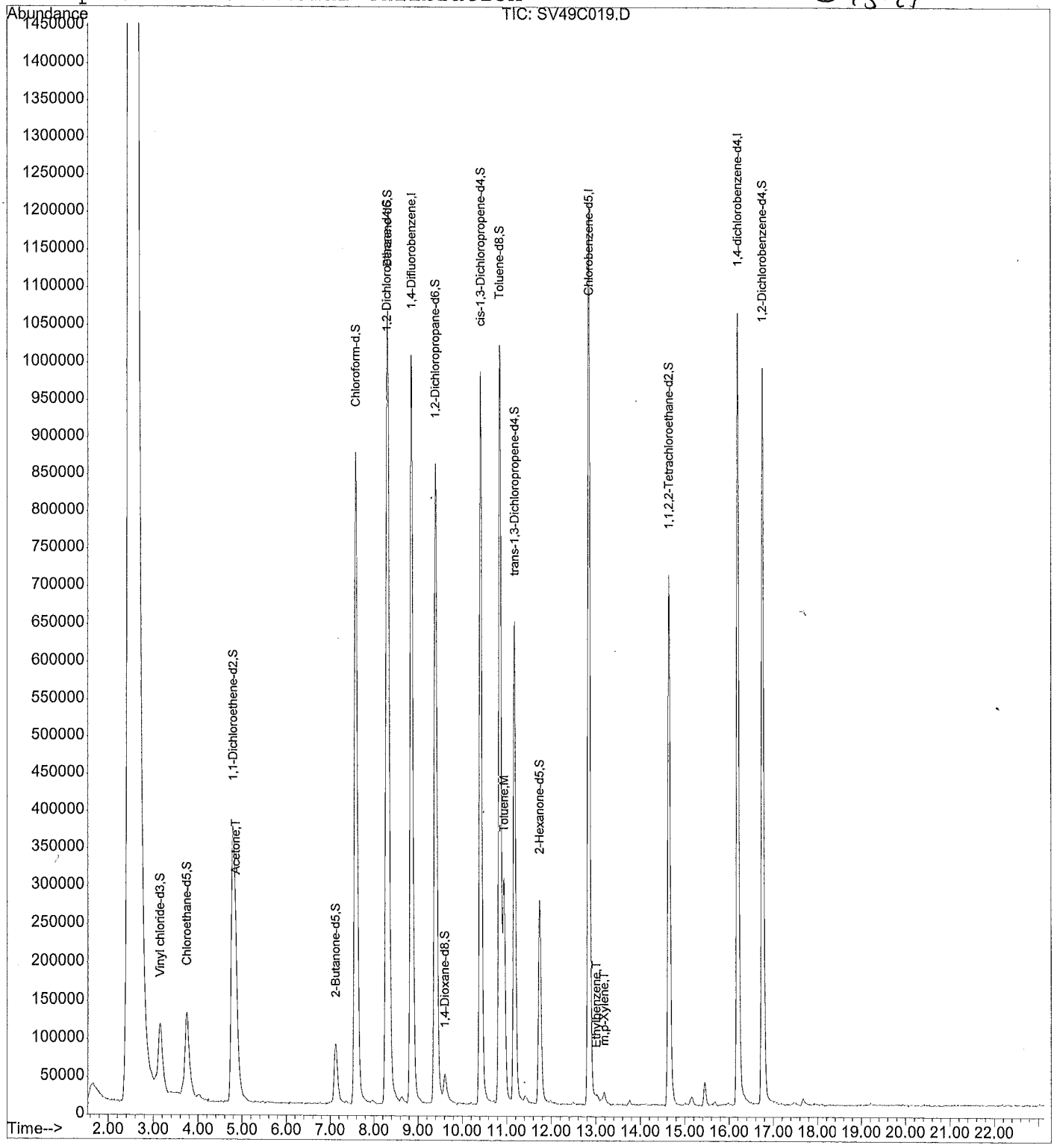
Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV49C019.D
Acq Time : 06/13/2015 12:28 Operator: CQC
Sample : 1515725019 F9M97 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:53 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6.13.15



6017

Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV49C019.D
Acq Time : 06/13/2015 12:28 Operator: CQC
Sample : 1515725019 F9M97 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 12:53 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.86	114	1596255	50.00 ug/Kg	120.92
30) Chlorobenzene-d5	12.84	117	1145342	50.00 ug/Kg	107.00
62) 1,4-dichlorobenzene-d4	16.20	152	503331	50.00 ug/Kg	82.73
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.16	65	388854	38.17 ug/Kg	76.35%
8) Chloroethane-d5	3.75	69	415272	42.85 ug/Kg	85.69%
11) 1,1-Dichloroethene-d2	4.80	63	1092397	32.53 ug/Kg	65.05%
22) 2-Butanone-d5	7.13	46	274395	99.24 ug/Kg	99.24%
25) Chloroform-d	7.59	84	1549543	47.10 ug/Kg	94.20%
27) 1,2-Dichloroethane-d4	8.29	65	769669	51.18 ug/Kg	102.36%
29) 1,4-Dioxane-d8	9.62	96	57428	1234.10 ug/Kg	123.41%
35) Benzene-d6	8.33	84	1513286	53.73 ug/Kg	107.46%
39) 1,2-Dichloropropane-d6	9.40	67	743623	53.60 ug/Kg	107.21%
42) cis-1,3-Dichloropropene-d4	10.42	79	1062524	45.72 ug/Kg	91.44%
44) trans-1,3-Dichloropropene-	11.18	79	660769	49.31 ug/Kg	98.62%
49) Toluene-d8	10.86	98	1305714	51.24 ug/Kg	102.49%
52) 2-Hexanone-d5	11.74	63	194677	109.61 ug/Kg	109.61%
61) 1,1,2,2-Tetrachloroethane-	14.64	84	726061	50.75 ug/Kg	101.50%
67) 1,2-Dichlorobenzene-d4	16.76	152	456653	47.33 ug/Kg	94.65%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	4.87	43	17734	5.96 ug/Kg#	74
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	0.00	84		Not Detected	
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

00179

Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV49C019.D
Acq Time : 06/13/2015 12:28 Operator: CQC
Sample : 1515725019 F9M97 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

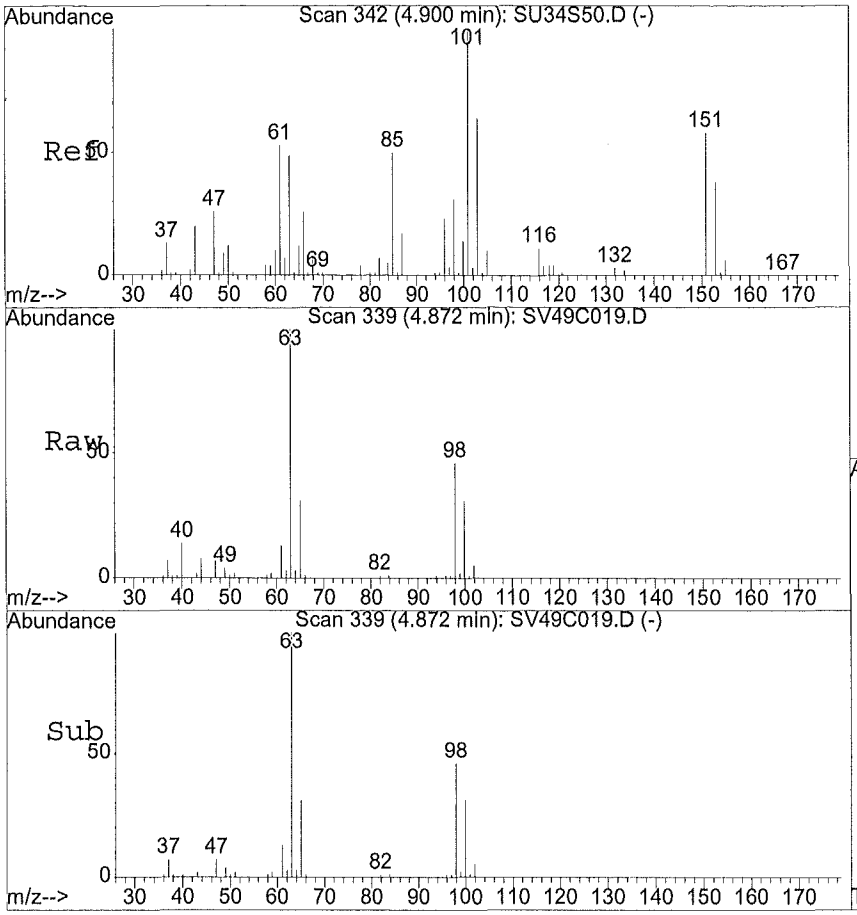
Quant Time: Jun 13 12:53 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	10.94	91	376124	13.64 ug/Kg	99
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	13.02	91	6754	0.20 ug/Kg#	89
56)	m,p-Xylene	13.19	106	6413	0.53 ug/Kg	83
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

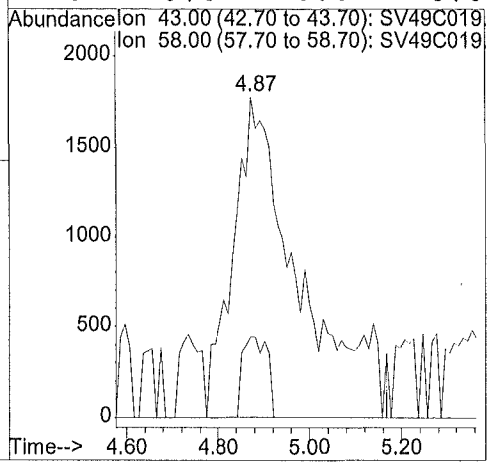
: 00179

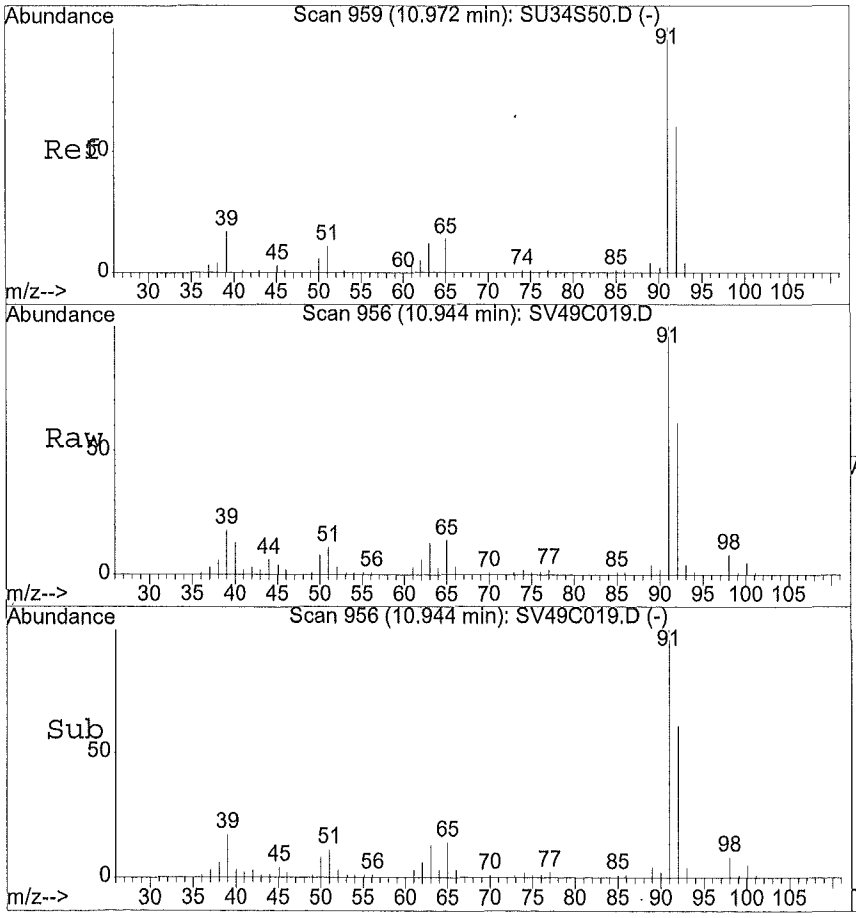


#13
Acetone
Concen: 5.96 ug/Kg
RT: 4.87 min Scan# 339
Delta R.T. -0.02 min
Lab File: SV49C019.D
Acq: 06/13/2015 12:28

Tgt Ion:43 Resp: 17734

Ion	Ratio	Lower	Upper
43	100		
58	9.2	10.9	32.6#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

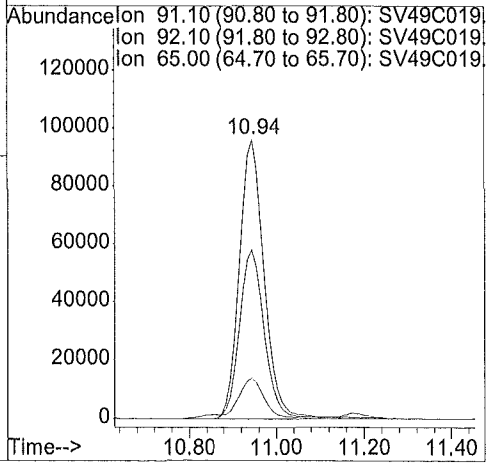


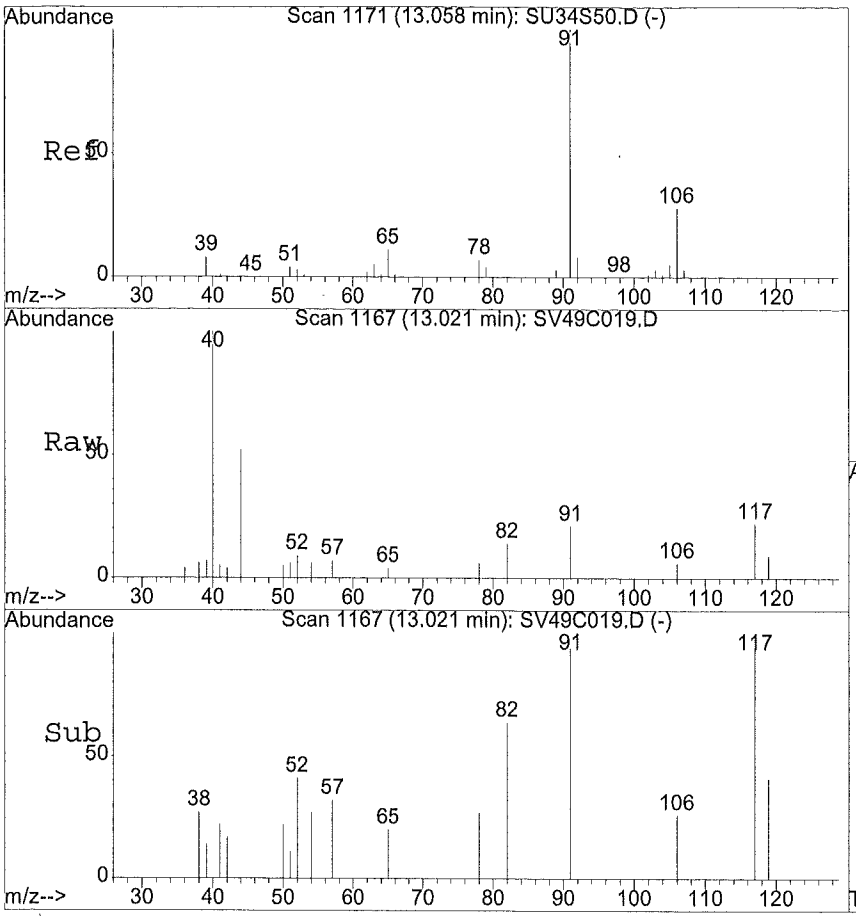


#48
Toluene
Concen: 13.64 ug/Kg
RT: 10.94 min Scan# 956
Delta R.T. -0.03 min
Lab File: SV49C019.D
Acq: 06/13/2015 12:28

Tgt Ion:91.1 Resp: 376124

Ion	Ratio	Lower	Upper
91	100		
92	60.3	48.2	72.2
65	16.3	11.7	17.5
0	0.0	0.0	0.0

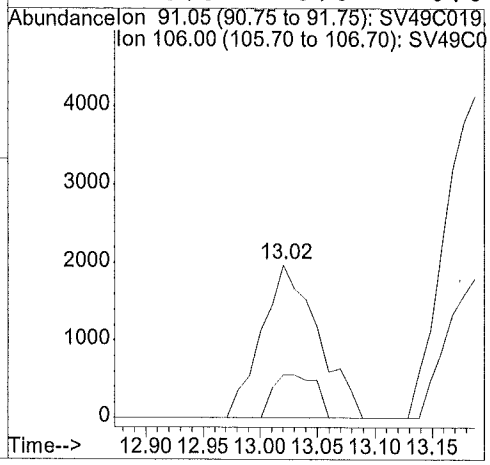


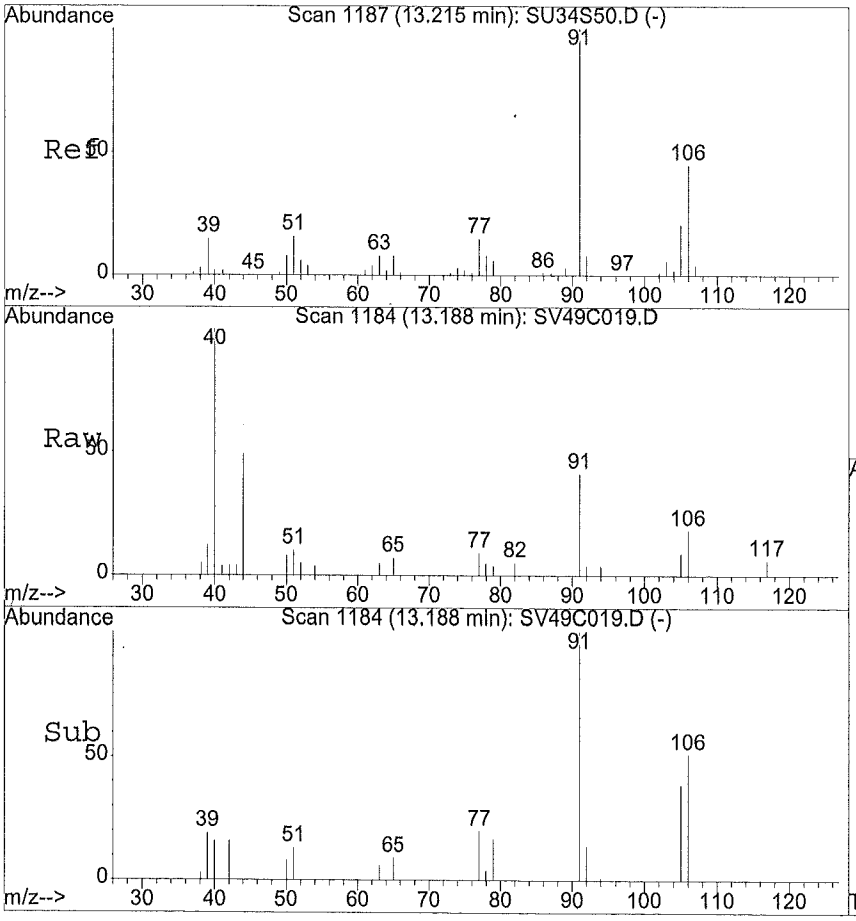


#55
Ethylbenzene
Concen: 0.20 ug/Kg
RT: 13.02 min Scan# 1167
Delta R.T. -0.04 min
Lab File: SV49C019.D
Acq: 06/13/2015 12:28

Tgt Ion:91.05 Resp: 6754

Ion	Ratio	Lower	Upper
91	100		
106	21.6	22.1	33.1#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

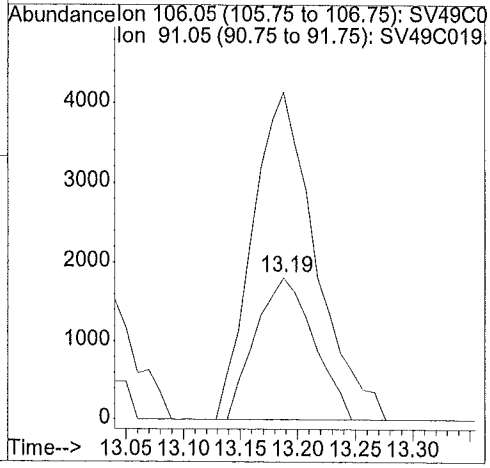




#56
m,p-Xylene
Concen: 0.53 ug/Kg
RT: 13.19 min Scan# 1184
Delta R.T. -0.03 min
Lab File: SV49C019.D
Acq: 06/13/2015 12:28

Tgt Ion:106.05 Resp: 6413

Ion	Ratio	Lower	Upper
106	100		
91	247.3	176.6	264.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M98

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725020

Sample wt/vol: 4.04 (g/mL) g Lab File ID: SV50C020

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 15. Date Analyzed: 06/13/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	7.3	U
74-87-3	Chloromethane	7.3	U
75-01-4	Vinyl chloride	7.3	U
74-83-9	Bromomethane	7.3	U
75-00-3	Chloroethane	7.3	U
75-69-4	Trichlorofluoromethane	7.3	U
75-35-4	1,1-Dichloroethene	7.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7.3	U
67-64-1	Acetone	15.	U
75-15-0	Carbon disulfide	7.3	U
79-20-9	Methyl acetate	7.3	U
75-09-2	Methylene chloride	7.3	U
156-60-5	trans-1,2-Dichloroethene	7.3	U
1634-04-4	Methyl tert-butyl ether	7.3	U
75-34-3	1,1-Dichloroethane	7.3	U
156-59-2	cis-1,2-Dichloroethene	7.3	U
78-93-3	2-Butanone	15.	U
74-97-5	Bromochloromethane	7.3	U
67-66-3	Chloroform	7.3	U
71-55-6	1,1,1-Trichloroethane	7.3	U
110-82-7	Cyclohexane	7.3	U
56-23-5	Carbon tetrachloride	7.3	U
71-43-2	Benzene	7.3	U
107-06-2	1,2-Dichloroethane	7.3	U
123-91-1	1,4-Dioxane	150	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M98

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725020

Sample wt/vol: 4.04 (g/mL) g Lab File ID: SV50C020

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 15. Date Analyzed: 06/13/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	7.3	U
108-87-2	Methylcyclohexane	7.3	U
78-87-5	1,2-Dichloropropane	7.3	U
75-27-4	Bromodichloromethane	7.3	U
10061-01-5	cis-1,3-Dichloropropene	7.3	U
108-10-1	4-Methyl-2-Pentanone	15.	U
108-88-3	Toluene	5.5	J
10061-02-6	trans-1,3-Dichloropropene	7.3	U
79-00-5	1,1,2-Trichloroethane	7.3	U
127-18-4	Tetrachloroethene	7.3	U
591-78-6	2-Hexanone	15.	U
124-48-1	Dibromochloromethane	7.3	U
106-93-4	1,2-Dibromoethane	7.3	U
108-90-7	Chlorobenzene	7.3	U
100-41-4	Ethylbenzene	7.3	U
95-47-6	o-Xylene	7.3	U
179601-23-1	m,p-Xylene	0.47	J
100-42-5	Styrene	7.3	U
75-25-2	Bromoform	7.3	U
98-82-8	Isopropylbenzene	7.3	U
79-34-5	1,1,2,2-Tetrachloroethane	7.3	U
541-73-1	1,3-Dichlorobenzene	7.3	U
106-46-7	1,4-Dichlorobenzene	7.3	U
95-50-1	1,2-Dichlorobenzene	7.3	U
96-12-8	1,2-Dibromo-3-chloropropane	7.3	U
120-82-1	1,2,4-Trichlorobenzene	7.3	U
87-61-6	1,2,3-Trichlorobenzene	7.3	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9M98

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725020

Sample wt/vol: 4.04 (g/mL) g Lab File ID: SV50C020

Level: (TRACE or LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 15. Date Analyzed: 06/13/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

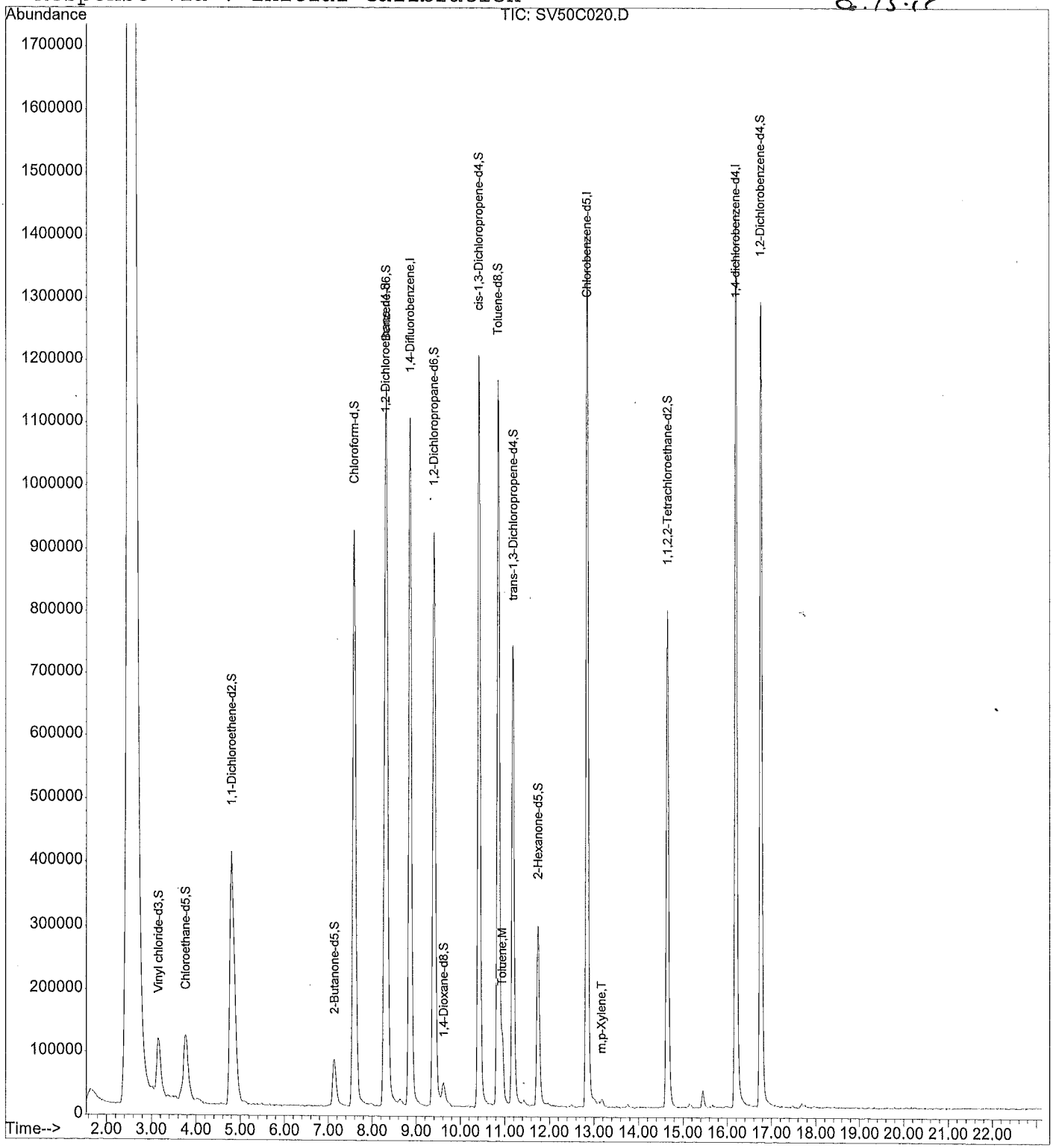
Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV50C020.D
Acq Time : 06/13/2015 12:59 Operator: CQC
Sample : 1515725020 F9M98 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 13:39 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

8.13.15



8815

Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV50C020.D
Acq Time : 06/13/2015 12:59 Operator: CQC
Sample : 1515725020 F9M98 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 13:39 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.86	114	1747985	50.00 ug/Kg	132.41
30) Chlorobenzene-d5	12.85	117	1352417	50.00 ug/Kg	126.34
62) 1,4-dichlorobenzene-d4	16.19	152	674935	50.00 ug/Kg	110.94
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.14	65	401388	35.98 ug/Kg	71.97%
8) Chloroethane-d5	3.75	69	422700	39.83 ug/Kg	79.65%
11) 1,1-Dichloroethene-d2	4.80	63	1145939	31.16 ug/Kg	62.32%
22) 2-Butanone-d5	7.13	46	265777	87.78 ug/Kg	87.78%
25) Chloroform-d	7.59	84	1650447	45.81 ug/Kg	91.63%
27) 1,2-Dichloroethane-d4	8.29	65	805023	48.89 ug/Kg	97.77%
29) 1,4-Dioxane-d8	9.62	96	57357	1125.58 ug/Kg	112.56%
35) Benzene-d6	8.32	84	1626971	48.92 ug/Kg	97.84%
39) 1,2-Dichloropropane-d6	9.40	67	797882	48.71 ug/Kg	97.42%
42) cis-1,3-Dichloropropene-d4	10.42	79	1293581	47.14 ug/Kg	94.28%
44) trans-1,3-Dichloropropene-	11.18	79	768212	48.55 ug/Kg	97.10%
49) Toluene-d8	10.85	98	1467097	48.76 ug/Kg	97.52%
52) 2-Hexanone-d5	11.74	63	204308	97.42 ug/Kg	97.42%
61) 1,1,2,2-Tetrachloroethane-	14.65	84	817625	48.40 ug/Kg	96.80%
67) 1,2-Dichlorobenzene-d4	16.76	152	611109	47.23 ug/Kg	94.46%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	0.00	43		Not Detected	
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	0.00	84		Not Detected	
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

00196

Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV50C020.D
Acq Time : 06/13/2015 12:59 Operator: CQC
Sample : 1515725020 F9M98 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

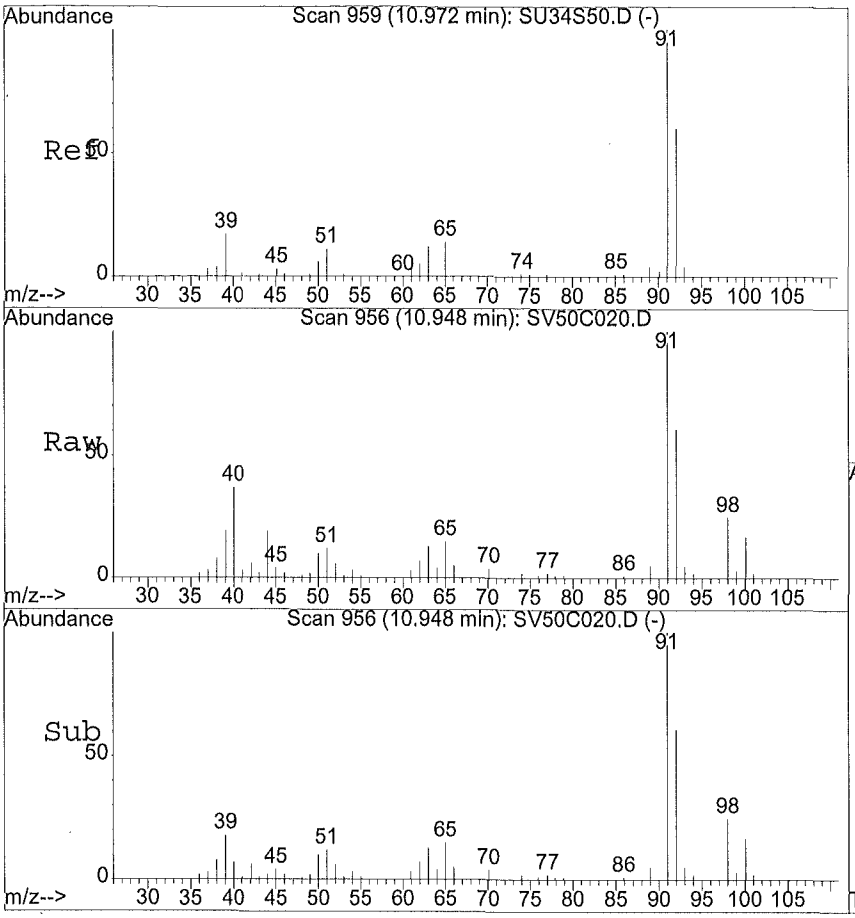
Quant Time: Jun 13 13:39 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	10.95	91	122277	3.75 ug/Kg#	96
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	13.18	106	4627	0.32 ug/Kg	99
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

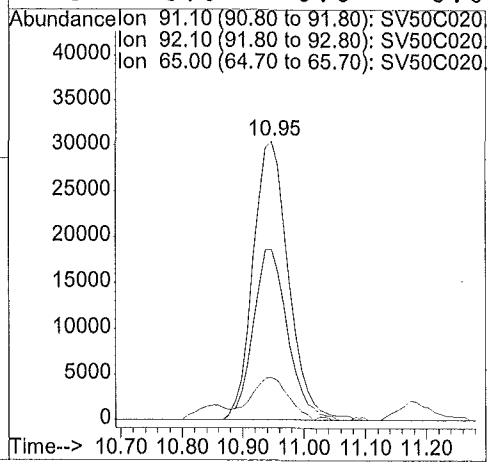
00197

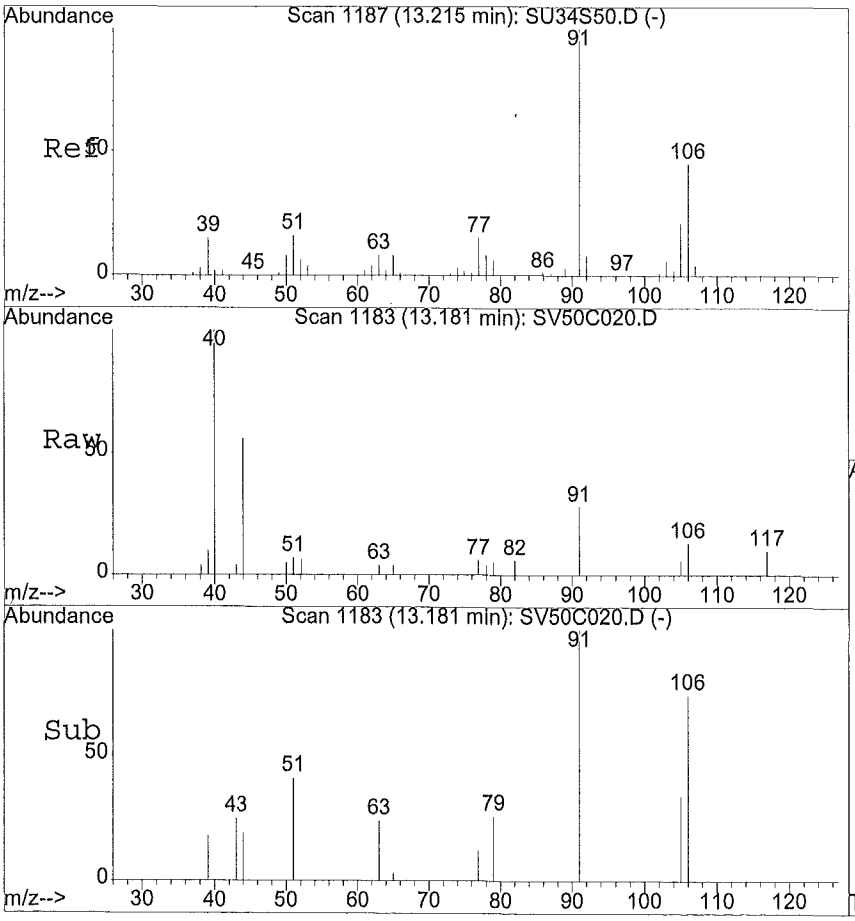


#48
Toluene
Concen: 3.75 ug/Kg
RT: 10.95 min Scan# 956
Delta R.T. -0.02 min
Lab File: SV50C020.D
Acq: 06/13/2015 12:59

Tgt Ion:91.1 Resp: 122277

Ion	Ratio	Lower	Upper
91	100		
92	59.6	48.2	72.2
65	21.3	11.7	17.5#
0	0.0	0.0	0.0

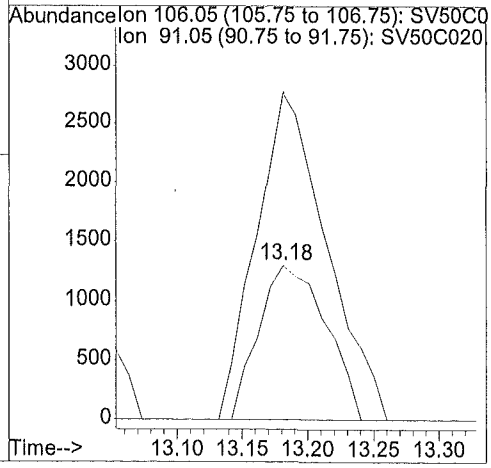




#56
m,p-Xylene
Concen: 0.32 ug/Kg
RT: 13.18 min Scan# 1183
Delta R.T. -0.03 min
Lab File: SV50C020.D
Acq: 06/13/2015 12:59

Tgt Ion:106.05 Resp: 4627

Ion	Ratio	Lower	Upper
106	100		
91	221.8	176.6	264.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M99

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725021

Sample wt/vol: 4.87 (g/mL) g Lab File ID: SV51C021

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 11. Date Analyzed: 06/13/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.8	U
74-87-3	Chloromethane	5.8	U
75-01-4	Vinyl chloride	5.8	U
74-83-9	Bromomethane	5.8	U
75-00-3	Chloroethane	5.8	U
75-69-4	Trichlorofluoromethane	5.8	U
75-35-4	1,1-Dichloroethene	5.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U
67-64-1	Acetone	5.5	J
75-15-0	Carbon disulfide	5.8	U
79-20-9	Methyl acetate	5.8	U
75-09-2	Methylene chloride	5.8	U
156-60-5	trans-1,2-Dichloroethene	5.8	U
1634-04-4	Methyl tert-butyl ether	5.8	U
75-34-3	1,1-Dichloroethane	5.8	U
156-59-2	cis-1,2-Dichloroethene	5.8	U
78-93-3	2-Butanone	12.	U
74-97-5	Bromochloromethane	5.8	U
67-66-3	Chloroform	5.8	U
71-55-6	1,1,1-Trichloroethane	5.8	U
110-82-7	Cyclohexane	5.8	U
56-23-5	Carbon tetrachloride	5.8	U
71-43-2	Benzene	5.8	U
107-06-2	1,2-Dichloroethane	5.8	U
123-91-1	1,4-Dioxane	120	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M99

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725021

Sample wt/vol: 4.87 (g/mL) g Lab File ID: SV51C021

Level: (TRACE/LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 11. Date Analyzed: 06/13/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.8	U
108-87-2	Methylcyclohexane	5.8	U
78-87-5	1,2-Dichloropropane	5.8	U
75-27-4	Bromodichloromethane	5.8	U
10061-01-5	cis-1,3-Dichloropropene	5.8	U
108-10-1	4-Methyl-2-Pentanone	12.	U
108-88-3	Toluene	7.7	
10061-02-6	trans-1,3-Dichloropropene	5.8	U
79-00-5	1,1,2-Trichloroethane	5.8	U
127-18-4	Tetrachloroethene	5.8	U
591-78-6	2-Hexanone	12.	U
124-48-1	Dibromochloromethane	5.8	U
106-93-4	1,2-Dibromoethane	5.8	U
108-90-7	Chlorobenzene	5.8	U
100-41-4	Ethylbenzene	5.8	U
95-47-6	o-Xylene	5.8	U
179601-23-1	m,p-Xylene	0.46	J
100-42-5	Styrene	5.8	U
75-25-2	Bromoform	5.8	U
98-82-8	Isopropylbenzene	5.8	U
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U
541-73-1	1,3-Dichlorobenzene	5.8	U
106-46-7	1,4-Dichlorobenzene	5.8	U
95-50-1	1,2-Dichlorobenzene	5.8	U
96-12-8	1,2-Dibromo-3-chloropropane	5.8	U
120-82-1	1,2,4-Trichlorobenzene	5.8	U
87-61-6	1,2,3-Trichlorobenzene	5.8	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9M99

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725021

Sample wt/vol: 4.87 (g/mL) g Lab File ID: SV51C021

Level: (TRACE or LOW/MED) LOW Date Received: 06/05/2015

% Moisture: not dec. 11. Date Analyzed: 06/13/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV51C021.D
Acq Time : 06/13/2015 13:30
Sample : 1515725021 F9M99
Misc : 1515725

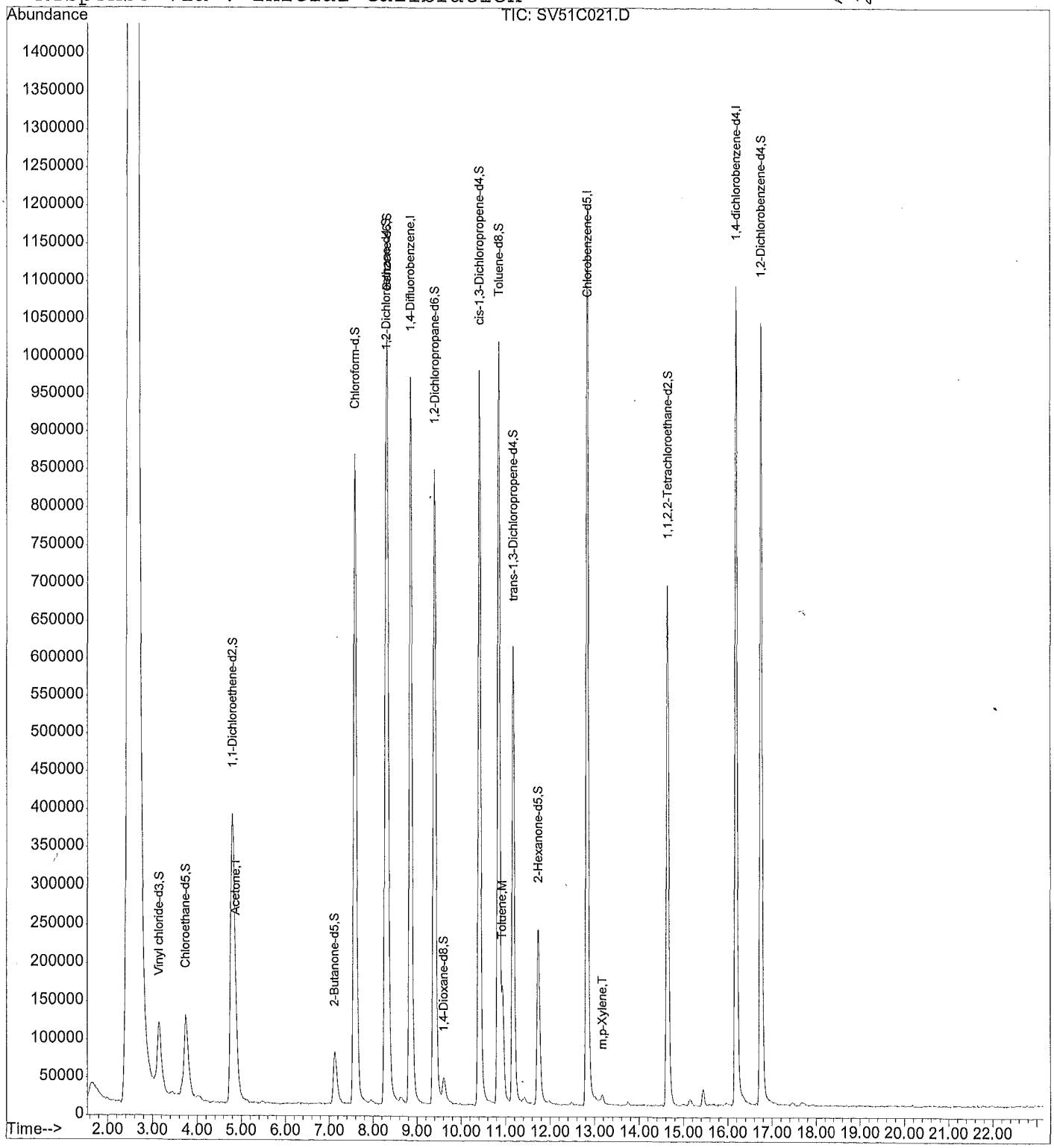
Operator: CQC
Inst : 5972-S
Multiplr: 1.00

Quant Time: Jun 13 14:15 2015

Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6-13-15



: 00192

Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV51C021.D
Acq Time : 06/13/2015 13:30 Operator: CQC
Sample : 1515725021 F9M99 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 13 14:15 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.86	114	1538443	50.00 ug/Kg	116.54
30) Chlorobenzene-d5	12.83	117	1133907	50.00 ug/Kg	105.93
62) 1,4-dichlorobenzene-d4	16.19	152	513118	50.00 ug/Kg	84.34
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.16	65	391071	39.84 ug/Kg	79.67%
8) Chloroethane-d5	3.75	69	408934	43.78 ug/Kg	87.56%
11) 1,1-Dichloroethene-d2	4.80	63	1073619	33.17 ug/Kg	66.34%
22) 2-Butanone-d5	7.13	46	223793	83.98 ug/Kg	83.98%
25) Chloroform-d	7.59	84	1515212	47.79 ug/Kg	95.57%
27) 1,2-Dichloroethane-d4	8.29	65	729139	50.31 ug/Kg	100.62%
29) 1,4-Dioxane-d8	9.61	96	52933	1180.25 ug/Kg	118.02%
35) Benzene-d6	8.32	84	1470700	52.74 ug/Kg	105.49%
39) 1,2-Dichloropropane-d6	9.40	67	726359	52.89 ug/Kg	105.78%
42) cis-1,3-Dichloropropene-d4	10.41	79	1043310	45.35 ug/Kg	90.69%
44) trans-1,3-Dichloropropene-	11.17	79	624641	47.08 ug/Kg	94.17%
49) Toluene-d8	10.85	98	1277090	50.63 ug/Kg	101.25%
52) 2-Hexanone-d5	11.73	63	160313	91.17 ug/Kg	91.17%
61) 1,1,2,2-Tetrachloroethane-	14.65	84	725842	51.24 ug/Kg	102.49%
67) 1,2-Dichlorobenzene-d4	16.75	152	484763	49.28 ug/Kg	98.56%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	4.88	43	13681	4.77 ug/Kg#	61
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	0.00	84		Not Detected	
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV51C021.D
Acq Time : 06/13/2015 13:30 Operator: CQC
Sample : 1515725021 F9M99 Inst : 5972-S
Misc : 1515725 Multiplr: 1.00

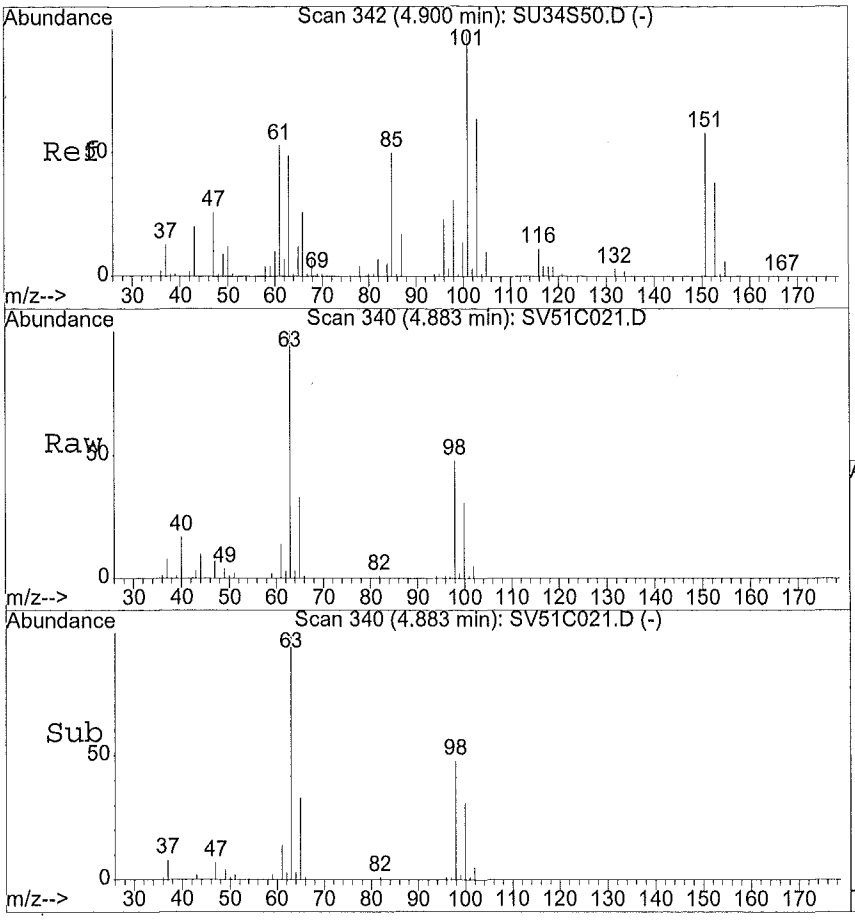
Quant Time: Jun 13 14:15 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	10.93	91	182125	6.67 ug/Kg#	98
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	13.19	106	4800	0.40 ug/Kg	84
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

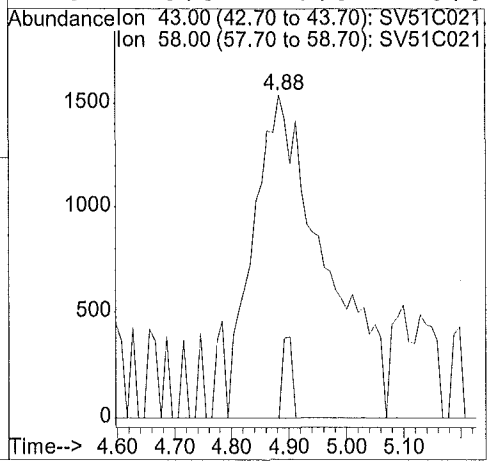
:001914

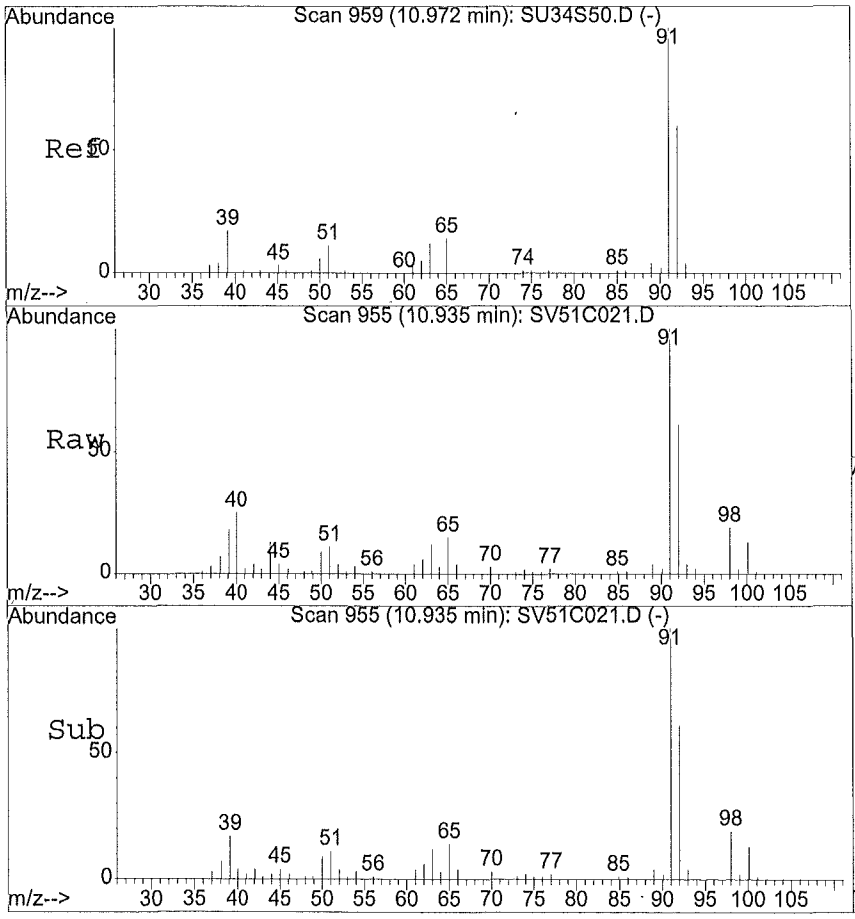


#13
Acetone
Concen: 4.77 ug/Kg
RT: 4.88 min Scan# 340
Delta R.T. -0.01 min
Lab File: SV51C021.D
Acq: 06/13/2015 13:30

Tgt Ion:43 Resp: 13681

Ion	Ratio	Lower	Upper
43	100		
58	3.3	10.9	32.6#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

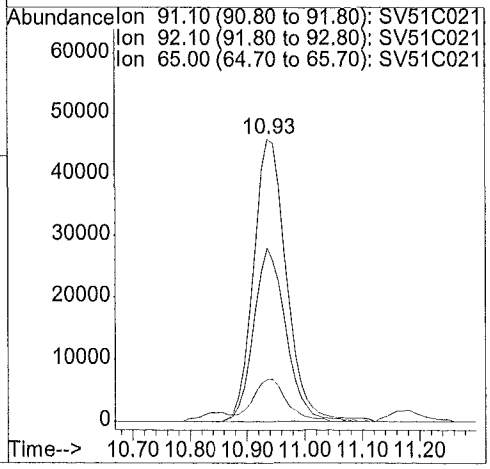


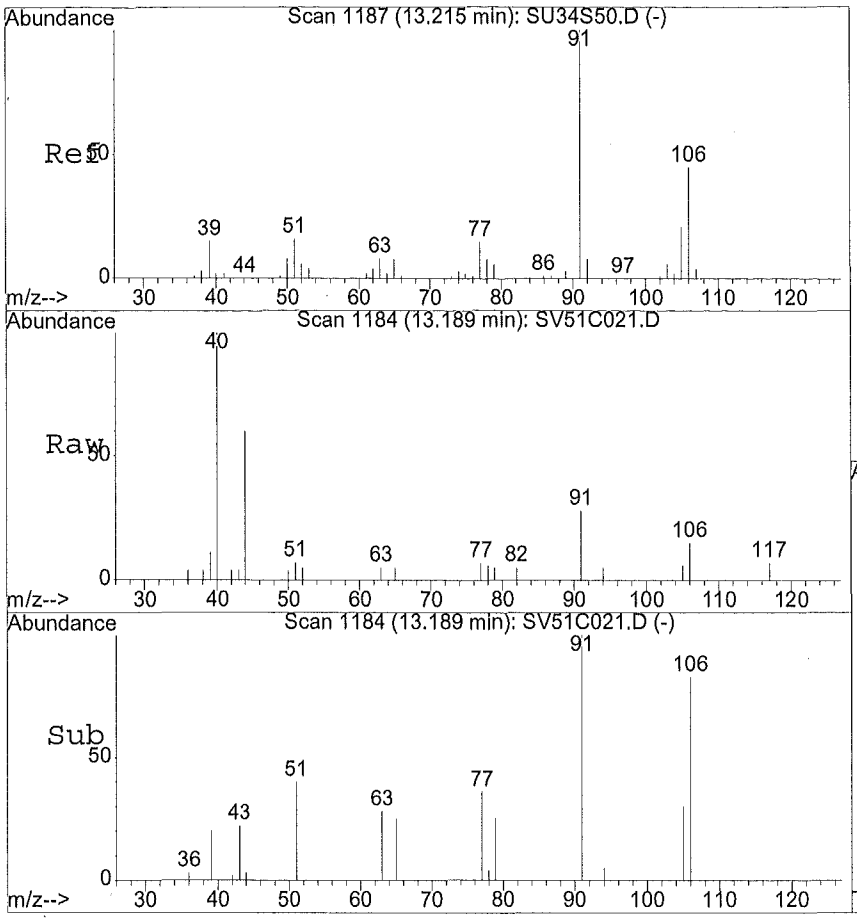


#48
Toluene
Concen: 6.67 ug/Kg
RT: 10.93 min Scan# 955
Delta R.T. -0.04 min
Lab File: SV51C021.D
Acq: 06/13/2015 13:30

Tgt Ion:91.1 Resp: 182125

Ion	Ratio	Lower	Upper
91	100		
92	60.1	48.2	72.2
65	18.5	11.7	17.5#
0	0.0	0.0	0.0

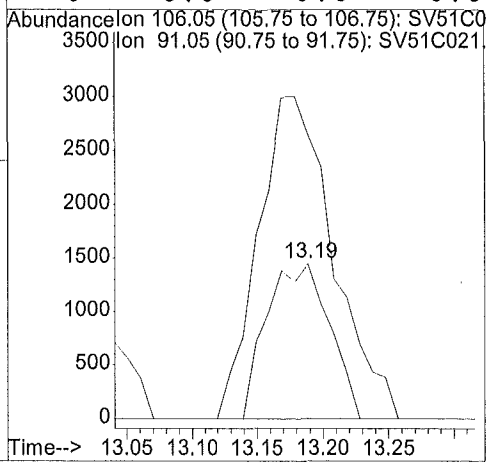




#56
m,p-Xylene
Concen: 0.40 ug/Kg
RT: 13.19 min Scan# 1184
Delta R.T. -0.03 min
Lab File: SV51C021.D
Acq: 06/13/2015 13:30

Tgt Ion:106.05 Resp: 4800

Ion	Ratio	Lower	Upper
106	100		
91	246.2	176.6	264.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0



6A - FORM VI VOA-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5972-S Calibration Date(s): 06/04/2015 06/04/2015

Heated Purge: (Y/N) Y Calibration Time(s): 20:18 22:20

Purge Volume: 10.0 (mL)

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

LAB FILE ID: RRF 5.0 = SU32S05 RRF 10 = SU33S10
RRF 50 = SU34S50 RRF 100 = SU35S100 RRF 200 = SU36S200

COMPOUND	RRF 5.0	RRF 10	RRF 50	RRF 100	RRF 200	$\overline{RRF}$	%RSD
Dichlorodifluoromethane	0.602	0.563	0.450	0.432	0.414	0.492	17.2
Chloromethane	0.297	0.332	0.245	0.224	0.216	0.263	19.0
Vinyl chloride	0.320	0.311	0.255	0.245	0.238	0.274	14.1
Bromomethane	0.447	0.511	0.378	0.378	0.380	0.419	14.2
Chloroethane	0.242	0.231	0.190	0.189	0.186	0.208	12.9
Trichlorofluoromethane	1.047	1.043	0.890	0.859	0.886	0.945	9.7
1,1-Dichloroethene	0.401	0.402	0.331	0.326	0.333	0.359	10.9
1,1,2-Trichloro-1,2,2-trifluoroethane	1.013	1.001	0.827	0.803	0.803	0.889	12.1
Acetone	0.135	0.121	0.071	0.070	0.068	0.093	34.8
Carbon disulfide	1.246	1.212	0.995	0.958	0.926	1.067	14.1
Methyl acetate	0.162	0.193	0.148	0.137	0.127	0.153	16.8
Methylene chloride	0.413	0.394	0.325	0.314	0.304	0.350	14.2
trans-1,2-Dichloroethene	0.427	0.434	0.367	0.361	0.362	0.390	9.5
Methyl tert-butyl ether	0.701	0.679	0.583	0.557	0.553	0.615	11.4
1,1-Dichloroethane	0.860	0.864	0.718	0.685	0.670	0.759	12.5
cis-1,2-Dichloroethene	0.443	0.444	0.373	0.362	0.367	0.398	10.5
2-Butanone	0.167	0.122	0.087	0.083	0.082	0.108	34.2
Bromochloromethane	0.286	0.291	0.247	0.238	0.236	0.259	10.4
Chloroform	1.078	1.097	0.902	0.867	0.843	0.957	12.6
1,1,1-Trichloroethane	1.187	1.240	1.020	0.962	0.922	1.066	13.2
Cyclohexane	0.659	0.671	0.549	0.521	0.503	0.581	13.6
Carbon tetrachloride	1.231	1.265	1.055	0.984	0.940	1.095	13.3
Benzene	1.212	1.291	1.105	1.096	1.064	1.154	8.2
1,2-Dichloroethane	0.549	0.584	0.516	0.508	0.488	0.529	7.2
1,4-Dioxane	0.0016	0.0016	0.0017	0.0016	0.0015	0.0016	3.9
Trichloroethene	0.649	0.697	0.573	0.541	0.533	0.599	11.9
Methylcyclohexane	0.624	0.636	0.516	0.492	0.493	0.552	13.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

6B - FORM VI VOA-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5972-S Calibration Date(s): 06/04/2015 06/04/2015

Heated Purge: (Y/N) Y Calibration Time(s): 20:18 22:20

Purge Volume: 10.0 (mL)

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

LAB FILE ID: RRF 5.0 = SU32S05 RRF 10 = SU33S10

RRF 50 = SU34S50 RRF 100 = SU35S100 RRF 200 = SU36S200

COMPOUND	RRF 5.0	RRF 10	RRF 50	RRF 100	RRF 200	$\overline{RRF}$	%RSD
1,2-Dichloropropane	0.445	0.539	0.445	0.426	0.431	0.457	10.1
Bromodichloromethane	1.303	1.422	1.178	1.103	1.066	1.214	12.1
cis-1,3-Dichloropropene	0.752	0.826	0.734	0.698	0.716	0.745	6.6
4-Methyl-2-Pentanone	0.318	0.292	0.245	0.224	0.209	0.258	17.9
Toluene	1.156	1.280	1.181	1.188	1.215	1.204	3.9
trans-1,3-Dichloropropene	0.591	0.663	0.595	0.583	0.593	0.605	5.4
1,1,2-Trichloroethane	0.365	0.395	0.343	0.325	0.321	0.350	8.7
Tetrachloroethene	0.467	0.523	0.461	0.450	0.470	0.474	6.0
2-Hexanone	0.335	0.264	0.178	0.171	0.162	0.222	33.8
Dibromochloromethane	0.970	1.048	0.914	0.872	0.850	0.931	8.6
1,2-Dibromoethane	0.652	0.679	0.611	0.577	0.552	0.614	8.5
Chlorobenzene	1.004	1.081	0.939	0.935	0.933	0.978	6.6
Ethylbenzene	1.403	1.599	1.398	1.410	1.432	1.448	5.9
o-Xylene	0.536	0.581	0.538	0.542	0.562	0.552	3.5
m,p-Xylene	0.526	0.562	0.512	0.522	0.530	0.530	3.6
Styrene	0.851	0.948	0.895	0.927	0.950	0.914	4.6
Bromoform	1.048	1.089	1.018	0.985	0.937	1.015	5.7
Isopropylbenzene	1.625	1.784	1.591	1.614	1.620	1.647	4.7
1,1,2,2-Tetrachloroethane	0.667	0.659	0.570	0.541	0.516	0.591	11.7
1,3-Dichlorobenzene	1.355	1.567	1.377	1.361	1.380	1.408	6.3
1,4-Dichlorobenzene	1.357	1.757	1.490	1.470	1.444	1.504	10.0
1,2-Dichlorobenzene	1.462	1.555	1.383	1.380	1.350	1.426	5.8
1,2-Dibromo-3-chloropropane	0.320	0.297	0.261	0.231	0.218	0.266	16.3
1,2,4-Trichlorobenzene	1.149	1.188	1.018	0.937	0.989	1.056	10.2
1,2,3-Trichlorobenzene	1.024	1.048	0.927	0.841	0.856	0.939	10.1

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5972-S Calibration Date(s): 06/04/2015 06/04/2015

Heated Purge: (Y/N) Y Calibration Time(s): 20:18 22:20

Purge Volume: 10.0 (mL)

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

LAB FILE ID: RRF 5.0 = SU32S05 RRF 10 = SU33S10

RRF 50 = SU34S50 RRF 100 = SU35S100 RRF 200 = SU36S200

COMPOUND	RRF 5.0	RRF 10	RRF 50	RRF 100	RRF 200	$\overline{RRF}$	%RSD
Vinyl chloride-d3	0.334	0.402	0.289	0.292	0.279	0.319	16.0
Chloroethane-d5	0.343	0.343	0.276	0.282	0.274	0.304	11.9
1,1-Dichloroethene-d2	1.125	1.207	0.966	0.986	0.975	1.052	10.3
2-Butanone-d5	0.096	0.095	0.082	0.081	0.078	0.087	9.6
Chloroform-d	1.058	1.184	0.982	0.976	0.952	1.031	9.2
1,2-Dichloroethane-d4	0.472	0.536	0.462	0.453	0.433	0.471	8.2
Benzene-d6	1.157	1.402	1.189	1.217	1.184	1.230	8.0
1,2-Dichloropropane-d6	0.584	0.711	0.596	0.573	0.565	0.606	9.9
Toluene-d8	0.972	1.203	1.088	1.139	1.160	1.112	8.0
trans-1,3-Dichloropropene-d4	0.523	0.641	0.587	0.581	0.593	0.585	7.1
2-Hexanone-d5	0.092	0.086	0.075	0.069	0.066	0.078	14.5
1,4-Dioxane-d8	0.0011	0.0015	0.0016	0.0016	0.0015	0.0015	12.8
1,1,2,2-Tetrachloroethane-d2	0.638	0.697	0.616	0.602	0.570	0.625	7.5
1,2-Dichlorobenzene-d4	0.932	1.048	0.924	0.948	0.940	0.959	5.3

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

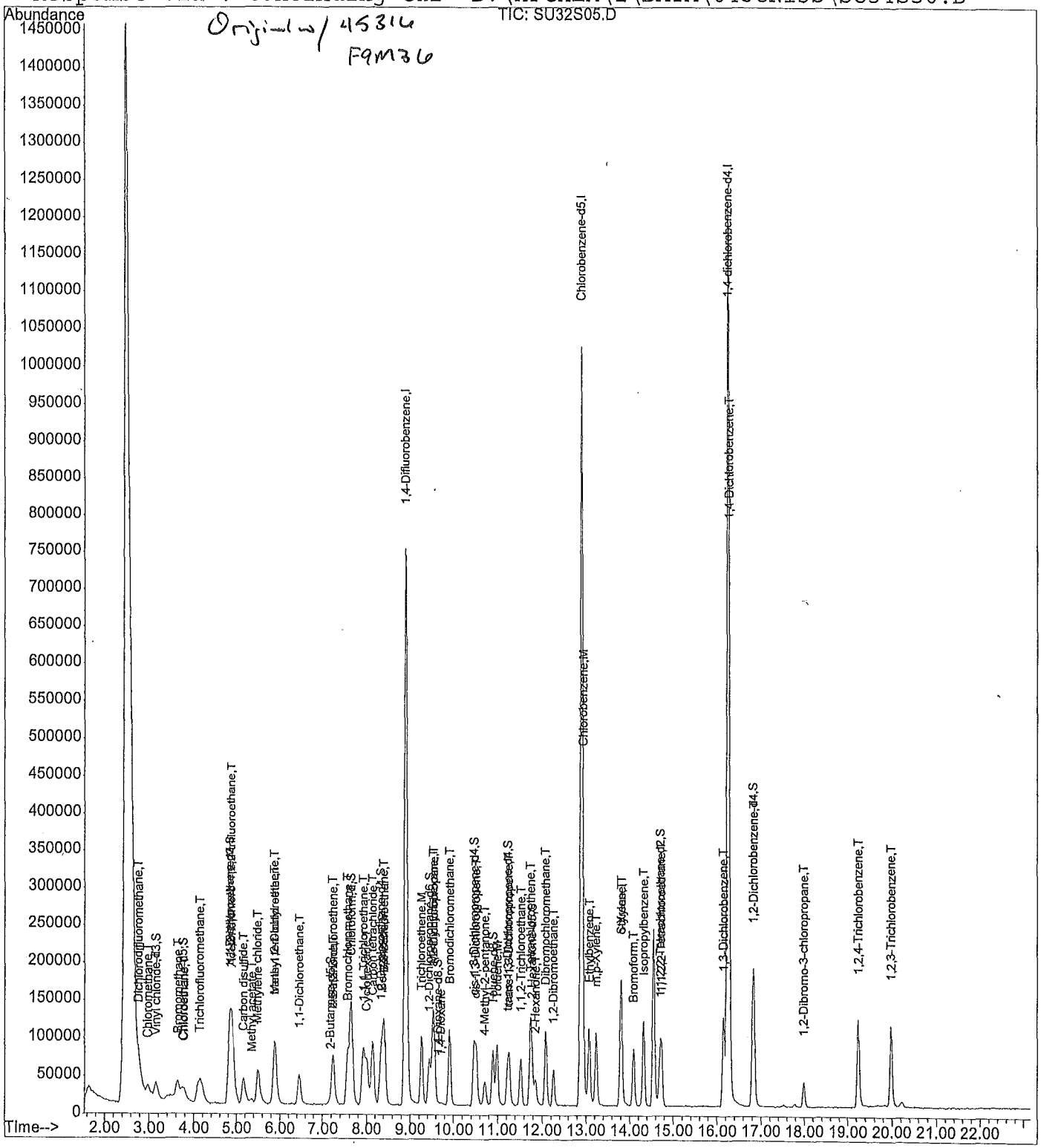
Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU32S05.D
Acq Time : 06/04/2015 20:18 Operator: CQC
Sample : VSTD005SS VSTD005SS 5.0 ug/Kg ICS Inst : 5972-S
Misc : 2.5 uL of 28196; 0.25 uL of 28197, 19; 2 Multiplr: 1.00

Quant Time: Jun 4 22:49 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:50:48 2015
Response via : Continuing Cal D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D

Original 45316
F9M36



Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU32S05.D
Acq Time : 06/04/2015 20:18 Operator: CQC
Sample : VSTD005SS VSTD005SS 5.0 ug/Kg ICS Inst : 5972-S
Misc : 2.5 uL of 28196; 0.25 uL of 28197, 19; 2 Multiplr: 1.00

Quant Time: Jun 4 22:49 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:49:33 2015
Response via : Continuing Cal D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	8.88	114	1149962	50.00	ug/Kg	87.11
30) Chlorobenzene-d5	12.88	117	930688	50.00	ug/Kg	86.95
62) 1,4-dichlorobenzene-d4	16.24	152	537842	50.00	ug/Kg	88.40
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	3.14	65	38398	5.79	ug/Kg	11.57%#
8) Chloroethane-d5	3.75	69	39413	6.21	ug/Kg	12.43%#
11) 1,1-Dichloroethene-d2	4.82	63	129419	5.82	ug/Kg	11.65%#
22) 2-Butanone-d5	7.16	46	22045	11.65	ug/Kg	11.65%#
25) Chloroform-d	7.62	84	121701	5.39	ug/Kg	10.77%#
27) 1,2-Dichloroethane-d4	8.32	65	54235	5.11	ug/Kg	10.22%#
29) 1,4-Dioxane-d8	9.65	96	2616	71.17	ug/Kg	7.12%#
35) Benzene-d6	8.35	84	107697	4.87	ug/Kg	9.74%#
39) 1,2-Dichloropropane-d6	9.43	67	54312	4.90	ug/Kg	9.79%#
42) cis-1,3-Dichloropropene-d4	10.45	79	85146	4.55	ug/Kg	9.10%
44) trans-1,3-Dichloropropene-	11.22	79	48708	4.46	ug/Kg	8.92%#
49) Toluene-d8	10.89	98	90432	4.46	ug/Kg	8.93%#
52) 2-Hexanone-d5	11.78	63	17136	12.30	ug/Kg	12.30%#
61) 1,1,2,2-Tetrachloroethane-	14.69	84	59342	5.17	ug/Kg	10.35%#
67) 1,2-Dichlorobenzene-d4	16.81	152	50128	5.05	ug/Kg	10.09%#
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.77	85	69267	6.69	ug/Kg#	96
3) Chloromethane	2.98	50	34186	6.07	ug/Kg	97
4) Vinyl chloride	3.15	62	36805	6.28	ug/Kg	98
6) Bromomethane	3.64	94	51436	5.92	ug/Kg	96
7) Chloroethane	3.78	64	27874	6.37	ug/Kg	92
9) Trichlorofluoromethane	4.13	101	120445	5.89	ug/Kg	99
10) 1,1-Dichloroethene	4.83	96	46143	6.06	ug/Kg	97
12) 1,1,2-Trichloro-1,2,2-trif	4.88	101	116507	6.13	ug/Kg	98
13) Acetone	4.89	43	31117	19.04	ug/Kg	98
14) Carbon disulfide	5.15	76	143283	6.26	ug/Kg	93
15) Methyl acetate	5.35	43	18659	5.49	ug/Kg#	91
16) Methylene chloride	5.49	84	47481	6.35	ug/Kg	97
17) trans-1,2-Dichloroethene	5.88	96	49098	5.82	ug/Kg	96
18) Methyl tert-butyl ether	5.86	73	80604	6.01	ug/Kg	93
19) 1,1-Dichloroethane	6.45	63	98915	5.99	ug/Kg	98
20) cis-1,2-Dichloroethene	7.23	96	50946	5.93	ug/Kg	98
21) 2-Butanone	7.24	43	38509	19.34	ug/Kg#	90
23) Bromochloromethane	7.56	128	32926	5.80	ug/Kg	98
24) Chloroform	7.64	83	123994	5.98	ug/Kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU32S05.D
Acq Time : 06/04/2015 20:18 Operator: CQC
Sample : VSTD005SS VSTD005SS 5.0 ug/Kg ICS Inst : 5972-S
Misc : 2.5 uL of 28196; 0.25 uL of 28197, 19; 2 Multiplr: 1.00

Quant Time: Jun 4 22:49 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:49:33 2015
Response via : Continuing Cal D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	1,2-Dichloroethane	8.41	62	63118	5.32	ug/Kg	95
28)	1,4-Dioxane	9.72	88	3737	97.88	ug/Kg	95
31)	1,1,1-Trichloroethane	7.91	97	110504	5.82	ug/Kg	98
32)	Cyclohexane	8.00	56	61291	6.00	ug/Kg#	77
33)	Carbon tetrachloride	8.13	117	114584	5.83	ug/Kg	99
34)	Benzene	8.40	78	112777	5.48	ug/Kg#	99
36)	Trichloroethene	9.26	95	60415	5.66	ug/Kg	99
37)	Methylcyclohexane	9.52	55	58082	6.04	ug/Kg	94
38)	1,2-Dichloropropane	9.55	63	41391	4.99	ug/Kg	83
40)	Bromodichloromethane	9.91	83	121234	5.53	ug/Kg	100
41)	cis-1,3-Dichloropropene	10.51	75	70021	5.13	ug/Kg	98
43)	trans-1,3-Dichloropropene	11.26	75	54967	4.96	ug/Kg	96
45)	1,1,2-Trichloroethane	11.52	97	33931	5.32	ug/Kg	99
46)	Dibromochloromethane	12.07	129	90306	5.31	ug/Kg	97
47)	4-Methyl-2-pentanone	10.70	43	59117	12.99	ug/Kg	96
48)	Toluene	10.98	91	107571	4.89	ug/Kg	99
50)	Tetrachloroethene	11.74	164	43485	5.07	ug/Kg	96
51)	2-Hexanone	11.85	43	62304	18.80	ug/Kg	93
53)	1,2-Dibromoethane	12.25	107	60645	5.33	ug/Kg	100
54)	Chlorobenzene	12.93	112	93482	5.35	ug/Kg	90
55)	Ethylbenzene	13.07	91	130567	5.02	ug/Kg	99
56)	m,p-Xylene	13.22	106	48929	5.14	ug/Kg	94
57)	o-Xylene	13.79	106	49906	4.98	ug/Kg	98
58)	Styrene	13.81	104	79224	4.76	ug/Kg	93
59)	Isopropylbenzene	14.32	105	151227	5.11	ug/Kg	99
60)	1,1,2,2-Tetrachloroethane	14.73	83	62105	5.85	ug/Kg	97
63)	Bromoform	14.09	173	56360	5.15	ug/Kg	97
64)	1,3-Dichlorobenzene	16.15	146	72898	4.92	ug/Kg#	89
65)	1,4-Dichlorobenzene	16.27	146	73012	4.56	ug/Kg#	50
66)	1,2-Dichlorobenzene	16.84	146	78613	5.28	ug/Kg	99
68)	1,2-Dibromo-3-chloropropan	17.99	75	17225	6.14	ug/Kg	97
69)	1,2,4-Trichlorobenzene	19.24	180	61790	5.64	ug/Kg	99
70)	1,2,3-Trichlorobenzene	19.98	180	55096	5.52	ug/Kg	98

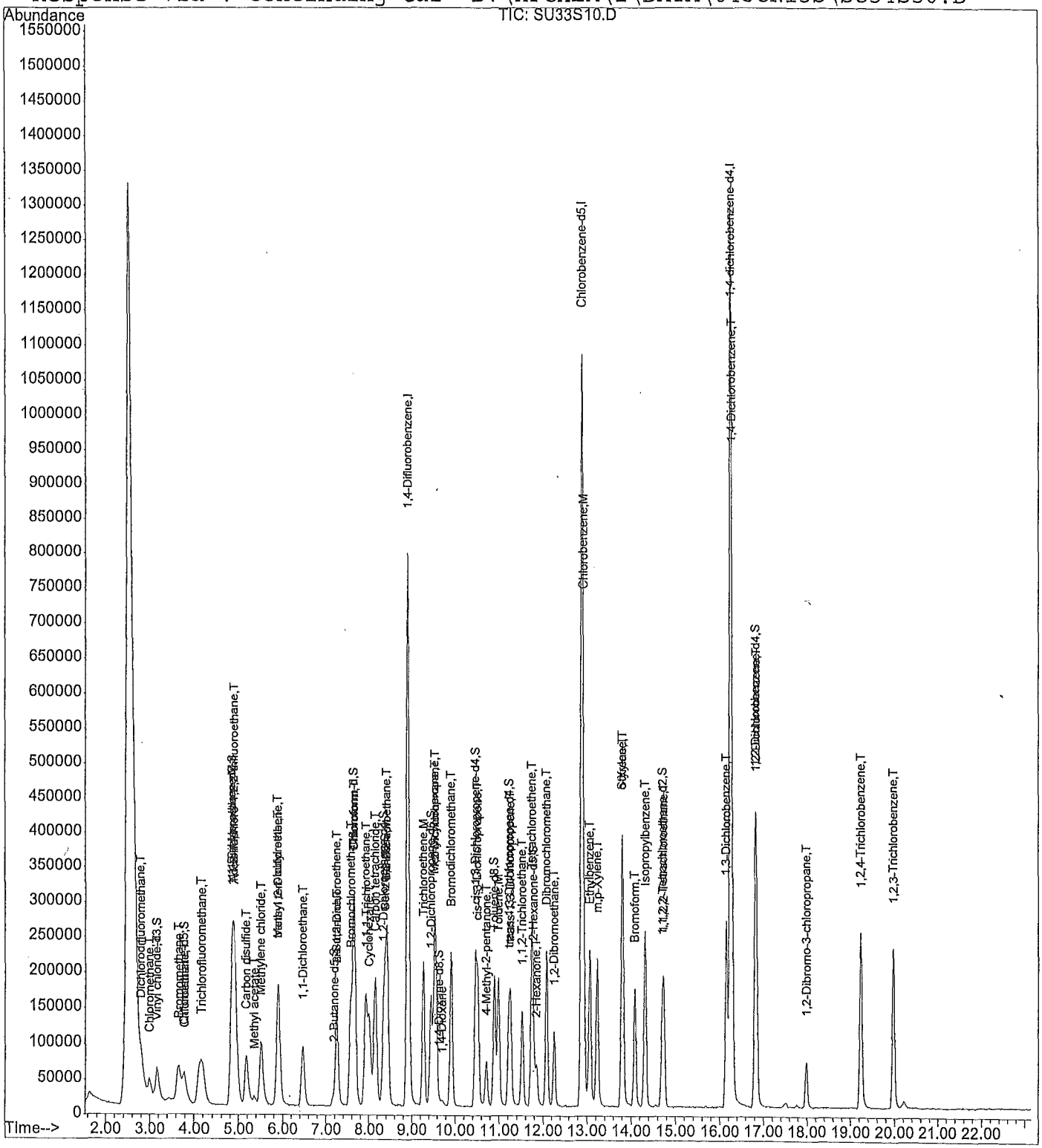
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU33S10.D
Acq Time : 06/04/2015 20:49 Operator: CQC
Sample : VSTD010SS VSTD010SS 10 ug/Kg ICS Inst : 5972-S
Misc : 2.5 uL of 28196; 0.5 uL of 28197, 19 Multiplr: 1.00

Quant Time: Jun 4 21:45 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:50:48 2015
Response via : Continuing Cal D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D



Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU33S10.D
Acq Time : 06/04/2015 20:49 Operator: CQC
Sample : VSTD010SS VSTD010SS 10 ug/Kg ICS Inst : 5972-S
Misc : 2.5 uL of 28196; 0.5 uL of 28197, 19 Multiplr: 1.00

Quant Time: Jun 4 21:45 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 21:44:40 2015
Response via : Continuing Cal D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	8.89	114	1198153	50.00	ug/Kg	90.76
30) Chlorobenzene-d5	12.88	117	950589	50.00	ug/Kg	88.81
62) 1,4-dichlorobenzene-d4	16.24	152	557983	50.00	ug/Kg	91.71
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	3.16	65	96322	13.93	ug/Kg	27.86%#
8) Chloroethane-d5	3.77	69	82252	12.44	ug/Kg	24.89%#
11) 1,1-Dichloroethene-d2	4.83	63	289298	12.49	ug/Kg	24.99%#
22) 2-Butanone-d5	7.17	46	45686	23.17	ug/Kg	23.17%#
25) Chloroform-d	7.63	84	283729	12.05	ug/Kg	24.11%#
27) 1,2-Dichloroethane-d4	8.32	65	128356	11.61	ug/Kg	23.21%#
29) 1,4-Dioxane-d8	9.64	96	7006	182.95	ug/Kg	18.29%#
35) Benzene-d6	8.36	84	266454	11.79	ug/Kg	23.58%#
39) 1,2-Dichloropropane-d6	9.45	67	135217	11.93	ug/Kg	23.87%#
42) cis-1,3-Dichloropropene-d4	10.46	79	218000	11.40	ug/Kg	22.81%
44) trans-1,3-Dichloropropene-	11.22	79	121773	10.91	ug/Kg	21.83%#
49) Toluene-d8	10.89	98	228761	11.06	ug/Kg	22.11%#
52) 2-Hexanone-d5	11.78	63	32754	23.01	ug/Kg	23.01%#
61) 1,1,2,2-Tetrachloroethane-	14.69	84	132428	11.31	ug/Kg	22.61%#
67) 1,2-Dichlorobenzene-d4	16.81	152	117003	11.35	ug/Kg	22.70%#
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.79	85	134851	12.49	ug/Kg#	99
3) Chloromethane	3.00	50	79451	13.53	ug/Kg	96
4) Vinyl chloride	3.17	62	74597	12.21	ug/Kg	99
6) Bromomethane	3.66	94	122492	13.53	ug/Kg	91
7) Chloroethane	3.80	64	55281	12.12	ug/Kg	96
9) Trichlorofluoromethane	4.17	101	249823	11.72	ug/Kg	99
10) 1,1-Dichloroethene	4.84	96	96267	12.14	ug/Kg	99
12) 1,1,2-Trichloro-1,2,2-trif	4.90	101	239858	12.10	ug/Kg	99
13) Acetone	4.90	43	58093	34.12	ug/Kg	96
14) Carbon disulfide	5.17	76	290482	12.19	ug/Kg	100
15) Methyl acetate	5.35	43	46240	13.05	ug/Kg	94
16) Methylene chloride	5.50	84	94369	12.12	ug/Kg	98
17) trans-1,2-Dichloroethene	5.89	96	104094	11.84	ug/Kg	100
18) Methyl tert-butyl ether	5.88	73	162793	11.66	ug/Kg	98
19) 1,1-Dichloroethane	6.46	63	206948	12.03	ug/Kg	99
20) cis-1,2-Dichloroethene	7.24	96	106493	11.90	ug/Kg	99
21) 2-Butanone	7.24	43	58612	28.26	ug/Kg	96
23) Bromochloromethane	7.57	128	69661	11.79	ug/Kg	96
24) Chloroform	7.65	83	262976	12.17	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU33S10.D
Acq Time : 06/04/2015 20:49 Operator: CQC
Sample : VSTD010SS VSTD010SS 10 ug/Kg ICS Inst : 5972-S
Misc : 2.5 uL of 28196; 0.5 uL of 28197, 19 Multiplr: 1.00

Quant Time: Jun 4 21:45 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 21:44:40 2015
Response via : Continuing Cal D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	1,2-Dichloroethane	8.42	62	140012	11.33	ug/Kg	96
28)	1,4-Dioxane	9.71	88	7583	190.62	ug/Kg	91
31)	1,1,1-Trichloroethane	7.92	97	235757	12.16	ug/Kg	99
32)	Cyclohexane	8.01	56	127588	12.23	ug/Kg	99
33)	Carbon tetrachloride	8.15	117	240444	11.98	ug/Kg	99
34)	Benzene	8.42	78	245469	11.68	ug/Kg#	98
36)	Trichloroethene	9.26	95	132498	12.16	ug/Kg	99
37)	Methylcyclohexane	9.52	55	120936	12.32	ug/Kg	97
38)	1,2-Dichloropropane	9.55	63	102392	12.10	ug/Kg	96
40)	Bromodichloromethane	9.91	83	270304	12.07	ug/Kg	99
41)	cis-1,3-Dichloropropene	10.51	75	157042	11.26	ug/Kg	96
43)	trans-1,3-Dichloropropene	11.26	75	126031	11.14	ug/Kg	98
45)	1,1,2-Trichloroethane	11.51	97	75005	11.51	ug/Kg	100
46)	Dibromochloromethane	12.07	129	199320	11.48	ug/Kg	98
47)	4-Methyl-2-pentanone	10.71	43	111215	23.93	ug/Kg	97
48)	Toluene	10.98	91	243416	10.84	ug/Kg	99
50)	Tetrachloroethene	11.74	164	99374	11.33	ug/Kg	99
51)	2-Hexanone	11.85	43	100234	29.62	ug/Kg	95
53)	1,2-Dibromoethane	12.25	107	129076	11.11	ug/Kg	98
54)	Chlorobenzene	12.92	112	205489	11.52	ug/Kg	94
55)	Ethylbenzene	13.06	91	303932	11.43	ug/Kg	100
56)	m,p-Xylene	13.22	106	106939	11.00	ug/Kg	96
57)	o-Xylene	13.80	106	110374	10.78	ug/Kg	95
58)	Styrene	13.81	104	180201	10.60	ug/Kg	96
59)	Isopropylbenzene	14.32	105	339169	11.22	ug/Kg	99
60)	1,1,2,2-Tetrachloroethane	14.73	83	125294	11.55	ug/Kg	99
63)	Bromoform	14.08	173	121530	10.70	ug/Kg	100
64)	1,3-Dichlorobenzene	16.15	146	174865	11.38	ug/Kg	99
65)	1,4-Dichlorobenzene	16.28	146	196100	11.80	ug/Kg#	79
66)	1,2-Dichlorobenzene	16.84	146	173534	11.24	ug/Kg	99
68)	1,2-Dibromo-3-chloropropan	17.99	75	33176	11.40	ug/Kg	98
69)	1,2,4-Trichlorobenzene	19.24	180	132632	11.68	ug/Kg	99
70)	1,2,3-Trichlorobenzene	19.98	180	116973	11.30	ug/Kg	99

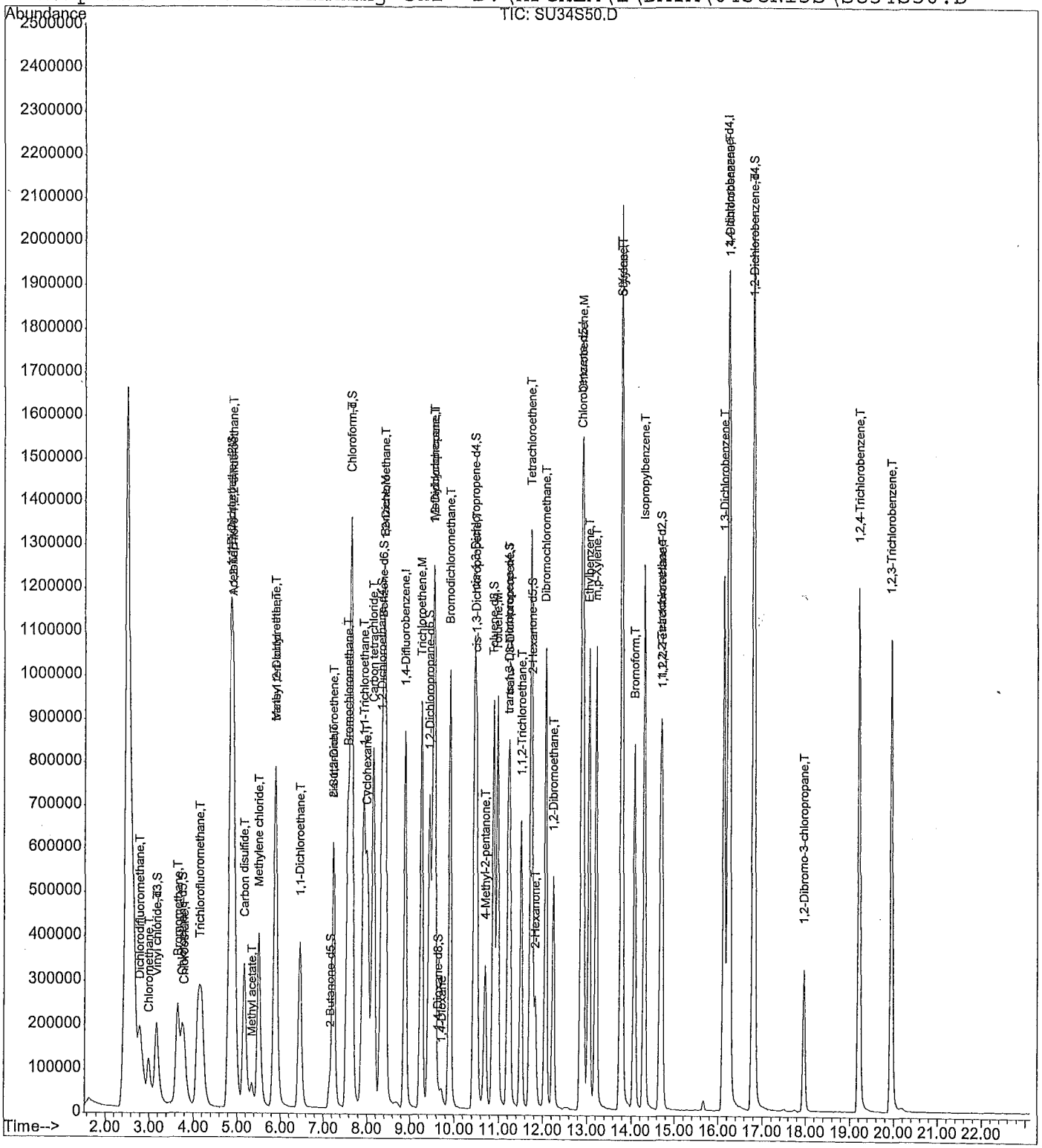
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D
Acq Time : 06/04/2015 21:19 Operator: CQC
Sample : VSTD050SS VSTD050SS 50 ug/Kg ICS Inst : 5972-S
Misc : 2.5 uL of 28196; 2.5 uL of 28197, 19 Multiplr: 1.00

Quant Time: Jun 4 21:44 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:50:48 2015
Response via : Continuing Cal D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D



Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D
Acq Time : 06/04/2015 21:19 Operator: CQC
Sample : VSTD050SS VSTD050SS 50 ug/Kg ICS Inst : 5972-S
Misc : 2.5 uL of 28196; 2.5 uL of 28197, 19 Multiplr: 1.00

Quant Time: Jun 4 21:44 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 21:44:40 2015
Response via : Continuing Cal D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	8.90	114	1320099	50.00	ug/Kg	100.00
30) Chlorobenzene-d5	12.87	117	1070418	50.00	ug/Kg	100.00
62) 1,4-dichlorobenzene-d4	16.23	152	608403	50.00	ug/Kg	100.00
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	3.17	65	380864	50.00	ug/Kg	100.00%
8) Chloroethane-d5	3.76	69	364096	50.00	ug/Kg	100.00%
11) 1,1-Dichloroethene-d2	4.83	63	1275616	50.00	ug/Kg	100.00%
22) 2-Butanone-d5	7.15	46	217200	100.00	ug/Kg	100.00%
25) Chloroform-d	7.63	84	1296715	50.00	ug/Kg	100.00%
27) 1,2-Dichloroethane-d4	8.32	65	609262	50.00	ug/Kg	100.00%
29) 1,4-Dioxane-d8	9.64	96	42193	1000.00	ug/Kg	100.00%
35) Benzene-d6	8.36	84	1272193	50.00	ug/Kg	100.00%
39) 1,2-Dichloropropane-d6	9.44	67	637956	50.00	ug/Kg	100.00%
42) cis-1,3-Dichloropropene-d4	10.45	79	1076340	50.00	ug/Kg	100.00%
44) trans-1,3-Dichloropropene-	11.21	79	628161	50.00	ug/Kg	100.00%
49) Toluene-d8	10.88	98	1164832	50.00	ug/Kg	100.00%
52) 2-Hexanone-d5	11.77	63	160271	100.00	ug/Kg	100.00%
61) 1,1,2,2-Tetrachloroethane-	14.68	84	659528	50.00	ug/Kg	100.00%
67) 1,2-Dichlorobenzene-d4	16.80	152	561883	50.00	ug/Kg	100.00%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.79	85	594619	50.00	ug/Kg#	100
3) Chloromethane	3.00	50	323419	50.00	ug/Kg	100
4) Vinyl chloride	3.18	62	336581	50.00	ug/Kg	100
6) Bromomethane	3.65	94	498846	50.00	ug/Kg	100
7) Chloroethane	3.80	64	251253	50.00	ug/Kg	100
9) Trichlorofluoromethane	4.13	101	1174384	50.00	ug/Kg	100
10) 1,1-Dichloroethene	4.84	96	436797	50.00	ug/Kg	100
12) 1,1,2-Trichloro-1,2,2-trif	4.90	101	1091637	50.00	ug/Kg	100
13) Acetone	4.90	43	187610	100.00	ug/Kg	100
14) Carbon disulfide	5.17	76	1313214	50.00	ug/Kg	100
15) Methyl acetate	5.35	43	195220	50.00	ug/Kg	100
16) Methylene chloride	5.50	84	428922	50.00	ug/Kg	100
17) trans-1,2-Dichloroethene	5.88	96	484374	50.00	ug/Kg	100
18) Methyl tert-butyl ether	5.87	73	769275	50.00	ug/Kg	100
19) 1,1-Dichloroethane	6.45	63	947993	50.00	ug/Kg	100
20) cis-1,2-Dichloroethene	7.23	96	492903	50.00	ug/Kg	100
21) 2-Butanone	7.23	43	228522	100.00	ug/Kg	100
23) Bromochloromethane	7.56	128	325598	50.00	ug/Kg	100
24) Chloroform	7.65	83	1190334	50.00	ug/Kg	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D
Acq Time : 06/04/2015 21:19 Operator: CQC
Sample : VSTD050SS VSTD050SS 50 ug/Kg ICS Inst : 5972-S
Misc : 2.5 uL of 28196; 2.5 uL of 28197, 19 Multiplr: 1.00

Quant Time: Jun 4 21:44 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 21:44:40 2015
Response via : Continuing Cal D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D
DataAcq Meth : SCLPSS

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26) 1,2-Dichloroethane	8.42	62	680858	50.00 ug/Kg	100
28) 1,4-Dioxane	9.72	88	43829	1000.00 ug/Kg	100
31) 1,1,1-Trichloroethane	7.92	97	1091876	50.00 ug/Kg	100
32) Cyclohexane	8.00	56	587157	50.00 ug/Kg	98
33) Carbon tetrachloride	8.15	117	1129559	50.00 ug/Kg	99
34) Benzene	8.41	78	1182902	50.00 ug/Kg#	100
36) Trichloroethene	9.25	95	613413	50.00 ug/Kg	100
37) Methylcyclohexane	9.53	55	552779	50.00 ug/Kg	100
38) 1,2-Dichloropropane	9.55	63	476622	50.00 ug/Kg	100
40) Bromodichloromethane	9.91	83	1260815	50.00 ug/Kg	100
41) cis-1,3-Dichloropropene	10.50	75	785441	50.00 ug/Kg	100
43) trans-1,3-Dichloropropene	11.25	75	636692	50.00 ug/Kg	100
45) 1,1,2-Trichloroethane	11.51	97	367020	50.00 ug/Kg	100
46) Dibromochloromethane	12.06	129	977977	50.00 ug/Kg	100
47) 4-Methyl-2-pentanone	10.70	43	523439	100.00 ug/Kg	100
48) Toluene	10.97	91	1264413	50.00 ug/Kg	100
50) Tetrachloroethene	11.73	164	493671	50.00 ug/Kg	100
51) 2-Hexanone	11.84	43	381091	100.00 ug/Kg	100
53) 1,2-Dibromoethane	12.24	107	654141	50.00 ug/Kg	100
54) Chlorobenzene	12.91	112	1004709	50.00 ug/Kg	100
55) Ethylbenzene	13.06	91	1496532	50.00 ug/Kg	100
56) m,p-Xylene	13.22	106	547577	50.00 ug/Kg	99
57) o-Xylene	13.79	106	576380	50.00 ug/Kg	100
58) Styrene	13.80	104	957582	50.00 ug/Kg	100
59) Isopropylbenzene	14.30	105	1702635	50.00 ug/Kg	100
60) 1,1,2,2-Tetrachloroethane	14.72	83	610581	50.00 ug/Kg	100
63) Bromoform	14.07	173	619263	50.00 ug/Kg	100
64) 1,3-Dichlorobenzene	16.14	146	837805	50.00 ug/Kg	99
65) 1,4-Dichlorobenzene	16.27	146	906252	50.00 ug/Kg	99
66) 1,2-Dichlorobenzene	16.82	146	841598	50.00 ug/Kg	100
68) 1,2-Dibromo-3-chloropropan	17.97	75	158672	50.00 ug/Kg	100
69) 1,2,4-Trichlorobenzene	19.22	180	619132	50.00 ug/Kg	100
70) 1,2,3-Trichlorobenzene	19.96	180	564102	50.00 ug/Kg	100

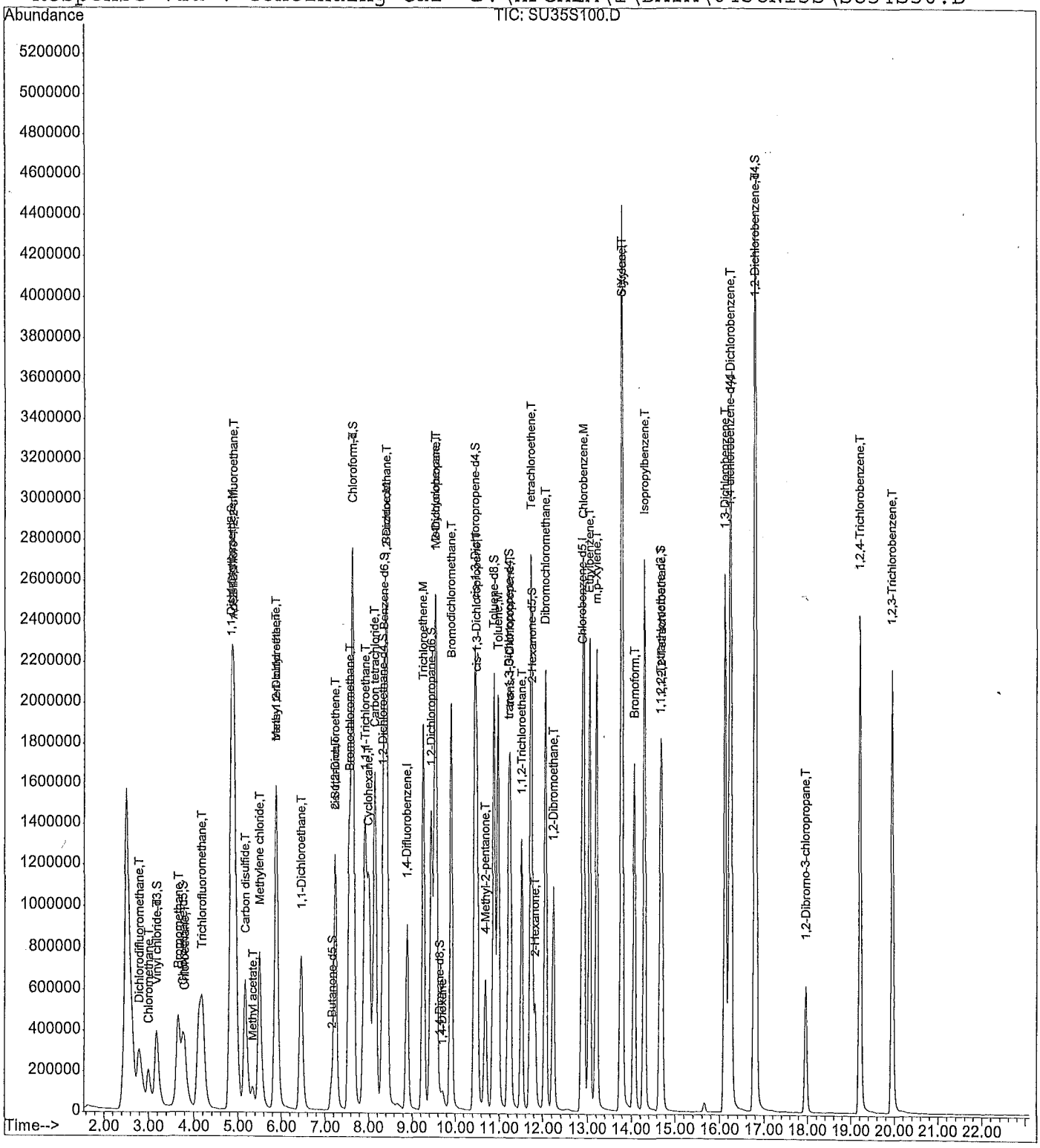
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU35S100.D
Acq Time : 06/04/2015 21:49 Operator: CQC
Sample : VSTD100SS VSTD100SS 100 ug/Kg ICS Inst : 5972-S
Misc : 2.5 uL of 28196; 5.0 uL of 28197, 19 Multiplr: 1.00

Quant Time: Jun 4 22:12 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:50:48 2015
Response via : Continuing Cal D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D



Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU35S100.D
Acq Time : 06/04/2015 21:49 Operator: CQC
Sample : VSTD100SS VSTD100SS 100 ug/Kg ICS Inst : 5972-S
Misc : 2.5 uL of 28196; 5.0 uL of 28197, 19 Multiplr: 1.00

Quant Time: Jun 4 22:12 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 21:44:40 2015
Response via : Continuing Cal D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.88	114	1377471	50.00 ug/Kg	104.35
30) Chlorobenzene-d5	12.87	117	1139640	50.00 ug/Kg	106.47
62) 1,4-dichlorobenzene-d4	16.22	152	660095	50.00 ug/Kg	108.50
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.17	65	804167	101.17 ug/Kg	202.35%#
8) Chloroethane-d5	3.76	69	777760	102.36 ug/Kg	204.72%#
11) 1,1-Dichloroethene-d2	4.82	63	2716772	102.05 ug/Kg	204.11%#
22) 2-Butanone-d5	7.15	46	446904	197.19 ug/Kg	197.19%#
25) Chloroform-d	7.62	84	2689142	99.37 ug/Kg	198.74%#
27) 1,2-Dichloroethane-d4	8.31	65	1248592	98.20 ug/Kg	196.40%#
29) 1,4-Dioxane-d8	9.64	96	87141	1979.28 ug/Kg	197.93%#
35) Benzene-d6	8.35	84	2773320	102.38 ug/Kg	204.75%#
39) 1,2-Dichloropropane-d6	9.43	67	1304952	96.06 ug/Kg	192.13%#
42) cis-1,3-Dichloropropene-d4	10.45	79	2272979	99.17 ug/Kg	198.35%
44) trans-1,3-Dichloropropene-	11.20	79	1324916	99.05 ug/Kg	198.11%#
49) Toluene-d8	10.88	98	2595646	104.65 ug/Kg	209.30%#
52) 2-Hexanone-d5	11.76	63	314717	184.44 ug/Kg	184.44%#
61) 1,1,2,2-Tetrachloroethane-	14.67	84	1372595	97.74 ug/Kg	195.48%#
67) 1,2-Dichlorobenzene-d4	16.79	152	1251785	102.67 ug/Kg	205.34%#
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.79	85	1189513	95.86 ug/Kg#	100
3) Chloromethane	3.00	50	615814	91.24 ug/Kg	98
4) Vinyl chloride	3.18	62	676180	96.26 ug/Kg	99
6) Bromomethane	3.65	94	1042541	100.14 ug/Kg	99
7) Chloroethane	3.80	64	519754	99.12 ug/Kg	99
9) Trichlorofluoromethane	4.17	101	2366731	96.57 ug/Kg	100
10) 1,1-Dichloroethene	4.84	96	898496	98.57 ug/Kg	98
12) 1,1,2-Trichloro-1,2,2-trif	4.90	101	2212151	97.10 ug/Kg	99
13) Acetone	4.90	43	387976	198.19 ug/Kg	98
14) Carbon disulfide	5.16	76	2639149	96.30 ug/Kg	99
15) Methyl acetate	5.35	43	377179	92.58 ug/Kg	100
16) Methylene chloride	5.50	84	864324	96.56 ug/Kg	98
17) trans-1,2-Dichloroethene	5.88	96	994739	98.41 ug/Kg	99
18) Methyl tert-butyl ether	5.87	73	1535158	95.62 ug/Kg	98
19) 1,1-Dichloroethane	6.45	63	1886415	95.35 ug/Kg	100
20) cis-1,2-Dichloroethene	7.23	96	996919	96.92 ug/Kg	100
21) 2-Butanone	7.23	43	457660	191.93 ug/Kg	98
23) Bromochloromethane	7.55	128	654455	96.31 ug/Kg	99
24) Chloroform	7.64	83	2387757	96.12 ug/Kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU35S100.D
Acq Time : 06/04/2015 21:49 Operator: CQC
Sample : VSTD100SS VSTD100SS 100 ug/Kg ICS Inst : 5972-S
Misc : 2.5 uL of 28196; 5.0 uL of 28197, 19 Multiplr: 1.00

Quant Time: Jun 4 22:12 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 21:44:40 2015
Response via : Continuing Cal D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D
DataAcq Meth : SCLPSS

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26) 1,2-Dichloroethane	8.42	62	1400153	98.54 ug/Kg	99
28) 1,4-Dioxane	9.71	88	86560	1892.69 ug/Kg	96
31) 1,1,1-Trichloroethane	7.91	97	2191971	94.28 ug/Kg	99
32) Cyclohexane	8.00	56	1187773	95.00 ug/Kg	98
33) Carbon tetrachloride	8.13	117	2242340	93.23 ug/Kg	99
34) Benzene	8.41	78	2498142	99.18 ug/Kg#	100
36) Trichloroethene	9.25	95	1234123	94.48 ug/Kg	99
37) Methylcyclohexane	9.52	55	1122119	95.33 ug/Kg	99
38) 1,2-Dichloropropane	9.55	63	970573	95.63 ug/Kg	98
40) Bromodichloromethane	9.90	83	2513664	93.63 ug/Kg	100
41) cis-1,3-Dichloropropene	10.50	75	1591944	95.19 ug/Kg	99
43) trans-1,3-Dichloropropene	11.24	75	1328924	98.02 ug/Kg	99
45) 1,1,2-Trichloroethane	11.51	97	740361	94.73 ug/Kg	99
46) Dibromochloromethane	12.06	129	1987806	95.46 ug/Kg	98
47) 4-Methyl-2-pentanone	10.69	43	1020246	183.07 ug/Kg	100
48) Toluene	10.97	91	2708486	100.60 ug/Kg	100
50) Tetrachloroethene	11.73	164	1024603	97.47 ug/Kg	100
51) 2-Hexanone	11.83	43	778081	191.77 ug/Kg	99
53) 1,2-Dibromoethane	12.24	107	1314792	94.39 ug/Kg	99
54) Chlorobenzene	12.91	112	2131644	99.64 ug/Kg	99
55) Ethylbenzene	13.04	91	3214500	100.87 ug/Kg	100
56) m,p-Xylene	13.21	106	1189124	101.99 ug/Kg	99
57) o-Xylene	13.77	106	1234926	100.62 ug/Kg	98
58) Styrene	13.79	104	2111897	103.57 ug/Kg	97
59) Isopropylbenzene	14.29	105	3678831	101.47 ug/Kg	99
60) 1,1,2,2-Tetrachloroethane	14.71	83	1231988	94.76 ug/Kg	99
63) Bromoform	14.07	173	1301031	96.82 ug/Kg	100
64) 1,3-Dichlorobenzene	16.13	146	1797226	98.86 ug/Kg	98
65) 1,4-Dichlorobenzene	16.26	146	1940823	98.69 ug/Kg	95
66) 1,2-Dichlorobenzene	16.81	146	1821835	99.76 ug/Kg	98
68) 1,2-Dibromo-3-chloropropan	17.96	75	305100	88.61 ug/Kg	98
69) 1,2,4-Trichlorobenzene	19.21	180	1236378	92.03 ug/Kg	99
70) 1,2,3-Trichlorobenzene	19.95	180	1110836	90.75 ug/Kg	99

(#) = qualifier out of range (m) = manual integration

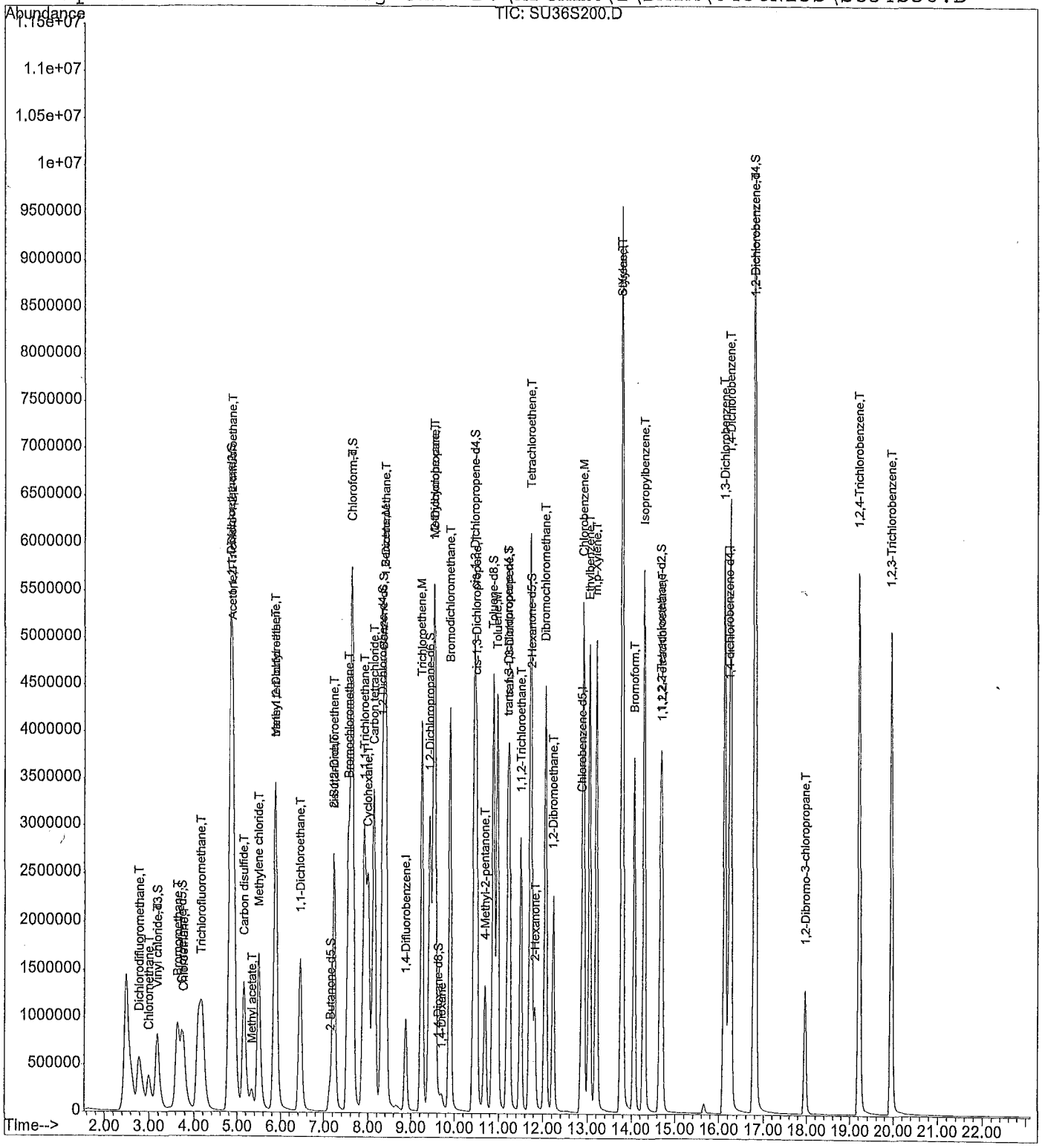
Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU36S200.D
Acq Time : 06/04/2015 22:20 Operator: CQC
Sample : VSTD200SS VSTD200SS 200 ug/Kg ICS Inst : 5972-S
Misc : 2.5 uL of 28196; 10 uL of 28197, 19 Multiplr: 1.00

Quant Time: Jun 4 22:43 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:50:48 2015
Response via : Continuing Cal D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D

6.6.4



Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU36S200.D
Acq Time : 06/04/2015 22:20 Operator: CQC
Sample : VSTD200SS VSTD200SS 200 ug/Kg ICS Inst : 5972-S
Misc : 2.5 uL of 28196; 10 uL of 28197, 19 Multiplr: 1.00

Quant Time: Jun 4 22:43 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 21:44:40 2015
Response via : Continuing Cal D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.88	114	1490772	50.00 ug/Kg	112.93
30) Chlorobenzene-d5	12.87	117	1253866	50.00 ug/Kg	117.14
62) 1,4-dichlorobenzene-d4	16.22	152	761190	50.00 ug/Kg	125.11
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.17	65	1663918	193.43 ug/Kg	386.86%#
8) Chloroethane-d5	3.74	69	1632959	198.58 ug/Kg	397.15%#
11) 1,1-Dichloroethene-d2	4.83	63	5813839	201.79 ug/Kg	403.59%#
22) 2-Butanone-d5	7.15	46	935997	381.60 ug/Kg	381.60%#
25) Chloroform-d	7.62	84	5675548	193.79 ug/Kg	387.58%#
27) 1,2-Dichloroethane-d4	8.32	65	2583206	187.72 ug/Kg	375.45%#
29) 1,4-Dioxane-d8	9.64	96	179984	3777.36 ug/Kg	377.74%#
35) Benzene-d6	8.35	84	5937889	199.23 ug/Kg	398.46%#
39) 1,2-Dichloropropane-d6	9.43	67	2832121	189.49 ug/Kg	378.99%#
42) cis-1,3-Dichloropropene-d4	10.45	79	5058004	200.59 ug/Kg	401.17%#
44) trans-1,3-Dichloropropene-	11.20	79	2974448	202.12 ug/Kg	404.24%#
49) Toluene-d8	10.88	98	5817324	213.17 ug/Kg	426.35%#
52) 2-Hexanone-d5	11.76	63	657853	350.41 ug/Kg	350.41%#
61) 1,1,2,2-Tetrachloroethane-	14.68	84	2860684	185.14 ug/Kg	370.29%#
67) 1,2-Dichlorobenzene-d4	16.79	152	2863053	203.63 ug/Kg	407.27%#
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.79	85	2466707	183.67 ug/Kg#	99
3) Chloromethane	3.01	50	1289628	176.55 ug/Kg	99
4) Vinyl chloride	3.18	62	1418579	186.61 ug/Kg	99
6) Bromomethane	3.64	94	2264096	200.95 ug/Kg	99
7) Chloroethane	3.78	64	1111186	195.81 ug/Kg	97
9) Trichlorofluoromethane	4.17	101	5284427	199.23 ug/Kg	99
10) 1,1-Dichloroethene	4.84	96	1986655	201.38 ug/Kg	96
12) 1,1,2-Trichloro-1,2,2-trif	4.89	101	4788867	194.23 ug/Kg	98
13) Acetone	4.89	43	811278	382.92 ug/Kg	96
14) Carbon disulfide	5.16	76	5520835	186.14 ug/Kg	98
15) Methyl acetate	5.35	43	756251	171.52 ug/Kg	98
16) Methylene chloride	5.50	84	1815412	187.40 ug/Kg	98
17) trans-1,2-Dichloroethene	5.88	96	2161097	197.54 ug/Kg	98
18) Methyl tert-butyl ether	5.87	73	3296792	189.75 ug/Kg	98
19) 1,1-Dichloroethane	6.45	63	3996181	186.64 ug/Kg	99
20) cis-1,2-Dichloroethene	7.23	96	2189216	196.65 ug/Kg	99
21) 2-Butanone	7.23	43	979028	379.37 ug/Kg	97
23) Bromochloromethane	7.55	128	1404807	191.03 ug/Kg	94
24) Chloroform	7.64	83	5028404	187.04 ug/Kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU36S200.D
Acq Time : 06/04/2015 22:20 Operator: CQC
Sample : VSTD200SS VSTD200SS 200 ug/Kg ICS Inst : 5972-S
Misc : 2.5 uL of 28196; 10 uL of 28197, 19 Multiplr: 1.00

Quant Time: Jun 4 22:43 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 21:44:40 2015
Response via : Continuing Cal D:\HPCHEM\1\DATA\04JUN15S\SU34S50.D
DataAcq Meth : SCLPSS

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26) 1,2-Dichloroethane	8.42	62	2908392	189.13 ug/Kg	98
28) 1,4-Dioxane	9.72	88	178377	3603.90 ug/Kg	97
31) 1,1,1-Trichloroethane	7.92	97	4625057	180.81 ug/Kg	99
32) Cyclohexane	7.99	56	2524854	183.55 ug/Kg	99
33) Carbon tetrachloride	8.13	117	4712973	178.10 ug/Kg	97
34) Benzene	8.41	78	5335295	192.52 ug/Kg#	98
36) Trichloroethene	9.24	95	2673803	186.06 ug/Kg	98
37) Methylcyclohexane	9.52	55	2471072	190.81 ug/Kg	98
38) 1,2-Dichloropropane	9.55	63	2163816	193.78 ug/Kg	95
40) Bromodichloromethane	9.90	83	5346183	180.99 ug/Kg	100
41) cis-1,3-Dichloropropene	10.50	75	3592321	195.22 ug/Kg	96
43) trans-1,3-Dichloropropene	11.24	75	2972849	199.30 ug/Kg	96
45) 1,1,2-Trichloroethane	11.51	97	1612409	187.52 ug/Kg	98
46) Dibromochloromethane	12.07	129	4262431	186.04 ug/Kg	96
47) 4-Methyl-2-pentanone	10.69	43	2099825	342.47 ug/Kg	99
48) Toluene	10.97	91	6094197	205.73 ug/Kg	99
50) Tetrachloroethene	11.73	164	2359190	203.98 ug/Kg	99
51) 2-Hexanone	11.83	43	1629821	365.10 ug/Kg	99
53) 1,2-Dibromoethane	12.24	107	2767368	180.58 ug/Kg	99
54) Chlorobenzene	12.91	112	4679477	198.81 ug/Kg	98
55) Ethylbenzene	13.05	91	7184031	204.91 ug/Kg	100
56) m,p-Xylene	13.21	106	2660685	207.41 ug/Kg	98
57) o-Xylene	13.78	106	2819150	208.78 ug/Kg	99
58) Styrene	13.79	104	4766477	212.47 ug/Kg	95
59) Isopropylbenzene	14.30	105	8122961	203.64 ug/Kg	98
60) 1,1,2,2-Tetrachloroethane	14.72	83	2588659	180.97 ug/Kg	99
63) Bromoform	14.07	173	2852315	184.07 ug/Kg	100
64) 1,3-Dichlorobenzene	16.13	146	4200502	200.37 ug/Kg	98
65) 1,4-Dichlorobenzene	16.26	146	4396053	193.86 ug/Kg	93
66) 1,2-Dichlorobenzene	16.82	146	4109859	195.16 ug/Kg	97
68) 1,2-Dibromo-3-chloropropan	17.97	75	664292	167.31 ug/Kg	98
69) 1,2,4-Trichlorobenzene	19.22	180	3010465	194.32 ug/Kg	100
70) 1,2,3-Trichlorobenzene	19.96	180	2605190	184.57 ug/Kg	98

(#) = qualifier out of range (m) = manual integration

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5972-S Calibration Date: 06/11/2015 Time: 16:56

Lab File ID: SV26S50 Init. Calib. Date(s): 06/04/2015 06/04/2015

EPA Sample No.(VSTD#####): VSTD050S1 Init. Calib. Time(s): 20:18 22:20

Heated Purge: (Y/N) Y GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.492	0.397	0.010	-19.3	40.0
Chloromethane	0.263	0.219	0.010	-16.6	40.0
Vinyl chloride	0.274	0.242	0.100	-11.8	25.0
Bromomethane	0.419	0.370	0.100	-11.7	25.0
Chloroethane	0.208	0.192	0.010	-7.8	40.0
Trichlorofluoromethane	0.945	0.875	0.010	-7.4	40.0
1,1-Dichloroethene	0.359	0.327	0.100	-8.8	25.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.889	0.802	0.010	-9.9	40.0
Acetone	0.093	0.081	0.010	-13.1	40.0
Carbon disulfide	1.067	0.952	0.010	-10.8	40.0
Methyl acetate	0.153	0.144	0.010	-6.1	40.0
Methylene chloride	0.350	0.320	0.010	-8.7	40.0
trans-1,2-Dichloroethene	0.390	0.363	0.010	-7.0	40.0
Methyl tert-butyl ether	0.615	0.577	0.010	-6.1	40.0
1,1-Dichloroethane	0.759	0.699	0.200	-8.0	25.0
cis-1,2-Dichloroethene	0.398	0.373	0.010	-6.3	40.0
2-Butanone	0.108	0.094	0.010	-13.3	40.0
Bromochloromethane	0.259	0.247	0.050	-4.9	25.0
Chloroform	0.957	0.895	0.200	-6.5	25.0
1,1,1-Trichloroethane	1.066	0.980	0.100	-8.1	25.0
Cyclohexane	0.581	0.529	0.010	-8.8	40.0
Carbon tetrachloride	1.095	1.024	0.100	-6.5	25.0
Benzene	1.154	1.106	0.400	-4.1	25.0
1,2-Dichloroethane	0.529	0.517	0.100	-2.3	25.0
1,4-Dioxane	0.0016	0.0017	0.0050	6.3	50.0
Trichloroethene	0.599	0.566	0.300	-5.4	25.0
Methylcyclohexane	0.552	0.506	0.010	-8.4	40.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5972-S Calibration Date: 06/11/2015 Time: 16:56

Lab File ID: SV26S50 Init. Calib. Date(s): 06/04/2015 06/04/2015

EPA Sample No.(VSTD#####): VSTD050S1 Init. Calib. Time(s): 20:18 22:20

Heated Purge: (Y/N) Y GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.457	0.436	0.010	-4.6	40.0
Bromodichloromethane	1.214	1.156	0.200	-4.8	25.0
cis-1,3-Dichloropropene	0.745	0.721	0.200	-3.2	25.0
4-Methyl-2-Pentanone	0.258	0.240	0.010	-7.0	40.0
Toluene	1.204	1.189	0.400	-1.3	25.0
trans-1,3-Dichloropropene	0.605	0.608	0.100	0.5	25.0
1,1,2-Trichloroethane	0.350	0.349	0.100	-0.2	25.0
Tetrachloroethene	0.474	0.465	0.100	-2.0	25.0
2-Hexanone	0.222	0.201	0.010	-9.6	40.0
Dibromochloromethane	0.931	0.921	0.100	-1.1	25.0
1,2-Dibromoethane	0.614	0.612	0.010	-0.4	40.0
Chlorobenzene	0.978	0.964	0.500	-1.5	25.0
Ethylbenzene	1.448	1.429	0.100	-1.3	25.0
o-Xylene	0.552	0.557	0.300	1.0	25.0
m,p-Xylene	0.530	0.531	0.300	0.1	25.0
Styrene	0.914	0.934	0.300	2.2	25.0
Bromoform	1.015	1.009	0.050	-0.6	25.0
Isopropylbenzene	1.647	1.639	0.010	-0.5	40.0
1,1,2,2-Tetrachloroethane	0.591	0.586	0.300	-0.9	25.0
1,3-Dichlorobenzene	1.408	1.385	0.600	-1.7	25.0
1,4-Dichlorobenzene	1.504	1.531	0.500	1.8	25.0
1,2-Dichlorobenzene	1.426	1.406	0.400	-1.4	25.0
1,2-Dibromo-3-chloropropane	0.266	0.248	0.010	-6.5	40.0
1,2,4-Trichlorobenzene	1.056	1.040	0.200	-1.5	25.0
1,2,3-Trichlorobenzene	0.939	0.941	0.200	0.2	25.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5972-S Calibration Date: 06/11/2015 Time: 16:56

Lab File ID: SV26S50 Init. Calib. Date(s): 06/04/2015 06/04/2015

EPA Sample No.(VSTD#####): VSTD050S1 Init. Calib. Time(s): 20:18 22:20

Heated Purge: (Y/N) Y GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.319	0.260	0.010	-18.5	25.0
Chloroethane-d5	0.304	0.265	0.010	-12.8	40.0
1,1-Dichloroethene-d2	1.052	0.927	0.010	-11.9	25.0
2-Butanone-d5	0.087	0.083	0.010	-4.3	40.0
Chloroform-d	1.031	0.947	0.010	-8.1	25.0
1,2-Dichloroethane-d4	0.471	0.438	0.010	-7.1	25.0
Benzene-d6	1.230	1.142	0.010	-7.1	25.0
1,2-Dichloropropane-d6	0.606	0.570	0.010	-5.9	40.0
Toluene-d8	1.112	1.077	0.010	-3.2	25.0
trans-1,3-Dichloropropene-d4	0.585	0.578	0.010	-1.2	25.0
2-Hexanone-d5	0.078	0.076	0.010	-2.3	40.0
1,4-Dioxane-d8	0.0015	0.0016	0.0050	12.0	50.0
1,1,2,2-Tetrachloroethane-d2	0.625	0.608	0.010	-2.6	25.0
1,2-Dichlorobenzene-d4	0.959	0.914	0.010	-4.7	25.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

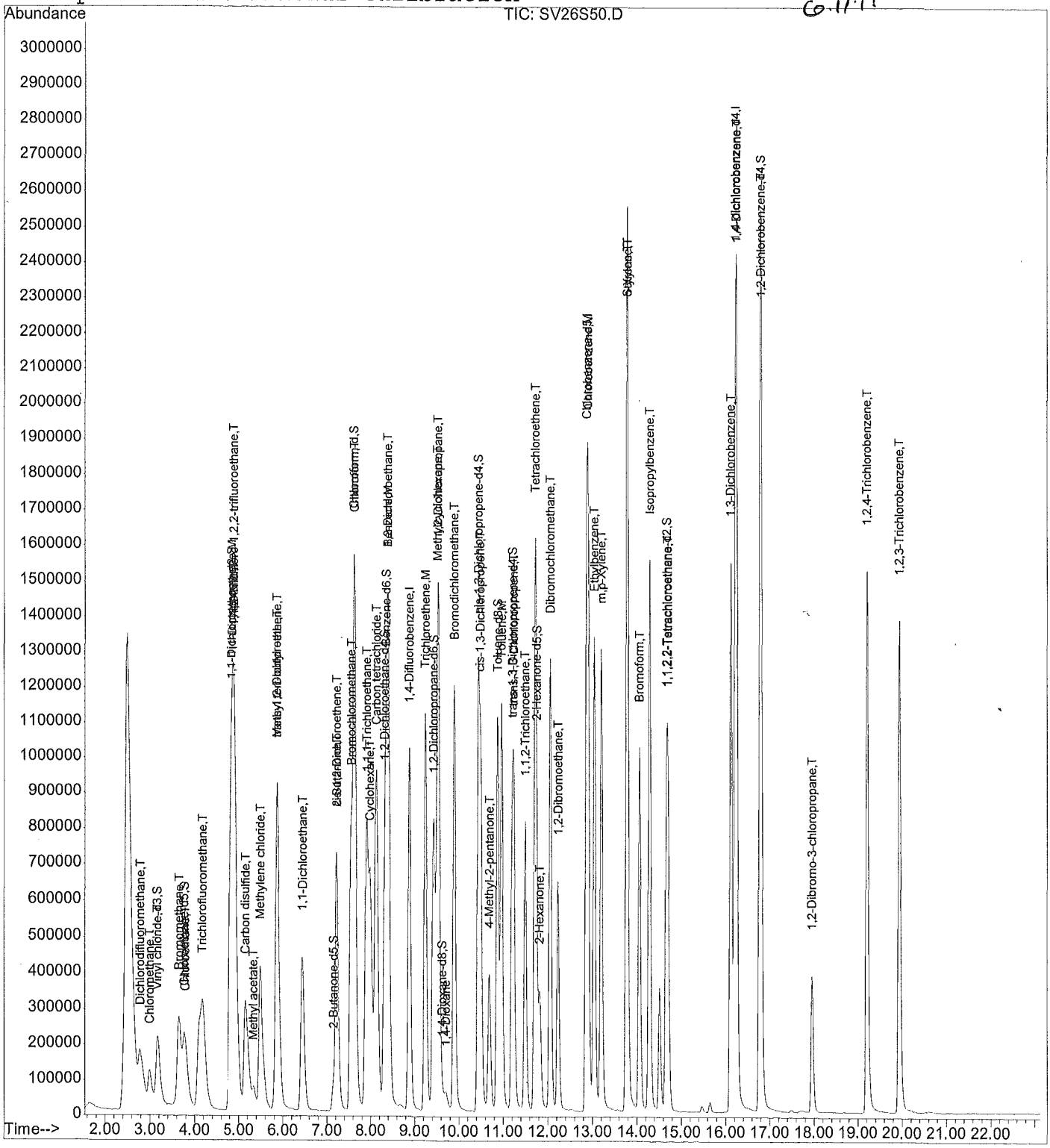
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV26S50.D
Acq Time : 06/11/2015 16:56 Operator: CQC
Sample : VSTD050S1 VSTD050S1 50 ug/Kg CVS Inst : 5972-S
Misc : 2.5 uL of 28198, 28199; 2.0 uL of 28268 Multiplr: 1.00

Quant Time: Jun 11 17:19 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6.11.15



00219

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV26S50.D
Acq Time : 06/11/2015 16:56 Operator: CQC
Sample : VSTD050S1 VSTD050S1 50 ug/Kg CVS Inst : 5972-S
Misc : 2.5 uL of 28198, 28199; 2.0 uL of 28268 Multiplr: 1.00

Quant Time: Jun 11 17:19 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	8.88	114	1573580	50.00	ug/Kg	119.20
30) Chlorobenzene-d5	12.87	117	1303298	50.00	ug/Kg	121.76
62) 1,4-dichlorobenzene-d4	16.21	152	765425	50.00	ug/Kg	125.81
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	3.17	65	409122	40.74	ug/Kg	81.49%
8) Chloroethane-d5	3.77	69	416450	43.59	ug/Kg	87.17%
11) 1,1-Dichloroethene-d2	4.83	63	1459044	44.07	ug/Kg	88.14%
22) 2-Butanone-d5	7.15	46	260897	95.72	ug/Kg	95.72%
25) Chloroform-d	7.61	84	1489587	45.93	ug/Kg	91.86%
27) 1,2-Dichloroethane-d4	8.31	65	688955	46.47	ug/Kg	92.95%
29) 1,4-Dioxane-d8	9.64	96	51380	1120.04	ug/Kg	112.00%
35) Benzene-d6	8.35	84	1488935	46.46	ug/Kg	92.91%
39) 1,2-Dichloropropane-d6	9.42	67	742679	47.05	ug/Kg	94.10%
42) cis-1,3-Dichloropropene-d4	10.45	79	1270413	48.04	ug/Kg	96.08%
44) trans-1,3-Dichloropropene-	11.20	79	753304	49.40	ug/Kg	98.80%
49) Toluene-d8	10.88	98	1403275	48.40	ug/Kg	96.80%
52) 2-Hexanone-d5	11.76	63	197403	97.67	ug/Kg	97.67%
61) 1,1,2,2-Tetrachloroethane-	14.67	84	792973	48.71	ug/Kg	97.42%
67) 1,2-Dichlorobenzene-d4	16.78	152	699235	47.65	ug/Kg	95.31%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.80	85	625081	40.35	ug/Kg#	100
3) Chloromethane	3.00	50	344842	41.71	ug/Kg	98
4) Vinyl chloride	3.18	62	380046	44.08	ug/Kg	99
6) Bromomethane	3.65	94	581885	44.14	ug/Kg	100
7) Chloroethane	3.80	64	301419	46.12	ug/Kg	97
9) Trichlorofluoromethane	4.18	101	1377341	46.31	ug/Kg	100
10) 1,1-Dichloroethene	4.84	96	514672	45.60	ug/Kg	98
12) 1,1,2-Trichloro-1,2,2-trif	4.90	101	1261432	45.07	ug/Kg	99
13) Acetone	4.89	43	254985	86.93	ug/Kg	99
14) Carbon disulfide	5.16	76	1497849	44.59	ug/Kg	98
15) Methyl acetate	5.35	43	226520	46.93	ug/Kg	100
16) Methylene chloride	5.50	84	502821	45.65	ug/Kg	98
17) trans-1,2-Dichloroethene	5.88	96	571230	46.50	ug/Kg	99
18) Methyl tert-butyl ether	5.87	73	907698	46.93	ug/Kg	98
19) 1,1-Dichloroethane	6.44	63	1099745	46.02	ug/Kg	99
20) cis-1,2-Dichloroethene	7.23	96	586524	46.83	ug/Kg	99
21) 2-Butanone	7.23	43	295578	86.73	ug/Kg	99
23) Bromochloromethane	7.55	128	387932	47.53	ug/Kg	96
24) Chloroform	7.64	83	1409014	46.76	ug/Kg	98

(#) = qualifier out of range (m) = manual integration

00219

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV26S50.D
Acq Time : 06/11/2015 16:56 Operator: CQC
Sample : VSTD050S1 VSTD050S1 50 ug/Kg CVS Inst : 5972-S
Misc : 2.5 uL of 28198, 28199; 2.0 uL of 28268 Multiplr: 1.00

Quant Time: Jun 11 17:19 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	8.41	62	813500	48.87 ug/Kg	99
28)	1,4-Dioxane	9.72	88	53062	1062.56 ug/Kg	96
31)	1,1,1-Trichloroethane	7.91	97	1276689	45.94 ug/Kg	100
32)	Cyclohexane	7.99	56	690010	45.60 ug/Kg	98
33)	Carbon tetrachloride	8.13	117	1334545	46.76 ug/Kg	98
34)	Benzene	8.40	78	1441480	47.94 ug/Kg#	98
36)	Trichloroethene	9.24	95	738279	47.31 ug/Kg	99
37)	Methylcyclohexane	9.51	55	659059	45.78 ug/Kg	99
38)	1,2-Dichloropropane	9.54	63	568453	47.70 ug/Kg	98
40)	Bromodichloromethane	9.89	83	1506180	47.59 ug/Kg	99
41)	cis-1,3-Dichloropropene	10.49	75	940022	48.38 ug/Kg	100
43)	trans-1,3-Dichloropropene	11.24	75	791965	50.23 ug/Kg	98
45)	1,1,2-Trichloroethane	11.50	97	454858	49.91 ug/Kg	99
46)	Dibromochloromethane	12.06	129	1200340	49.47 ug/Kg	98
47)	4-Methyl-2-pentanone	10.69	43	624358	93.00 ug/Kg	100
48)	Toluene	10.97	91	1549655	49.37 ug/Kg	100
50)	Tetrachloroethene	11.72	164	605852	49.01 ug/Kg	100
51)	2-Hexanone	11.83	43	523116	90.44 ug/Kg	99
53)	1,2-Dibromoethane	12.24	107	797491	49.82 ug/Kg	99
54)	Chlorobenzene	12.91	112	1256505	49.27 ug/Kg	99
55)	Ethylbenzene	13.04	91	1862521	49.33 ug/Kg	100
56)	m,p-Xylene	13.20	106	692238	50.07 ug/Kg	99
57)	o-Xylene	13.77	106	726311	50.49 ug/Kg	99
58)	Styrene	13.78	104	1216990	51.08 ug/Kg	98
59)	Isopropylbenzene	14.29	105	2135920	49.76 ug/Kg	99
60)	1,1,2,2-Tetrachloroethane	14.71	83	763148	49.57 ug/Kg	99
63)	Bromoform	14.06	173	772449	49.69 ug/Kg	100
64)	1,3-Dichlorobenzene	16.12	146	1059759	49.16 ug/Kg	100
65)	1,4-Dichlorobenzene	16.25	146	1171848	50.91 ug/Kg	97
66)	1,2-Dichlorobenzene	16.80	146	1076363	49.31 ug/Kg	99
68)	1,2-Dibromo-3-chloropropan	17.95	75	189964	46.73 ug/Kg	97
69)	1,2,4-Trichlorobenzene	19.20	180	796128	49.25 ug/Kg	99
70)	1,2,3-Trichlorobenzene	19.94	180	720163	50.08 ug/Kg	99

(#) = qualifier out of range (m) = manual integration

00220

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5972-S Calibration Date: 06/12/2015 Time: 01:36

Lab File ID: SV43F50 Init. Calib. Date(s): 06/04/2015 06/04/2015

EPA Sample No.(VSTD#####): VSTD050S2 Init. Calib. Time(s): 20:18 22:20

Heated Purge: (Y/N) Y GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.492	0.393	0.010	-20.2	50.0
Chloromethane	0.263	0.222	0.010	-15.5	50.0
Vinyl chloride	0.274	0.247	0.010	-10.0	50.0
Bromomethane	0.419	0.383	0.010	-8.6	50.0
Chloroethane	0.208	0.189	0.010	-8.8	50.0
Trichlorofluoromethane	0.945	0.845	0.010	-10.6	50.0
1,1-Dichloroethene	0.359	0.332	0.010	-7.5	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.889	0.819	0.010	-8.0	50.0
Acetone	0.093	0.089	0.010	-4.5	50.0
Carbon disulfide	1.067	0.977	0.010	-8.5	50.0
Methyl acetate	0.153	0.140	0.010	-8.4	50.0
Methylene chloride	0.350	0.326	0.010	-6.9	50.0
trans-1,2-Dichloroethene	0.390	0.366	0.010	-6.3	50.0
Methyl tert-butyl ether	0.615	0.552	0.010	-10.2	50.0
1,1-Dichloroethane	0.759	0.705	0.010	-7.2	50.0
cis-1,2-Dichloroethene	0.398	0.378	0.010	-5.0	50.0
2-Butanone	0.108	0.095	0.010	-11.9	50.0
Bromochloromethane	0.259	0.250	0.010	-3.5	50.0
Chloroform	0.957	0.907	0.010	-5.3	50.0
1,1,1-Trichloroethane	1.066	0.994	0.010	-6.8	50.0
Cyclohexane	0.581	0.524	0.010	-9.7	50.0
Carbon tetrachloride	1.095	1.044	0.010	-4.7	50.0
Benzene	1.154	1.100	0.010	-4.7	50.0
1,2-Dichloroethane	0.529	0.514	0.010	-2.8	50.0
1,4-Dioxane	0.0016	0.0016	0.0050	-0.4	50.0
Trichloroethene	0.599	0.568	0.010	-5.1	50.0
Methylcyclohexane	0.552	0.495	0.010	-10.4	50.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5972-S Calibration Date: 06/12/2015 Time: 01:36

Lab File ID: SV43F50 Init. Calib. Date(s): 06/04/2015 06/04/2015

EPA Sample No.(VSTD#####): VSTD050S2 Init. Calib. Time(s): 20:18 22:20

Heated Purge: (Y/N) Y GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.457	0.442	0.010	-3.2	50.0
Bromodichloromethane	1.214	1.158	0.010	-4.6	50.0
cis-1,3-Dichloropropene	0.745	0.713	0.010	-4.4	50.0
4-Methyl-2-Pentanone	0.258	0.230	0.010	-10.9	50.0
Toluene	1.204	1.170	0.010	-2.9	50.0
trans-1,3-Dichloropropene	0.605	0.587	0.010	-2.9	50.0
1,1,2-Trichloroethane	0.350	0.343	0.010	-2.0	50.0
Tetrachloroethene	0.474	0.472	0.010	-0.5	50.0
2-Hexanone	0.222	0.196	0.010	-11.7	50.0
Dibromochloromethane	0.931	0.942	0.010	1.2	50.0
1,2-Dibromoethane	0.614	0.627	0.010	2.2	50.0
Chlorobenzene	0.978	0.965	0.010	-1.3	50.0
Ethylbenzene	1.448	1.419	0.010	-2.0	50.0
o-Xylene	0.552	0.556	0.010	0.7	50.0
m,p-Xylene	0.530	0.522	0.010	-1.5	50.0
Styrene	0.914	0.930	0.010	1.8	50.0
Bromoform	1.015	1.024	0.010	0.8	50.0
Isopropylbenzene	1.647	1.653	0.010	0.4	50.0
1,1,2,2-Tetrachloroethane	0.591	0.586	0.010	-0.8	50.0
1,3-Dichlorobenzene	1.408	1.370	0.010	-2.7	50.0
1,4-Dichlorobenzene	1.504	1.506	0.010	0.2	50.0
1,2-Dichlorobenzene	1.426	1.423	0.010	-0.2	50.0
1,2-Dibromo-3-chloropropane	0.266	0.243	0.010	-8.4	50.0
1,2,4-Trichlorobenzene	1.056	0.984	0.010	-6.8	50.0
1,2,3-Trichlorobenzene	0.939	0.863	0.010	-8.1	50.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5972-S Calibration Date: 06/12/2015 Time: 01:36

Lab File ID: SV43F50 Init. Calib. Date(s): 06/04/2015 06/04/2015

EPA Sample No.(VSTD#####): VSTD050S2 Init. Calib. Time(s): 20:18 22:20

Heated Purge: (Y/N) Y GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.319	0.250	0.010	-21.8	50.0
Chloroethane-d5	0.304	0.253	0.010	-16.8	50.0
1,1-Dichloroethene-d2	1.052	0.926	0.010	-12.0	50.0
2-Butanone-d5	0.087	0.081	0.010	-7.0	50.0
Chloroform-d	1.031	0.956	0.010	-7.2	50.0
1,2-Dichloroethane-d4	0.471	0.441	0.010	-6.3	50.0
Benzene-d6	1.230	1.150	0.010	-6.5	50.0
1,2-Dichloropropane-d6	0.606	0.565	0.010	-6.7	50.0
Toluene-d8	1.112	1.071	0.010	-3.7	50.0
trans-1,3-Dichloropropene-d4	0.585	0.562	0.010	-4.0	50.0
2-Hexanone-d5	0.078	0.072	0.010	-6.6	50.0
1,4-Dioxane-d8	0.0015	0.0016	0.0050	7.3	50.0
1,1,2,2-Tetrachloroethane-d2	0.625	0.617	0.010	-1.2	50.0
1,2-Dichlorobenzene-d4	0.959	0.918	0.010	-4.2	50.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

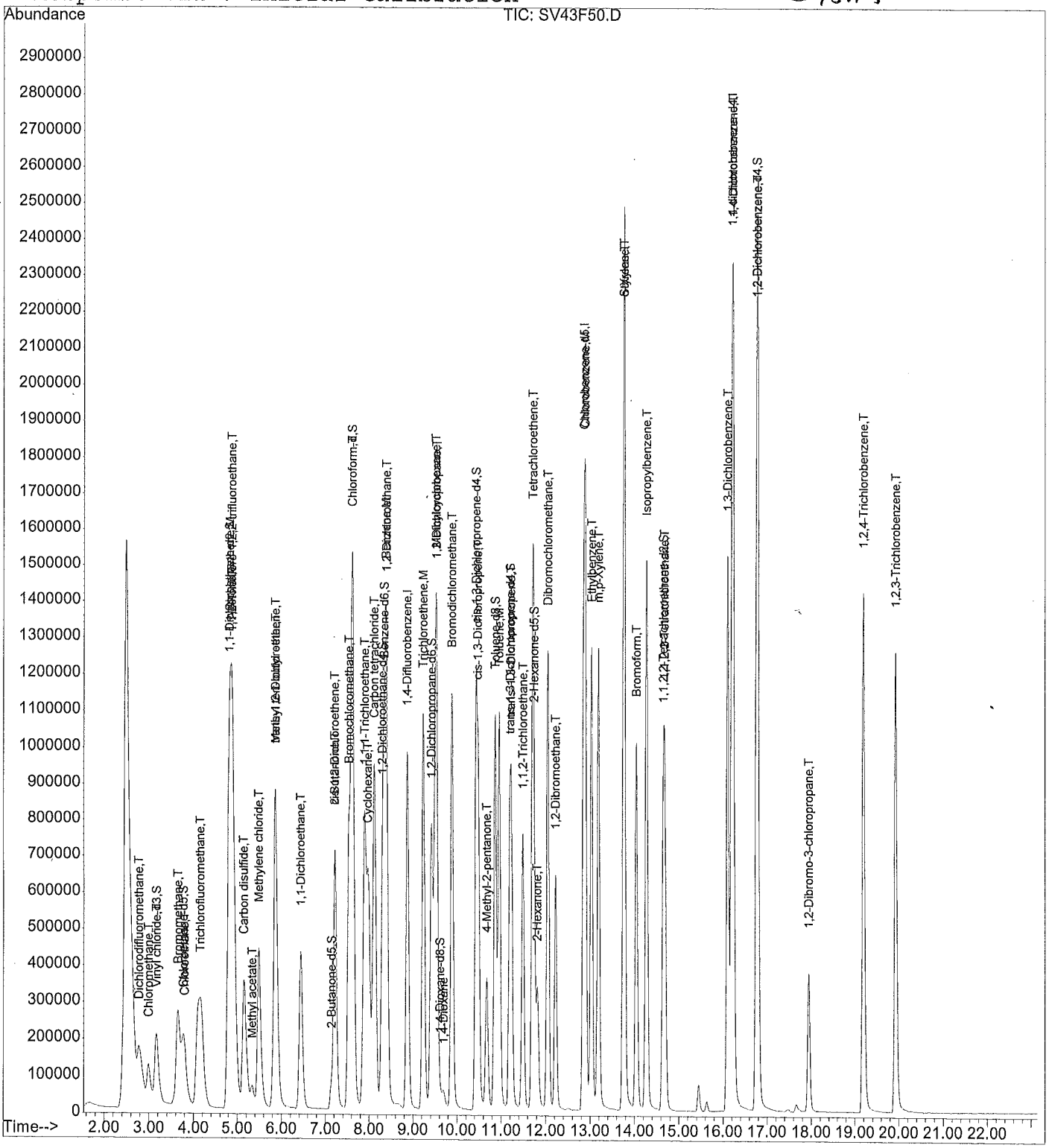
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV43F50.D
Acq Time : 06/12/2015 01:36 Operator: CQC
Sample : VSTD050S2 VSTD050S2 50 ug/Kg CVS Inst : 5972-S
Misc : 2.5 uL of 28198, 28199 Multiplr: 1.00

Quant Time: Jun 12 1:59 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6.13.15



00324

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV43F50.D
Acq Time : 06/12/2015 01:36 Operator: CQC
Sample : VSTD050S2 VSTD050S2 50 ug/Kg CVS Inst : 5972-S
Misc : 2.5 uL of 28198, 28199 Multiplr: 1.00

Quant Time: Jun 12 1:59 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	8.87	114	1518131	50.00	ug/Kg	115.00
30) Chlorobenzene-d5	12.85	117	1254575	50.00	ug/Kg	117.20
62) 1,4-dichlorobenzene-d4	16.20	152	757166	50.00	ug/Kg	124.45
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	3.16	65	378911	39.11	ug/Kg	78.23%
8) Chloroethane-d5	3.77	69	383602	41.62	ug/Kg	83.23%
11) 1,1-Dichloroethene-d2	4.81	63	1405791	44.01	ug/Kg	88.02%
22) 2-Butanone-d5	7.13	46	244496	92.98	ug/Kg	92.98%
25) Chloroform-d	7.61	84	1451121	46.38	ug/Kg	92.76%
27) 1,2-Dichloroethane-d4	8.29	65	669888	46.84	ug/Kg	93.68%
29) 1,4-Dioxane-d8	9.62	96	47489	1073.03	ug/Kg	107.30%
35) Benzene-d6	8.33	84	1442939	46.77	ug/Kg	93.54%
39) 1,2-Dichloropropane-d6	9.42	67	708969	46.66	ug/Kg	93.31%
42) cis-1,3-Dichloropropene-d4	10.43	79	1200636	47.16	ug/Kg	94.33%
44) trans-1,3-Dichloropropene-	11.19	79	704925	48.02	ug/Kg	96.05%
49) Toluene-d8	10.86	98	1344190	48.16	ug/Kg	96.32%
52) 2-Hexanone-d5	11.75	63	181646	93.37	ug/Kg	93.37%
61) 1,1,2,2-Tetrachloroethane-	14.64	84	773850	49.38	ug/Kg	98.76%
67) 1,2-Dichlorobenzene-d4	16.76	152	694916	47.88	ug/Kg	95.75%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.78	85	596432	39.91	ug/Kg#	100
3) Chloromethane	2.99	50	337139	42.26	ug/Kg	98
4) Vinyl chloride	3.17	62	374446	45.02	ug/Kg	100
6) Bromomethane	3.64	94	581147	45.69	ug/Kg	99
7) Chloroethane	3.81	64	287515	45.60	ug/Kg	98
9) Trichlorofluoromethane	4.15	101	1282902	44.71	ug/Kg	100
10) 1,1-Dichloroethene	4.82	96	503865	46.27	ug/Kg	96
12) 1,1,2-Trichloro-1,2,2-trif	4.89	101	1242675	46.02	ug/Kg	98
13) Acetone	4.88	43	270268	95.51	ug/Kg	100
14) Carbon disulfide	5.15	76	1483199	45.77	ug/Kg	97
15) Methyl acetate	5.33	43	213234	45.79	ug/Kg	99
16) Methylene chloride	5.48	84	494648	46.55	ug/Kg	97
17) trans-1,2-Dichloroethene	5.86	96	555517	46.87	ug/Kg	98
18) Methyl tert-butyl ether	5.86	73	838305	44.92	ug/Kg	99
19) 1,1-Dichloroethane	6.43	63	1069956	46.41	ug/Kg	99
20) cis-1,2-Dichloroethene	7.21	96	574217	47.52	ug/Kg	98
21) 2-Butanone	7.22	43	289640	88.09	ug/Kg	99
23) Bromochloromethane	7.54	128	379791	48.23	ug/Kg	94
24) Chloroform	7.63	83	1376395	47.35	ug/Kg	98

(#) = qualifier out of range (m) = manual integration

00025

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV43F50.D
Acq Time : 06/12/2015 01:36 Operator: CQC
Sample : VSTD050S2 VSTD050S2 50 ug/Kg CVS Inst : 5972-S
Misc : 2.5 uL of 28198, 28199 Multiplr: 1.00

Quant Time: Jun 12 1:59 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	1,2-Dichloroethane	8.40	62	780353	48.59	ug/Kg	98
28)	1,4-Dioxane	9.70	88	48007	996.45	ug/Kg	96
31)	1,1,1-Trichloroethane	7.90	97	1246894	46.61	ug/Kg	99
32)	Cyclohexane	7.98	56	657931	45.17	ug/Kg	98
33)	Carbon tetrachloride	8.12	117	1309388	47.66	ug/Kg	97
34)	Benzene	8.39	78	1379638	47.67	ug/Kg#	97
36)	Trichloroethene	9.23	95	712753	47.44	ug/Kg	98
37)	Methylcyclohexane	9.51	55	621172	44.82	ug/Kg	98
38)	1,2-Dichloropropane	9.53	63	555084	48.39	ug/Kg	95
40)	Bromodichloromethane	9.89	83	1453117	47.70	ug/Kg	100
41)	cis-1,3-Dichloropropene	10.48	75	894281	47.82	ug/Kg	98
43)	trans-1,3-Dichloropropene	11.23	75	736575	48.54	ug/Kg	97
45)	1,1,2-Trichloroethane	11.49	97	430046	49.02	ug/Kg	99
46)	Dibromochloromethane	12.04	129	1182173	50.61	ug/Kg	97
47)	4-Methyl-2-pentanone	10.68	43	575937	89.12	ug/Kg	99
48)	Toluene	10.95	91	1467560	48.57	ug/Kg	99
50)	Tetrachloroethene	11.71	164	591972	49.75	ug/Kg	100
51)	2-Hexanone	11.82	43	491392	88.26	ug/Kg	99
53)	1,2-Dibromoethane	12.22	107	787190	51.09	ug/Kg	99
54)	Chlorobenzene	12.89	112	1211045	49.33	ug/Kg	98
55)	Ethylbenzene	13.03	91	1780105	48.98	ug/Kg	100
56)	m,p-Xylene	13.19	106	655299	49.24	ug/Kg	100
57)	o-Xylene	13.75	106	697463	50.37	ug/Kg	99
58)	Styrene	13.77	104	1167176	50.89	ug/Kg	98
59)	Isopropylbenzene	14.27	105	2073624	50.19	ug/Kg	99
60)	1,1,2,2-Tetrachloroethane	14.68	83	734884	49.58	ug/Kg	99
63)	Bromoform	14.04	173	775191	50.41	ug/Kg	99
64)	1,3-Dichlorobenzene	16.10	146	1037465	48.66	ug/Kg	98
65)	1,4-Dichlorobenzene	16.23	146	1140305	50.08	ug/Kg	98
66)	1,2-Dichlorobenzene	16.79	146	1077281	49.89	ug/Kg	97
68)	1,2-Dibromo-3-chloropropan	17.94	75	184062	45.78	ug/Kg	96
69)	1,2,4-Trichlorobenzene	19.19	180	745370	46.61	ug/Kg	100
70)	1,2,3-Trichlorobenzene	19.93	180	653473	45.94	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5972-S Calibration Date: 06/13/2015 Time: 10:54

Lab File ID: SV46S50 Init. Calib. Date(s): 06/04/2015 06/04/2015

EPA Sample No.(VSTD#####): VSTD050S3 Init. Calib. Time(s): 20:18 22:20

Heated Purge: (Y/N) Y GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.492	0.392	0.010	-20.4	40.0
Chloromethane	0.263	0.216	0.010	-17.6	40.0
Vinyl chloride	0.274	0.243	0.100	-11.2	25.0
Bromomethane	0.419	0.383	0.100	-8.6	25.0
Chloroethane	0.208	0.189	0.010	-8.8	40.0
Trichlorofluoromethane	0.945	0.889	0.010	-5.9	40.0
1,1-Dichloroethene	0.359	0.329	0.100	-8.1	25.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.889	0.820	0.010	-7.8	40.0
Acetone	0.093	0.086	0.010	-8.0	40.0
Carbon disulfide	1.067	0.967	0.010	-9.4	40.0
Methyl acetate	0.153	0.152	0.010	-1.0	40.0
Methylene chloride	0.350	0.326	0.010	-6.7	40.0
trans-1,2-Dichloroethene	0.390	0.369	0.010	-5.6	40.0
Methyl tert-butyl ether	0.615	0.590	0.010	-4.0	40.0
1,1-Dichloroethane	0.759	0.697	0.200	-8.3	25.0
cis-1,2-Dichloroethene	0.398	0.378	0.010	-5.0	40.0
2-Butanone	0.108	0.096	0.010	-11.2	40.0
Bromochloromethane	0.259	0.258	0.050	-0.6	25.0
Chloroform	0.957	0.900	0.200	-6.0	25.0
1,1,1-Trichloroethane	1.066	1.000	0.100	-6.2	25.0
Cyclohexane	0.581	0.529	0.010	-8.9	40.0
Carbon tetrachloride	1.095	1.050	0.100	-4.1	25.0
Benzene	1.154	1.094	0.400	-5.1	25.0
1,2-Dichloroethane	0.529	0.519	0.100	-1.9	25.0
1,4-Dioxane	0.0016	0.0018	0.0050	11.2	50.0
Trichloroethene	0.599	0.575	0.300	-3.9	25.0
Methylcyclohexane	0.552	0.504	0.010	-8.8	40.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5972-S Calibration Date: 06/13/2015 Time: 10:54

Lab File ID: SV46S50 Init. Calib. Date(s): 06/04/2015 06/04/2015

EPA Sample No.(VSTD#####): VSTD050S3 Init. Calib. Time(s): 20:18 22:20

Heated Purge: (Y/N) Y GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.457	0.437	0.010	-4.4	40.0
Bromodichloromethane	1.214	1.183	0.200	-2.6	25.0
cis-1,3-Dichloropropene	0.745	0.725	0.200	-2.7	25.0
4-Methyl-2-Pentanone	0.258	0.246	0.010	-4.5	40.0
Toluene	1.204	1.167	0.400	-3.1	25.0
trans-1,3-Dichloropropene	0.605	0.610	0.100	0.8	25.0
1,1,2-Trichloroethane	0.350	0.357	0.100	2.0	25.0
Tetrachloroethene	0.474	0.474	0.100	0.0	25.0
2-Hexanone	0.222	0.196	0.010	-11.8	40.0
Dibromochloromethane	0.931	0.964	0.100	3.6	25.0
1,2-Dibromoethane	0.614	0.650	0.010	5.8	40.0
Chlorobenzene	0.978	0.959	0.500	-2.0	25.0
Ethylbenzene	1.448	1.395	0.100	-3.7	25.0
o-Xylene	0.552	0.545	0.300	-1.2	25.0
m,p-Xylene	0.530	0.518	0.300	-2.3	25.0
Styrene	0.914	0.915	0.300	0.1	25.0
Bromoform	1.015	1.079	0.050	6.3	25.0
Isopropylbenzene	1.647	1.621	0.010	-1.6	40.0
1,1,2,2-Tetrachloroethane	0.591	0.615	0.300	4.1	25.0
1,3-Dichlorobenzene	1.408	1.385	0.600	-1.6	25.0
1,4-Dichlorobenzene	1.504	1.523	0.500	1.3	25.0
1,2-Dichlorobenzene	1.426	1.434	0.400	0.6	25.0
1,2-Dibromo-3-chloropropane	0.266	0.270	0.010	1.7	40.0
1,2,4-Trichlorobenzene	1.056	1.033	0.200	-2.2	25.0
1,2,3-Trichlorobenzene	0.939	0.931	0.200	-0.9	25.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5972-S Calibration Date: 06/13/2015 Time: 10:54

Lab File ID: SV46S50 Init. Calib. Date(s): 06/04/2015 06/04/2015

EPA Sample No.(VSTD#####): VSTD050S3 Init. Calib. Time(s): 20:18 22:20

Heated Purge: (Y/N) Y GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.319	0.248	0.010	-22.4	25.0
Chloroethane-d5	0.304	0.255	0.010	-16.1	40.0
1,1-Dichloroethene-d2	1.052	0.914	0.010	-13.1	25.0
2-Butanone-d5	0.087	0.086	0.010	-0.5	40.0
Chloroform-d	1.031	0.953	0.010	-7.5	25.0
1,2-Dichloroethane-d4	0.471	0.446	0.010	-5.4	25.0
Benzene-d6	1.230	1.151	0.010	-6.4	25.0
1,2-Dichloropropane-d6	0.606	0.575	0.010	-5.1	40.0
Toluene-d8	1.112	1.073	0.010	-3.6	25.0
trans-1,3-Dichloropropene-d4	0.585	0.583	0.010	-0.3	25.0
2-Hexanone-d5	0.078	0.077	0.010	-1.1	40.0
1,4-Dioxane-d8	0.0015	0.0018	0.0050	20.8	50.0
1,1,2,2-Tetrachloroethane-d2	0.625	0.642	0.010	2.8	25.0
1,2-Dichlorobenzene-d4	0.959	0.925	0.010	-3.5	25.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

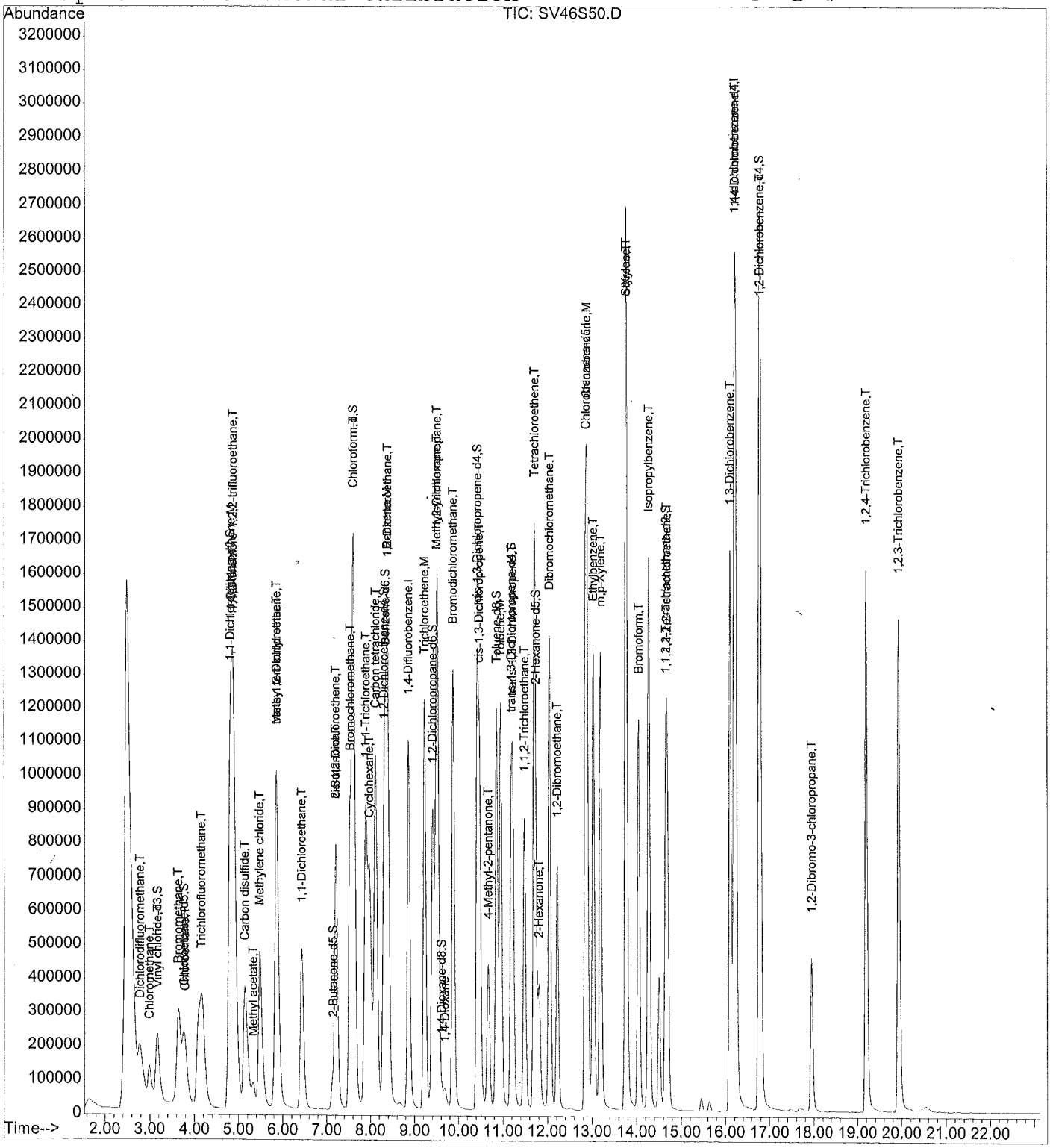
Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV46S50.D
Acq Time : 06/13/2015 10:54 Operator: CQC
Sample : VSTD050S3 VSTD050S3 50 ug/Kg CVS Inst : 5972-S
Misc : 2.5 uL of 28198, 28199; 2.0 uL of 28268 Multiplr: 1.00

Quant Time: Jun 13 11:17 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6.13.15



00238

Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV46S50.D
Acq Time : 06/13/2015 10:54 Operator: CQC
Sample : VSTD050S3 VSTD050S3 50 ug/Kg CVS Inst : 5972-S
Misc : 2.5 uL of 28198, 28199; 2.0 uL of 28268 Multiplr: 1.00

Quant Time: Jun 13 11:17 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.86	114	1709511	50.00 ug/Kg	129.50
30) Chlorobenzene-d5	12.85	117	1404726	50.00 ug/Kg	131.23
62) 1,4-dichlorobenzene-d4	16.20	152	828652	50.00 ug/Kg	136.20
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.16	65	423161	38.79 ug/Kg	77.58%
8) Chloroethane-d5	3.75	69	435306	41.94 ug/Kg	83.88%
11) 1,1-Dichloroethene-d2	4.81	63	1562552	43.44 ug/Kg	86.88%
22) 2-Butanone-d5	7.14	46	294543	99.47 ug/Kg	99.47%
25) Chloroform-d	7.60	84	1629886	46.26 ug/Kg	92.52%
27) 1,2-Dichloroethane-d4	8.30	65	762034	47.32 ug/Kg	94.63%
29) 1,4-Dioxane-d8	9.62	96	60192	1207.80 ug/Kg	120.78%
35) Benzene-d6	8.33	84	1616469	46.79 ug/Kg	93.59%
39) 1,2-Dichloropropane-d6	9.41	67	807737	47.47 ug/Kg	94.95%
42) cis-1,3-Dichloropropene-d4	10.43	79	1385697	48.62 ug/Kg	97.23%
44) trans-1,3-Dichloropropene-	11.18	79	818974	49.83 ug/Kg	99.66%
49) Toluene-d8	10.86	98	1506631	48.21 ug/Kg	96.42%
52) 2-Hexanone-d5	11.74	63	215378	98.87 ug/Kg	98.87%
61) 1,1,2,2-Tetrachloroethane-	14.65	84	902176	51.41 ug/Kg	102.83%
67) 1,2-Dichlorobenzene-d4	16.76	152	766383	48.24 ug/Kg	96.49%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.79	85	669707	39.80 ug/Kg#	100
3) Chloromethane	2.99	50	369870	41.18 ug/Kg	97
4) Vinyl chloride	3.17	62	415901	44.41 ug/Kg	99
6) Bromomethane	3.65	94	654389	45.69 ug/Kg	99
7) Chloroethane	3.79	64	323855	45.61 ug/Kg	96
9) Trichlorofluoromethane	4.16	101	1519855	47.04 ug/Kg	100
10) 1,1-Dichloroethene	4.83	96	563242	45.93 ug/Kg	97
12) 1,1,2-Trichloro-1,2,2-trif	4.89	101	1402356	46.12 ug/Kg	98
13) Acetone	4.88	43	293164	92.00 ug/Kg	100
14) Carbon disulfide	5.14	76	1652473	45.28 ug/Kg	97
15) Methyl acetate	5.33	43	259549	49.50 ug/Kg	98
16) Methylene chloride	5.49	84	558039	46.64 ug/Kg	97
17) trans-1,2-Dichloroethene	5.86	96	630185	47.22 ug/Kg	98
18) Methyl tert-butyl ether	5.85	73	1008297	47.98 ug/Kg	98
19) 1,1-Dichloroethane	6.43	63	1190951	45.87 ug/Kg	99
20) cis-1,2-Dichloroethene	7.21	96	646498	47.51 ug/Kg	98
21) 2-Butanone	7.22	43	328911	88.84 ug/Kg	98
23) Bromochloromethane	7.53	128	440852	49.71 ug/Kg	91
24) Chloroform	7.62	83	1537999	46.98 ug/Kg	97

(#) = qualifier out of range (m) = manual integration

00231

Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV46S50.D
Acq Time : 06/13/2015 10:54 Operator: CQC
Sample : VSTD050S3 VSTD050S3 50 ug/Kg CVS Inst : 5972-S
Misc : 2.5 uL of 28198, 28199; 2.0 uL of 28268 Multiplr: 1.00

Quant Time: Jun 13 11:17 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	8.40	62	887226	49.06 ug/Kg	98
28)	1,4-Dioxane	9.70	88	60354	1112.48 ug/Kg	94
31)	1,1,1-Trichloroethane	7.90	97	1404763	46.89 ug/Kg	98
32)	Cyclohexane	7.99	56	742849	45.55 ug/Kg	99
33)	Carbon tetrachloride	8.11	117	1475586	47.97 ug/Kg	95
34)	Benzene	8.39	78	1537297	47.43 ug/Kg#	97
36)	Trichloroethene	9.23	95	808269	48.05 ug/Kg	99
37)	Methylcyclohexane	9.49	55	707506	45.59 ug/Kg	99
38)	1,2-Dichloropropane	9.52	63	614062	47.81 ug/Kg	96
40)	Bromodichloromethane	9.87	83	1661204	48.70 ug/Kg	99
41)	cis-1,3-Dichloropropene	10.48	75	1018972	48.66 ug/Kg	98
43)	trans-1,3-Dichloropropene	11.22	75	856686	50.42 ug/Kg	97
45)	1,1,2-Trichloroethane	11.49	97	501119	51.01 ug/Kg	98
46)	Dibromochloromethane	12.04	129	1354329	51.79 ug/Kg	96
47)	4-Methyl-2-pentanone	10.67	43	690805	95.47 ug/Kg	99
48)	Toluene	10.95	91	1639899	48.47 ug/Kg	99
50)	Tetrachloroethene	11.71	164	666365	50.02 ug/Kg	100
51)	2-Hexanone	11.81	43	549828	88.20 ug/Kg	98
53)	1,2-Dibromoethane	12.22	107	913027	52.92 ug/Kg	99
54)	Chlorobenzene	12.89	112	1346871	49.00 ug/Kg	99
55)	Ethylbenzene	13.02	91	1959477	48.15 ug/Kg	99
56)	m,p-Xylene	13.19	106	728007	48.86 ug/Kg	98
57)	o-Xylene	13.75	106	766176	49.42 ug/Kg	98
58)	Styrene	13.77	104	1285305	50.05 ug/Kg	97
59)	Isopropylbenzene	14.27	105	2276392	49.21 ug/Kg	99
60)	1,1,2,2-Tetrachloroethane	14.69	83	863790	52.05 ug/Kg	99
63)	Bromoform	14.05	173	894260	53.14 ug/Kg	100
64)	1,3-Dichlorobenzene	16.10	146	1147800	49.19 ug/Kg	98
65)	1,4-Dichlorobenzene	16.23	146	1261643	50.63 ug/Kg	97
66)	1,2-Dichlorobenzene	16.79	146	1188618	50.30 ug/Kg	97
68)	1,2-Dibromo-3-chloropropan	17.94	75	223805	50.86 ug/Kg	96
69)	1,2,4-Trichlorobenzene	19.19	180	855628	48.89 ug/Kg	100
70)	1,2,3-Trichlorobenzene	19.93	180	771163	49.53 ug/Kg	100

(#) = qualifier out of range (m) = manual integration

00232

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5972-S Calibration Date: 06/13/2015 Time: 16:07

Lab File ID: SV56F50 Init. Calib. Date(s): 06/04/2015 06/04/2015

EPA Sample No.(VSTD#####): VSTD050S4 Init. Calib. Time(s): 20:18 22:20

Heated Purge: (Y/N) Y GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.492	0.378	0.010	-23.1	50.0
Chloromethane	0.263	0.216	0.010	-17.6	50.0
Vinyl chloride	0.274	0.236	0.010	-13.9	50.0
Bromomethane	0.419	0.362	0.010	-13.6	50.0
Chloroethane	0.208	0.184	0.010	-11.6	50.0
Trichlorofluoromethane	0.945	0.799	0.010	-15.4	50.0
1,1-Dichloroethene	0.359	0.324	0.010	-9.6	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.889	0.802	0.010	-9.8	50.0
Acetone	0.093	0.116	0.010	24.8	50.0
Carbon disulfide	1.067	0.898	0.010	-15.8	50.0
Methyl acetate	0.153	0.164	0.010	6.6	50.0
Methylene chloride	0.350	0.320	0.010	-8.6	50.0
trans-1,2-Dichloroethene	0.390	0.362	0.010	-7.3	50.0
Methyl tert-butyl ether	0.615	0.605	0.010	-1.5	50.0
1,1-Dichloroethane	0.759	0.692	0.010	-8.9	50.0
cis-1,2-Dichloroethene	0.398	0.376	0.010	-5.5	50.0
2-Butanone	0.108	0.130	0.010	19.7	50.0
Bromochloromethane	0.259	0.258	0.010	-0.4	50.0
Chloroform	0.957	0.895	0.010	-6.5	50.0
1,1,1-Trichloroethane	1.066	0.975	0.010	-8.5	50.0
Cyclohexane	0.581	0.532	0.010	-8.4	50.0
Carbon tetrachloride	1.095	1.031	0.010	-5.8	50.0
Benzene	1.154	1.105	0.010	-4.2	50.0
1,2-Dichloroethane	0.529	0.539	0.010	1.9	50.0
1,4-Dioxane	0.0016	0.0020	0.0050	27.0	50.0
Trichloroethene	0.599	0.584	0.010	-2.4	50.0
Methylcyclohexane	0.552	0.508	0.010	-7.9	50.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5972-S Calibration Date: 06/13/2015 Time: 16:07

Lab File ID: SV56F50 Init. Calib. Date(s): 06/04/2015 06/04/2015

EPA Sample No.(VSTD#####): VSTD050S4 Init. Calib. Time(s): 20:18 22:20

Heated Purge: (Y/N) Y GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.457	0.456	0.010	-0.3	50.0
Bromodichloromethane	1.214	1.183	0.010	-2.6	50.0
cis-1,3-Dichloropropene	0.745	0.751	0.010	0.7	50.0
4-Methyl-2-Pentanone	0.258	0.274	0.010	6.2	50.0
Toluene	1.204	1.188	0.010	-1.4	50.0
trans-1,3-Dichloropropene	0.605	0.643	0.010	6.3	50.0
1,1,2-Trichloroethane	0.350	0.376	0.010	7.4	50.0
Tetrachloroethene	0.474	0.483	0.010	1.9	50.0
2-Hexanone	0.222	0.252	0.010	13.4	50.0
Dibromochloromethane	0.931	0.993	0.010	6.7	50.0
1,2-Dibromoethane	0.614	0.678	0.010	10.5	50.0
Chlorobenzene	0.978	0.975	0.010	-0.4	50.0
Ethylbenzene	1.448	1.419	0.010	-2.0	50.0
o-Xylene	0.552	0.554	0.010	0.4	50.0
m,p-Xylene	0.530	0.519	0.010	-2.1	50.0
Styrene	0.914	0.930	0.010	1.7	50.0
Bromoform	1.015	1.103	0.010	8.6	50.0
Isopropylbenzene	1.647	1.646	0.010	0.0	50.0
1,1,2,2-Tetrachloroethane	0.591	0.645	0.010	9.2	50.0
1,3-Dichlorobenzene	1.408	1.407	0.010	-0.1	50.0
1,4-Dichlorobenzene	1.504	1.534	0.010	2.0	50.0
1,2-Dichlorobenzene	1.426	1.435	0.010	0.6	50.0
1,2-Dibromo-3-chloropropane	0.266	0.290	0.010	9.3	50.0
1,2,4-Trichlorobenzene	1.056	1.054	0.010	-0.2	50.0
1,2,3-Trichlorobenzene	0.939	0.956	0.010	1.8	50.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5972-S Calibration Date: 06/13/2015 Time: 16:07

Lab File ID: SV56F50 Init. Calib. Date(s): 06/04/2015 06/04/2015

EPA Sample No.(VSTD#####): VSTD050S4 Init. Calib. Time(s): 20:18 22:20

Heated Purge: (Y/N) Y GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.319	0.234	0.010	-26.7	50.0
Chloroethane-d5	0.304	0.243	0.010	-20.0	50.0
1,1-Dichloroethene-d2	1.052	0.884	0.010	-16.0	50.0
2-Butanone-d5	0.087	0.105	0.010	20.7	50.0
Chloroform-d	1.031	0.927	0.010	-10.0	50.0
1,2-Dichloroethane-d4	0.471	0.454	0.010	-3.6	50.0
Benzene-d6	1.230	1.127	0.010	-8.4	50.0
1,2-Dichloropropane-d6	0.606	0.575	0.010	-5.1	50.0
Toluene-d8	1.112	1.063	0.010	-4.4	50.0
trans-1,3-Dichloropropene-d4	0.585	0.603	0.010	3.0	50.0
2-Hexanone-d5	0.078	0.090	0.010	15.8	50.0
1,4-Dioxane-d8	0.0015	0.0020	0.0050	36.6	50.0
1,1,2,2-Tetrachloroethane-d2	0.625	0.671	0.010	7.5	50.0
1,2-Dichlorobenzene-d4	0.959	0.930	0.010	-2.9	50.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

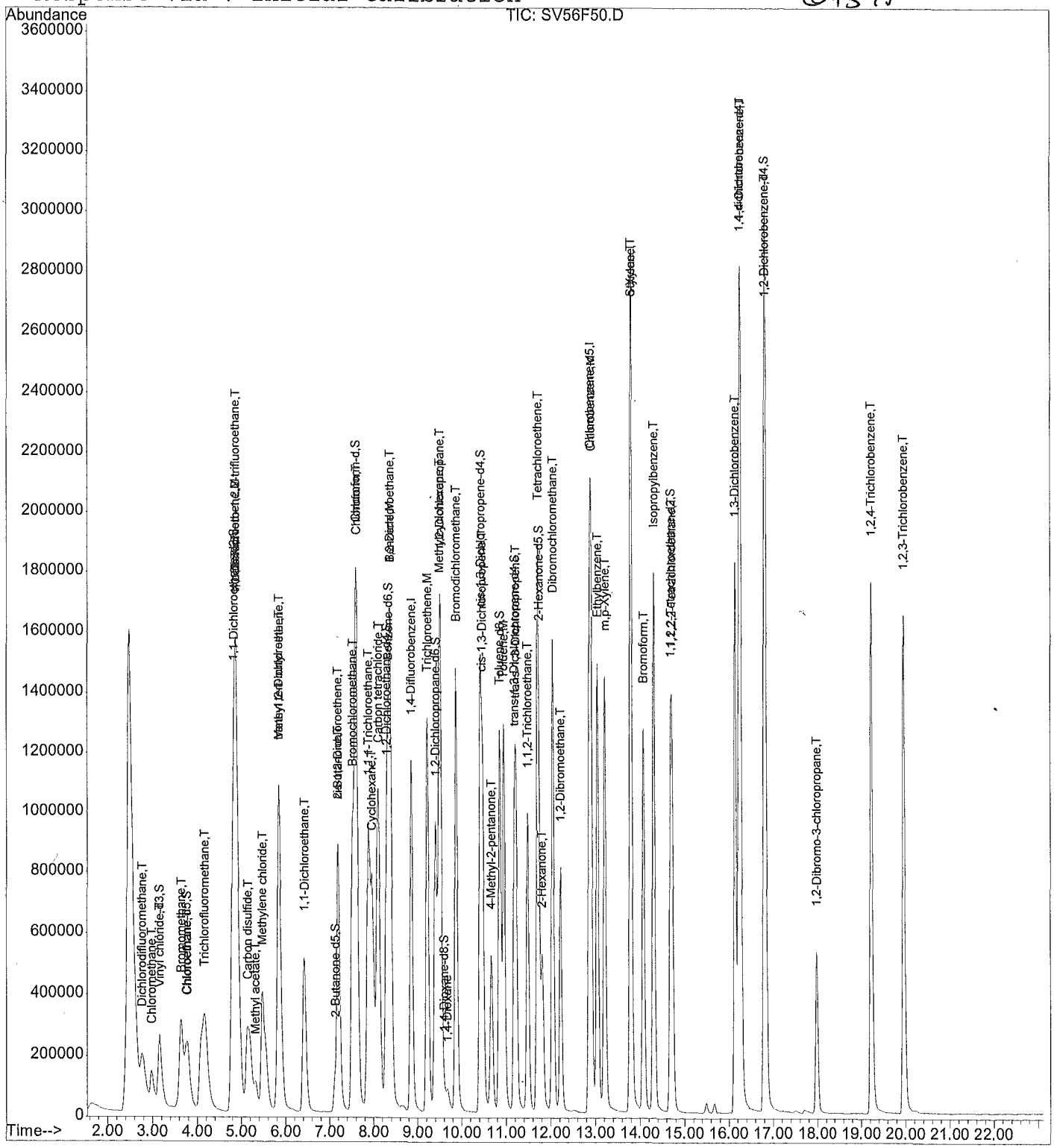
Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV56F50.D
Acq Time : 06/13/2015 16:07 Operator: CQC
Sample : VSTD050S4 VSTD050S4 50 ug/Kg CVS Inst : 5972-S
Misc : 2.5 uL of 28198, 28199 Multiplr: 1.00

Quant Time: Jun 13 16:30 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6.13.15



: 8236

Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV56F50.D
Acq Time : 06/13/2015 16:07 Operator: CQC
Sample : VSTD050S4 VSTD050S4 50 ug/Kg CVS Inst : 5972-S
Misc : 2.5 uL of 28198, 28199 Multiplr: 1.00

Quant Time: Jun 13 16:30 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	8.86	114	1856456	50.00	ug/Kg	140.63
30) Chlorobenzene-d5	12.87	117	1514475	50.00	ug/Kg	141.48
62) 1,4-dichlorobenzene-d4	16.24	152	919980	50.00	ug/Kg	151.21
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	3.16	65	434166	36.65	ug/Kg	73.30%
8) Chloroethane-d5	3.76	69	450669	39.98	ug/Kg	79.96%
11) 1,1-Dichloroethene-d2	4.82	63	1641197	42.02	ug/Kg	84.03%
22) 2-Butanone-d5	7.12	46	388278	120.75	ug/Kg	120.75%
25) Chloroform-d	7.59	84	1721640	45.00	ug/Kg	89.99%
27) 1,2-Dichloroethane-d4	8.29	65	843037	48.20	ug/Kg	96.41%
29) 1,4-Dioxane-d8	9.61	96	73947	1366.36	ug/Kg	136.64%
35) Benzene-d6	8.32	84	1706141	45.81	ug/Kg	91.62%
39) 1,2-Dichloropropane-d6	9.40	67	870595	47.46	ug/Kg	94.92%
42) cis-1,3-Dichloropropene-d4	10.42	79	1508221	49.08	ug/Kg	98.16%
44) trans-1,3-Dichloropropene-	11.18	79	912611	51.50	ug/Kg	103.01%
49) Toluene-d8	10.85	98	1610148	47.79	ug/Kg	95.58%
52) 2-Hexanone-d5	11.74	63	271960	115.80	ug/Kg	115.80%
61) 1,1,2,2-Tetrachloroethane-	14.68	84	1016883	53.75	ug/Kg	107.50%
67) 1,2-Dichlorobenzene-d4	16.80	152	855891	48.53	ug/Kg	97.06%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.77	85	702417	38.44	ug/Kg#	99
3) Chloromethane	2.98	50	401748	41.18	ug/Kg	99
4) Vinyl chloride	3.16	62	437602	43.03	ug/Kg	99
6) Bromomethane	3.63	94	671920	43.20	ug/Kg	99
7) Chloroethane	3.79	64	340734	44.19	ug/Kg	98
9) Trichlorofluoromethane	4.16	101	1483380	42.28	ug/Kg	100
10) 1,1-Dichloroethene	4.85	96	601782	45.19	ug/Kg	95
12) 1,1,2-Trichloro-1,2,2-trif	4.88	101	1488735	45.08	ug/Kg	98
13) Acetone	4.87	43	431801	124.78	ug/Kg	99
14) Carbon disulfide	5.15	76	1667853	42.09	ug/Kg	97
15) Methyl acetate	5.32	43	303593	53.31	ug/Kg	98
16) Methylene chloride	5.47	84	593968	45.71	ug/Kg	97
17) trans-1,2-Dichloroethene	5.85	96	671421	46.33	ug/Kg	98
18) Methyl tert-butyl ether	5.84	73	1123432	49.23	ug/Kg	99
19) 1,1-Dichloroethane	6.43	63	1284076	45.54	ug/Kg	99
20) cis-1,2-Dichloroethene	7.20	96	698386	47.27	ug/Kg	99
21) 2-Butanone	7.20	43	481446	119.74	ug/Kg	99
23) Bromochloromethane	7.52	128	479775	49.82	ug/Kg	89
24) Chloroform	7.62	83	1661583	46.74	ug/Kg	97

(#) = qualifier out of range (m) = manual integration

00237

Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV56F50.D
Acq Time : 06/13/2015 16:07 Operator: CQC
Sample : VSTD050S4 VSTD050S4 50 ug/Kg CVS Inst : 5972-S
Misc : 2.5 uL of 28198, 28199 Multiplr: 1.00

Quant Time: Jun 13 16:30 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	8.38	62	1001155	50.97 ug/Kg	96
28)	1,4-Dioxane	9.68	88	74816	1269.90 ug/Kg	95
31)	1,1,1-Trichloroethane	7.88	97	1477247	45.74 ug/Kg	99
32)	Cyclohexane	7.97	56	805059	45.78 ug/Kg	99
33)	Carbon tetrachloride	8.11	117	1561563	47.09 ug/Kg	96
34)	Benzene	8.37	78	1673528	47.90 ug/Kg#	96
36)	Trichloroethene	9.22	95	884779	48.79 ug/Kg	99
37)	Methylcyclohexane	9.49	55	770068	46.03 ug/Kg	99
38)	1,2-Dichloropropane	9.52	63	690166	49.84 ug/Kg	95
40)	Bromodichloromethane	9.87	83	1791363	48.71 ug/Kg	100
41)	cis-1,3-Dichloropropene	10.47	75	1137235	50.37 ug/Kg	98
43)	trans-1,3-Dichloropropene	11.22	75	973819	53.16 ug/Kg	98
45)	1,1,2-Trichloroethane	11.48	97	568895	53.72 ug/Kg	98
46)	Dibromochloromethane	12.04	129	1504229	53.35 ug/Kg	95
47)	4-Methyl-2-pentanone	10.67	43	828560	106.21 ug/Kg	98
48)	Toluene	10.94	91	1798945	49.32 ug/Kg	100
50)	Tetrachloroethene	11.71	164	731820	50.95 ug/Kg	99
51)	2-Hexanone	11.81	43	762270	113.41 ug/Kg	98
53)	1,2-Dibromoethane	12.22	107	1027271	55.23 ug/Kg	99
54)	Chlorobenzene	12.91	112	1476615	49.82 ug/Kg	99
55)	Ethylbenzene	13.05	91	2148949	48.98 ug/Kg	100
56)	m,p-Xylene	13.22	106	786519	48.96 ug/Kg	99
57)	o-Xylene	13.79	106	839025	50.20 ug/Kg	99
58)	Styrene	13.80	104	1408488	50.87 ug/Kg	97
59)	Isopropylbenzene	14.31	105	2492995	49.98 ug/Kg	98
60)	1,1,2,2-Tetrachloroethane	14.72	83	976989	54.61 ug/Kg	99
63)	Bromoform	14.08	173	1014331	54.29 ug/Kg	100
64)	1,3-Dichlorobenzene	16.14	146	1294361	49.96 ug/Kg	98
65)	1,4-Dichlorobenzene	16.27	146	1411240	51.01 ug/Kg	97
66)	1,2-Dichlorobenzene	16.83	146	1320182	50.32 ug/Kg	98
68)	1,2-Dibromo-3-chloropropan	17.98	75	267097	54.67 ug/Kg	97
69)	1,2,4-Trichlorobenzene	19.23	180	969214	49.88 ug/Kg	99
70)	1,2,3-Trichlorobenzene	19.97	180	879825	50.90 ug/Kg	98

(#) = qualifier out of range (m) = manual integration

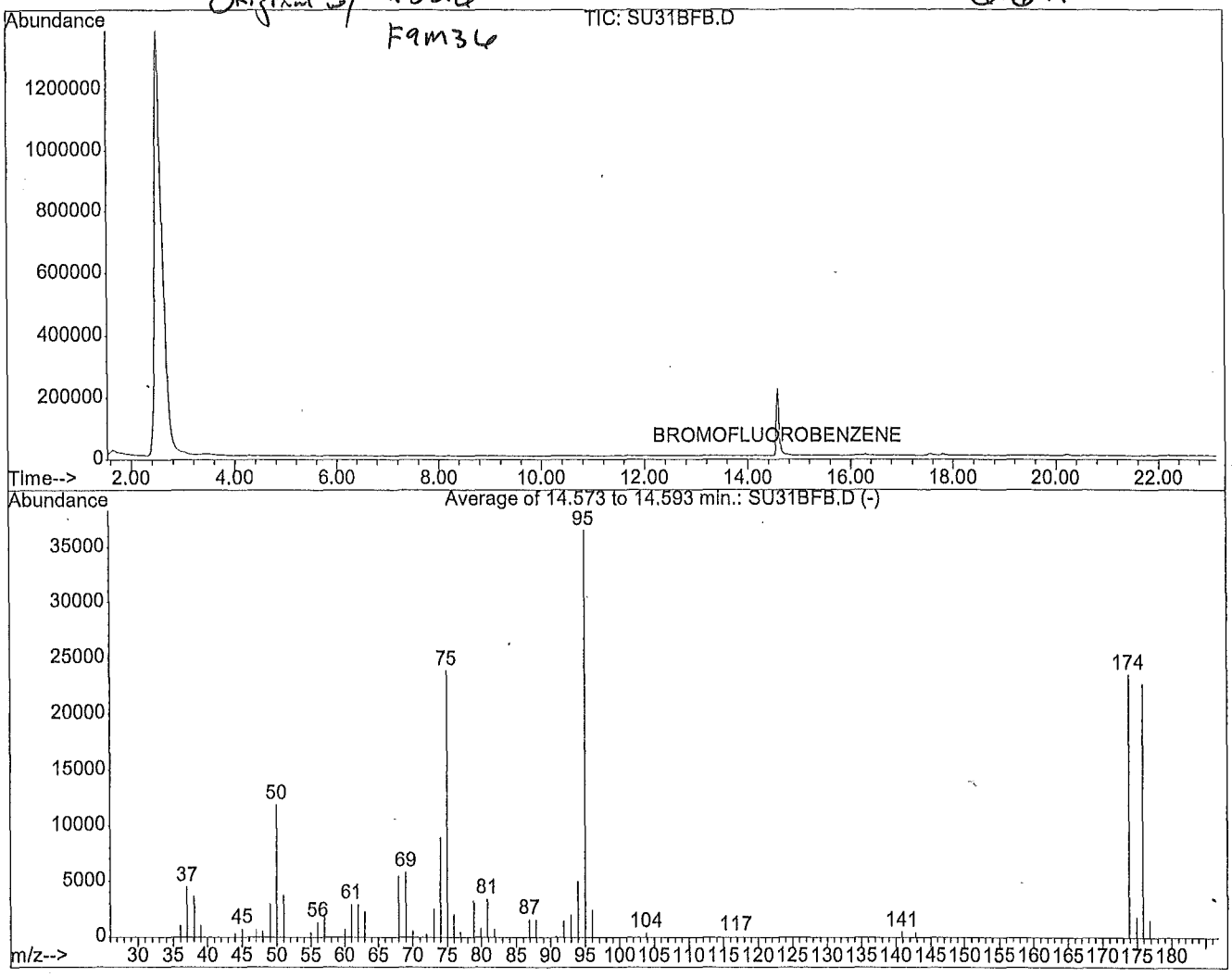
00239

SOM01.1 BFB

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU31BFB.D
Acq Time : 06/04/2015 19:46 Operator: CQC
Sample : BFBSS 50 ng BFB Inst : 5972-S
Misc : 2.0 uL of 27660 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\BFB_SOM.M (RTE Integrator)
Title :

Original w/ 45316 F9m36 6.6.15



Peak Apex is scan: 1326
Average of 3 Scans: 1325,1326,1327 minus Background scan: 1318

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	32.6	11914	PASS
75	95	30	80	65.3	23885	PASS
95	95	100	100	100.0	36560	PASS
96	95	5	9	6.7	2460	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	64.4	23539	PASS
175	174	5	9	7.9	1859	PASS
176	174	95	101	96.5	22715	PASS
177	176	5	9	7.0	1580	PASS

BFBSS 50 ng BFB 5972-S 06/04/2015 19:46 5972-S

Data File : D:\HPCHEM\1\DATA\04JUN15S\SU31BFB.D
Inject Time: 06/04/2015 19:46 Operator:CQC
Sample : BFBSS 5 Inst :5972-S
Misc : 2.0 uL of 27660

Average of 14.573 to 14.593 min.: SU31BFB.D
BFBSS 50 ng BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1055	55.00	454	73.00	2534	87.95	1607
37.00	4528	56.00	1356	74.00	8961	90.80	130
38.05	3647	57.00	2068	75.00	23885	91.90	1492
39.00	1043	60.00	716	75.95	2033	92.95	1985
44.00	322	61.00	2930	76.95	509	94.00	5027
45.00	737	62.00	2923	78.10	120	95.00	36560
47.00	697	63.00	2315	78.90	3293	96.00	2460
47.95	512	68.00	5535	79.90	804	103.85	424
49.00	2997	69.00	5828	80.85	3412	116.80	124
50.00	11914	70.00	598	81.85	725	140.85	511
51.00	3755	71.95	260	86.90	1630	142.80	473

Average of 14.573 to 14.593 min.: SU31BFB.D
BFBSS 50 ng BFB
Modified:subtracted

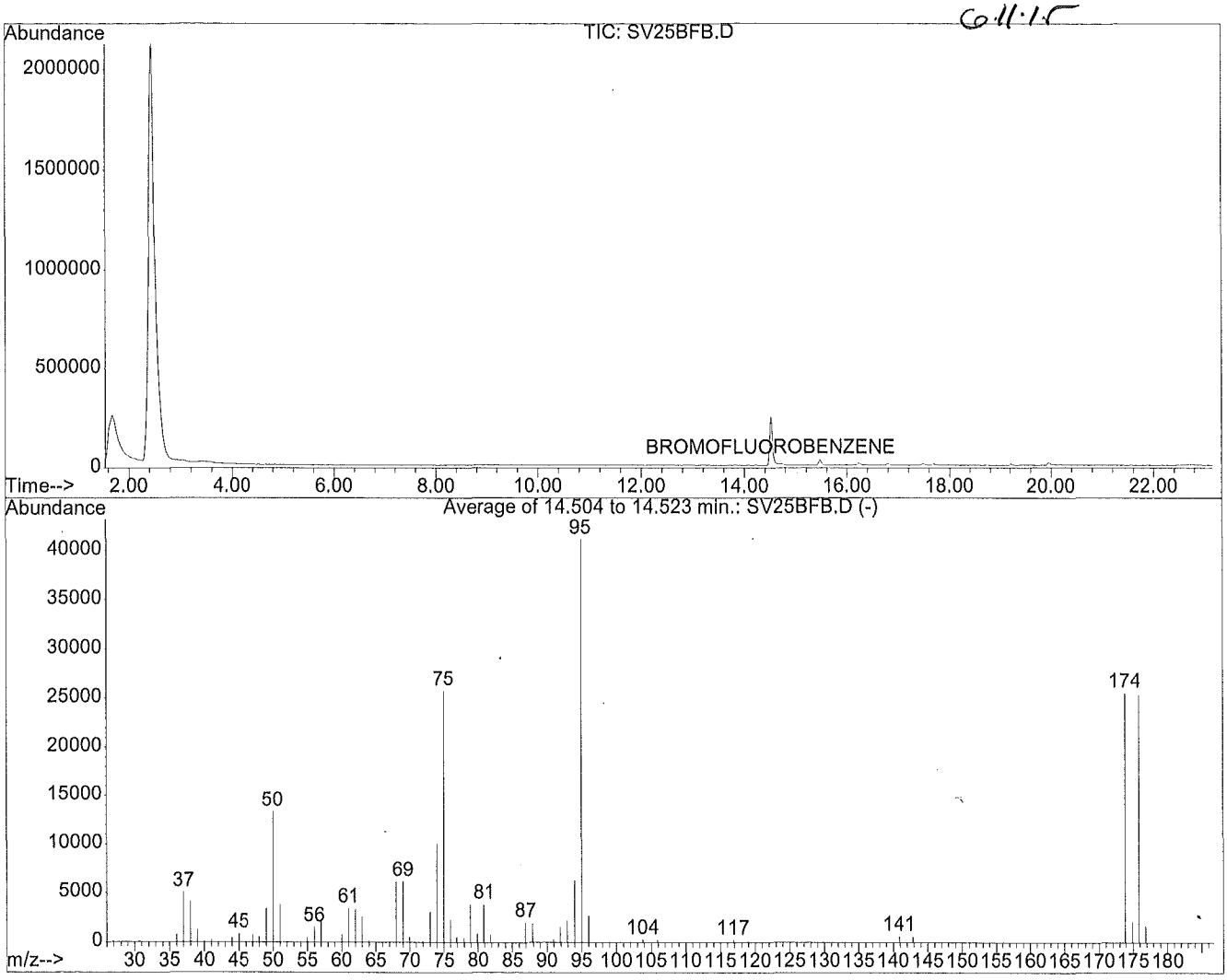
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
173.85	23539						
174.90	1859						
175.85	22715						
176.85	1580						

SOM01.1 BFB

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV25BFB.D
Acq Time : 06/11/2015 16:25 Operator: CQC
Sample : BFBS1 50 ng BFB Inst : 5972-S
Misc : 2.0 uL of 28268 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\BFB_SOM.M (RTE Integrator)
Title :

6.11.15



Peak Apex is scan: 1319
Average of 3 Scans: 1318,1319,1320 minus Background scan: 1311

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	32.4	13347	PASS
75	95	30	80	62.7	25784	PASS
95	95	100	100	100.0	41139	PASS
96	95	5	9	6.6	2701	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	62.1	25563	PASS
175	174	5	9	8.0	2044	PASS
176	174	95	101	99.3	25379	PASS
177	176	5	9	6.5	1661	PASS

BFBS1 50 ng BFB 5972-S 06/11/2015 16:25 5972-S

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV25BFB.D
Inject Time: 06/11/2015 16:25 Operator:CQC
Sample : BFBS1 5 Inst :5972-S
Misc : 2.0 uL of 28268

Average of 14.504 to 14.523 min.: SV25BFB.D
BFBS1 50 ng BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	765	50.00	13347	68.00	6118	79.90	905
37.00	5035	51.00	3777	69.00	6153	80.85	3813
38.00	4135	54.95	445	69.95	556	81.85	838
39.00	1278	56.00	1508	71.90	131	86.90	1964
40.00	102	57.00	2207	73.00	3046	87.90	1889
41.05	248	60.00	758	74.00	10029	90.90	244
44.00	458	61.00	3421	75.00	25784	91.90	1524
45.00	852	62.00	3288	76.00	2280	92.90	2203
47.05	731	63.00	2568	76.90	562	94.00	6254
47.95	563	64.00	146	77.95	410	95.00	41139
49.00	3420	67.00	118	78.90	3837	96.00	2701

Average of 14.504 to 14.523 min.: SV25BFB.D
BFBS1 50 ng BFB
Modified:subtracted

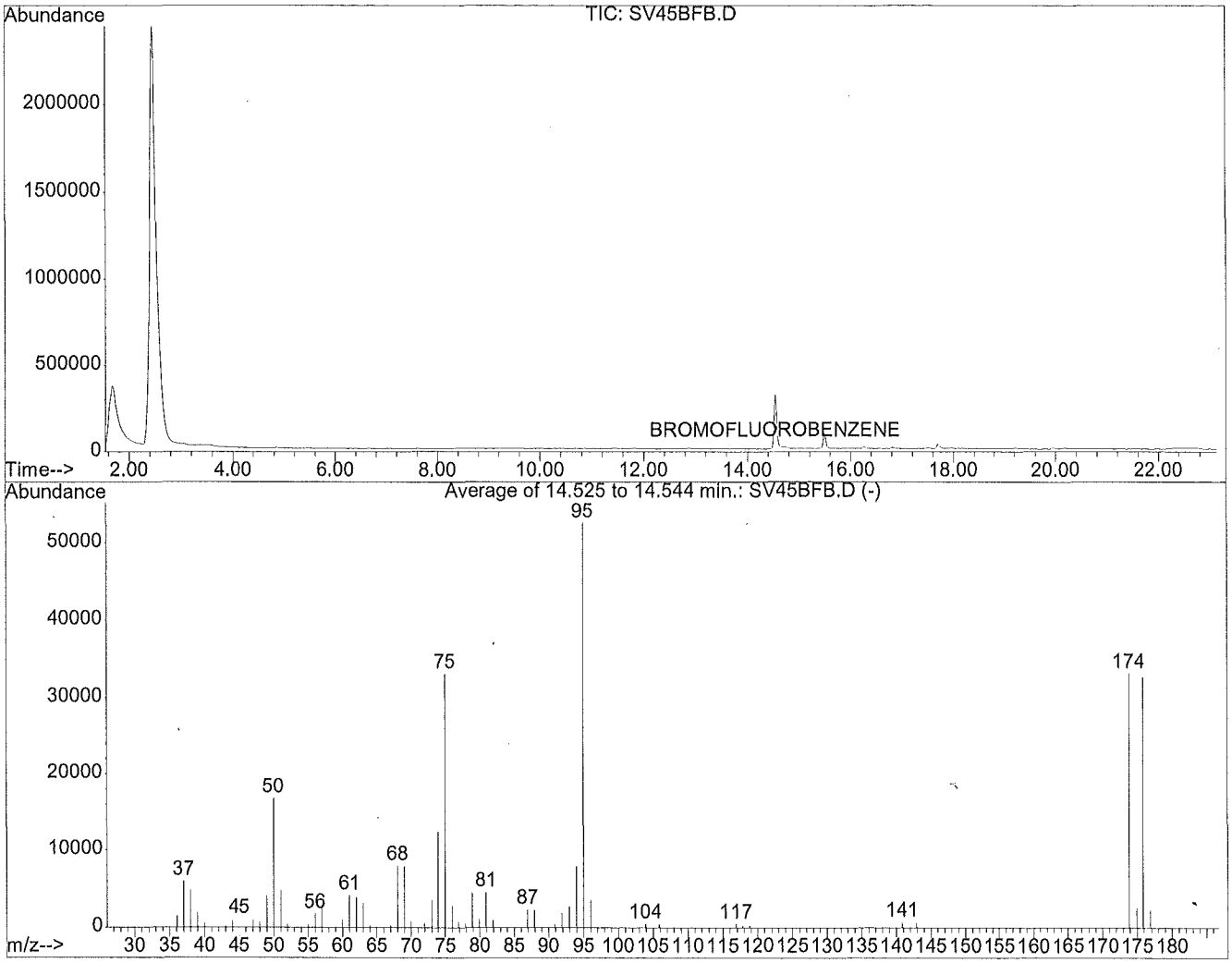
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
103.80	278						
105.90	264						
116.85	243						
118.90	126						
140.90	609						
142.85	573						
173.85	25563						
174.90	2044						
175.85	25379						
176.85	1661						

SOM01.1 BFB

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV45BFB.D
Acq Time : 06/13/2015 10:24 Operator: CQC
Sample : BFBS2 50 ng BFB Inst : 5972-S
Misc : 2.0 uL of 28268 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\BFB_SOM.M (RTE Integrator)
Title :

6.13.15



Peak Apex is scan: 1321
Average of 3 Scans: 1320,1321,1322 minus Background scan: 1313

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	31.9	16795	PASS
75	95	30	80	62.9	33099	PASS
95	95	100	100	100.0	52624	PASS
96	95	5	9	6.7	3533	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	63.0	33139	PASS
175	174	5	9	7.6	2523	PASS
176	174	95	101	98.7	32715	PASS
177	176	5	9	6.7	2204	PASS

BFBS2 50 ng BFB 5972-S 06/13/2015 10:24 5972-S

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV45BFB.D
Inject Time: 06/13/2015 10:24 Operator:CQC
Sample : BFBS2 5 Inst :5972-S
Misc : 2.0 uL of 28268

Average of 14.525 to 14.544 min.: SV45BFB.D
BFBS2 50 ng BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	1483	50.00	16795	64.90	131	77.90	437
37.00	5976	51.00	4765	67.00	280	78.90	4502
38.00	4814	51.95	425	68.00	7966	79.90	1063
39.00	1853	55.00	308	69.00	7916	80.90	4534
40.00	503	56.00	1767	70.00	796	81.90	1026
43.00	181	57.00	3015	71.95	544	86.90	2346
44.00	864	59.95	1011	73.00	3596	87.90	2306
45.00	1049	61.00	4154	74.00	12353	90.85	443
47.05	964	62.00	3893	75.00	33099	91.90	1921
48.00	697	63.00	3140	76.00	2824	92.95	2758
49.00	4023	64.00	296	76.90	760	93.95	7980

Average of 14.525 to 14.544 min.: SV45BFB.D
BFBS2 50 ng BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.00	52624	175.85	32715				
96.00	3533	176.85	2204				
103.90	468						
105.85	414						
116.85	502						
117.80	248						
118.80	286						
140.85	709						
142.85	639						
173.85	33139						
174.90	2523						

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 451272

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SV27BLK

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 06/11/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	0.28	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 451272

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SV27BLK

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 06/11/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	0.30	J
106-46-7	1,4-Dichlorobenzene	0.37	J
95-50-1	1,2-Dichlorobenzene	0.35	J
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	0.74	J
87-61-6	1,2,3-Trichlorobenzene	1.1	J

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 451272

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SV27BLK

Level: (TRACE or LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 06/11/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

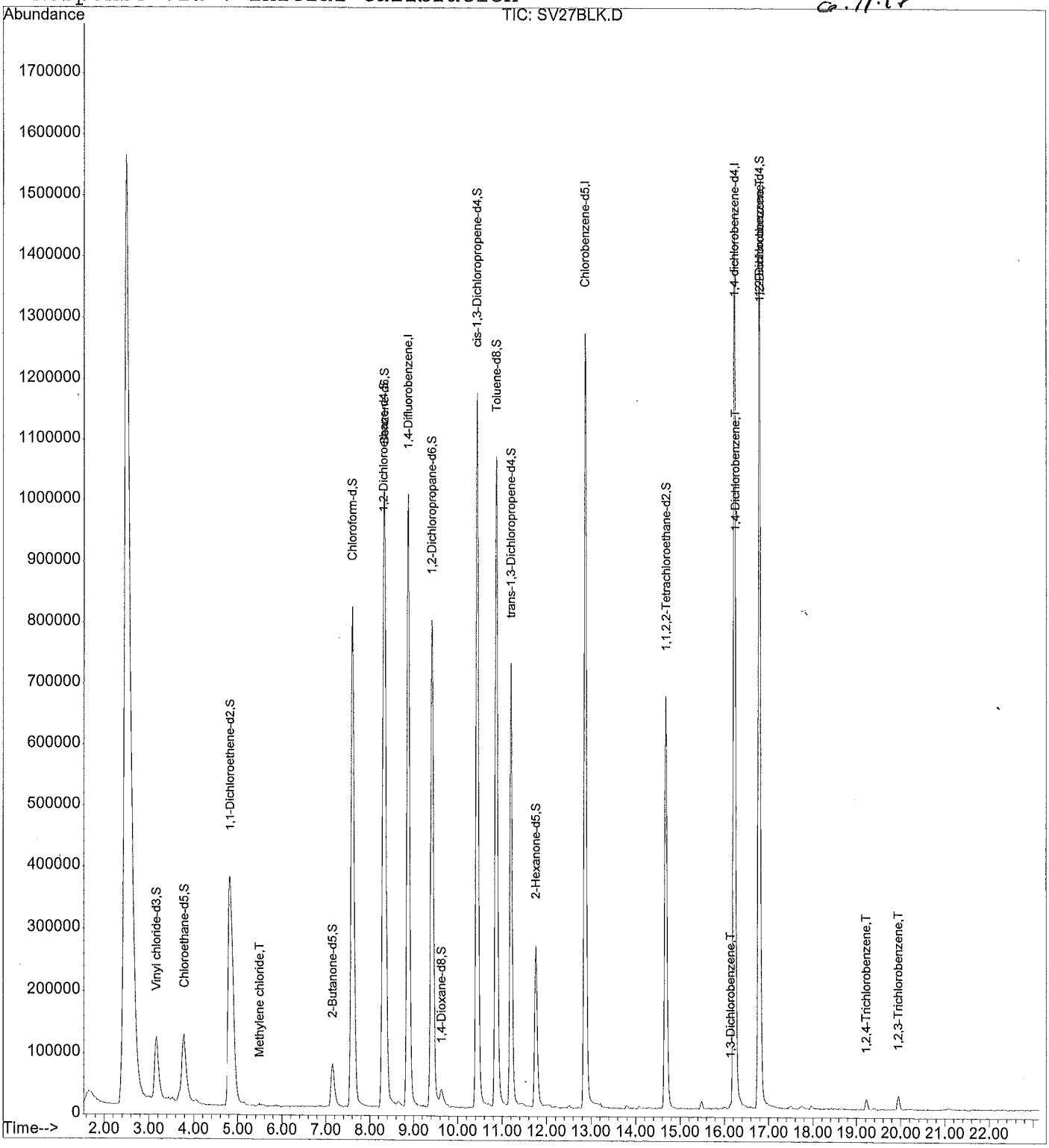
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV27BLK.D
Acq Time : 06/11/2015 17:27 Operator: CQC
Sample : 451272 VBLKS1 Inst : 5972-S
Misc : 2.5 uL of 28198 Multiplr: 1.00

Quant Time: Jun 11 17:53 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6.11.15



00249

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV27BLK.D
Acq Time : 06/11/2015 17:27 Operator: CQC
Sample : 451272 VBLKS1 Inst : 5972-S
Misc : 2.5 uL of 28198 Multiplr: 1.00

Quant Time: Jun 11 17:53 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.87	114	1555622	50.00 ug/Kg	117.84
30) Chlorobenzene-d5	12.87	117	1209038	50.00 ug/Kg	112.95
62) 1,4-dichlorobenzene-d4	16.23	152	681447	50.00 ug/Kg	112.01
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.17	65	424538	42.77 ug/Kg	85.53%
8) Chloroethane-d5	3.78	69	416737	44.12 ug/Kg	88.24%
11) 1,1-Dichloroethene-d2	4.82	63	1134487	34.66 ug/Kg	69.32%
22) 2-Butanone-d5	7.15	46	247982	92.03 ug/Kg	92.03%
25) Chloroform-d	7.61	84	1442889	45.00 ug/Kg	90.01%
27) 1,2-Dichloroethane-d4	8.30	65	671122	45.79 ug/Kg	91.59%
29) 1,4-Dioxane-d8	9.63	96	43873	967.43 ug/Kg	96.74%
35) Benzene-d6	8.34	84	1479383	49.76 ug/Kg	99.51%
39) 1,2-Dichloropropane-d6	9.42	67	686892	46.91 ug/Kg	93.81%
42) cis-1,3-Dichloropropene-d4	10.44	79	1239192	50.51 ug/Kg	101.02%
44) trans-1,3-Dichloropropene-	11.20	79	707316	50.00 ug/Kg	100.00%
49) Toluene-d8	10.87	98	1341235	49.86 ug/Kg	99.73%
52) 2-Hexanone-d5	11.76	63	190905	101.82 ug/Kg	101.82%
61) 1,1,2,2-Tetrachloroethane-	14.68	84	700025	46.35 ug/Kg	92.70%
67) 1,2-Dichlorobenzene-d4	16.79	152	645626	49.42 ug/Kg	98.85%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	0.00	43		Not Detected	
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.49	84	3074	0.28 ug/Kg#	45
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15S\SV27BLK.D
Acq Time : 06/11/2015 17:27 Operator: CQC
Sample : 451272 VBLKS1 Inst : 5972-S
Misc : 2.5 uL of 28198 Multiplr: 1.00

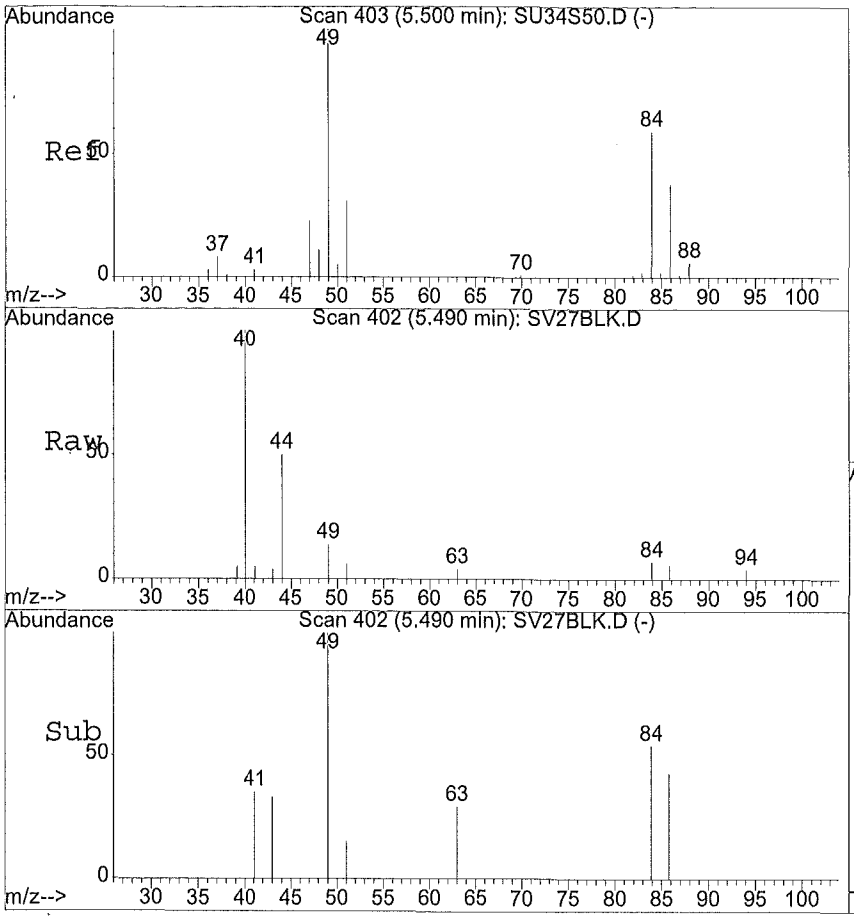
Quant Time: Jun 11 17:53 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	0.00	91		Not Detected	
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	16.13	146	5820	0.30 ug/Kg#	58
65)	1,4-Dichlorobenzene	16.26	146	7583	0.37 ug/Kg#	1
66)	1,2-Dichlorobenzene	16.81	146	6765	0.35 ug/Kg#	1
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	19.22	180	10637	0.74 ug/Kg	95
70)	1,2,3-Trichlorobenzene	19.95	180	13594	1.06 ug/Kg	96

(#) = qualifier out of range (m) = manual integration

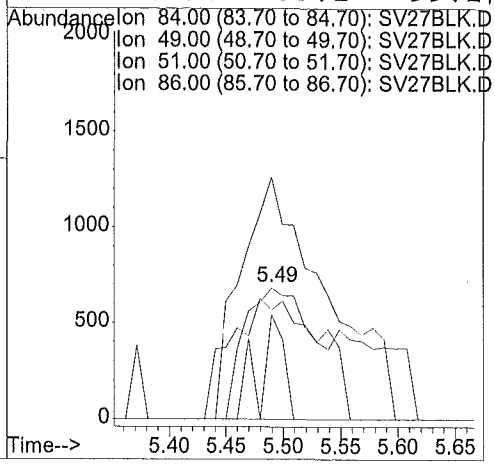
00250

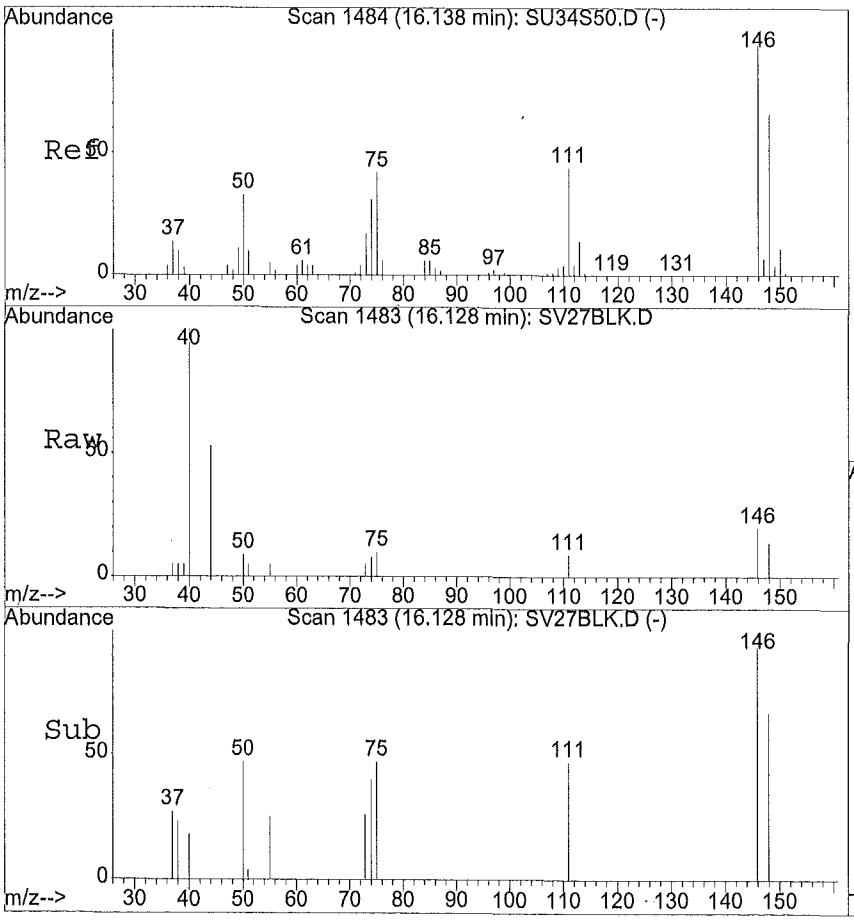


#16
Methylene chloride
Concen: 0.28 ug/Kg
RT: 5.49 min Scan# 402
Delta R.T. -0.01 min
Lab File: SV27BLK.D
Acq: 06/11/2015 17:27

Tgt Ion:84 Resp: 3074

Ion	Ratio	Lower	Upper
84	100		
49	212.7	85.4	256.1
51	152.7	26.8	80.4#
86	26.2	33.1	99.2#

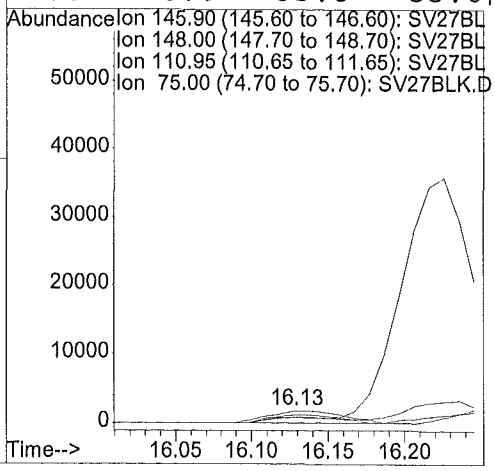


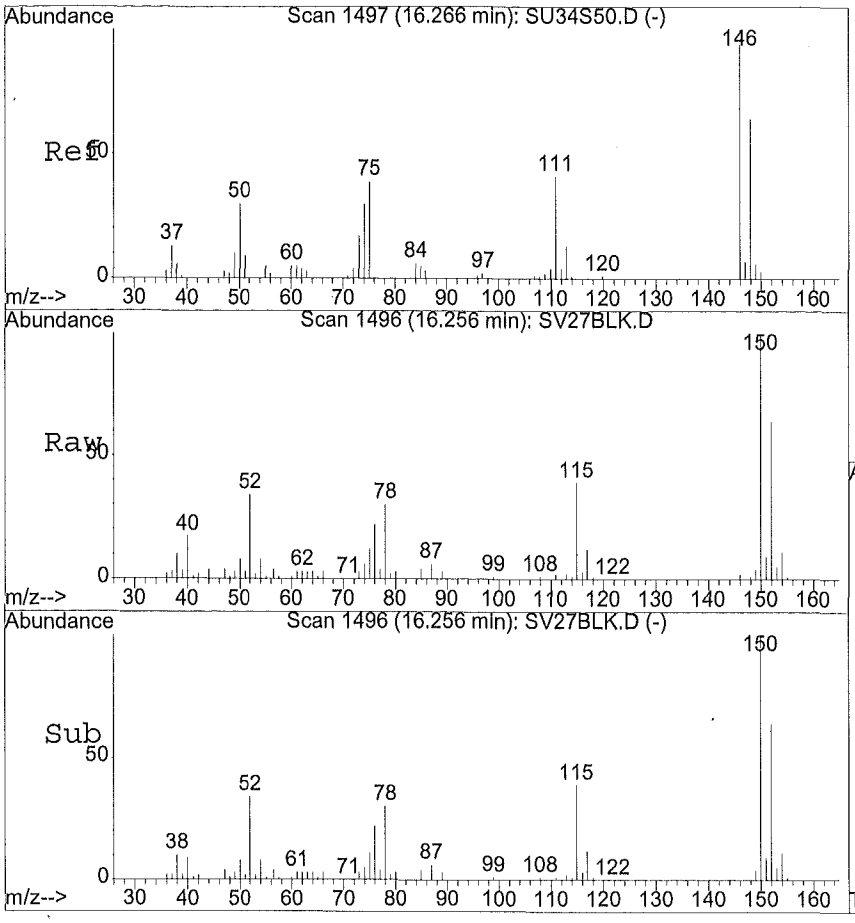


#64
1,3-Dichlorobenzene
Concen: 0.30 ug/Kg
RT: 16.13 min Scan# 1483
Delta R.T. -0.01 min
Lab File: SV27BLK.D
Acq: 06/11/2015 17:27

Tgt Ion:145.9 Resp: 5820

Ion	Ratio	Lower	Upper
146	100		
148	60.4	51.8	77.6
111	0.0	35.9	53.9#
75	0.0	35.8	53.6#

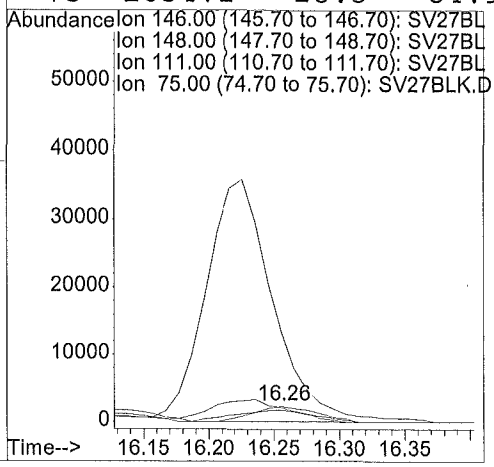


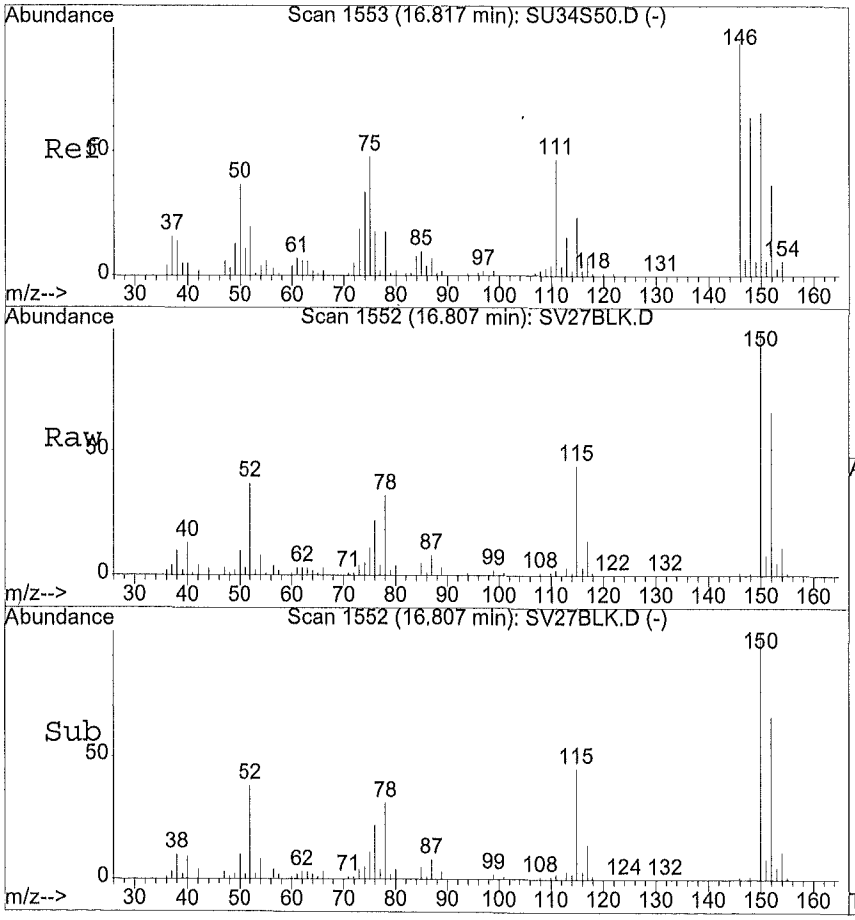


#65
1,4-Dichlorobenzene
Concen: 0.37 ug/Kg
RT: 16.26 min Scan# 1496
Delta R.T. -0.01 min
Lab File: SV27BLK.D
Acq: 06/11/2015 17:27

Tgt Ion:146 Resp: 7583

Ion	Ratio	Lower	Upper
146	100		
148	93.5	32.2	96.6
111	172.9	21.9	65.5#
75	1654.1	28.3	84.9#

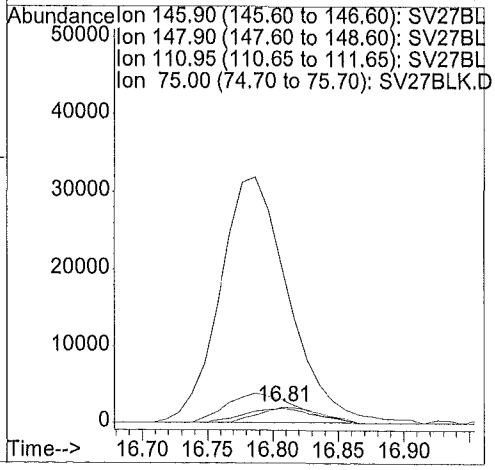




#66
1,2-Dichlorobenzene
Concen: 0.35 ug/Kg
RT: 16.81 min Scan# 1552
Delta R.T. -0.01 min
Lab File: SV27BLK.D
Acq: 06/11/2015 17:27

Tgt Ion:145.9 Resp: 6765

Ion	Ratio	Lower	Upper
146	100		
148	105.0	52.6	78.8#
111	214.7	38.3	57.5#
75	1751.6	44.5	66.7#



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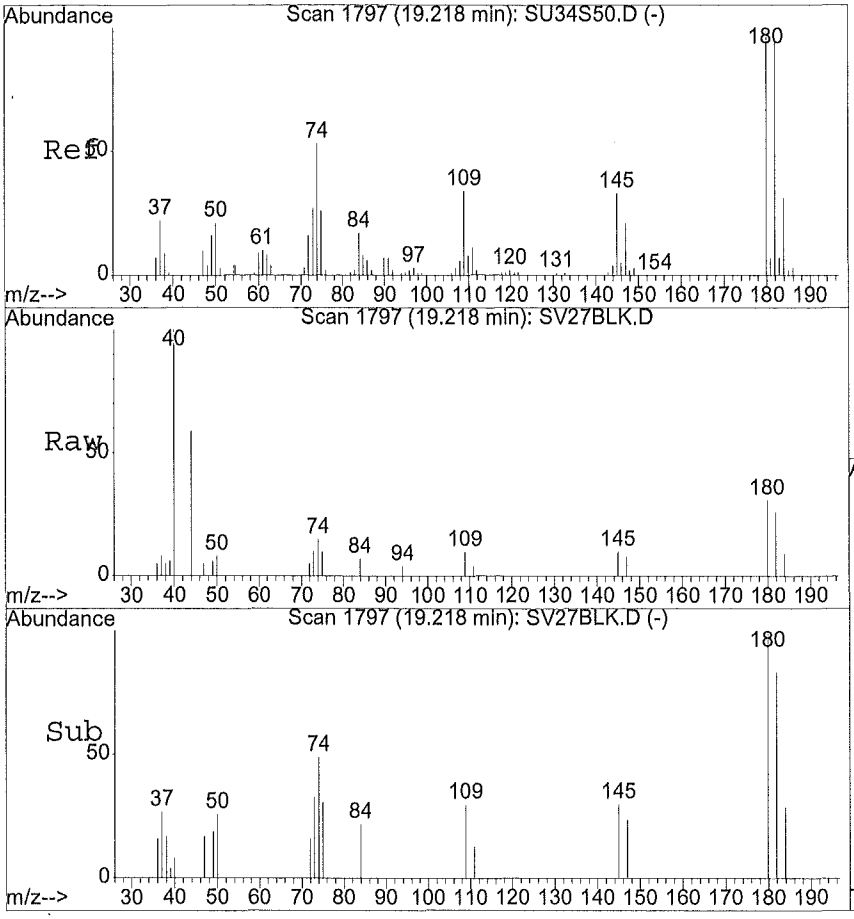
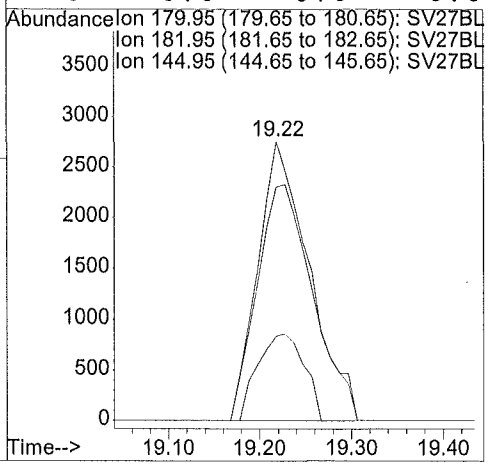
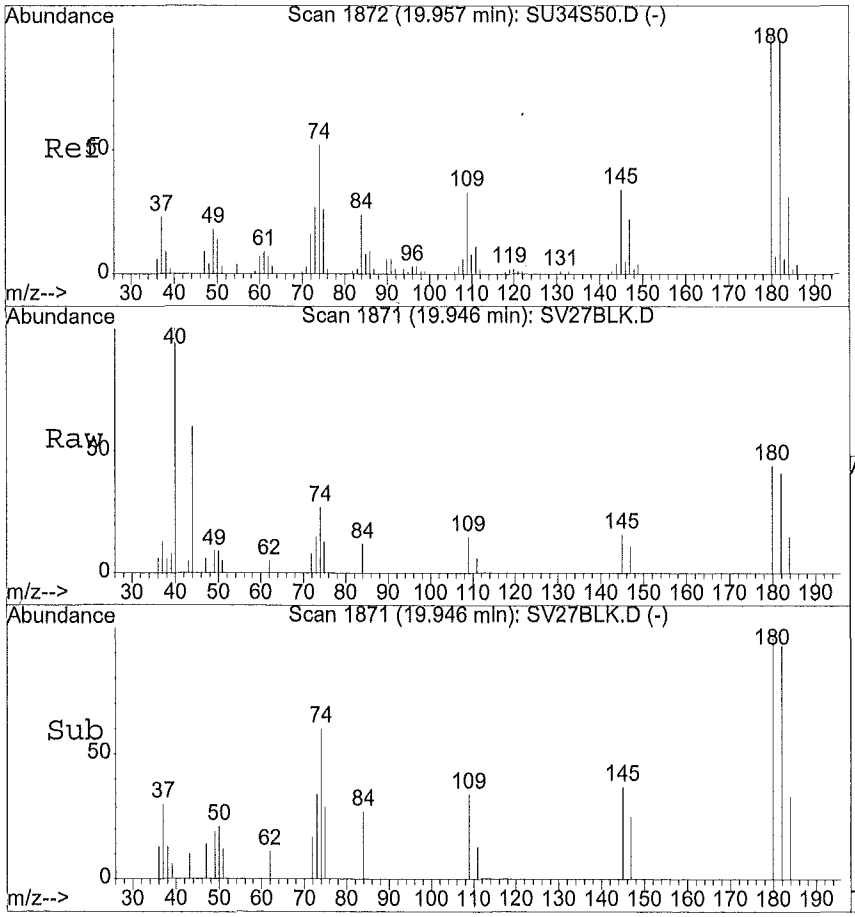


#69
1,2,4-Trichlorobenzene
Concen: 0.74 ug/Kg
RT: 19.22 min Scan# 1797
Delta R.T. -0.00 min
Lab File: SV27BLK.D
Acq: 06/11/2015 17:27

Tgt Ion:179.95 Resp: 10637

Ion	Ratio	Lower	Upper
180	100		
182	92.5	76.8	115.2
145	28.6	26.5	39.7
0	0.0	0.0	0.0

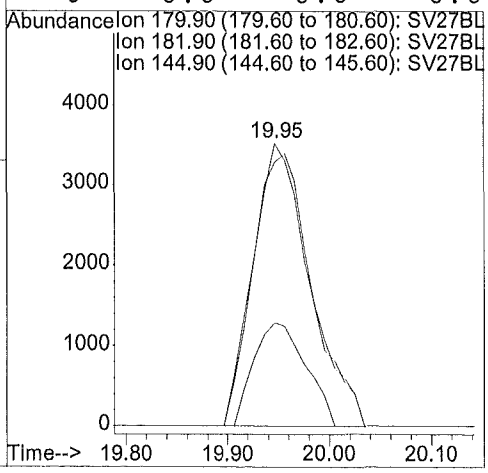




#70
1,2,3-Trichlorobenzene
Concen: 1.06 ug/Kg
RT: 19.95 min Scan# 1871
Delta R.T. -0.01 min
Lab File: SV27BLK.D
Acq: 06/11/2015 17:27

Tgt Ion:179.9 Resp: 13594

Ion	Ratio	Lower	Upper
180	100		
182	99.7	76.4	114.6
145	33.7	27.8	41.8
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKS2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 451273

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SV47BLK

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 06/13/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	0.36	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKS2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 451273

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SV47BLK

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 06/13/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	0.35	J
106-46-7	1,4-Dichlorobenzene	0.42	J
95-50-1	1,2-Dichlorobenzene	0.42	J
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	0.74	J
87-61-6	1,2,3-Trichlorobenzene	1.1	J

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKS2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 451273

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SV47BLK

Level: (TRACE or LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 06/13/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV47BLK.D
Acq Time : 06/13/2015 11:25
Sample : 451273 VBLKS2
Misc : 2.5 uL of 28198

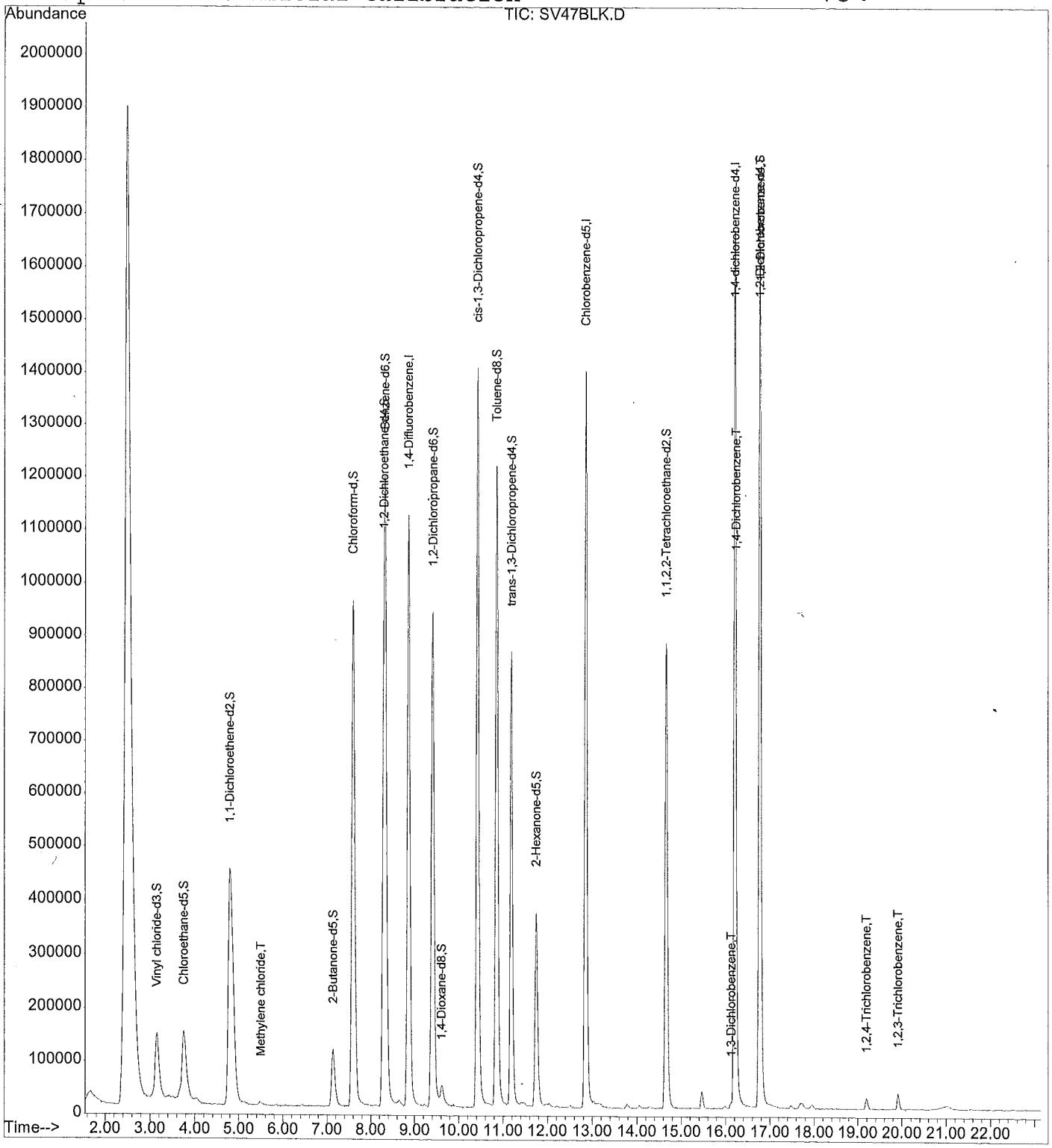
Operator: CQC
Inst : 5972-S
Multiplr: 1.00

Quant Time: Jun 13 11:54 2015

Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6.13.15



: 00257

Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV47BLK.D
Acq Time : 06/13/2015 11:25 Operator: CQC
Sample : 451273 VBLKS2 Inst : 5972-S
Misc : 2.5 uL of 28198 Multiplr: 1.00

Quant Time: Jun 13 11:54 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.86	114	1743978	50.00 ug/Kg	132.11
30) Chlorobenzene-d5	12.86	117	1365093	50.00 ug/Kg	127.53
62) 1,4-dichlorobenzene-d4	16.21	152	788804	50.00 ug/Kg	129.65
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.15	65	520731	46.79 ug/Kg	93.58%
8) Chloroethane-d5	3.76	69	500541	47.27 ug/Kg	94.54%
11) 1,1-Dichloroethene-d2	4.81	63	1334517	36.37 ug/Kg	72.74%
22) 2-Butanone-d5	7.14	46	358322	118.62 ug/Kg	118.62%
25) Chloroform-d	7.59	84	1700927	47.32 ug/Kg	94.64%
27) 1,2-Dichloroethane-d4	8.29	65	839034	51.07 ug/Kg	102.14%
29) 1,4-Dioxane-d8	9.62	96	60673	1193.39 ug/Kg	119.34%
35) Benzene-d6	8.33	84	1732884	51.62 ug/Kg	103.24%
39) 1,2-Dichloropropane-d6	9.41	67	819325	49.55 ug/Kg	99.11%
42) cis-1,3-Dichloropropene-d4	10.43	79	1507396	54.42 ug/Kg	108.84%
44) trans-1,3-Dichloropropene-	11.18	79	881144	55.17 ug/Kg	110.34%
49) Toluene-d8	10.86	98	1568498	51.65 ug/Kg	103.29%
52) 2-Hexanone-d5	11.74	63	258229	121.98 ug/Kg	121.98%
61) 1,1,2,2-Tetrachloroethane-	14.66	84	925421	54.27 ug/Kg	108.54%
67) 1,2-Dichlorobenzene-d4	16.77	152	792957	52.44 ug/Kg	104.88%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	0.00	43		Not Detected	
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.51	84	4393	0.36 ug/Kg#	69
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV47BLK.D
Acq Time : 06/13/2015 11:25 Operator: CQC
Sample : 451273 VBLKS2 Inst : 5972-S
Misc : 2.5 uL of 28198 Multiplr: 1.00

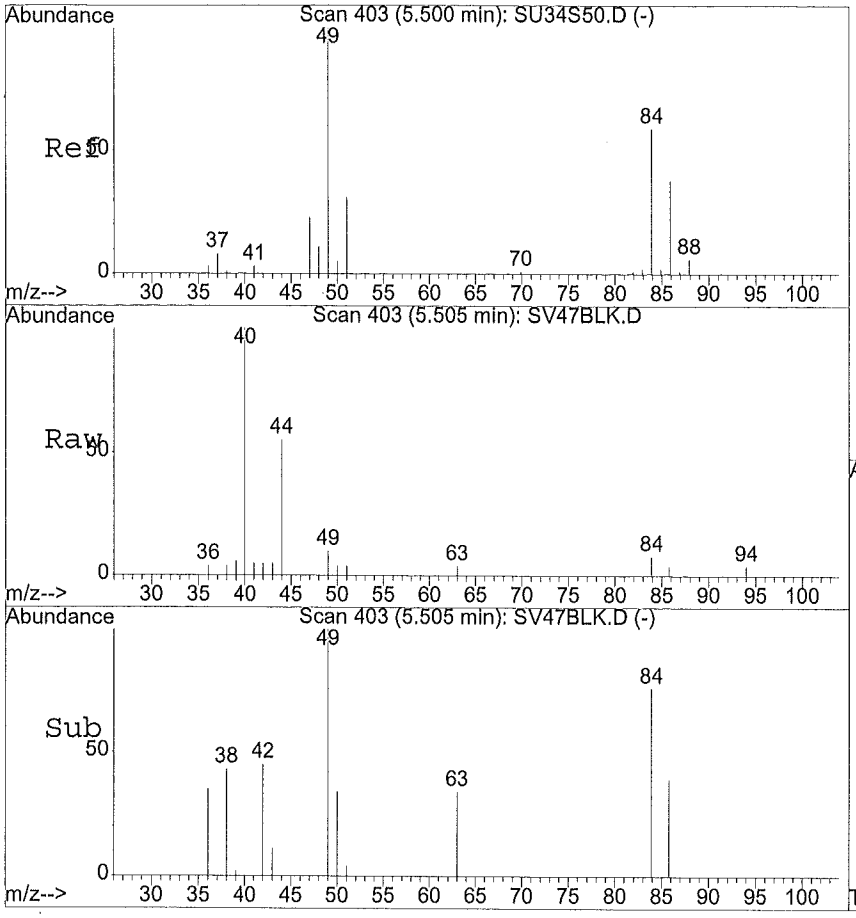
Quant Time: Jun 13 11:54 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	0.00	91		Not Detected	
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	16.12	146	7722	0.35 ug/Kg#	1
65)	1,4-Dichlorobenzene	16.24	146	10015	0.42 ug/Kg#	1
66)	1,2-Dichlorobenzene	16.79	146	9427	0.42 ug/Kg#	1
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	19.19	180	12315	0.74 ug/Kg	94
70)	1,2,3-Trichlorobenzene	19.91	180	16402	1.11 ug/Kg	98

(#) = qualifier out of range (m) = manual integration

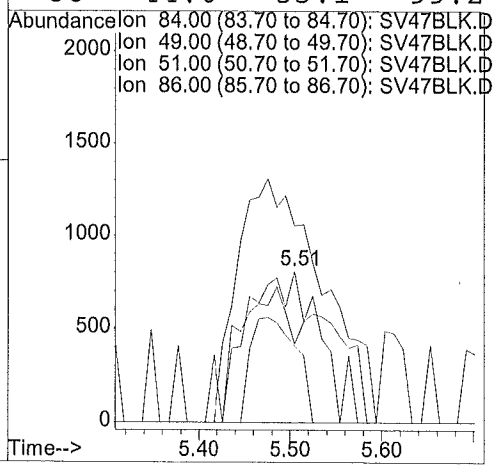
00259

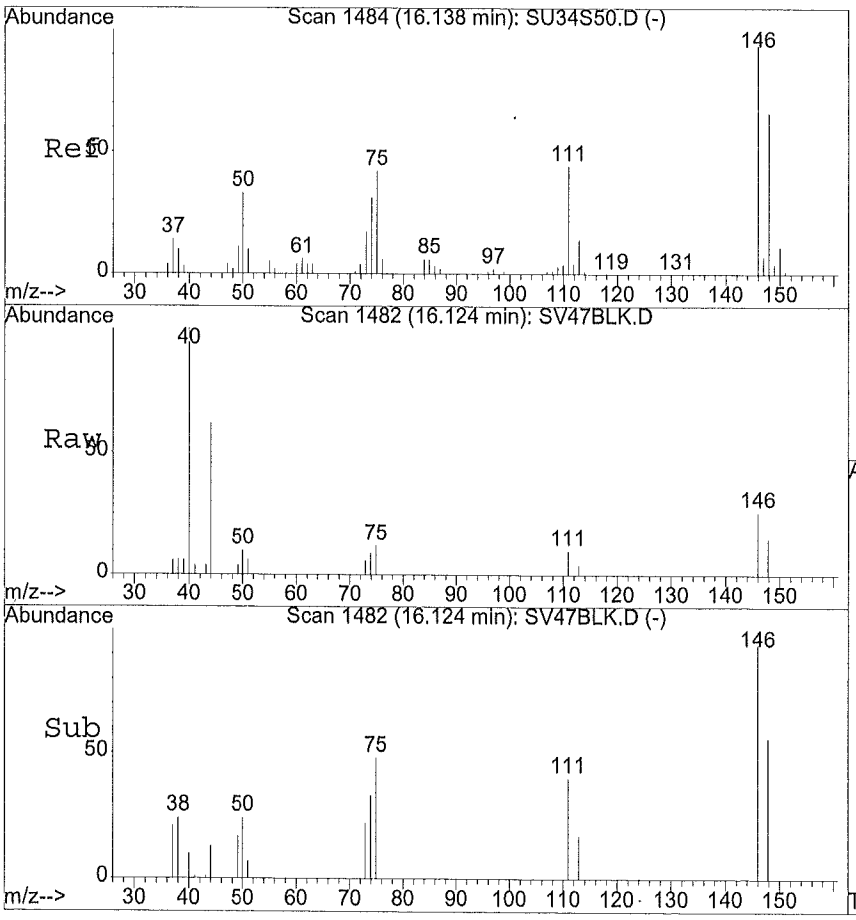


#16
Methylene chloride
Concen: 0.36 ug/Kg
RT: 5.51 min Scan# 403
Delta R.T. 0.01 min
Lab File: SV47BLK.D
Acq: 06/13/2015 11:25

Tgt Ion:84 Resp: 4393

Ion	Ratio	Lower	Upper
84	100		
49	193.2	85.4	256.1
51	113.2	26.8	80.4#
86	44.0	33.1	99.2

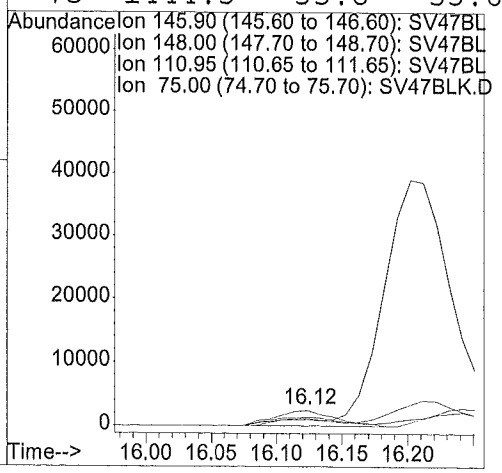


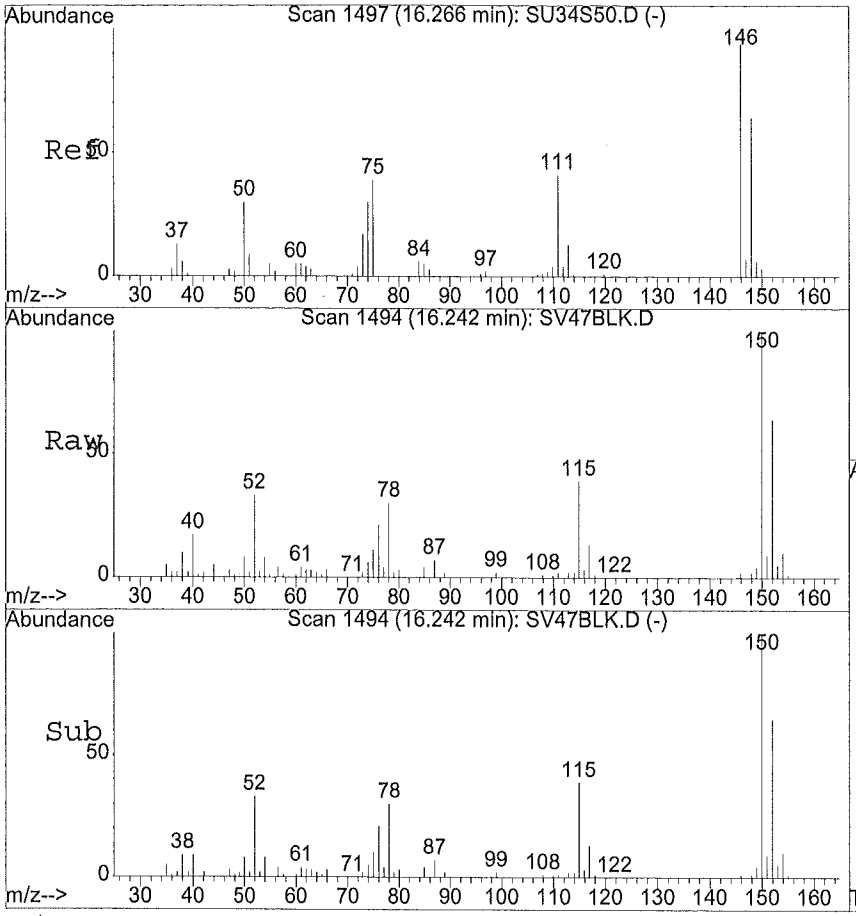


#64
1,3-Dichlorobenzene
Concen: 0.35 ug/Kg
RT: 16.12 min Scan# 1482
Delta R.T. -0.01 min
Lab File: SV47BLK.D
Acq: 06/13/2015 11:25

Tgt Ion:145.9 Resp: 7722

Ion	Ratio	Lower	Upper
146	100		
148	62.7	51.8	77.6
111	46.2	35.9	53.9
75	1444.5	35.8	53.6#

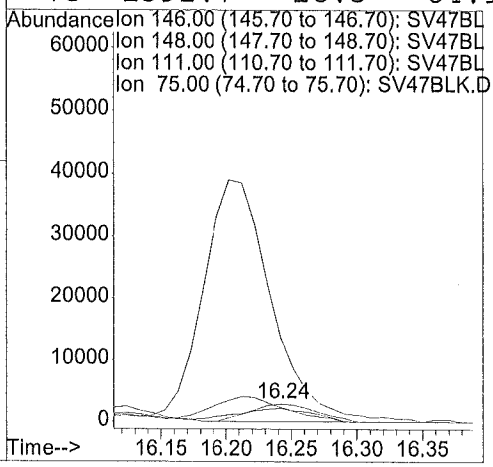


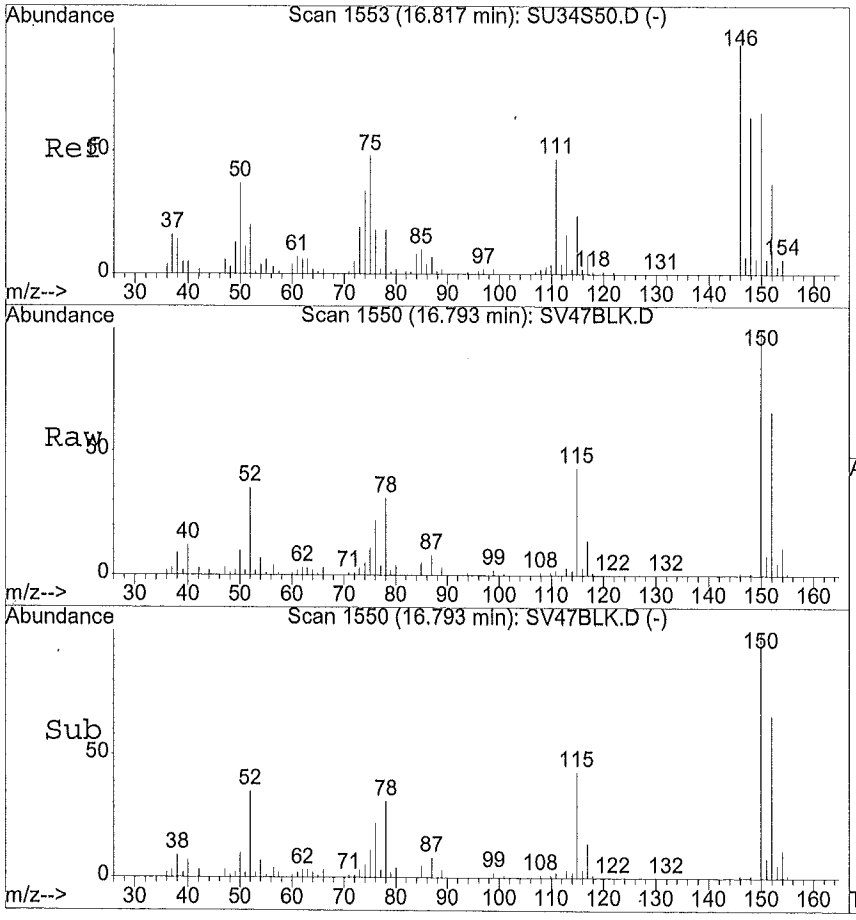


#65
1,4-Dichlorobenzene
Concen: 0.42 ug/Kg
RT: 16.24 min Scan# 1494
Delta R.T. -0.02 min
Lab File: SV47BLK.D
Acq: 06/13/2015 11:25

Tgt Ion:146 Resp: 10015

Ion	Ratio	Lower	Upper
146	100		
148	89.4	32.2	96.6
111	155.1	21.9	65.5#
75	1392.7	28.3	84.9#

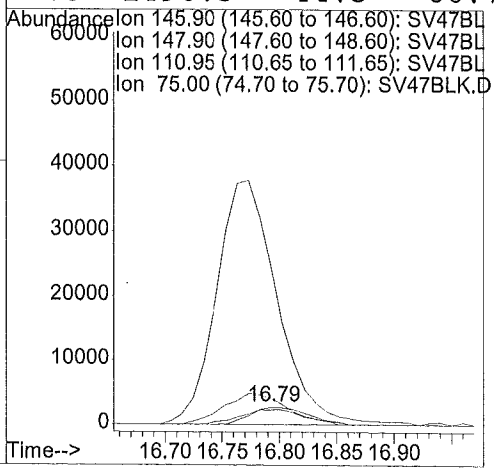


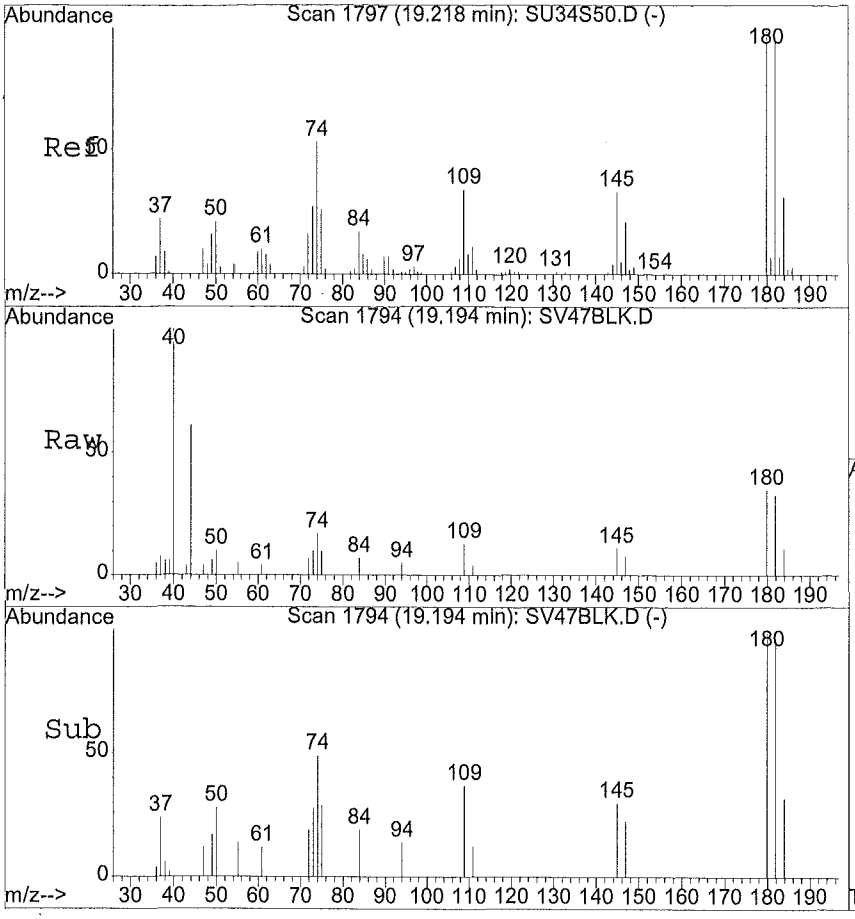


#66
1,2-Dichlorobenzene
Concen: 0.42 ug/Kg
RT: 16.79 min Scan# 1550
Delta R.T. -0.02 min
Lab File: SV47BLK.D
Acq: 06/13/2015 11:25

Tgt Ion:145.9 Resp: 9427

Ion	Ratio	Lower	Upper
146	100		
148	96.8	52.6	78.8#
111	195.9	38.3	57.5#
75	1496.5	44.5	66.7#

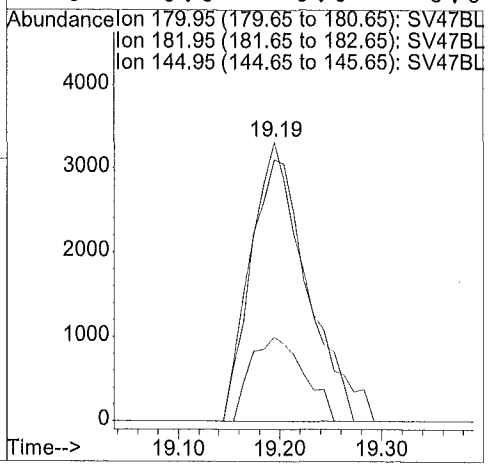


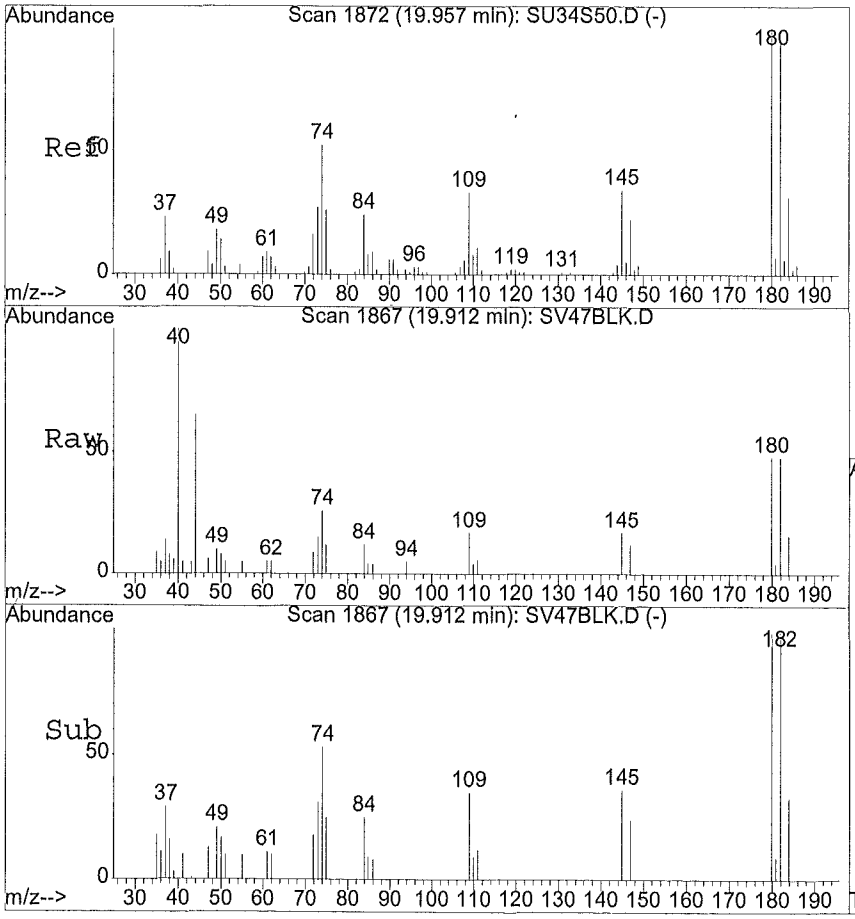


#69
1,2,4-Trichlorobenzene
Concen: 0.74 ug/Kg
RT: 19.19 min Scan# 1794
Delta R.T. -0.02 min
Lab File: SV47BLK.D
Acq: 06/13/2015 11:25

Tgt Ion:179.95 Resp: 12315

Ion	Ratio	Lower	Upper
180	100		
182	101.7	76.8	115.2
145	29.6	26.5	39.7
0	0.0	0.0	0.0

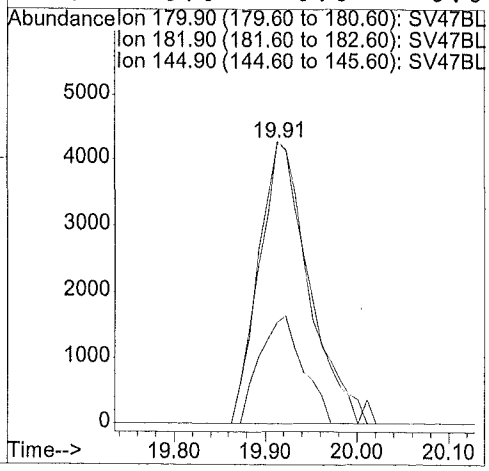




#70
1,2,3-Trichlorobenzene
Concen: 1.11 ug/Kg
RT: 19.91 min Scan# 1867
Delta R.T. -0.04 min
Lab File: SV47BLK.D
Acq: 06/13/2015 11:25

Tgt Ion:179.9 Resp: 16402

Ion	Ratio	Lower	Upper
180	100		
182	97.7	76.4	114.6
145	33.0	27.8	41.8
0	0.0	0.0	0.0



00202

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 451274

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SV55HBLK

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 06/13/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 451274

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SV55HBLK

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 06/13/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 451274

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SV55HBLK

Level: (TRACE or LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 06/13/2015

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

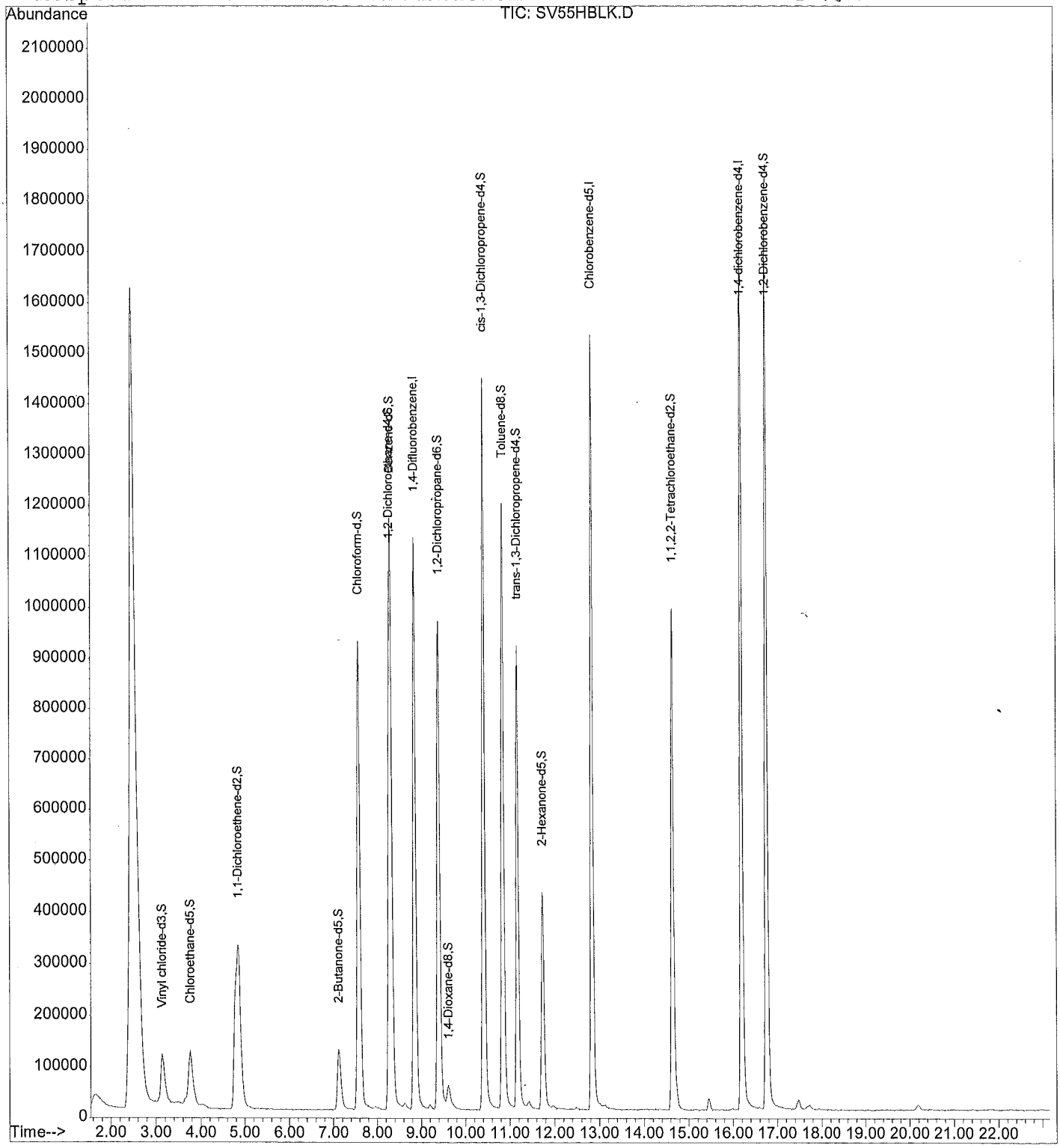
Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV55HBLK.D
Acq Time : 06/13/2015 15:36 Operator: CQC
Sample : 451274 VHBLKS1 Inst : 5972-S
Misc : 2.5 uL of 28198 Multiplr: 1.00

Quant Time: Jun 13 16:00 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration

6.13.15



: 66266

Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV55HBLK.D
Acq Time : 06/13/2015 15:36 Operator: CQC
Sample : 451274 VHBLKS1 Inst : 5972-S
Misc : 2.5 uL of 28198 Multiplr: 1.00

Quant Time: Jun 13 16:00 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.85	114	1784410	50.00 ug/Kg	135.17
30) Chlorobenzene-d5	12.84	117	1466147	50.00 ug/Kg	136.97
62) 1,4-dichlorobenzene-d4	16.19	152	835051	50.00 ug/Kg	137.25
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.14	65	387398	34.02 ug/Kg	68.04%
8) Chloroethane-d5	3.76	69	410011	37.84 ug/Kg	75.69%
11) 1,1-Dichloroethene-d2	4.86	63	1115886	29.72 ug/Kg	59.44%
22) 2-Butanone-d5	7.12	46	413217	133.69 ug/Kg	133.69%
25) Chloroform-d	7.58	84	1651596	44.91 ug/Kg	89.82%
27) 1,2-Dichloroethane-d4	8.28	65	874658	52.03 ug/Kg	104.06%
29) 1,4-Dioxane-d8	9.61	96	72268	1389.25 ug/Kg	138.92%
35) Benzene-d6	8.32	84	1659746	46.03 ug/Kg	92.07%
39) 1,2-Dichloropropane-d6	9.39	67	838907	47.24 ug/Kg	94.48%
42) cis-1,3-Dichloropropene-d4	10.42	79	1551603	52.16 ug/Kg	104.31%
44) trans-1,3-Dichloropropene-	11.17	79	940521	54.83 ug/Kg	109.65%
49) Toluene-d8	10.85	98	1517349	46.52 ug/Kg	93.04%
52) 2-Hexanone-d5	11.73	63	307315	135.17 ug/Kg	135.17%#
61) 1,1,2,2-Tetrachloroethane-	14.65	84	1025329	55.98 ug/Kg	111.97%
67) 1,2-Dichlorobenzene-d4	16.76	152	822403	51.37 ug/Kg	102.75%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	0.00	43		Not Detected	
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	0.00	84		Not Detected	
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

: 9267

Quantitation Report

Data File : D:\HPCHEM\1\DATA\13JUN15S\SV55HBLK.D
Acq Time : 06/13/2015 15:36 Operator: CQC
Sample : 451274 VHBLKS1 Inst : 5972-S
Misc : 2.5 uL of 28198 Multiplr: 1.00

Quant Time: Jun 13 16:00 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	0.00	91		Not Detected	
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

: 99289

2J - FORM II SV-3

SOIL SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC1 (PHL) #	SDMC2 (BCE) #	SDMC3 (2CP) #	SDMC4 (4MP) #	SDMC5 (NBZ) #	SDMC6 (2NP) #	SDMC7 (DCP) #	SDMC8 (4CA) #
01	F9K00	58	55	55	18	62	62	53	0 *
02	F9M82	56	45	54	33	53	55	61	0 *
03	F9M83	58	49	56	37	55	56	59	0 *
04	F9M84	58	50	55	28	57	58	60	0 *
05	F9M85	77	69	77	73	75	76	80	0 *
06	F9M86	51	48	53	47	54	55	54	0 *
07	F9M87	65	61	66	56	68	66	67	0 *
08	F9M88	69	62	67	54	70	69	73	0 *
09	F9M89	55	58	55	14	60	58	54	2
10	F9M90	81	75	78	30	79	77	76	1 *
11	F9M91	74	67	75	36	76	78	82	0 *
12	F9M92	74	64	72	43	71	73	79	0 *
13	F9M93	79	72	77	40	82	81	82	0 *
14	F9M94	87	77	84	38	81	78	82	1 *
15	F9M95	67	57	68	39	66	66	76	2
16	F9M96	58	51	55	21	57	58	60	0 *
17	F9M97	73	61	72	22	73	75	78	0 *
18	F9M98	59	49	57	20	61	62	63	0 *
19	F9M99	73	63	66	17	69	71	65	1 *
20	SBLK31	46	40	52	51	49	52	57	20
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

	QC LIMITS
SDMC1 (PHL) = Phenol-d5	(17-103)
SDMC2 (BCE) = Bis(2-chloroethyl)ether-d8	(12-98)
SDMC3 (2CP) = 2-Chlorophenol-d4	(13-101)
SDMC4 (4MP) = 4-Methylphenol-d8	(8-100)
SDMC5 (NBZ) = Nitrobenzene-d5	(16-103)
SDMC6 (2NP) = 2-Nitrophenol-d4	(16-104)
SDMC7 (DCP) = 2,4-Dichlorophenol-d3	(23-104)
SDMC8 (4CA) = 4-Chloroaniline-d4	(1-145)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted out

2K - FORM II SV-4

SOIL SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9K00

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC9 (DMP) #	SDMC10 (ACY) #	SDMC11 (4NP) #	SDMC12 (FLR) #	SDMC13 (NMP) #	SDMC14 (ANC) #	SDMC15 (PYR) #	SDMC16 (BAP) #	TOT OUT
01	F9K00	70	63	72	70	47	61	65	59	1
02	F9M82	71	63	72	70	39	63	70	62	1
03	F9M83	65	59	66	66	36	57	63	55	1
04	F9M84	71	64	72	72	41	59	69	58	1
05	F9M85	84	78	83	85	34	80	99	60	1
06	F9M86	58	54	58	60	41	56	60	55	1
07	F9M87	75	68	73	74	43	66	73	64	1
08	F9M88	81	74	84	82	40	73	79	72	1
09	F9M89	72	64	67	69	14	61	74	56	0
10	F9M90	94	83	94	92	16	77	94	70	1
11	F9M91	95	80	96	92	44	74	92	70	1
12	F9M92	91	78	94	89	35	76	89	69	1
13	F9M93	93	82	94	92	29	78	90	72	1
14	F9M94	101	87	104	99	17	82	105	78	1
15	F9M95	85	71	84	83	22	78	85	74	0
16	F9M96	73	63	73	74	45	68	80	68	1
17	F9M97	100	76	97	95	61	84	102	84	1
18	F9M98	81	69	80	80	46	70	84	66	1
19	F9M99	90	70	88	84	55	75	87	67	1
20	SBLK31	81	66	59	77	77	89	108	104	0
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

	QC LIMITS
SDMC9 (DMP) = Dimethylphthalate-d6	(43-111)
SDMC10 (ACY) = Acenaphthylene-d8	(20-97)
SDMC11 (4NP) = 4-Nitrophenol-d4	(16-166)
SDMC12 (FLR) = Fluorene-d10	(40-108)
SDMC13 (NMP) = 4,6-Dinitro-2-methylphenol-d2	(1-121)
SDMC14 (ANC) = Anthracene-d10	(22-98)
SDMC15 (PYR) = Pyrene-d10	(51-120)
SDMC16 (BAP) = Benzo(a)pyrene-d12	(43-111)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted out

4C - FORM IV SV
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK31

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab File ID: DEL08BLK Lab Sample ID: 451431

Instrument ID: 5975-D Date Extracted: 06/15/2015

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 06/22/2015

Level: (LOW/MED) LOW Time Analyzed: 16:58

Extraction: (Type) SONC GPC Cleanup: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	F9K00	1515725001	GCB02F00	06/23/2015
02	F9M82	1515725002	GCB03F82	06/23/2015
03	F9M83	1515725003	GCB04F83	06/23/2015
04	F9M84	1515725004	GCB05F84	06/23/2015
05	F9M85	1515725005	GCB06F85	06/23/2015
06	F9M86	1515725006	GCC05F86	06/24/2015
07	F9M87	1515725007	GCC06F87	06/24/2015
08	F9M88	1515725008	GCC07F88	06/24/2015
09	F9M89	1515725009	GCB10F89	06/23/2015
10	F9M90	1515725010	GCB11F90	06/23/2015
11	F9M91	1515725011	GCC08F91	06/24/2015
12	F9M92	1515725014	GCC09F92	06/24/2015
13	F9M93	1515725015	GCC10F94	06/24/2015
14	F9M94	1515725016	GCB15F94	06/24/2015
15	F9M95	1515725017	GCC11F95	06/24/2015
16	F9M96	1515725018	DEM02F18	06/23/2015
17	F9M97	1515725019	DEL10F19	06/22/2015
18	F9M98	1515725020	DEL11F20	06/22/2015
19	F9M99	1515725021	DEL12F21	06/22/2015
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

5B - FORM V SV
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.: DFTPPDL

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab File ID: DEL02S20 DFTPP Injection Date: 06/22/2015

Instrument ID: 5975-D DFTPP Injection Time: 13:05

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.0
68	Less than 2.0% of mass 69	0.5 (1.6) 1
69	Mass 69 relative abundance	31.0
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	41.0
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	24.4
365	Greater than 1.0% of mass 198	2.9
441	Present, but less than mass 443	8.6
442	50.0 - 100% of mass 198	58.7
443	15.0 - 24.0% of mass 442	11.7 (20.0) 2

1 - Value is %mass 69 2 - Value is %mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020DL	SSTD020DL	DEL02S20	06/22/2015	13:05
02	SSTD005DL	SSTD005DL	DEL03S05	06/22/2015	13:39
03	SSTD010DL	SSTD010DL	DEL04S10	06/22/2015	14:13
04	SSTD040DL	SSTD040DL	DEL05S40	06/22/2015	15:16
05	SSTD080DL	SSTD080DL	DEL06S80	06/22/2015	15:50
06	SBLK31	451431	DEL08BLK	06/22/2015	16:58
07	F9M97	1515725019	DEL10F19	06/22/2015	18:07
08	F9M98	1515725020	DEL11F20	06/22/2015	18:41
09	F9M99	1515725021	DEL12F21	06/22/2015	19:15
10	SSTD020L1	SSTD020L1	DEL13S20	06/22/2015	19:49
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					

5B - FORM V SV
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.: DFTPPDM

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab File ID: DEM01S20 DFTPP Injection Date: 06/23/2015

Instrument ID: 5975-D DFTPP Injection Time: 08:20

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	41.8
68	Less than 2.0% of mass 69	0.5 (1.6) 1
69	Mass 69 relative abundance	33.0
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	43.2
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	23.3
365	Greater than 1.0% of mass 198	2.7
441	Present, but less than mass 443	7.7
442	50.0 - 100% of mass 198	51.8
443	15.0 - 24.0% of mass 442	9.9 (19.2) 2

1 - Value is %mass 69 2 - Value is %mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020DM	SSTD020DM	DEM01S20	06/23/2015	08:20
02	F9M96	1515725018	DEM02F18	06/23/2015	08:54
03	SSTD020M1	SSTD020M1	DEM03S20	06/23/2015	09:28
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					

5B - FORM V SV
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.: DFTPPGT

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab File ID: GBV01S20 DFTPP Injection Date: 06/20/2015

Instrument ID: 5975-G DFTPP Injection Time: 10:04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	60.6
68	Less than 2.0% of mass 69	0.6 (1.3) 1
69	Mass 69 relative abundance	47.2
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	46.8
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	18.8
365	Greater than 1.0% of mass 198	2.3
441	Present, but less than mass 443	8.7
442	50.0 - 100% of mass 198	56.9
443	15.0 - 24.0% of mass 442	10.8 (19.0) 2

1 - Value is %mass 69 2 - Value is %mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD005GV	SSTD005GV	GBV03S05	06/20/2015	11:10
02	SSTD010GV	SSTD010GV	GBV04S10	06/20/2015	11:43
03	SSTD020GV	SSTD020GV	GBV05S20	06/20/2015	12:16
04	SSTD040GV	SSTD040GV	GBV06S40	06/20/2015	12:49
05	SSTD080GV	SSTD080GV	GBV07S80	06/20/2015	13:22
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					

5B - FORM V SV
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.: DFTPPGB

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab File ID: GCB01S20 DFTPP Injection Date: 06/23/2015

Instrument ID: 5975-G DFTPP Injection Time: 17:03

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	62.3
68	Less than 2.0% of mass 69	0.5 (1.1) 1
69	Mass 69 relative abundance	47.3
70	Less than 2.0% of mass 69	0.4 (0.8) 1
127	10.0 - 80.0% of mass 198	47.2
197	Less than 2.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	18.7
365	Greater than 1.0% of mass 198	2.1
441	Present, but less than mass 443	9.6
442	50.0 - 100% of mass 198	58.5
443	15.0 - 24.0% of mass 442	11.3 (19.3) 2

1 - Value is %mass 69 2 - Value is %mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020GB	SSTD020GB	GCB01S20	06/23/2015	17:03
02	F9K00	1515725001	GCB02F00	06/23/2015	17:37
03	F9M82	1515725002	GCB03F82	06/23/2015	18:11
04	F9M83	1515725003	GCB04F83	06/23/2015	18:44
05	F9M84	1515725004	GCB05F84	06/23/2015	19:18
06	F9M85	1515725005	GCB06F85	06/23/2015	19:51
07	F9M89	1515725009	GCB10F89	06/23/2015	22:03
08	F9M90	1515725010	GCB11F90	06/23/2015	22:36
09	F9M94	1515725016	GCB15F94	06/24/2015	00:45
10	SSTD020B1	SSTD020B1	GCB20S20	06/24/2015	03:26
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5B - FORM V SV
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.: DFTPPGC

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab File ID: GCC04S20 DFTPP Injection Date: 06/24/2015

Instrument ID: 5975-G DFTPP Injection Time: 08:34

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	60.6
68	Less than 2.0% of mass 69	0.7 (1.5) 1
69	Mass 69 relative abundance	47.0
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	46.8
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 60.0% of mass 198	17.9
365	Greater than 1.0% of mass 198	2.2
441	Present, but less than mass 443	9.7
442	50.0 - 100% of mass 198	56.6
443	15.0 - 24.0% of mass 442	10.5 (18.6) 2

1 - Value is %mass 69 2 - Value is %mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020GC	SSTD020GC	GCC04S20	06/24/2015	08:34
02	F9M86	1515725006	GCC05F86	06/24/2015	09:07
03	F9M87	1515725007	GCC06F87	06/24/2015	09:40
04	F9M88	1515725008	GCC07F88	06/24/2015	10:13
05	F9M91	1515725011	GCC08F91	06/24/2015	10:47
06	F9M92	1515725014	GCC09F92	06/24/2015	11:20
07	F9M93	1515725015	GCC10F94	06/24/2015	11:53
08	F9M95	1515725017	GCC11F95	06/24/2015	12:26
09	SSTD020C1	SSTD020C1	GCC12S20	06/24/2015	13:00
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8C - FORM VIII SV-1
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s):

EPA Sample No.(SSTD020##): SSTD020DL Date Analyzed: 06/22/2015

Lab File ID (Standard): DEL02S20 Time Analyzed: 13:05

Instrument ID: 5975-D

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	411445		4.91		1389566		6.32		878032		8.95	
	UPPER LIMIT	822890		5.41		2779132		6.82		1756064		9.45	
	LOWER LIMIT	205723		4.41		694783		5.82		439016		8.45	
	EPA SAMPLE NO.												
01	SBLK31	430246		4.91		1526609		6.32		948515		8.95	
02	F9M97	391042		4.91		1365907		6.32		894320		8.95	
03	F9M98	425758		4.91		1451782		6.32		934187		8.95	
04	F9M99	342608		4.91		1232404		6.32		812454		8.95	
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8D - FORM VIII SV-2
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

EPA Sample No.(SSTD020##): SSTD020DL Date Analyzed: 06/22/2015

Lab File ID (Standard): DEL02S20 Time Analyzed: 13:05

Instrument ID: 5975-D GC Column: DB5MS ID: 0.32 (mm)

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	1586377		11.58		1999621		15.76		1813788		18.14	
	UPPER LIMIT	3172754		12.08		3999242		16.26		3627576		18.64	
	LOWER LIMIT	793189		11.08		999811		15.26		906894		17.64	
	EPA SAMPLE NO.												
01	SBLK31	1670385		11.58		1978701		15.76		1832927		18.14	
02	F9M97	1638140		11.57		2045382		15.76		1810345		18.14	
03	F9M98	1715470		11.57		2143528		15.76		1907742		18.14	
04	F9M99	1499296		11.57		1862734		15.76		1664634		18.14	
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8C - FORM VIII SV-1
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 06/22/2015 06/22/2015

EPA Sample No.(SSTD020##): SSTD020DM Date Analyzed: 06/23/2015

Lab File ID (Standard): DEM01S20 Time Analyzed: 08:20

Instrument ID: 5975-D

	IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD		491401		4.91		1621639		6.32		1046674		8.96	
	UPPER LIMIT		982802		5.41		3243278		6.82		2093348		9.46	
	LOWER LIMIT		245701		4.41		810820		5.82		523337		8.46	
	EPA SAMPLE NO.													
01	F9M96		468267		4.92		1623176		6.32		1069137		8.95	
02														
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8D - FORM VIII SV-2
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

EPA Sample No.(SSTD020##): SSTD020DM Date Analyzed: 06/23/2015

Lab File ID (Standard): DEM01S20 Time Analyzed: 08:20

Instrument ID: 5975-D GC Column: DB5MS ID: 0.32 (mm)

	IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD		1887820		11.58		2335905		15.77		2165960		18.15
	UPPER LIMIT		3775640		12.08		4671810		16.27		4331920		18.65
	LOWER LIMIT		943910		11.08		1167953		15.27		1082980		17.65
	EPA SAMPLE NO.											
01	F9M96		1977988		11.58		2296885		15.76		1909245		18.14
02												
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8C - FORM VIII SV-1
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020GB Date Analyzed: 06/23/2015

Lab File ID (Standard): GCB01S20 Time Analyzed: 17:03

Instrument ID: 5975-G

	IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD		331478		4.91		1224327		6.32		678226		8.96	
	UPPER LIMIT		662956		5.41		2448654		6.82		1356452		9.46	
	LOWER LIMIT		165739		4.41		612164		5.82		339113		8.46	
	EPA SAMPLE NO.													
01	F9K00		311678		4.91		1196367		6.32		682499		8.96	
02	F9M82		281914		4.92		1091443		6.32		639160		8.96	
03	F9M83		306186		4.92		1194415		6.32		702991		8.96	
04	F9M84		318007		4.91		1220810		6.32		707085		8.96	
05	F9M85		244053		4.92		948854		6.32		568073		8.96	
06	F9M89		293592		4.91		1123253		6.32		644956		8.96	
07	F9M90		276813		4.92		1103556		6.32		637049		8.96	
08	F9M94		300833		4.92		1197361		6.32		701694		8.96	
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8D - FORM VIII SV-2
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

EPA Sample No.(SSTD020##): SSTD020GB Date Analyzed: 06/23/2015

Lab File ID (Standard): GCB01S20 Time Analyzed: 17:03

Instrument ID: 5975-G GC Column: DB5MS ID: 0.32 (mm)

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	1103457		11.59		1047227		15.78		924199		18.17	
	UPPER LIMIT	2206914		12.09		2094454		16.28		1848398		18.67	
	LOWER LIMIT	551729		11.09		523614		15.28		462100		17.67	
	EPA SAMPLE NO.												
01	F9K00	1124994		11.59		1123415		15.78		894479		18.16	
02	F9M82	1080732		11.59		1083383		15.78		866136		18.16	
03	F9M83	1190103		11.59		1185926		15.78		926173		18.17	
04	F9M84	1198673		11.59		1188209		15.78		939520		18.17	
05	F9M85	962428		11.59		760495		15.78		488436		18.17	
06	F9M89	1067794		11.59		928454		15.78		477425		18.16	
07	F9M90	1085820		11.59		952555		15.78		473711		18.16	
08	F9M94	1185361		11.59		1018954		15.78		501443		18.17	
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8C - FORM VIII SV-1
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020GC Date Analyzed: 06/24/2015

Lab File ID (Standard): GCC04S20 Time Analyzed: 08:34

Instrument ID: 5975-G

	IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD		307416		4.92		1152874		6.32		659494		8.96	
	UPPER LIMIT		614832		5.42		2305748		6.82		1318988		9.46	
	LOWER LIMIT		153708		4.42		576437		5.82		329747		8.46	
	EPA SAMPLE NO.													
01	F9M86		317896		4.92		1188550		6.32		694695		8.96	
02	F9M87		317614		4.92		1169529		6.32		672611		8.96	
03	F9M88		301205		4.92		1125411		6.32		658151		8.96	
04	F9M91		306897		4.92		1158211		6.32		674791		8.96	
05	F9M92		303503		4.92		1164464		6.32		680465		8.96	
06	F9M93		305399		4.92		1134412		6.32		672161		8.96	
07	F9M95		289030		4.92		1101918		6.32		658986		8.96	
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8D - FORM VIII SV-2
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

EPA Sample No.(SSTD020##): SSTD020GC Date Analyzed: 06/24/2015

Lab File ID (Standard): GCC04S20 Time Analyzed: 08:34

Instrument ID: 5975-G GC Column: DB5MS ID: 0.32 (mm)

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	1093625		11.60		1032843		15.79		932181		18.18	
	UPPER LIMIT	2187250		12.10		2065686		16.29		1864362		18.68	
	LOWER LIMIT	546813		11.10		516422		15.29		466091		17.68	
	EPA SAMPLE NO.												
01	F9M86	1151171		11.59		1103581		15.78		770864		18.17	
02	F9M87	1119251		11.59		1071882		15.78		762108		18.17	
03	F9M88	1143045		11.59		1081273		15.79		680658		18.17	
04	F9M91	1152721		11.59		1079636		15.79		747236		18.17	
05	F9M92	1145909		11.59		1070435		15.79		691158		18.18	
06	F9M93	1134891		11.59		1059745		15.79		663612		18.17	
07	F9M95	1093698		11.59		1044798		15.79		639965		18.18	
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9K00

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725001

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCB02F00

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/23/2015

GPC Cleanup: (Y/N) Y pH: 6.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	190	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9K00

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725001

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCB02F00

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/23/2015

GPC Cleanup: (Y/N) Y pH: 6.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	150	J
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9K00

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725001
Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCB02F00
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 12. Decanted: (Y/N) N Date Received: 06/05/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/23/2015
GPC Cleanup: (Y/N) Y pH: 6.8 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Propanone, 1-hydroxy-	2.17	360	J
02	814-78-8	3-Buten-2-one, 3-methyl-	2.22	380	JN
03		Unknown Butanal, 2,2-dimethyl-	2.31	340	J
04		Unknown 1,2-Ethanediol	2.38	260	J
05		Unknown Methacrylamide	2.84	310	J
06		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.54	6600	JB
07		Unknown Hexane, 1,1'-oxybis-	4.23	490	J
08		Unknown 1H-Pyrrole-2,5-dione	4.32	970	J
09		Unknown 2-Pentanone	4.63	2400	J
10		Unknown 1-Pyrrolidinecarboxaldehyde	5.03	240	J
11		Unknown Ethanone, 1-oxiranyl-	5.15	1800	J
12		Unknown Propanoic acid, 2-methyl-, 1-(1,1-dimeth	9.73	210	J
13	5129-60-2	Pentadecanoic acid, 14-methyl-, methyl ester	12.47	220	JN
14	57-10-3	n-Hexadecanoic acid	12.72	540	JN
15	693-71-0	trans-13-Octadecenoic acid	13.96	470	JN
16	638-58-4	Tetradecanamide	14.22	450	JN
17	301-02-0	9-Octadecenamide, (Z)-	15.13	4600	JNB
18		Unknown Phthalic anhydride	18.72	210	J
19	959092-08-1	Pentafluoropropionic acid, pentadecyl ester	19.70	980	JN
20	1058-61-3	Stigmast-4-en-3-one	24.42	440	JN
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	3200	J

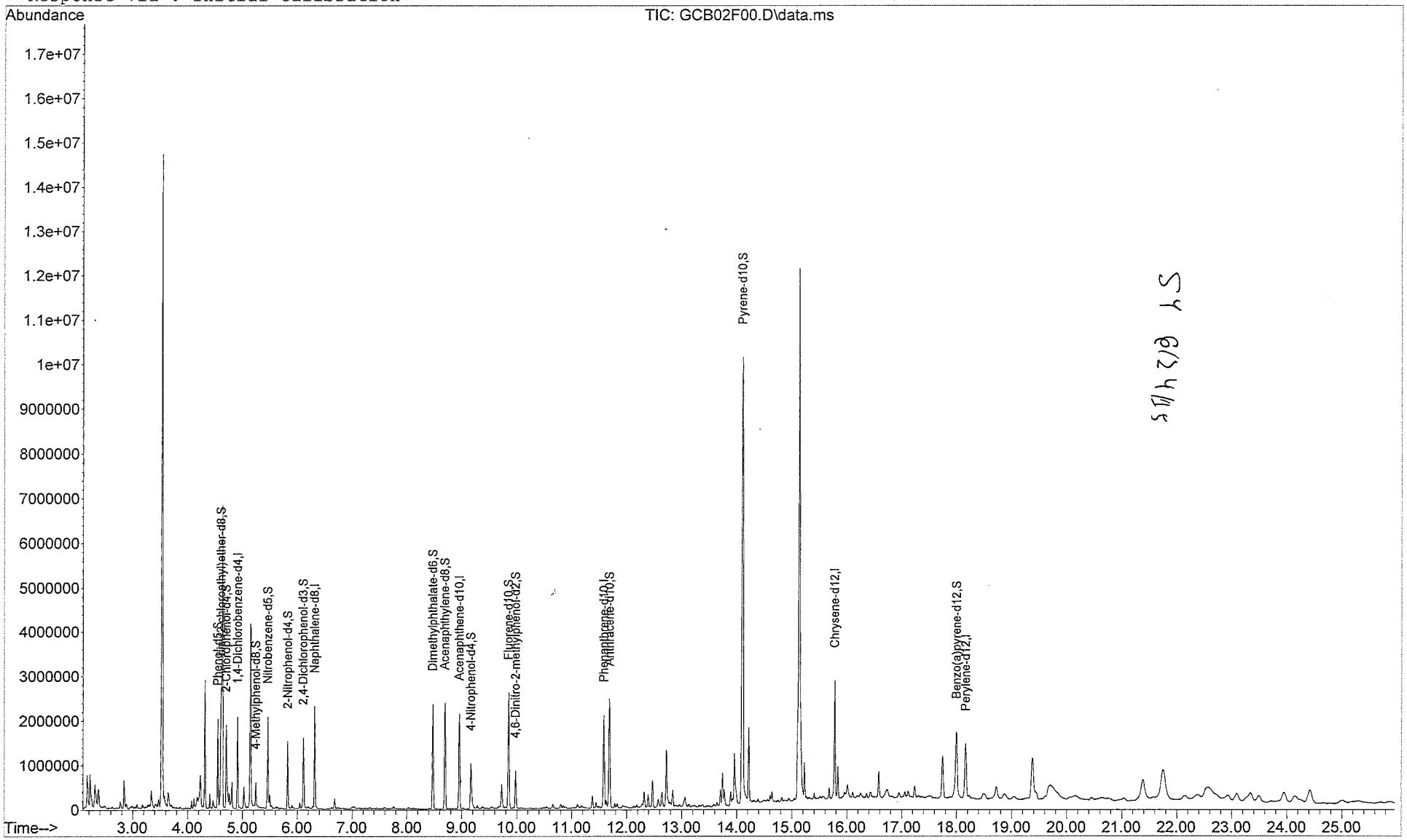
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB02F00.D Vial: 24
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 24 13:34:42 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration



GCB02F00.D GSOM01D6.M Wed Jun 24 13:41:09 2015 Page 3

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB02F00.D Vial: 24
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 24 13:34:42 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.91	152	311678	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1196367	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	682499	20.00 ug/ml
59) Phenanthrene-d10	11.59	188	1124994	20.00 ug/ml
73) Chrysene-d12	15.78	240	1123415	20.00 ug/ml
81) Perylene-d12	18.16	264	894479	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.55	99	632683	23.327ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	464232	21.963ug/mL
7) 2-Chlorophenol-d4	4.70	132	501381	21.894ug/ml
13) 4-Methylphenol-d8	5.25	113	128227	7.068ug/mL
17) Nitrobenzene-d5	5.46	128	260496	24.786ug/ml
21) 2-Nitrophenol-d4	5.83	143	275794	24.827ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	370001	21.390ug/mL
28) 4-Chloroaniline-d4	6.41	131	886	0.047ug/mL
42) Dimethylphthalate-d6	8.47	166	1190120	27.808ug/mL
45) Acenaphthylene-d8	8.69	160	1456753	25.047ug/mL
50) 4-Nitrophenol-d4	9.17	143	251965	28.859ug/mL
57) Fluorene-d10	9.85	176	1023703	28.009ug/mL
61) 4,6-Dinitro-2-methylphenol	9.98	200	148525	18.601ug/mL
69) Anthracene-d10	11.69	188	1451106	24.323ug/mL
75) Pyrene-d10	14.10	212	1448737	25.841ug/mL
86) Benzo(a)pyrene-d12	18.00	264	1016050	23.705ug/mL

Target Compounds			Qvalue
3) Benzaldehyde	0.00	77	Not Detected
4) Phenol	0.00	94	Not Detected
5) Bis(2-chloroethyl)ether	0.00	93	Not Detected
8) 2-Chlorophenol	0.00	128	Not Detected
9) 2-Methylphenol	0.00	108	Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45	Not Detected
11) Acetophenone	0.00	105	Not Detected
12) 4-methylphenol	0.00	108	Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70	Not Detected
15) Hexachloroethane	0.00	117	Not Detected
18) Nitrobenzene	0.00	77	Not Detected
19) Isophorone	0.00	82	Not Detected
20) 2-Nitrophenol	0.00	139	Not Detected
22) 2,4-Dimethylphenol	0.00	107	Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93	Not Detected
24) 2,4-Dichlorophenol	0.00	162	Not Detected
26) Naphthalene	0.00	128	Not Detected
27) 4-Chloroaniline	0.00	127	Not Detected
29) Hexachlorobutadiene	0.00	225	Not Detected
30) Caprolactam	0.00	113	Not Detected
31) 4-Chloro-3-methylphenol	0.00	107	Not Detected
32) 2-Methylnaphthalene	0.00	142	Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216	Not Detected
35) Hexachlorocyclopentadiene	0.00	237	Not Detected
36) 2,4,6-Trichlorophenol	0.00	196	Not Detected
37) 2,4,5-Trichlorophenol	0.00	196	Not Detected
38) 1,1'-Biphenyl	0.00	154	Not Detected
39) 2-Chloronaphthalene	0.00	162	Not Detected
40) 2-Nitroaniline	0.00	65	Not Detected
41) Dimethylphthalate	0.00	163	Not Detected
43) 2,6-Dinitrotoluene	0.00	165	Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00299

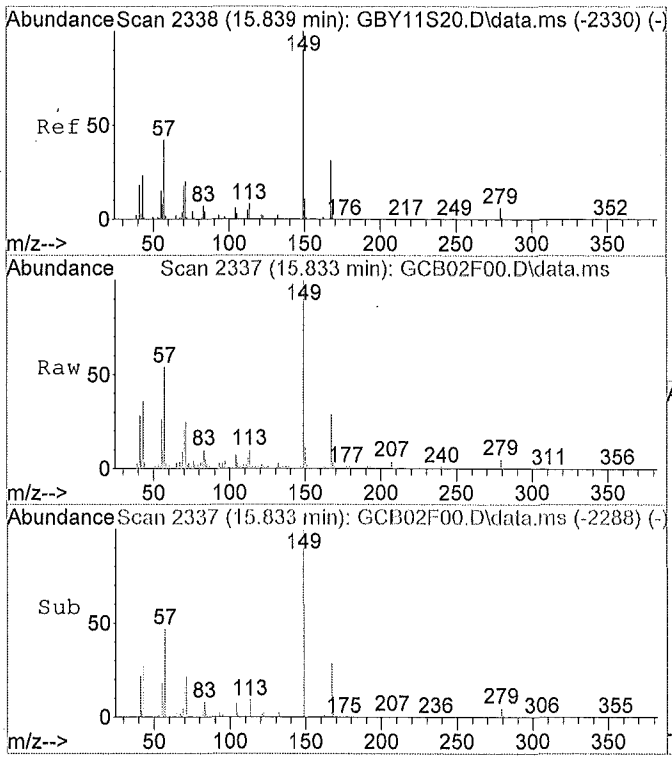
Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB02F00.D Vial: 24
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 24 13:34:42 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	0.00	152		Not Detected	
46)	3-Nitroaniline	0.00	138		Not Detected	
47)	Acenaphthene	0.00	153		Not Detected	
48)	2,4-Dinitrophenol	0.00	184		Not Detected	
49)	4-Nitrophenol	0.00	109		Not Detected	
51)	Dibenzofuran	0.00	168		Not Detected	
52)	2,4-Dinitrotoluene	0.00	165		Not Detected	
53)	2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54)	Diethylphthalate	0.00	149		Not Detected	
55)	4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56)	Fluorene	0.00	166		Not Detected	
58)	4-Nitroaniline	0.00	138		Not Detected	
60)	4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62)	N-Nitrosodiphenylamine	0.00	169		Not Detected	
63)	4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64)	Hexachlorobenzene	0.00	284		Not Detected	
65)	Atrazine	0.00	200		Not Detected	
66)	Pentachlorophenol	0.00	266		Not Detected	
67)	Phenanthrene	0.00	178		Not Detected	
68)	Anthracene	0.00	178		Not Detected	
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	0.00	202		Not Detected	
74)	Pyrene	0.00	202		Not Detected	
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	0.00	228		Not Detected	
79)	Chrysene	0.00	228		Not Detected	
80)	Bis-(2-ethylhexyl)phthalat	15.83	149	214518	3.861ug/ml	97
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	0.00	252		Not Detected	
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	0.00	252		Not Detected	
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

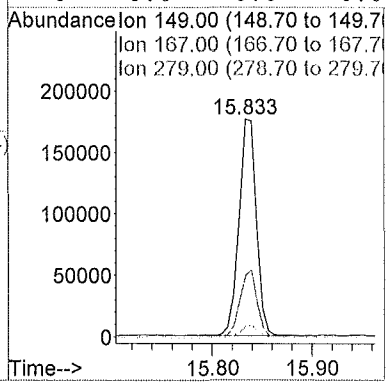
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#80
Bis-(2-ethylhexyl)phthalate
Concen: 3.86 ug/ml
RT: 15.83 min Scan# 2337
Delta R.T. -0.01 min
Lab File: GCB02F00.D
Acq: 06/23/2015 17:37

Tgt Ion:149 Resp: 214518

Ion	Ratio	Lower	Upper
149	100		
167	30.1	22.0	40.8
279	5.4	5.0	9.2
0	0.0	0.0	0.0



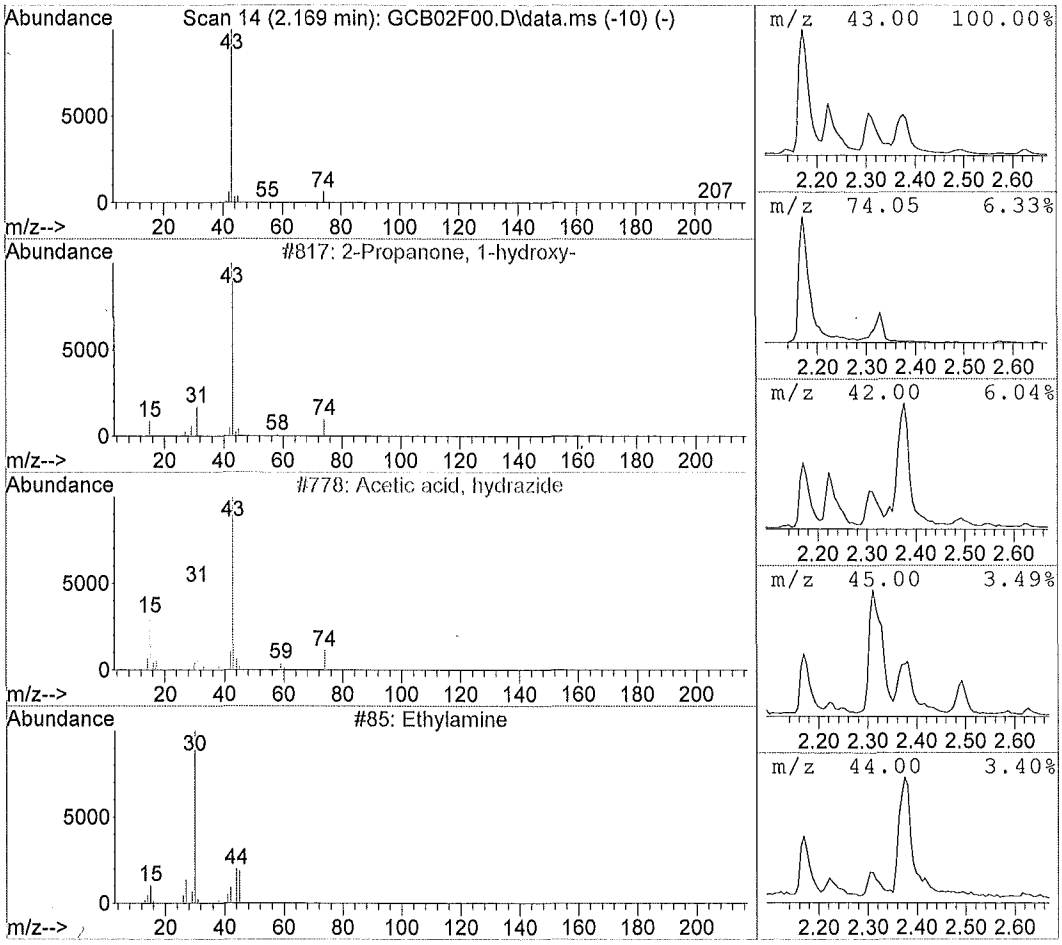
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB02F00.D Vial: 24
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.17	9.39 ug/ml	1007890	1,4-Dichlorobenzene-d4	2146316

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-hydroxy-	817	000116-09-6	9.00
2	Acetic acid, hydrazide	778	001068-57-1	4.00
3	Ethylamine	85	000075-04-7	4.00
4	Hydrogen azide	70	007782-79-8	4.00
5	1-Propanol, 2-methyl-	855	000078-83-1	3.00



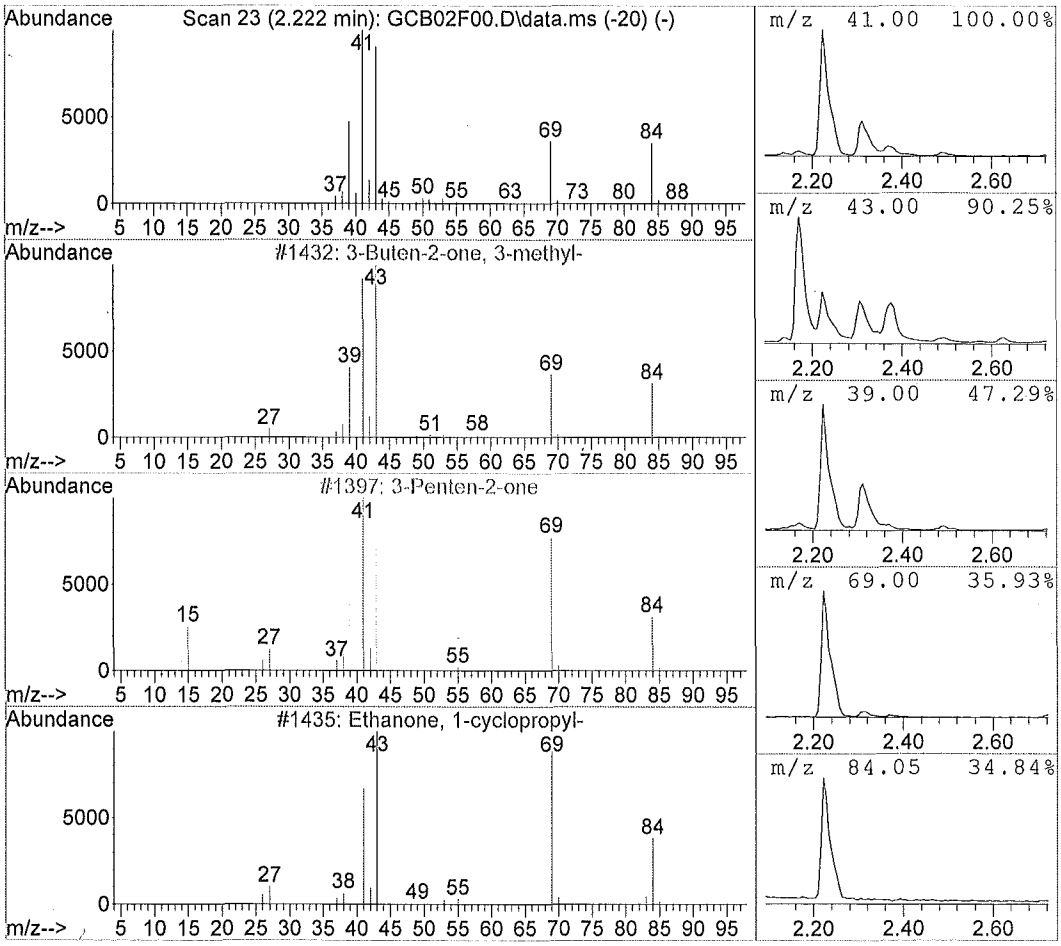
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB02F00.D Vial: 24
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.22	9.93 ug/ml	1065989	1,4-Dichlorobenzene-d4	2146316

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Buten-2-one, 3-methyl-	1432	000814-78-8	91.00
2	3-Penten-2-one	1397	000625-33-2	56.00
3	Ethanone, 1-cyclopropyl-	1435	000765-43-5	49.00
4	Dicyclopropyl carbinol	6505	014300-33-5	33.00
5	Cyclopropane, 1,1,2-trimethyl-	1520	004127-45-1	32.00

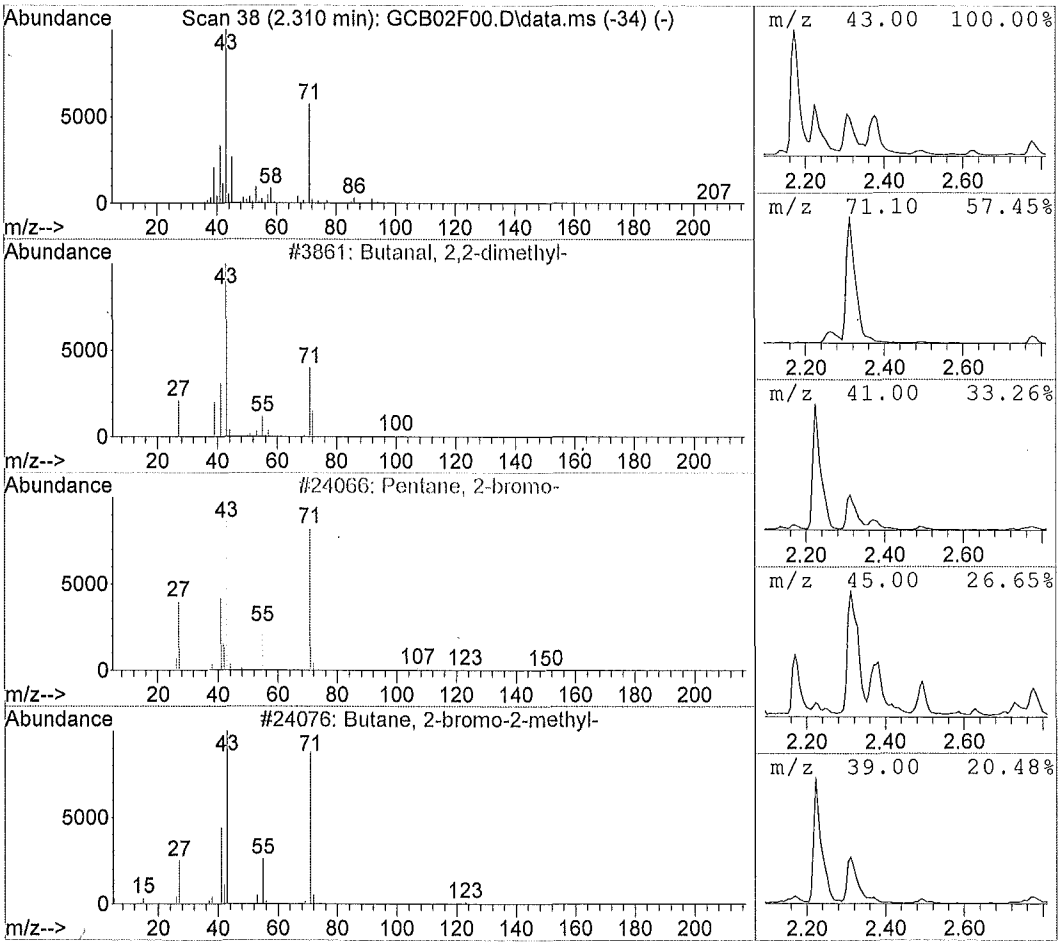


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB02F00.D Vial: 24
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.31	8.96 ug/ml	961754	1,4-Dichlorobenzene-d4	2146316

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Butanal, 2,2-dimethyl-	3861	002094-75-9	47.00
2	Pentane, 2-bromo-	24066	000107-81-3	40.00
3	Butane, 2-bromo-2-methyl-	24076	000507-36-8	40.00
4	Methyl glyoxal	628	000078-98-8	35.00
5	Propanoic acid, 2-methyl-, 2-ethyl-	132855	074367-30-9	33.00

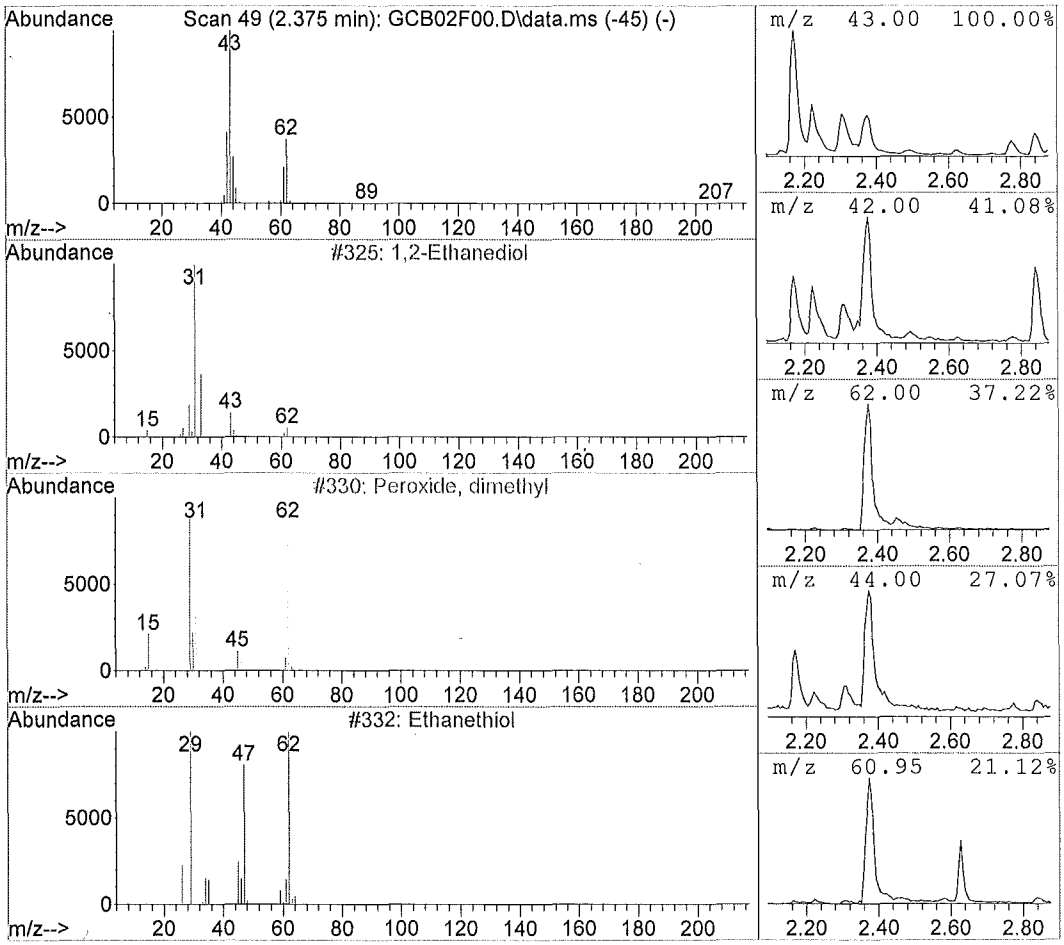


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB02F00.D Vial: 24
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.38	6.97 ug/ml	748275	1,4-Dichlorobenzene-d4	2146316

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Ethanediol	325	000107-21-1	9.00
2	Peroxide, dimethyl	330	000690-02-8	7.00
3	Ethanethiol	332	000075-08-1	5.00
4	Ethene, chloro-	323	000075-01-4	5.00
5	Ethanimidic acid, ethyl ester	1898	001000-84-6	4.00



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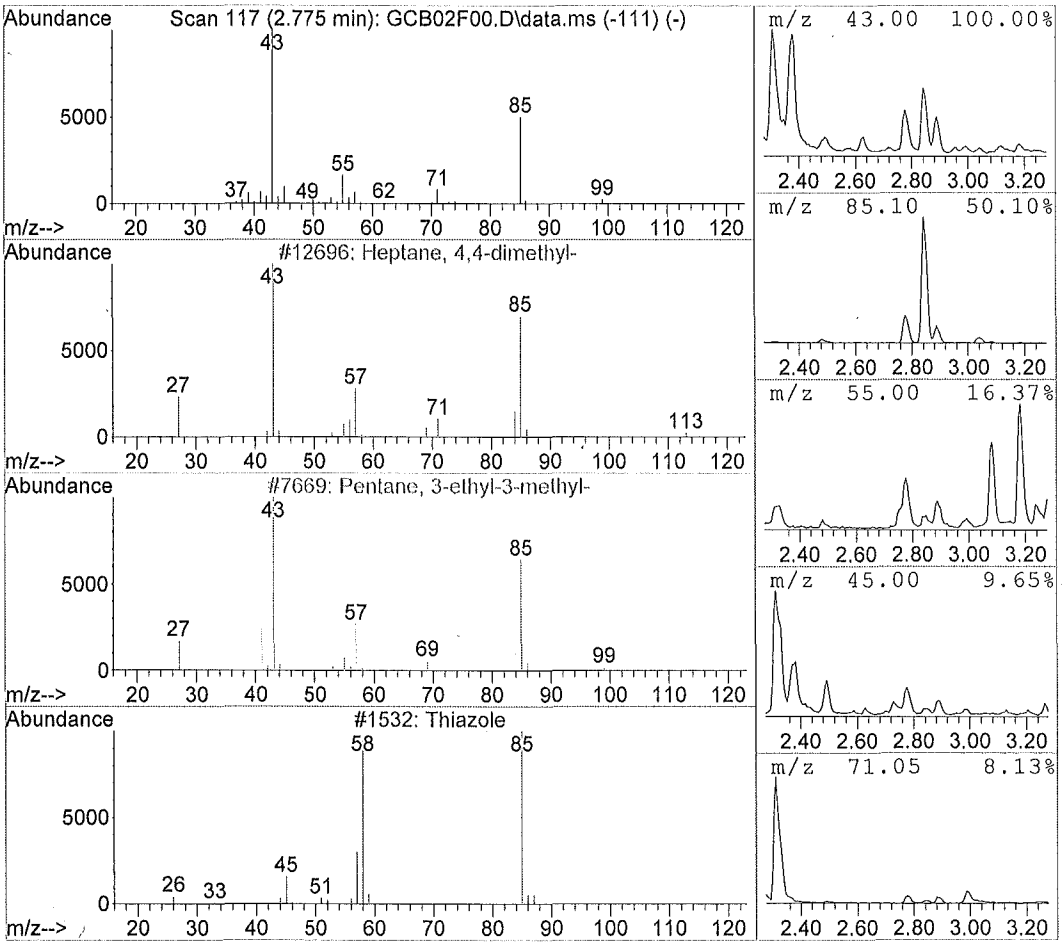
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.78	2.17 ug/ml	233241	1,4-Dichlorobenzene-d4	2146316

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 4,4-dimethyl-	12696	001068-19-5	36.00
2	Pentane, 3-ethyl-3-methyl-	7669	001067-08-9	33.00
3	Thiazole	1532	000288-47-1	28.00
4	2-Pentanone	1706	000107-87-9	22.00
5	Ethanone, 1-(3-ethyloxiranyl)-	7247	017257-81-7	9.00

BA

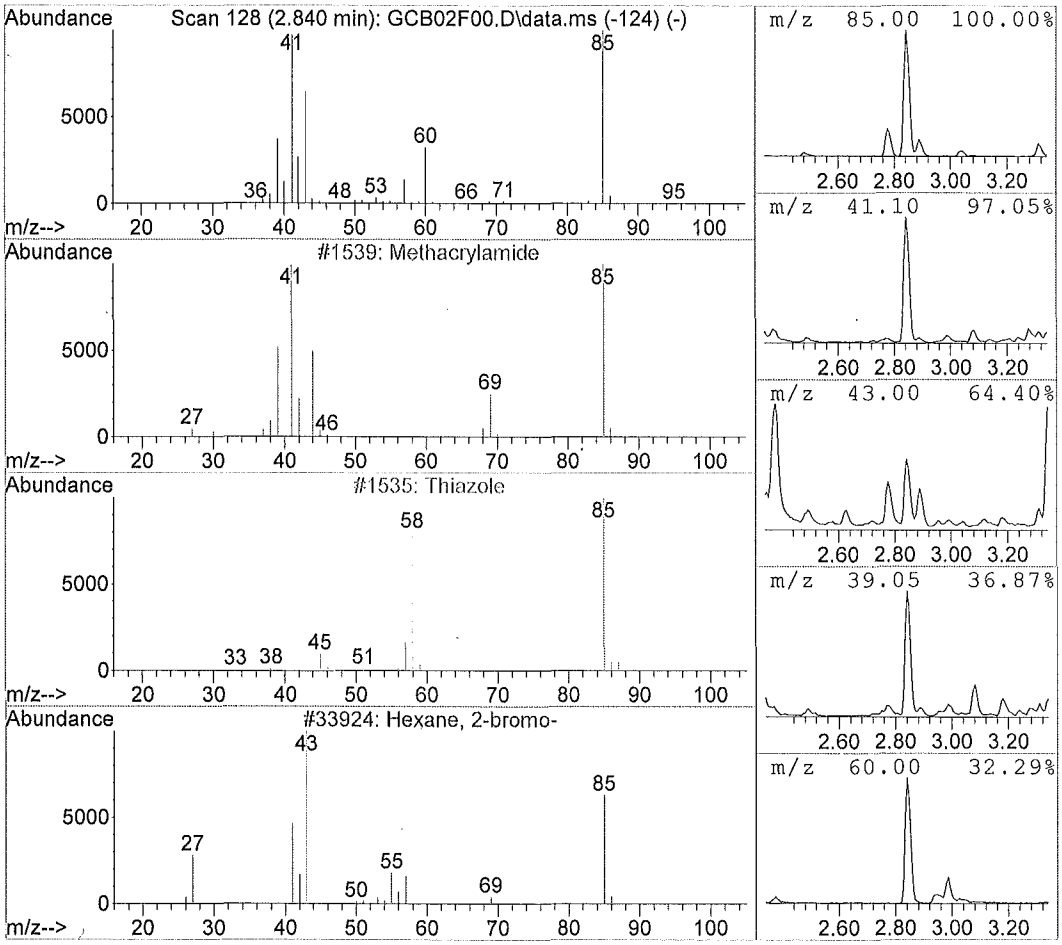


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB02F00.D Vial: 24
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.84	8.05 ug/ml	863528	1,4-Dichlorobenzene-d4	2146316

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methacrylamide	1539	000079-39-0	36.00
2	Thiazole	1535	000288-47-1	25.00
3	Hexane, 2-bromo-	33924	003377-86-4	17.00
4	2-Pyrrolidinone	1542	000616-45-5	9.00
5	Acetic acid	261	000064-19-7	9.00



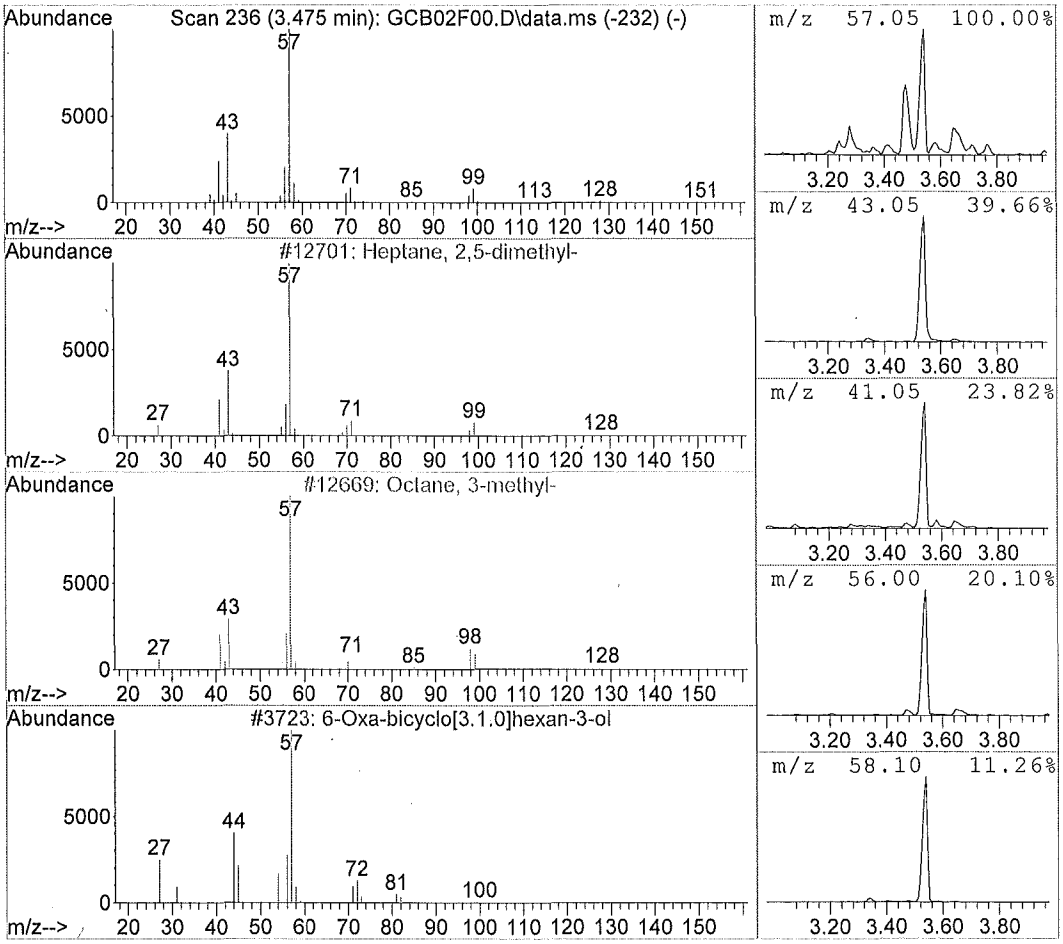
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB02F00.D Vial: 24
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.48	2.11 ug/ml	225928	1,4-Dichlorobenzene-d4	2146316

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,5-dimethyl-	12701	002216-30-0	80.00
2	Octane, 3-methyl-	12669	002216-33-3	59.00
3	6-Oxa-bicyclo[3.1.0]hexan-3-ol	3723	025494-14-8	53.00
4	1,3,2-Dioxaborolane, 4,4-dimethyl-5	19404	1000063-89-2	39.00
5	Heptane, 3,5-dimethyl-	12702	000926-82-9	38.00



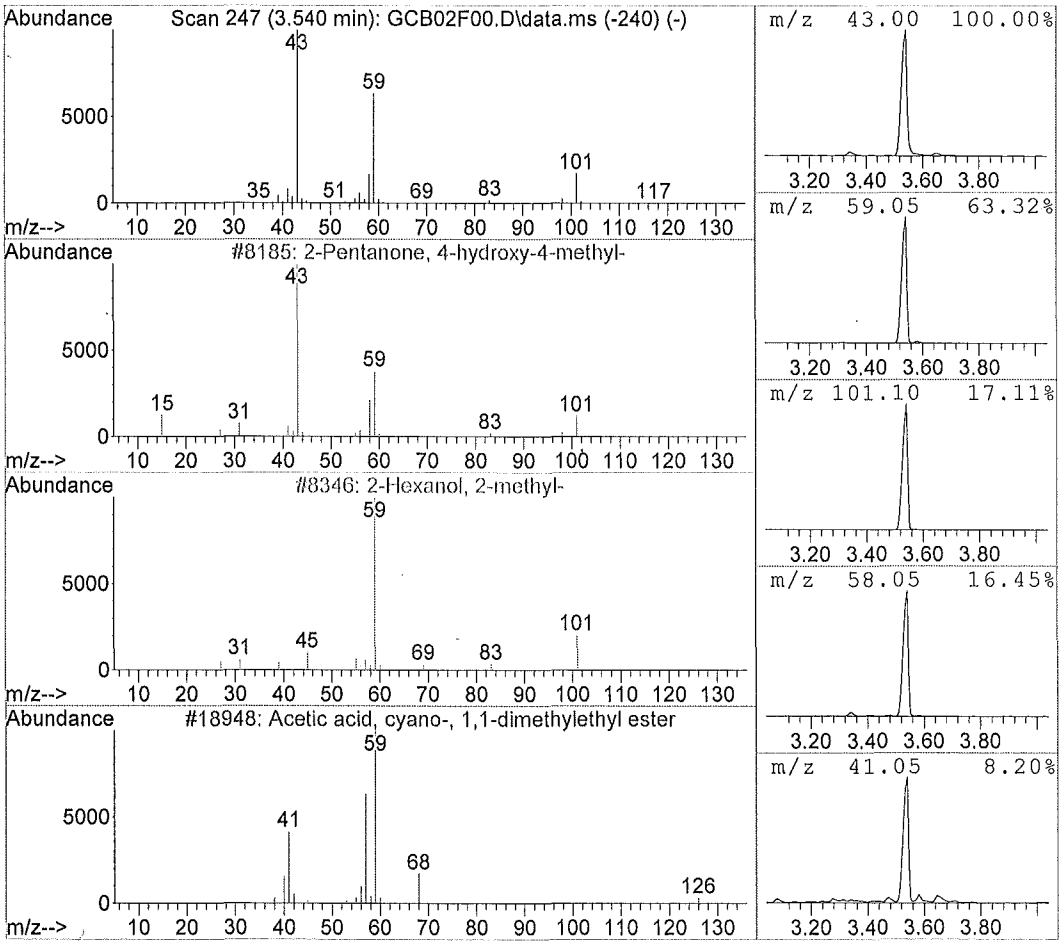
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB02F00.D Vial: 24
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.54	174.79 ug/ml	18757193	1,4-Dichlorobenzene-d4	2146316

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	42.00
2	2-Hexanol, 2-methyl-	8346	000625-23-0	28.00
3	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	23.00
4	Guanidine	258	000113-00-8	9.00
5	2,3-Butanedione, monooxime	4030	000057-71-6	9.00

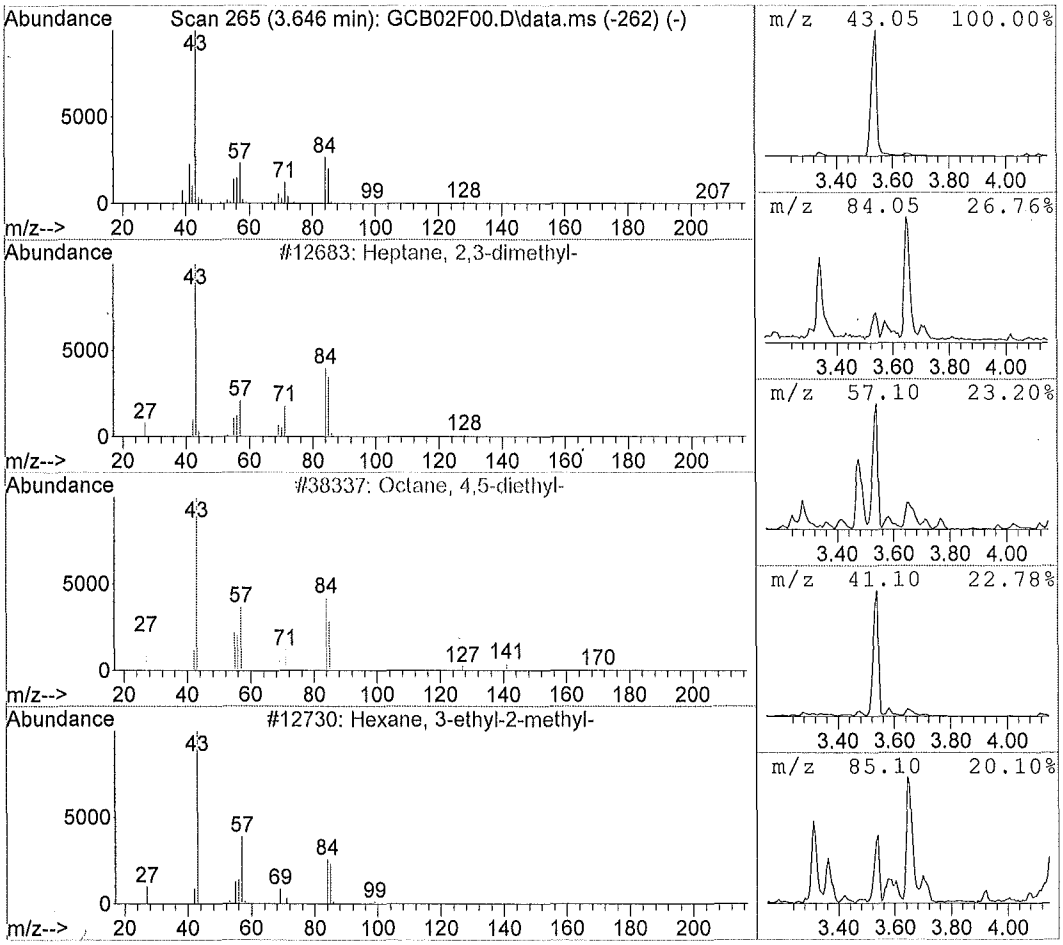


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB02F00.D Vial: 24
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.65	4.46 ug/ml	478625	1,4-Dichlorobenzene-d4	2146316

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl- BA	12683	003074-71-3	80.00
2	Octane, 4,5-diethyl-	38337	001636-41-5	64.00
3	Hexane, 3-ethyl-2-methyl-	12730	016789-46-1	59.00
4	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	59.00
5	1-Octene, 4-methyl-	11522	013151-12-7	56.00

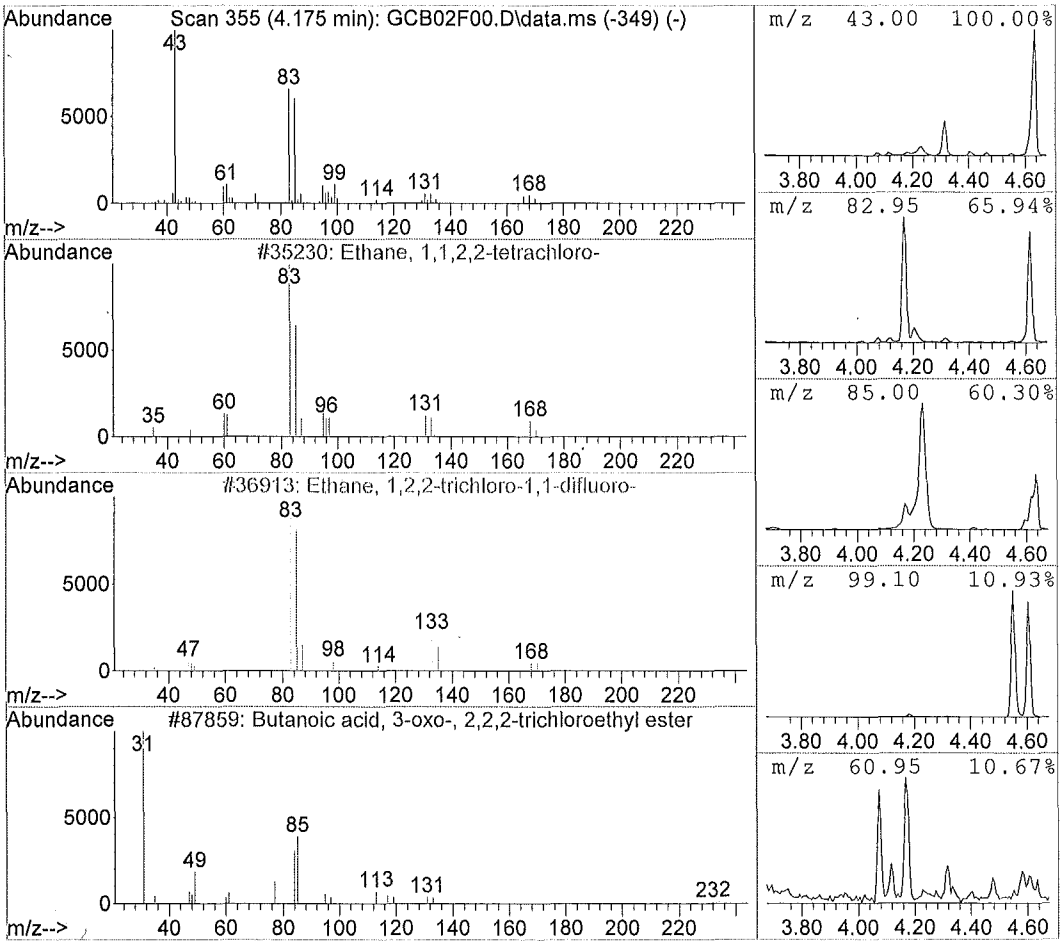


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB02F00.D Vial: 24
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.17	4.60 ug/ml	493481	1,4-Dichlorobenzene-d4	2146316

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro- VOA	35230	000079-34-5	76.00
2	Ethane, 1,2,2-trichloro-1,1-difluor	36913	000354-21-2	50.00
3	Butanoic acid, 3-oxo-, 2,2,2-trichl	87859	058547-15-2	32.00
4	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	32.00
5	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	23.00



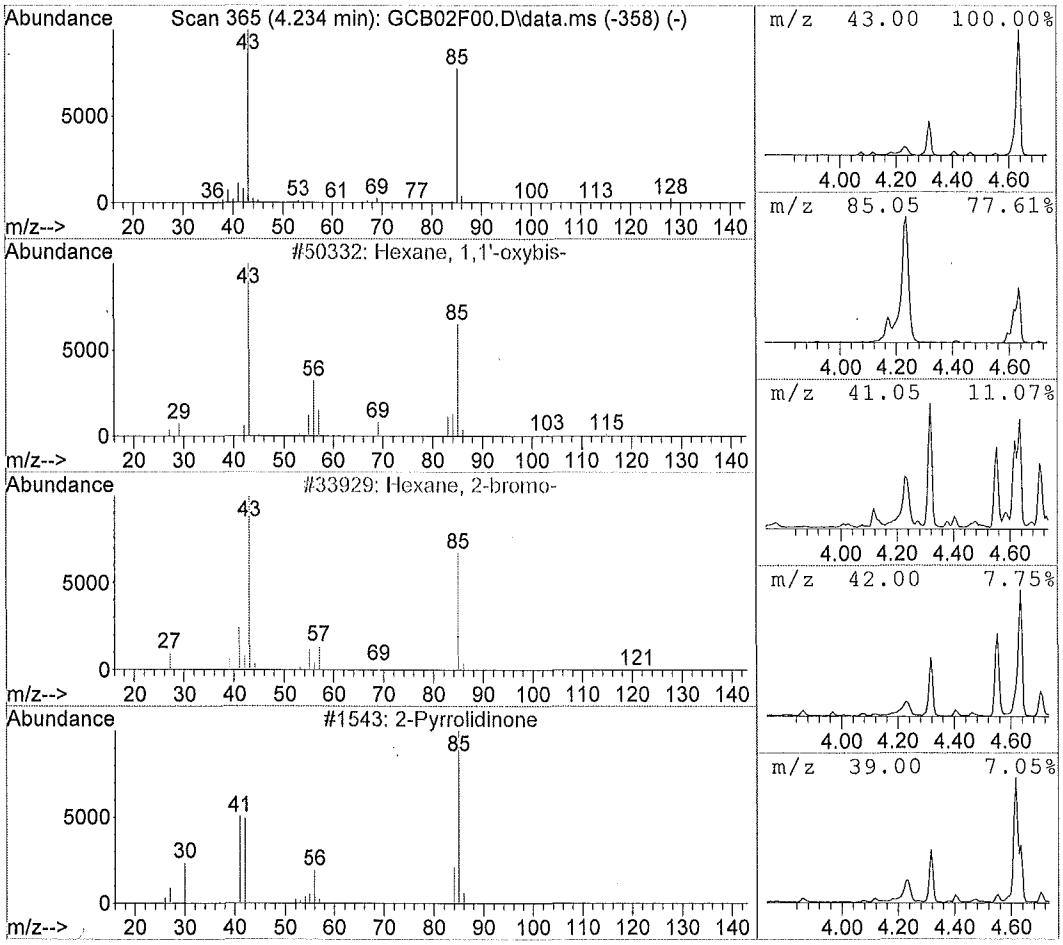
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB02F00.D Vial: 24
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.23	12.95 ug/ml	1390268	1,4-Dichlorobenzene-d4	2146316

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 1,1'-oxybis-	50332	000112-58-3	43.00
2	Hexane, 2-bromo-	33929	003377-86-4	43.00
3	2-Pyrrolidinone	1543	000616-45-5	9.00
4	2(3H)-Furanone, dihydro-5-propyl-	12280	000105-21-5	9.00
5	2-Pentanone	1706	000107-87-9	9.00

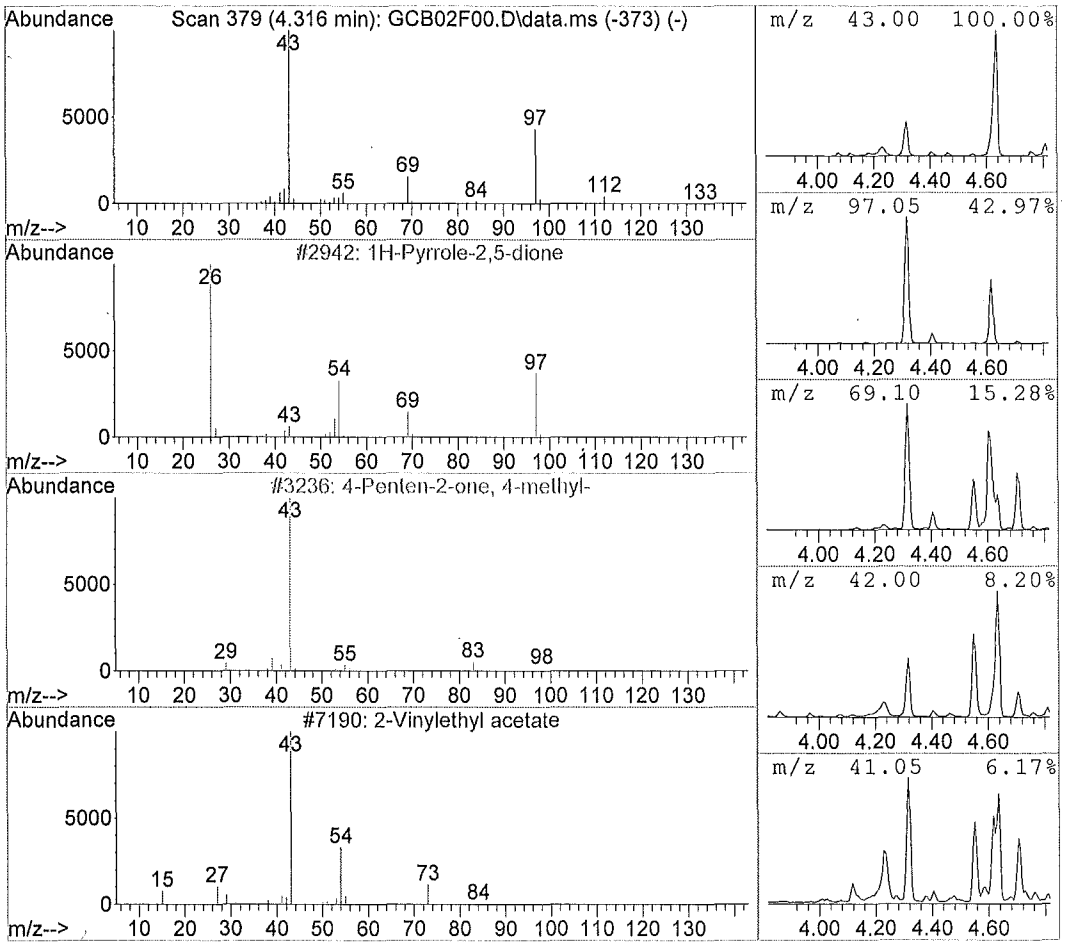


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB02F00.D Vial: 24
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.32	25.61 ug/ml	2748328	1,4-Dichlorobenzene-d4	2146316

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	40.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	2-Vinylethyl acetate	7190	001576-84-7	9.00
4	5-Hexen-2-one	3158	000109-49-9	9.00
5	2,6,6-Trimethyl-bicyclo[3.1.1]hept-	26216	069460-11-3	9.00



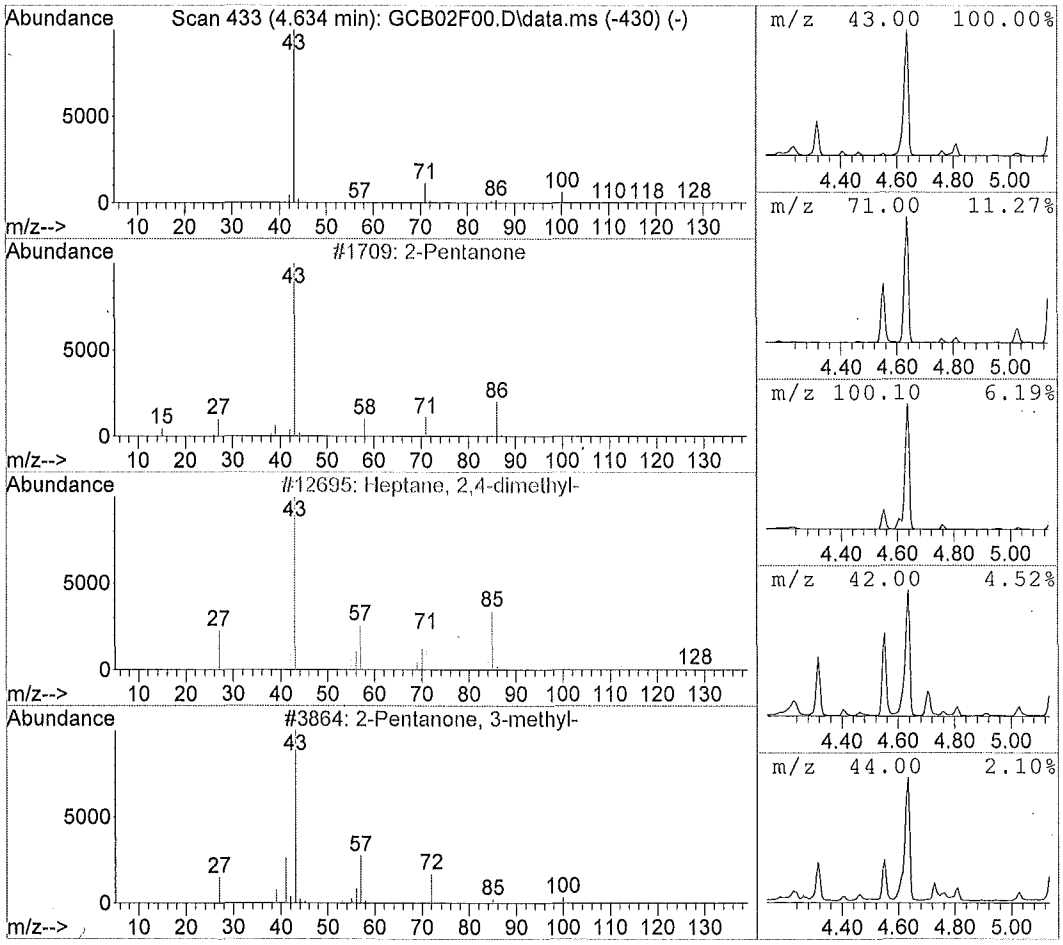
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB02F00.D Vial: 24
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.63	63.22 ug/ml	6784079	1,4-Dichlorobenzene-d4	2146316

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone	1709	000107-87-9	9.00
2	Heptane, 2,4-dimethyl-	12695	002213-23-2	5.00
3	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
4	3-Hexanone	3776	000589-38-8	5.00
5	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00



Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB02F00.D Vial: 24
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.81	6.33 ug/ml	679082	1,4-Dichlorobenzene-d4	2146316

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	5.00
2	Octane, 2-methyl-	12672	003221-61-2	4.00
3	2-Pentanone	1710	000107-87-9	4.00
4	2-Butanone, 3-methyl-	1764	000563-80-4	4.00
5	Octane, 4-methyl-	12674	002216-34-4	3.00

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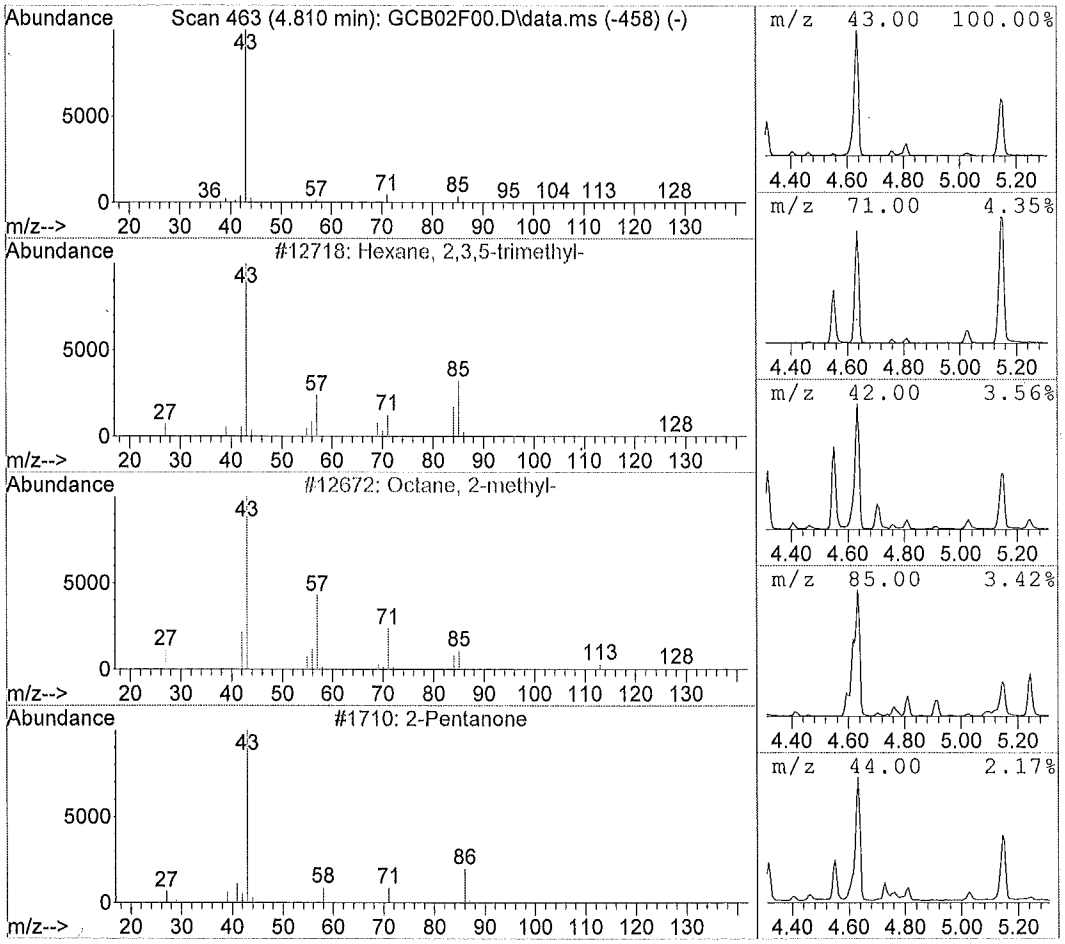

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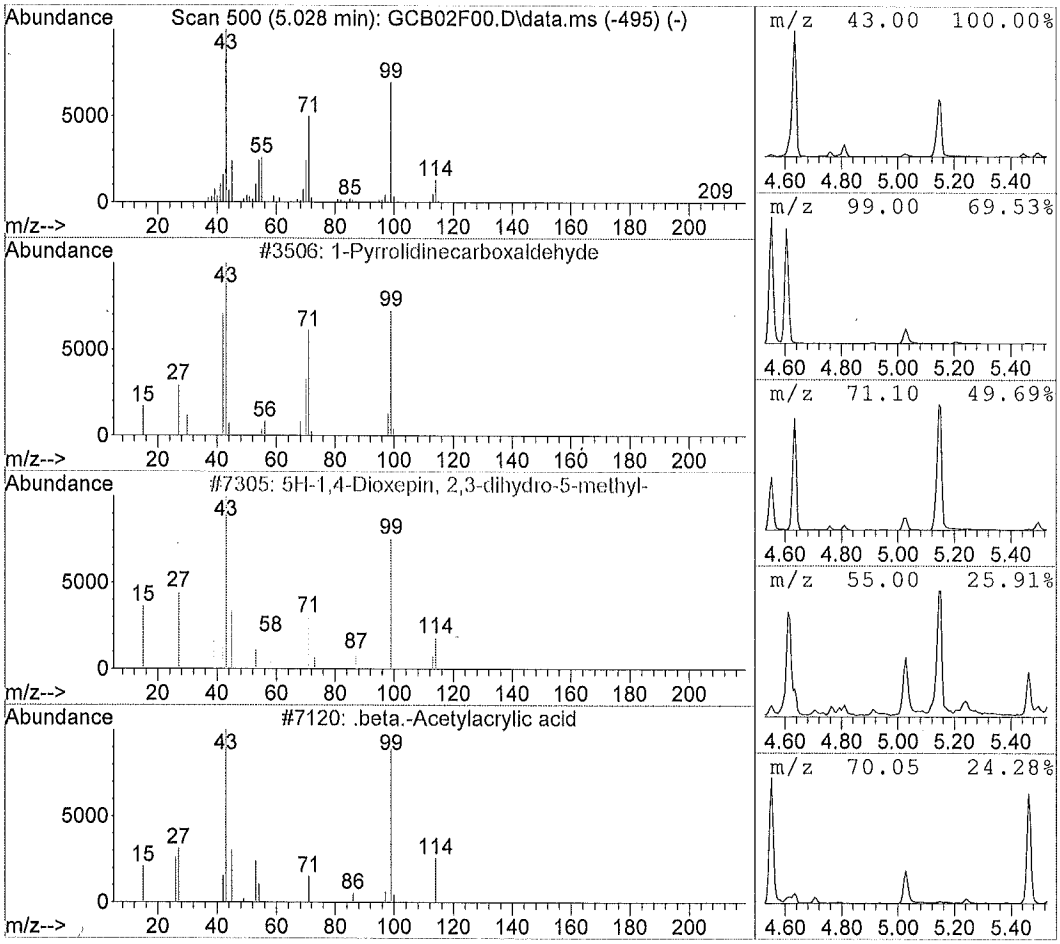
Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB02F00.D Vial: 24
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.03	6.38 ug/ml	684928	1,4-Dichlorobenzene-d4	2146316

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Pyrrolidinecarboxaldehyde	3506	003760-54-1	47.00
2	5H-1,4-Dioxepin, 2,3-dihydro-5-meth	7305	038653-36-0	46.00
3	.beta.-Acetylacrylic acid	7120	004743-82-2	43.00
4	4-Methylthiazole	3459	000693-95-8	38.00
5	2H-Pyran-2-one, tetrahydro-6-pentyl	38050	000705-86-2	38.00

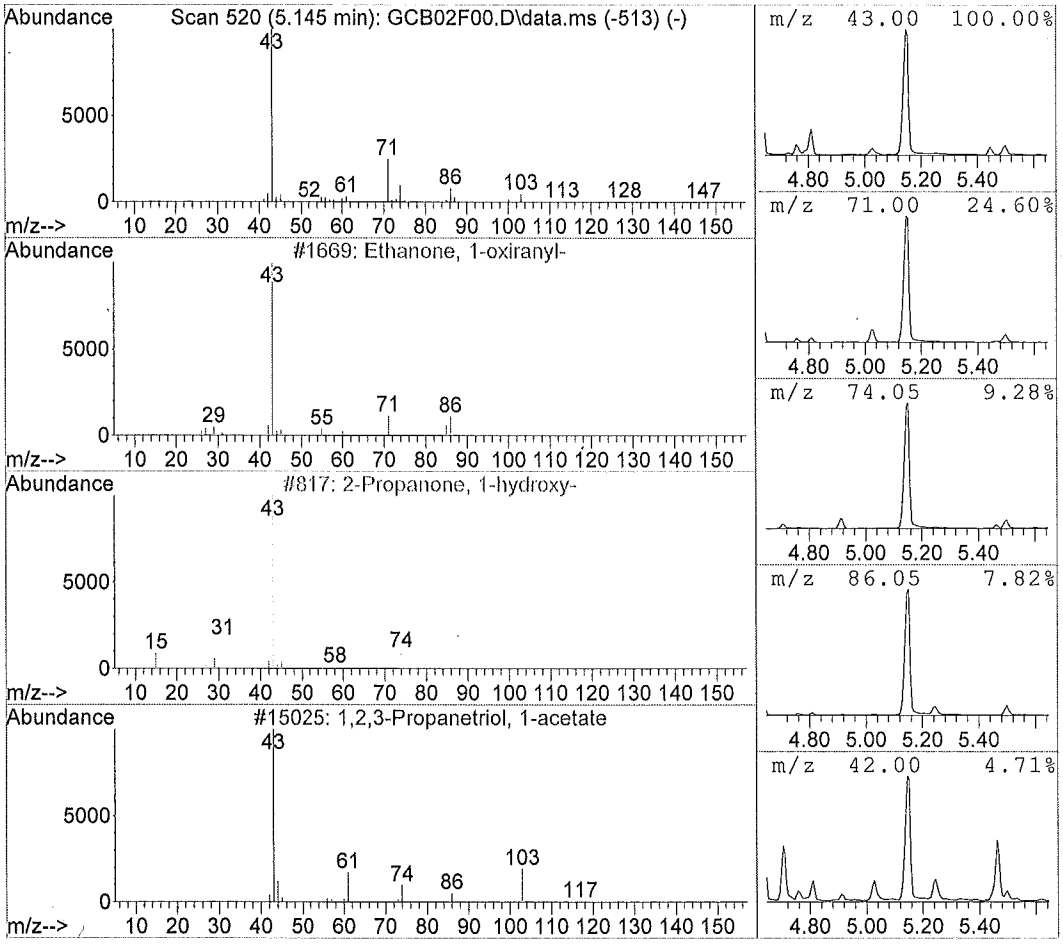


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB02F00.D Vial: 24
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.15	47.67 ug/ml	5115296	1,4-Dichlorobenzene-d4	2146316

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanone, 1-oxiranyl-	1669	004401-11-0	38.00
2	2-Propanone, 1-hydroxy-	817	000116-09-6	27.00
3	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	23.00
4	Butanoic acid, 3-hydroxy-, methyl e	8732	053562-86-0	12.00
5	Butanoic acid, 3-hydroxy-, methyl e	8724	001487-49-6	12.00

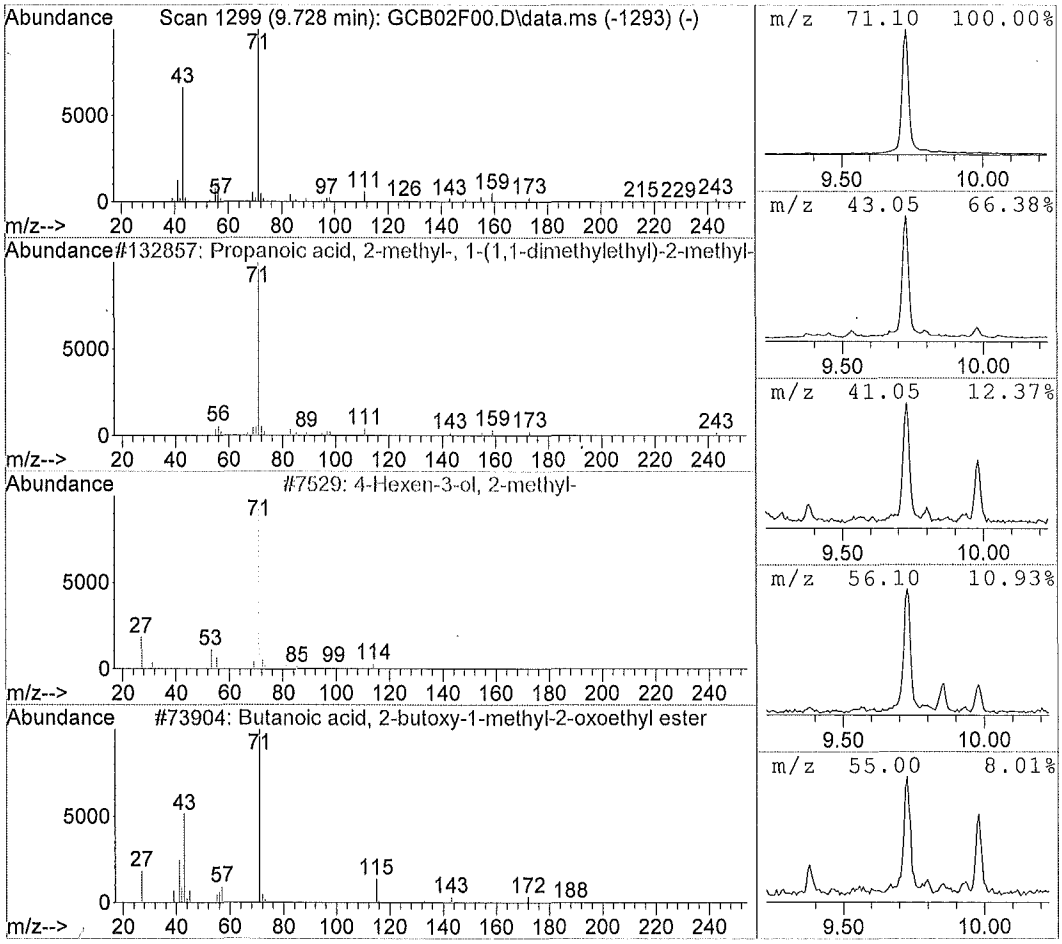


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB02F00.D Vial: 24
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.73	5.63 ug/ml	825056	Acenaphthene-d10	2929377

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propanoic acid, 2-methyl-, 1-(1,1-d	132857	074381-40-1	64.00
2	4-Hexen-3-ol, 2-methyl-	7529	004798-60-1	53.00
3	Butanoic acid, 2-butoxy-1-methyl-2-	73904	007492-70-8	50.00
4	2-Furanmethanol, tetrahydro-, aceta	20688	000637-64-9	45.00
5	Fumaric acid, nonyl tetrahydrofurfu	165761	1000330-58-3	45.00

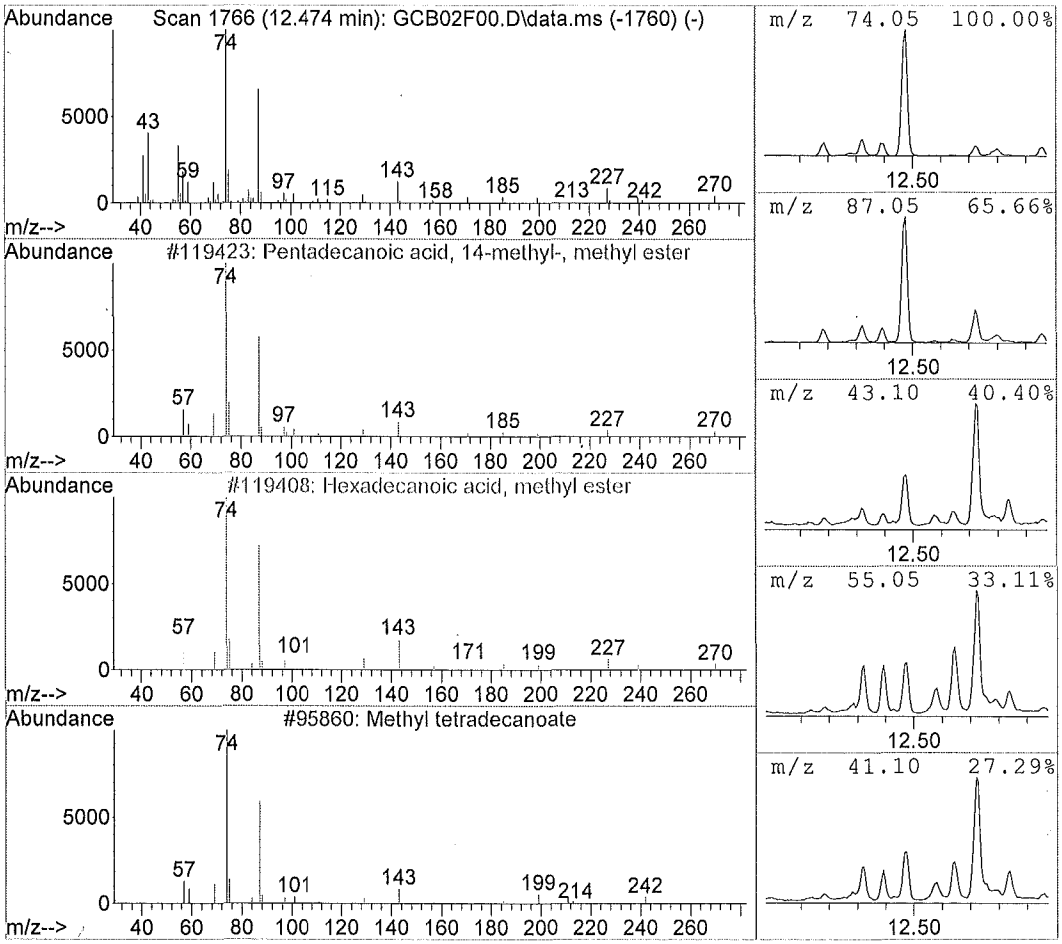


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB02F00.D Vial: 24
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.47	5.66 ug/ml	862233	Phenanthrene-d10	3046959

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	98.00
2	Hexadecanoic acid, methyl ester	119408	000112-39-0	97.00
3	Methyl tetradecanoate	95860	000124-10-7	93.00
4	Pentadecanoic acid, methyl ester	107596	007132-64-1	86.00
5	Dodecanoic acid, methyl ester	72681	000111-82-0	86.00



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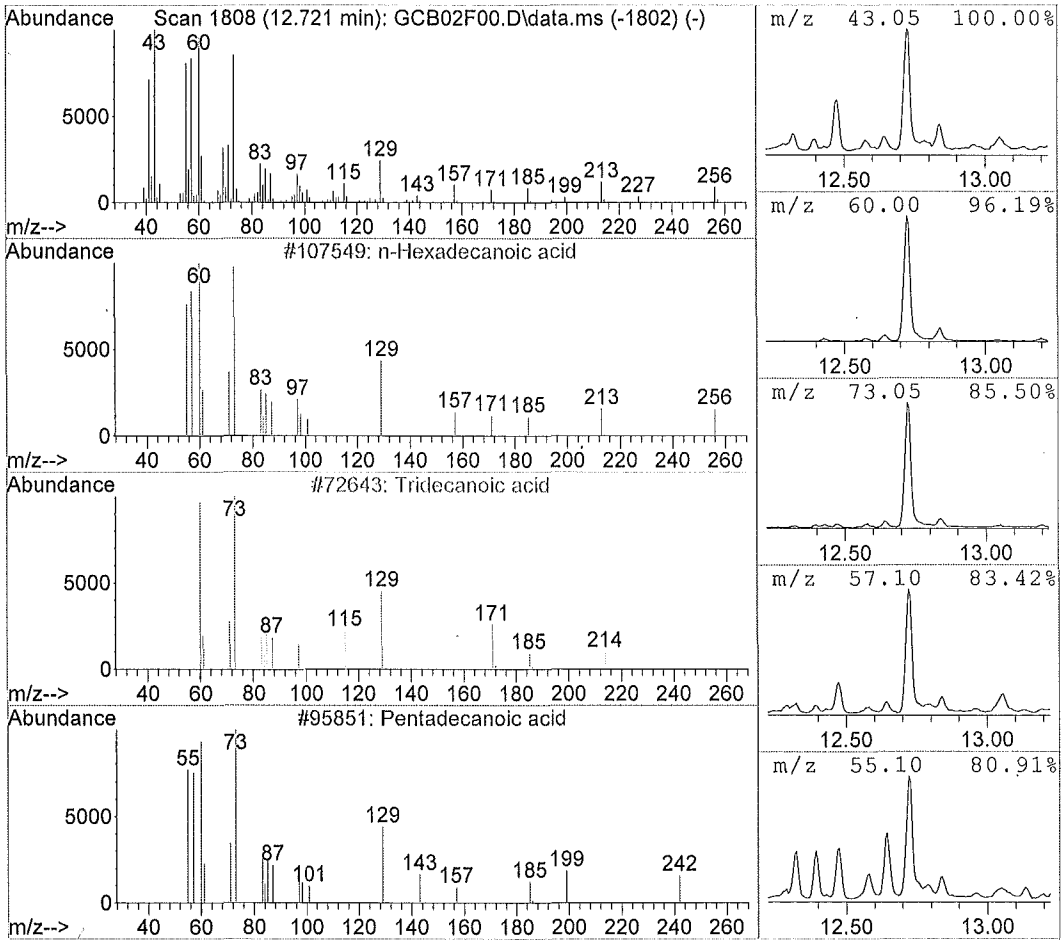
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.72	14.11 ug/ml	2150094	Phenanthrene-d10	3046959

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Tridecanoic acid	72643	000638-53-9	93.00
3	Pentadecanoic acid	95851	001002-84-2	86.00
4	Undecanoic acid	50051	000112-37-8	80.00
5	Octanoic acid, silver(1+) salt	102674	024927-67-1	53.00



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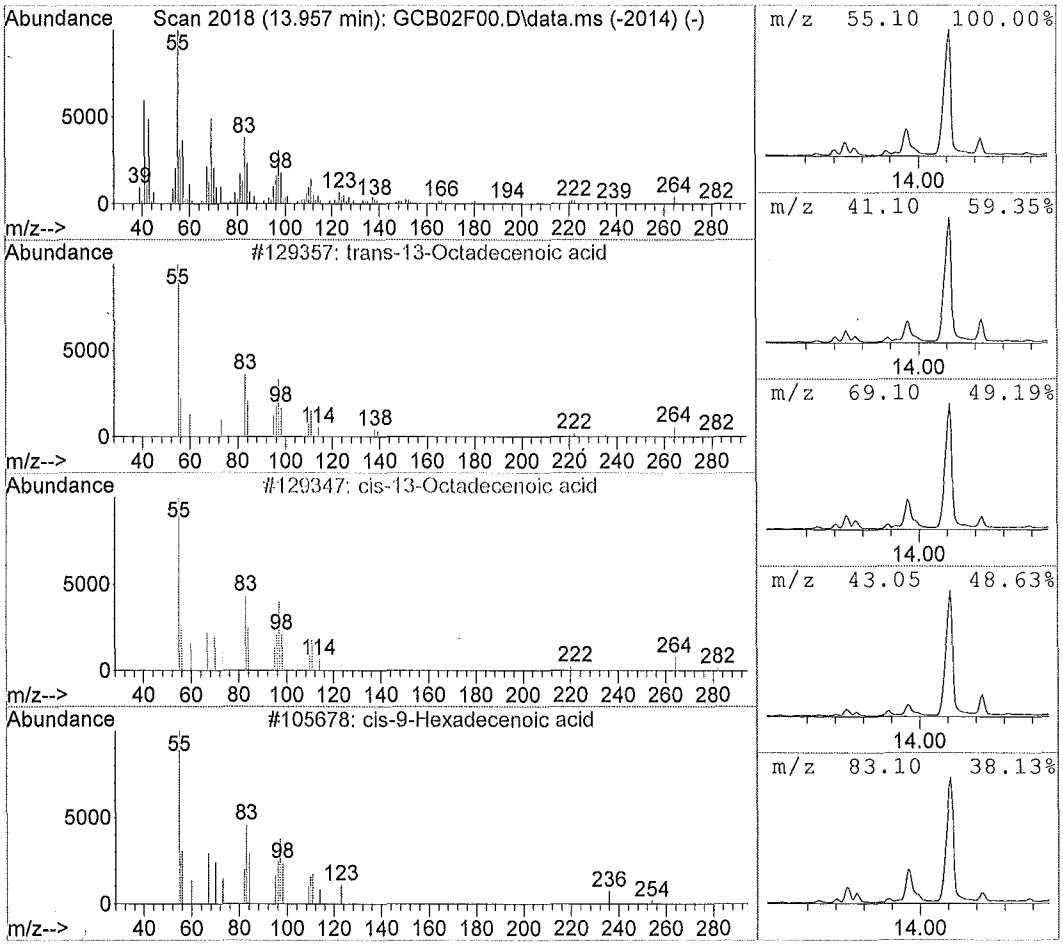
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.96	12.28 ug/ml	2225597	Chrysene-d12	3624300

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	trans-13-Octadecenoic acid	129357	000693-71-0	98.00
2	cis-13-Octadecenoic acid	129347	013126-39-1	95.00
3	cis-9-Hexadecenoic acid	105678	1000333-19-5	91.00
4	Oleic Acid	129338	000112-80-1	91.00
5	9-octadecanoic acid, 2,2,3,3,4,4,4-	229917	1000376-61-4	87.00



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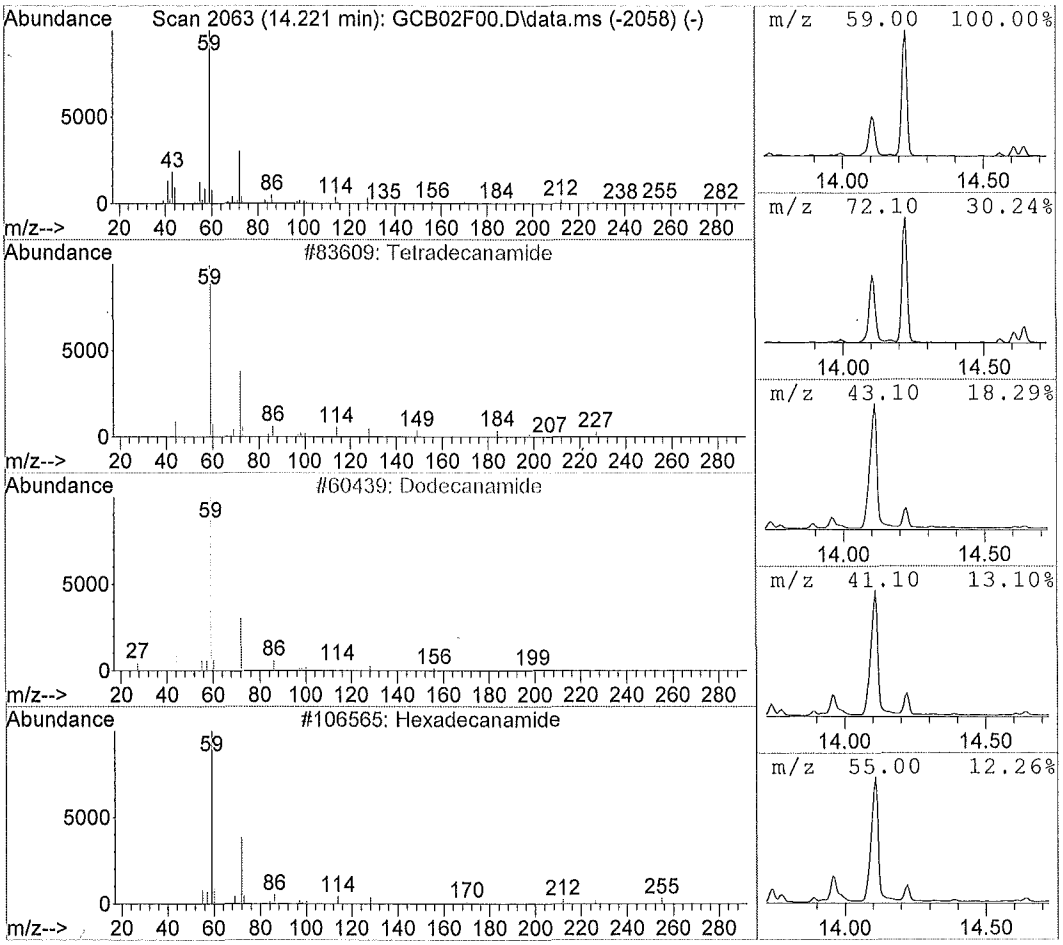
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.22	11.87 ug/ml	2151006	Chrysene-d12	3624300

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83609	000638-58-4	94.00
2	Dodecanamide	60439	001120-16-7	90.00
3	Hexadecanamide	106565	000629-54-9	87.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
5	Nonanamide	29478	001120-07-6	83.00



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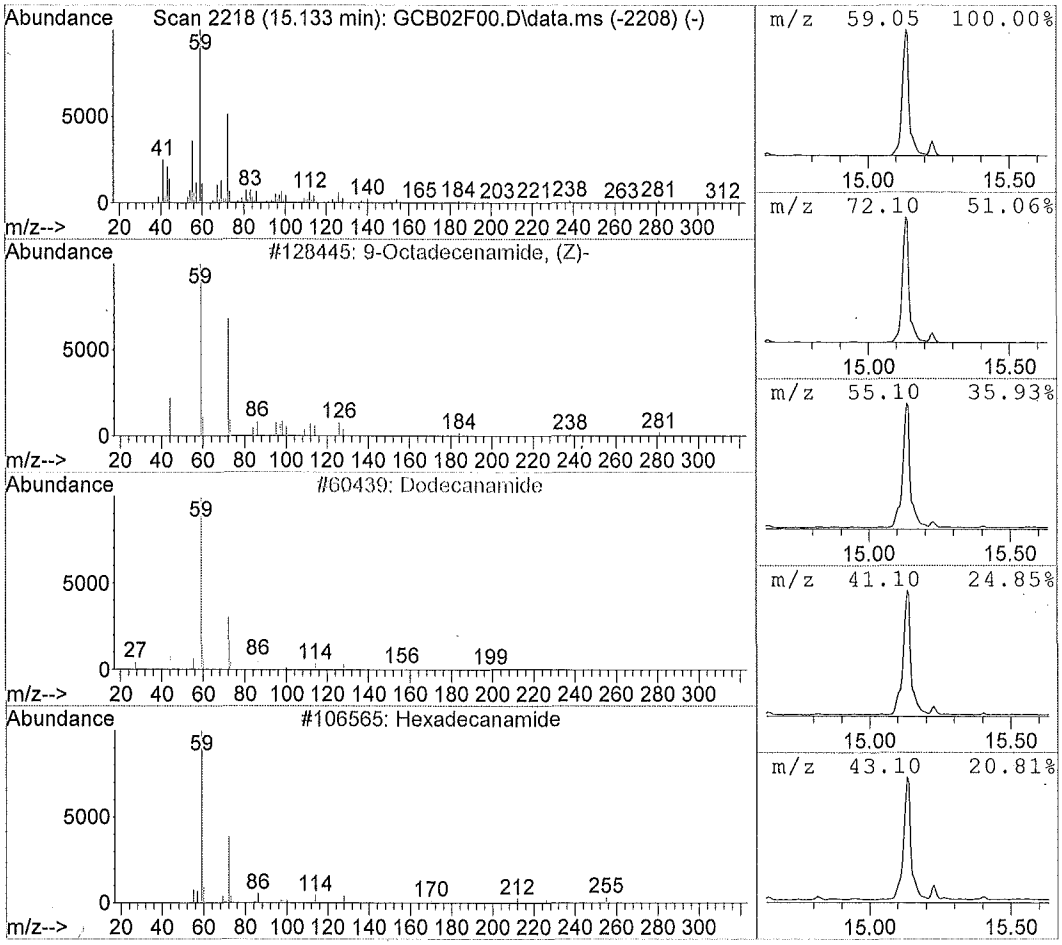
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.13	119.83 ug/ml	21715191	Chrysene-d12	3624300

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Dodecanamide	60439	001120-16-7	59.00
3	Hexadecanamide	106565	000629-54-9	56.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	56.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	53.00



Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB02F00.D Vial: 24
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.58	5.07 ug/ml	918704	Chrysene-d12	3624300

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane	83025	000544-76-3	93.00
2	Hexacosane	194494	000630-01-3	91.00
3	Eicosane, 3-methyl-	141428	006418-46-8	90.00
4	Pentadecane	71393	000629-62-9	87.00
5	Octacosane	209566	000630-02-4	87.00

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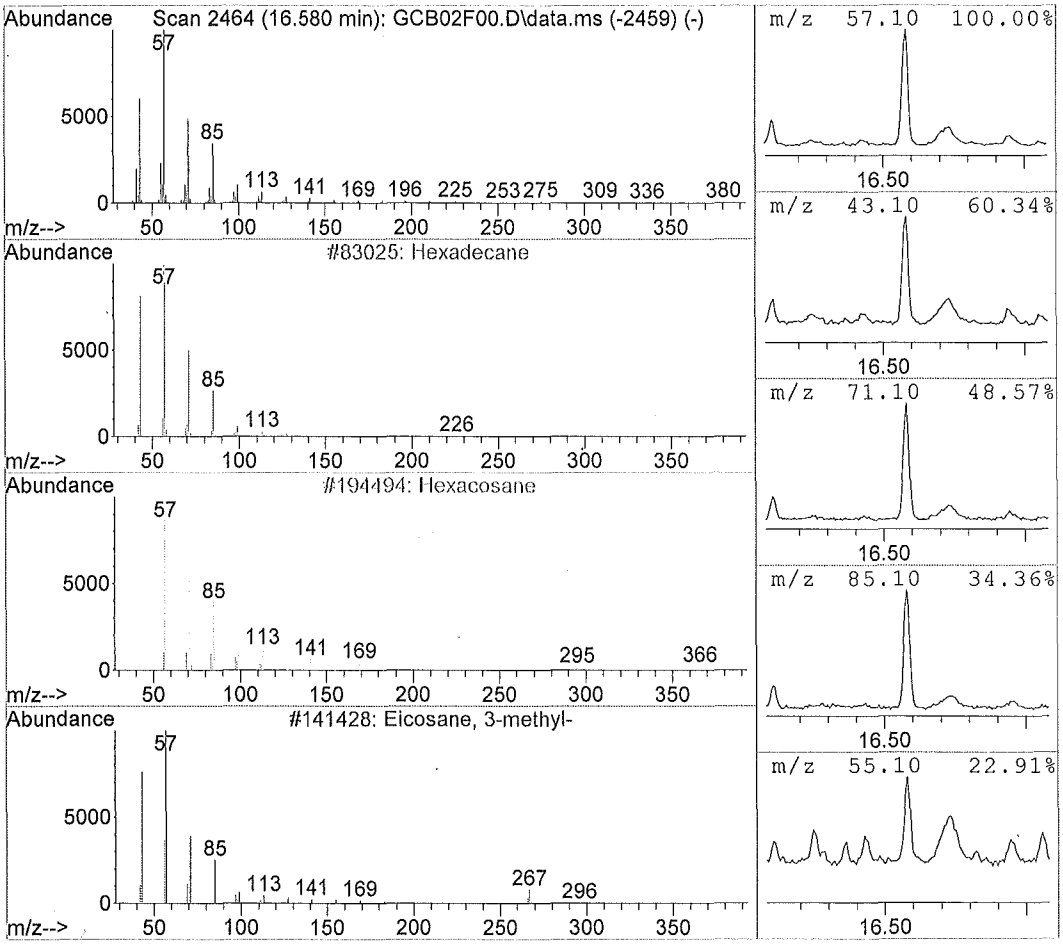


88914

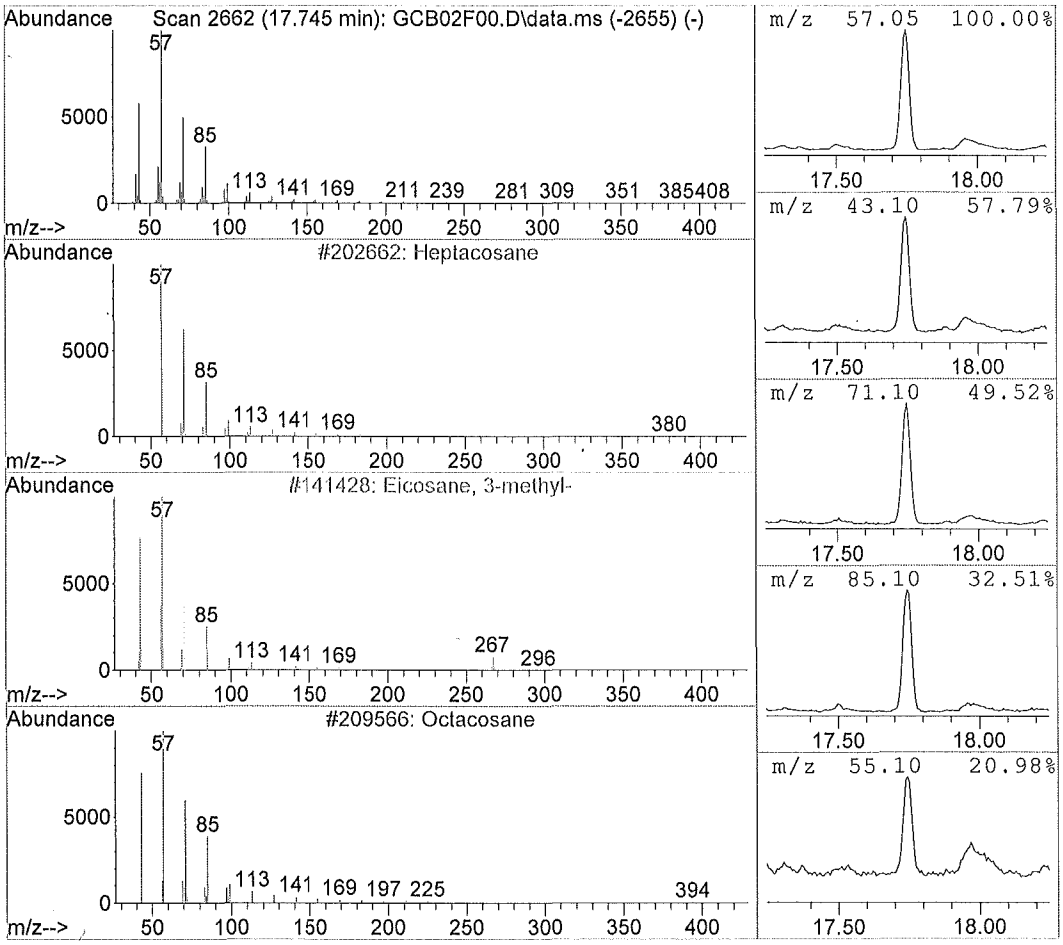
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB02F00.D Vial: 24
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.74	14.96 ug/ml	1958173	Perylene-d12	2617379

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1 Heptacosane	5A	202662	000593-49-7	91.00
2 Eicosane, 3-methyl-		141428	006418-46-8	91.00
3 Octacosane		209566	000630-02-4	91.00
4 Hentriacontane		223852	000630-04-6	91.00
5 Pentadecane, 8-hexyl-		141433	013475-75-7	91.00



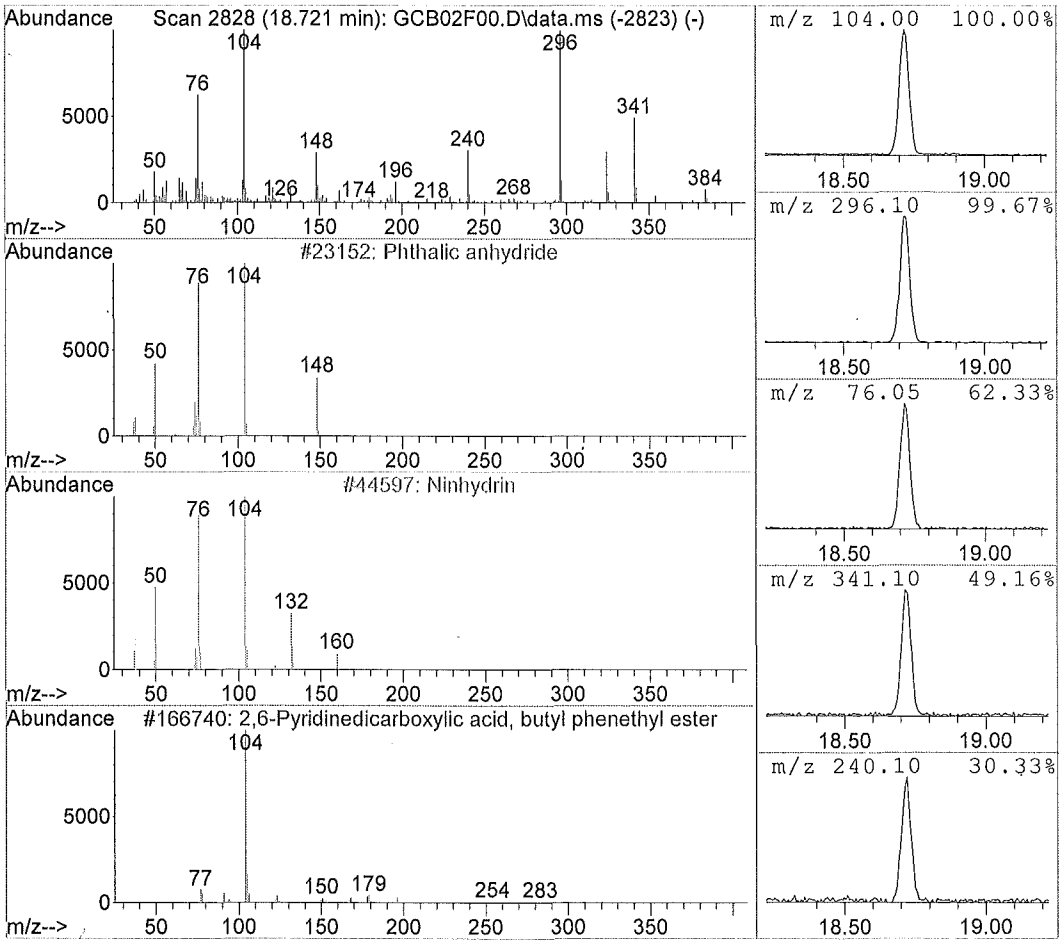
00315

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB02F00.D Vial: 24
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.72	5.49 ug/ml	718206	Perylene-d12	2617379

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23152	000085-44-9	27.00
2	Ninhydrin	44597	000485-47-2	22.00
3	2,6-Pyridinedicarboxylic acid, buty	166740	1000369-22-4	10.00
4	(2-Methylphenyl) methanol, n-pentyl	54617	1000374-70-7	10.00
5	Oxalic acid, heptyl 2-phenylethyl e	137747	1000309-66-1	10.00



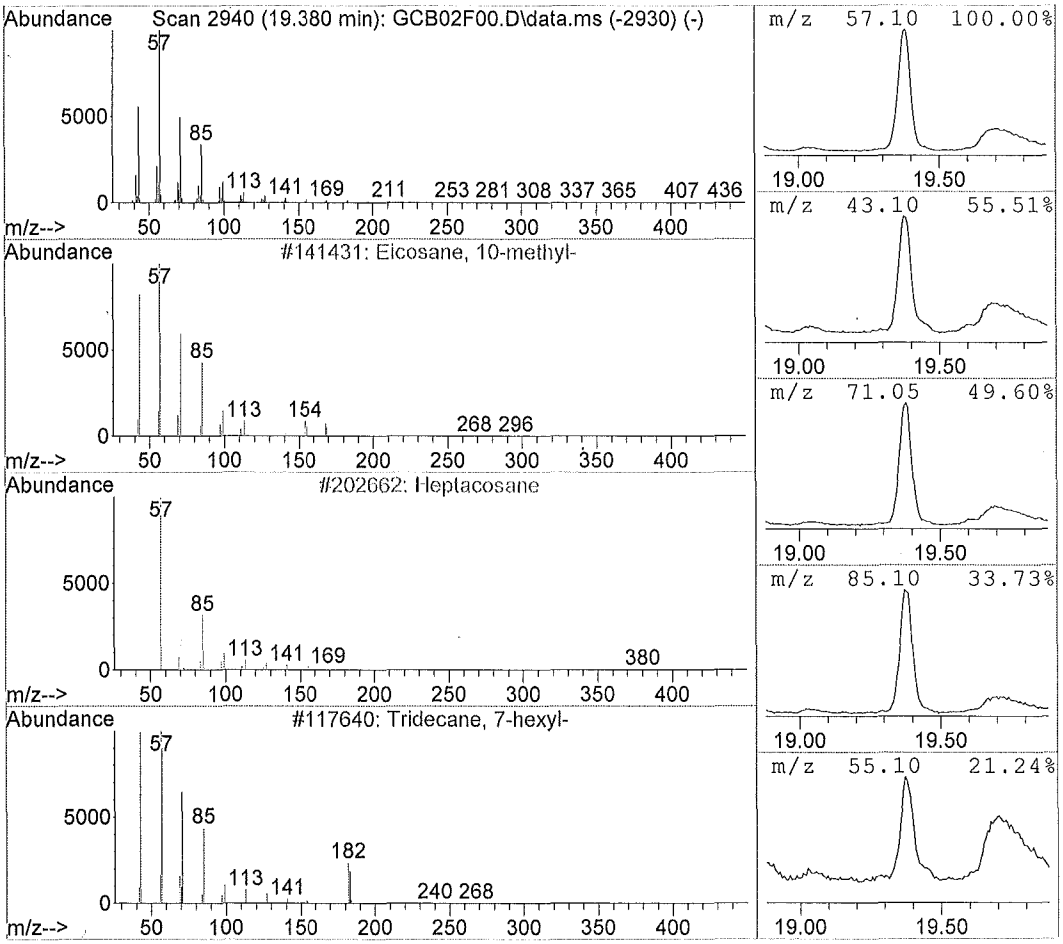
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB02F00.D Vial: 24
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.38	21.19 ug/ml	2773205	Perylene-d12	2617379

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1 Eicosane, 10-methyl-	BA	141431	054833-23-7	93.00
2 Heptacosane		202662	000593-49-7	91.00
3 Tridecane, 7-hexyl-		117640	007225-66-3	91.00
4 Pentacosane		185533	000629-99-2	91.00
5 Hentriacontane		223852	000630-04-6	91.00



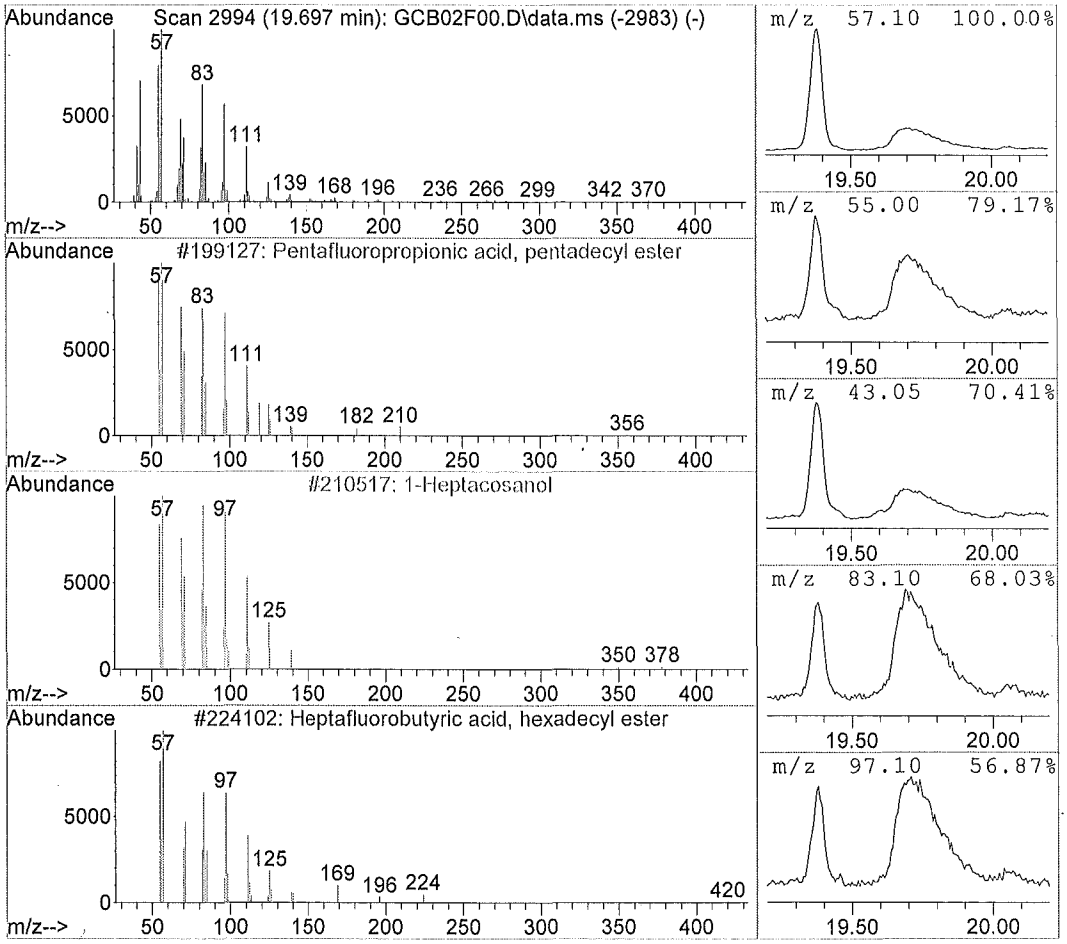
: 00317

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB02F00.D Vial: 24
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.70	25.83 ug/ml	3380806	Perylene-d12	2617379

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentafluoropropionic acid, pentadec	199127	959092-08-1	90.00
2	1-Heptacosanol	210517	002004-39-9	90.00
3	Heptafluorobutyric acid, hexadecyl	224102	006385-15-5	90.00
4	1-Docosene	151538	001599-67-3	80.00
5	Z-5-Nonadecene	115907	1000131-11-8	74.00



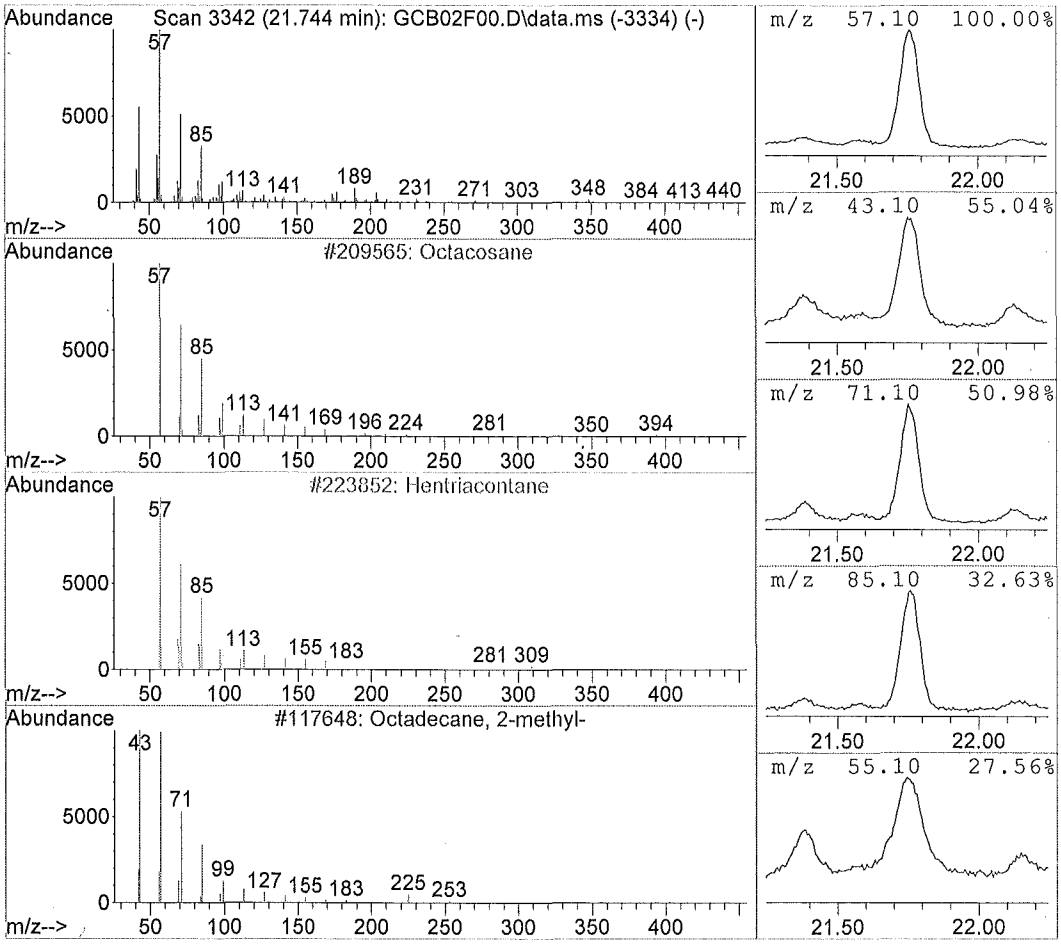
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB02F00.D Vial: 24
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.74	28.16 ug/ml	3685277	Perylene-d12	2617379

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1 Octacosane	SA	209565	000630-02-4	90.00
2 Hentriacontane		223852	000630-04-6	83.00
3 Octadecane, 2-methyl-		117648	001560-88-9	83.00
4 Heptacosane		202662	000593-49-7	83.00
5 3,5-Dimethyldodecane		59888	107770-99-0	81.00

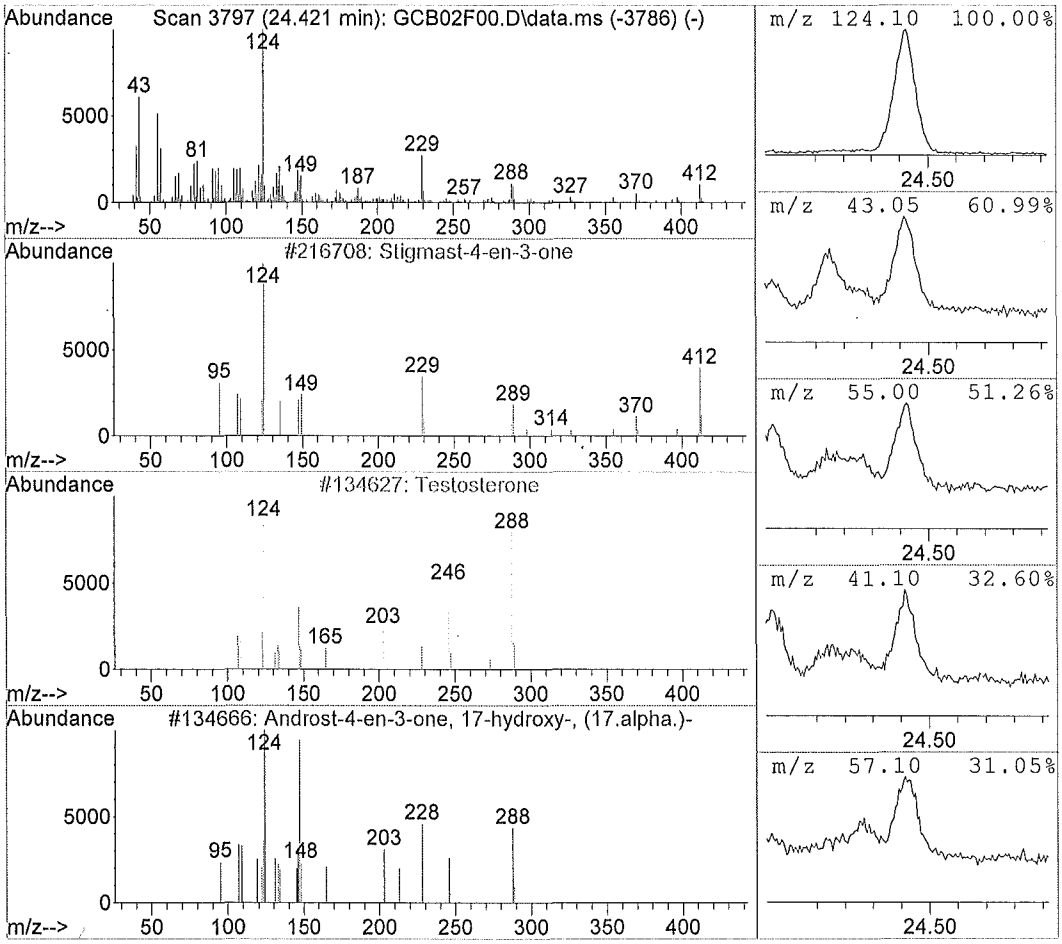


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB02F00.D Vial: 24
Acq On : 06/23/2015 17:37 Operator: TJM
Sample : 1515725001 F9K00 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.42	11.61 ug/ml	1518962	Perylene-d12	2617379

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmast-4-en-3-one	216708	001058-61-3	86.00
2	Testosterone	134627	000058-22-0	78.00
3	Androst-4-en-3-one, 17-hydroxy-, (1	134666	000481-30-1	51.00
4	Butyric acid, m-methoxyphenyl ester	55948	014617-94-8	38.00
5	4H-Pyran-4-one, 3,5-dimethyl-	10451	019083-61-5	38.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M82

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725002

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCB03F82

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/23/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	210	U
108-95-2	Phenol	210	U
111-44-4	Bis(2-chloroethyl)ether	210	U
95-57-8	2-Chlorophenol	210	U
95-48-7	2-Methylphenol	210	U
108-60-1	2,2'-Oxybis(1-chloropropane)	210	U
98-86-2	Acetophenone	210	U
106-44-5	4-Methylphenol	210	U
621-64-7	N-Nitroso-di-n-propylamine	210	U
67-72-1	Hexachloroethane	210	U
98-95-3	Nitrobenzene	210	U
78-59-1	Isophorone	210	U
88-75-5	2-Nitrophenol	210	U
105-67-9	2,4-Dimethylphenol	210	U
111-91-1	Bis(2-chloroethoxy)methane	210	U
120-83-2	2,4-Dichlorophenol	210	U
91-20-3	Naphthalene	210	U
106-47-8	4-Chloroaniline	210	U
87-68-3	Hexachlorobutadiene	210	U
105-60-2	Caprolactam	210	U
59-50-7	4-Chloro-3-methylphenol	210	U
91-57-6	2-Methylnaphthalene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U
92-52-4	1,1'-Biphenyl	210	U
91-58-7	2-Chloronaphthalene	210	U
88-74-4	2-Nitroaniline	410	U
131-11-3	Dimethylphthalate	210	U
606-20-2	2,6-Dinitrotoluene	210	U
208-96-8	Acenaphthylene	210	U
99-09-2	3-Nitroaniline	410	U
83-32-9	Acenaphthene	210	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M82

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725002

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCB03F82

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/23/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	410	U
100-02-7	4-Nitrophenol	410	U
132-64-9	Dibenzofuran	210	U
121-14-2	2,4-Dinitrotoluene	210	U
84-66-2	Diethylphthalate	210	U
86-73-7	Fluorene	210	U
7005-72-3	4-Chlorophenyl-phenylether	210	U
100-01-6	4-Nitroaniline	410	U
534-52-1	4,6-Dinitro-2-methylphenol	410	U
86-30-6	N-Nitrosodiphenylamine[1]	210	U
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U
101-55-3	4-Bromophenyl-phenylether	210	U
118-74-1	Hexachlorobenzene	210	U
1912-24-9	Atrazine	210	U
87-86-5	Pentachlorophenol	410	U
85-01-8	Phenanthrene	210	U
120-12-7	Anthracene	210	U
86-74-8	Carbazole	210	U
84-74-2	Di-n-butylphthalate	210	U
206-44-0	Fluoranthene	210	U
129-00-0	Pyrene	210	U
85-68-7	Butylbenzylphthalate	210	U
91-94-1	3,3'-Dichlorobenzidine	210	U
56-55-3	Benzo(a)anthracene	210	U
218-01-9	Chrysene	210	U
117-81-7	Bis(2-ethylhexyl)phthalate	210	U
117-84-0	Di-n-octylphthalate	210	U
205-99-2	Benzo(b)fluoranthene	19.	J
207-08-9	Benzo(k)fluoranthene	210	U
50-32-8	Benzo(a)pyrene	210	U
193-39-5	Indeno(1,2,3-cd)pyrene	210	U
53-70-3	Dibenzo(a,h)anthracene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
58-90-2	2,3,4,6-Tetrachlorophenol	210	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M82

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725002
Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCB03F82
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 20. Decanted: (Y/N) N Date Received: 06/05/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/23/2015
GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	814-78-8	3-Buten-2-one, 3-methyl-	2.24	220	JN
02		Unknown Furan, tetrahydro-2-(methoxymethyl)-	2.32	250	J
03		Unknown Pentane, 2-bromo-4-methyl-	2.85	250	J
04		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.53	5600	JB
05		Unknown 2(3H)-Furanone, 5-acetyldihydro-	4.23	580	J
06		Unknown 1H-Pyrrole-2,5-dione	4.32	810	J
07		Unknown C2H5C(CH3)2COCH3	5.14	1200	J
08	1000336-31-4	Methyl 13-methyltetradecanoate	11.37	200	JN
09	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	12.32	310	JN
10	5129-60-2	Pentadecanoic acid, 14-methyl-, methyl ester	12.47	370	JN
11	373-49-9	Palmitoleic acid	12.58	210	JN
12	57-10-3	n-Hexadecanoic acid	12.73	700	JN
13	1120-16-7	Dodecanamide	14.21	480	JN
14	301-02-0	9-Octadecenamide, (Z)-	15.14	5300	JNB
15	638-58-4	Tetradecanamide	15.23	190	JN
16	301-02-0	9-Octadecenamide, (Z)-	17.06	370	JN
17	111-02-4	Squalene	17.24	250	JN
18		Unknown Phthalic anhydride	18.72	810	J
19	83-46-5	.beta.-Sitosterol	22.52	770	JN
20	1058-61-3	Stigmast-4-en-3-one	24.44	1200	JN
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	5800	J

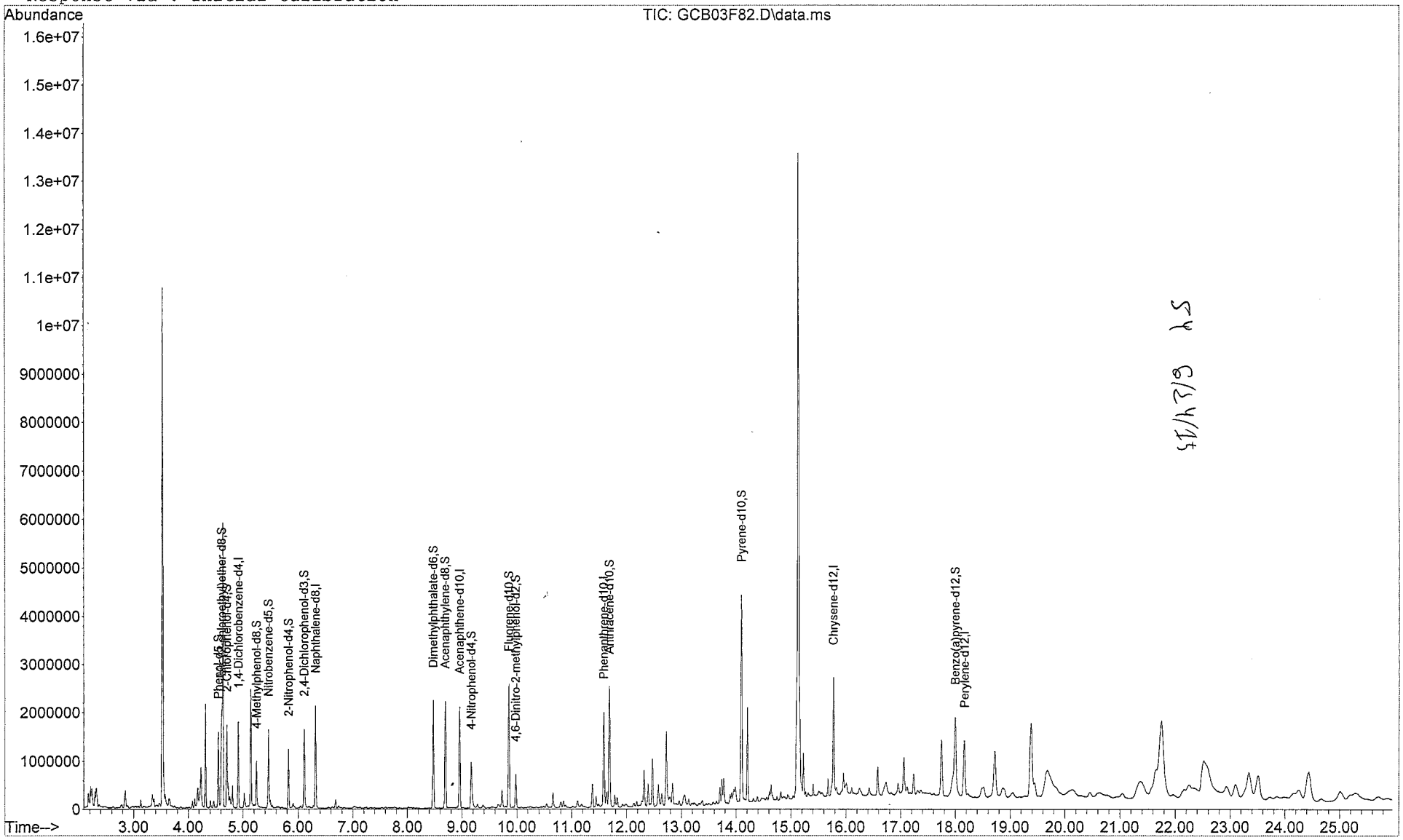
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB03F82.D Vial: 25
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 24 14:25:33 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration



6/24/15 LS

GCB03F82.D GSOM01D6.M Wed Jun 24 14:25:41 2015 Page 3

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB03F82.D Vial: 25
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 24 14:25:33 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.92	152	281914	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1091443	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	639160	20.00 ug/ml
59) Phenanthrene-d10	11.59	188	1080732	20.00 ug/ml
73) Chrysene-d12	15.78	240	1083383	20.00 ug/ml
81) Perylene-d12	18.16	264	866136	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.55	99	550884	22.455ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	344927	18.042ug/mL
7) 2-Chlorophenol-d4	4.70	132	446368	21.549ug/ml
13) 4-Methylphenol-d8	5.25	113	213770	13.028ug/mL
17) Nitrobenzene-d5	5.46	128	203162	21.189ug/ml
21) 2-Nitrophenol-d4	5.83	143	221530	21.859ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	384733	24.380ug/mL
28) 4-Chloroaniline-d4	6.41	131	1702	0.099ug/mL
42) Dimethylphthalate-d6	8.47	166	1133413	28.279ug/mL
45) Acenaphthylene-d8	8.70	160	1374919	25.243ug/mL
50) 4-Nitrophenol-d4	9.17	143	235026	28.744ug/mL
57) Fluorene-d10	9.86	176	962312	28.115ug/mL
61) 4,6-Dinitro-2-methylphenol	9.98	200	118742	15.480ug/mL
69) Anthracene-d10	11.69	188	1450769	25.314ug/mL
75) Pyrene-d10	14.10	212	1514086	28.004ug/mL
86) Benzo(a)pyrene-d12	18.00	264	1029634	24.808ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77	Not Detected	
4) Phenol	0.00	94	Not Detected	
5) Bis(2-chloroethyl)ether	0.00	93	Not Detected	
8) 2-Chlorophenol	0.00	128	Not Detected	
9) 2-Methylphenol	0.00	108	Not Detected	
10) 2,2'-Oxybis-(1-chloropropa	0.00	45	Not Detected	
11) Acetophenone	0.00	105	Not Detected	
12) 4-methylphenol	0.00	108	Not Detected	
14) N-Nitroso-di-n-propylamine	0.00	70	Not Detected	
15) Hexachloroethane	0.00	117	Not Detected	
18) Nitrobenzene	0.00	77	Not Detected	
19) Isophorone	0.00	82	Not Detected	
20) 2-Nitrophenol	0.00	139	Not Detected	
22) 2,4-Dimethylphenol	0.00	107	Not Detected	
23) Bis(2-chloroethoxy)methane	0.00	93	Not Detected	
24) 2,4-Dichlorophenol	0.00	162	Not Detected	
26) Naphthalene	0.00	128	Not Detected	
27) 4-Chloroaniline	0.00	127	Not Detected	
29) Hexachlorobutadiene	0.00	225	Not Detected	
30) Caprolactam	0.00	113	Not Detected	
31) 4-Chloro-3-methylphenol	0.00	107	Not Detected	
32) 2-Methylnaphthalene	0.00	142	Not Detected	
34) 1,2,4,5-Tetrachlorobenzene	0.00	216	Not Detected	
35) Hexachlorocyclopentadiene	0.00	237	Not Detected	
36) 2,4,6-Trichlorophenol	0.00	196	Not Detected	
37) 2,4,5-Trichlorophenol	0.00	196	Not Detected	
38) 1,1'-Biphenyl	0.00	154	Not Detected	
39) 2-Chloronaphthalene	0.00	162	Not Detected	
40) 2-Nitroaniline	0.00	65	Not Detected	
41) Dimethylphthalate	0.00	163	Not Detected	
43) 2,6-Dinitrotoluene	0.00	165	Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 88325

Quantitation Report

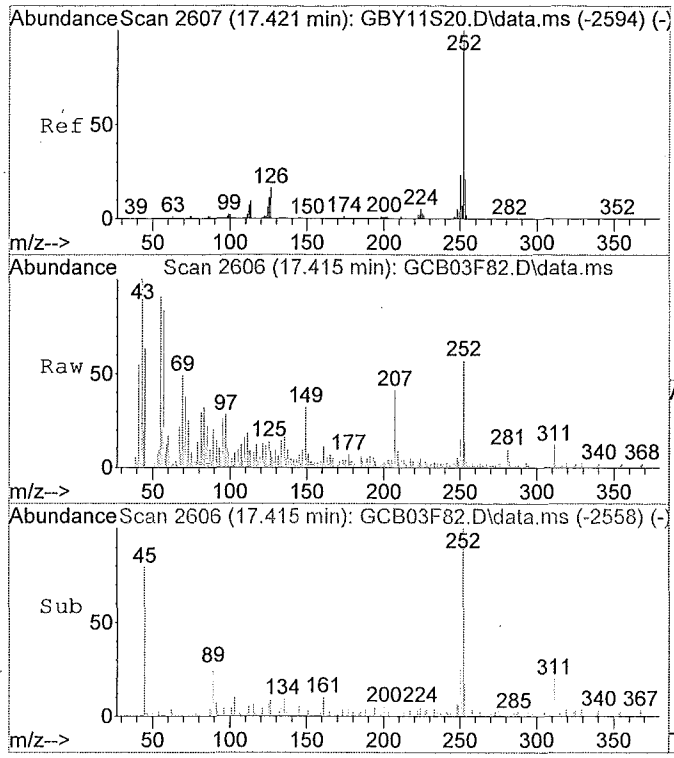
Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB03F82.D Vial: 25
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 24 14:25:33 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) Acenaphthylene	0.00	152		Not Detected	
46) 3-Nitroaniline	0.00	138		Not Detected	
47) Acenaphthene	0.00	153		Not Detected	
48) 2,4-Dinitrophenol	0.00	184		Not Detected	
49) 4-Nitrophenol	0.00	109		Not Detected	
51) Dibenzofuran	0.00	168		Not Detected	
52) 2,4-Dinitrotoluene	0.00	165		Not Detected	
53) 2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54) Diethylphthalate	0.00	149		Not Detected	
55) 4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56) Fluorene	0.00	166		Not Detected	
58) 4-Nitroaniline	0.00	138		Not Detected	
60) 4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62) N-Nitrosodiphenylamine	0.00	169		Not Detected	
63) 4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64) Hexachlorobenzene	0.00	284		Not Detected	
65) Atrazine	0.00	200		Not Detected	
66) Pentachlorophenol	0.00	266		Not Detected	
67) Phenanthrene	0.00	178		Not Detected	
68) Anthracene	0.00	178		Not Detected	
70) Carbazole	0.00	167		Not Detected	
71) Di-n-butylphthalate	0.00	149		Not Detected	
72) Fluoranthene	0.00	202		Not Detected	
74) Pyrene	0.00	202		Not Detected	
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	0.00	228		Not Detected	
79) Chrysene	0.00	228		Not Detected	
80) Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	17.42	252	25558	0.471ug/ml	95
84) Benzo(k)fluoranthene	0.00	252		Not Detected	
85) Benzo(a)pyrene	0.00	252		Not Detected	
87) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89) Benzo(g,h,i)perylene	0.00	276		Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

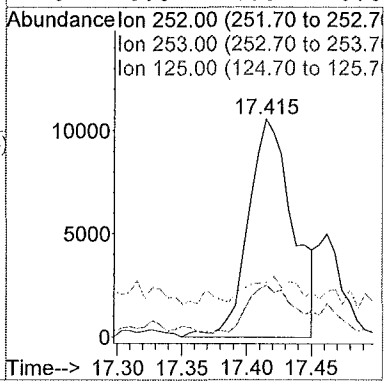
00320



#83
Benzo(b)fluoranthene
Concen: 0.47 ug/ml
RT: 17.42 min Scan# 2606
Delta R.T. -0.01 min
Lab File: GCB03F82.D
Acq: 06/23/2015 18:11

Tgt Ion:252 Resp: 25558

Ion	Ratio	Lower	Upper
252	100		
253	20.7	15.1	28.1
125	11.8	10.6	19.8
0	0.0	0.0	0.0



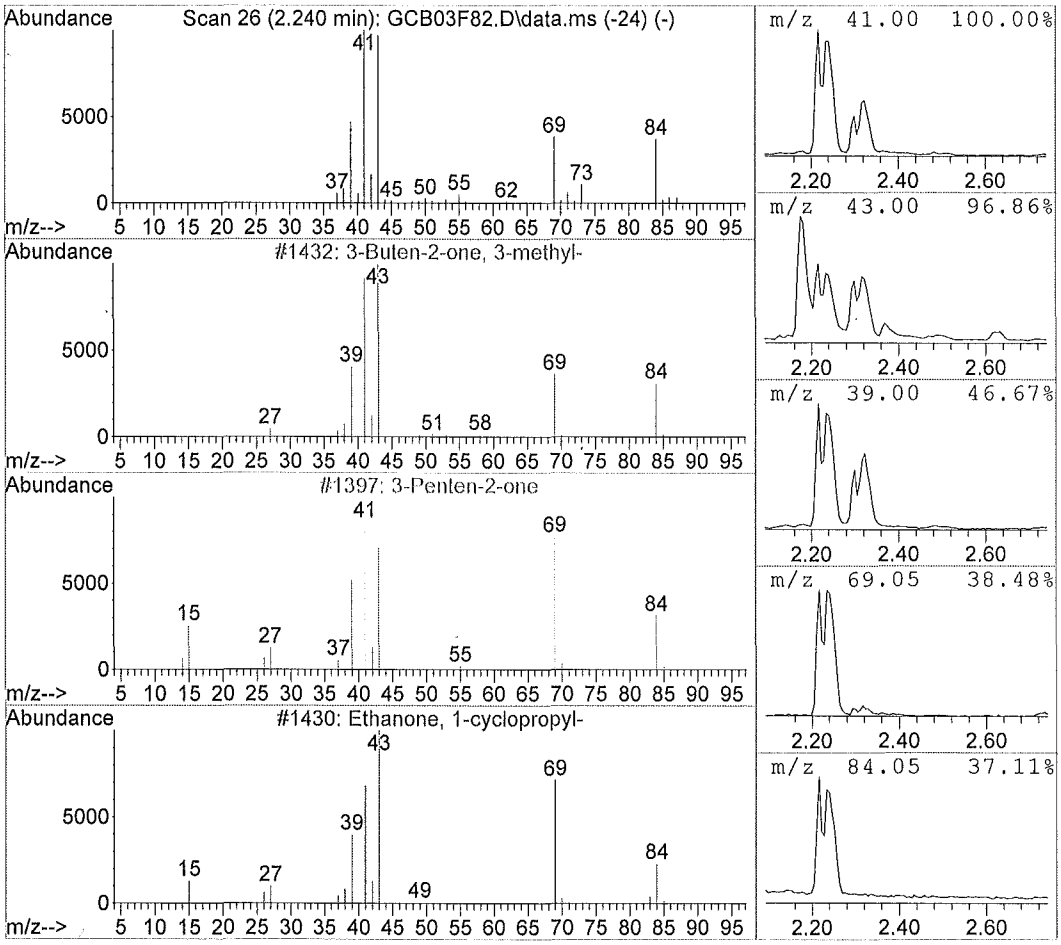
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB03F82.D Vial: 25
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.24	5.37 ug/ml	517089	1,4-Dichlorobenzene-d4	1926482

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Buten-2-one, 3-methyl-	1432	000814-78-8	90.00
2	3-Penten-2-one	1397	000625-33-2	59.00
3	Ethanone, 1-cyclopropyl-	1430	000765-43-5	53.00
4	Methacrolein	518	000078-85-3	38.00
5	2,2,6-Trimethyl-4H-1,3-dioxin-4-one	19501	005394-63-8	35.00

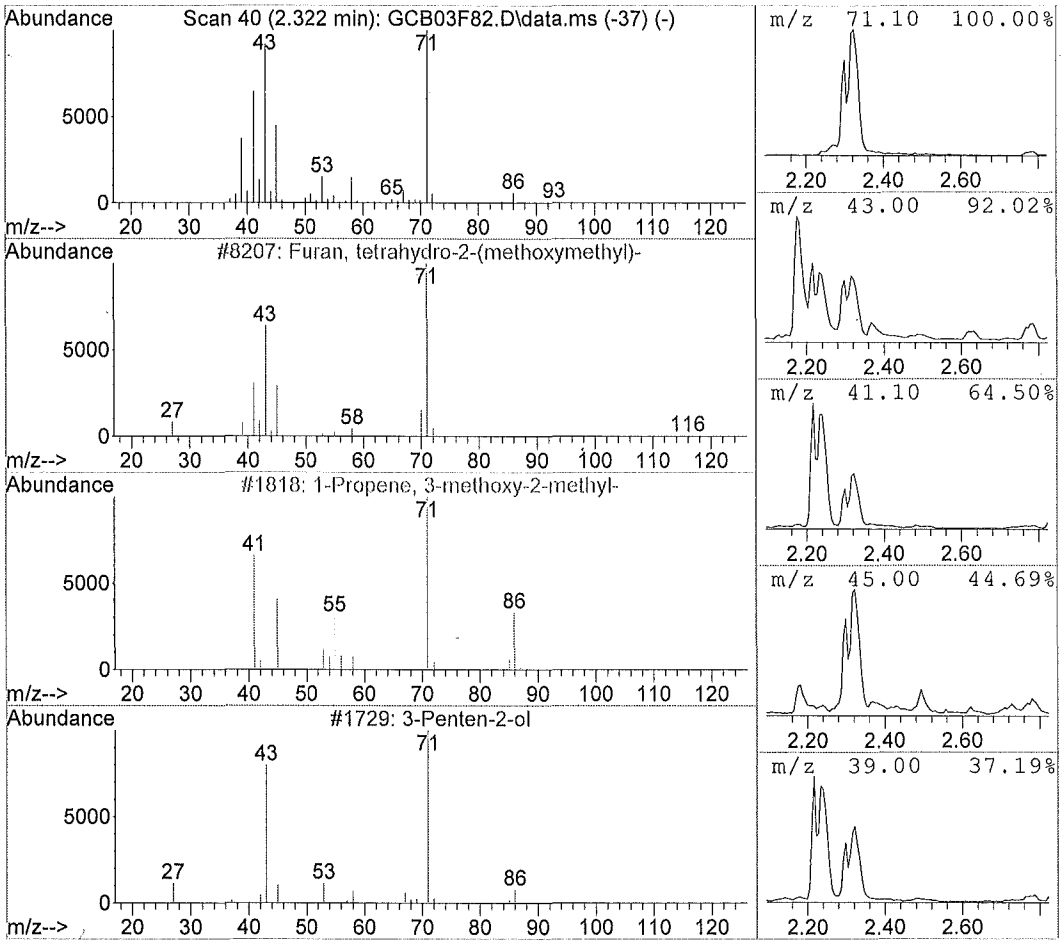


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB03F82.D Vial: 25
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.32	6.04 ug/ml	582137	1,4-Dichlorobenzene-d4	1926482

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Furan, tetrahydro-2-(methoxymethyl)	8207	019354-27-9	72.00
2	1-Propene, 3-methoxy-2-methyl-	1818	022418-49-1	50.00
3	3-Penten-2-ol	1729	001569-50-2	50.00
4	Butanoic acid, 2-propenyl ester	12268	002051-78-7	47.00
5	Furan-2-carbonyl chloride, tetrahyd	15065	052449-98-6	47.00



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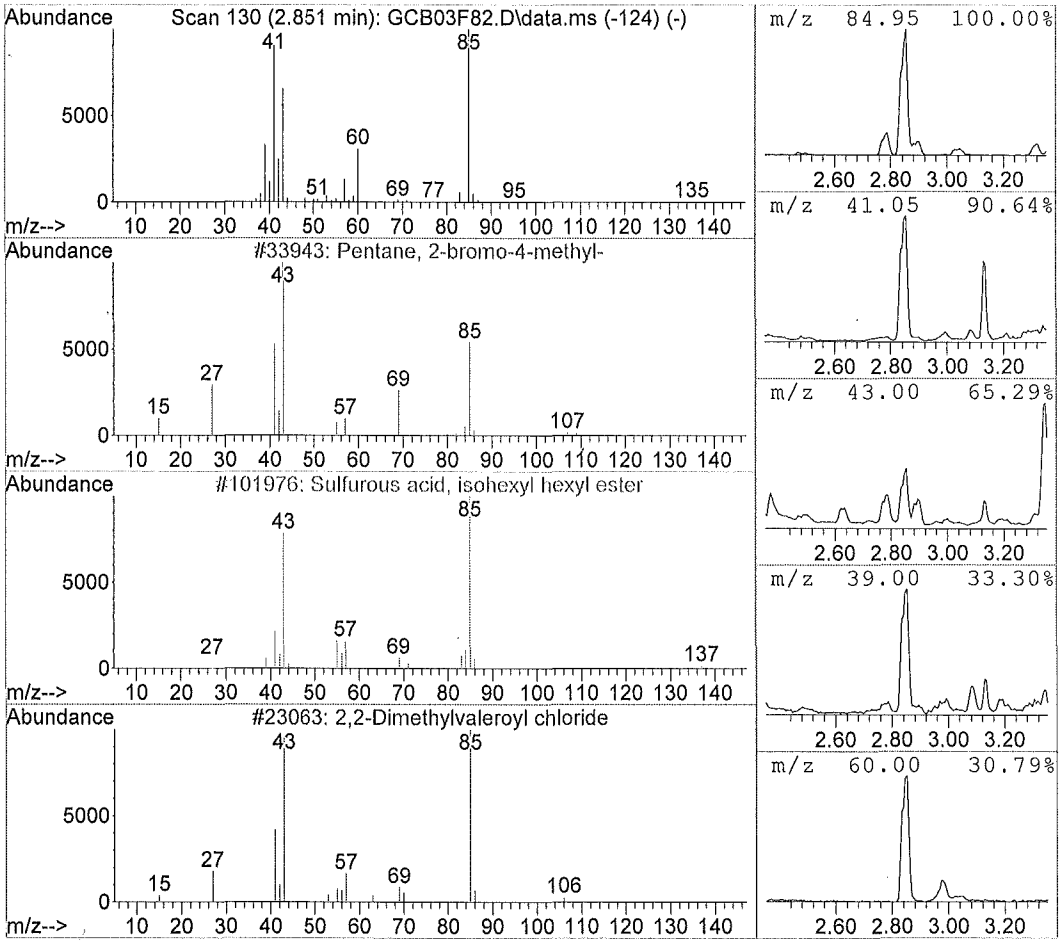
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.85	6.13 ug/ml	590374	1,4-Dichlorobenzene-d4	1926482

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentane, 2-bromo-4-methyl-	33943	030310-22-6	39.00
2	Sulfurous acid, isohexyl hexyl este	101976	1000309-12-8	33.00
3	2,2-Dimethylvaleroyl chloride	23063	015721-22-9	28.00
4	4-Methyl-1,6-heptadien-4-ol	11412	025201-40-5	23.00
5	2-Pyrrolidinone	1542	000616-45-5	9.00



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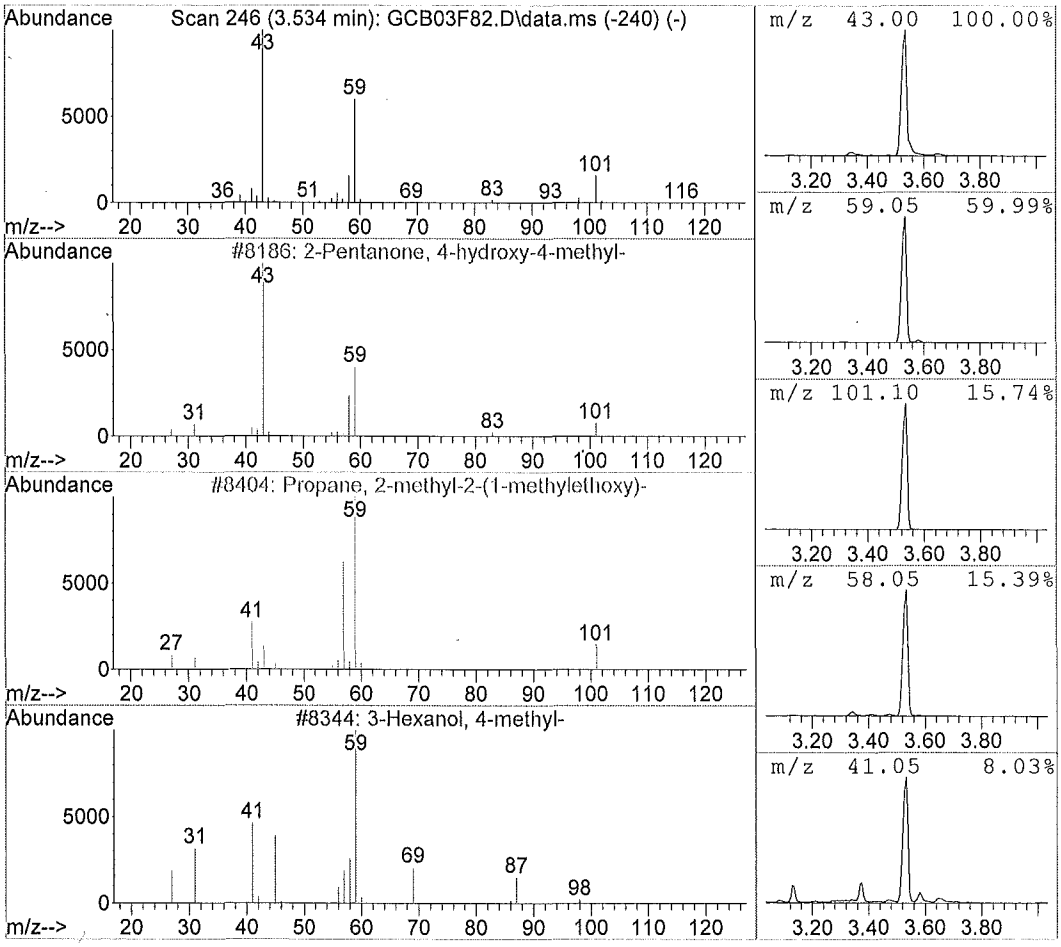
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.53	136.90 ug/ml	13186786	1,4-Dichlorobenzene-d4	1926482

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
2	Propane, 2-methyl-2-(1-methylethoxy	8404	017348-59-3	36.00
3	3-Hexanol, 4-methyl-	8344	000615-29-2	33.00
4	2-Hexanol, 2-methyl-	8346	000625-23-0	28.00
5	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	23.00

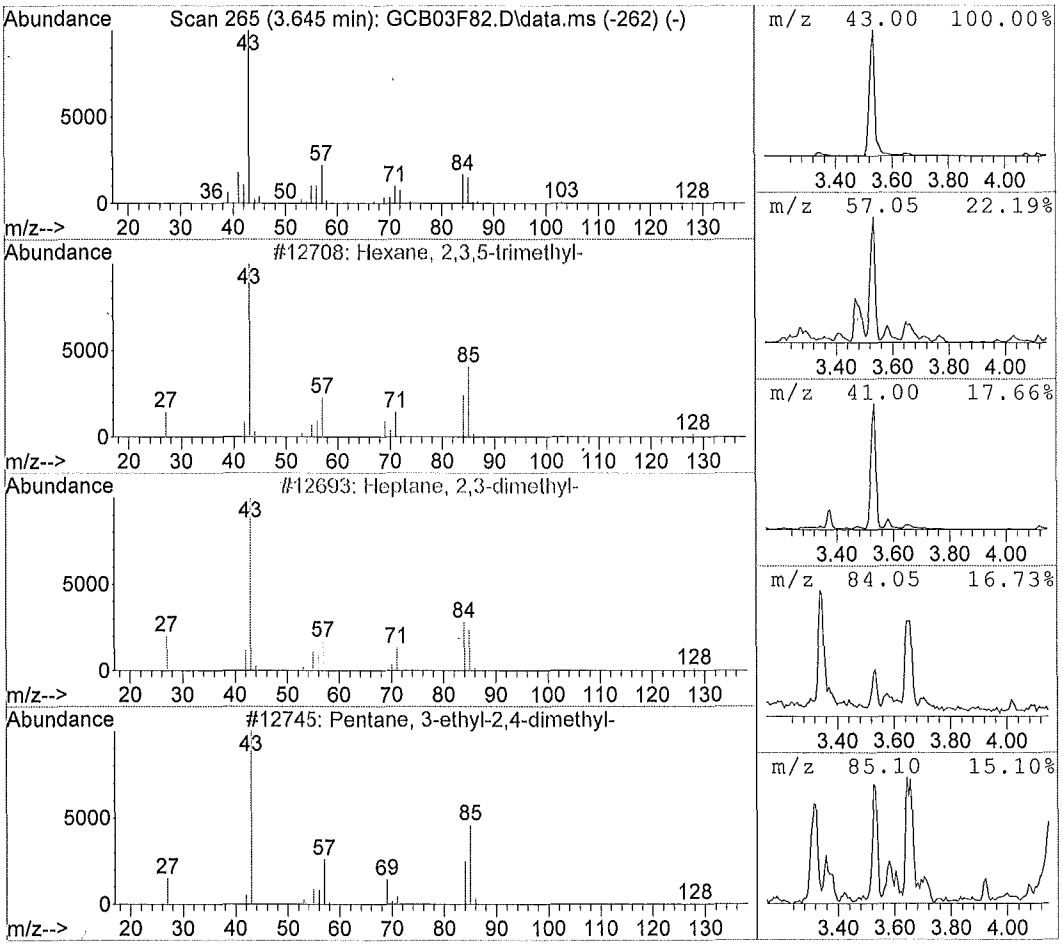


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB03F82.D Vial: 25
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.65	2.83 ug/ml	272709	1,4-Dichlorobenzene-d4	1926482

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl- BA	12708	001069-53-0	78.00
2	Heptane, 2,3-dimethyl-	12693	003074-71-3	74.00
3	Pentane, 3-ethyl-2,4-dimethyl-	12745	001068-87-7	59.00
4	Octane, 4-methyl-	12674	002216-34-4	59.00
5	Hexane, 3-ethyl-2-methyl-	12730	016789-46-1	53.00

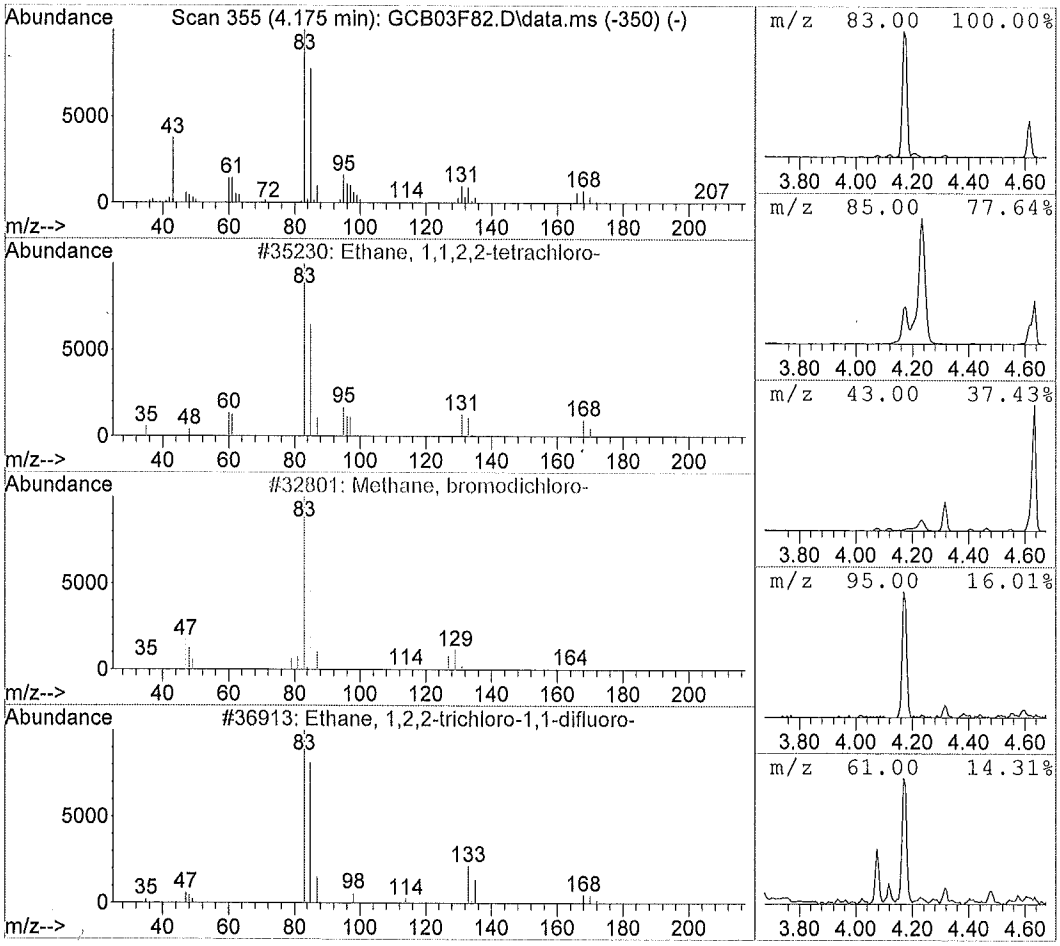


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB03F82.D Vial: 25
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.17	5.89 ug/ml	567788	1,4-Dichlorobenzene-d4	1926482

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro- VOA	35230	000079-34-5	94.00
2	Methane, bromodichloro-	32801	000075-27-4	59.00
3	Ethane, 1,2,2-trichloro-1,1-difluor	36913	000354-21-2	46.00
4	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	45.00
5	Methane, dichloronitro-	13083	007119-89-3	42.00

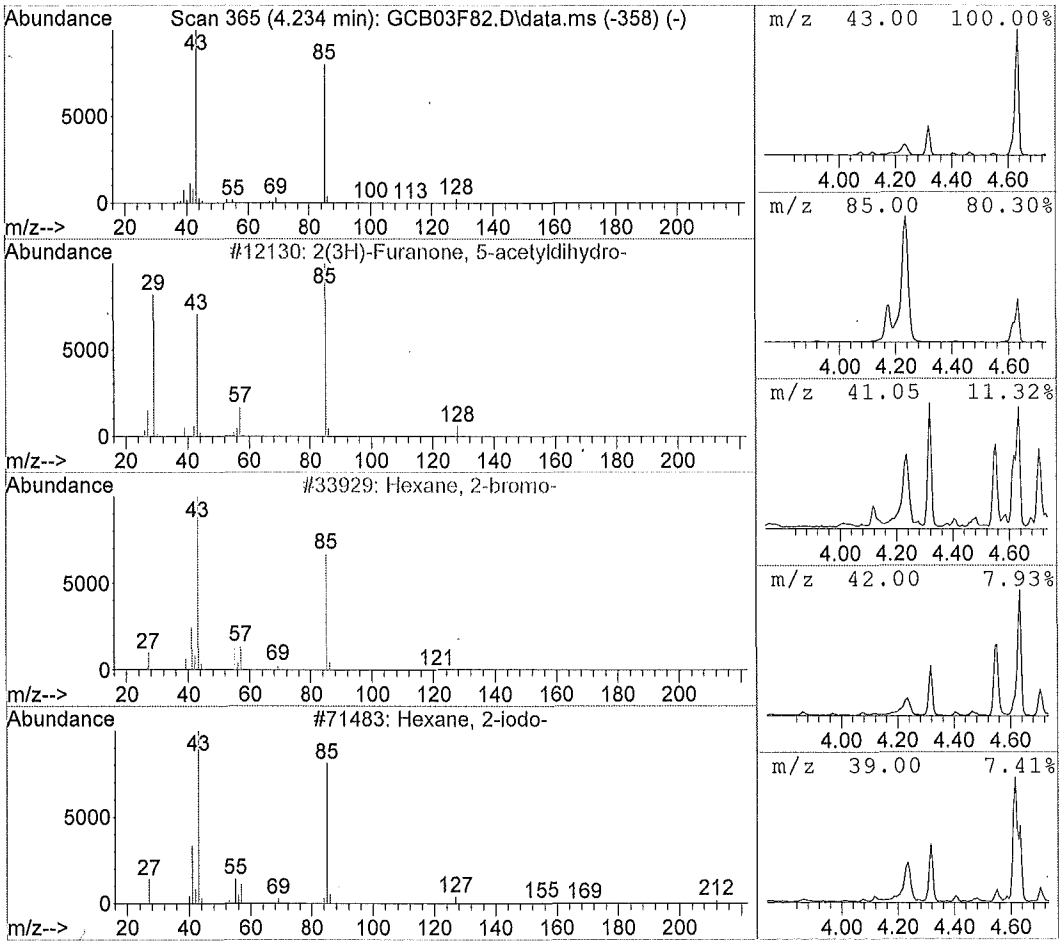


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB03F82.D Vial: 25
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.23	14.29 ug/ml	1376670	1,4-Dichlorobenzene-d4	1926482

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2(3H)-Furanone, 5-acetyldihydro-	12130	029393-32-6	72.00
2	Hexane, 2-bromo-	33929	003377-86-4	64.00
3	Hexane, 2-iodo-	71483	018589-27-0	64.00
4	2-Methylbutanoic anhydride	49848	001468-39-9	39.00
5	4-Methoxy-3-buten-2-one	3689	004652-27-1	38.00

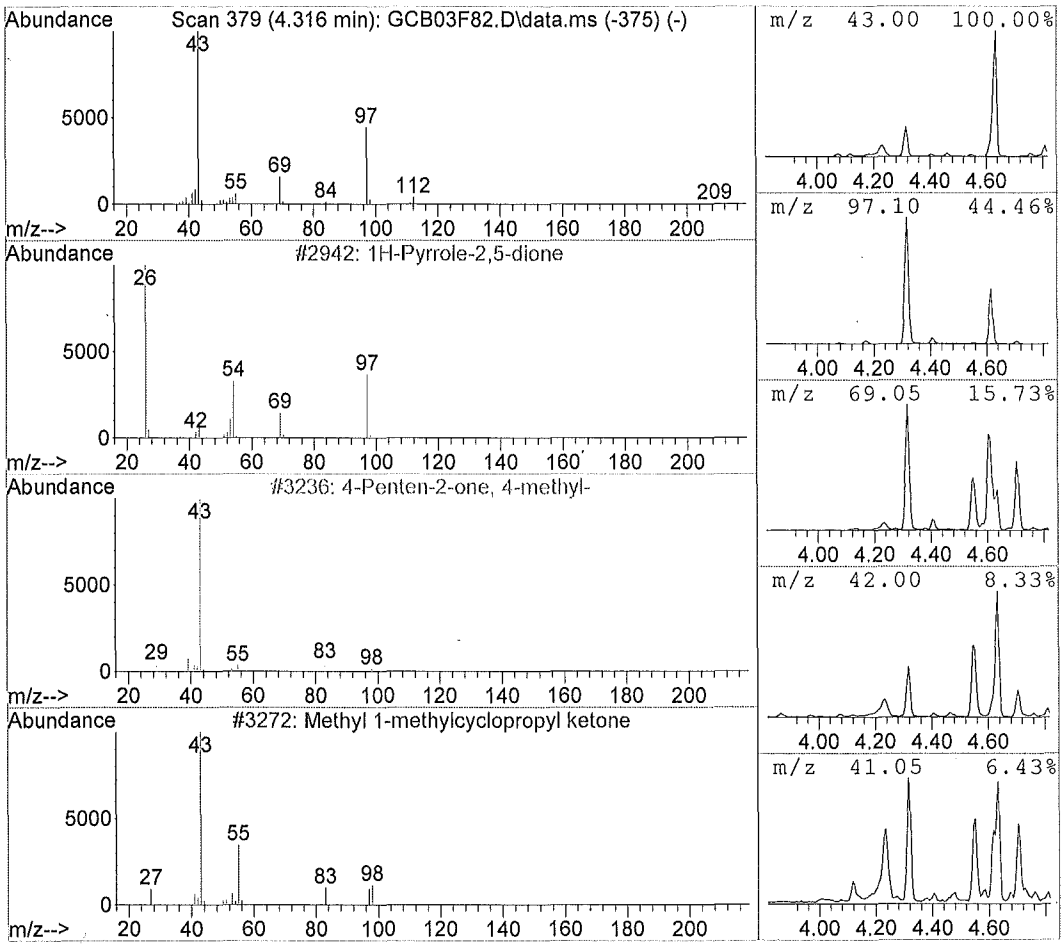


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB03F82.D Vial: 25
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.32	19.84 ug/ml	1911267	1,4-Dichlorobenzene-d4	1926482

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	40.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00
4	2-Vinylethyl acetate	7191	001576-84-7	9.00
5	1-Butene-1,4-diol, diacetate	40122	054484-67-2	9.00

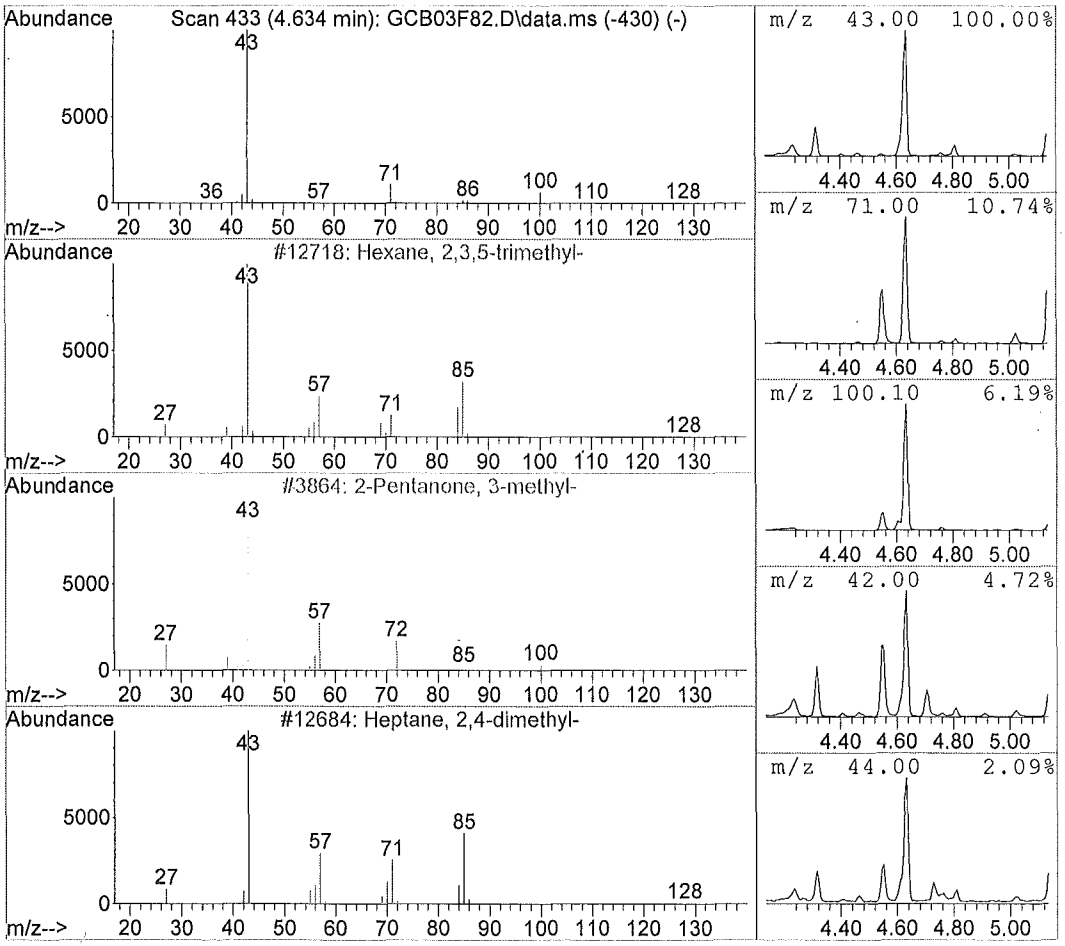


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB03F82.D Vial: 25
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.63	56.19 ug/ml	5412082	1,4-Dichlorobenzene-d4	1926482

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
2	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
3	Heptane, 2,4-dimethyl-	12684	002213-23-2	5.00
4	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00
5	Heptane	3973	000142-82-5	4.00



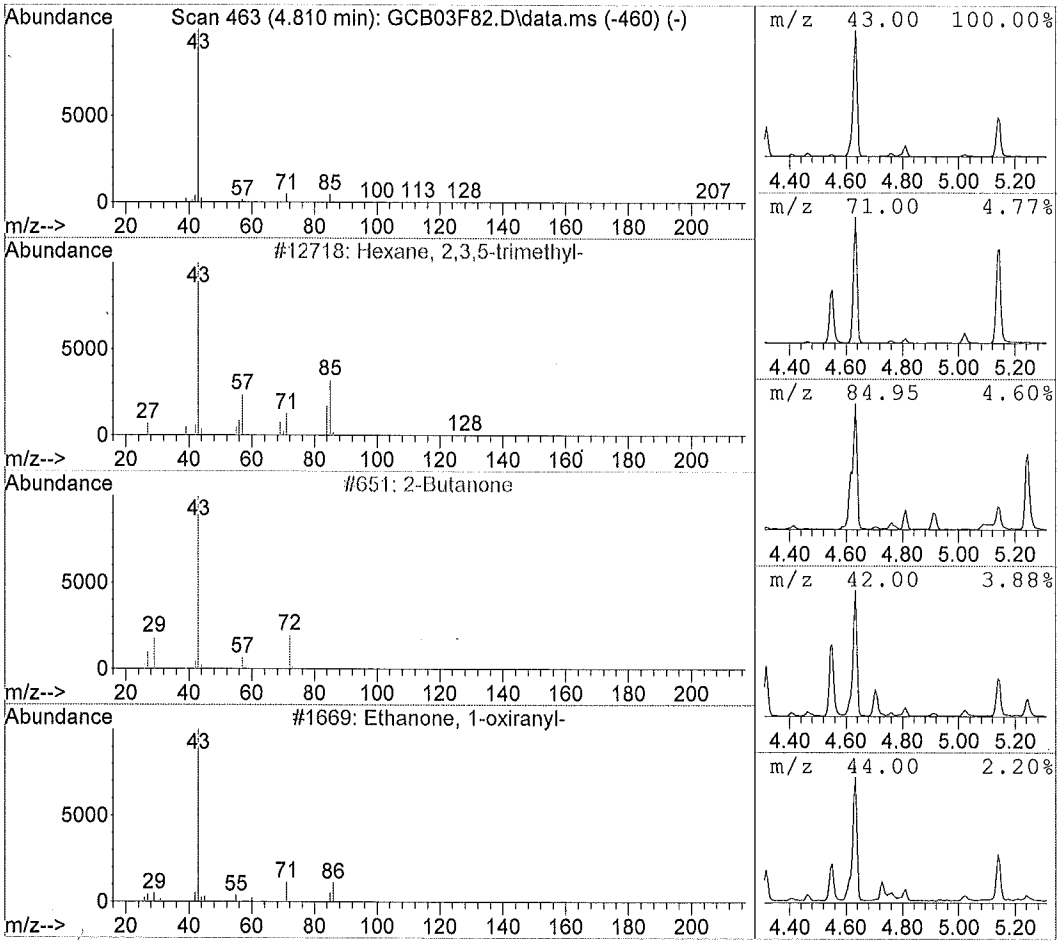
Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB03F82.D Vial: 25
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.81	4.55 ug/ml	437982	1,4-Dichlorobenzene-d4	1926482

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	5.00
2	2-Butanone	651	000078-93-3	4.00
3	Ethanone, 1-oxiranyl-	1669	004401-11-0	4.00
4	2-Propanone, 1-hydroxy-	818	000116-09-6	4.00
5	2-Pentanone, 3-methyl-	3866	000565-61-7	2.00

BA

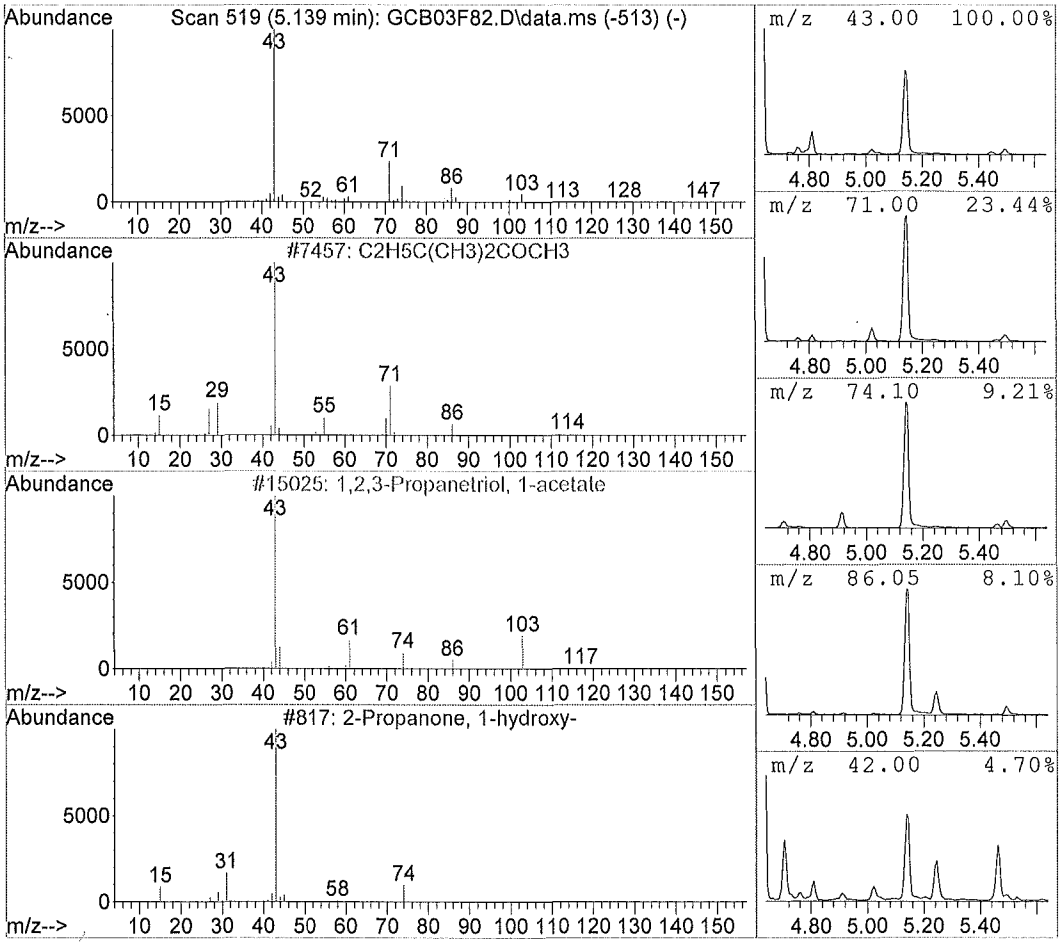


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB03F82.D Vial: 25
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.14	28.64 ug/ml	2759015	1,4-Dichlorobenzene-d4	1926482

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	C2H5C(CH3)2COCH3	7457	020669-04-9	33.00
2	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	32.00
3	2-Propanone, 1-hydroxy-	817	000116-09-6	27.00
4	Butanoic acid, 3-hydroxy-, methyl e	8724	001487-49-6	10.00
5	Pentanal, 2-methyl-	3836	000123-15-9	9.00



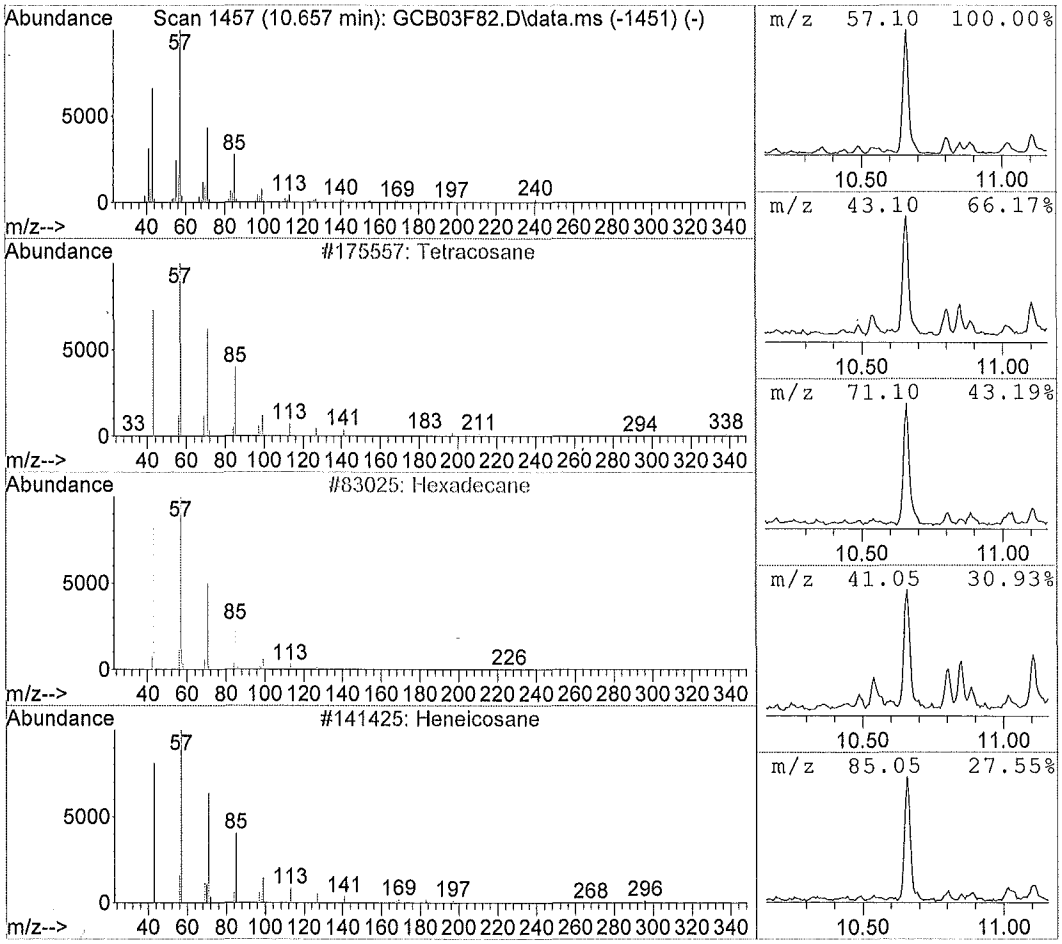
Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB03F82.D Vial: 25
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.66	3.13 ug/ml	457629	Phenanthrene-d10	2922798

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetracosane	175557	000646-31-1	90.00
2	Hexadecane	83025	000544-76-3	86.00
3	Heneicosane	141425	000629-94-7	86.00
4	Octane, 2,4,6-trimethyl-	28445	062016-37-9	86.00
5	Nonadecane	117637	000629-92-5	86.00

SA

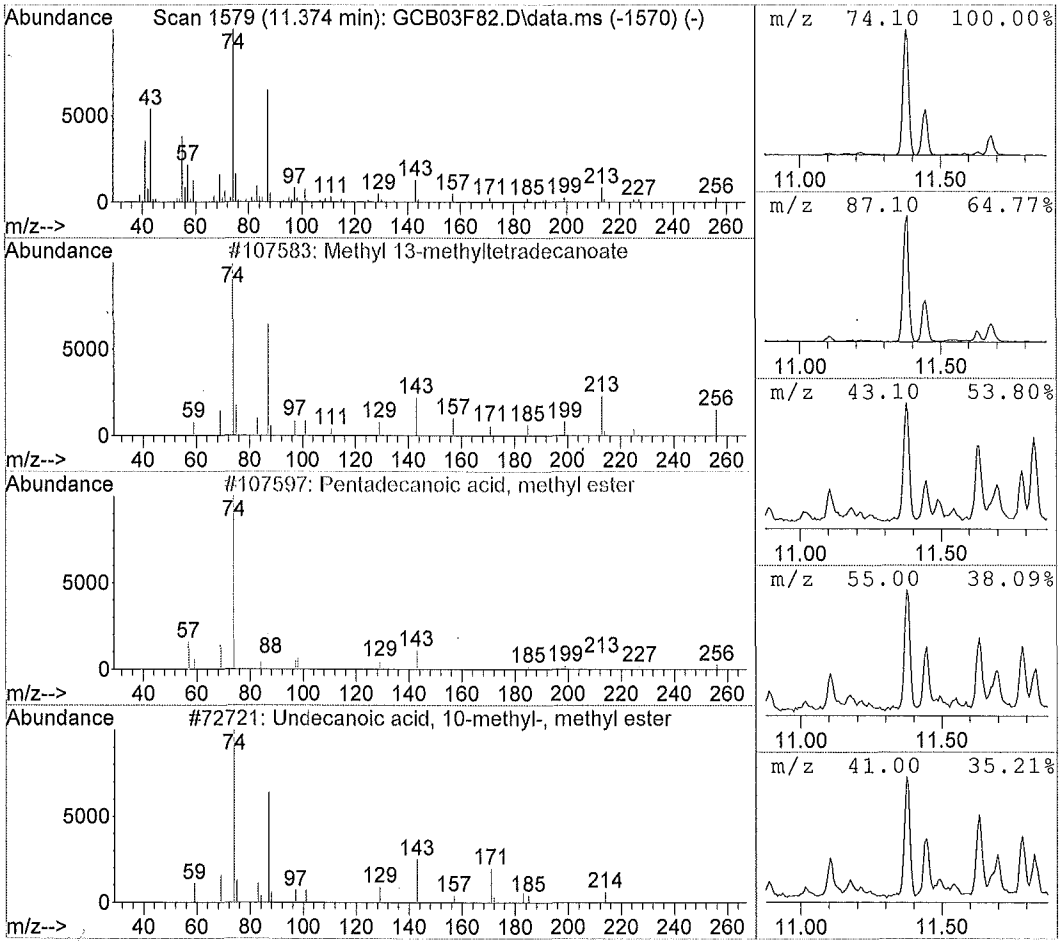


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB03F82.D Vial: 25
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.37	4.87 ug/ml	712265	Phenanthrene-d10	2922798

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methyl 13-methyltetradecanoate	107583	1000336-31-4	96.00
2	Pentadecanoic acid, methyl ester	107597	007132-64-1	93.00
3	Undecanoic acid, 10-methyl-, methyl	72721	005129-56-6	90.00
4	Tridecanoic acid, methyl ester	84487	001731-88-0	90.00
5	Tridecanoic acid, 12-methyl-, methy	95897	005129-58-8	90.00



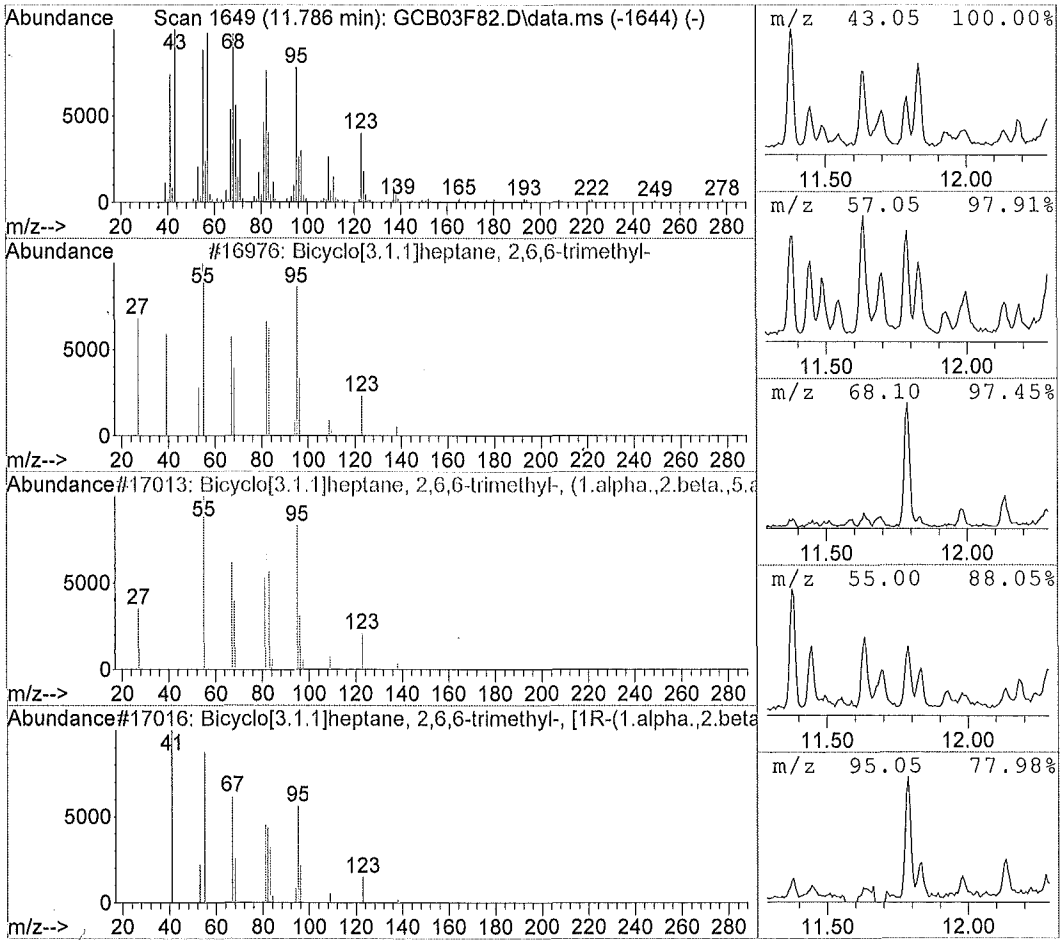
Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB03F82.D Vial: 25
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.79	2.40 ug/ml	350666	Phenanthrene-d10	2922798

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Bicyclo[3.1.1]heptane, 2,6,6-trimet	16976	000473-55-2	60.00
2	Bicyclo[3.1.1]heptane, 2,6,6-trimet	17013	006876-13-7	60.00
3	Bicyclo[3.1.1]heptane, 2,6,6-trimet	17016	004795-86-2	60.00
4	Bicyclo[3.1.1]heptane, 2,6,6-trimet	17019	004863-59-6	55.00
5	9-Octadecen-1-ol, (Z)-	117623	000143-28-2	53.00

CA



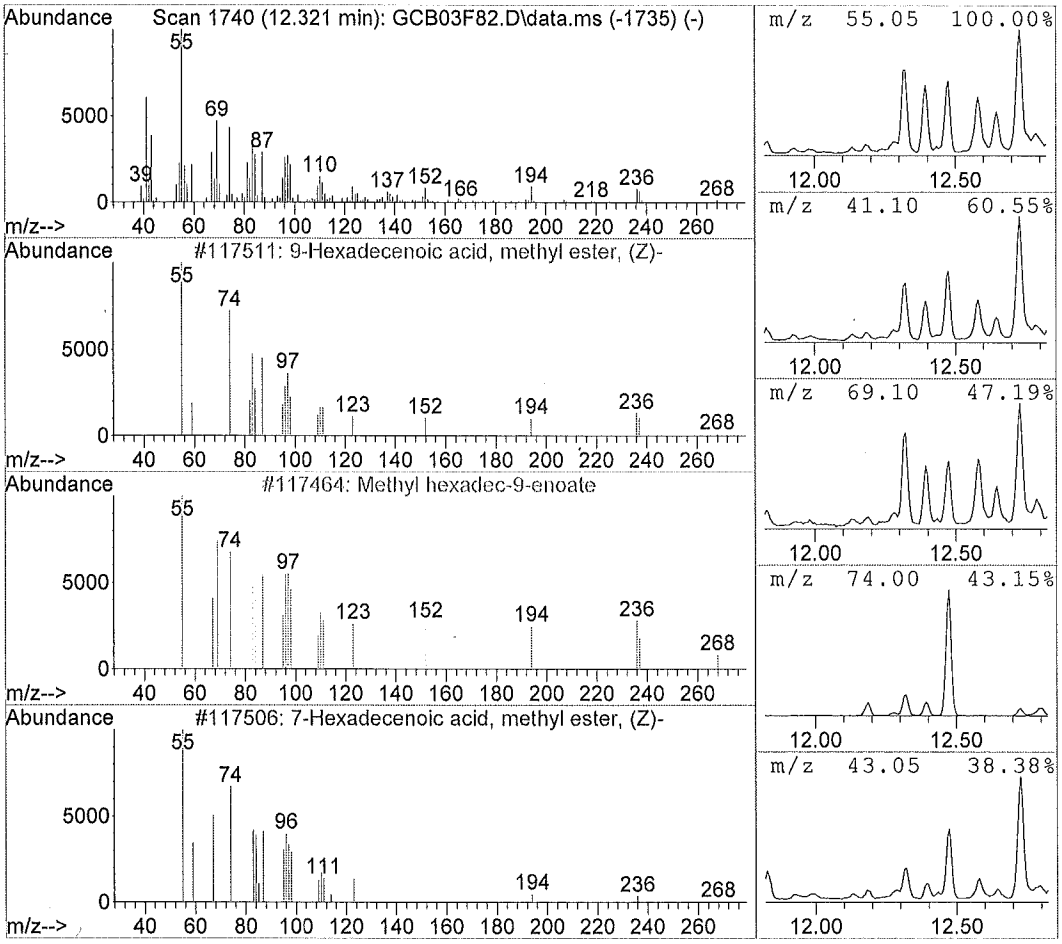
: 88941

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB03F82.D Vial: 25
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.32	7.56 ug/ml	1104398	Phenanthrene-d10	2922798

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Hexadecenoic acid, methyl ester,	117511	001120-25-8	98.00
2	Methyl hexadec-9-enoate	117464	010030-74-7	87.00
3	7-Hexadecenoic acid, methyl ester,	117506	056875-67-3	86.00
4	11-Hexadecenoic acid, methyl ester	117489	055000-42-5	83.00
5	Methyl myristoleate	94118	056219-06-8	80.00

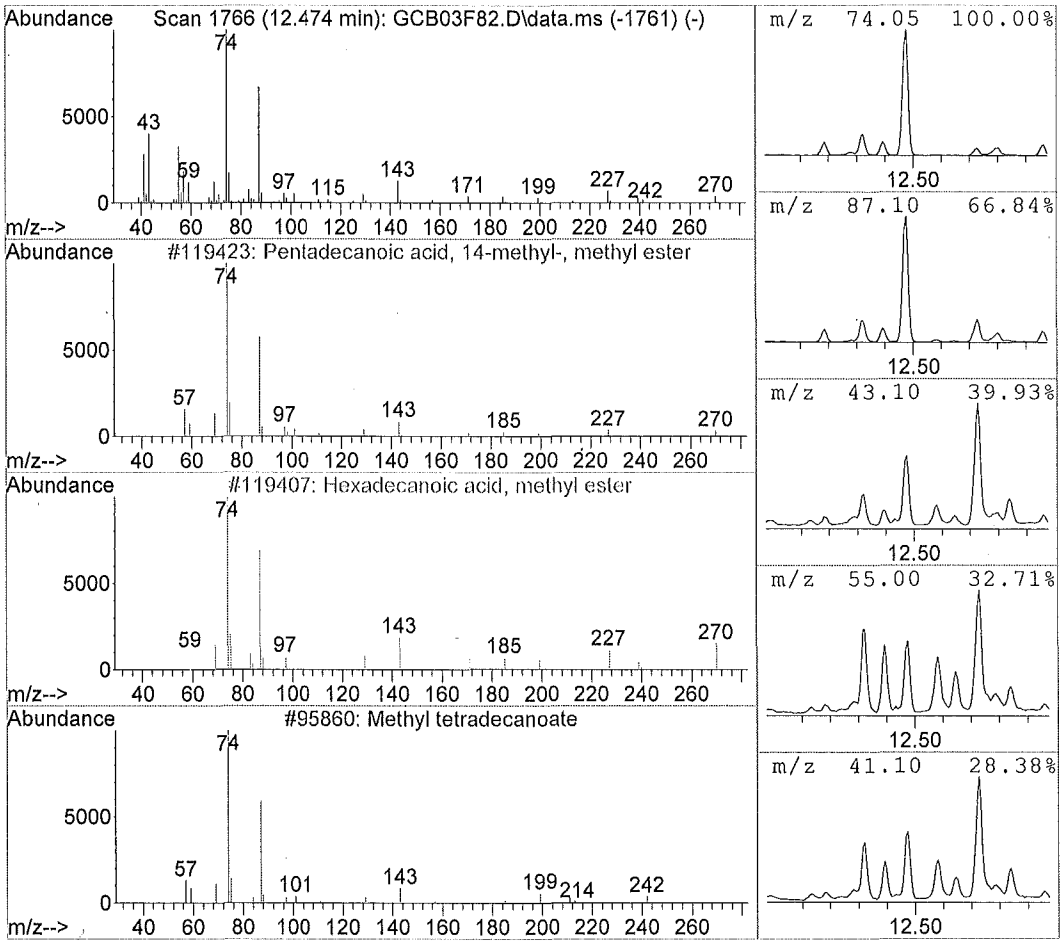


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB03F82.D Vial: 25
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.47	9.16 ug/ml	1338186	Phenanthrene-d10	2922798

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	98.00
2	Hexadecanoic acid, methyl ester	119407	000112-39-0	98.00
3	Methyl tetradecanoate	95860	000124-10-7	90.00
4	Dodecanoic acid, 10-methyl-, methyl	84513	005129-65-7	90.00
5	Tridecanoic acid, methyl ester	84487	001731-88-0	90.00

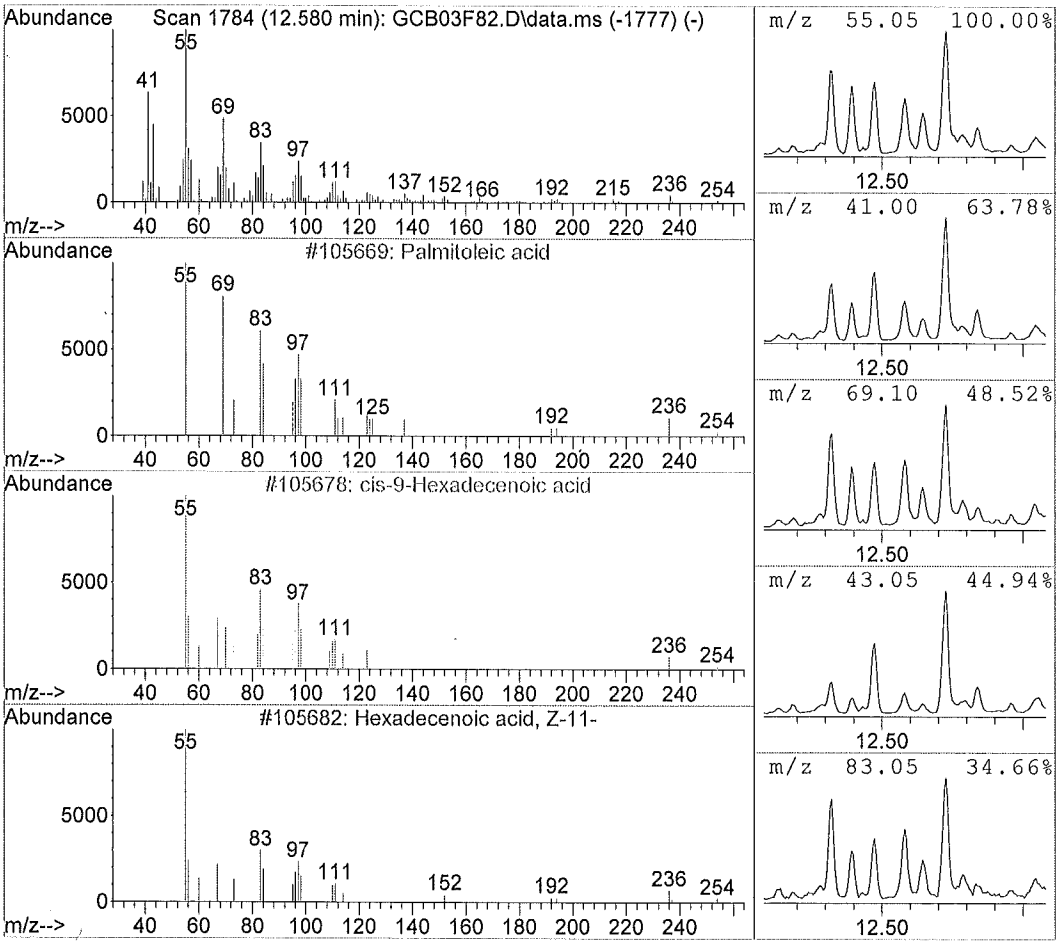


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB03F82.D Vial: 25
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.58	5.02 ug/ml	734296	Phenanthrene-d10	2922798

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Palmitoleic acid	105669	000373-49-9	99.00
2	cis-9-Hexadecenoic acid	105678	1000333-19-5	99.00
3	Hexadecenoic acid, Z-11-	105682	002416-20-8	98.00
4	9-Hexadecenoic acid	105670	002091-29-4	91.00
5	Z-7-Tetradecenoic acid	82767	1000130-98-4	91.00

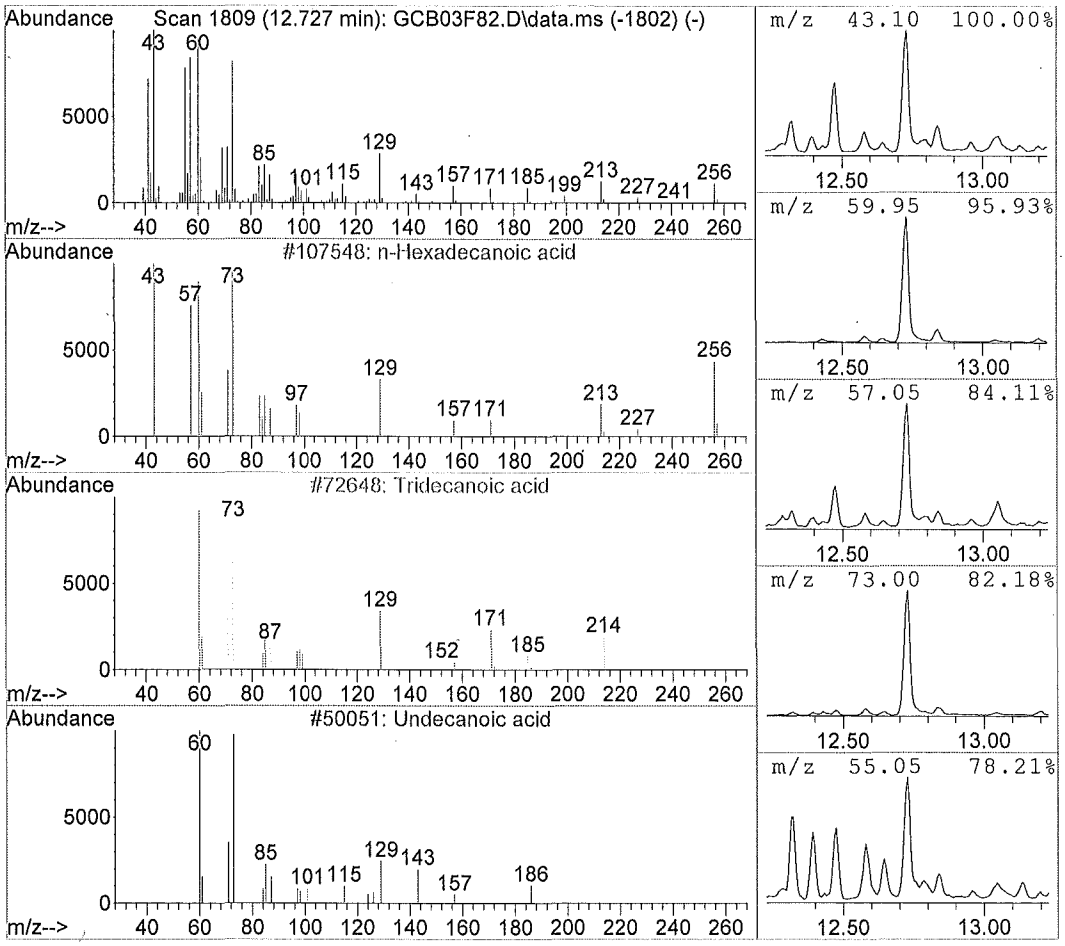


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB03F82.D Vial: 25
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.73	17.03 ug/ml	2489395	Phenanthrene-d10	2922798

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107548	000057-10-3	99.00
2	Tridecanoic acid	72648	000638-53-9	72.00
3	Undecanoic acid	50051	000112-37-8	64.00
4	Dodecanoic acid	61121	000143-07-7	59.00
5	Pentadecanoic acid	95854	001002-84-2	58.00



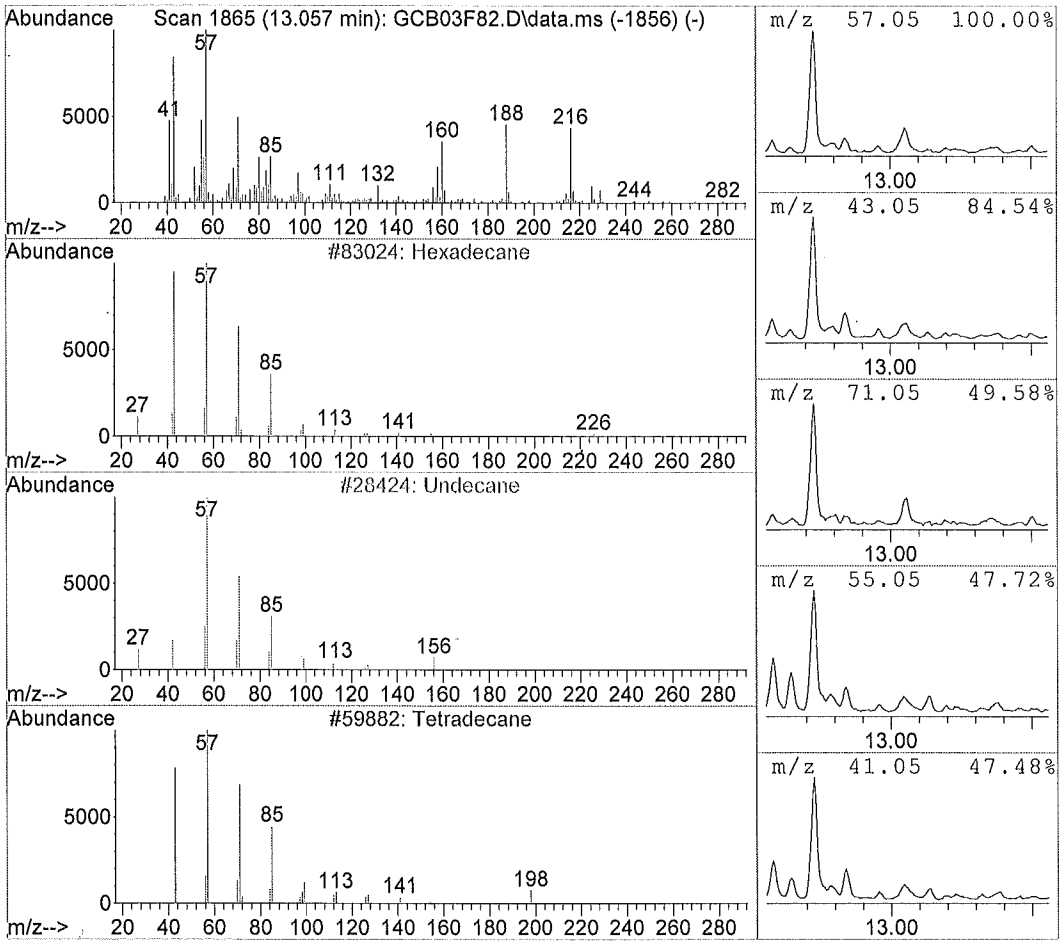
Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB03F82.D Vial: 25
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.06	4.39 ug/ml	641674	Phenanthrene-d10	2922798

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane	83024	000544-76-3	25.00
2	Undecane	28424	001120-21-4	25.00
3	Tetradecane	59882	000629-59-4	25.00
4	Hexadecane, 2,6,10,14-tetramethyl-	129513	000638-36-8	11.00
5	Dotriacontane	227193	000544-85-4	10.00

SA

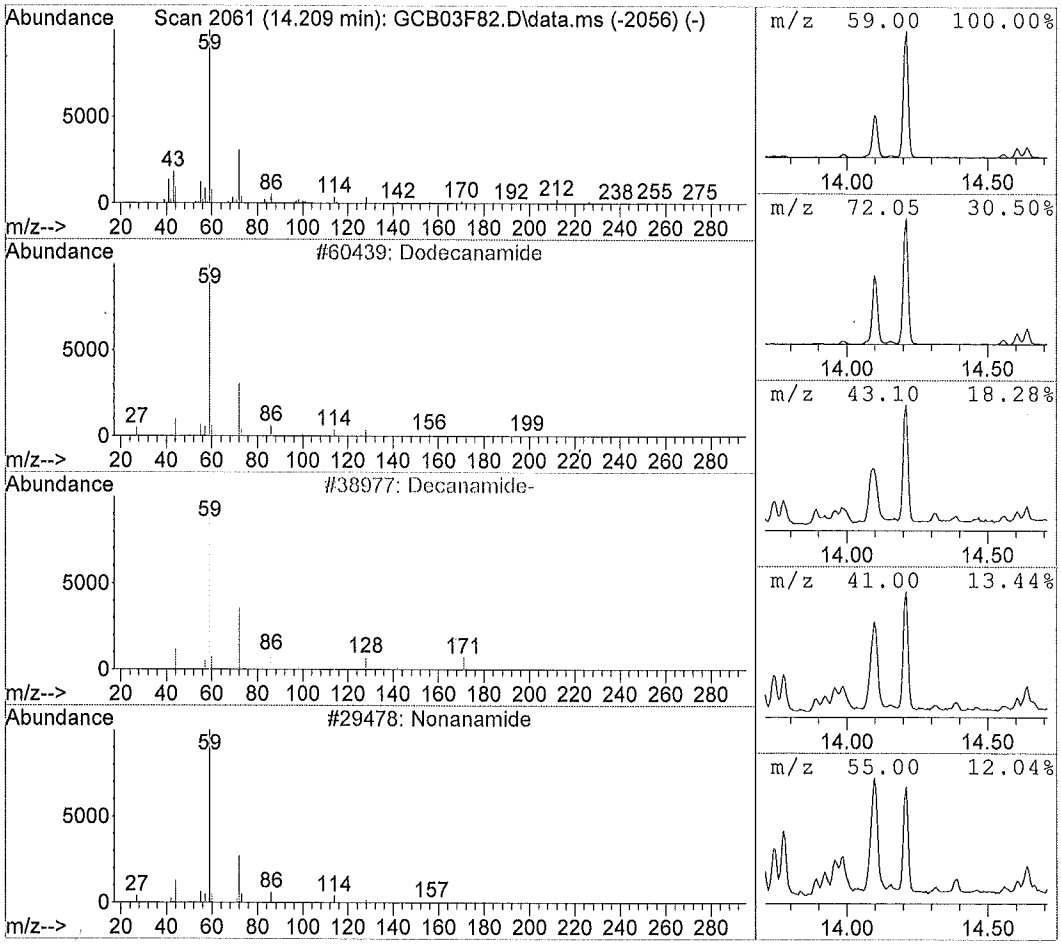


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB03F82.D Vial: 25
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.21	11.69 ug/ml	2263895	Chrysene-d12	3874812

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Decanamide-	38977	002319-29-1	87.00
3	Nonanamide	29478	001120-07-6	83.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
5	Tetradecanamide	83609	000638-58-4	83.00



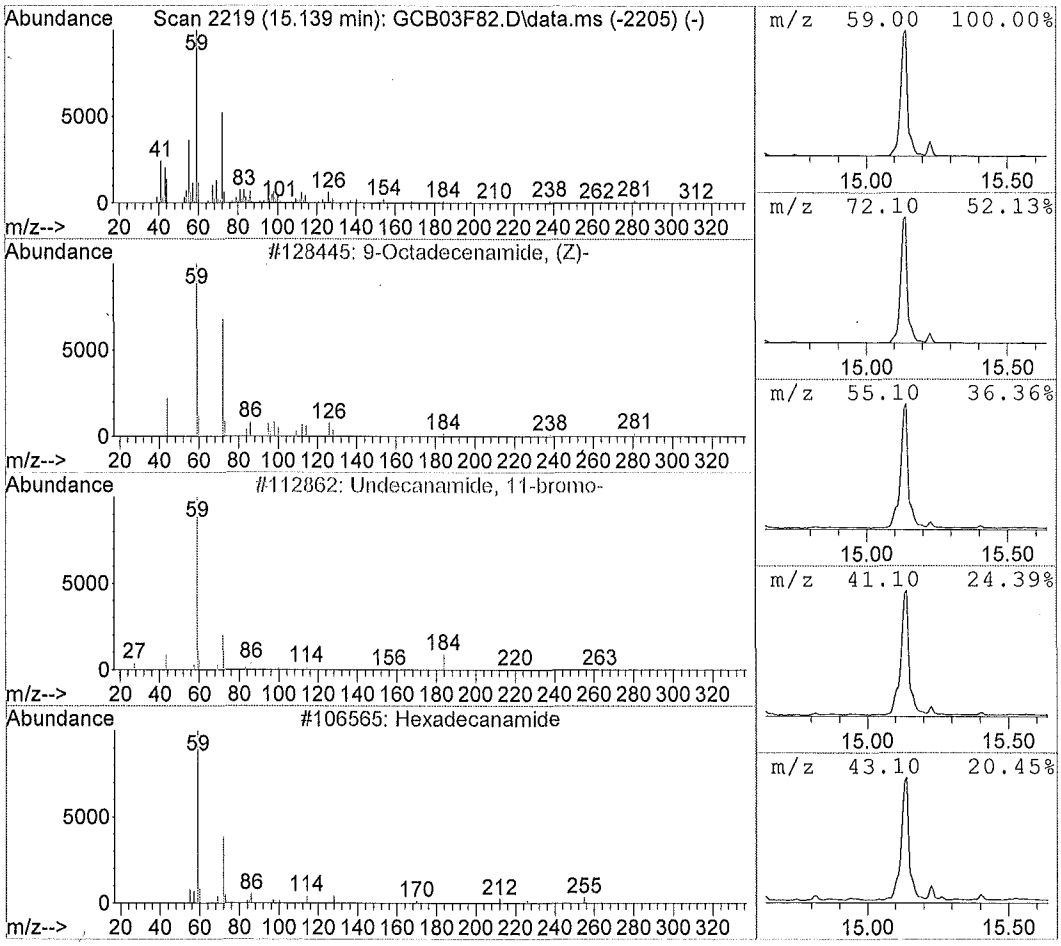
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB03F82.D Vial: 25
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.14	129.05 ug/ml	25001872	Chrysene-d12	3874812

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Undecanamide, 11-bromo-	112862	005875-26-3	59.00
3	Hexadecanamide	106565	000629-54-9	56.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	56.00
5	Tetradecanamide	83609	000638-58-4	56.00



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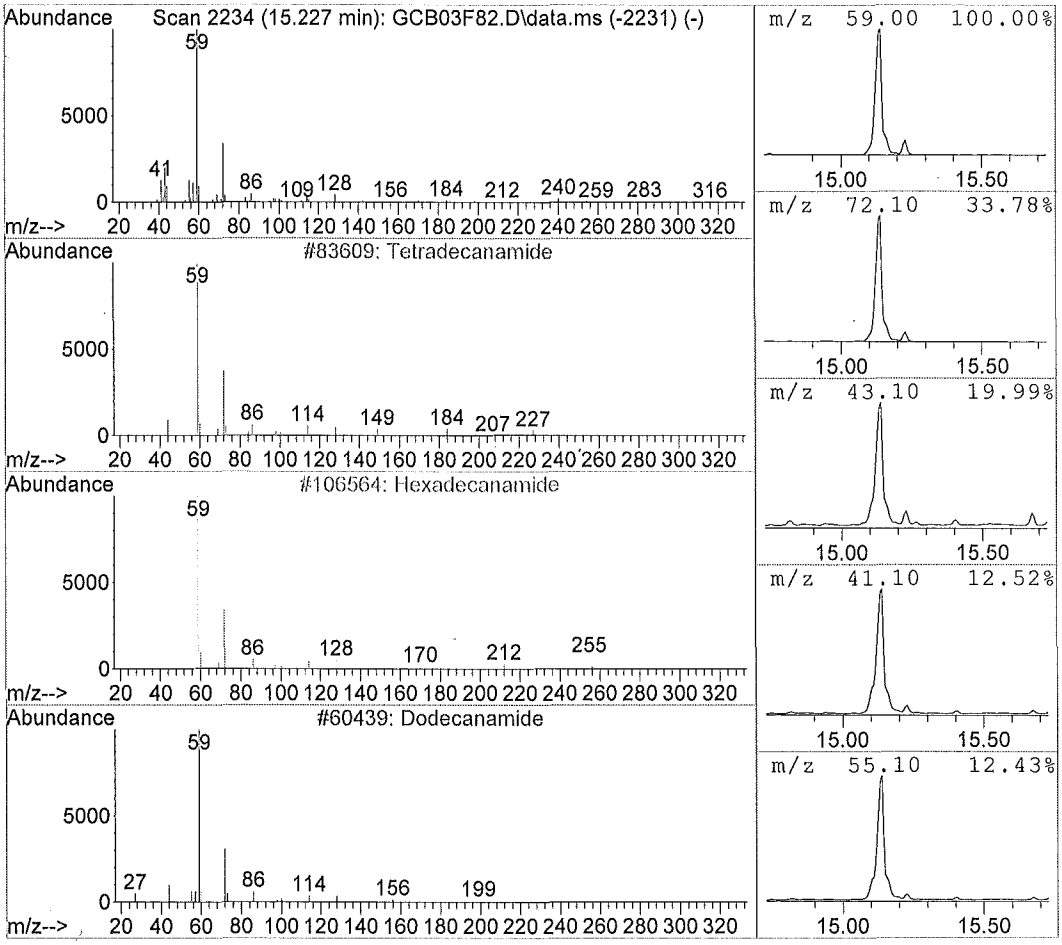
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.23	4.56 ug/ml	884016	Chrysene-d12	3874812

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83609	000638-58-4	90.00
2	Hexadecanamide	106564	000629-54-9	90.00
3	Dodecanamide	60439	001120-16-7	78.00
4	Decanamide-	38977	002319-29-1	78.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	78.00



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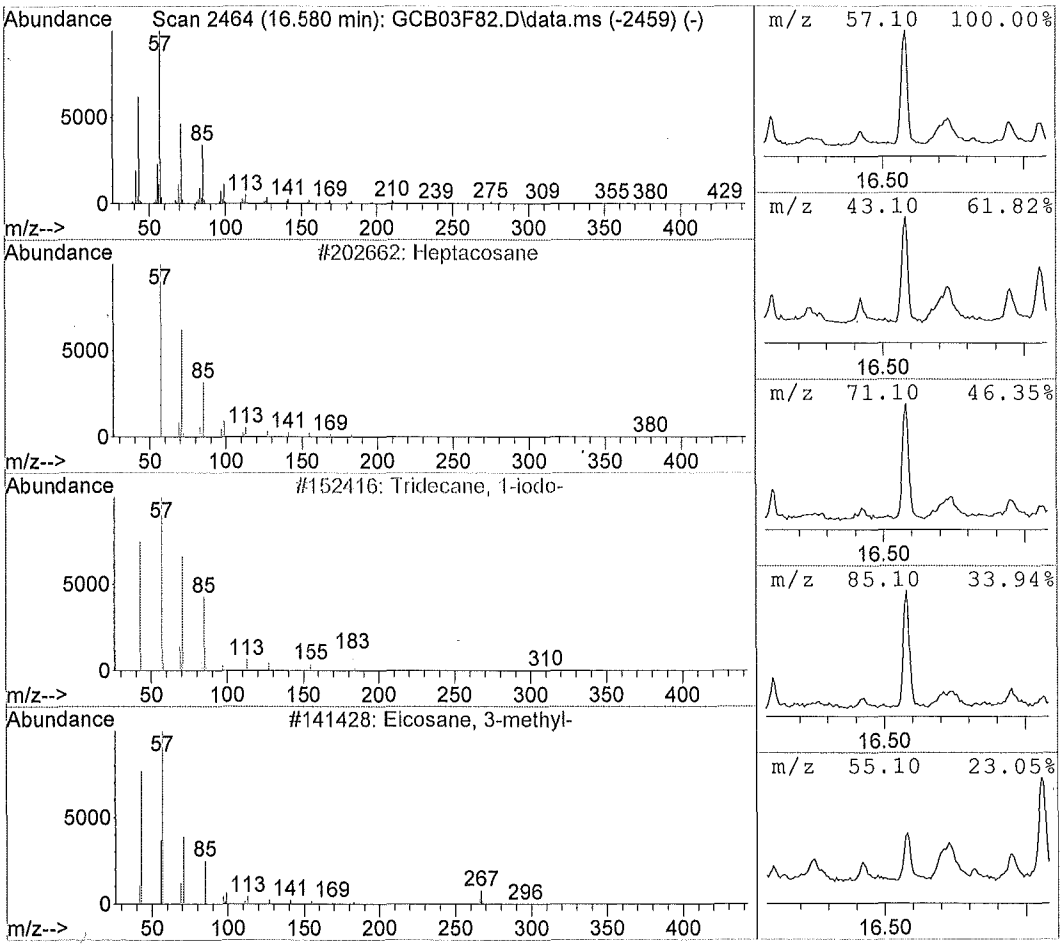
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.58	4.82 ug/ml	934051	Chrysene-d12	3874812

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane SA	202662	000593-49-7	98.00
2	Tridecane, 1-iodo-	152416	035599-77-0	94.00
3	Eicosane, 3-methyl-	141428	006418-46-8	93.00
4	Pentacosane	185533	000629-99-2	90.00
5	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	89.00

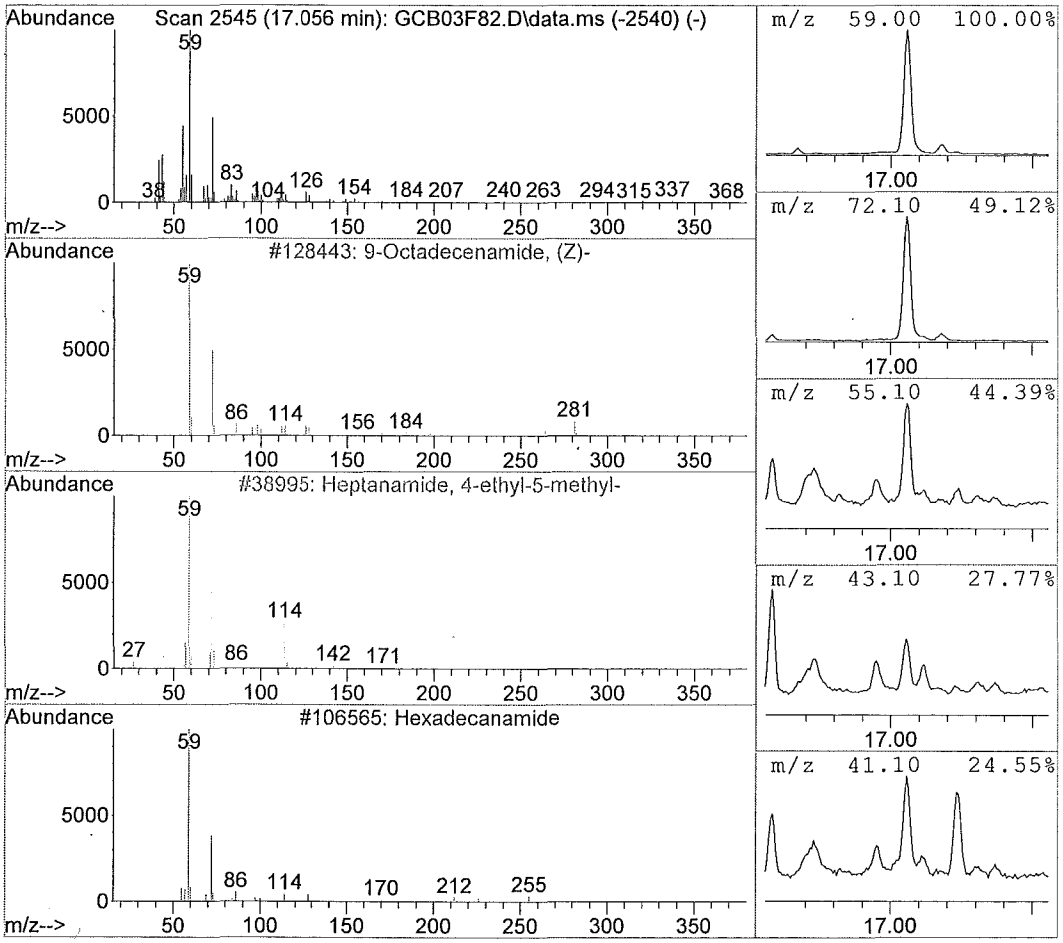


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB03F82.D Vial: 25
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.06	9.00 ug/ml	1106499	Perylene-d12	2459254

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	94.00
2	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	64.00
3	Hexadecanamide	106565	000629-54-9	59.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00
5	Decanamide-	38977	002319-29-1	56.00

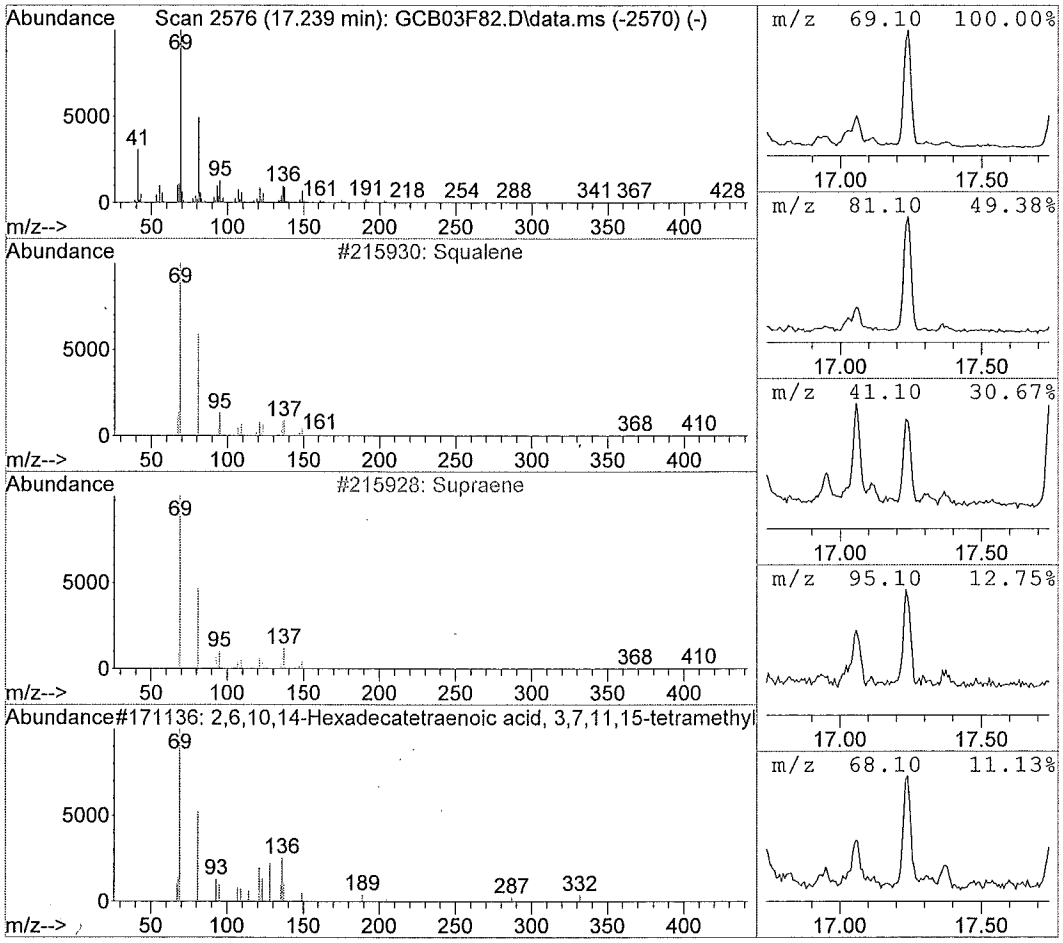


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB03F82.D Vial: 25
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.24	6.04 ug/ml	743069	Perylene-d12	2459254

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Squalene	215930	000111-02-4	91.00
2	Supraene	215928	007683-64-9	91.00
3	2,6,10,14-Hexadecatetraenoic acid,	171136	024035-35-6	72.00
4	2,3,5-Trimethyl-2,3,5-hexanetricarb	63358	003974-79-6	53.00
5	4-Methyl-1,5-Heptadiene	5950	000998-94-7	50.00



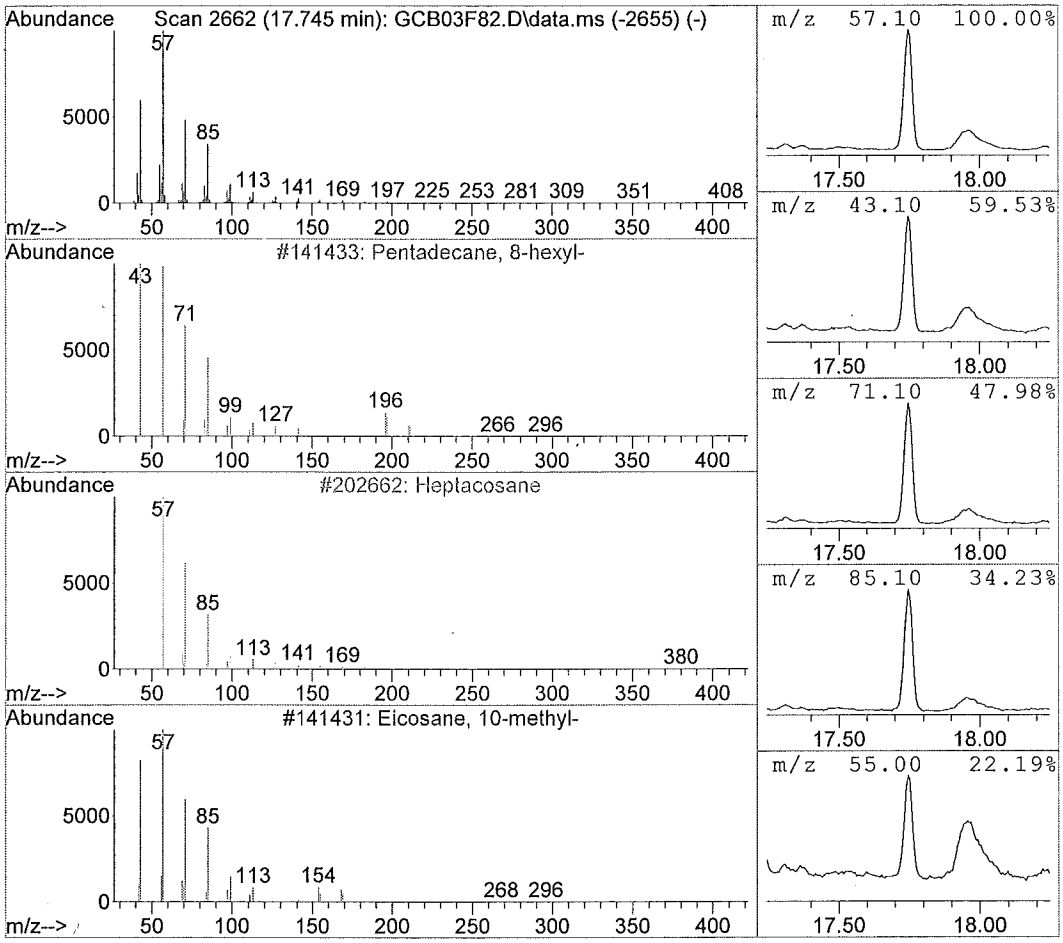
Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB03F82.D Vial: 25
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.74	19.05 ug/ml	2341932	Perylene-d12	2459254

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecane, 8-hexyl-	141433	013475-75-7	94.00
2	Heptacosane	202662	000593-49-7	91.00
3	Eicosane, 10-methyl-	141431	054833-23-7	91.00
4	Pentacosane	185533	000629-99-2	91.00
5	Hentriacontane	223851	000630-04-6	91.00

BA

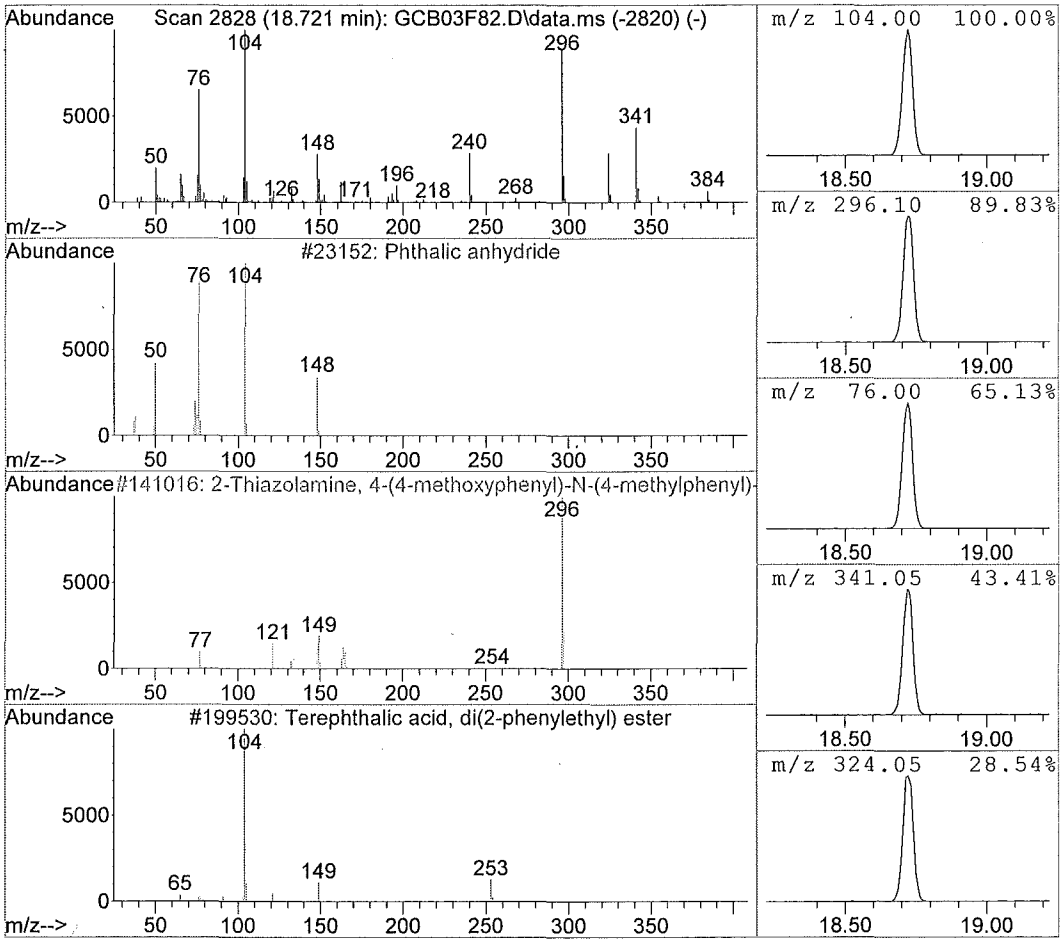


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB03F82.D Vial: 25
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.72	19.90 ug/ml	2447211	Perylene-d12	2459254

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23152	000085-44-9	27.00
2	2-Thiazolamine, 4-(4-methoxyphenyl)	141016	1000319-57-2	18.00
3	Terephthalic acid, di(2-phenylethyl	199530	1000323-78-5	10.00
4	Xanthine, 1,3-dimethyl-8-[2-[2-meth	140880	1000129-52-7	10.00
5	Terephthalic acid, decyl 2-phenylet	215831	1000323-78-4	10.00



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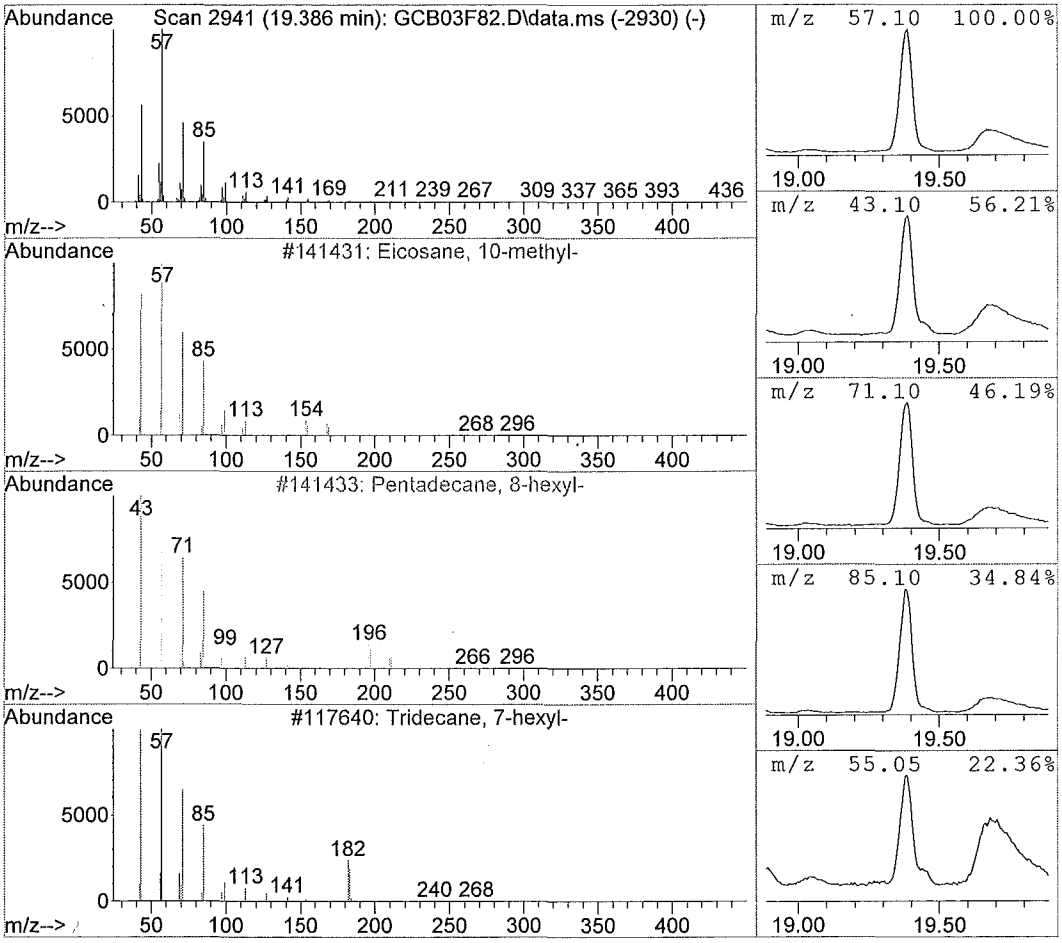
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.39	37.70 ug/ml	4635828	Perylene-d12	2459254

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane, 10-methyl-	141431	054833-23-7	93.00
2	Pentadecane, 8-hexyl-	141433	013475-75-7	93.00
3	Tridecane, 7-hexyl-	117640	007225-66-3	91.00
4	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	91.00
5	Hentriacontane	223851	000630-04-6	91.00



Library Search Compound Report

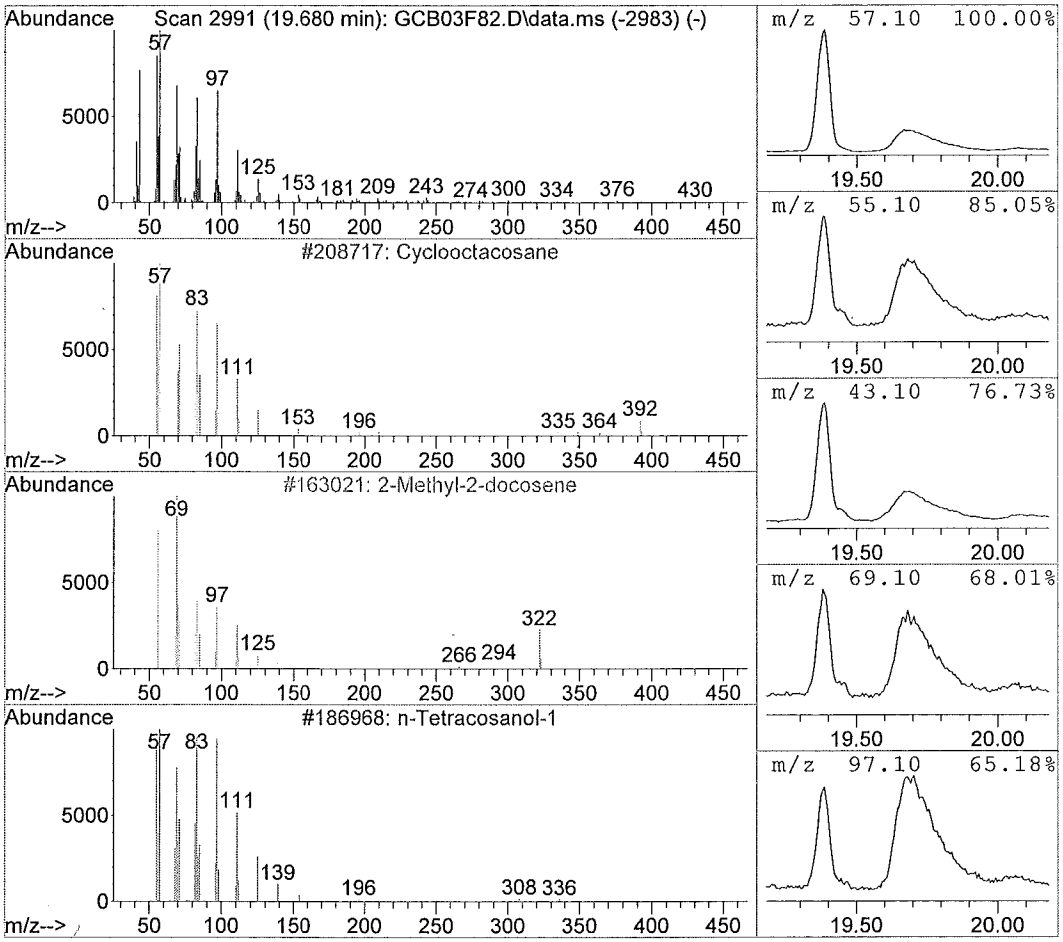
Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB03F82.D Vial: 25
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.68	5.98 ug/ml	735820	Perylene-d12	2459254

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclooctacosane	208717	000297-24-5	94.00
2	2-Methyl-2-docosene	163021	1000131-16-9	93.00
3	n-Tetracosanol-1	186968	000506-51-4	91.00
4	Octacosanol	215904	000557-61-9	91.00
5	Cyclotetracosane	174179	000297-03-0	90.00

CA

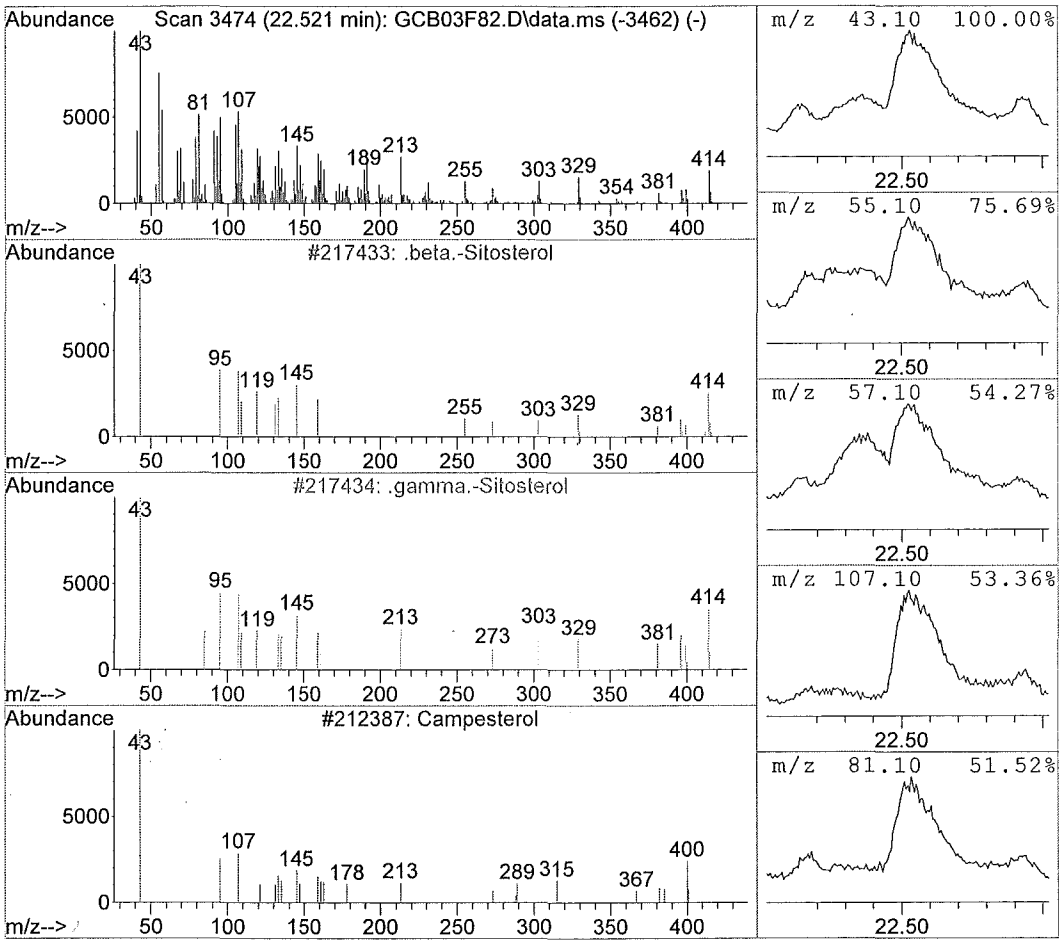


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB03F82.D Vial: 25
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.52	18.79 ug/ml	2310043	Perylene-d12	2459254

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	.beta.-Sitosterol	217433	000083-46-5	90.00
2	.gamma.-Sitosterol	217434	000083-47-6	83.00
3	Campesterol	212387	000474-62-4	49.00
4	Ergost-5-en-3-ol, (3.beta.)-	212394	004651-51-8	46.00
5	Cholestan-3-one, 4,4-dimethyl-, (5.	217447	002097-85-0	45.00

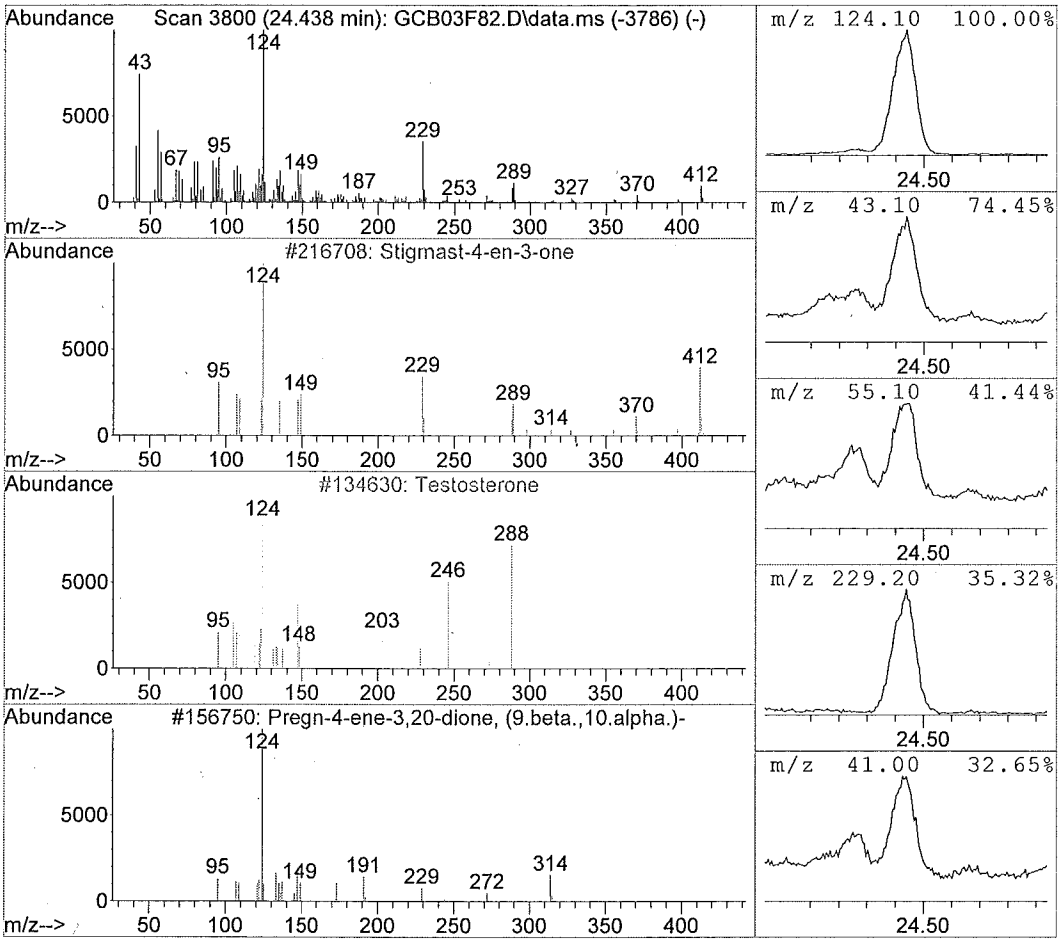


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB03F82.D Vial: 25
Acq On : 06/23/2015 18:11 Operator: TJM
Sample : 1515725002 F9M82 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.44	28.87 ug/ml	3550264	Perylene-d12	2459254

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmast-4-en-3-one	216708	001058-61-3	96.00
2	Testosterone	134630	000058-22-0	58.00
3	Pregn-4-ene-3,20-dione, (9.beta.,10	156750	002755-10-4	49.00
4	Cholest-5-en-3-one, 4,4-dimethyl-	216711	002220-42-0	45.00
5	Pyrazine, 2-methoxy-3-methyl-	10350	002847-30-5	43.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M83

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725003

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GCB04F83

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/23/2015

GPC Cleanup: (Y/N) Y pH: 6.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	210	U
108-95-2	Phenol	210	U
111-44-4	Bis(2-chloroethyl)ether	210	U
95-57-8	2-Chlorophenol	210	U
95-48-7	2-Methylphenol	210	U
108-60-1	2,2'-Oxybis(1-chloropropane)	210	U
98-86-2	Acetophenone	210	U
106-44-5	4-Methylphenol	210	U
621-64-7	N-Nitroso-di-n-propylamine	210	U
67-72-1	Hexachloroethane	210	U
98-95-3	Nitrobenzene	210	U
78-59-1	Isophorone	210	U
88-75-5	2-Nitrophenol	210	U
105-67-9	2,4-Dimethylphenol	210	U
111-91-1	Bis(2-chloroethoxy)methane	210	U
120-83-2	2,4-Dichlorophenol	210	U
91-20-3	Naphthalene	210	U
106-47-8	4-Chloroaniline	210	U
87-68-3	Hexachlorobutadiene	210	U
105-60-2	Caprolactam	210	U
59-50-7	4-Chloro-3-methylphenol	210	U
91-57-6	2-Methylnaphthalene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U
92-52-4	1,1'-Biphenyl	210	U
91-58-7	2-Chloronaphthalene	210	U
88-74-4	2-Nitroaniline	410	U
131-11-3	Dimethylphthalate	210	U
606-20-2	2,6-Dinitrotoluene	210	U
208-96-8	Acenaphthylene	210	U
99-09-2	3-Nitroaniline	410	U
83-32-9	Acenaphthene	210	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M83

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725003

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GCB04F83

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/23/2015

GPC Cleanup: (Y/N) Y pH: 6.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	410	U
100-02-7	4-Nitrophenol	410	U
132-64-9	Dibenzofuran	210	U
121-14-2	2,4-Dinitrotoluene	210	U
84-66-2	Diethylphthalate	210	U
86-73-7	Fluorene	210	U
7005-72-3	4-Chlorophenyl-phenylether	210	U
100-01-6	4-Nitroaniline	410	U
534-52-1	4,6-Dinitro-2-methylphenol	410	U
86-30-6	N-Nitrosodiphenylamine[1]	210	U
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U
101-55-3	4-Bromophenyl-phenylether	210	U
118-74-1	Hexachlorobenzene	210	U
1912-24-9	Atrazine	210	U
87-86-5	Pentachlorophenol	410	U
85-01-8	Phenanthrene	210	U
120-12-7	Anthracene	210	U
86-74-8	Carbazole	210	U
84-74-2	Di-n-butylphthalate	210	U
206-44-0	Fluoranthene	210	U
129-00-0	Pyrene	210	U
85-68-7	Butylbenzylphthalate	210	U
91-94-1	3,3'-Dichlorobenzidine	210	U
56-55-3	Benzo(a)anthracene	210	U
218-01-9	Chrysene	210	U
117-81-7	Bis(2-ethylhexyl)phthalate	210	U
117-84-0	Di-n-octylphthalate	210	U
205-99-2	Benzo(b)fluoranthene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
50-32-8	Benzo(a)pyrene	210	U
193-39-5	Indeno(1,2,3-cd)pyrene	210	U
53-70-3	Dibenzo(a,h)anthracene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
58-90-2	2,3,4,6-Tetrachlorophenol	210	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M83

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725003
Sample wt/vol: 30.0 (g/mL) g Lab File ID: GCB04F83
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 20. Decanted: (Y/N) N Date Received: 06/05/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/23/2015
GPC Cleanup: (Y/N) Y pH: 6.8 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	814-78-8	3-Buten-2-one, 3-methyl-	2.23	210	JN
02		Unknown 2-Butene, 1-methoxy-, (Z)-	2.32	250	J
03		Unknown Thiazole	2.85	180	J
04		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.53	6000	JB
05		Unknown Hexane, 2-bromo-	4.23	680	J
06		Unknown 1H-Pyrrole-2,5-dione	4.32	840	J
07		Unknown .beta.-Acetylacrylic acid	5.02	190	J
08		Unknown Ethanone, 1-oxiranyl-	5.15	1400	J
09	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	12.32	240	JN
10	5129-60-2	Pentadecanoic acid, 14-methyl-, methyl ester	12.47	260	JN
11	57-10-3	n-Hexadecanoic acid	12.72	470	JN
12	638-58-4	Tetradecanamide	14.21	430	JN
13	301-02-0	9-Octadecenamide, (Z)-	15.13	3100	JNB
14		Unknown 7,7-Dimethyl-2,3-dioxobicyclo[2.2.1]hept	16.26	250	J
15	301-02-0	9-Octadecenamide, (Z)-	17.06	330	JN
16	111-02-4	Squalene	17.24	190	JN
17		Unknown Phthalic anhydride	18.72	270	J
18	83-48-7	Stigmasterol	21.64	320	JN
19	83-46-5	.beta.-Sitosterol	22.52	1200	JN
20	1058-61-3	Stigmast-4-en-3-one	24.43	850	JN
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	4600	J

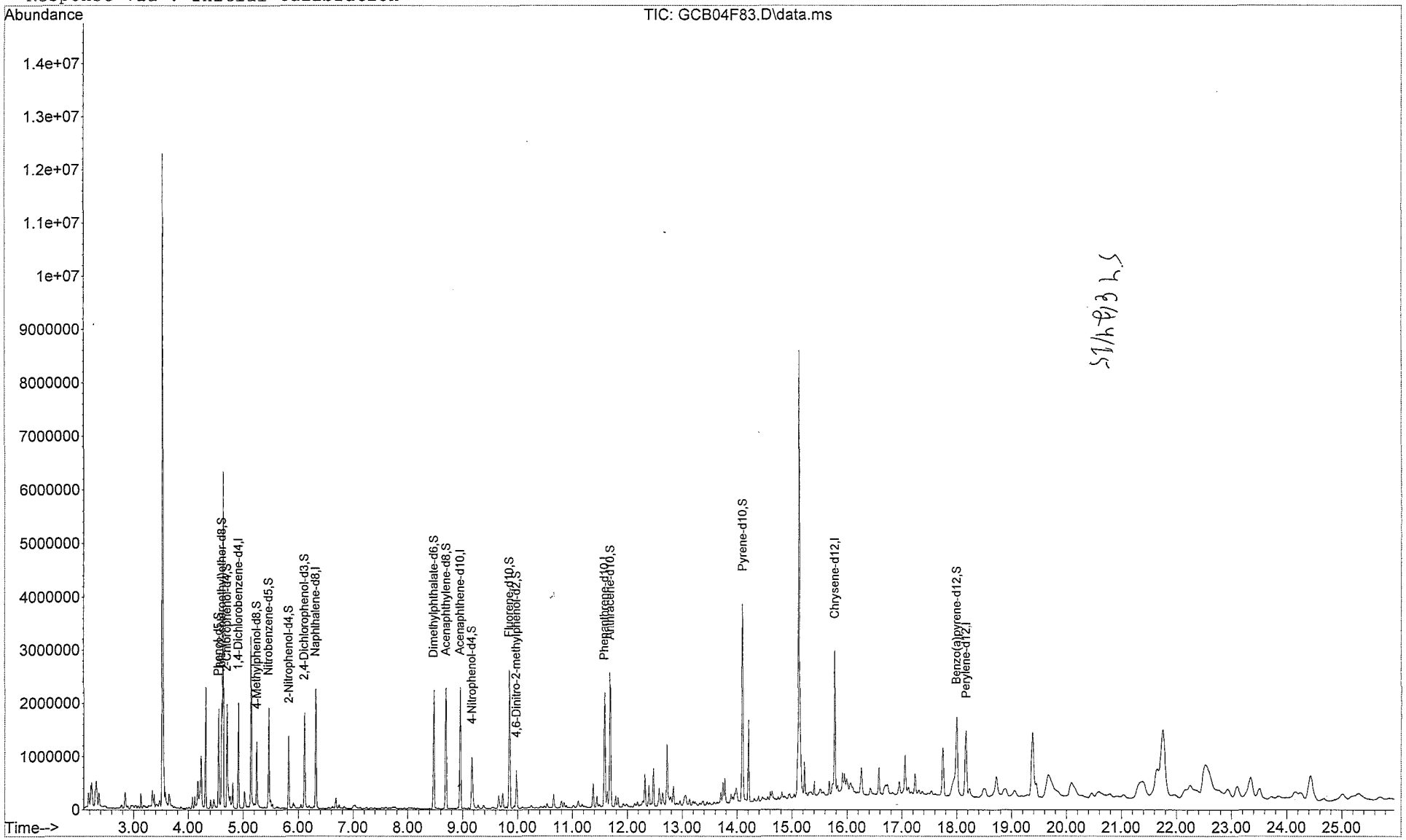
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB04F83.D Vial: 26
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 24 13:35:32 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB04F83.D Vial: 26
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 24 13:35:32 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.92	152	306186	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1194415	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	702991	20.00 ug/ml
59) Phenanthrene-d10	11.59	188	1190103	20.00 ug/ml
73) Chrysene-d12	15.78	240	1185926	20.00 ug/ml
81) Perylene-d12	18.17	264	926173	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.55	99	620212	23.277ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	410517	19.770ug/mL
7) 2-Chlorophenol-d4	4.70	132	500445	22.245ug/ml
13) 4-Methylphenol-d8	5.25	113	264697	14.852ug/mL
17) Nitrobenzene-d5	5.46	128	232698	22.177ug/ml
21) 2-Nitrophenol-d4	5.83	143	250423	22.580ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	405310	23.470ug/mL
28) 4-Chloroaniline-d4	6.40	131	943	0.050ug/mL
42) Dimethylphthalate-d6	8.47	166	1141685	25.899ug/mL
45) Acenaphthylene-d8	8.70	160	1412188	23.573ug/mL
50) 4-Nitrophenol-d4	9.17	143	237486	26.408ug/mL
57) Fluorene-d10	9.85	176	997953	26.509ug/mL
61) 4,6-Dinitro-2-methylphenol	9.98	200	122814	14.539ug/mL
69) Anthracene-d10	11.69	188	1438375	22.791ug/mL
75) Pyrene-d10	14.10	212	1481997	25.041ug/mL
86) Benzo(a)pyrene-d12	18.00	264	981407	22.114ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB04F83.D Vial: 26
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 24 13:35:32 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	0.00	152		Not Detected	
46)	3-Nitroaniline	0.00	138		Not Detected	
47)	Acenaphthene	0.00	153		Not Detected	
48)	2,4-Dinitrophenol	0.00	184		Not Detected	
49)	4-Nitrophenol	0.00	109		Not Detected	
51)	Dibenzofuran	0.00	168		Not Detected	
52)	2,4-Dinitrotoluene	0.00	165		Not Detected	
53)	2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54)	Diethylphthalate	0.00	149		Not Detected	
55)	4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56)	Fluorene	0.00	166		Not Detected	
58)	4-Nitroaniline	0.00	138		Not Detected	
60)	4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62)	N-Nitrosodiphenylamine	0.00	169		Not Detected	
63)	4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64)	Hexachlorobenzene	0.00	284		Not Detected	
65)	Atrazine	0.00	200		Not Detected	
66)	Pentachlorophenol	0.00	266		Not Detected	
67)	Phenanthrene	0.00	178		Not Detected	
68)	Anthracene	0.00	178		Not Detected	
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	0.00	202		Not Detected	
74)	Pyrene	0.00	202		Not Detected	
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	0.00	228		Not Detected	
79)	Chrysene	0.00	228		Not Detected	
80)	Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	0.00	252		Not Detected	
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	0.00	252		Not Detected	
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

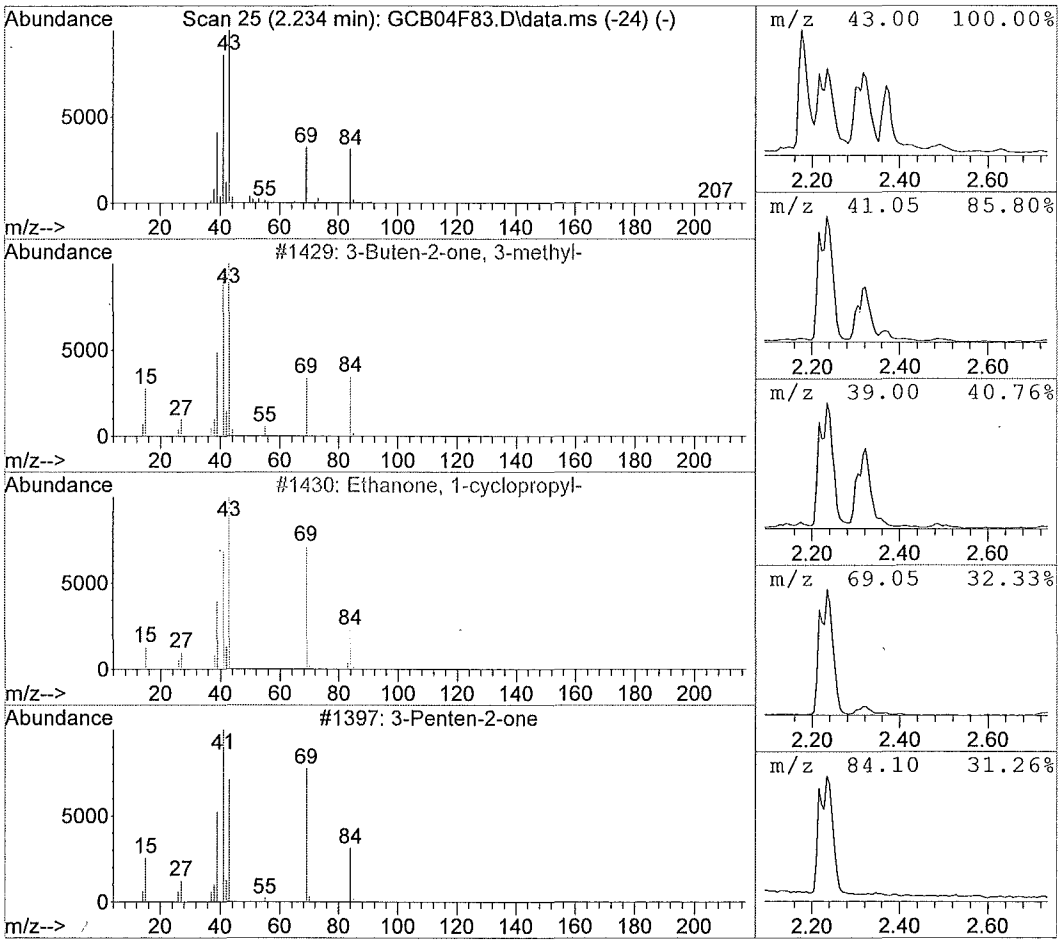
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB04F83.D Vial: 26
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.23	5.09 ug/ml	536123	1,4-Dichlorobenzene-d4	2104965

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Buten-2-one, 3-methyl-	1429	000814-78-8	86.00
2	Ethanone, 1-cyclopropyl-	1430	000765-43-5	72.00
3	3-Penten-2-one	1397	000625-33-2	50.00
4	Propanal, 2-methyl-	685	000078-84-2	42.00
5	Cyclopropane, 1,1,2-trimethyl-	1520	004127-45-1	35.00

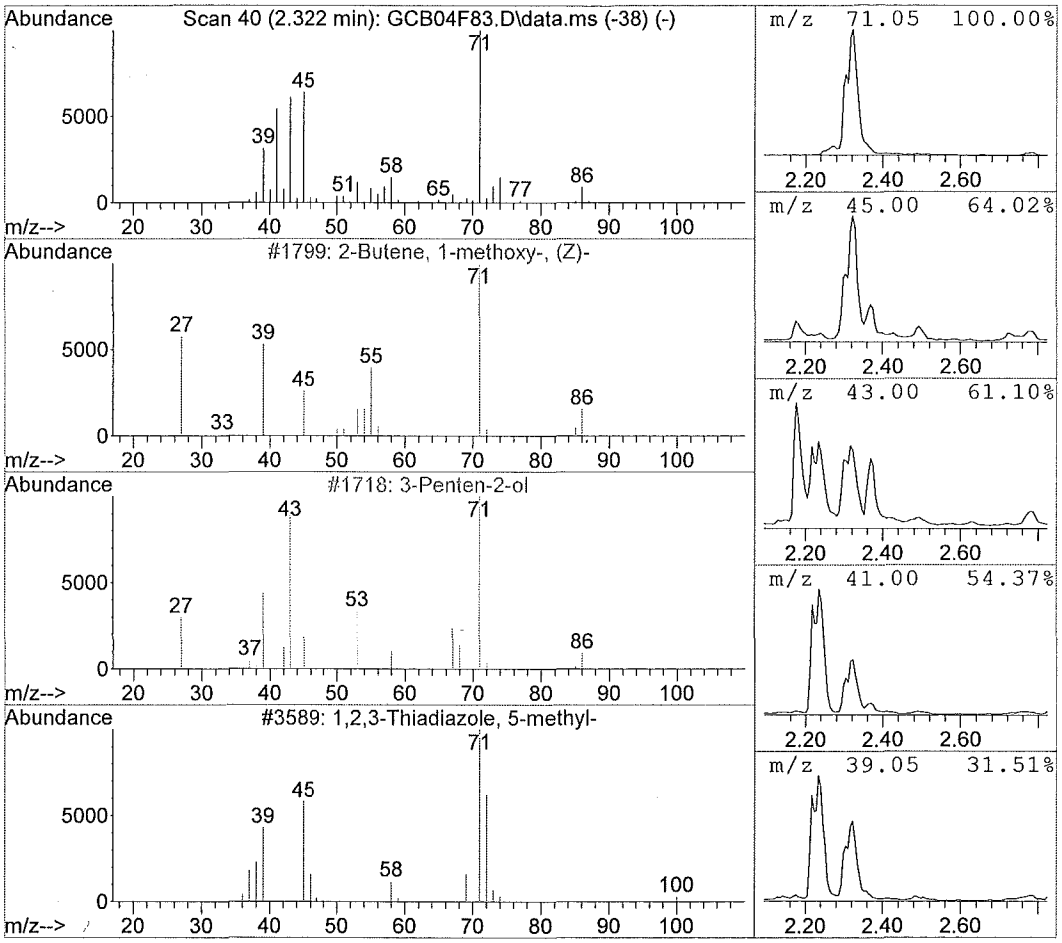


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB04F83.D Vial: 26
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.32	6.00 ug/ml	631923	1,4-Dichlorobenzene-d4	2104965

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Butene, 1-methoxy-, (Z)-	1799	010034-16-9	47.00
2	3-Penten-2-ol	1718	001569-50-2	38.00
3	1,2,3-Thiadiazole, 5-methyl-	3589	050406-54-7	38.00
4	Cyclopropanemethanol, .alpha.-butyl	12636	004379-16-2	37.00
5	2-Hexene, 1-methoxy-, (E)-	7581	056052-83-6	33.00



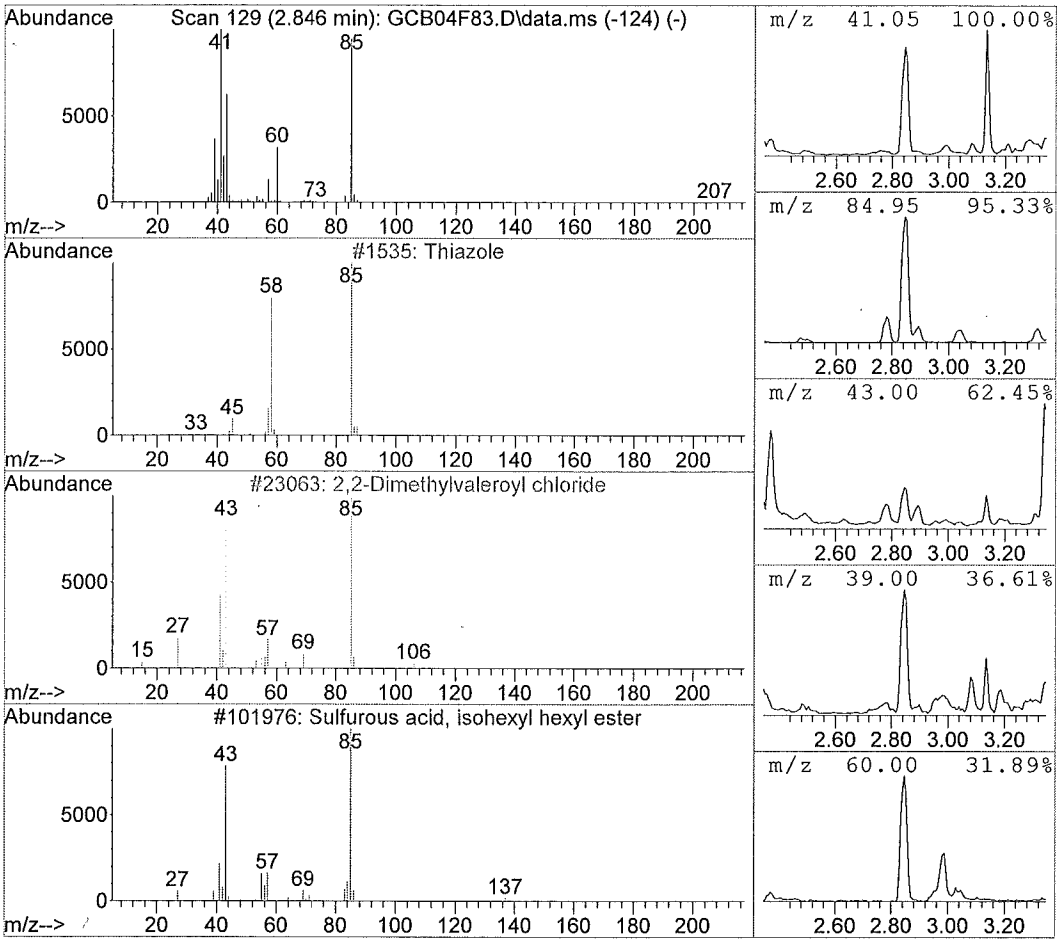
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB04F83.D Vial: 26
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.85	4.44 ug/ml	466974	1,4-Dichlorobenzene-d4	2104965

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Thiazole	1535	000288-47-1	43.00
2	2,2-Dimethylvaleroyl chloride	23063	015721-22-9	28.00
3	Sulfurous acid, isohexyl hexyl este	101976	1000309-12-8	28.00
4	Sulfurous acid, hexyl pentyl ester	90252	1000309-14-1	28.00
5	Ethyl 2,4-dioxovalerate	29867	000615-79-2	25.00



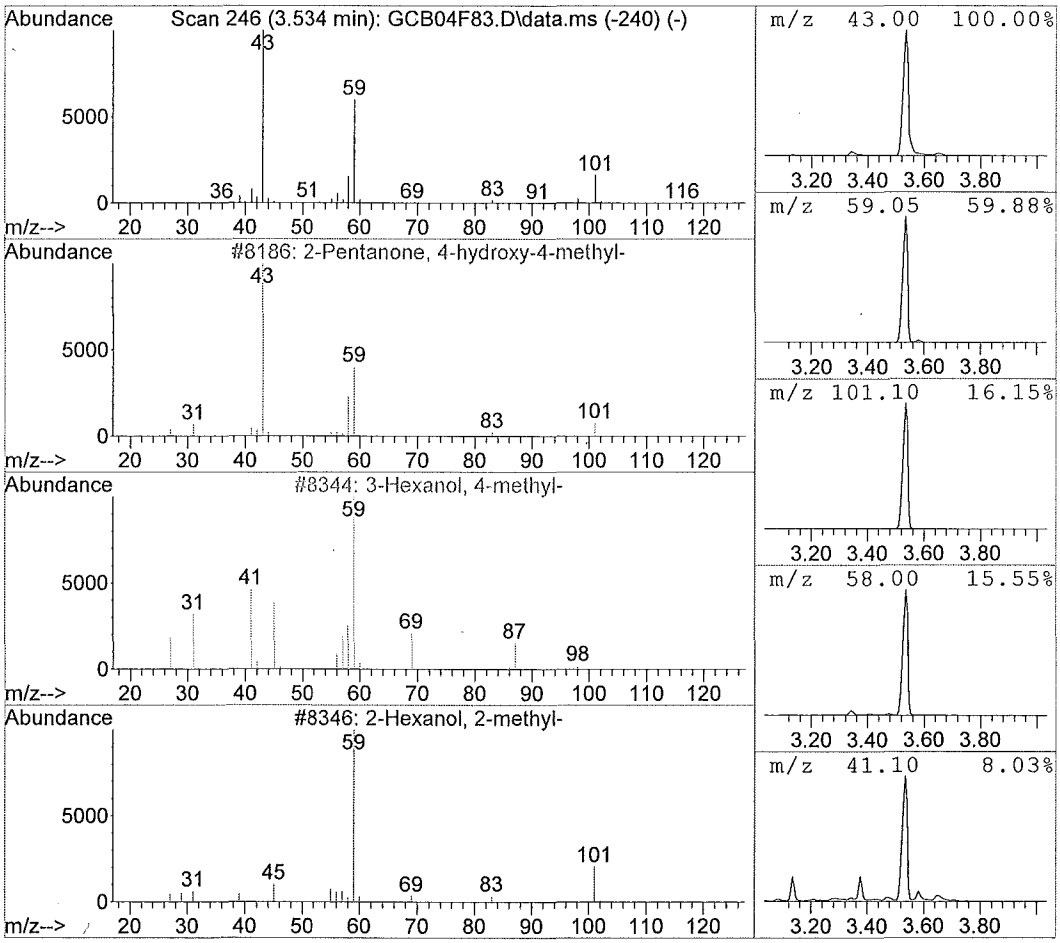
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB04F83.D Vial: 26
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.53	144.48 ug/ml	15206256	1,4-Dichlorobenzene-d4	2104965

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
2	3-Hexanol, 4-methyl-	8344	000615-29-2	33.00
3	2-Hexanol, 2-methyl-	8346	000625-23-0	28.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	23.00
5	2,3-Butanedione, monooxime	4030	000057-71-6	9.00



Library Search Compound Report

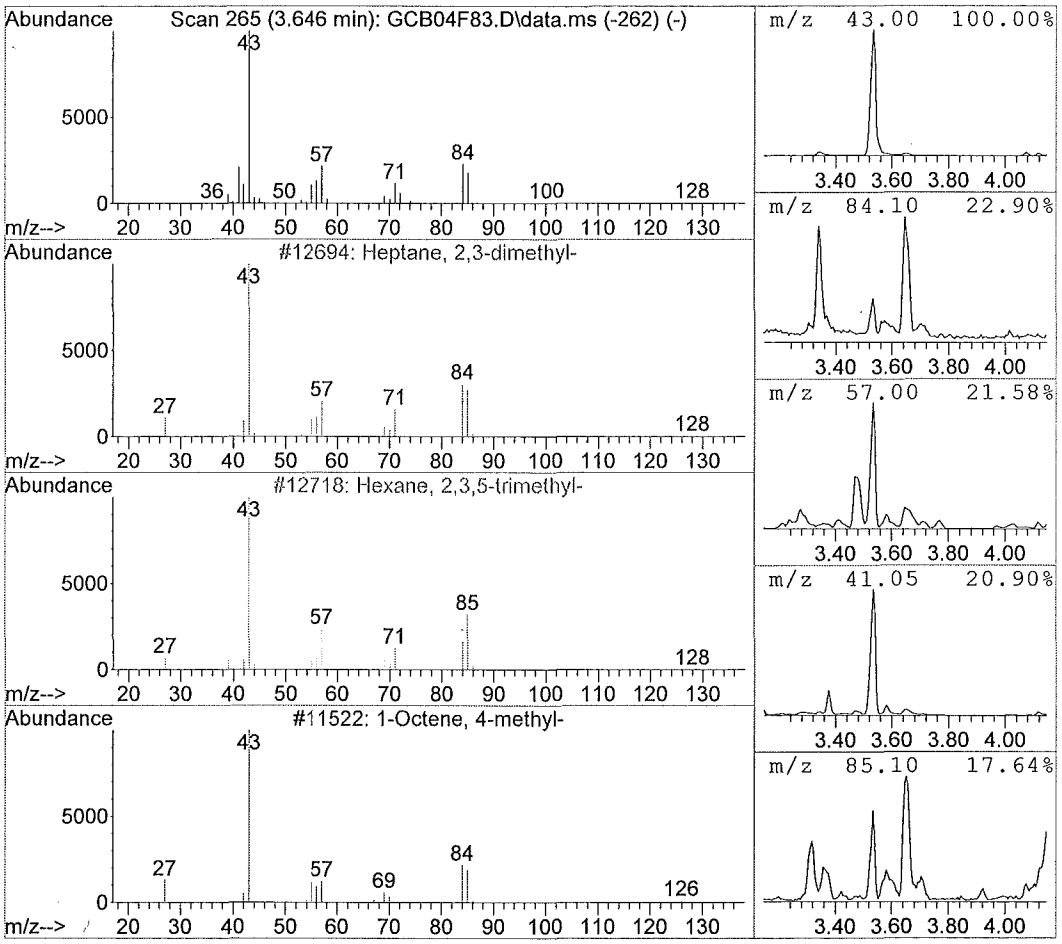
Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB04F83.D Vial: 26
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.65	3.43 ug/ml	360590	1,4-Dichlorobenzene-d4	2104965

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12694	003074-71-3	80.00
2	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	59.00
3	1-Octene, 4-methyl-	11522	013151-12-7	59.00
4	Octane, 4-methyl-	12674	002216-34-4	59.00
5	Decane, 5,6-dimethyl-	38347	001636-43-7	56.00

BA

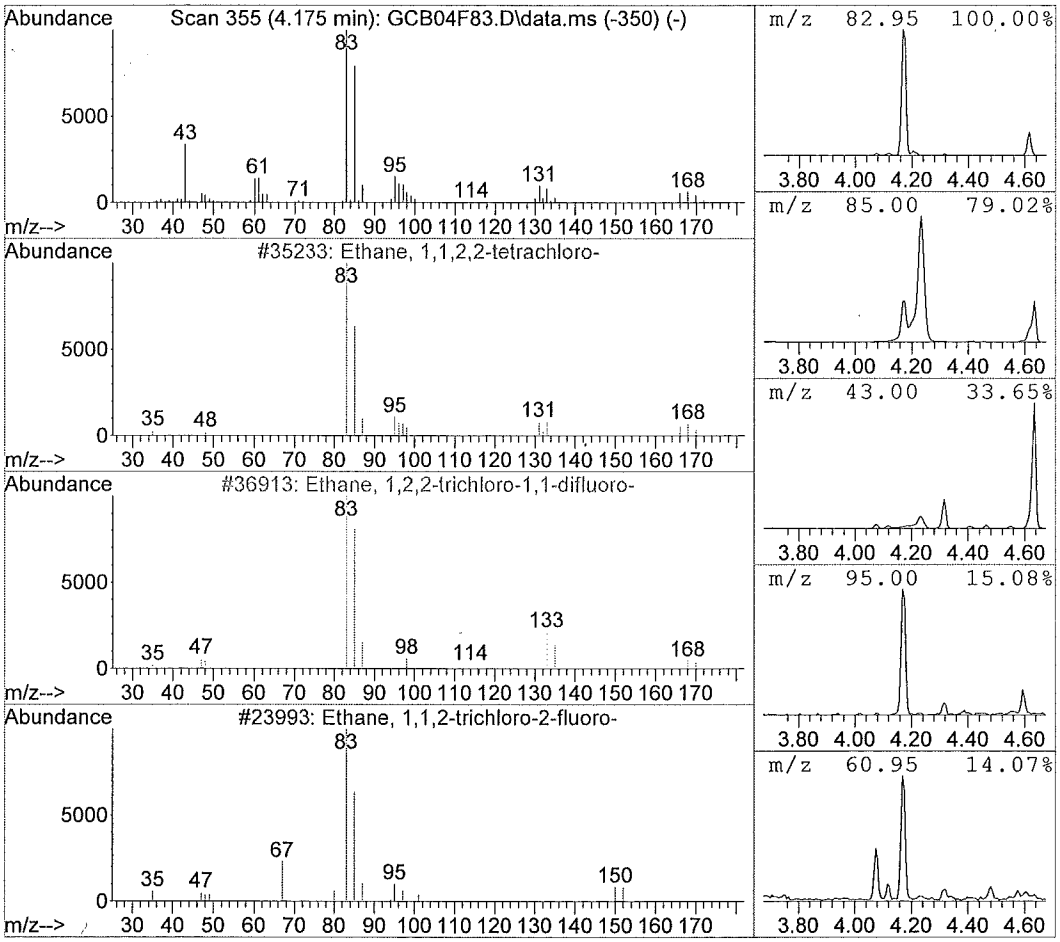


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB04F83.D Vial: 26
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.17	6.87 ug/ml	723063	1,4-Dichlorobenzene-d4	2104965

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro- VOA	35233	000079-34-5	95.00
2	Ethane, 1,2,2-trichloro-1,1-difluor	36913	000354-21-2	76.00
3	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	64.00
4	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	45.00
5	Methane, dichloronitro-	13083	007119-89-3	42.00



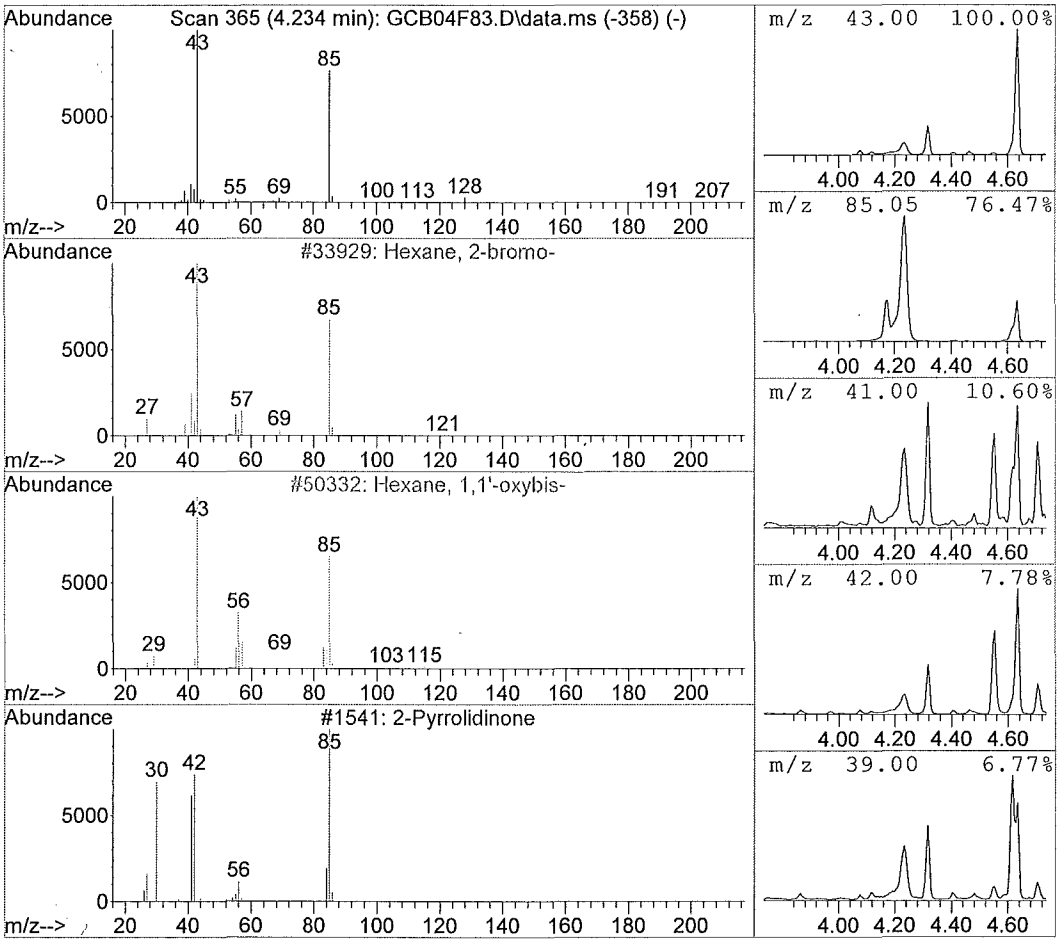
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB04F83.D Vial: 26
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.23	16.21 ug/ml	1706287	1,4-Dichlorobenzene-d4	2104965

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2-bromo-	33929	003377-86-4	43.00
2	Hexane, 1,1'-oxybis-	50332	000112-58-3	43.00
3	2-Pyrrolidinone	1541	000616-45-5	42.00
4	4-Methoxy-3-buten-2-one	3689	004652-27-1	38.00
5	2(3H)-Furanone, dihydro-5-propyl-	12280	000105-21-5	9.00



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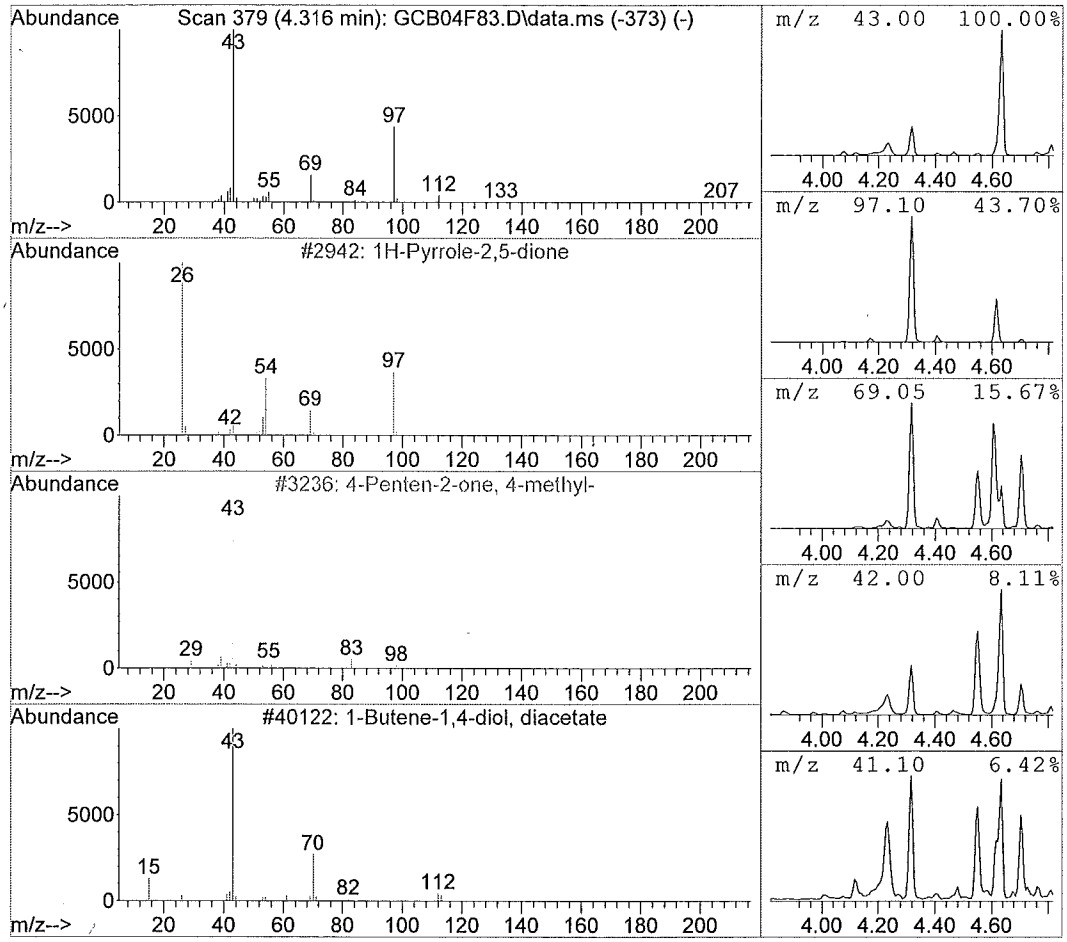
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.32	20.18 ug/ml	2124063	1,4-Dichlorobenzene-d4	2104965

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	50.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	1-Butene-1,4-diol, diacetate	40122	054484-67-2	9.00
4	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00
5	5-Hexen-2-one	3158	000109-49-9	9.00



Library Search Compound Report

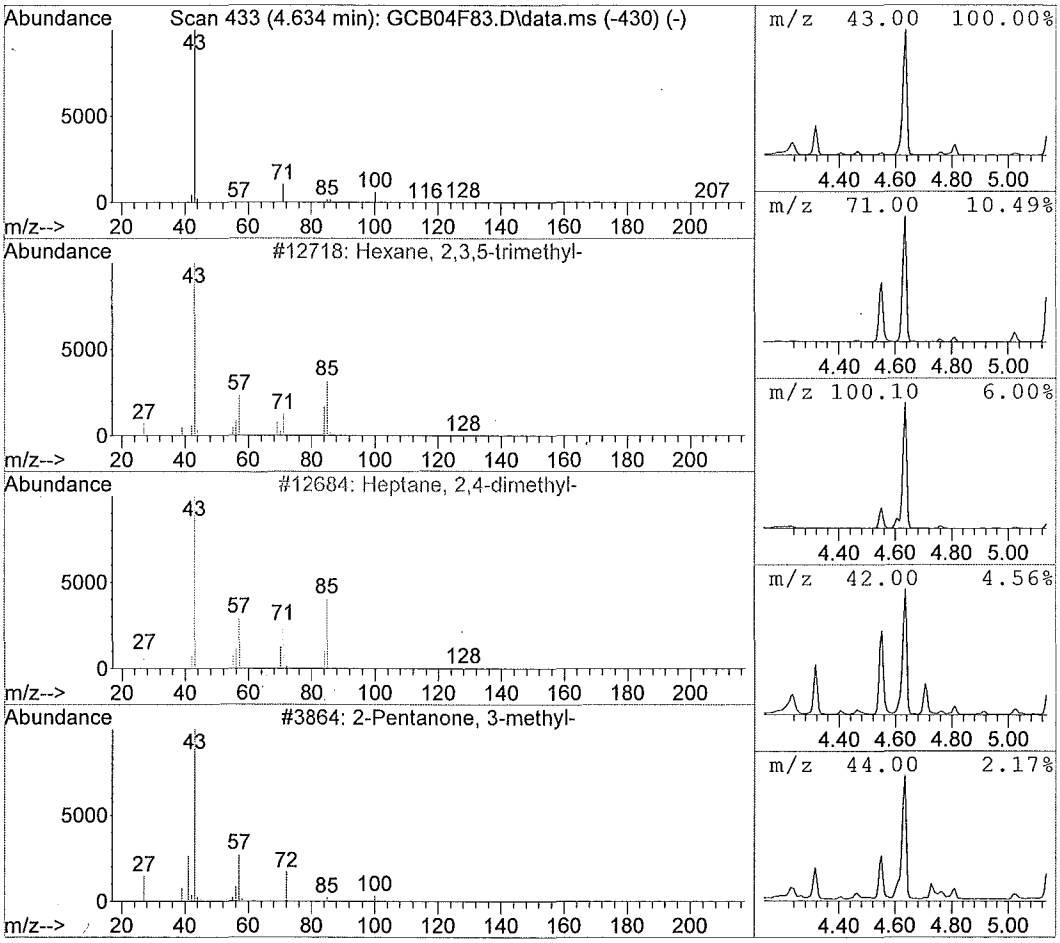
Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB04F83.D Vial: 26
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.63	54.50 ug/ml	5735632	1,4-Dichlorobenzene-d4	2104965

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
2	Heptane, 2,4-dimethyl-	12684	002213-23-2	5.00
3	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
4	1-Butanol, 2-methylene-, acetate	12273	055670-09-2	5.00
5	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00

BA



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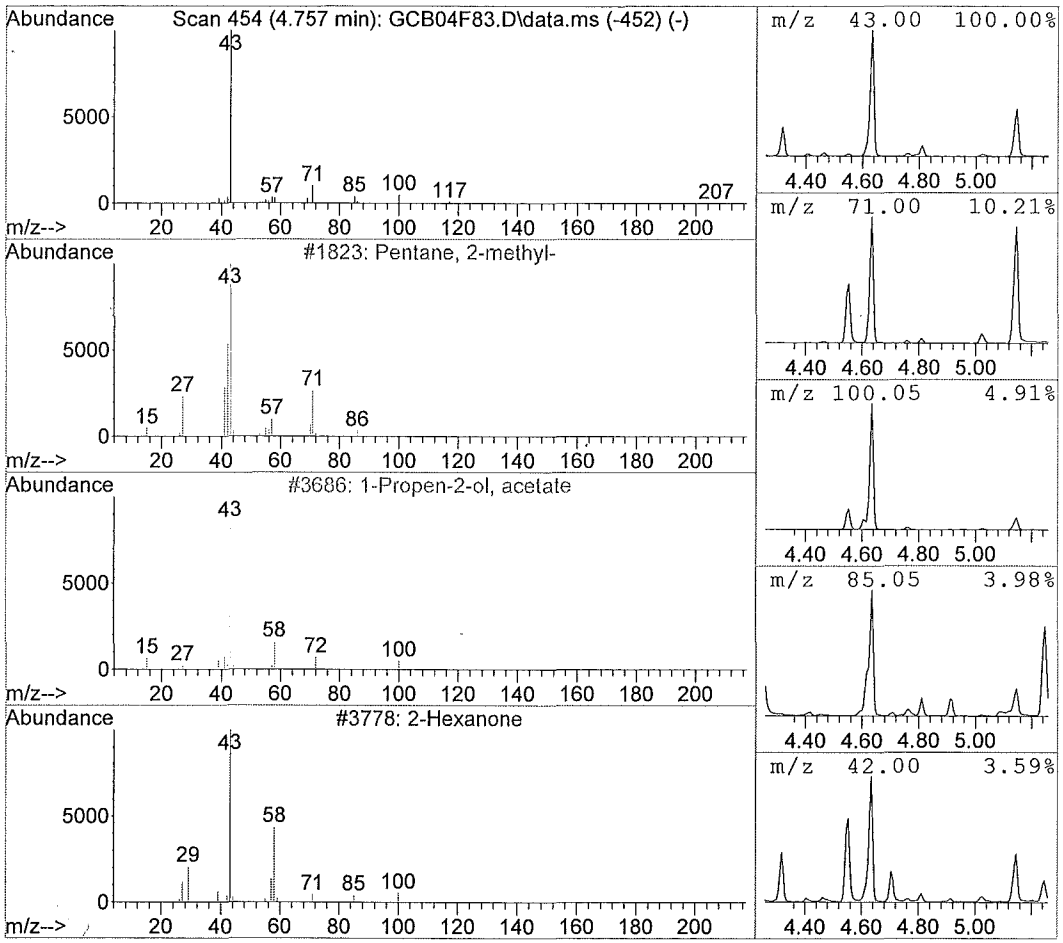
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.76	2.81 ug/ml	295401	1,4-Dichlorobenzene-d4	2104965

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentane, 2-methyl- BA	1823	000107-83-5	9.00
2	1-Propen-2-ol, acetate	3686	000108-22-5	9.00
3	2-Hexanone	3778	000591-78-6	9.00
4	2-Octanone	12438	000111-13-7	9.00
5	Methyl Isobutyl Ketone	3868	000108-10-1	7.00



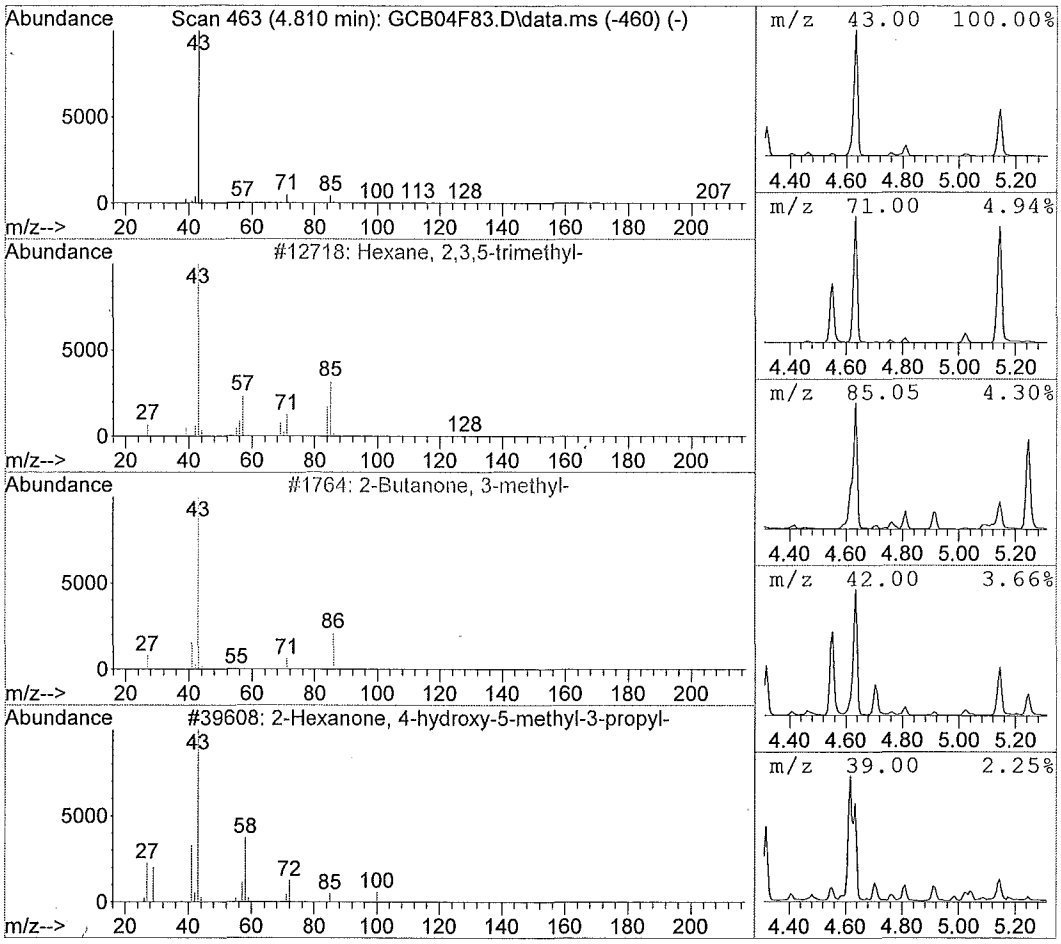
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB04F83.D Vial: 26
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.81	4.03 ug/ml	424642	1,4-Dichlorobenzene-d4	2104965

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	5.00
2	2-Butanone, 3-methyl-	1764	000563-80-4	4.00
3	2-Hexanone, 4-hydroxy-5-methyl-3-pr	39608	061141-74-0	4.00
4	Butane, 2,3-dimethyl-	1832	000079-29-8	3.00
5	Heptane, 2,3-dimethyl-	12694	003074-71-3	3.00



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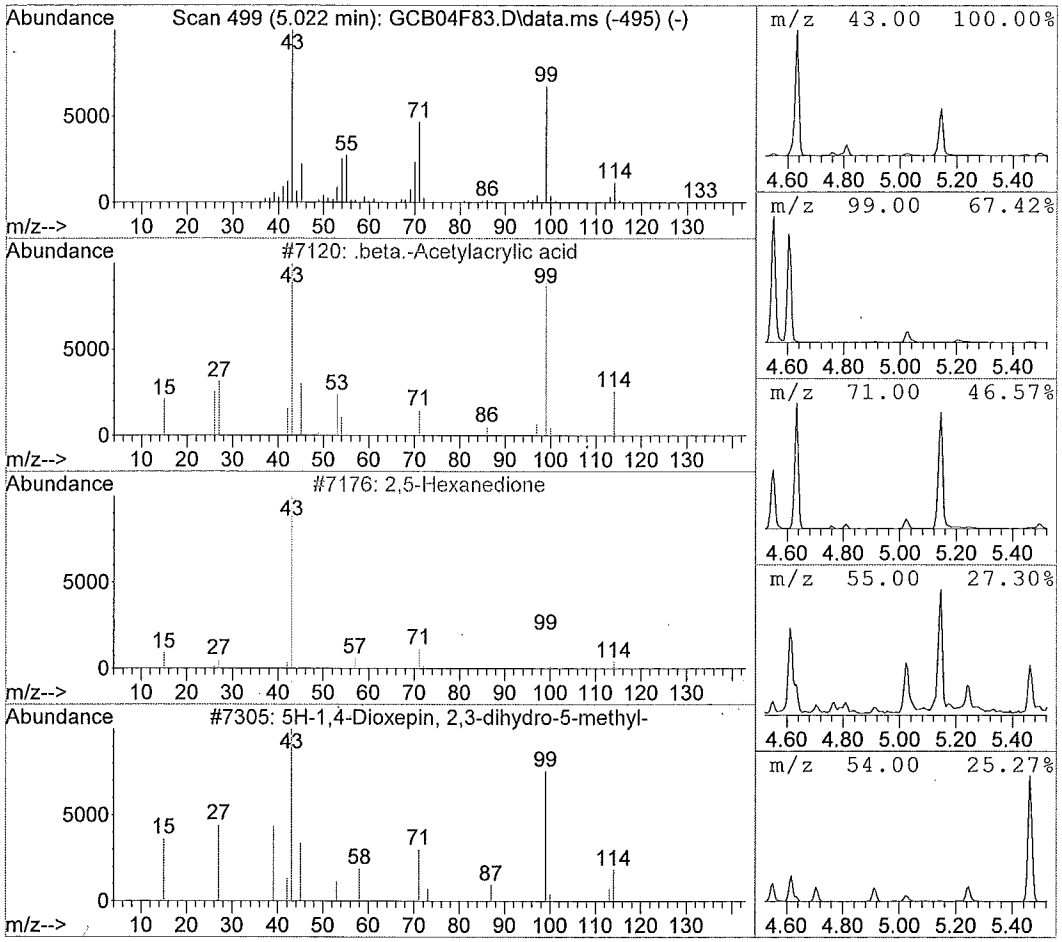
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.02	4.49 ug/ml	472586	1,4-Dichlorobenzene-d4	2104965

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	.beta.-Acetylacrylic acid	7120	004743-82-2	43.00
2	2,5-Hexanedione	7176	000110-13-4	43.00
3	5H-1,4-Dioxepin, 2,3-dihydro-5-meth	7305	038653-36-0	43.00
4	2H-Pyran-2-one, 6-hexyltetrahydro-	48502	000710-04-3	43.00
5	4-Methylthiazole	3458	000693-95-8	38.00

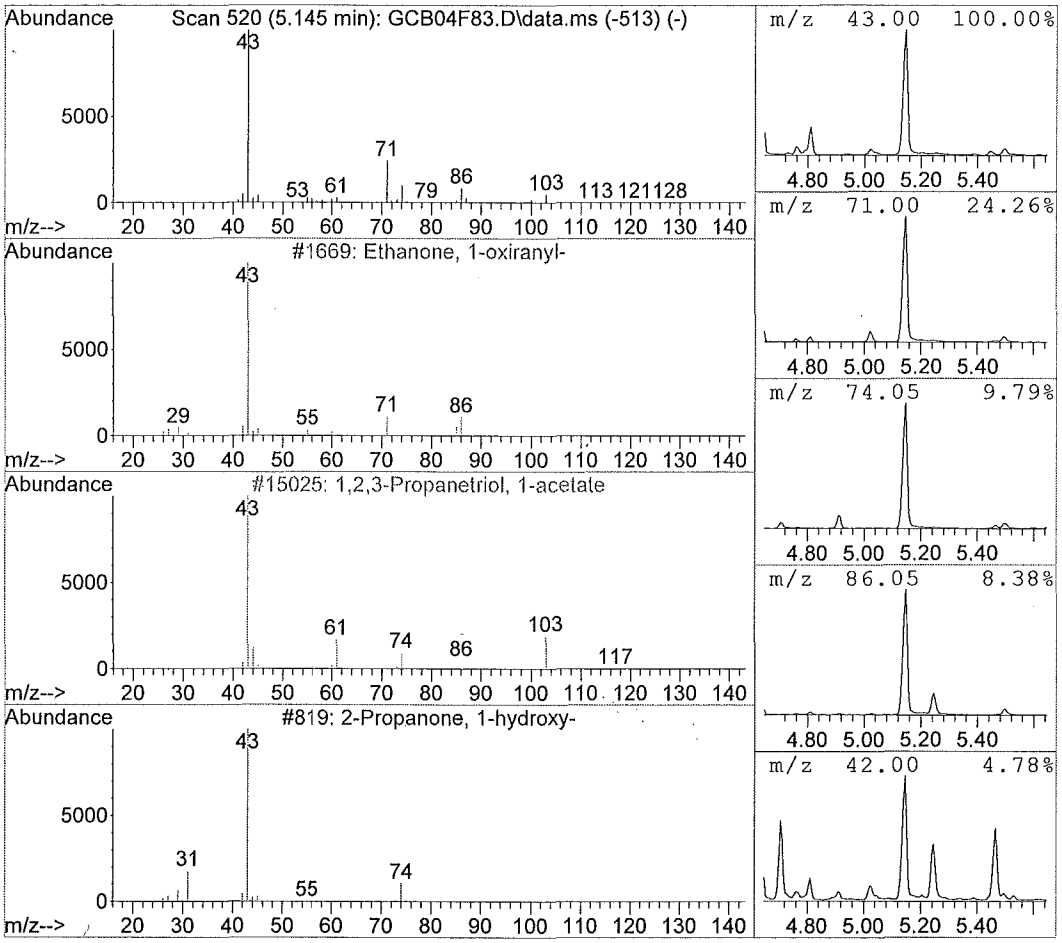


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB04F83.D Vial: 26
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.15	33.40 ug/ml	3515040	1,4-Dichlorobenzene-d4	2104965

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanone, 1-oxiranyl-	1669	004401-11-0	38.00
2	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	32.00
3	2-Propanone, 1-hydroxy-	819	000116-09-6	27.00
4	Butanoic acid, 3-hydroxy-, methyl e	8724	001487-49-6	12.00
5	Diacetyl sulphide	8654	003232-39-1	10.00



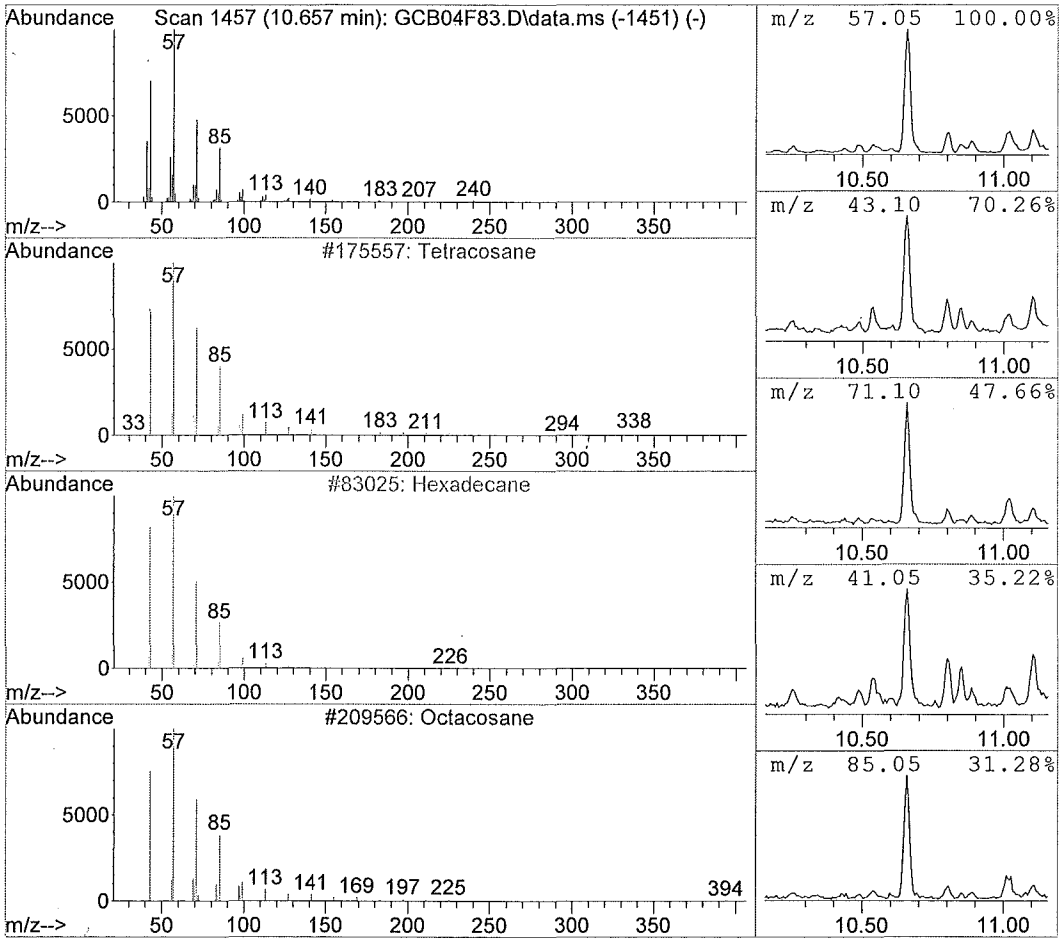
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB04F83.D Vial: 26
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.66	2.42 ug/ml	381893	Phenanthrene-d10	3157578

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetracosane	175557	000646-31-1	90.00
2	Hexadecane	83025	000544-76-3	90.00
3	Octacosane	209566	000630-02-4	90.00
4	Tridecane, 6-methyl-	59895	013287-21-3	90.00
5	Heptadecane	94345	000629-78-7	87.00

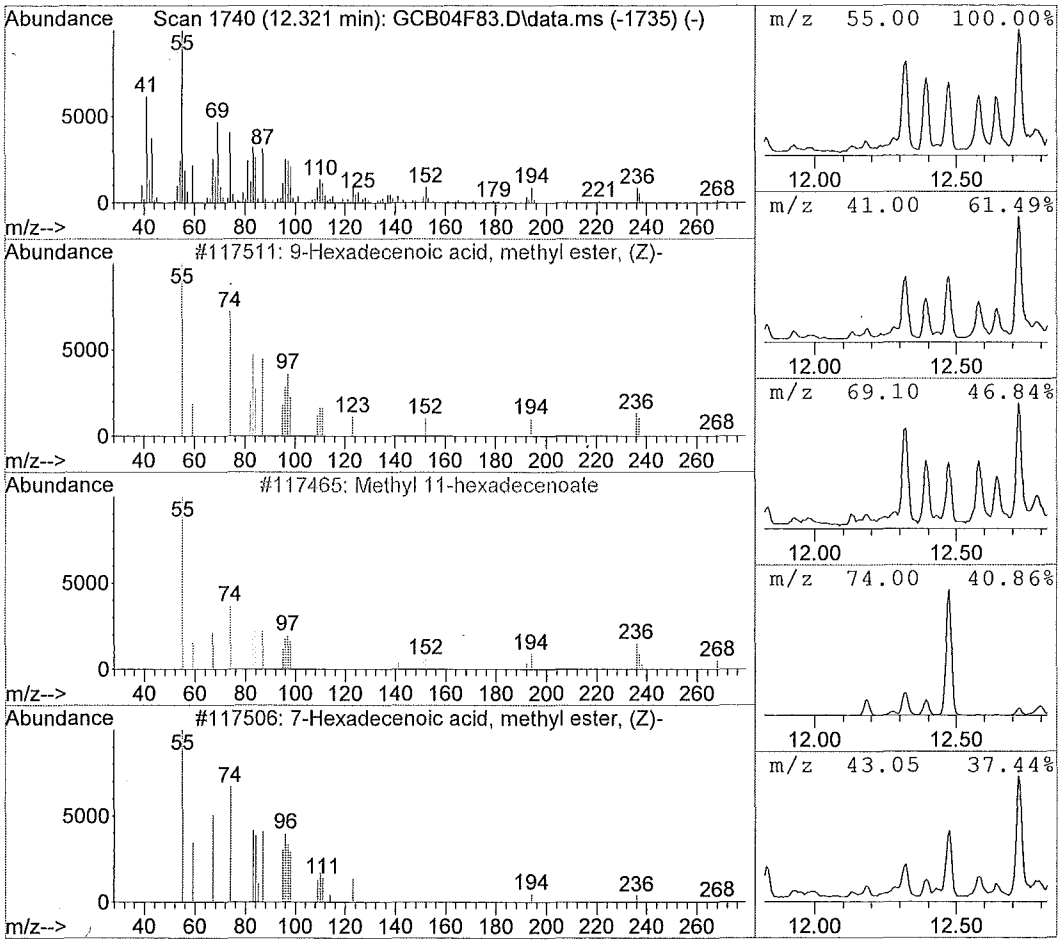


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB04F83.D Vial: 26
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.32	5.64 ug/ml	891208	Phenanthrene-d10	3157578

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Hexadecenoic acid, methyl ester,	117511	001120-25-8	98.00
2	Methyl 11-hexadecenoate	117465	1000336-35-5	91.00
3	7-Hexadecenoic acid, methyl ester,	117506	056875-67-3	90.00
4	9-Octadecenoic acid (Z)-, methyl es	141302	000112-62-9	87.00
5	Methyl myristoleate	94118	056219-06-8	87.00

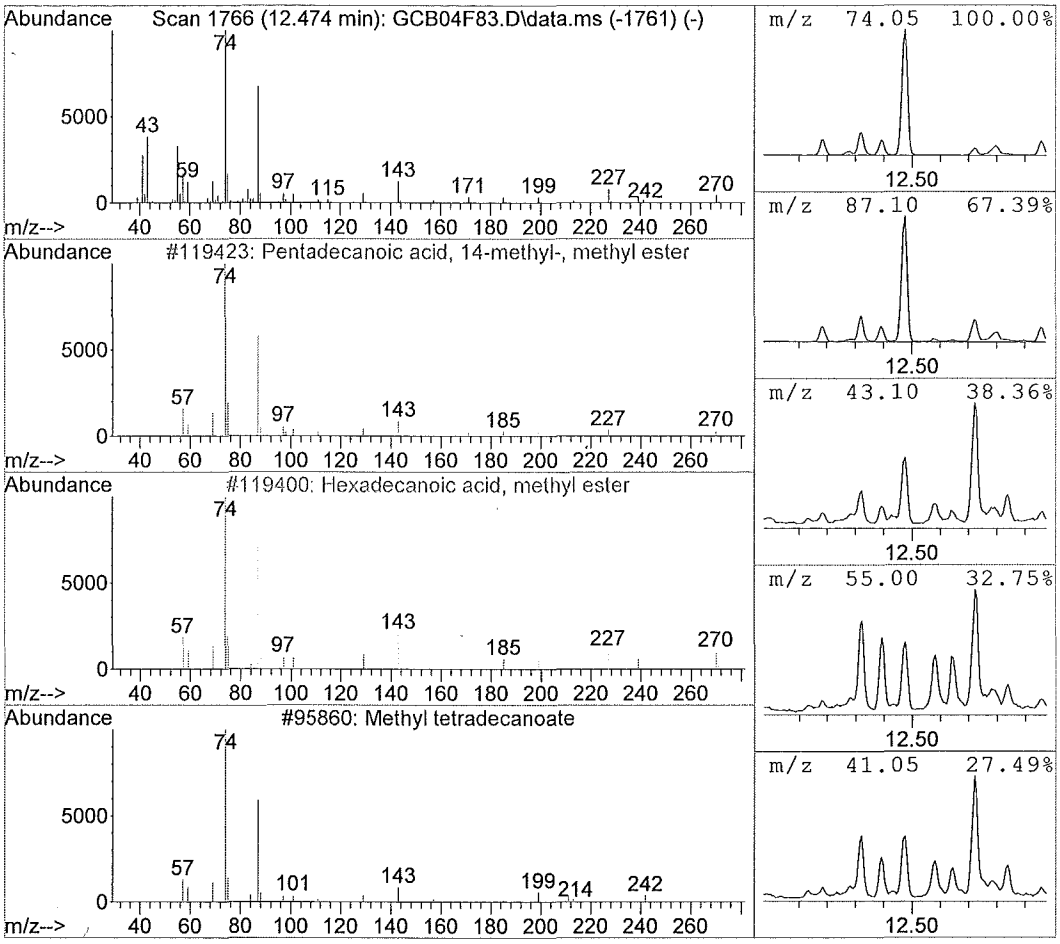


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB04F83.D Vial: 26
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.47	6.33 ug/ml	998861	Phenanthrene-d10	3157578

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	98.00
2	Hexadecanoic acid, methyl ester	119400	000112-39-0	97.00
3	Methyl tetradecanoate	95860	000124-10-7	90.00
4	Tridecanoic acid, methyl ester	84485	001731-88-0	87.00
5	Methyl 11-methyl-dodecanoate	84473	1000336-45-1	86.00



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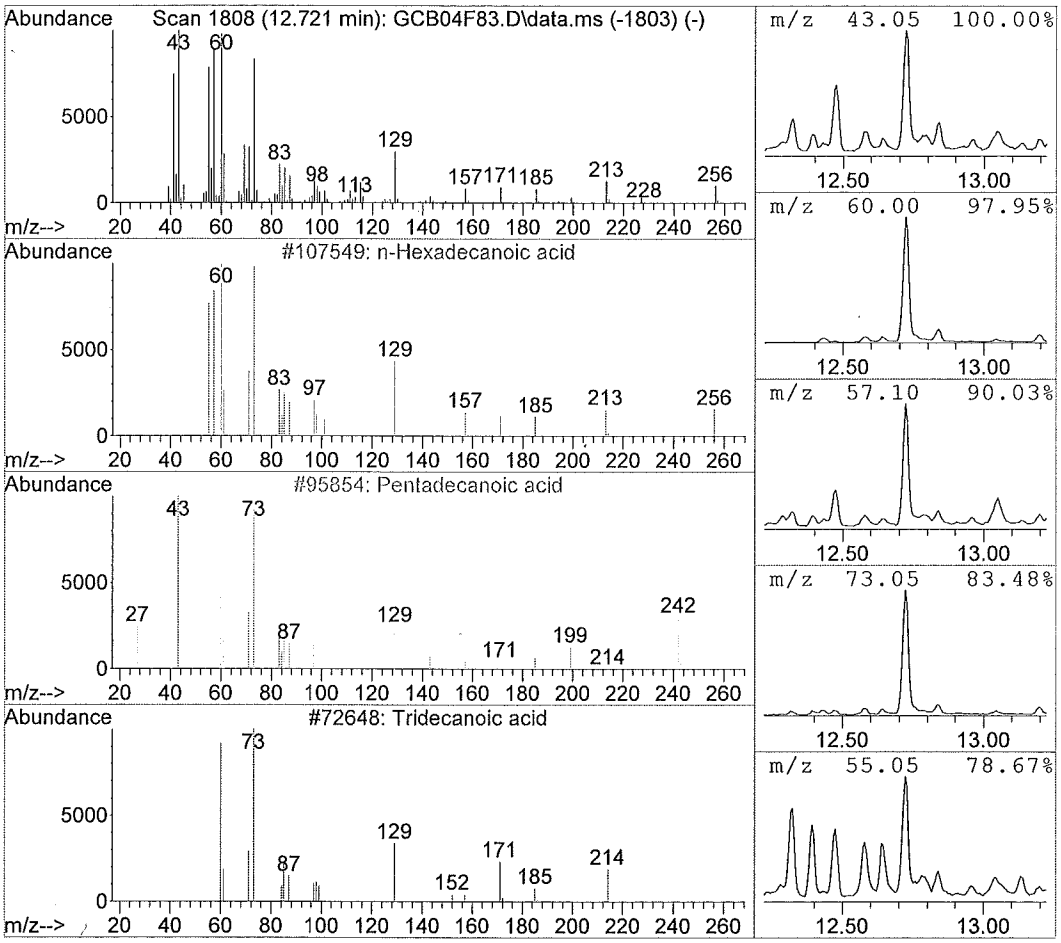
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.72	11.39 ug/ml	1798373	Phenanthrene-d10	3157578

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Pentadecanoic acid	95854	001002-84-2	74.00
3	Tridecanoic acid	72648	000638-53-9	72.00
4	Nonanoic acid	30180	000112-05-0	50.00
5	Undecanoic acid	50051	000112-37-8	45.00



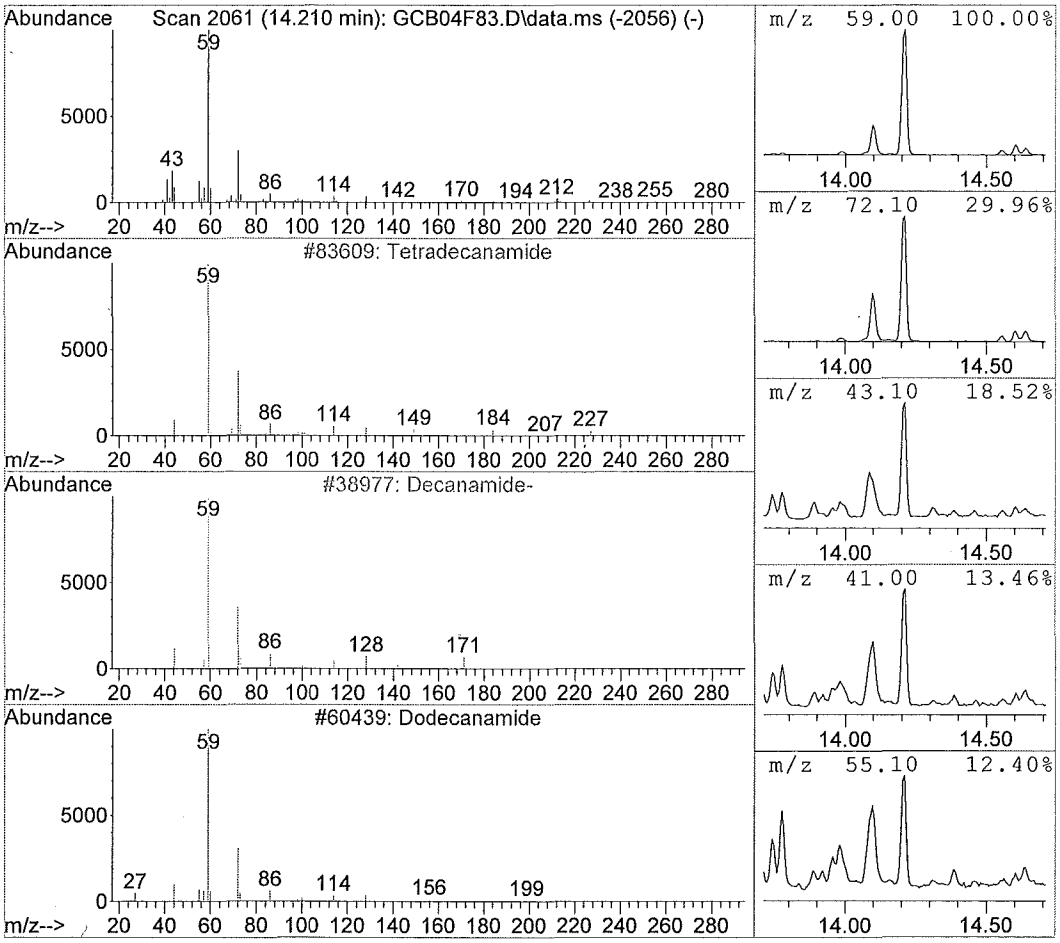
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB04F83.D Vial: 26
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.21	10.23 ug/ml	1841905	Chrysene-d12	3599717

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83609	000638-58-4	94.00
2	Decanamide-	38977	002319-29-1	90.00
3	Dodecanamide	60439	001120-16-7	90.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	72.00

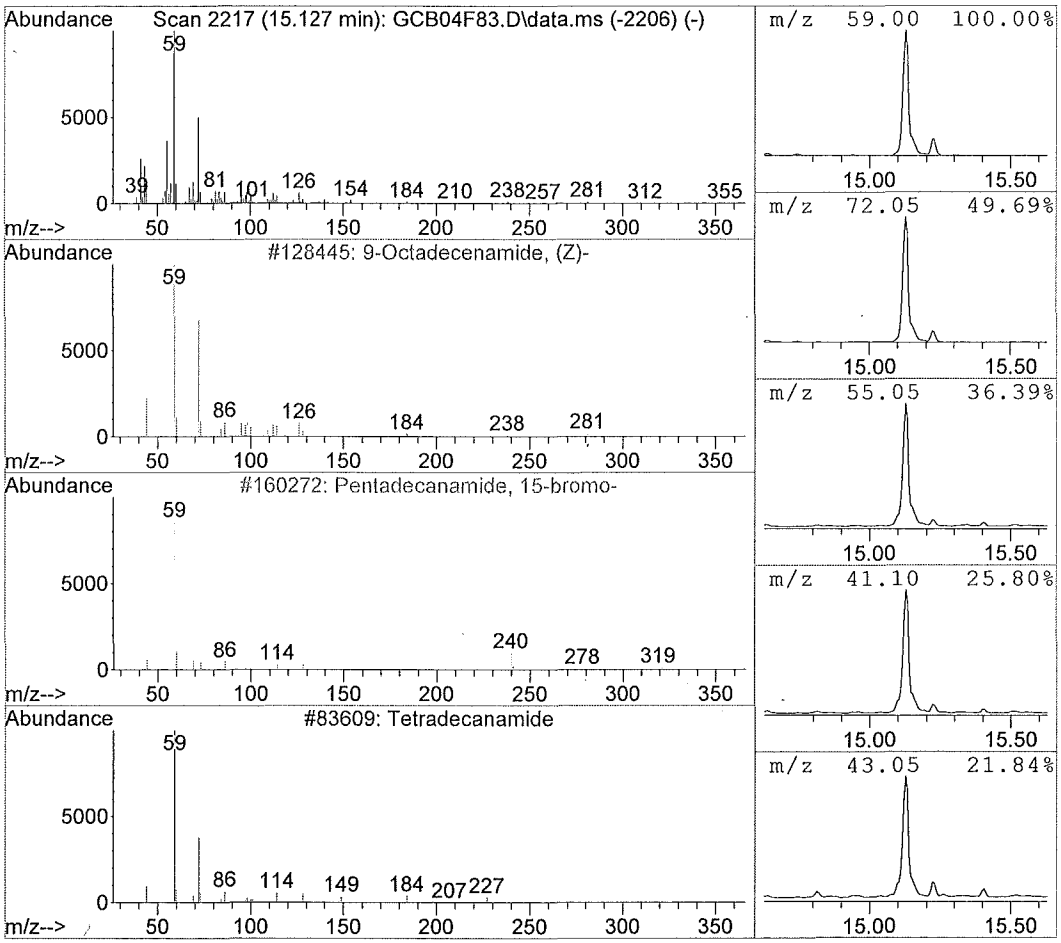


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB04F83.D Vial: 26
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.13	73.25 ug/ml	13184366	Chrysene-d12	3599717

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00
3	Tetradecanamide	83609	000638-58-4	56.00
4	Hexadecanamide	106565	000629-54-9	56.00
5	Decanamide-	38977	002319-29-1	56.00

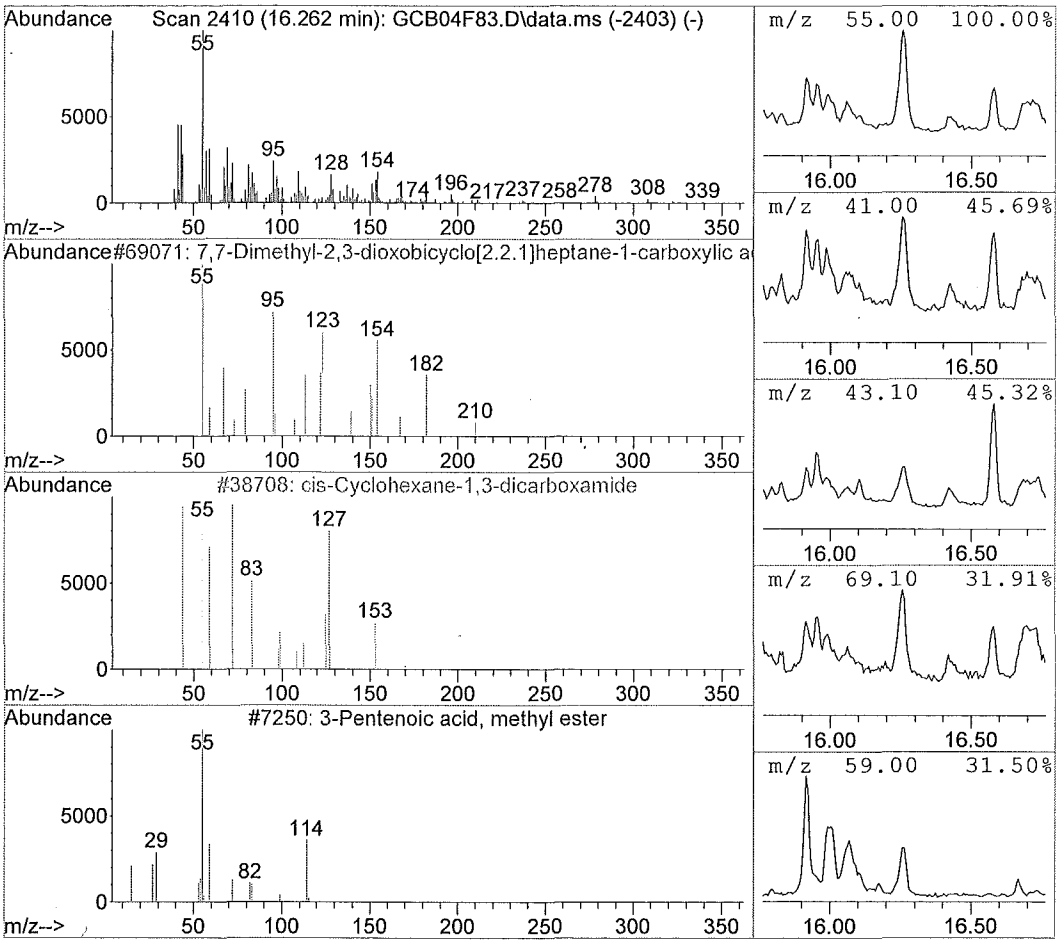


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB04F83.D Vial: 26
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.26	6.05 ug/ml	1089274	Chrysene-d12	3599717

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7,7-Dimethyl-2,3-dioxobicyclo[2.2.1	69071	040724-68-3	22.00
2	cis-Cyclohexane-1,3-dicarboxamide	38708	1000143-74-8	18.00
3	3-Pentenoic acid, methyl ester	7250	000818-58-6	11.00
4	Propanoic acid, 2,3-dibromo-	86285	000600-05-5	10.00
5	2,2-Dimethylhex-4-enylamine	11896	133885-74-2	10.00

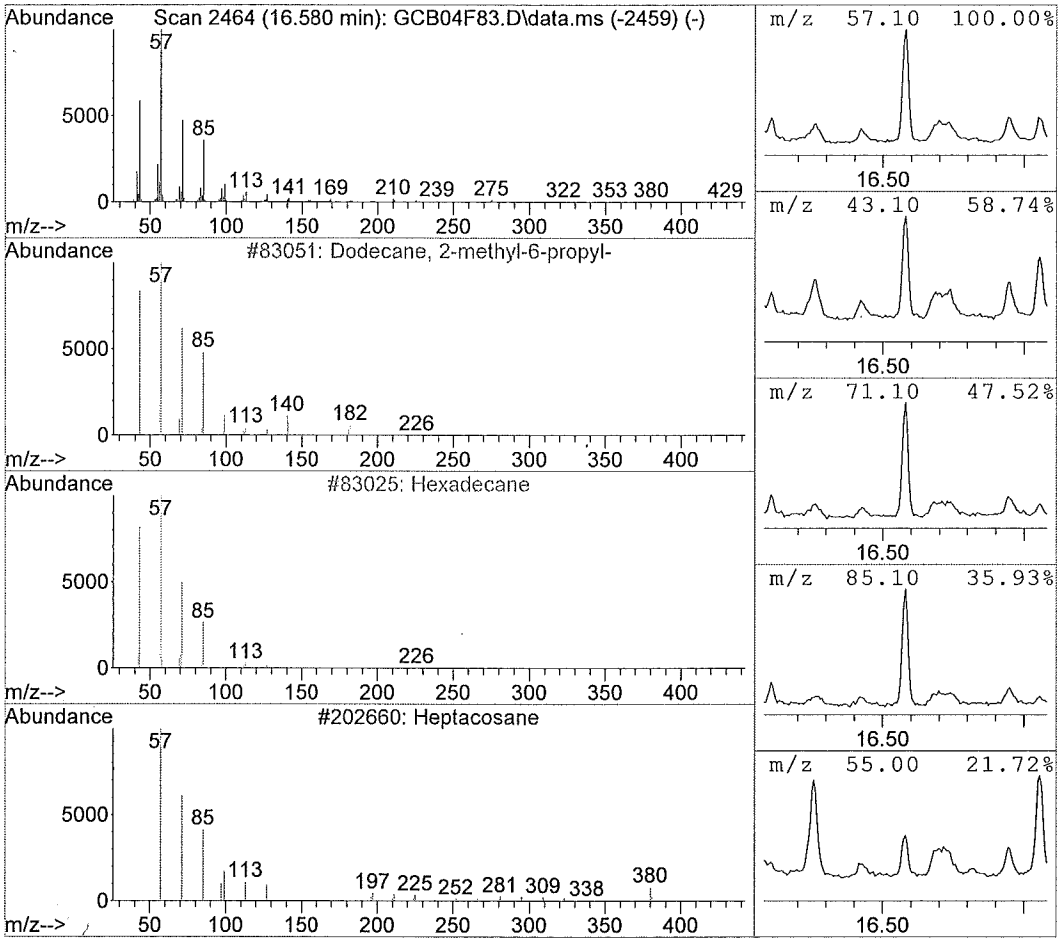


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB04F83.D Vial: 26
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.58	3.81 ug/ml	686138	Chrysene-d12	3599717

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane, 2-methyl-6-propyl- BA	83051	055045-08-4	93.00
2	Hexadecane	83025	000544-76-3	91.00
3	Heptacosane	202660	000593-49-7	90.00
4	Hexadecane, 5-butyl-	129495	006912-07-8	89.00
5	Tridecane, 2-methyl-	59889	001560-96-9	83.00



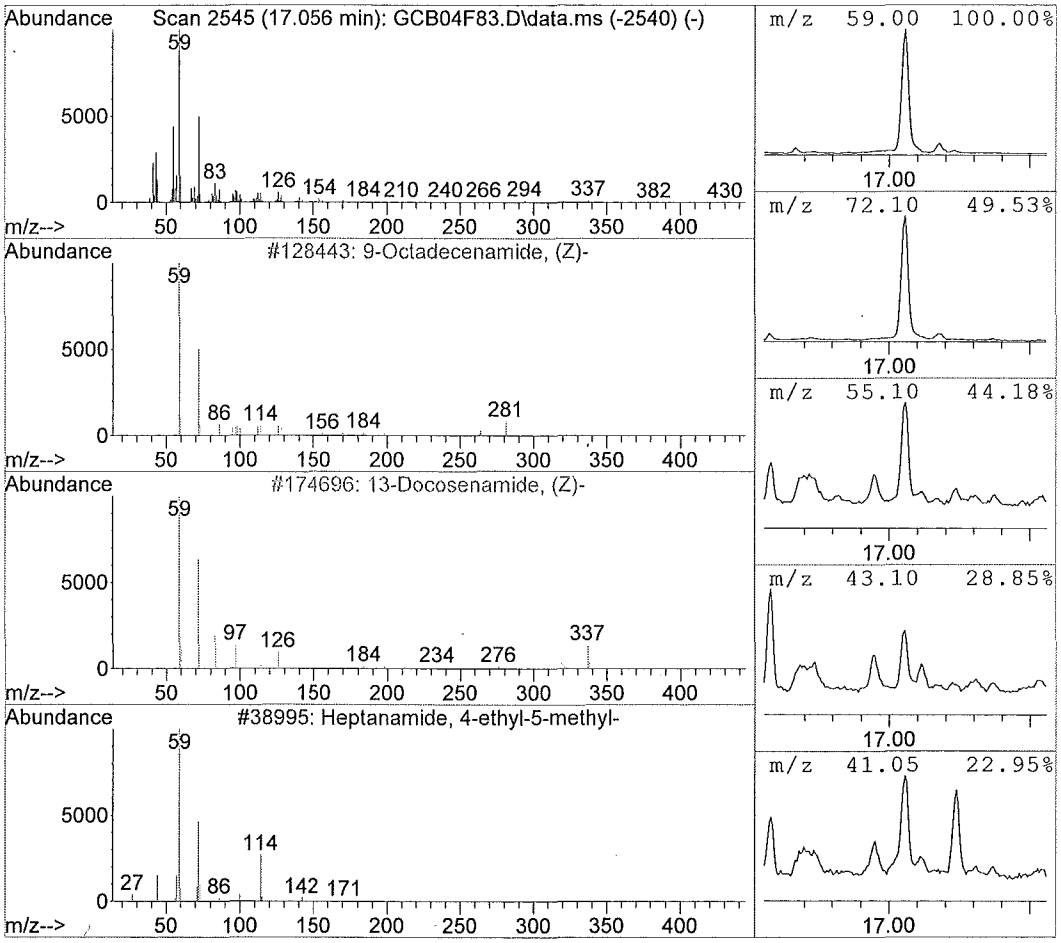
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB04F83.D Vial: 26
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.06	7.90 ug/ml	1058740	Perylene-d12	2680526

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	91.00
2	13-Docosenamide, (Z)-	174696	000112-84-5	87.00
3	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	64.00
4	Tetradecanamide	83608	000638-58-4	56.00
5	Octanamide	20317	000629-01-6	53.00

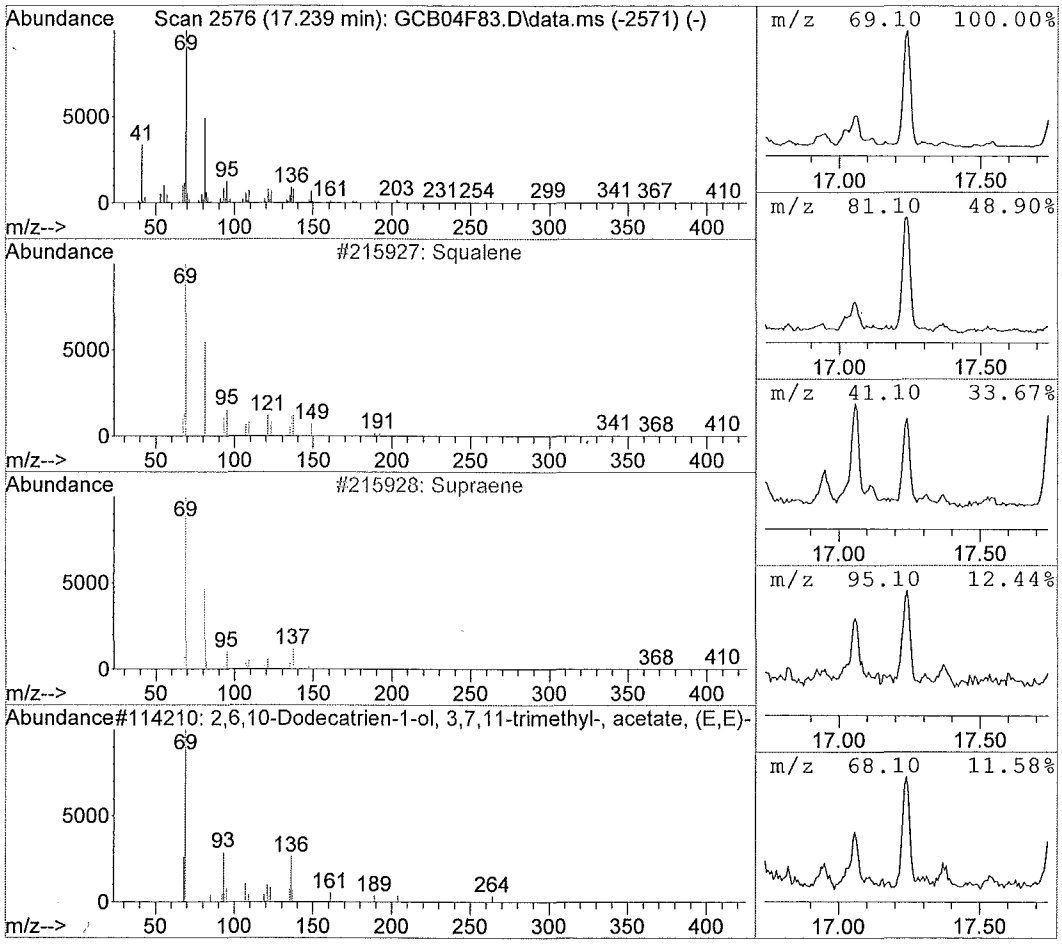


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB04F83.D Vial: 26
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.24	4.66 ug/ml	623960	Perylene-d12	2680526

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Squalene	215927	000111-02-4	94.00
2	Supraene	215928	007683-64-9	91.00
3	2,6,10-Dodecatrien-1-ol, 3,7,11-tri	114210	004128-17-0	72.00
4	2,6-Octadiene, 4-methyl-	10659	074498-94-5	53.00
5	1,5-Heptadiene, 3,4-dimethyl-	10686	1000061-77-9	50.00



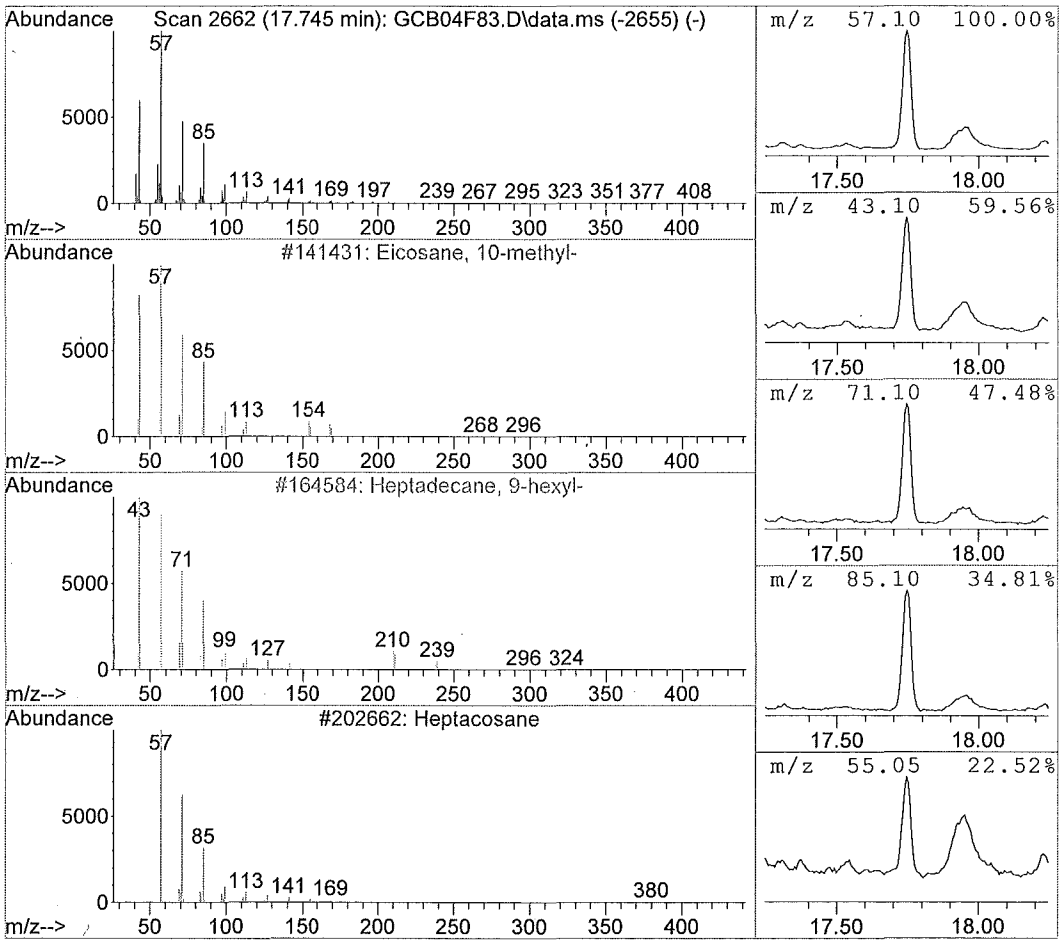
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB04F83.D Vial: 26
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.74	13.92 ug/ml	1865198	Perylene-d12	2680526

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane, 10-methyl-	141431	054833-23-7	91.00
2	Heptadecane, 9-hexyl-	164584	055124-79-3	91.00
3	Heptacosane	202662	000593-49-7	91.00
4	Hexacosane	194494	000630-01-3	91.00
5	Hexatriacontane	235973	000630-06-8	91.00

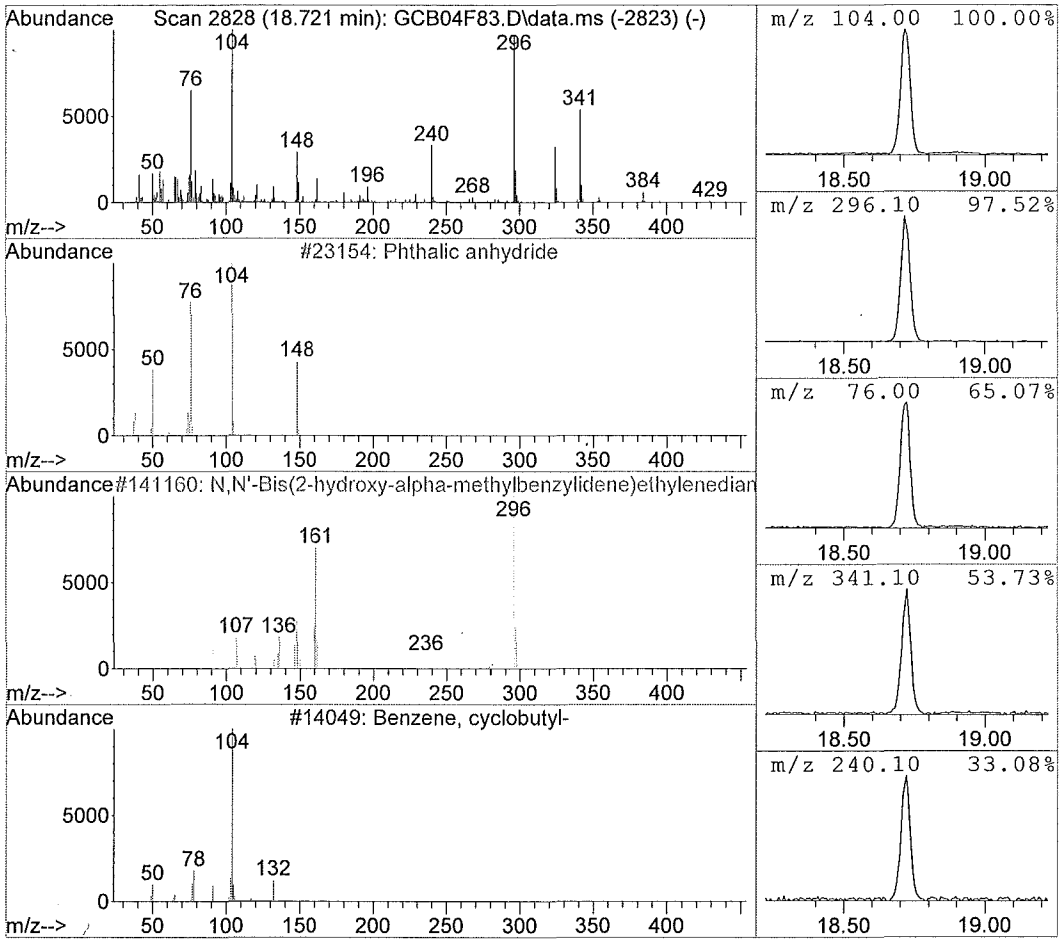


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB04F83.D Vial: 26
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.72	6.57 ug/ml	880763	Perylene-d12	2680526

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23154	000085-44-9	27.00
2	N,N'-Bis(2-hydroxy-alpha-methylbenz	141160	005464-60-8	18.00
3	Benzene, cyclobutyl-	14049	004392-30-7	11.00
4	Pyrazol-5(4H)-one, 4-(2-fluoropheny	140873	125910-81-8	11.00
5	Benzenemethanol, 2-methyl-, acetate	33428	017373-93-2	11.00



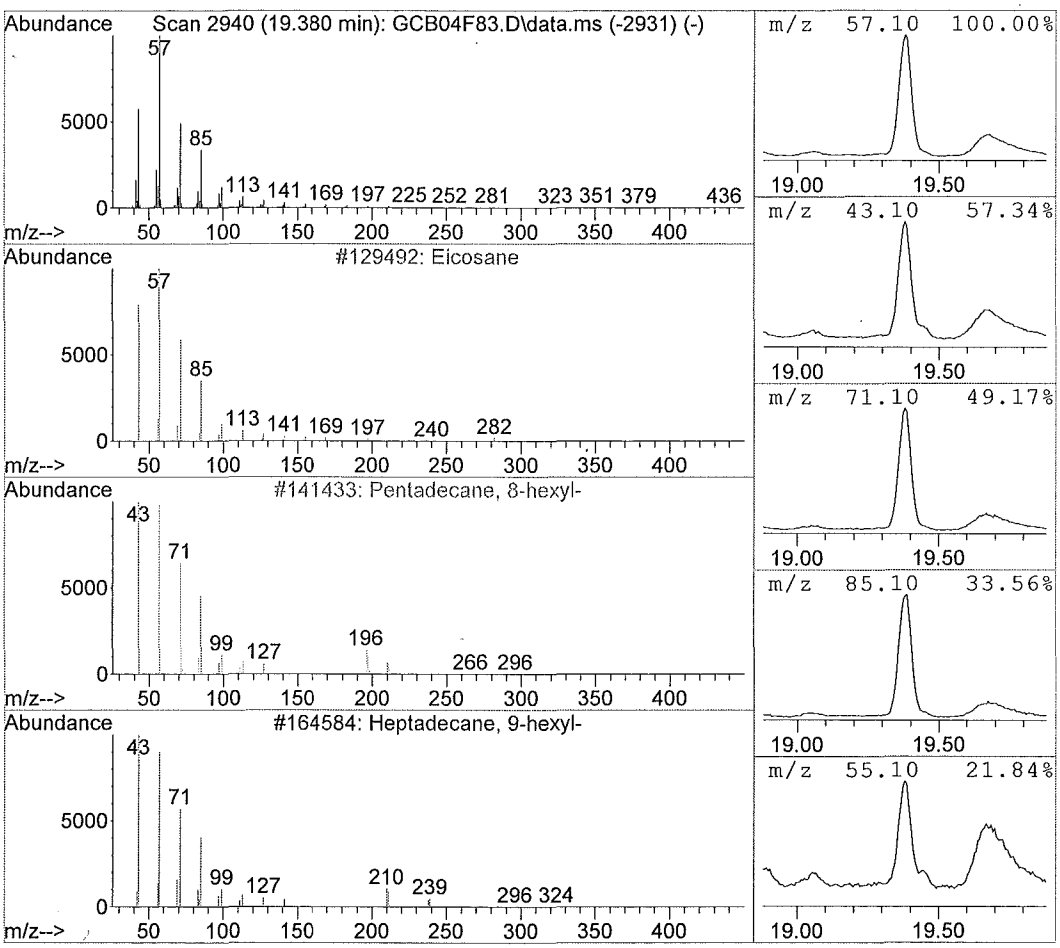
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB04F83.D Vial: 26
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.38	25.95 ug/ml	3478403	Perylene-d12	2680526

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane	129492	000112-95-8	94.00
2	Pentadecane, 8-hexyl-	141433	013475-75-7	93.00
3	Heptadecane, 9-hexyl-	164584	055124-79-3	93.00
4	Tridecane, 7-hexyl-	117640	007225-66-3	91.00
5	Octacosane	209566	000630-02-4	91.00

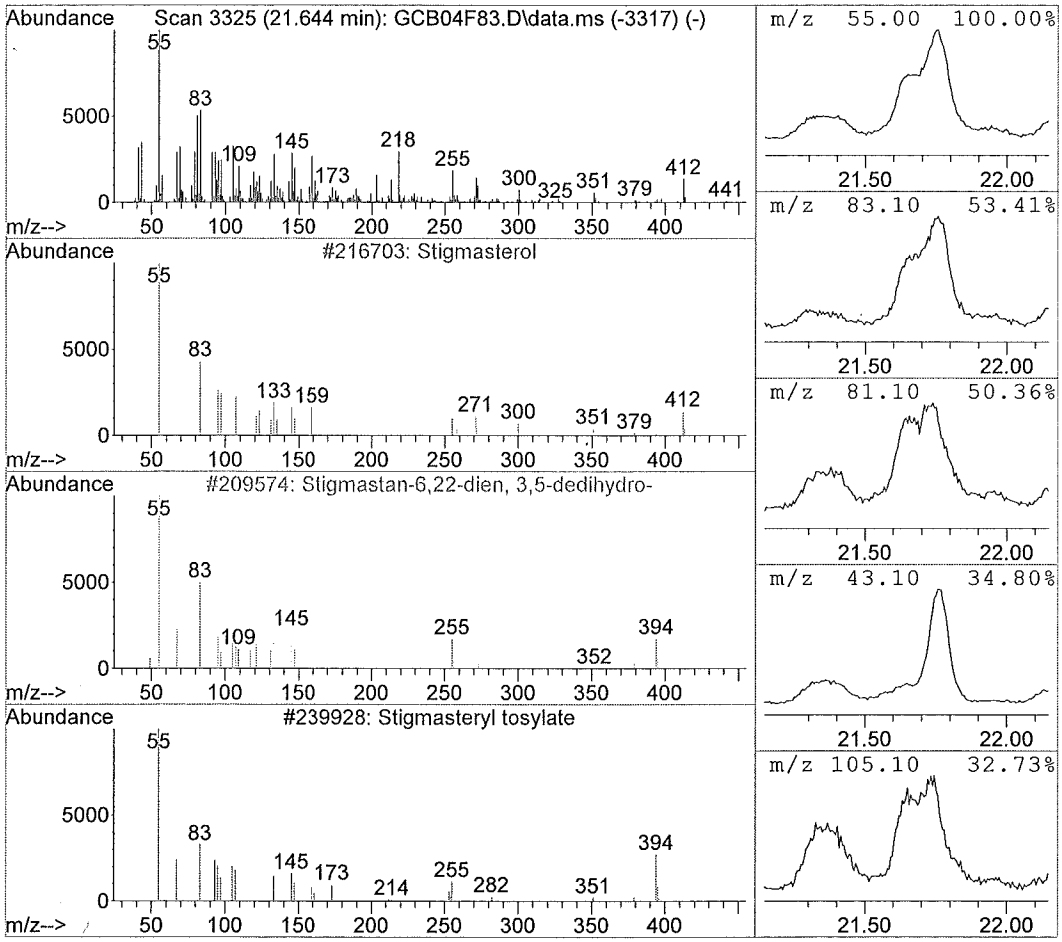


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB04F83.D Vial: 26
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.64	7.58 ug/ml	1015969	Perylene-d12	2680526

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmasterol	216703	000083-48-7	90.00
2	Stigmastan-6,22-dien, 3,5-dedihydro	209574	107304-12-1	64.00
3	Stigmasteryl tosylate	239928	053139-42-7	43.00
4	Cholesta-22,24-dien-5-ol, 4,4-dimet	216714	1000128-66-1	25.00
5	Gorgostane, (5.alpha.)-	216743	056143-37-4	14.00



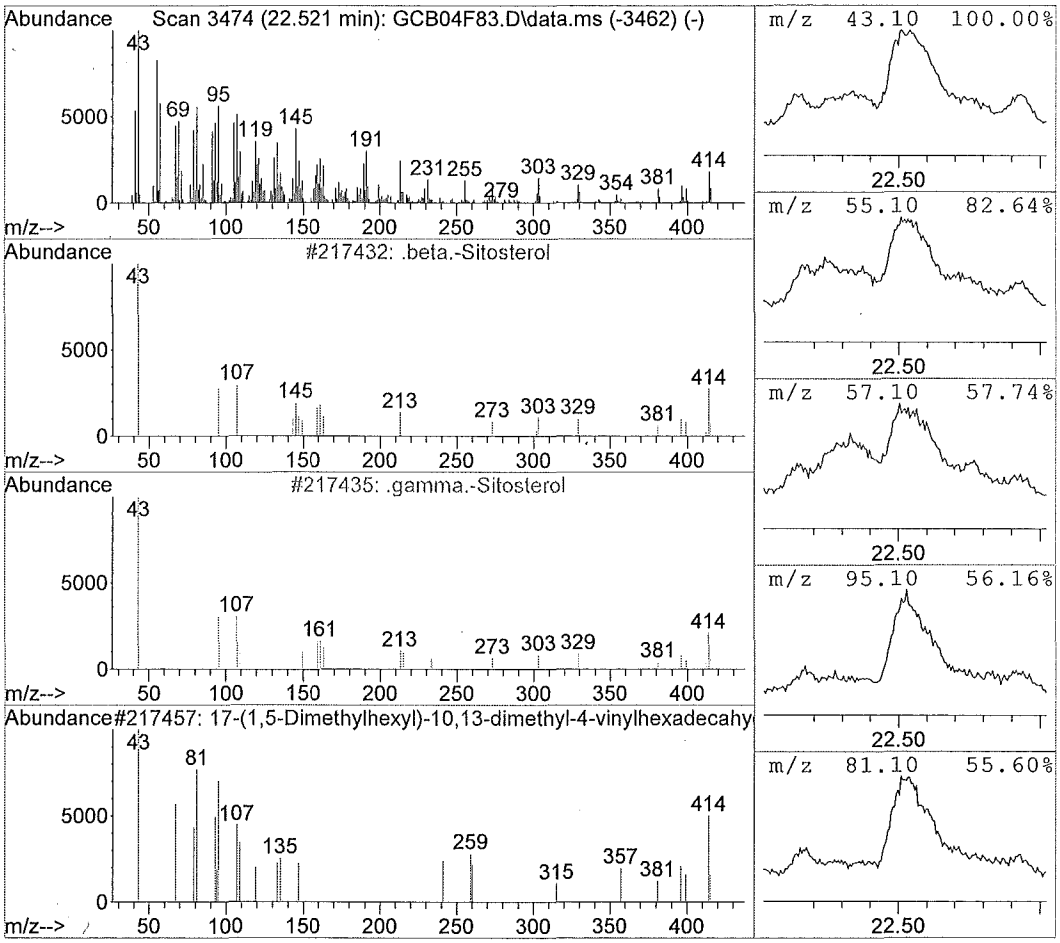
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB04F83.D Vial: 26
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.52	29.84 ug/ml	3999405	Perylene-d12	2680526

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	.beta.-Sitosterol	217432	000083-46-5	93.00
2	.gamma.-Sitosterol	217435	000083-47-6	76.00
3	17-(1,5-Dimethylhexyl)-10,13-dimeth	217457	1000210-86-9	59.00
4	Ergost-7-en-3-ol, (3.beta.)-	212395	026047-31-4	50.00
5	Campesterol	212386	000474-62-4	50.00

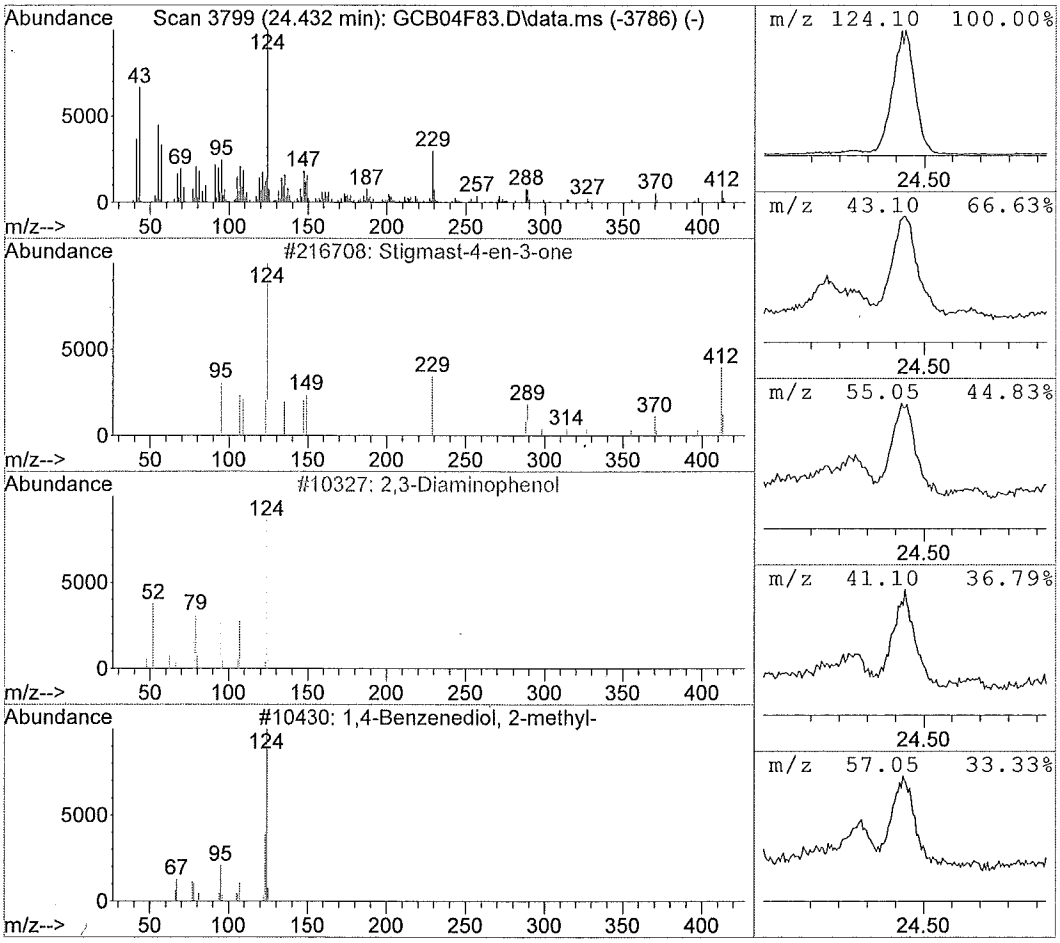


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB04F83.D Vial: 26
Acq On : 06/23/2015 18:44 Operator: TJM
Sample : 1515725003 F9M83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.43	20.42 ug/ml	2737463	Perylene-d12	2680526

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmast-4-en-3-one	216708	001058-61-3	96.00
2	2,3-Diaminophenol	10327	059649-56-8	53.00
3	1,4-Benzenediol, 2-methyl-	10430	000095-71-6	52.00
4	Orcinol	10403	000504-15-4	50.00
5	Androst-4-en-3-one, 17-hydroxy-, (1	134675	000604-39-7	50.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M84

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725004

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCB05F84

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/23/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	210	U
108-95-2	Phenol	210	U
111-44-4	Bis(2-chloroethyl)ether	210	U
95-57-8	2-Chlorophenol	210	U
95-48-7	2-Methylphenol	210	U
108-60-1	2,2'-Oxybis(1-chloropropane)	210	U
98-86-2	Acetophenone	210	U
106-44-5	4-Methylphenol	210	U
621-64-7	N-Nitroso-di-n-propylamine	210	U
67-72-1	Hexachloroethane	210	U
98-95-3	Nitrobenzene	210	U
78-59-1	Isophorone	210	U
88-75-5	2-Nitrophenol	210	U
105-67-9	2,4-Dimethylphenol	210	U
111-91-1	Bis(2-chloroethoxy)methane	210	U
120-83-2	2,4-Dichlorophenol	210	U
91-20-3	Naphthalene	210	U
106-47-8	4-Chloroaniline	210	U
87-68-3	Hexachlorobutadiene	210	U
105-60-2	Caprolactam	210	U
59-50-7	4-Chloro-3-methylphenol	210	U
91-57-6	2-Methylnaphthalene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U
92-52-4	1,1'-Biphenyl	210	U
91-58-7	2-Chloronaphthalene	210	U
88-74-4	2-Nitroaniline	410	U
131-11-3	Dimethylphthalate	210	U
606-20-2	2,6-Dinitrotoluene	210	U
208-96-8	Acenaphthylene	210	U
99-09-2	3-Nitroaniline	410	U
83-32-9	Acenaphthene	210	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M84

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725004

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCB05F84

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/23/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	410	U
100-02-7	4-Nitrophenol	410	U
132-64-9	Dibenzofuran	210	U
121-14-2	2,4-Dinitrotoluene	210	U
84-66-2	Diethylphthalate	210	U
86-73-7	Fluorene	210	U
7005-72-3	4-Chlorophenyl-phenylether	210	U
100-01-6	4-Nitroaniline	410	U
534-52-1	4,6-Dinitro-2-methylphenol	410	U
86-30-6	N-Nitrosodiphenylamine[1]	210	U
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U
101-55-3	4-Bromophenyl-phenylether	210	U
118-74-1	Hexachlorobenzene	210	U
1912-24-9	Atrazine	210	U
87-86-5	Pentachlorophenol	410	U
85-01-8	Phenanthrene	210	U
120-12-7	Anthracene	210	U
86-74-8	Carbazole	210	U
84-74-2	Di-n-butylphthalate	210	U
206-44-0	Fluoranthene	30.	J
129-00-0	Pyrene	25.	J
85-68-7	Butylbenzylphthalate	210	U
91-94-1	3,3'-Dichlorobenzidine	210	U
56-55-3	Benzo(a)anthracene	210	U
218-01-9	Chrysene	18.	J
117-81-7	Bis(2-ethylhexyl)phthalate	370	
117-84-0	Di-n-octylphthalate	210	U
205-99-2	Benzo(b)fluoranthene	23.	J
207-08-9	Benzo(k)fluoranthene	210	U
50-32-8	Benzo(a)pyrene	210	U
193-39-5	Indeno(1,2,3-cd)pyrene	210	U
53-70-3	Dibenzo(a,h)anthracene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
58-90-2	2,3,4,6-Tetrachlorophenol	210	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M84

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725004
Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCB05F84
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 21. Decanted: (Y/N) N Date Received: 06/05/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/23/2015
GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	814-78-8	3-Buten-2-one, 3-methyl-	2.23	260	JN
02		Unknown Furan, tetrahydro-2-(methoxymethyl)-	2.32	280	J
03		Unknown 2-Pentanone, 4-hydroxy-	3.34	180	JB
04		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.54	6400	JB
05		Unknown Hexane, 2-iodo-	4.23	720	J
06		Unknown 1H-Pyrrole-2,5-dione	4.32	800	J
07		Unknown Ethanol, 2-(2-ethoxyethoxy)-	4.73	190	J
08		Unknown 5H-1,4-Dioxepin, 2,3-dihydro-5-methyl-	5.02	190	J
09		Unknown 1,2,3-Propanetriol, 1-acetate	5.15	1500	J
10	112-39-0	Hexadecanoic acid, methyl ester	12.47	200	JN
11	57-10-3	n-Hexadecanoic acid	12.72	260	JN
12		Unknown Dodecanamide	12.83	240	J
13	2319-29-1	Decanamide-	14.21	790	JN
14	301-02-0	9-Octadecenamide, (Z)-	15.15	7900	JNB
15	629-54-9	Hexadecanamide	15.23	320	JNB
16	301-02-0	9-Octadecenamide, (Z)-	16.01	170	JN
17		Unknown Heptanamide, 4-ethyl-5-methyl-	17.06	830	J
18		Unknown 1-Octadecene	18.23	160	J
19		Unknown Phthalic anhydride	18.72	510	J
20		Unknown Silane, diethyldecyloxyundecyloxy-	23.50	460	J
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	3600	J

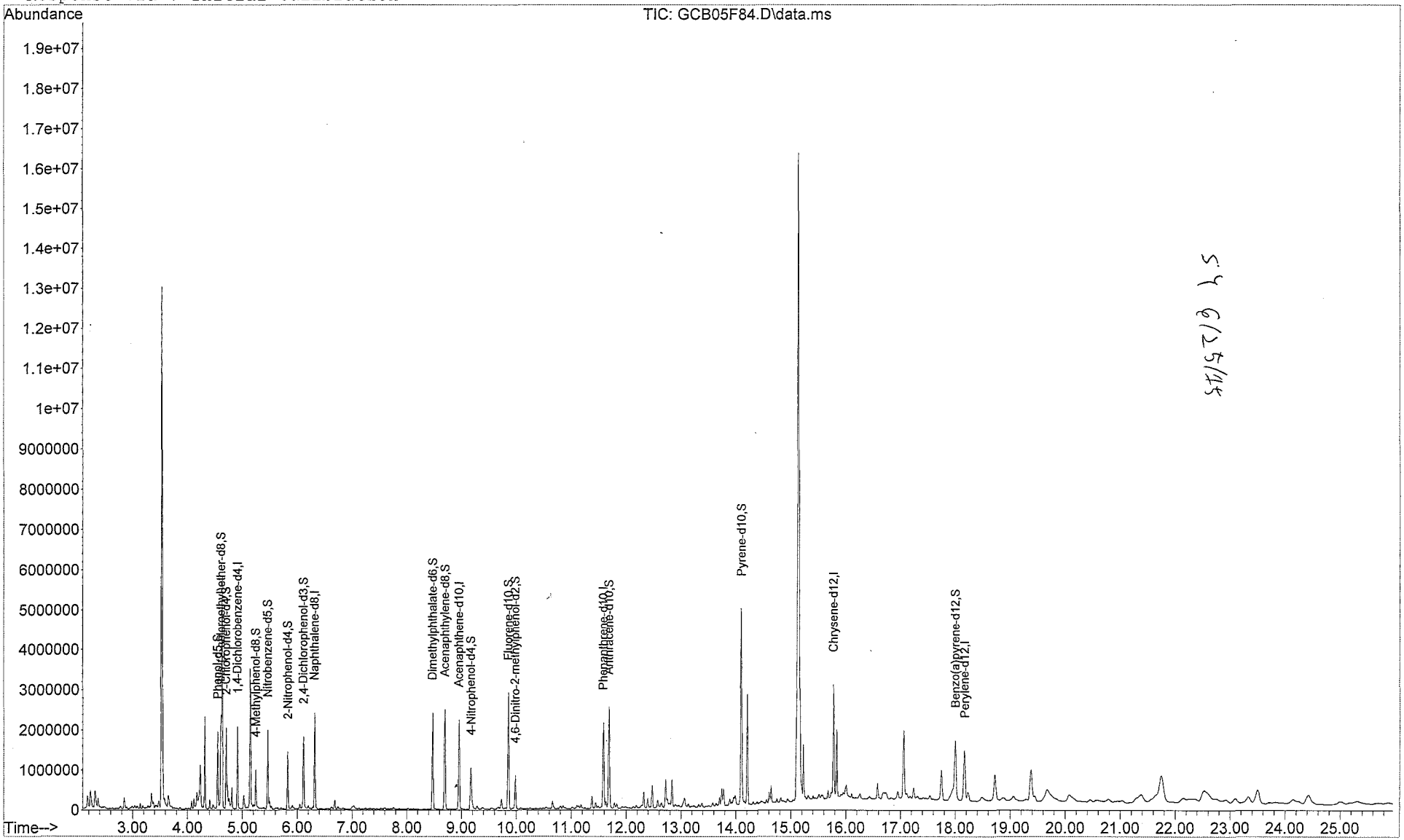
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB05F84.D Vial: 27
Acq On : 06/23/2015 19:18 Operator: TJM
Sample : 1515725004 F9M84 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 24 13:36:25 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration



GCB05F84.D GSOM01D6.M Wed Jun 24 13:43:36 2015 Page 3

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB05F84.D Vial: 27
Acq On : 06/23/2015 19:18 Operator: TJM
Sample : 1515725004 F9M84 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 05:20:43 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.91	152	318007	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1220810	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	707085	20.00 ug/ml
59) Phenanthrene-d10	11.59	188	1198673	20.00 ug/ml
73) Chrysene-d12	15.78	240	1188209	20.00 ug/ml
81) Perylene-d12	18.17	264	939520	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.55	99	641599	23.184ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	429214	19.902ug/mL
7) 2-Chlorophenol-d4	4.70	132	511476	21.890ug/ml
13) 4-Methylphenol-d8	5.25	113	204594	11.053ug/mL
17) Nitrobenzene-d5	5.46	128	242753	22.635ug/ml
21) 2-Nitrophenol-d4	5.83	143	263563	23.251ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	420548	23.825ug/mL
28) 4-Chloroaniline-d4	6.42	131	1566	0.081ug/mL
42) Dimethylphthalate-d6	8.47	166	1263041	28.486ug/mL
45) Acenaphthylene-d8	8.70	160	1540137	25.560ug/mL
50) 4-Nitrophenol-d4	9.17	143	261322	28.890ug/mL
57) Fluorene-d10	9.86	176	1092613	28.855ug/mL
61) 4,6-Dinitro-2-methylphenol	9.98	200	139479	16.394ug/mL
69) Anthracene-d10	11.69	188	1503565	23.654ug/mL
75) Pyrene-d10	14.10	212	1640319	27.663ug/mL
86) Benzo(a)pyrene-d12	18.00	264	1048547	23.291ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

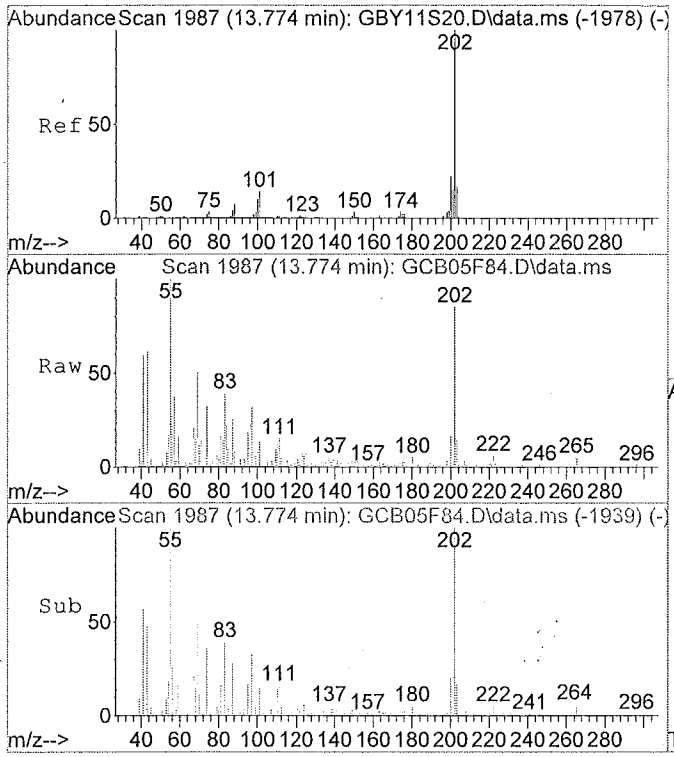
Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB05F84.D Vial: 27
Acq On : 06/23/2015 19:18 Operator: TJM
Sample : 1515725004 F9M84 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 05:20:43 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	0.00	152		Not Detected	
46)	3-Nitroaniline	0.00	138		Not Detected	
47)	Acenaphthene	0.00	153		Not Detected	
48)	2,4-Dinitrophenol	0.00	184		Not Detected	
49)	4-Nitrophenol	0.00	109		Not Detected	
51)	Dibenzofuran	0.00	168		Not Detected	
52)	2,4-Dinitrotoluene	0.00	165		Not Detected	
53)	2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54)	Diethylphthalate	0.00	149		Not Detected	
55)	4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56)	Fluorene	0.00	166		Not Detected	
58)	4-Nitroaniline	0.00	138		Not Detected	
60)	4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62)	N-Nitrosodiphenylamine	0.00	169		Not Detected	
63)	4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64)	Hexachlorobenzene	0.00	284		Not Detected	
65)	Atrazine	0.00	200		Not Detected	
66)	Pentachlorophenol	0.00	266		Not Detected	
67)	Phenanthrene	0.00	178		Not Detected	
68)	Anthracene	0.00	178		Not Detected	
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	13.77	202	51153	0.726ug/ml	95
74)	Pyrene	14.12	202	45846	0.606ug/ml	1
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	0.00	228		Not Detected	
79)	Chrysene	15.81	228	27623	0.424ug/ml	96
80)	Bis-(2-ethylhexyl)phthalat	15.84	149	516851	8.796ug/ml	97
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	17.42	252	32557	0.553ug/ml	95
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	0.00	252		Not Detected	
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

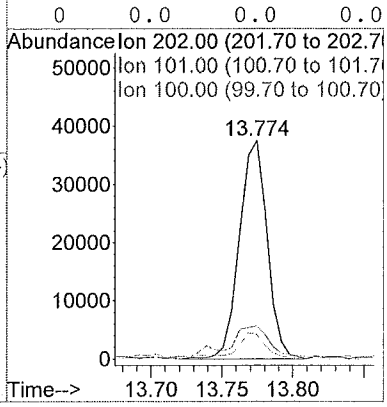
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

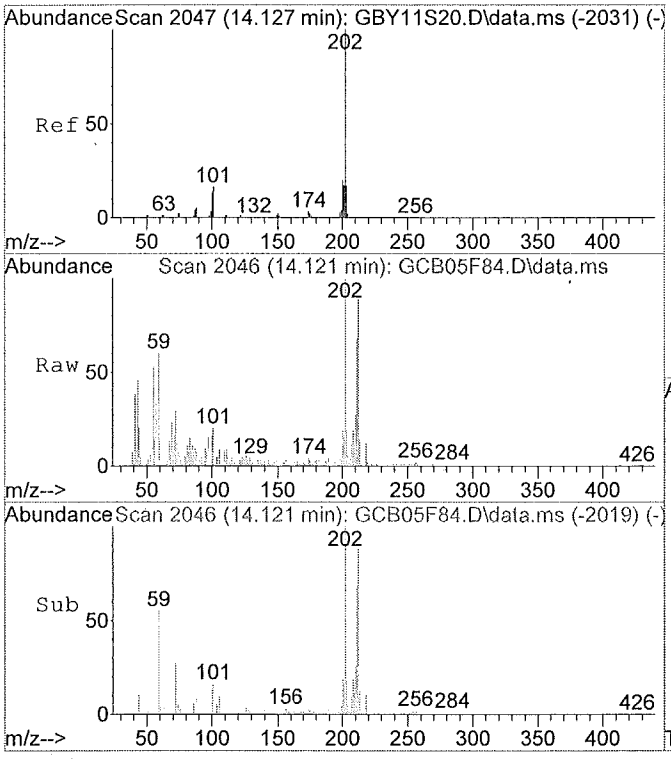


#72
Fluoranthene
Concen: 0.73 ug/ml
RT: 13.77 min Scan# 1987
Delta R.T. -0.01 min
Lab File: GCB05F84.D
Acq: 06/23/2015 19:18

Tgt Ion:202 Resp: 51153

Ion	Ratio	Lower	Upper
202	100		
101	16.2	10.5	19.5
100	13.3	7.4	13.8
0	0.0	0.0	0.0

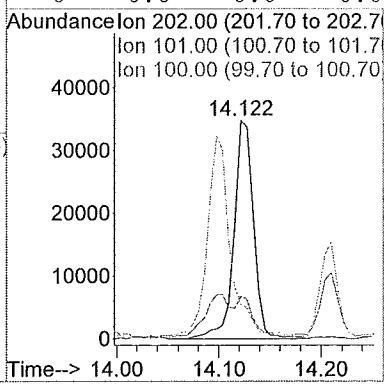


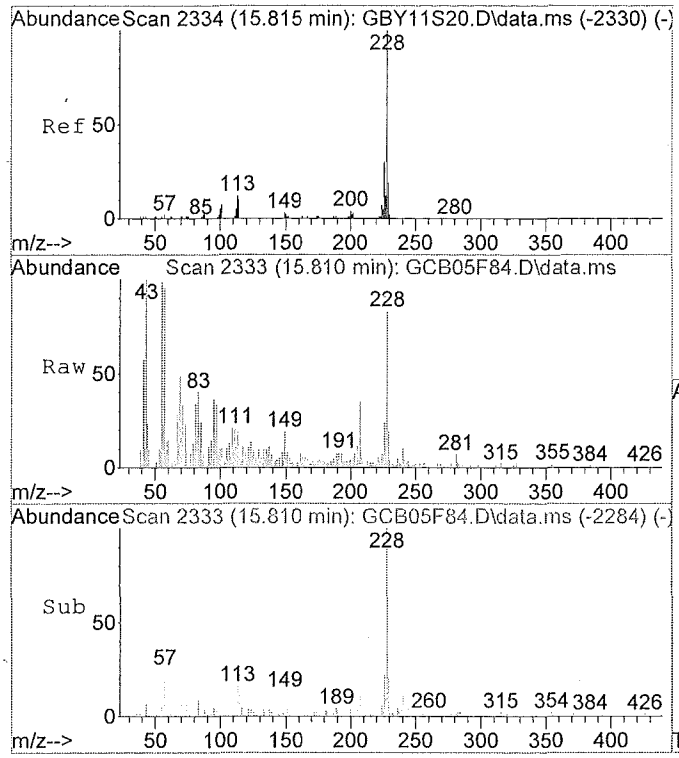


#74
Pyrene
Concen: 0.61 ug/ml
RT: 14.12 min Scan# 2046
Delta R.T. -0.01 min
Lab File: GCB05F84.D
Acq: 06/23/2015 19:18

Tgt Ion:202 Resp: 45846

Ion	Ratio	Lower	Upper
202	100		
101	27.7	12.2	22.7#
100	111.7	10.1	18.7#
0	0.0	0.0	0.0

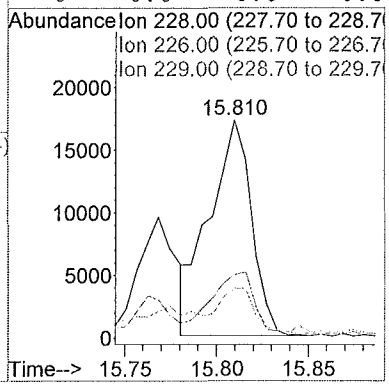


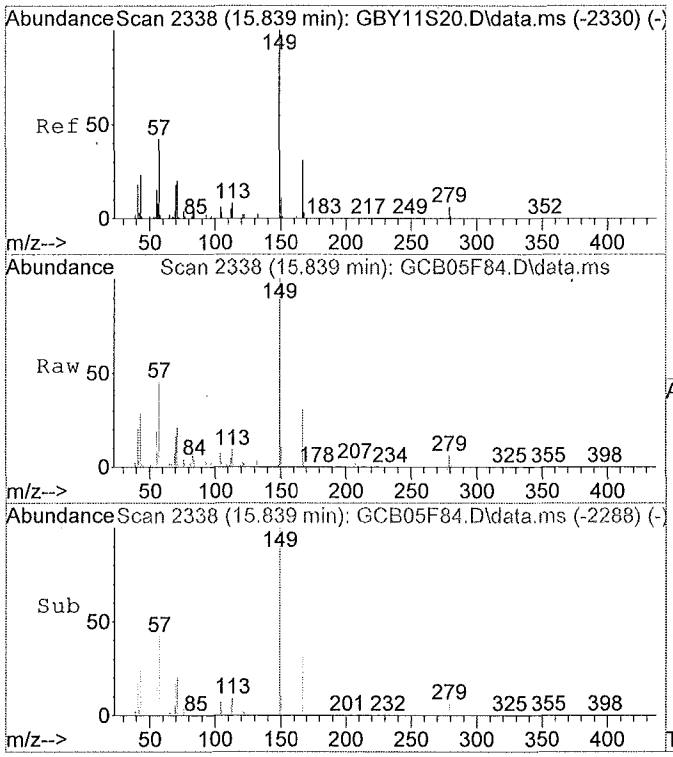


#79
Chrysene
Concen: 0.42 ug/ml
RT: 15.81 min Scan# 2333
Delta R.T. -0.01 min
Lab File: GCB05F84.D
Acq: 06/23/2015 19:18

Tgt Ion:228 Resp: 27623

Ion	Ratio	Lower	Upper
228	100		
226	30.4	20.1	37.3
229	17.3	13.7	25.5
0	0.0	0.0	0.0

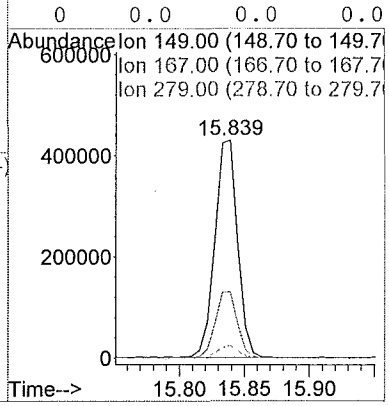


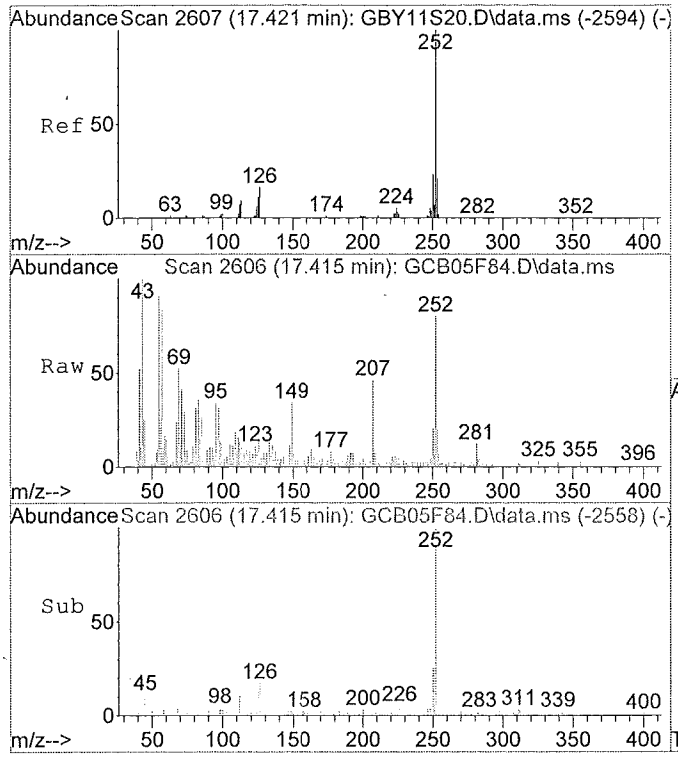


#80
Bis-(2-ethylhexyl)phthalate
Concen: 8.80 ug/ml
RT: 15.84 min Scan# 2338
Delta R.T. -0.01 min
Lab File: GCB05F84.D
Acq: 06/23/2015 19:18

Tgt Ion:149 Resp: 516851

Ion	Ratio	Lower	Upper
149	100		
167	30.2	22.0	40.8
279	5.6	5.0	9.2
0	0.0	0.0	0.0

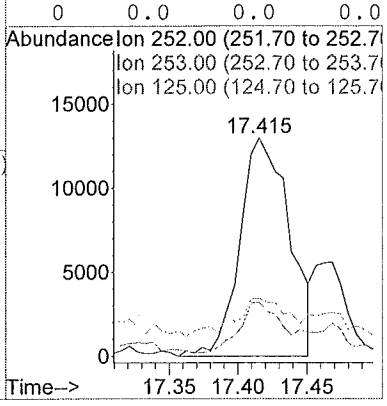




#83
Benzo(b)fluoranthene
Concen: 0.55 ug/ml
RT: 17.42 min Scan# 2606
Delta R.T. -0.01 min
Lab File: GCB05F84.D
Acq: 06/23/2015 19:18

Tgt Ion:252 Resp: 32557

Ion	Ratio	Lower	Upper
252	100		
253	19.9	15.1	28.1
125	18.1	10.6	19.8
0	0.0	0.0	0.0



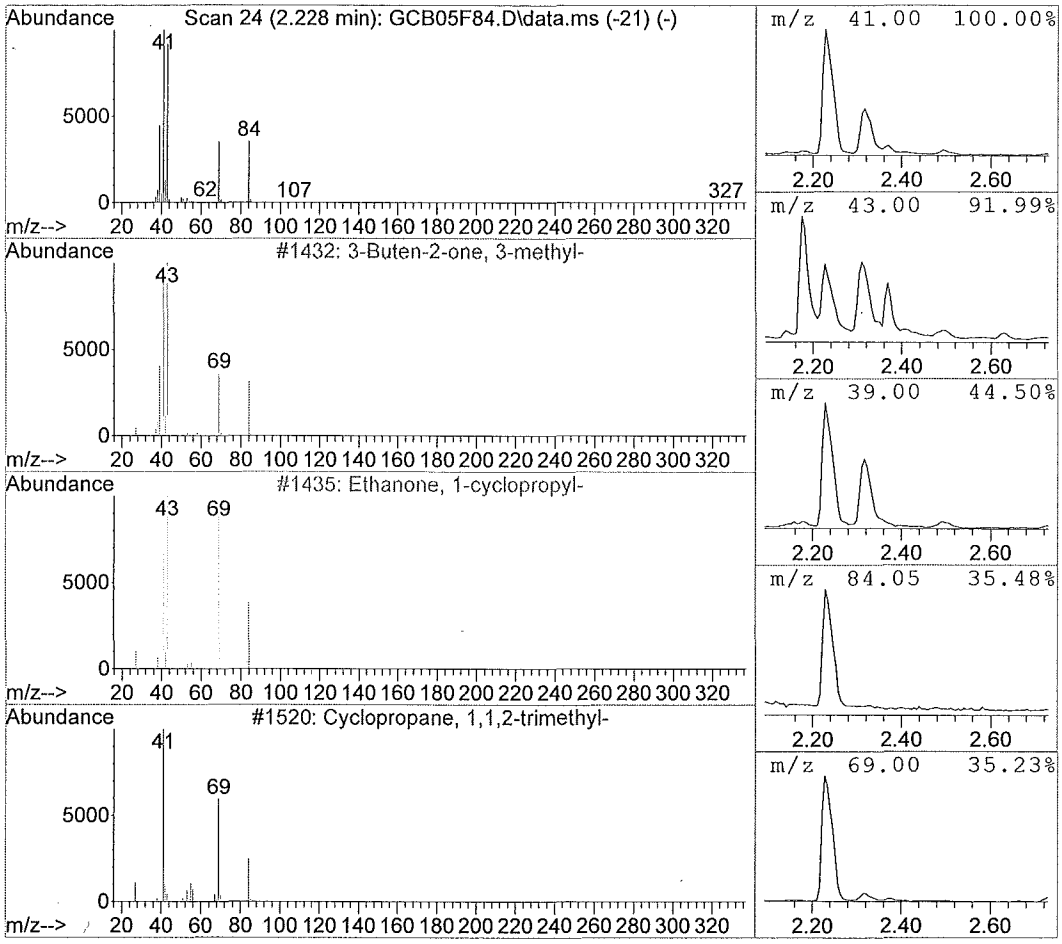
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB05F84.D Vial: 27
Acq On : 06/23/2015 19:18 Operator: TJM
Sample : 1515725004 F9M84 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.23	6.11 ug/ml	674100	1,4-Dichlorobenzene-d4	2206218

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Buten-2-one, 3-methyl-	1432	000814-78-8	91.00
2	Ethanone, 1-cyclopropyl-	1435	000765-43-5	46.00
3	Cyclopropane, 1,1,2-trimethyl-	1520	004127-45-1	38.00
4	Dicyclopropyl carbinol	6505	014300-33-5	33.00
5	2-Butanone, 4-hydroxy-3-(hydroxymet	14338	006868-97-9	25.00

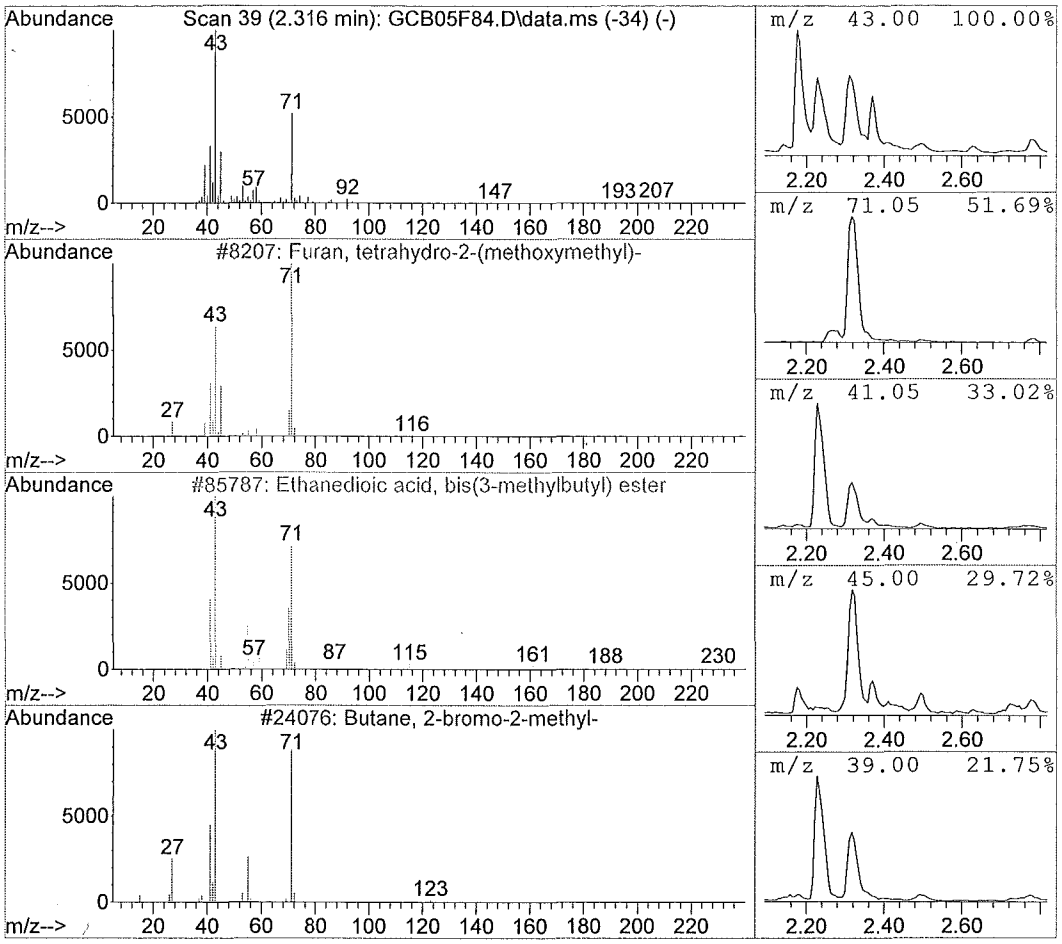


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB05F84.D Vial: 27
Acq On : 06/23/2015 19:18 Operator: TJM
Sample : 1515725004 F9M84 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.32	6.73 ug/ml	742663	1,4-Dichlorobenzene-d4	2206218

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Furan, tetrahydro-2-(methoxymethyl)	8207	019354-27-9	53.00
2	Ethanedioic acid, bis(3-methylbutyl	85787	002051-00-5	50.00
3	Butane, 2-bromo-2-methyl-	24076	000507-36-8	50.00
4	Pentane, 3-bromo-	24065	001809-10-5	47.00
5	2-Oxovaleric acid, methyl ester	13262	1000353-27-4	47.00



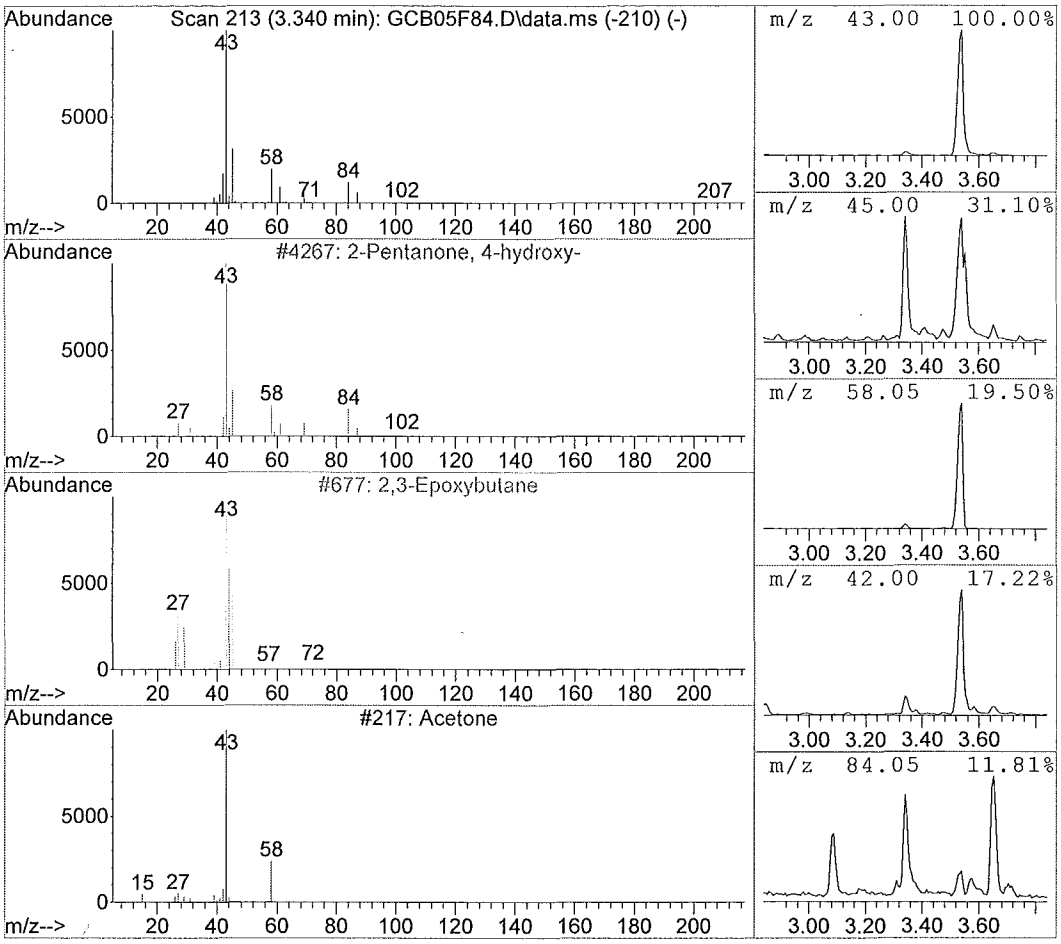
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB05F84.D Vial: 27
Acq On : 06/23/2015 19:18 Operator: TJM
Sample : 1515725004 F9M84 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.34	4.38 ug/ml	483621	1,4-Dichlorobenzene-d4	2206218

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	45.00
2	2,3-Epoxybutane	677	003266-23-7	12.00
3	Acetone	217	000067-64-1	9.00
4	2,4-Diacetoxypentane	52047	007371-86-0	9.00
5	Thioacetic acid	913	000507-09-5	9.00



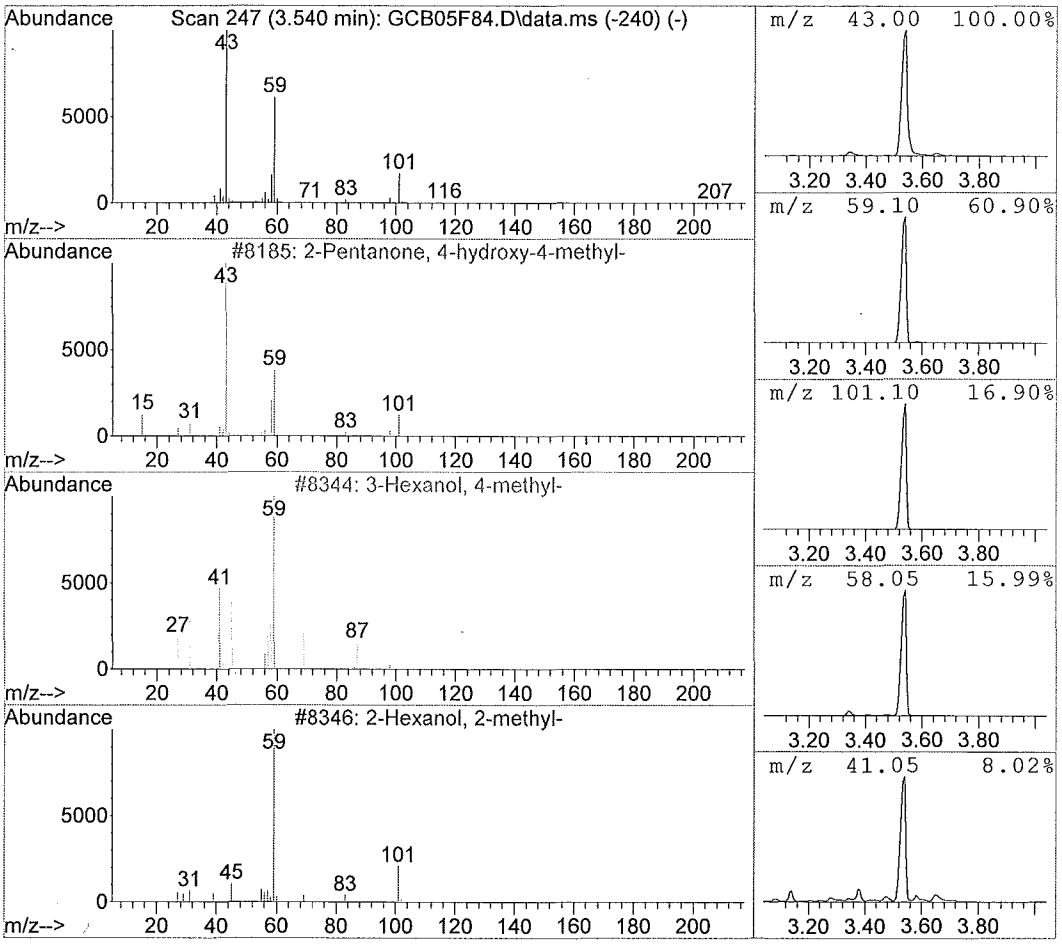
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB05F84.D Vial: 27
Acq On : 06/23/2015 19:18 Operator: TJM
Sample : 1515725004 F9M84 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.54	152.65 ug/ml	16838664	1,4-Dichlorobenzene-d4	2206218

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	42.00
2	3-Hexanol, 4-methyl-	8344	000615-29-2	33.00
3	2-Hexanol, 2-methyl-	8346	000625-23-0	28.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	23.00
5	Acetone	217	000067-64-1	9.00



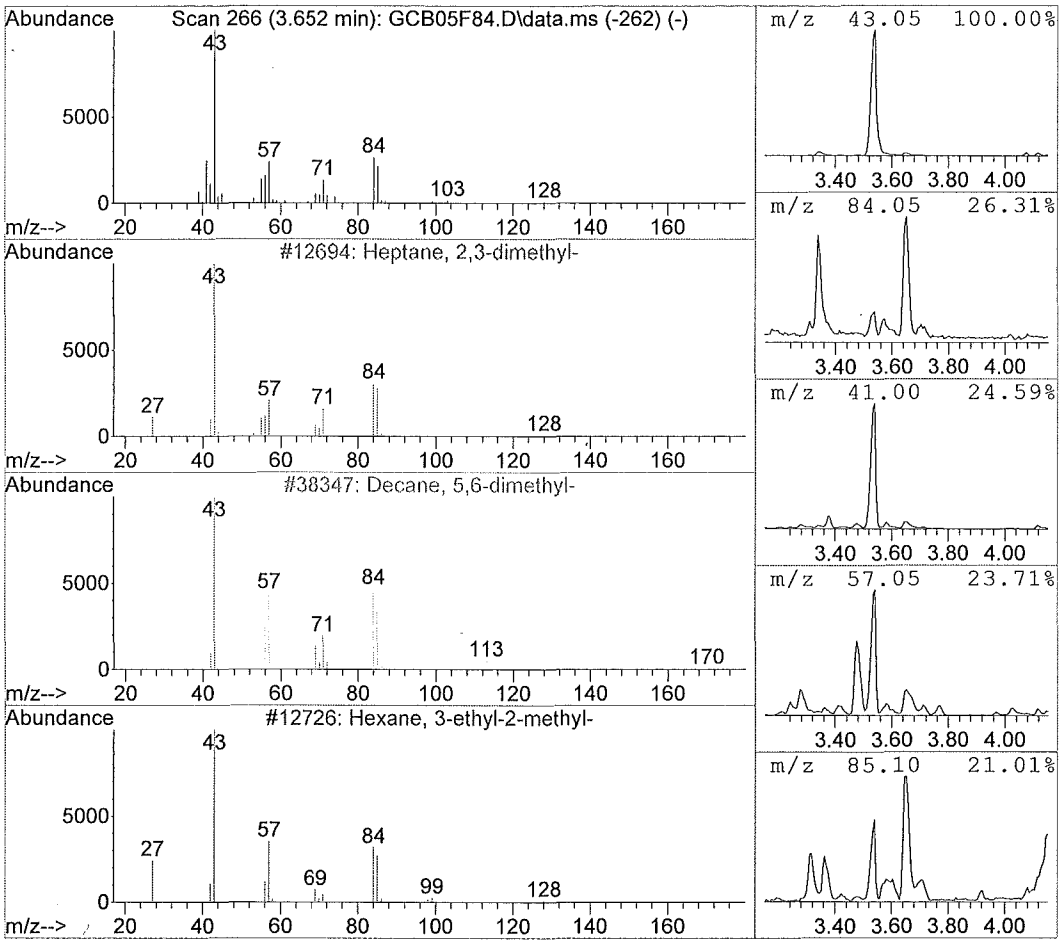
Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB05F84.D Vial: 27
Acq On : 06/23/2015 19:18 Operator: TJM
Sample : 1515725004 F9M84 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.65	3.80 ug/ml	419122	1,4-Dichlorobenzene-d4	2206218

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12694	003074-71-3	87.00
2	Decane, 5,6-dimethyl-	38347	001636-43-7	78.00
3	Hexane, 3-ethyl-2-methyl-	12726	016789-46-1	74.00
4	Octane	7619	000111-65-9	53.00
5	Hexane, 3-ethyl-	7621	000619-99-8	53.00

13A

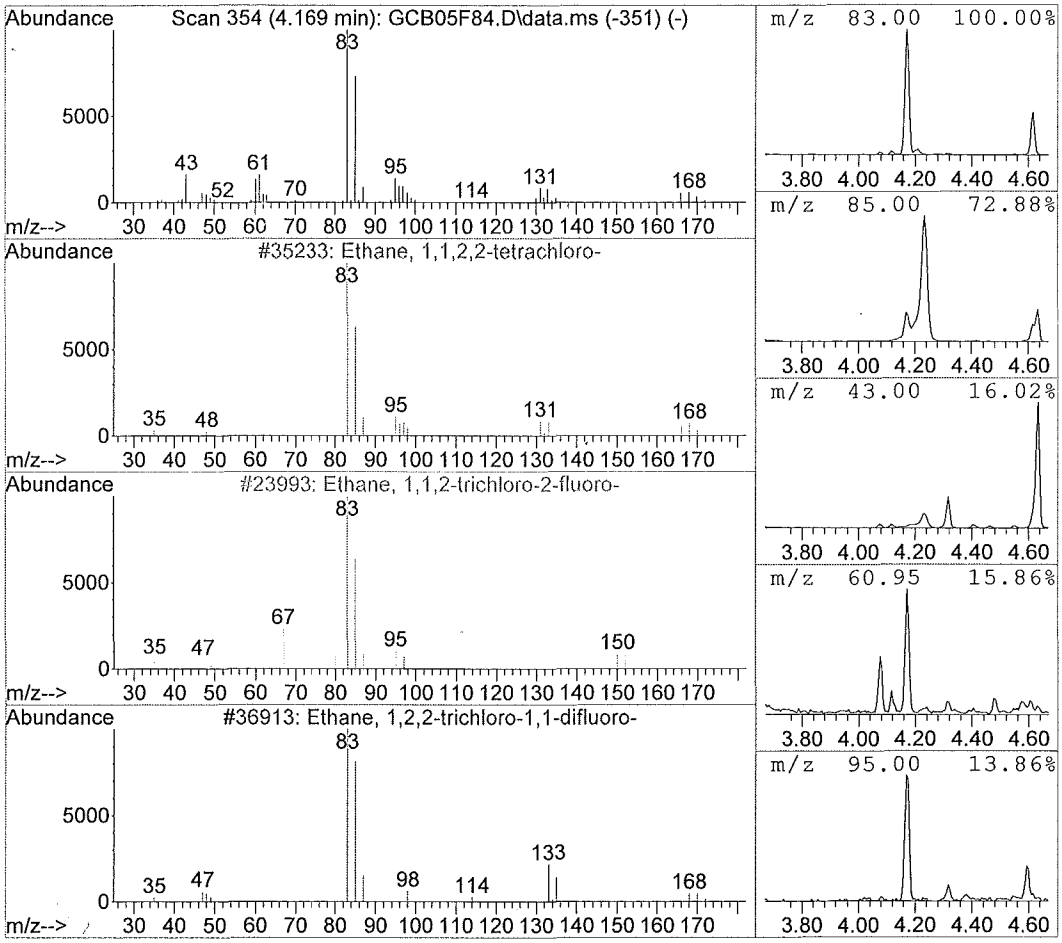


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB05F84.D Vial: 27
Acq On : 06/23/2015 19:18 Operator: TJM
Sample : 1515725004 F9M84 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.17	5.68 ug/ml	626623	1,4-Dichlorobenzene-d4	2206218

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro- VOA	35233	000079-34-5	94.00
2	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	59.00
3	Ethane, 1,2,2-trichloro-1,1-difluor	36913	000354-21-2	43.00
4	Ethane, 2,2-dichloro-1,1,1-trifluor	25465	000306-83-2	42.00
5	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	42.00

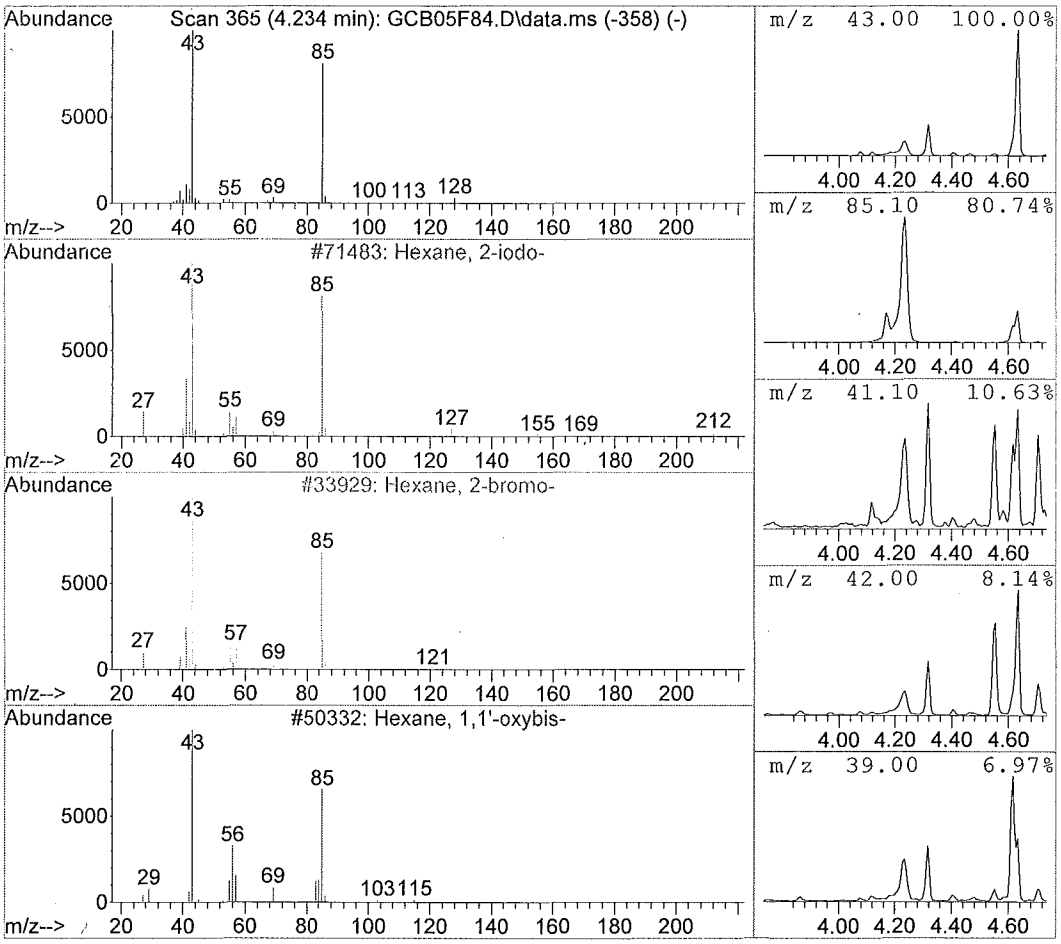


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB05F84.D Vial: 27
Acq On : 06/23/2015 19:18 Operator: TJM
Sample : 1515725004 F9M84 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.23	17.24 ug/ml	1901758	1,4-Dichlorobenzene-d4	2206218

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2-iodo-	71483	018589-27-0	56.00
2	Hexane, 2-bromo-	33929	003377-86-4	56.00
3	Hexane, 1,1'-oxybis-	50332	000112-58-3	40.00
4	2(3H)-Furanone, 5-acetyldihydro-	12130	029393-32-6	39.00
5	4-Methoxy-3-buten-2-one	3689	004652-27-1	36.00



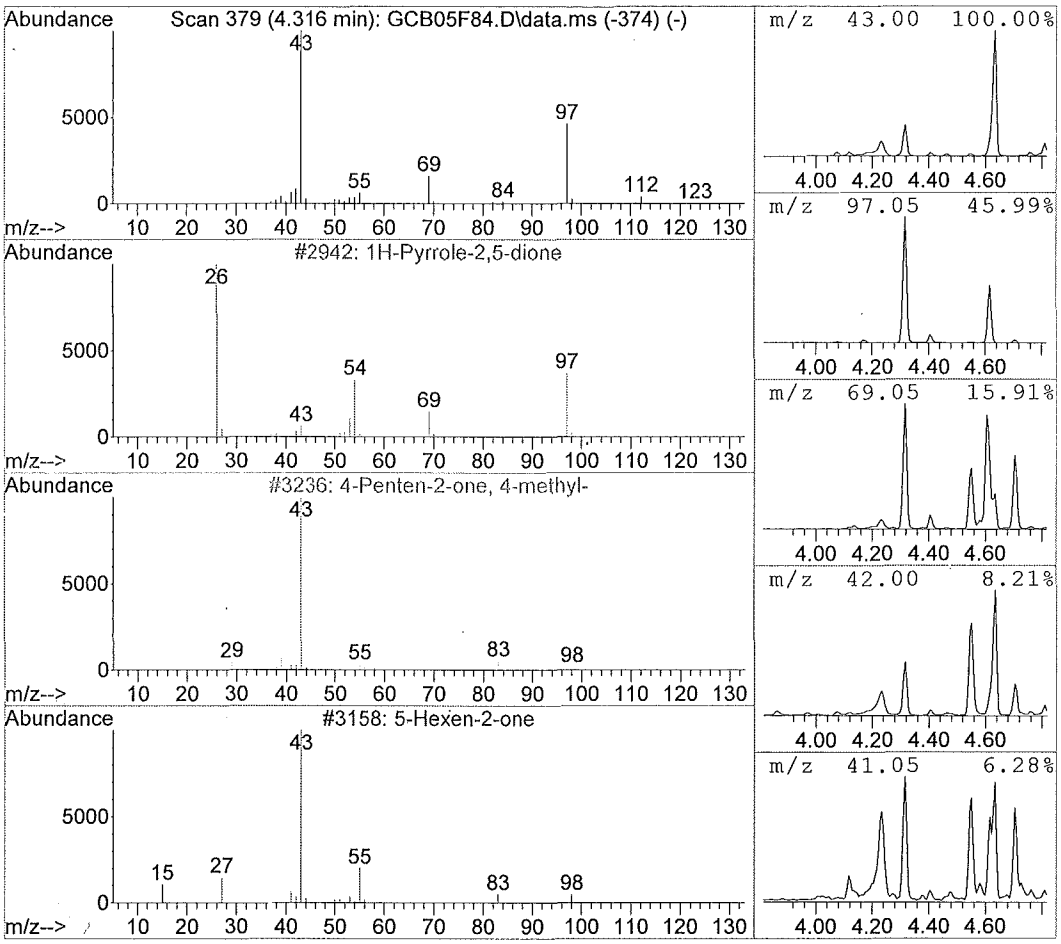
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB05F84.D Vial: 27
Acq On : 06/23/2015 19:18 Operator: TJM
Sample : 1515725004 F9M84 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.32	19.05 ug/ml	2101447	1,4-Dichlorobenzene-d4	2206218

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	40.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	5-Hexen-2-one	3158	000109-49-9	9.00
4	2,6,6-Trimethyl-bicyclo[3.1.1]hept-	26216	069460-11-3	9.00
5	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00

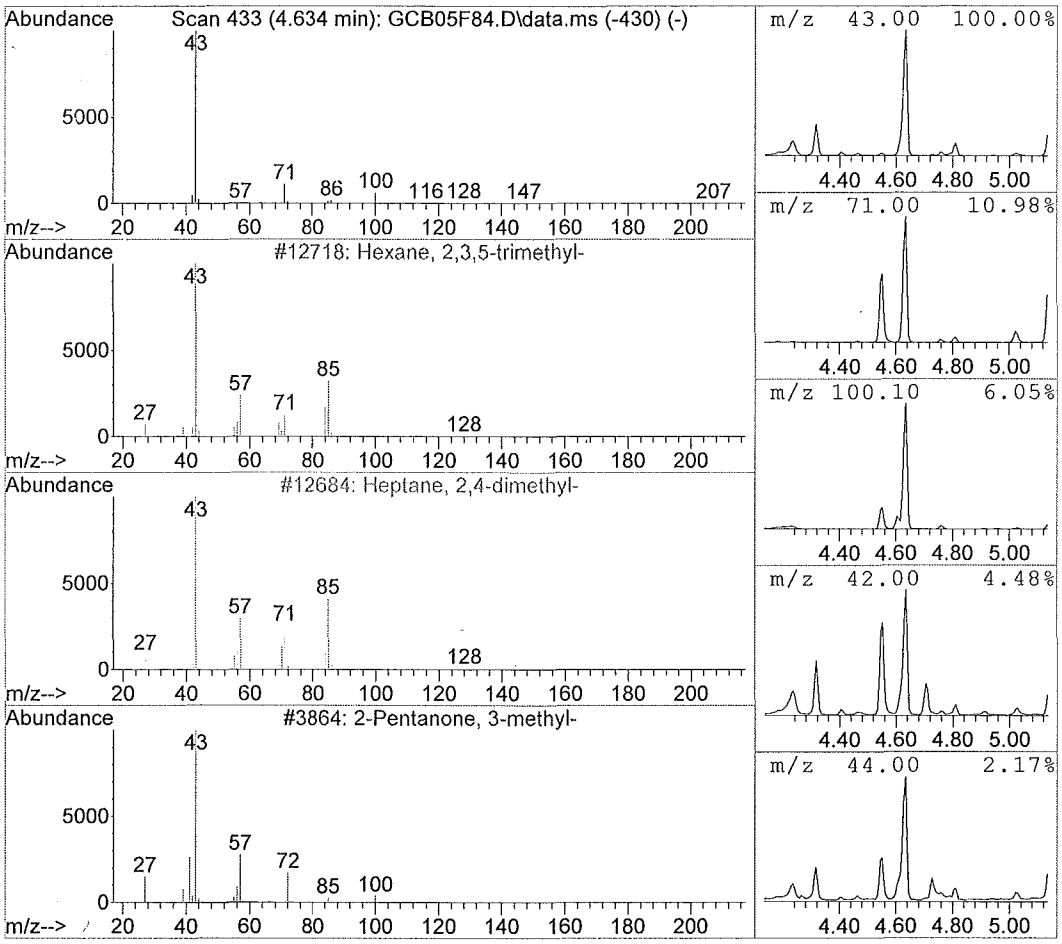


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB05F84.D Vial: 27
Acq On : 06/23/2015 19:18 Operator: TJM
Sample : 1515725004 F9M84 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.63	49.00 ug/ml	5405661	1,4-Dichlorobenzene-d4	2206218

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
2	Heptane, 2,4-dimethyl-	12684	002213-23-2	5.00
3	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
4	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00
5	3-Hexanone	3776	000589-38-8	5.00

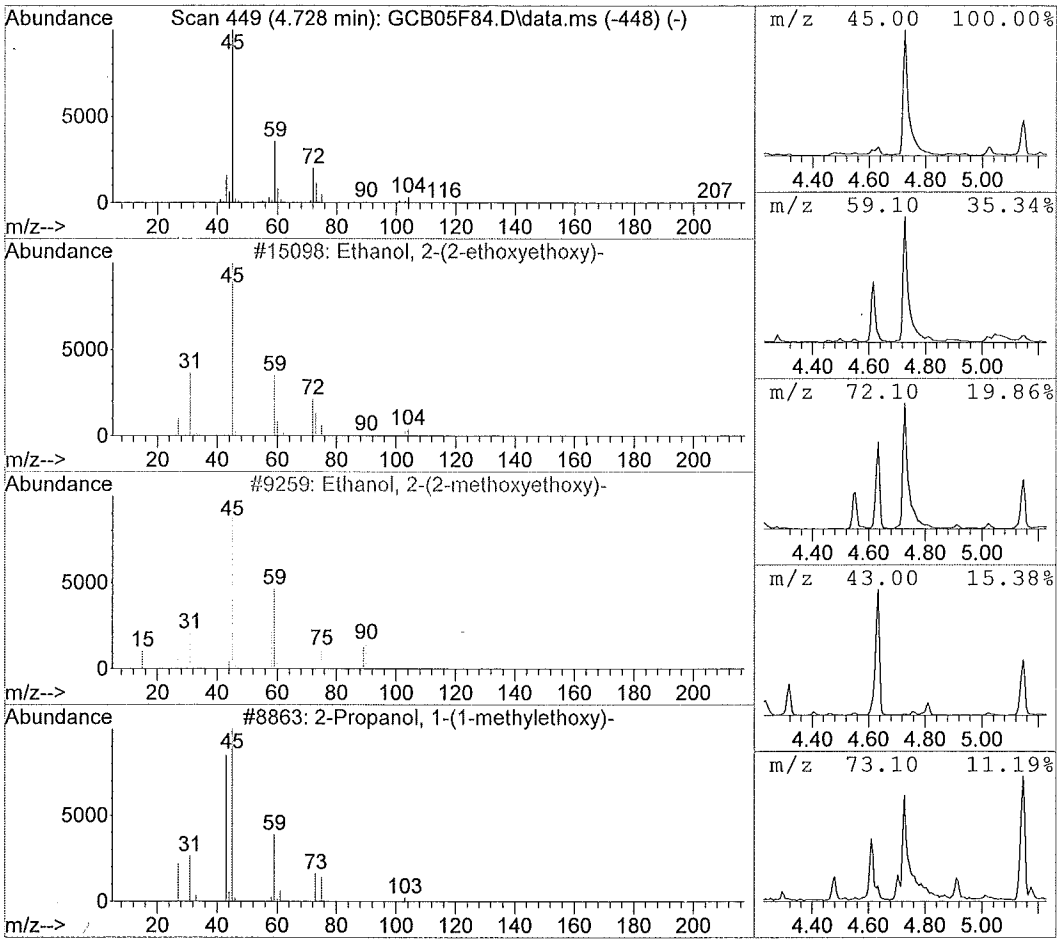


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB05F84.D Vial: 27
Acq On : 06/23/2015 19:18 Operator: TJM
Sample : 1515725004 F9M84 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.73	4.53 ug/ml	499904	1,4-Dichlorobenzene-d4	2206218

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanol, 2-(2-ethoxyethoxy)-	15098	000111-90-0	64.00
2	Ethanol, 2-(2-methoxyethoxy)-	9259	000111-77-3	59.00
3	2-Propanol, 1-(1-methylethoxy)-	8863	003944-36-3	38.00
4	Ethanol, 2-[2-(2-ethoxyethoxy)ethox	44468	000112-50-5	38.00
5	Methyl 2-(2-methoxyethoxy)acetate	22994	1000366-88-1	38.00



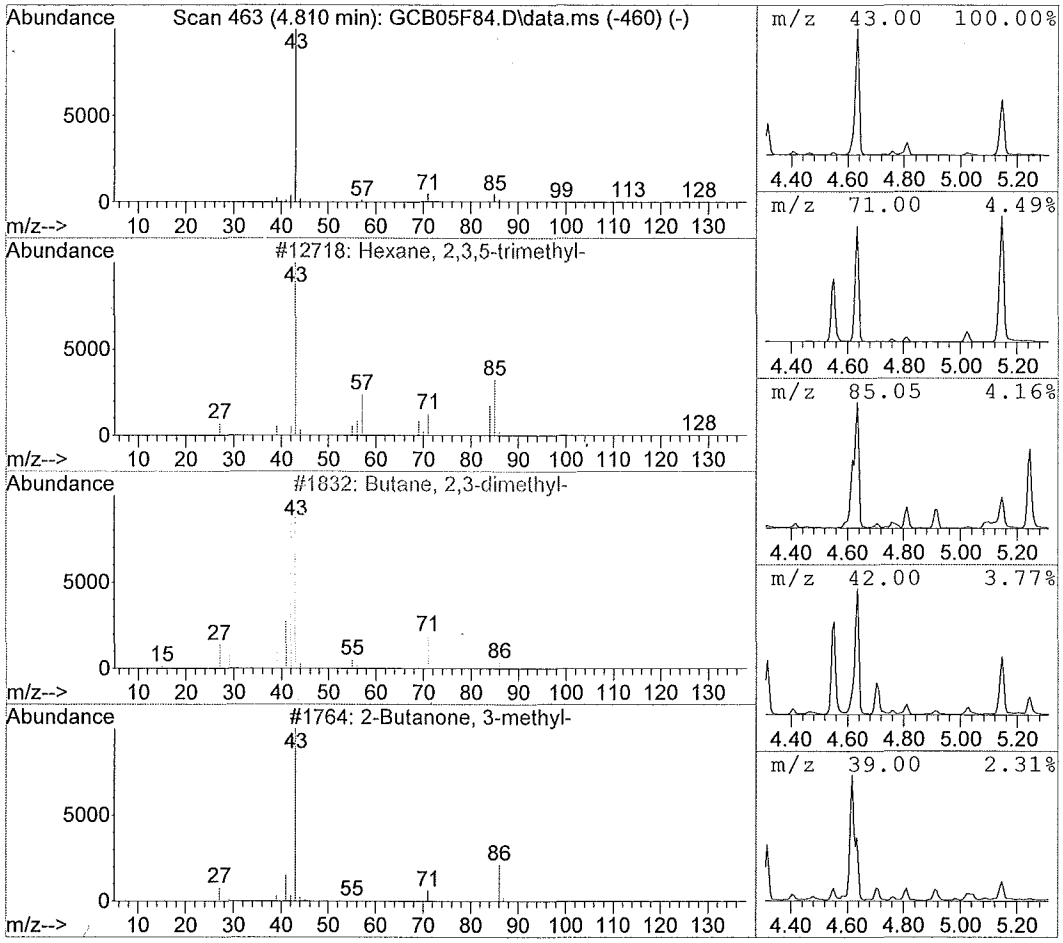
Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB05F84.D Vial: 27
Acq On : 06/23/2015 19:18 Operator: TJM
Sample : 1515725004 F9M84 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.81	4.66 ug/ml	513580	1,4-Dichlorobenzene-d4	2206218

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	5.00
2	Butane, 2,3-dimethyl-	1832	000079-29-8	4.00
3	2-Butanone, 3-methyl-	1764	000563-80-4	4.00
4	Octane, 4-methyl-	12674	002216-34-4	3.00
5	Heptane, 2,3-dimethyl-	12694	003074-71-3	3.00

BA



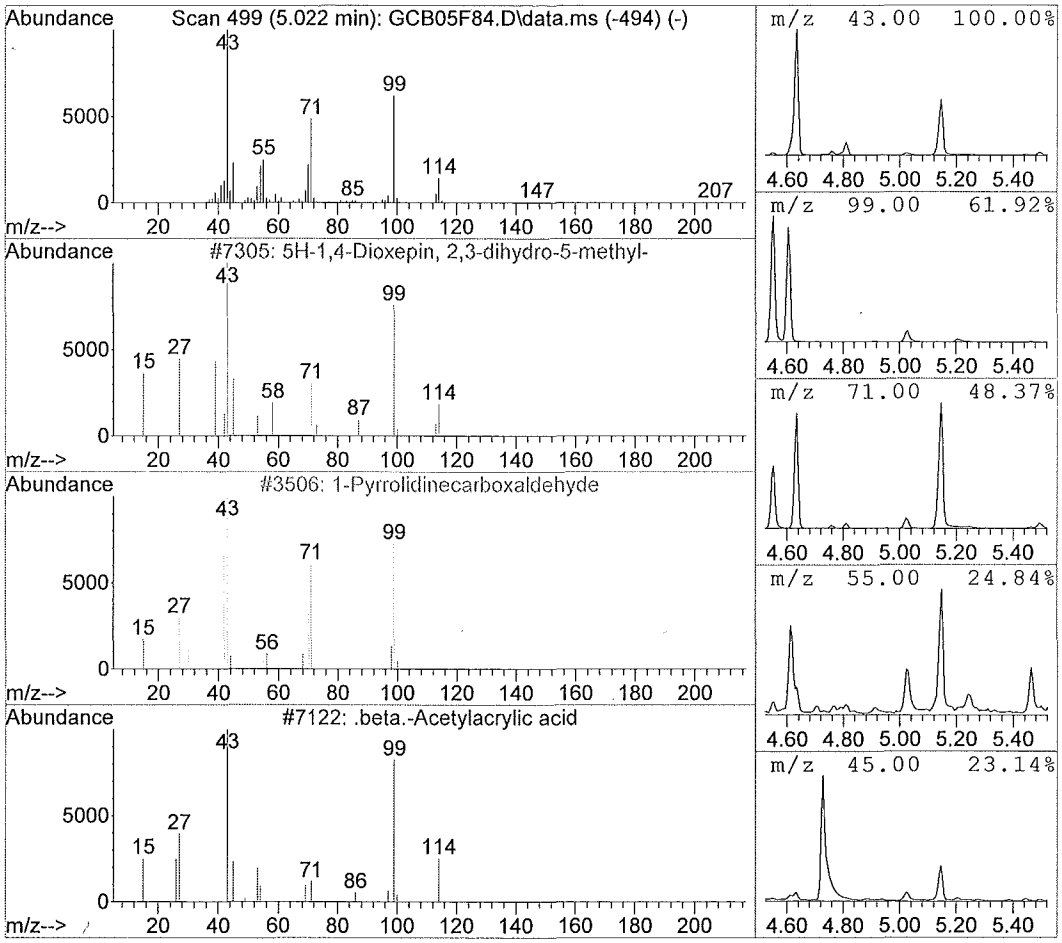
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB05F84.D Vial: 27
Acq On : 06/23/2015 19:18 Operator: TJM
Sample : 1515725004 F9M84 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.02	4.58 ug/ml	504948	1,4-Dichlorobenzene-d4	2206218

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	5H-1,4-Dioxepin, 2,3-dihydro-5-meth	7305	038653-36-0	46.00
2	1-Pyrrolidinecarboxaldehyde	3506	003760-54-1	43.00
3	.beta.-Acetylacrylic acid	7122	004743-82-2	35.00
4	3,7-Decadiene-5,6-diol, 4,7-dimethy	59587	022427-95-8	32.00
5	3-Pentanone, 2,4-dimethyl-	7578	000565-80-0	30.00

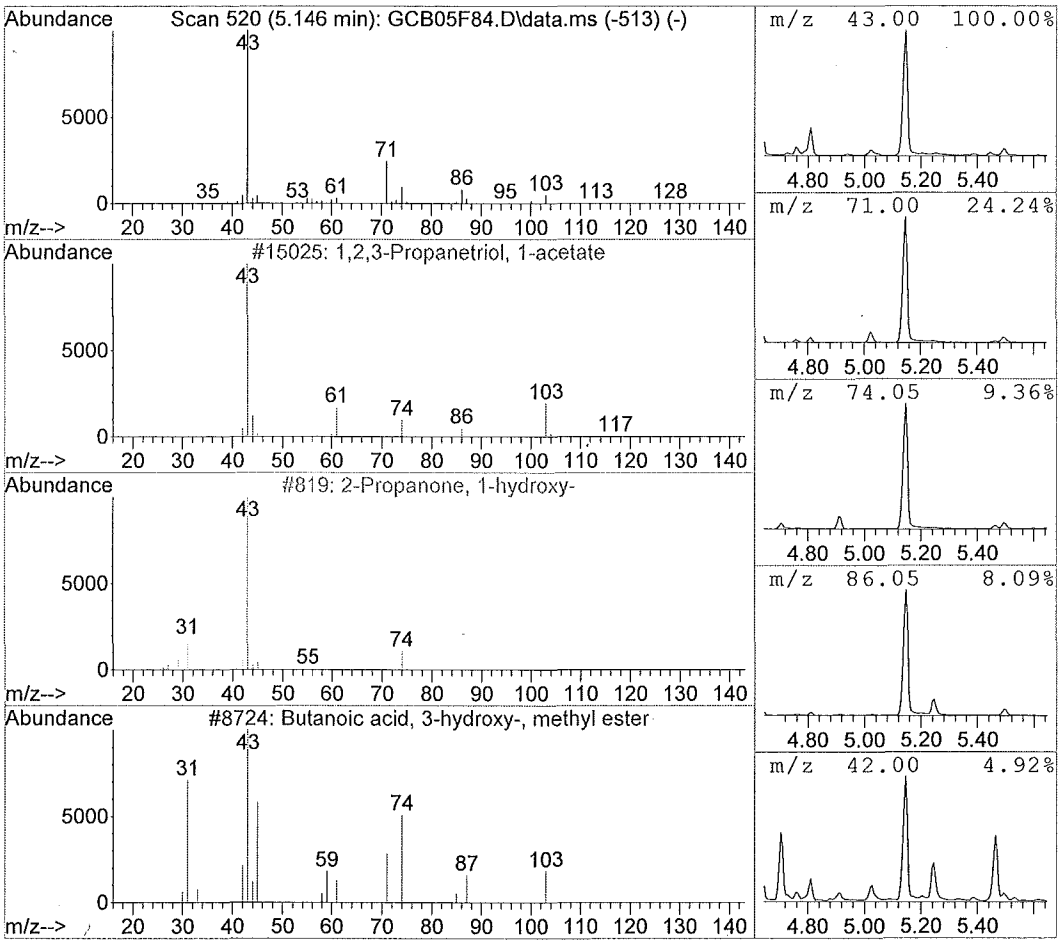


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB05F84.D Vial: 27
Acq On : 06/23/2015 19:18 Operator: TJM
Sample : 1515725004 F9M84 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.15	35.34 ug/ml	3898406	1,4-Dichlorobenzene-d4	2206218

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	37.00
2	2-Propanone, 1-hydroxy-	819	000116-09-6	27.00
3	Butanoic acid, 3-hydroxy-, methyl e	8724	001487-49-6	10.00
4	1-Propanol, 2-methyl-	856	000078-83-1	10.00
5	Diacetyl sulphide	8654	003232-39-1	10.00

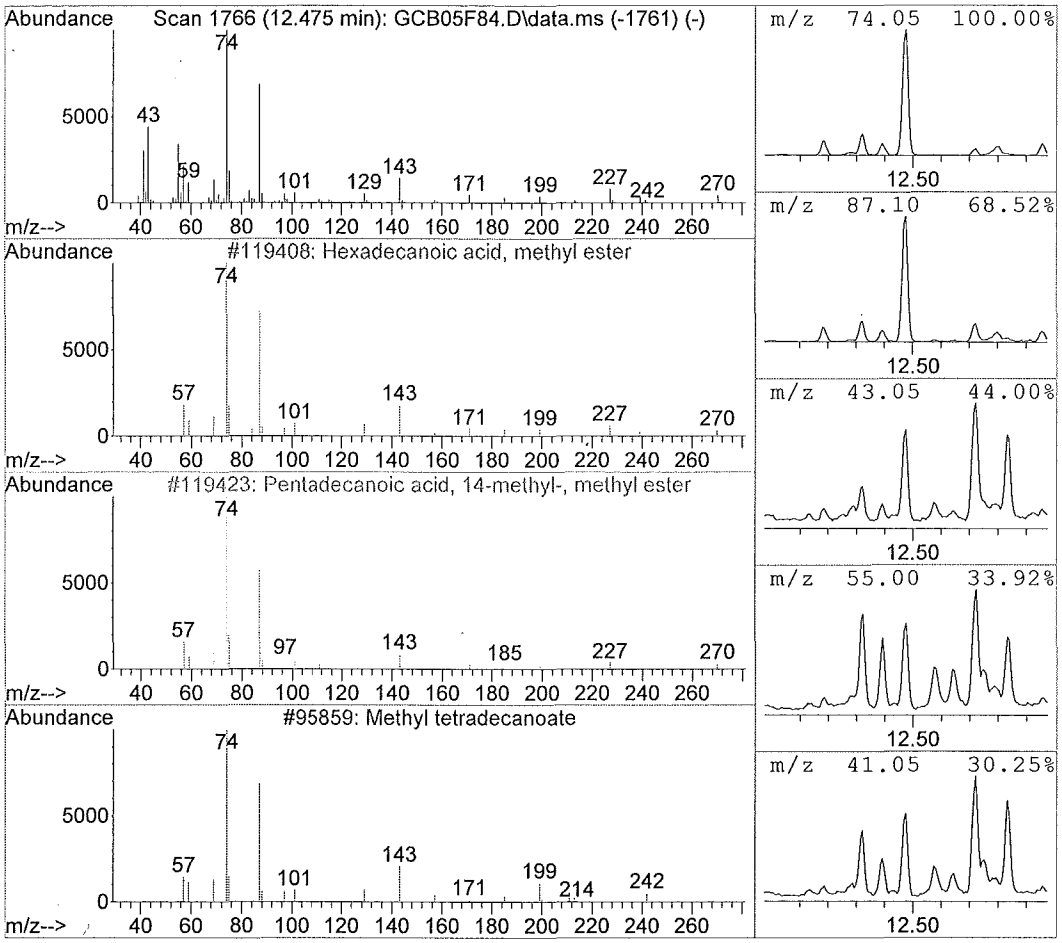


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB05F84.D Vial: 27
Acq On : 06/23/2015 19:18 Operator: TJM
Sample : 1515725004 F9M84 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.47	4.68 ug/ml	762835	Phenanthrene-d10	3260137

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, methyl ester	119408	000112-39-0	97.00
2	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	96.00
3	Methyl tetradecanoate	95859	000124-10-7	93.00
4	Tridecanoic acid, methyl ester	84485	001731-88-0	93.00
5	Dodecanoic acid, 10-methyl-, methyl	84514	005129-65-7	90.00

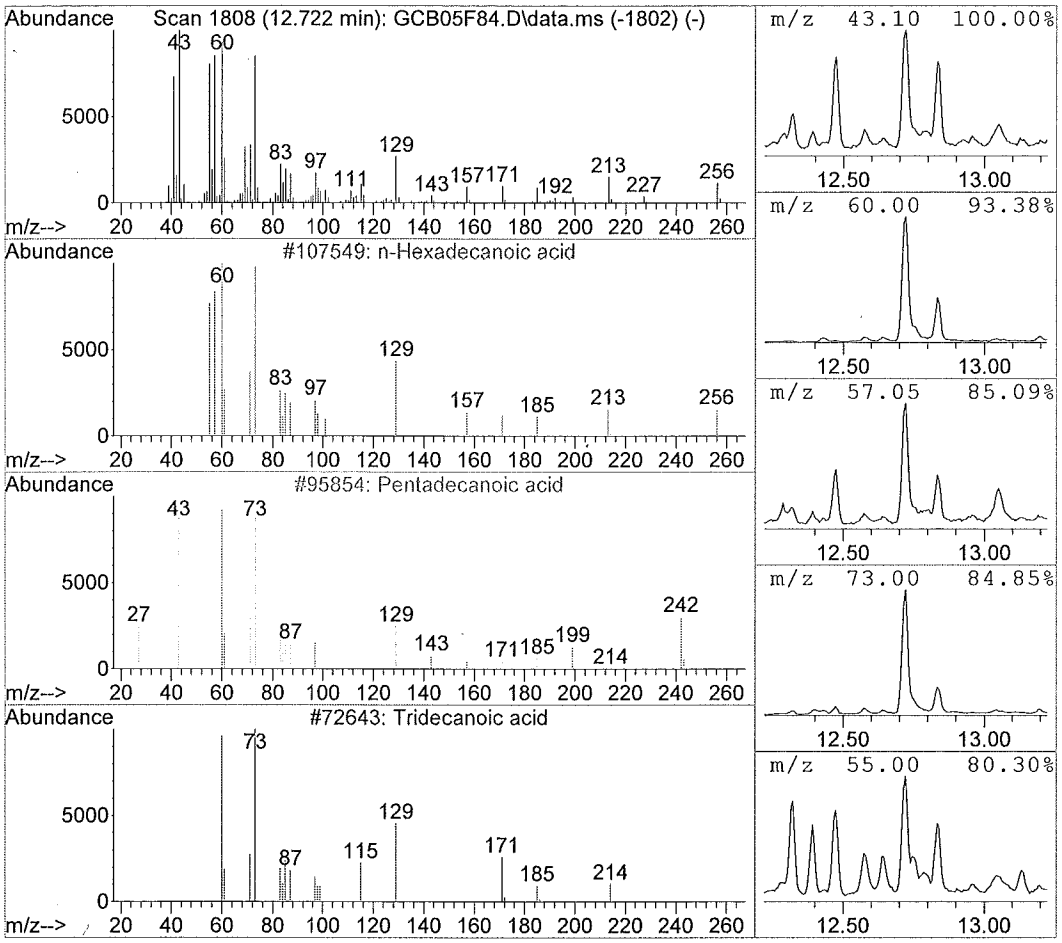


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB05F84.D Vial: 27
Acq On : 06/23/2015 19:18 Operator: TJM
Sample : 1515725004 F9M84 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.72	6.29 ug/ml	1025908	Phenanthrene-d10	3260137

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Pentadecanoic acid	95854	001002-84-2	83.00
3	Tridecanoic acid	72643	000638-53-9	81.00
4	Dodecanoic acid	61120	000143-07-7	68.00
5	n-Decanoic acid	39474	000334-48-5	60.00

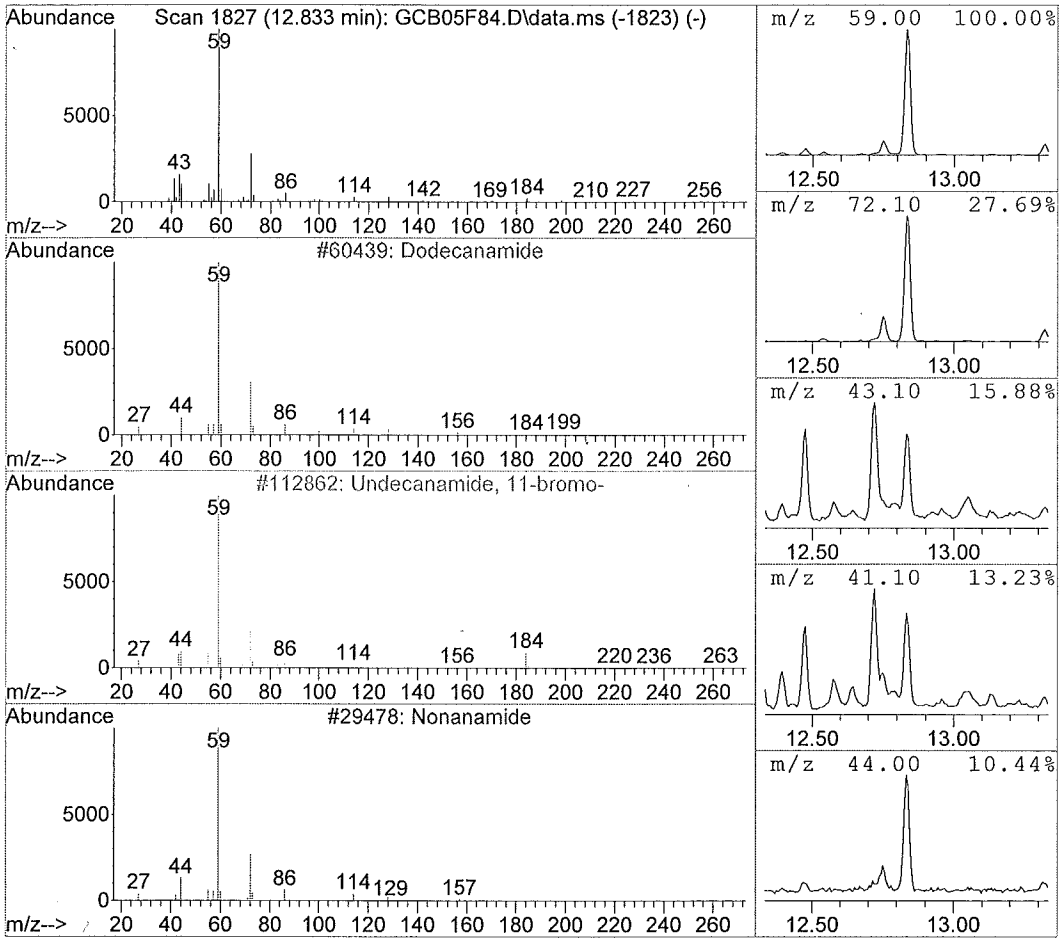


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB05F84.D Vial: 27
Acq On : 06/23/2015 19:18 Operator: TJM
Sample : 1515725004 F9M84 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.83	5.68 ug/ml	925497	Phenanthrene-d10	3260137

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	83.00
2	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
3	Nonanamide	29478	001120-07-6	72.00
4	Pentanamide	4064	000626-97-1	64.00
5	Decanamide-	38977	002319-29-1	56.00



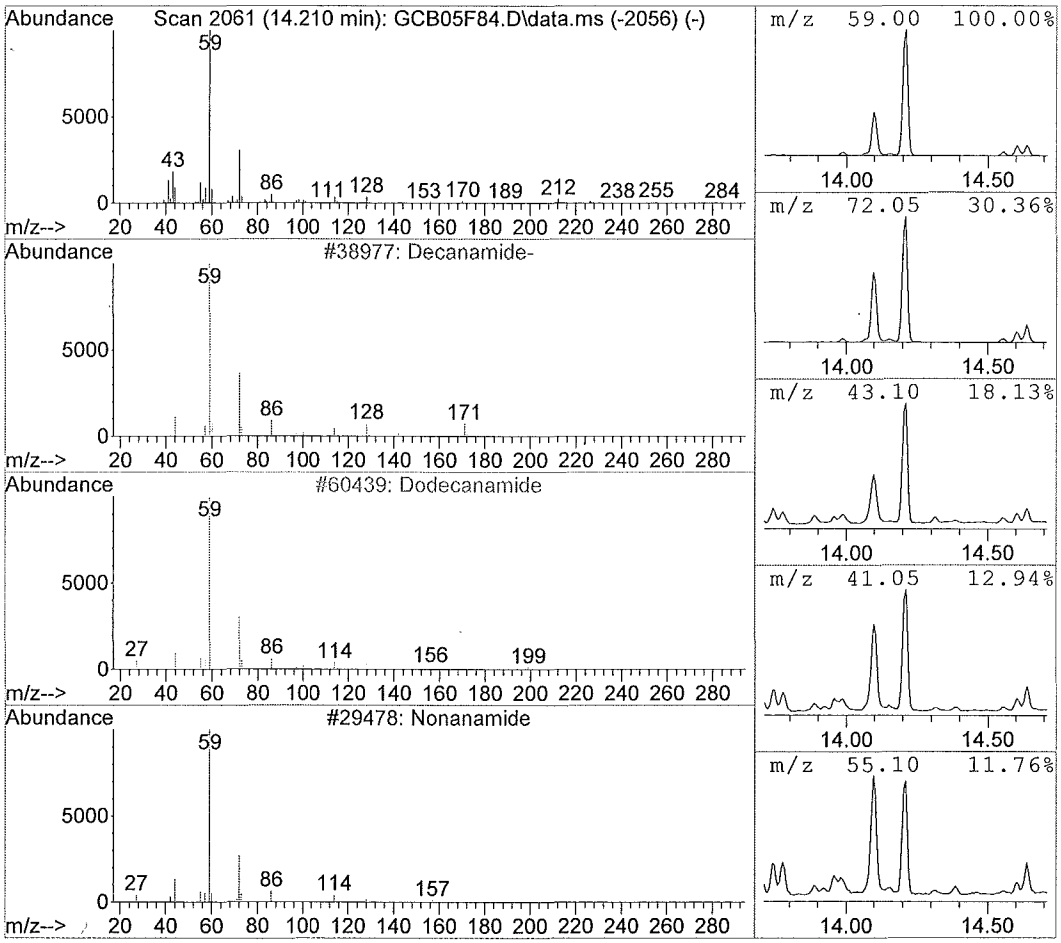
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB05F84.D Vial: 27
Acq On : 06/23/2015 19:18 Operator: TJM
Sample : 1515725004 F9M84 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.21	18.99 ug/ml	3362129	Chrysene-d12	3541449

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decanamide-	38977	002319-29-1	91.00
2	Dodecanamide	60439	001120-16-7	90.00
3	Nonanamide	29478	001120-07-6	83.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	72.00

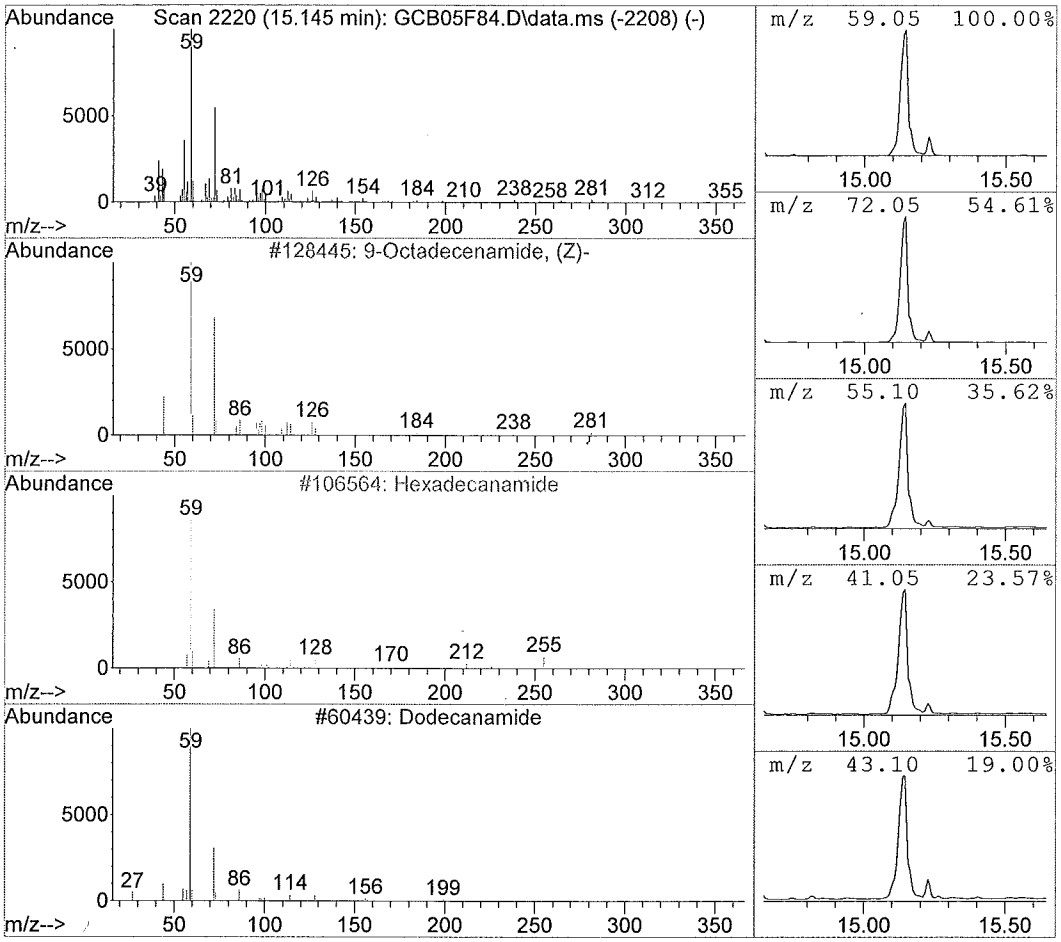


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB05F84.D Vial: 27
Acq On : 06/23/2015 19:18 Operator: TJM
Sample : 1515725004 F9M84 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.14	189.28 ug/ml	33516555	Chrysene-d12	3541449

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Hexadecanamide	106564	000629-54-9	72.00
3	Dodecanamide	60439	001120-16-7	59.00
4	Tetradecanamide	83609	000638-58-4	56.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	53.00

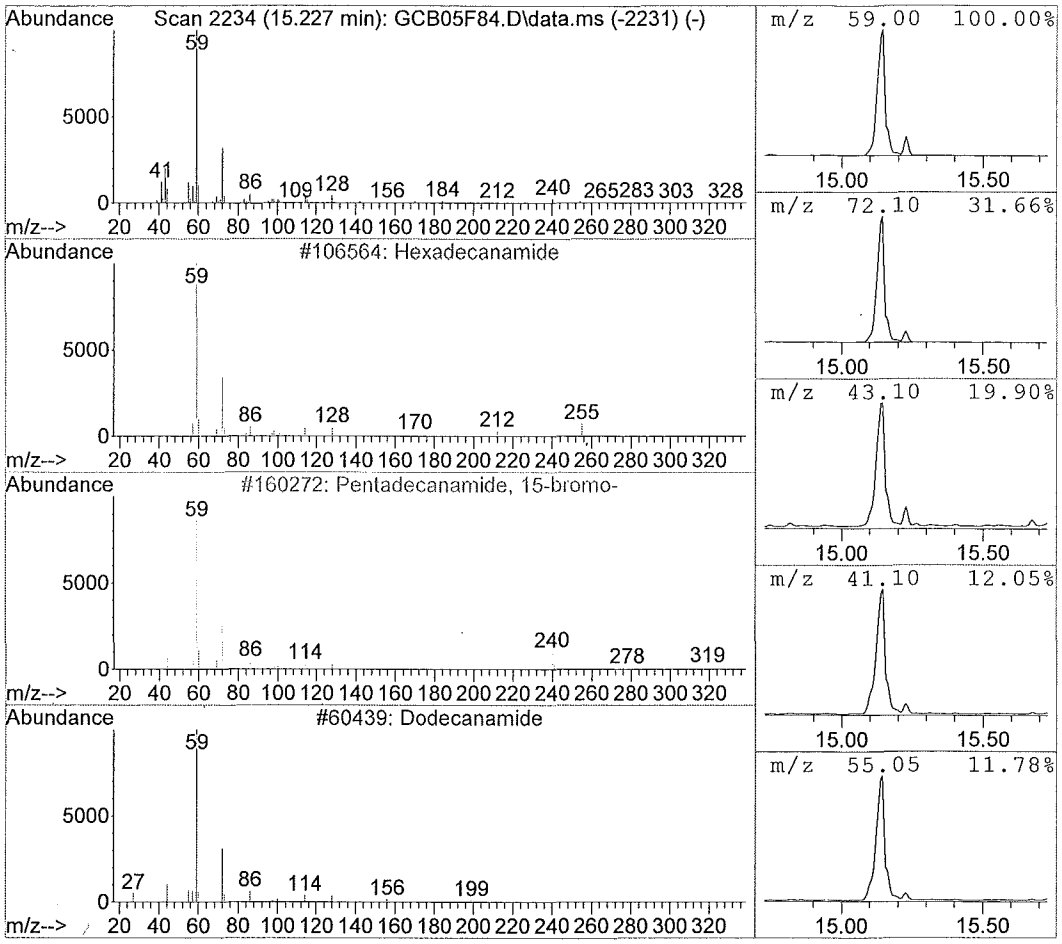


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB05F84.D Vial: 27
Acq On : 06/23/2015 19:18 Operator: TJM
Sample : 1515725004 F9M84 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.23	7.70 ug/ml	1363760	Chrysene-d12	3541449

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	96.00
2	Pentadecanamide, 15-bromo-	160272	1000163-86-1	90.00
3	Dodecanamide	60439	001120-16-7	83.00
4	Tetradecanamide	83609	000638-58-4	72.00
5	Nonanamide	29478	001120-07-6	72.00

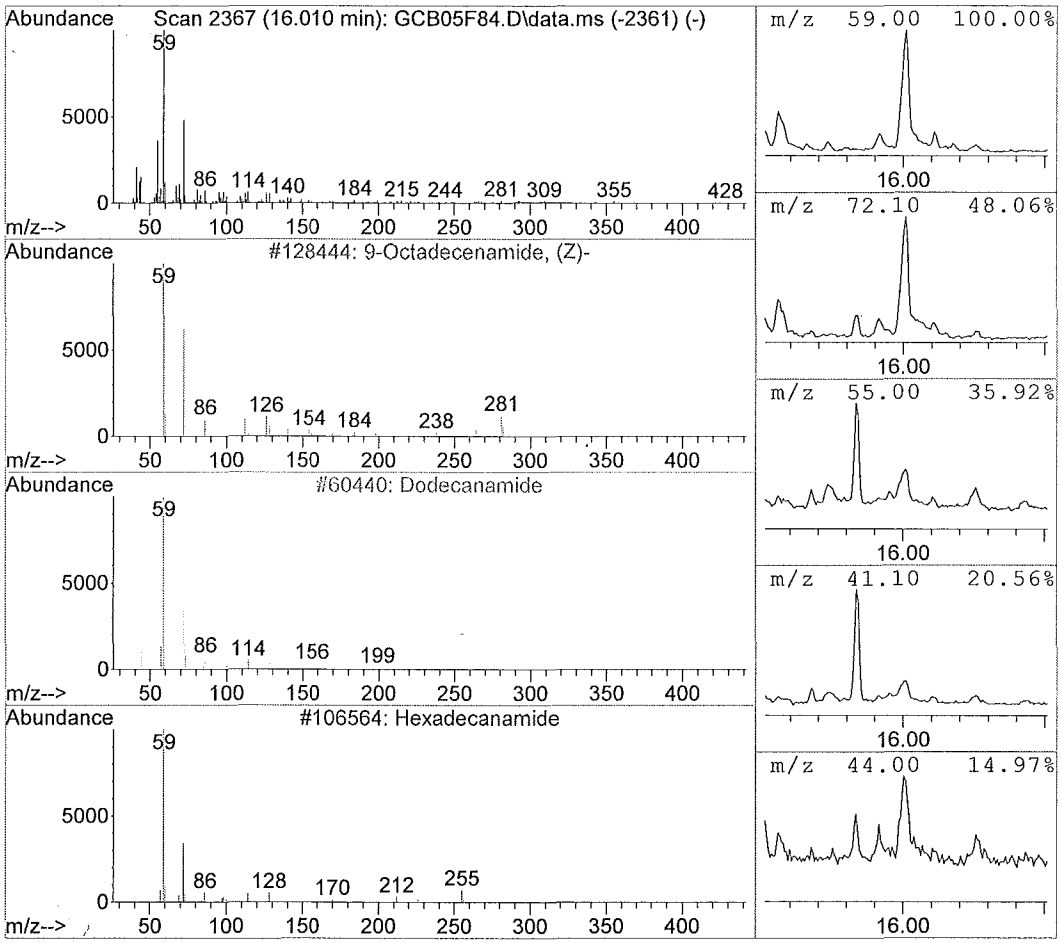


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB05F84.D Vial: 27
Acq On : 06/23/2015 19:18 Operator: TJM
Sample : 1515725004 F9M84 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.01	4.10 ug/ml	725296	Chrysene-d12	3541449

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128444	000301-02-0	90.00
2	Dodecanamide	60440	001120-16-7	86.00
3	Hexadecanamide	106564	000629-54-9	78.00
4	Nonadecanamide	142051	058185-32-3	64.00
5	7-Nonenamide	28131	090949-53-4	64.00



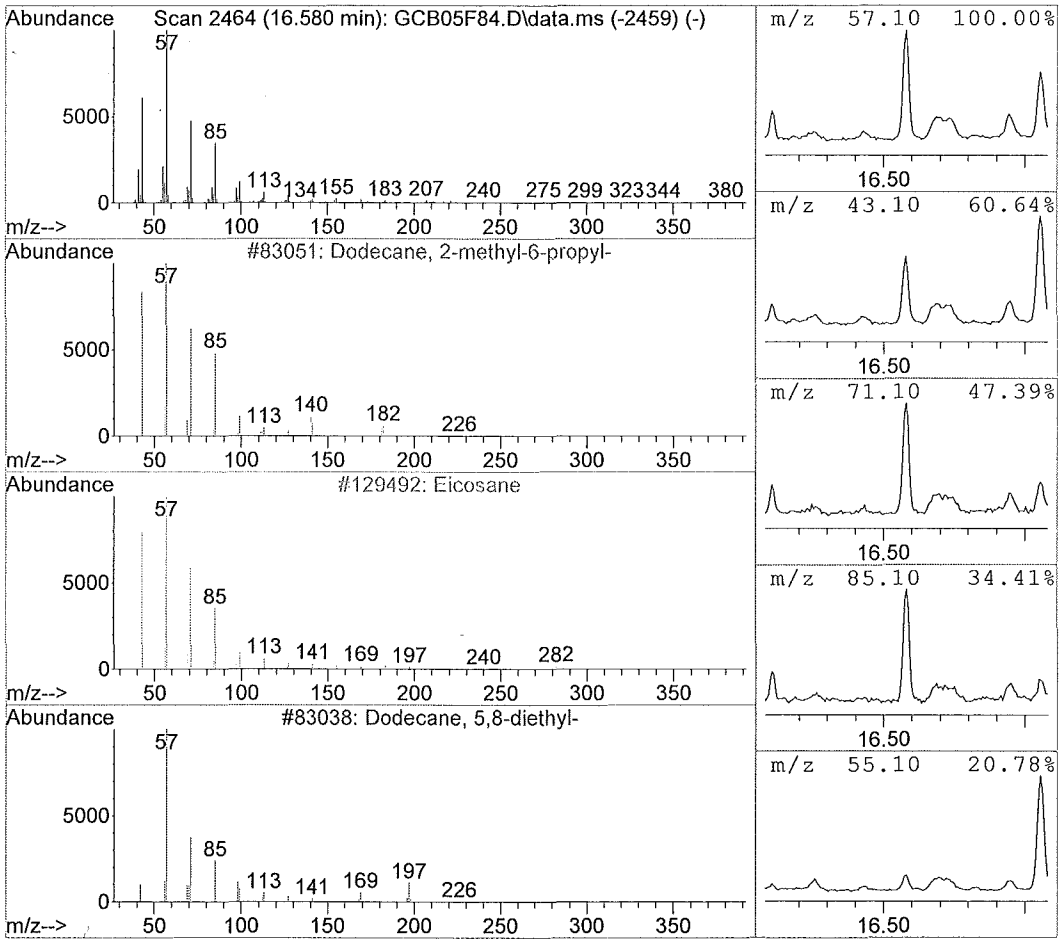
Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB05F84.D Vial: 27
Acq On : 06/23/2015 19:18 Operator: TJM
Sample : 1515725004 F9M84 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.58	3.11 ug/ml	550556	Chrysene-d12	3541449

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	91.00
2	Eicosane	129492	000112-95-8	91.00
3	Dodecane, 5,8-diethyl-	83038	024251-86-3	90.00
4	Octacosane	209566	000630-02-4	87.00
5	Tetracosane	175557	000646-31-1	86.00

BA

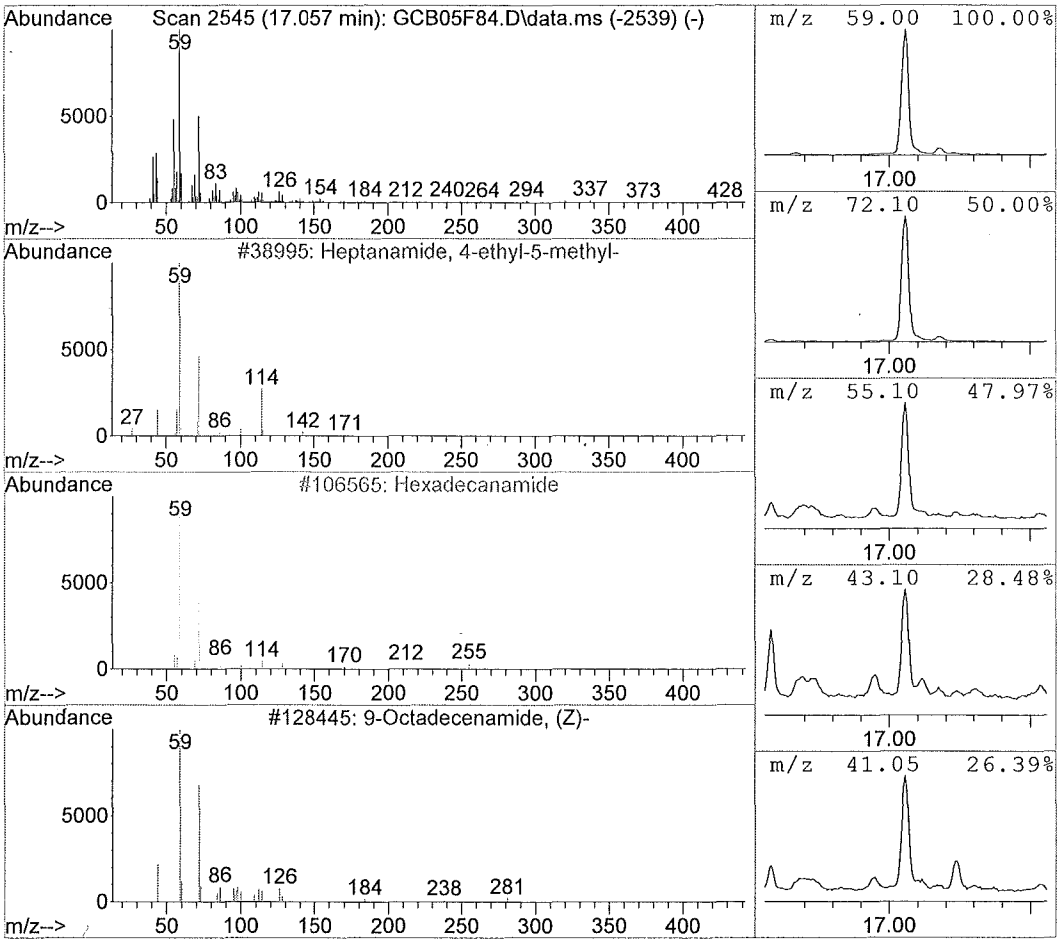


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB05F84.D Vial: 27
Acq On : 06/23/2015 19:18 Operator: TJM
Sample : 1515725004 F9M84 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.06	19.94 ug/ml	2797679	Perylene-d12	2805518

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	64.00
2	Hexadecanamide	106565	000629-54-9	64.00
3	9-Octadecenamide, (Z)-	128445	000301-02-0	62.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	59.00
5	Tetradecanamide	83608	000638-58-4	56.00



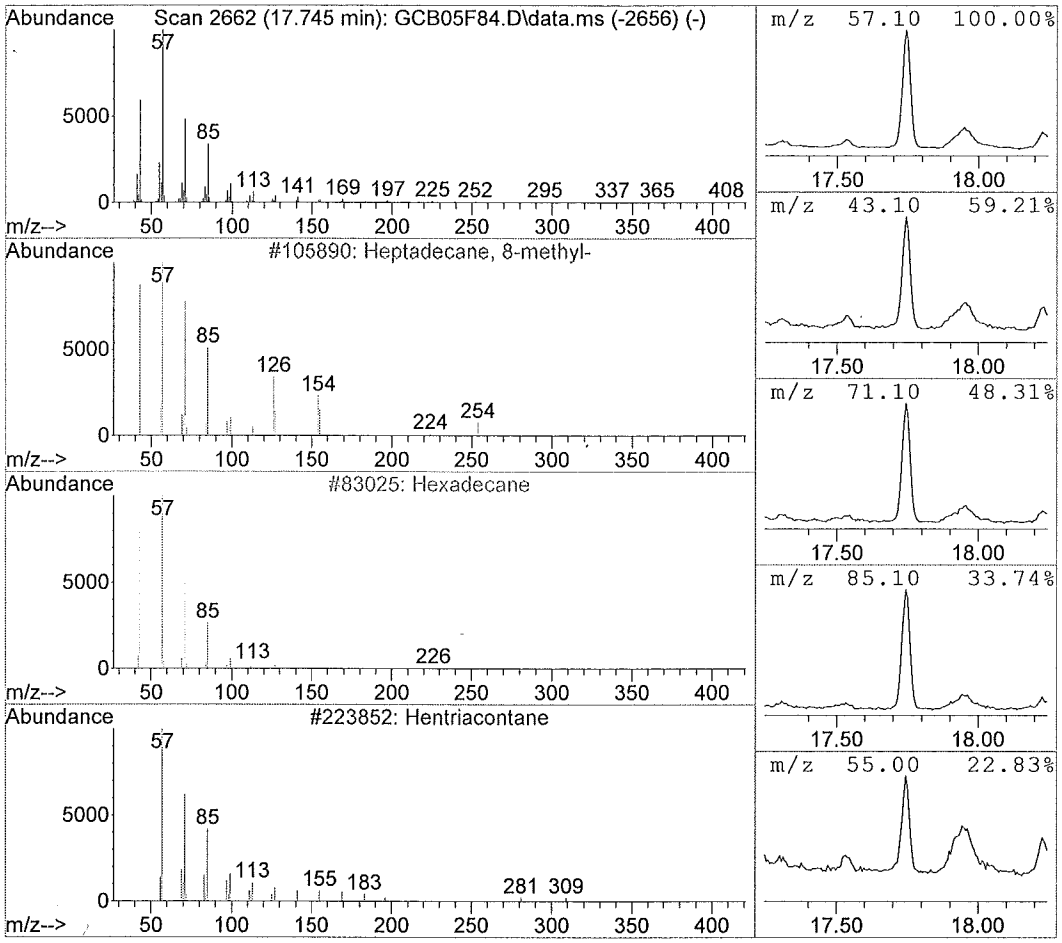
Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB05F84.D Vial: 27
Acq On : 06/23/2015 19:18 Operator: TJM
Sample : 1515725004 F9M84 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.74	10.44 ug/ml	1464915	Perylene-d12	2805518

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptadecane, 8-methyl-	105890	013287-23-5	93.00
2	Hexadecane	83025	000544-76-3	91.00
3	Hentriacontane	223852	000630-04-6	90.00
4	Hexacosane	194493	000630-01-3	87.00
5	Tridecane, 1-iodo-	152416	035599-77-0	87.00

BA



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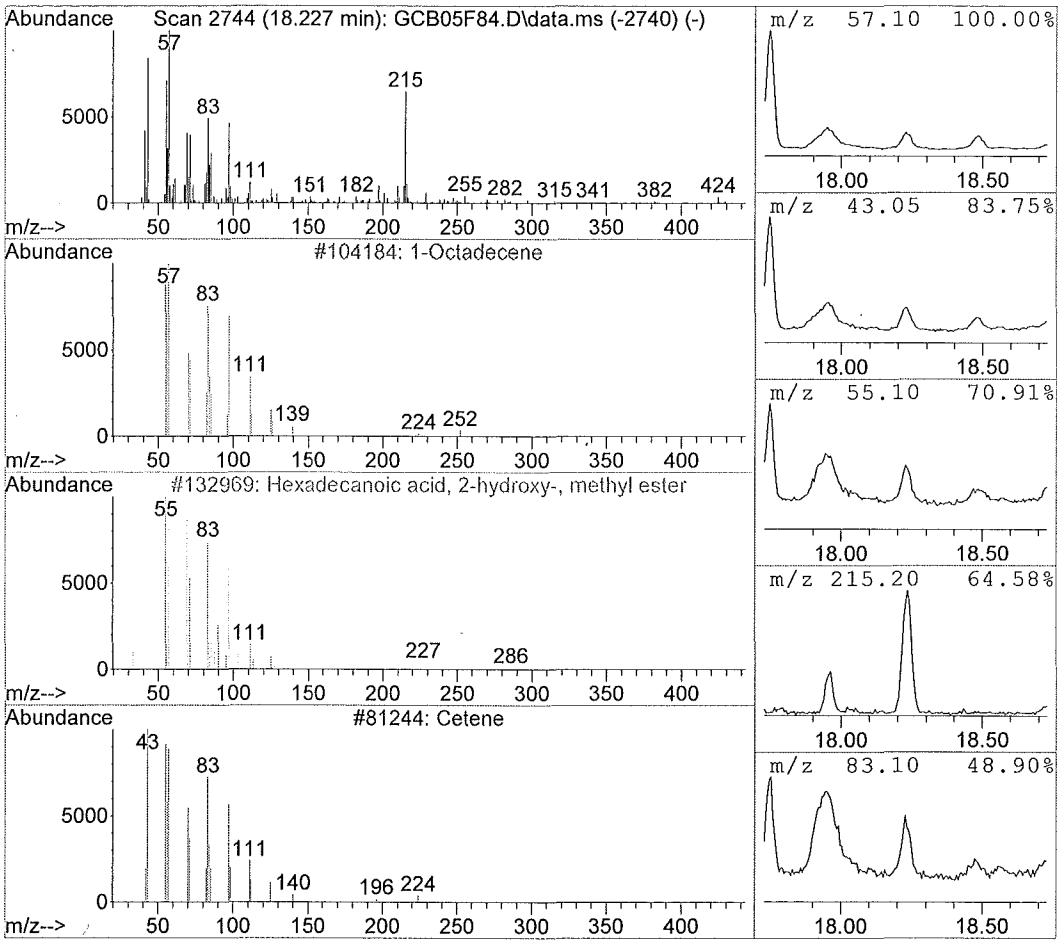
Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB05F84.D Vial: 27
Acq On : 06/23/2015 19:18 Operator: TJM
Sample : 1515725004 F9M84 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.23	3.71 ug/ml	520562	Perylene-d12	2805518

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Octadecene	104184	000112-88-9	41.00
2	Hexadecanoic acid, 2-hydroxy-, meth	132969	016742-51-1	30.00
3	Cetene	81244	000629-73-2	30.00
4	1-Heptadecene	92567	006765-39-5	27.00
5	Cyclopentane, 2-isopropyl-1,3-dimet	18060	032281-85-9	25.00

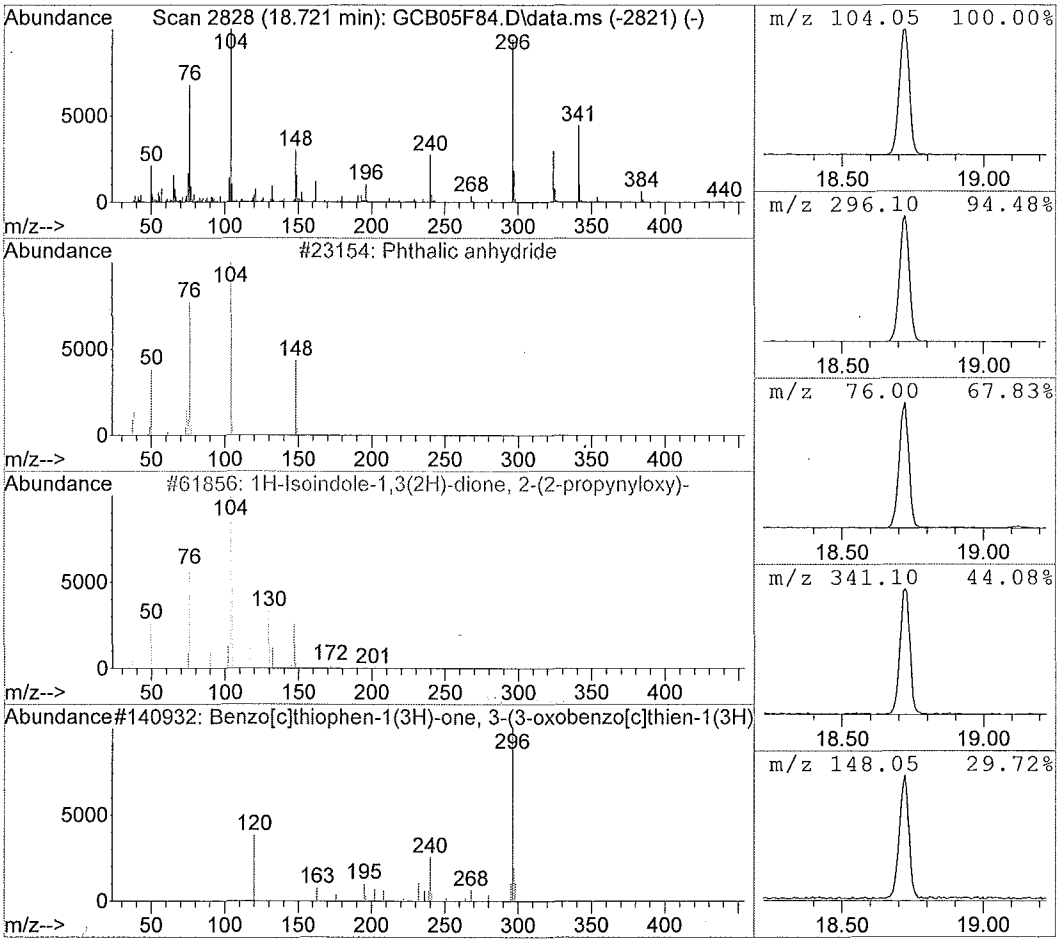


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB05F84.D Vial: 27
Acq On : 06/23/2015 19:18 Operator: TJM
Sample : 1515725004 F9M84 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.72	12.11 ug/ml	1698978	Perylene-d12	2805518

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23154	000085-44-9	27.00
2	1H-Isoindole-1,3(2H)-dione, 2-(2-pr	61856	004616-63-1	22.00
3	Benzo[c]thiophen-1(3H)-one, 3-(3-ox	140932	023667-32-5	22.00
4	3-Ethylideneisobenzofuranone	30775	004767-63-9	22.00
5	Isonipecotic acid, N-(3-chloropropi	169906	1000360-94-7	14.00



Library Search Compound Report

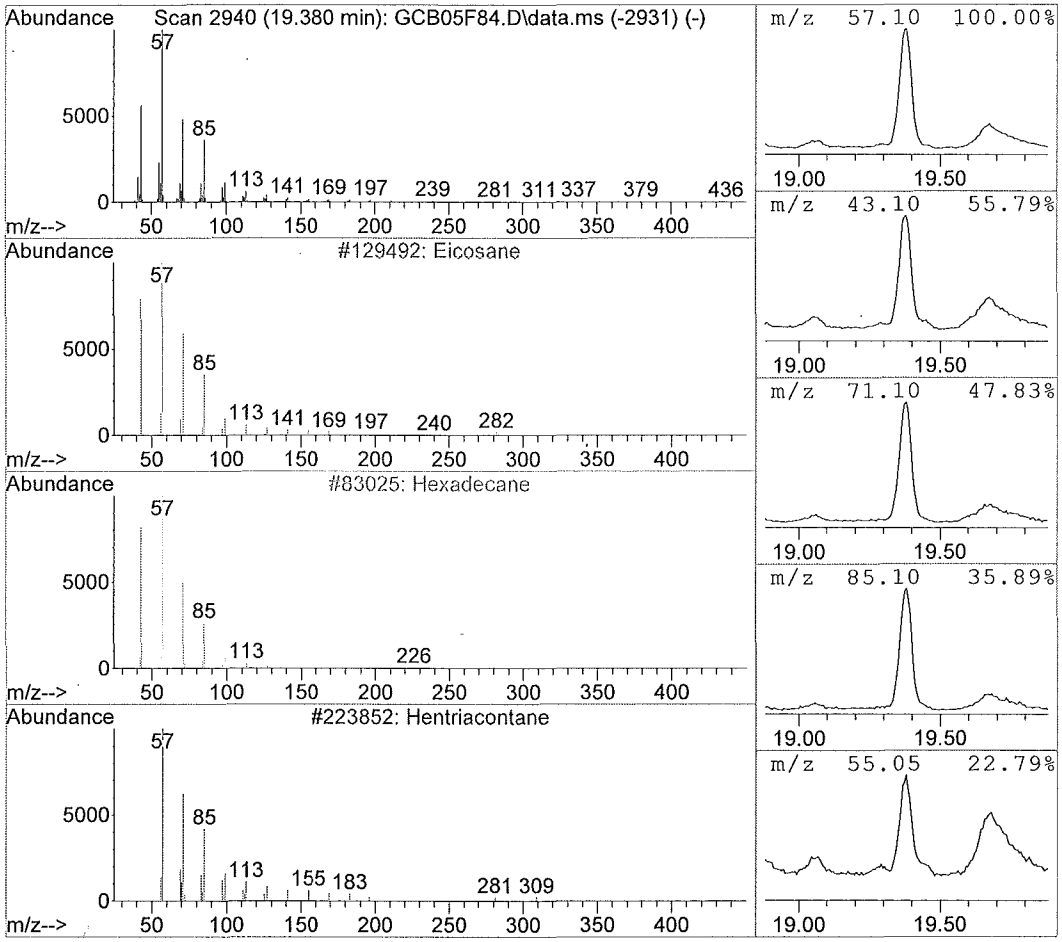
Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB05F84.D Vial: 27
Acq On : 06/23/2015 19:18 Operator: TJM
Sample : 1515725004 F9M84 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.38	15.53 ug/ml	2179174	Perylene-d12	2805518

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane	129492	000112-95-8	94.00
2	Hexadecane	83025	000544-76-3	93.00
3	Hentriacontane	223852	000630-04-6	91.00
4	Heptacosane	202662	000593-49-7	91.00
5	Hexacosane	194493	000630-01-3	90.00

SA

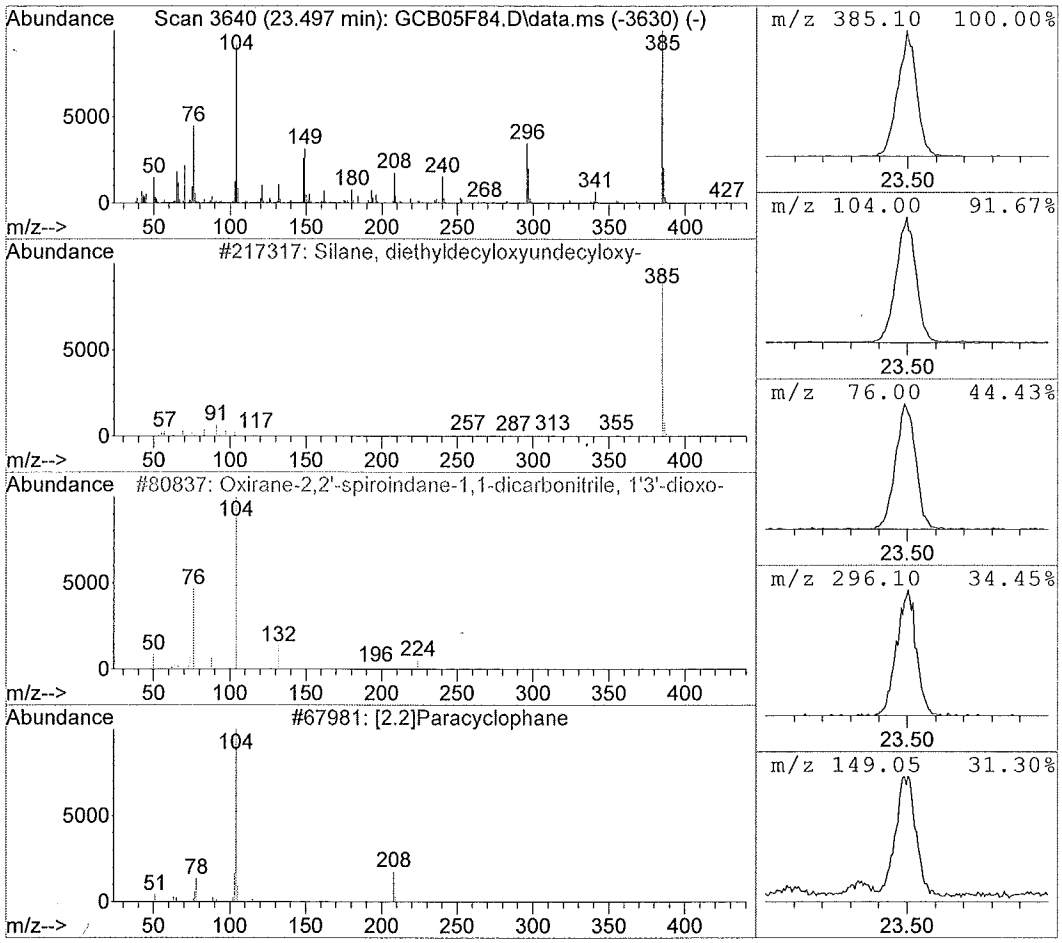


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB05F84.D Vial: 27
Acq On : 06/23/2015 19:18 Operator: TJM
Sample : 1515725004 F9M84 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.50	10.99 ug/ml	1541104	Perylene-d12	2805518

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Silane, diethyldecyloxyundecyloxy-	217317	1000363-32-9	14.00
2	Oxirane-2,2'-spiroindane-1,1-dicarb	80837	051779-34-1	12.00
3	[2.2]Paracyclophane	67981	001633-22-3	11.00
4	Naphthalene, 1,2,3,4-tetrahydro-2-p	68010	029422-13-7	10.00
5	Silane, diethylhexyloxypentadecylox	217319	1000363-74-3	10.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M85

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725005

Sample wt/vol: 30.5 (g/mL) g Lab File ID: GCB06F85

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 5.6 Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/23/2015

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	180	U
108-95-2	Phenol	180	U
111-44-4	Bis(2-chloroethyl)ether	180	U
95-57-8	2-Chlorophenol	180	U
95-48-7	2-Methylphenol	180	U
108-60-1	2,2'-Oxybis(1-chloropropane)	180	U
98-86-2	Acetophenone	180	U
106-44-5	4-Methylphenol	180	U
621-64-7	N-Nitroso-di-n-propylamine	180	U
67-72-1	Hexachloroethane	180	U
98-95-3	Nitrobenzene	180	U
78-59-1	Isophorone	180	U
88-75-5	2-Nitrophenol	180	U
105-67-9	2,4-Dimethylphenol	180	U
111-91-1	Bis(2-chloroethoxy)methane	180	U
120-83-2	2,4-Dichlorophenol	180	U
91-20-3	Naphthalene	180	U
106-47-8	4-Chloroaniline	180	U
87-68-3	Hexachlorobutadiene	180	U
105-60-2	Caprolactam	180	U
59-50-7	4-Chloro-3-methylphenol	180	U
91-57-6	2-Methylnaphthalene	180	U
77-47-4	Hexachlorocyclopentadiene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U
92-52-4	1,1'-Biphenyl	180	U
91-58-7	2-Chloronaphthalene	180	U
88-74-4	2-Nitroaniline	340	U
131-11-3	Dimethylphthalate	180	U
606-20-2	2,6-Dinitrotoluene	180	U
208-96-8	Acenaphthylene	180	U
99-09-2	3-Nitroaniline	340	U
83-32-9	Acenaphthene	180	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M85

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725005

Sample wt/vol: 30.5 (g/mL) g Lab File ID: GCB06F85

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 5.6 Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/23/2015

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	340	U
100-02-7	4-Nitrophenol	340	U
132-64-9	Dibenzofuran	180	U
121-14-2	2,4-Dinitrotoluene	180	U
84-66-2	Diethylphthalate	180	U
86-73-7	Fluorene	180	U
7005-72-3	4-Chlorophenyl-phenylether	180	U
100-01-6	4-Nitroaniline	340	U
534-52-1	4,6-Dinitro-2-methylphenol	340	U
86-30-6	N-Nitrosodiphenylamine[1]	180	U
95-94-3	1,2,4,5-Tetrachlorobenzene	180	U
101-55-3	4-Bromophenyl-phenylether	180	U
118-74-1	Hexachlorobenzene	180	U
1912-24-9	Atrazine	180	U
87-86-5	Pentachlorophenol	340	U
85-01-8	Phenanthrene	180	U
120-12-7	Anthracene	180	U
86-74-8	Carbazole	180	U
84-74-2	Di-n-butylphthalate	180	U
206-44-0	Fluoranthene	180	U
129-00-0	Pyrene	180	U
85-68-7	Butylbenzylphthalate	180	U
91-94-1	3,3'-Dichlorobenzidine	180	U
56-55-3	Benzo(a)anthracene	180	U
218-01-9	Chrysene	180	U
117-81-7	Bis(2-ethylhexyl)phthalate	25.	J
117-84-0	Di-n-octylphthalate	180	U
205-99-2	Benzo(b)fluoranthene	11.	J
207-08-9	Benzo(k)fluoranthene	180	U
50-32-8	Benzo(a)pyrene	180	U
193-39-5	Indeno(1,2,3-cd)pyrene	180	U
53-70-3	Dibenzo(a,h)anthracene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
58-90-2	2,3,4,6-Tetrachlorophenol	180	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M85

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725005
Sample wt/vol: 30.5 (g/mL) g Lab File ID: GCB06F85
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 5.6 Decanted: (Y/N) N Date Received: 06/05/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/23/2015
GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	814-78-8	3-Buten-2-one, 3-methyl-	2.22	480	JN
02		Unknown Furan, tetrahydro-2-(methoxymethyl)-	2.30	450	J
03		Unknown Pentane, 2-bromo-4-methyl-	2.84	320	J
04		Unknown 2-Pentanone, 4-hydroxy-	3.34	250	JB
05		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.53	7200	JB
06		Unknown 1-Propanol, 3,3'-oxybis-	3.58	200	J
07		Unknown 2-Methylbutanoic anhydride	4.23	970	J
08		Unknown 1H-Pyrrole-2,5-dione	4.32	1100	J
09		Unknown 2H-Pyran-2-one, tetrahydro-6-propyl-	5.02	180	J
10		Unknown 1,2,3-Propanetriol, 1-acetate	5.14	900	J
11		Unknown Cyclohexane-1,2,3-trione-1,3-dioxime	6.69	97.	J
12	5129-60-2	Pentadecanoic acid, 14-methyl-, methyl ester	12.47	220	JN
13	57-10-3	n-Hexadecanoic acid	12.72	480	JN
14	638-58-4	Tetradecanamide	12.84	150	JNB
15		Unknown 14-Octadecenoic acid, methyl ester	13.74	210	J
16	1120-16-7	Dodecanamide	14.21	620	JN
17	301-02-0	9-Octadecenamide, (Z)-	15.13	6300	JNB
18		Unknown Hexadecanamide	15.23	220	JB
19	111-02-4	Squalene	17.24	500	JN
20		Unknown 2-Thiazolamine, 4-(4-methoxyphenyl)-N-(4	18.73	850	J
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	5400	J

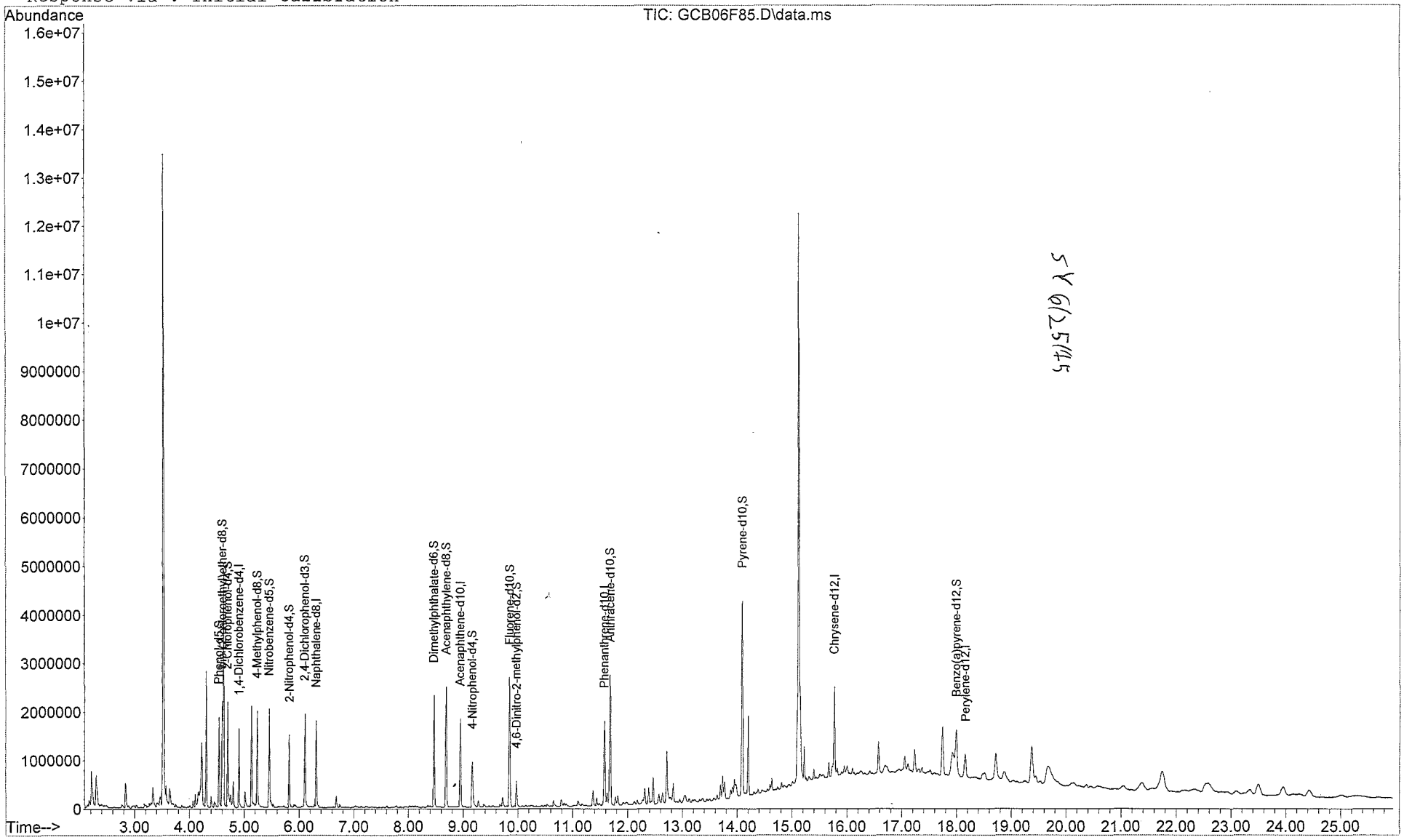
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 24 13:39:52 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration



epatemp
Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 13:39:52 2015 Results File: GSOM01D6.RES

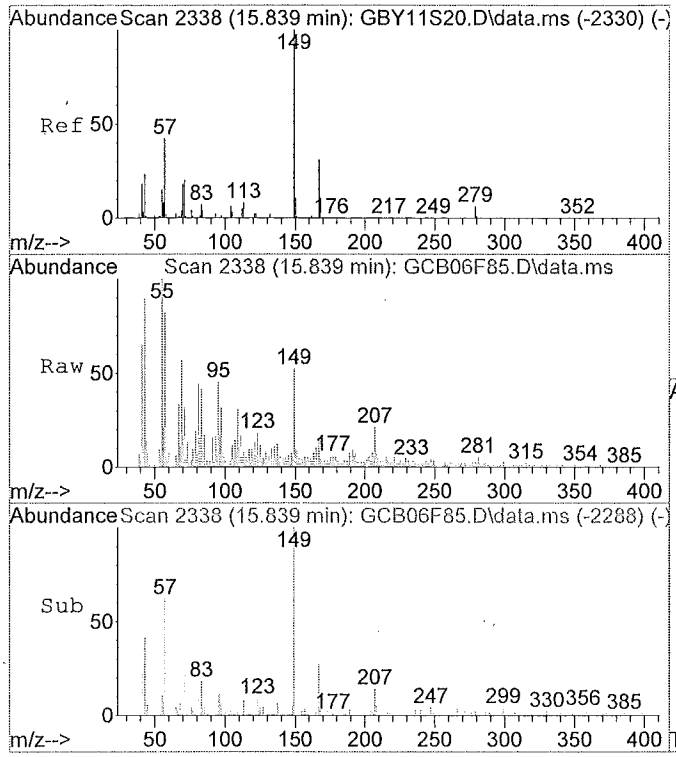
Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.92	152	244053	20.00 ug/ml
16) Naphthalene-d8	6.32	136	948854	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	568073	20.00 ug/ml
59) Phenanthrene-d10	11.59	188	962428	20.00 ug/ml
73) Chrysene-d12	15.78	240	760495	20.00 ug/ml
81) Perylene-d12	18.17	264	488436	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.55	99	650295	30.619ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	458430	27.698ug/mL
7) 2-Chlorophenol-d4	4.70	132	551450	30.753ug/ml
13) 4-Methylphenol-d8	5.25	113	414386	29.171ug/mL
17) Nitrobenzene-d5	5.46	128	248699	29.836ug/ml
21) 2-Nitrophenol-d4	5.83	143	268524	30.478ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	437778	31.910ug/mL
28) 4-Chloroaniline-d4	6.42	131	1617	0.108ug/mL
42) Dimethylphthalate-d6	8.47	166	1193166	33.495ug/mL
45) Acenaphthylene-d8	8.70	160	1514180	31.279ug/mL
50) 4-Nitrophenol-d4	9.17	143	240941	33.155ug/mL
57) Fluorene-d10	9.86	176	1036324	34.066ug/mL
61) 4,6-Dinitro-2-methylphenol	9.98	200	92039	13.474ug/mL
69) Anthracene-d10	11.69	188	1636227	32.059ug/mL
75) Pyrene-d10	14.10	212	1497231	39.450ug/mL
86) Benzo(a)pyrene-d12	18.00	264	559281	23.860ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77	Not Detected	
4) Phenol	0.00	94	Not Detected	
5) Bis(2-chloroethyl)ether	0.00	93	Not Detected	
8) 2-Chlorophenol	0.00	128	Not Detected	
9) 2-Methylphenol	0.00	108	Not Detected	
10) 2,2'-Oxybis-(1-chloropropa	0.00	45	Not Detected	
11) Acetophenone	0.00	105	Not Detected	
12) 4-methylphenol	0.00	108	Not Detected	
14) N-Nitroso-di-n-propylamine	0.00	70	Not Detected	
15) Hexachloroethane	0.00	117	Not Detected	
18) Nitrobenzene	0.00	77	Not Detected	
19) Isophorone	0.00	82	Not Detected	
20) 2-Nitrophenol	0.00	139	Not Detected	
22) 2,4-Dimethylphenol	0.00	107	Not Detected	
23) Bis(2-chloroethoxy)methane	0.00	93	Not Detected	
24) 2,4-Dichlorophenol	0.00	162	Not Detected	
26) Naphthalene	0.00	128	Not Detected	
27) 4-Chloroaniline	0.00	127	Not Detected	
29) Hexachlorobutadiene	0.00	225	Not Detected	
30) Caprolactam	0.00	113	Not Detected	
31) 4-Chloro-3-methylphenol	0.00	107	Not Detected	
32) 2-Methylnaphthalene	0.00	142	Not Detected	

		epatemp				
34)	1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected	
35)	Hexachlorocyclopentadiene	0.00	237		Not Detected	
36)	2,4,6-Trichlorophenol	0.00	196		Not Detected	
37)	2,4,5-Trichlorophenol	0.00	196		Not Detected	
38)	1,1'-Biphenyl	0.00	154		Not Detected	
39)	2-Chloronaphthalene	0.00	162		Not Detected	
40)	2-Nitroaniline	0.00	65		Not Detected	
41)	Dimethylphthalate	0.00	163		Not Detected	
43)	2,6-Dinitrotoluene	0.00	165		Not Detected	
44)	Acenaphthylene	0.00	152		Not Detected	
46)	3-Nitroaniline	0.00	138		Not Detected	
47)	Acenaphthene	0.00	153		Not Detected	
48)	2,4-Dinitrophenol	0.00	184		Not Detected	
49)	4-Nitrophenol	0.00	109		Not Detected	
51)	Dibenzofuran	0.00	168		Not Detected	
52)	2,4-Dinitrotoluene	0.00	165		Not Detected	
53)	2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54)	Diethylphthalate	0.00	149		Not Detected	
55)	4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56)	Fluorene	0.00	166		Not Detected	
58)	4-Nitroaniline	0.00	138		Not Detected	
60)	4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62)	N-Nitrosodiphenylamine	0.00	169		Not Detected	
63)	4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64)	Hexachlorobenzene	0.00	284		Not Detected	
65)	Atrazine	0.00	200		Not Detected	
66)	Pentachlorophenol	0.00	266		Not Detected	
67)	Phenanthrene	0.00	178		Not Detected	
68)	Anthracene	0.00	178		Not Detected	
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	0.00	202		Not Detected	
74)	Pyrene	0.00	202		Not Detected	
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	0.00	228		Not Detected	
79)	Chrysene	0.00	228		Not Detected	
80)	Bis-(2-ethylhexyl)phthalat	15.84	149	27570	0.733ug/ml	96
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	17.42	252	10060	0.329ug/ml m	88
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	0.00	252		Not Detected	
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

SY 6/25/15

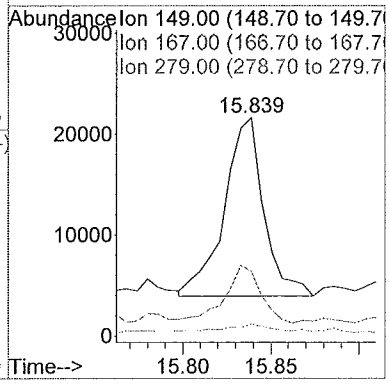
(m) = manual integration
GCB06F85.D GSOM01D6.M Thu Jun 25 07:49:52 2015

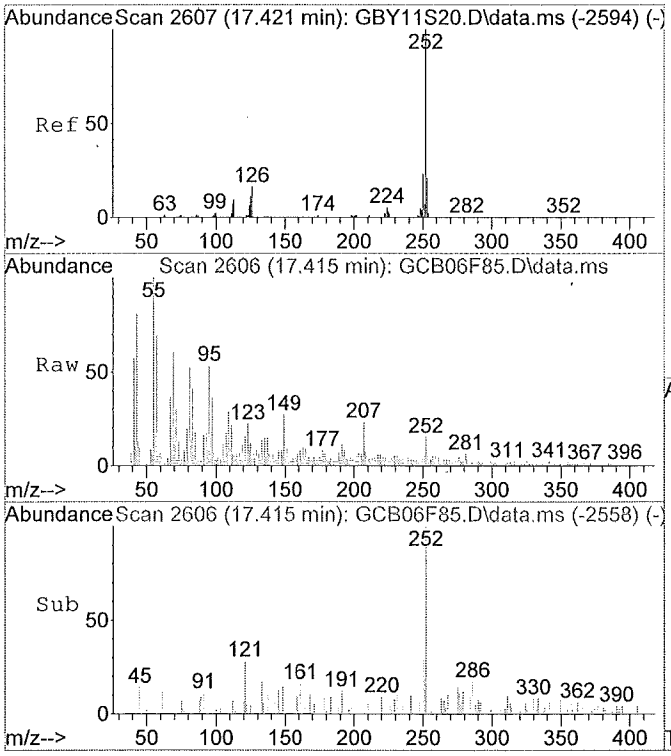


#80
Bis-(2-ethylhexyl)phthalate
Concen: 0.73 ug/ml
RT: 15.84 min Scan# 2338
Delta R.T. -0.01 min
Lab File: GCB06F85.D
Acq: 06/23/2015 19:51

Tgt Ion:149 Resp: 27570

Ion	Ratio	Lower	Upper
149	100		
167	29.5	22.0	40.8
279	5.7	5.0	9.2
0	0.0	0.0	0.0

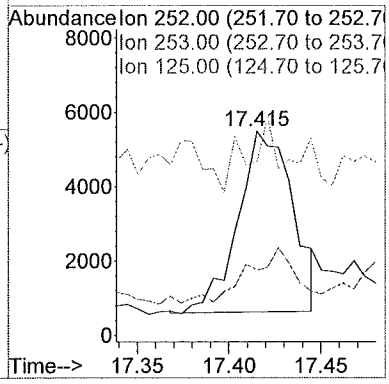




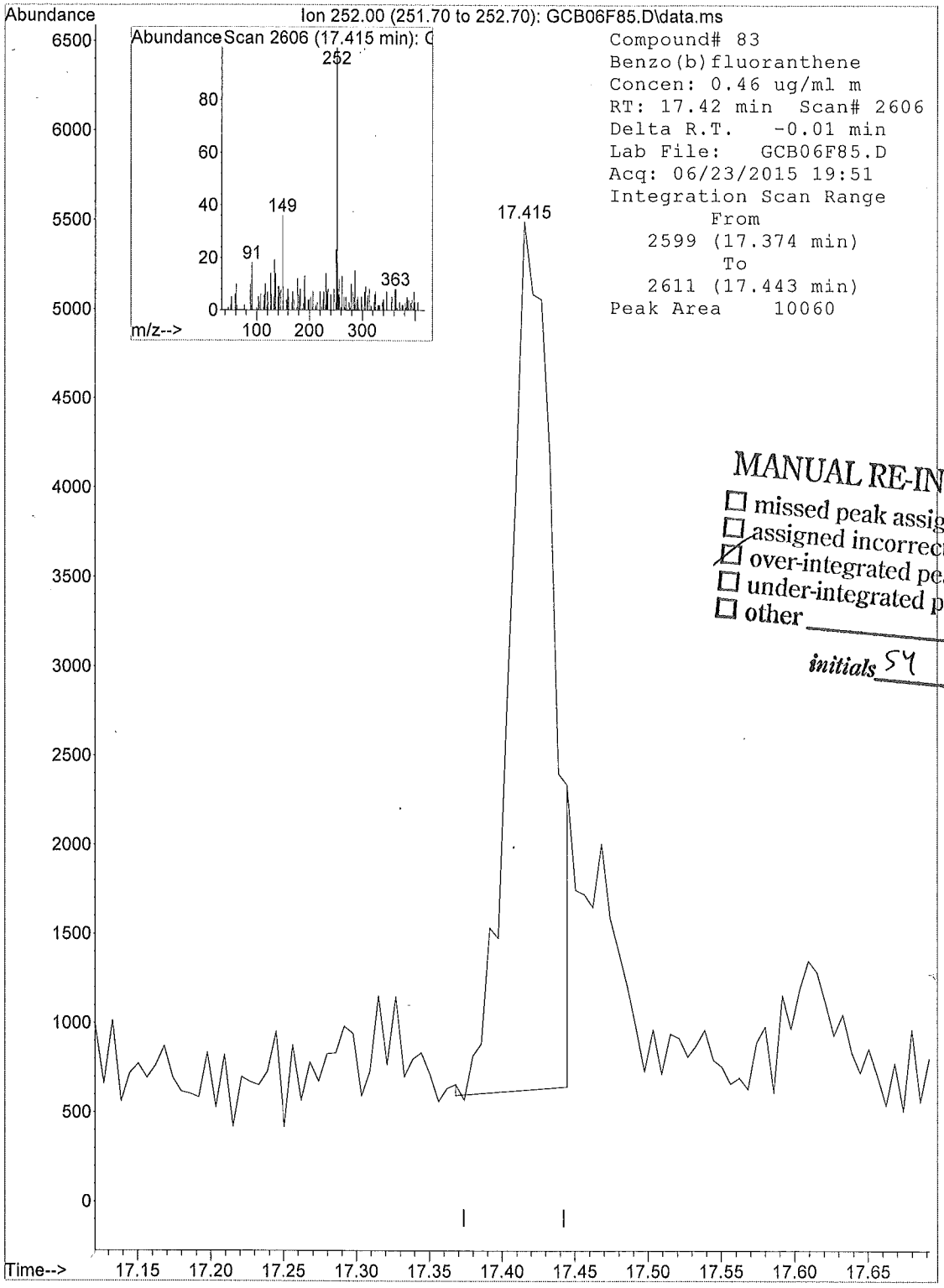
#83
Benzo(b)fluoranthene
Concen: 0.46 ug/ml m
RT: 17.42 min Scan# 2606
Delta R.T. -0.01 min
Lab File: GCB06F85.D
Acq: 06/23/2015 19:51

Tgt Ion:252 Resp: 10060

Ion	Ratio	Lower	Upper
252	100		
253	27.9	15.1	28.1
125	25.6	10.6	19.8#
0	0.0	0.0	0.0



M A N U A L I N T E G R A T I O N FOR Benzo(b)fluoranthene



MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☑ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 6/24/15

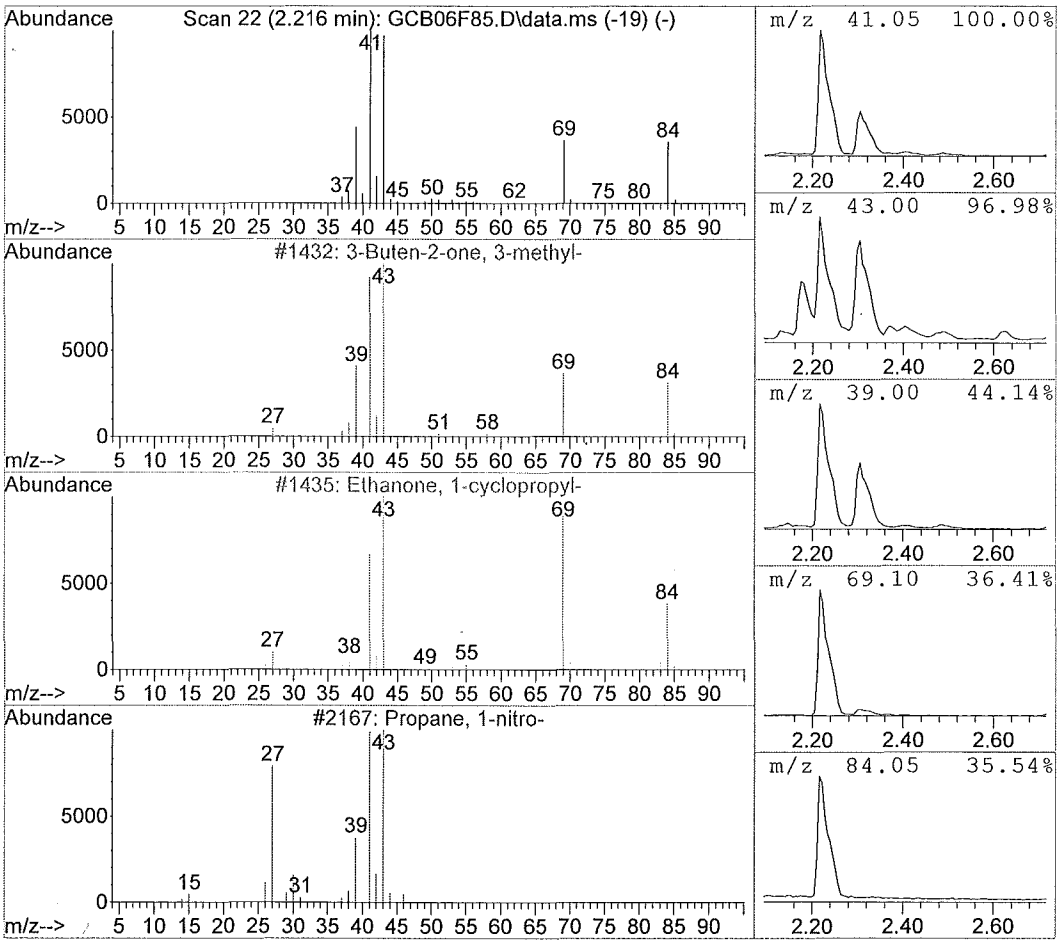
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.22	13.70 ug/ml	1187577	1,4-Dichlorobenzene-d4	1733080

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Buten-2-one, 3-methyl-	1432	000814-78-8	91.00
2	Ethanone, 1-cyclopropyl-	1435	000765-43-5	46.00
3	Propane, 1-nitro-	2167	000108-03-2	45.00
4	2-Butenal, (E)-	532	000123-73-9	40.00
5	(Z)-1,3-Butadien-1-ol	548	070415-58-6	33.00

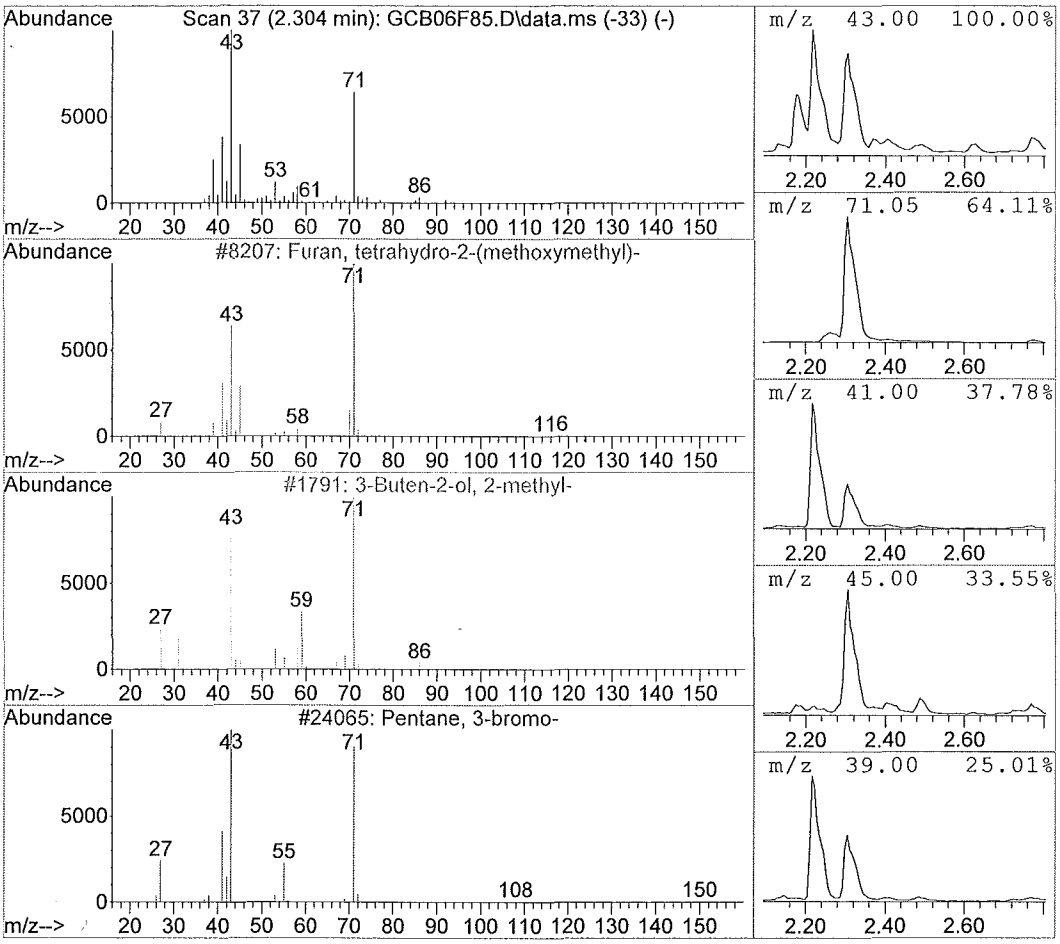


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.30	12.92 ug/ml	1119972	1,4-Dichlorobenzene-d4	1733080

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Furan, tetrahydro-2-(methoxymethyl)	8207	019354-27-9	78.00
2	3-Buten-2-ol, 2-methyl-	1791	000115-18-4	49.00
3	Pentane, 3-bromo-	24065	001809-10-5	47.00
4	Butanoyl chloride	5001	000141-75-3	47.00
5	2-Furanmethanol, tetrahydro-, aceta	20687	000637-64-9	47.00

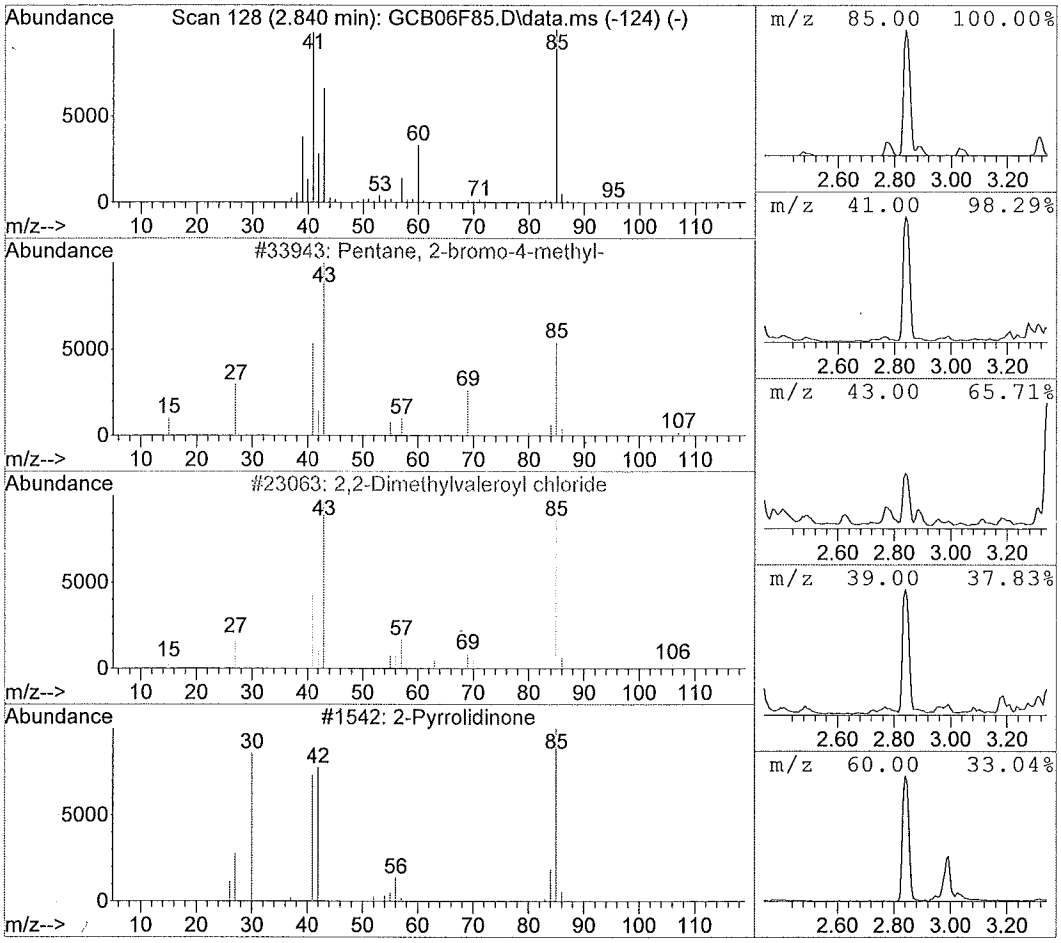


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.84	9.07 ug/ml	785826	1,4-Dichlorobenzene-d4	1733080

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentane, 2-bromo-4-methyl-	33943	030310-22-6	39.00
2	2,2-Dimethylvaleroyl chloride	23063	015721-22-9	33.00
3	2-Pyrrolidinone	1542	000616-45-5	33.00
4	Thiazole	1535	000288-47-1	25.00
5	(S)-(-)-1-Amino-2-(methoxymethyl)-p	13348	059983-39-0	23.00



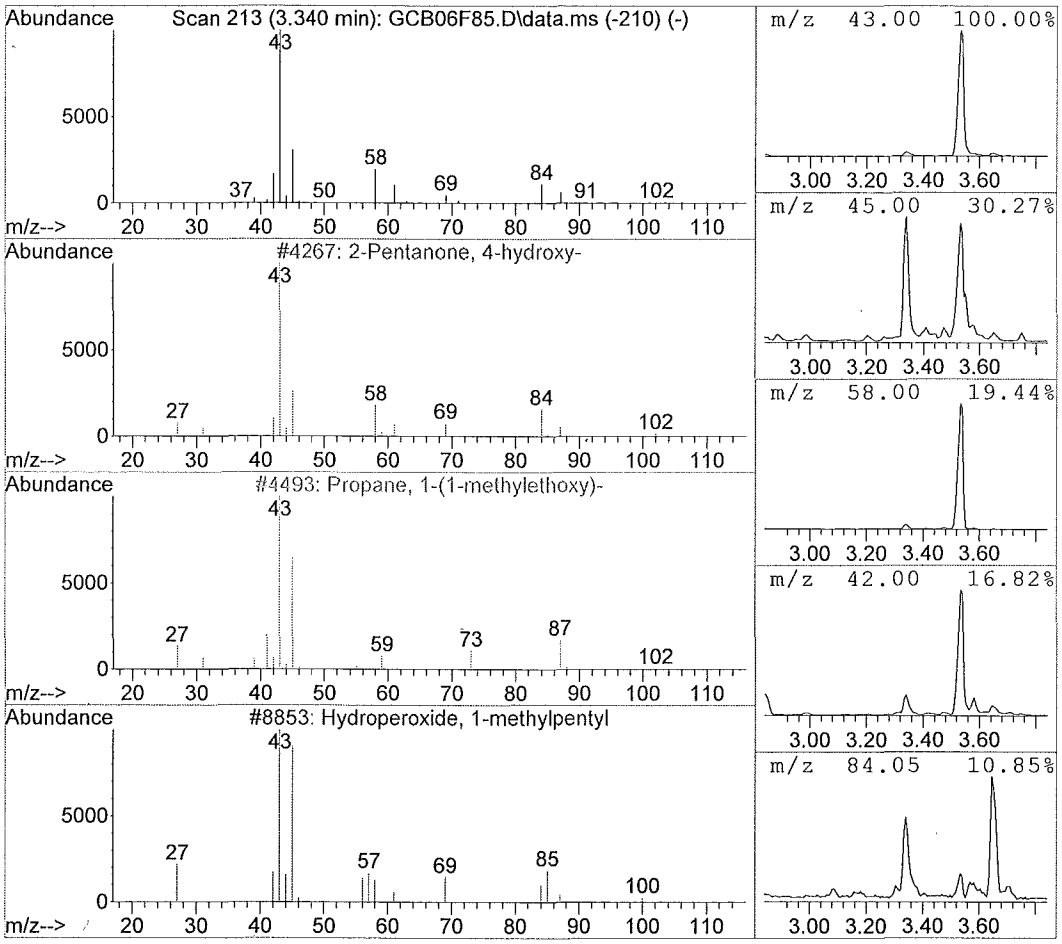
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.34	7.20 ug/ml	623851	1,4-Dichlorobenzene-d4	1733080

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	40.00
2	Propane, 1-(1-methylethoxy)-	4493	000627-08-7	9.00
3	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	9.00
4	Isopropyl acetate	4253	000108-21-4	9.00
5	1-Propanamine, N-nitro-	4644	000627-07-6	5.00



Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.47	2.90 ug/ml	251139	1,4-Dichlorobenzene-d4	1733080

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octane, 3-methyl-	12678	002216-33-3	59.00
2	Heptane, 2,5-dimethyl-	12701	002216-30-0	52.00
3	Decane, 2,6,6-trimethyl-	48891	062108-24-1	36.00
4	6-Oxa-bicyclo[3.1.0]hexan-3-ol	3723	025494-14-8	36.00
5	Heptane, 3,5-dimethyl-	12698	000926-82-9	32.00

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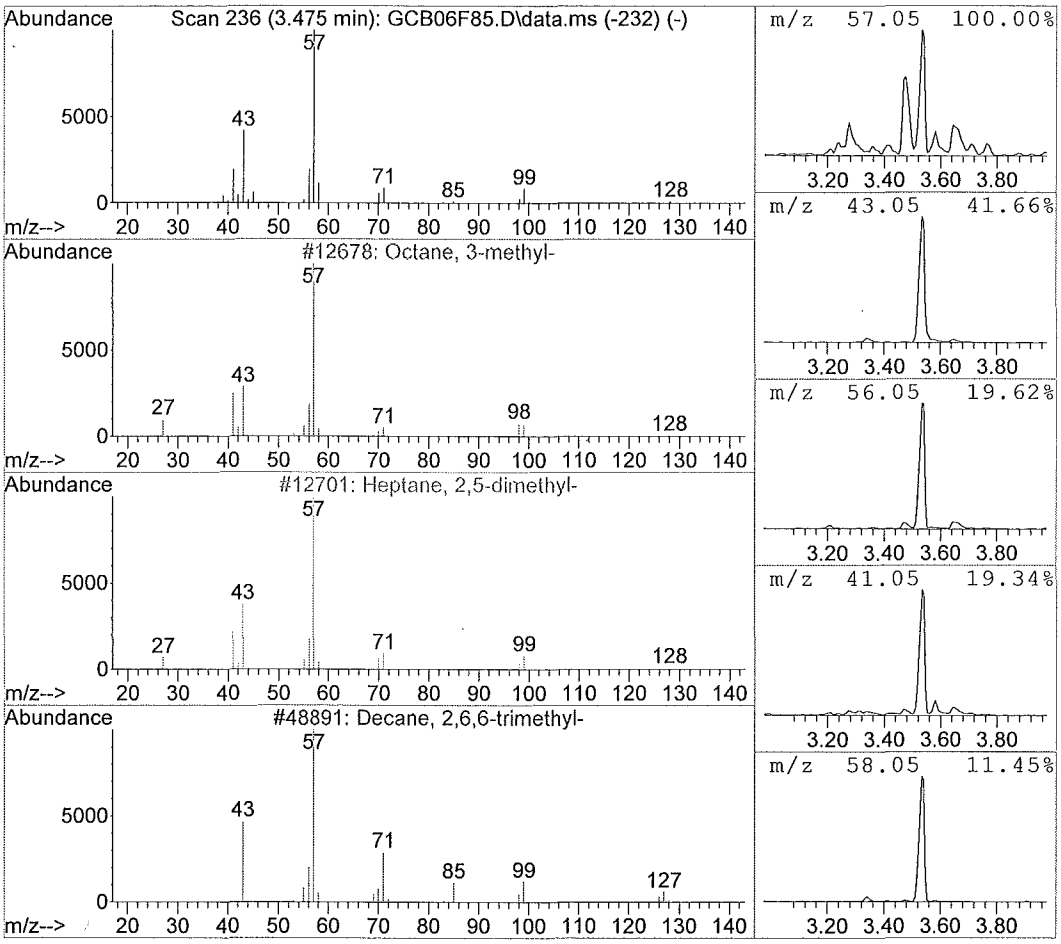
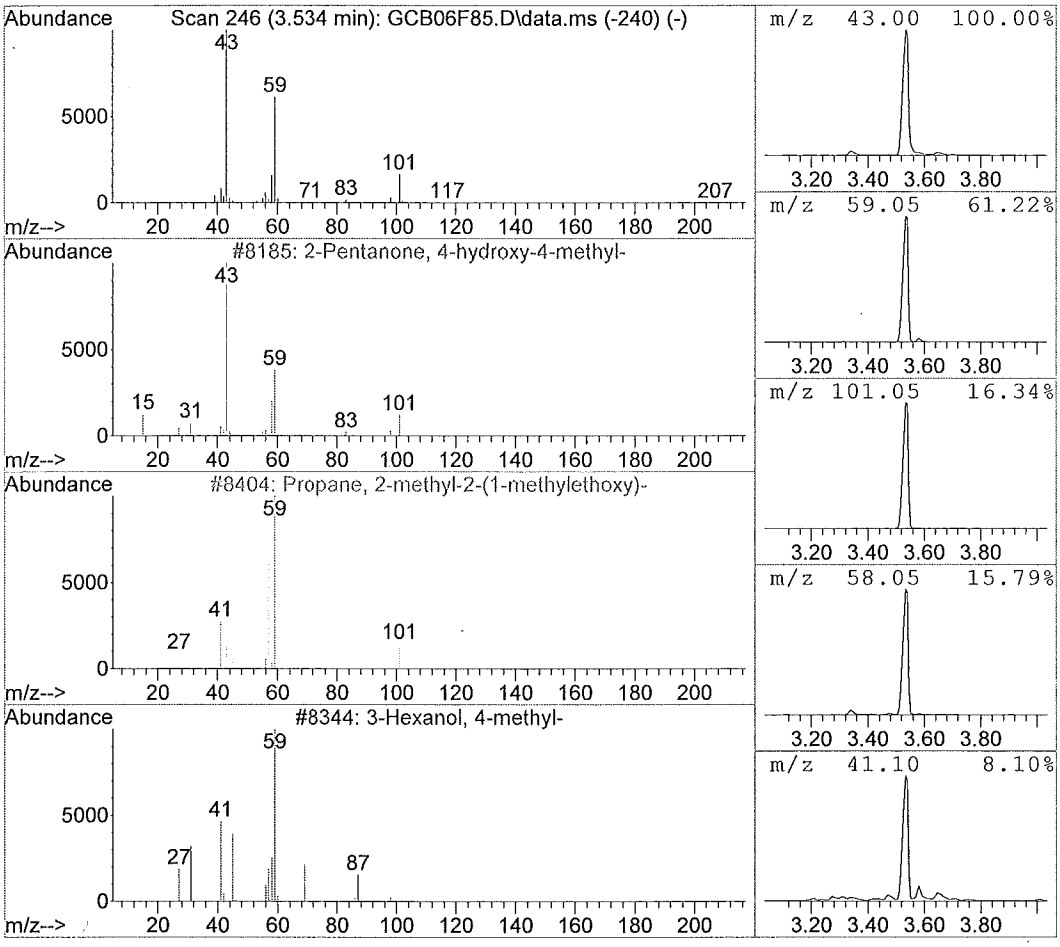


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.53	206.17 ug/ml	17865569	1,4-Dichlorobenzene-d4	1733080

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	38.00
2	Propane, 2-methyl-2-(1-methylethoxy	8404	017348-59-3	36.00
3	3-Hexanol, 4-methyl-	8344	000615-29-2	33.00
4	2-Hexanol, 2-methyl-	8346	000625-23-0	28.00
5	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	23.00

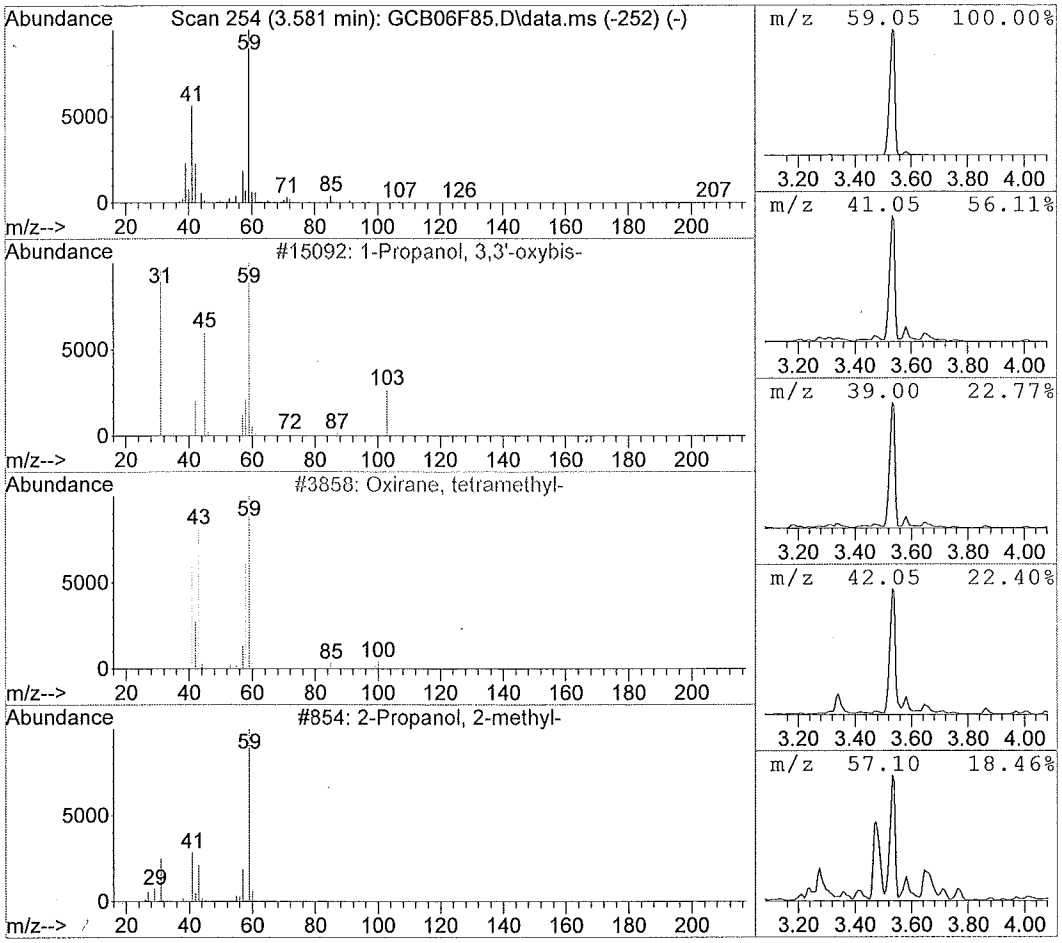


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.58	5.63 ug/ml	487760	1,4-Dichlorobenzene-d4	1733080

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Propanol, 3,3'-oxybis-	15092	002396-61-4	40.00
2	Oxirane, tetramethyl-	3858	005076-20-0	40.00
3	2-Propanol, 2-methyl-	854	000075-65-0	38.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	36.00
5	Acetaldoxime	243	000107-29-9	9.00



Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.65	5.87 ug/ml	508848	1,4-Dichlorobenzene-d4	1733080

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12683	003074-71-3	91.00
2	Decane, 5,6-dimethyl-	38347	001636-43-7	64.00
3	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	59.00
4	Hexane, 3-ethyl-	7622	000619-99-8	59.00
5	Hexane, 3-ethyl-2-methyl-	12730	016789-46-1	53.00

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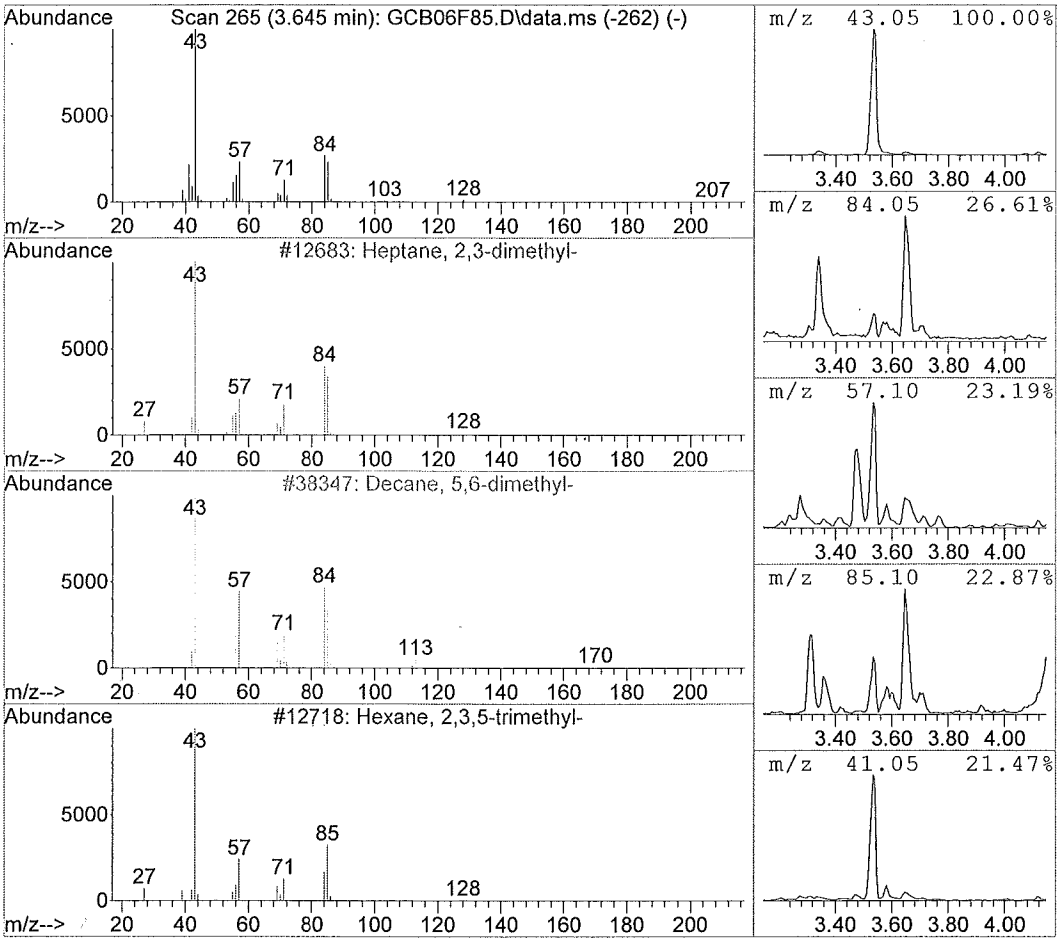
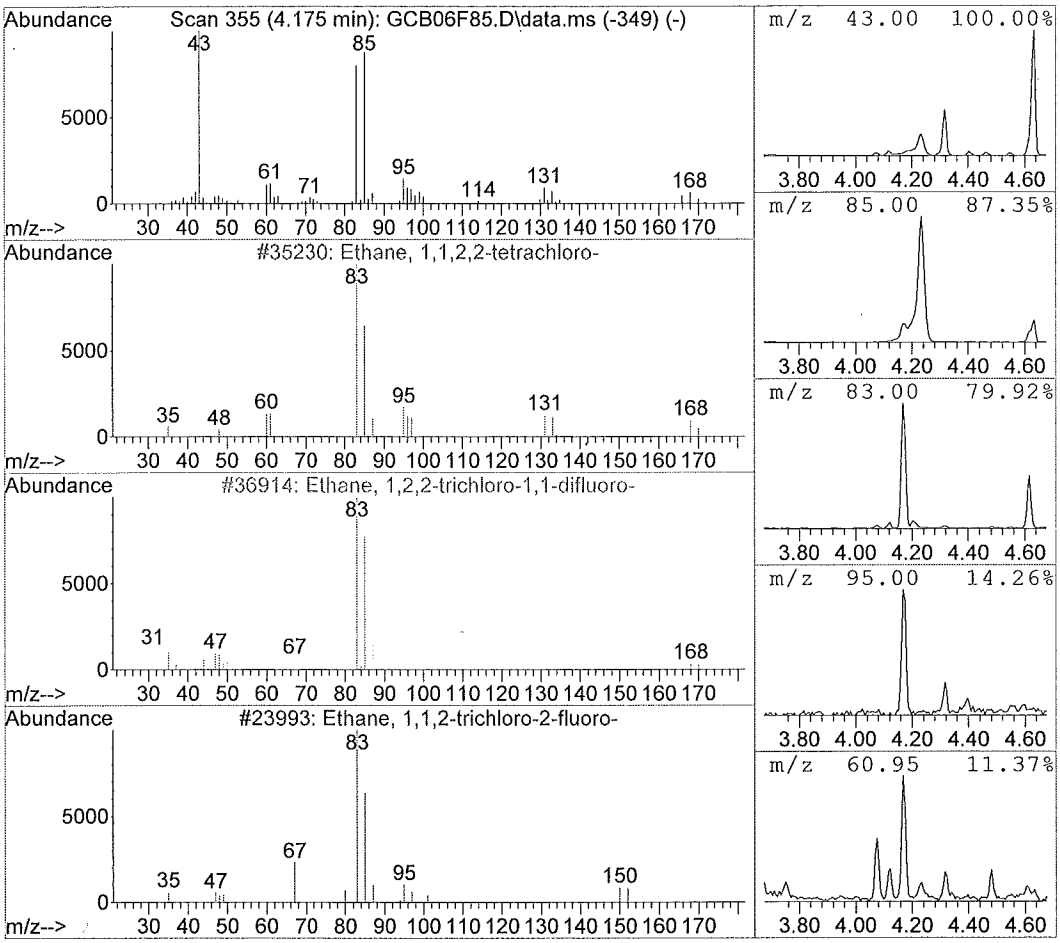


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.17	6.54 ug/ml	566912	1,4-Dichlorobenzene-d4	1733080

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro- VOA	35230	000079-34-5	93.00
2	Ethane, 1,2,2-trichloro-1,1-difluor	36914	000354-21-2	45.00
3	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	32.00
4	Ethane, 2,2-dichloro-1,1,1-trifluor	25465	000306-83-2	23.00
5	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	23.00



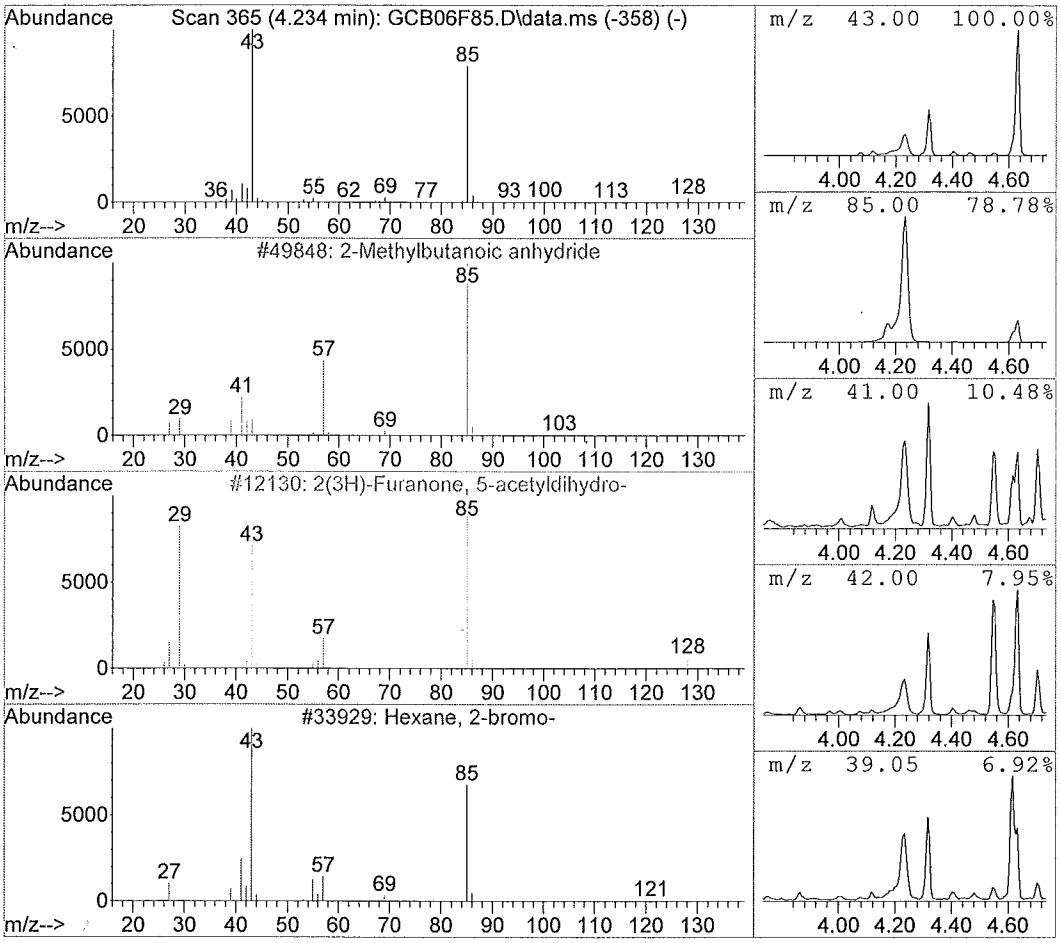
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.23	27.85 ug/ml	2412881	1,4-Dichlorobenzene-d4	1733080

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Methylbutanoic anhydride	49848	001468-39-9	50.00
2	2(3H)-Furanone, 5-acetyldihydro-	12130	029393-32-6	50.00
3	Hexane, 2-bromo-	33929	003377-86-4	43.00
4	2-Pyrrolidinone	1543	000616-45-5	9.00
5	2(3H)-Furanone, dihydro-5-propyl-	12282	000105-21-5	9.00

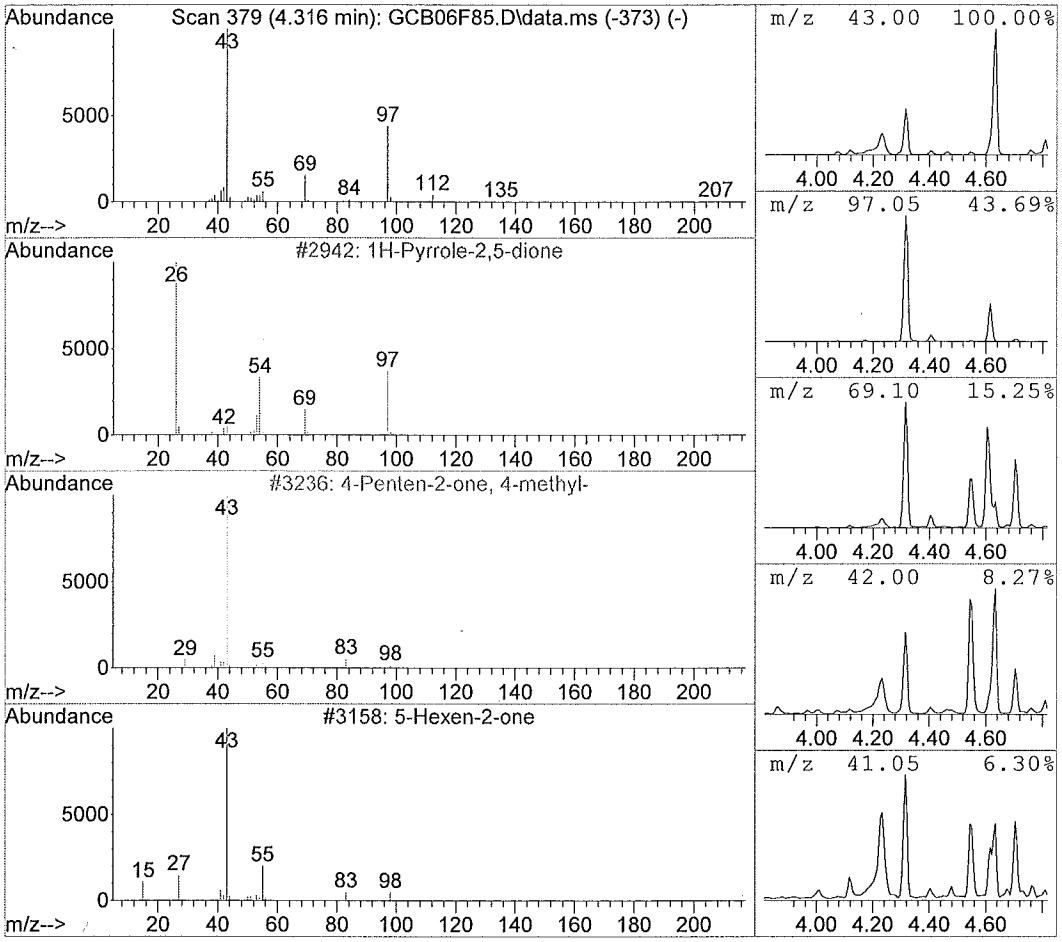


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.32	30.27 ug/ml	2623044	1,4-Dichlorobenzene-d4	1733080

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	40.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	5-Hexen-2-one	3158	000109-49-9	9.00
4	1-Butene-1,4-diol, diacetate	40122	054484-67-2	9.00
5	2-Vinylethyl acetate	7191	001576-84-7	9.00



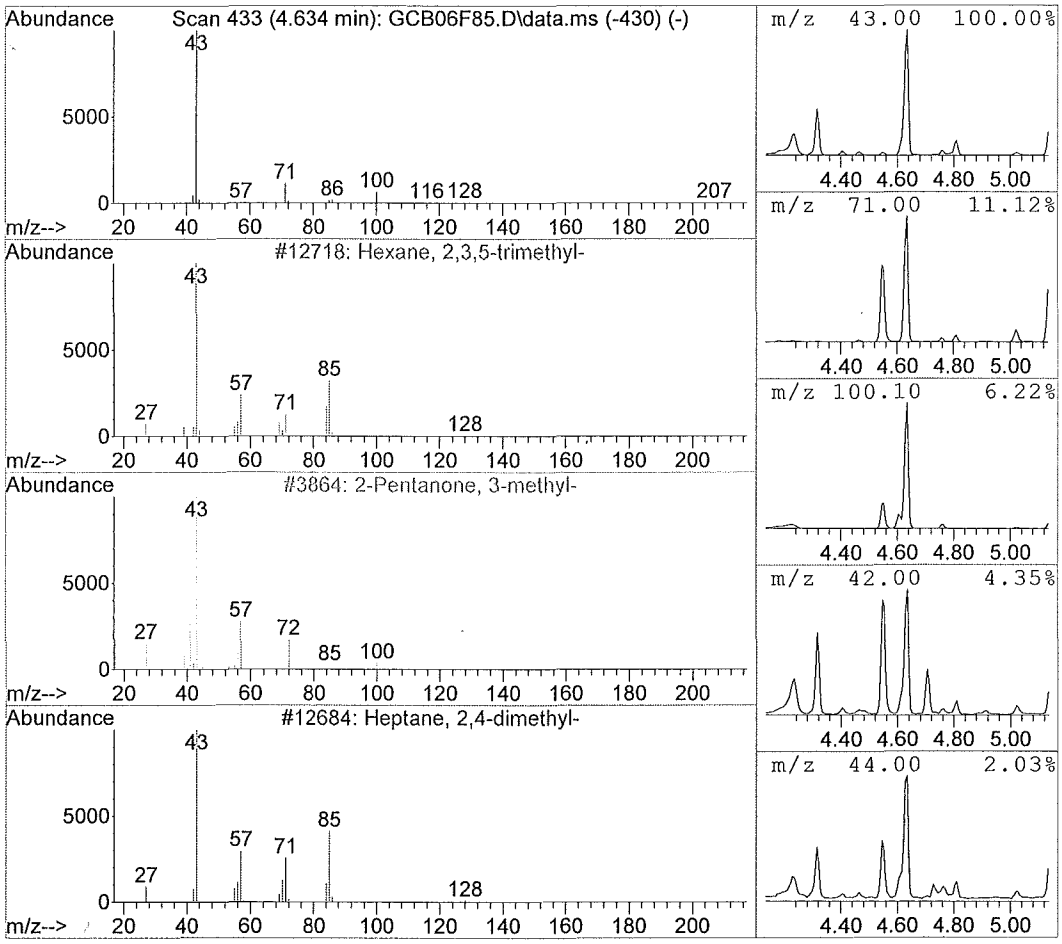
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.63	52.19 ug/ml	4522794	1,4-Dichlorobenzene-d4	1733080

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
2	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
3	Heptane, 2,4-dimethyl-	12684	002213-23-2	5.00
4	3-Hexanone	3776	000589-38-8	5.00
5	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00



Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.81	6.78 ug/ml	587354	1,4-Dichlorobenzene-d4	1733080

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	5.00
2	Butane, 2,3-dimethyl-	1832	000079-29-8	4.00
3	Pent-3-enylamine	1569	087156-70-5	3.00
4	Octane, 4-methyl-	12674	002216-34-4	3.00
5	Octane, 2-methyl-	12672	003221-61-2	3.00

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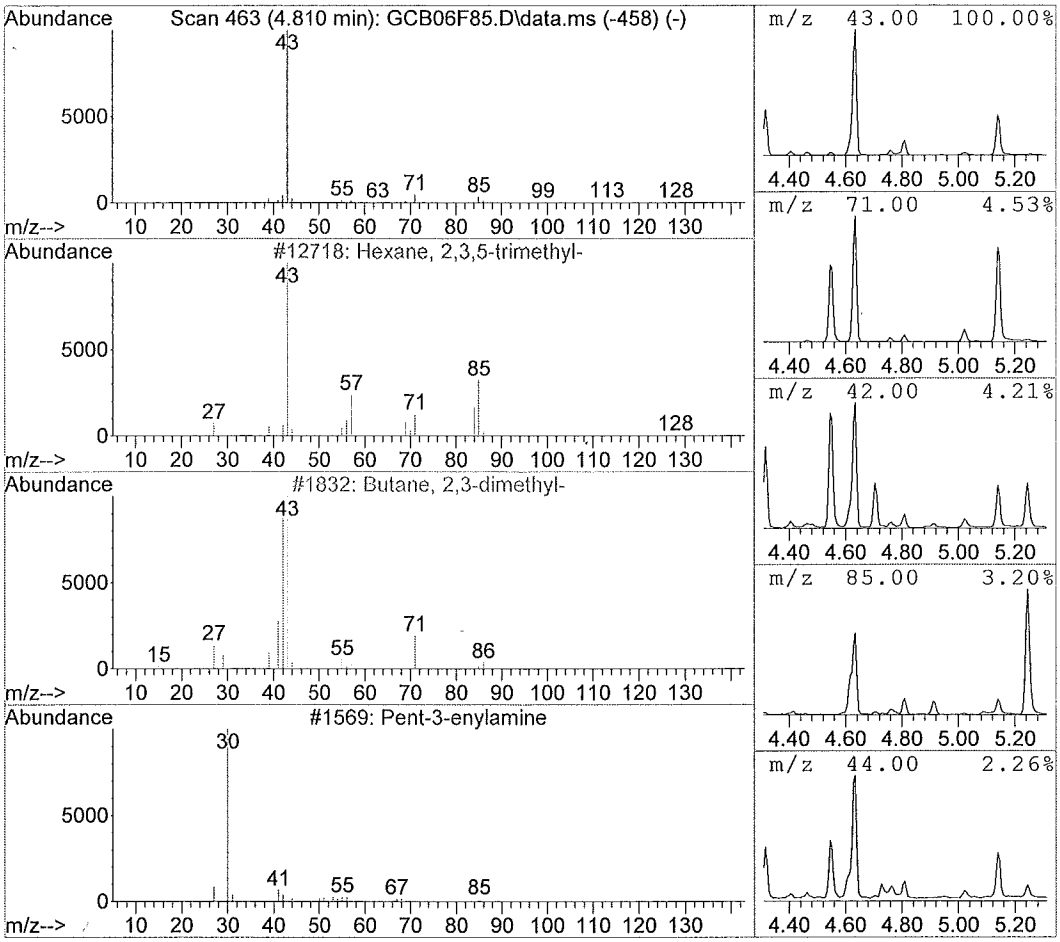
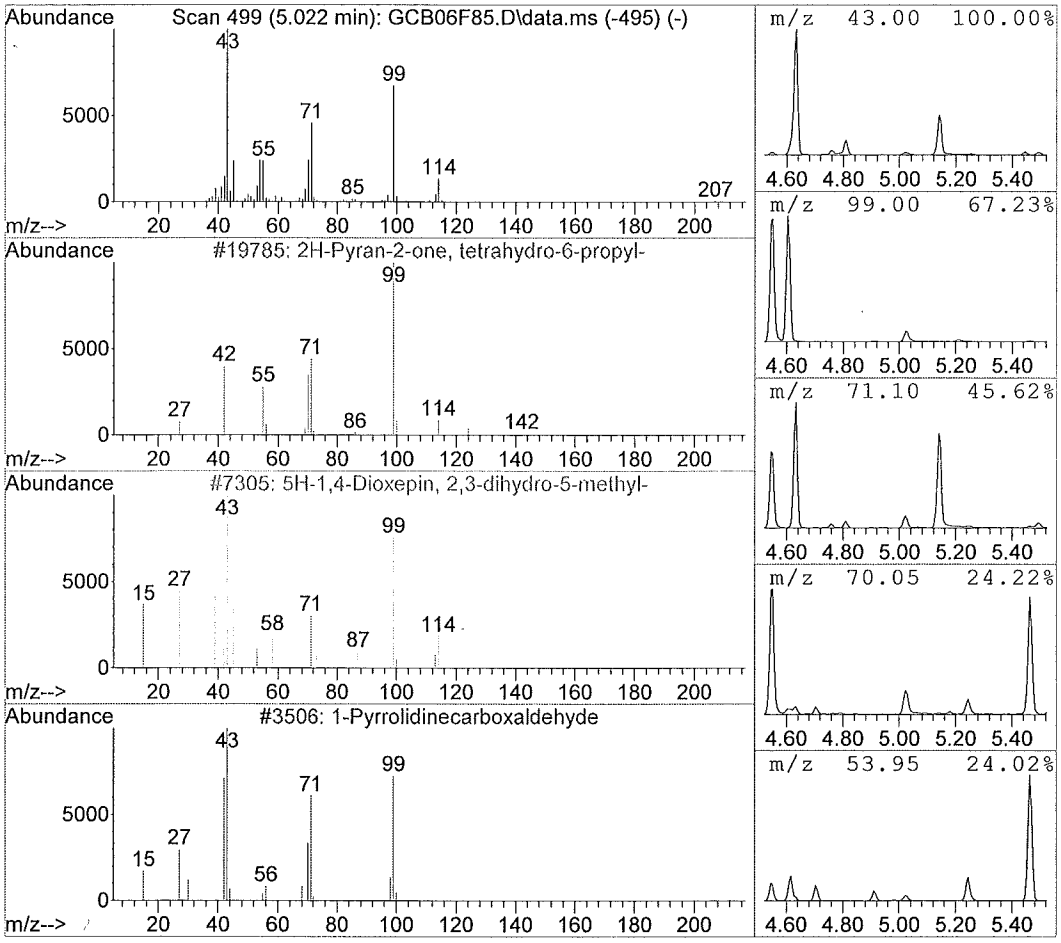


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.02	5.16 ug/ml	446834	1,4-Dichlorobenzene-d4	1733080

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2H-Pyran-2-one, tetrahydro-6-propyl	19785	000698-76-0	47.00
2	5H-1,4-Dioxepin, 2,3-dihydro-5-meth	7305	038653-36-0	46.00
3	1-Pyrrolidinecarboxaldehyde	3506	003760-54-1	43.00
4	2,3-Octanedione	19631	000585-25-1	38.00
5	2H-Pyran-2-one, 6-hexyltetrahydro-	48502	000710-04-3	37.00



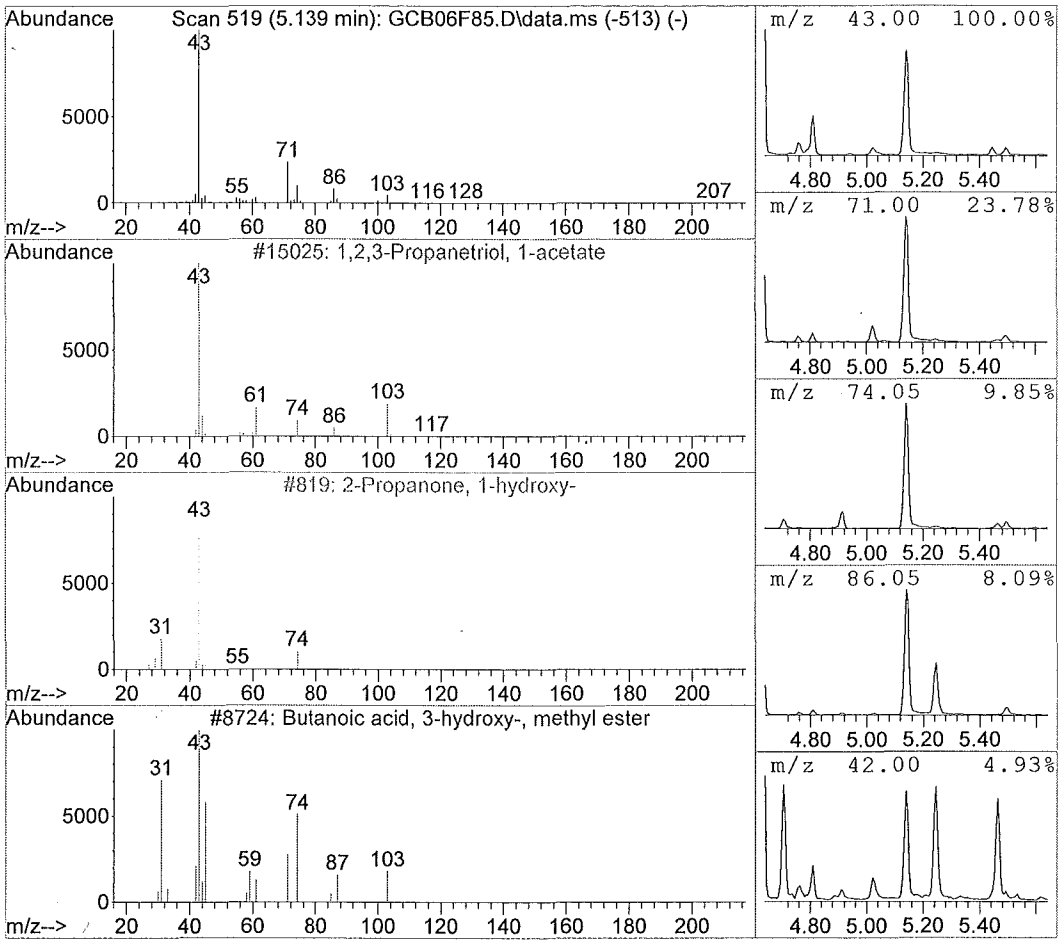
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.14	25.81 ug/ml	2236559	1,4-Dichlorobenzene-d4	1733080

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	32.00
2	2-Propanone, 1-hydroxy-	819	000116-09-6	27.00
3	Butanoic acid, 3-hydroxy-, methyl e	8724	001487-49-6	10.00
4	2,3-Butanedione	1661	000431-03-8	9.00
5	3,3-Dimethyl-2,4-pentane dione	12258	003142-58-3	9.00

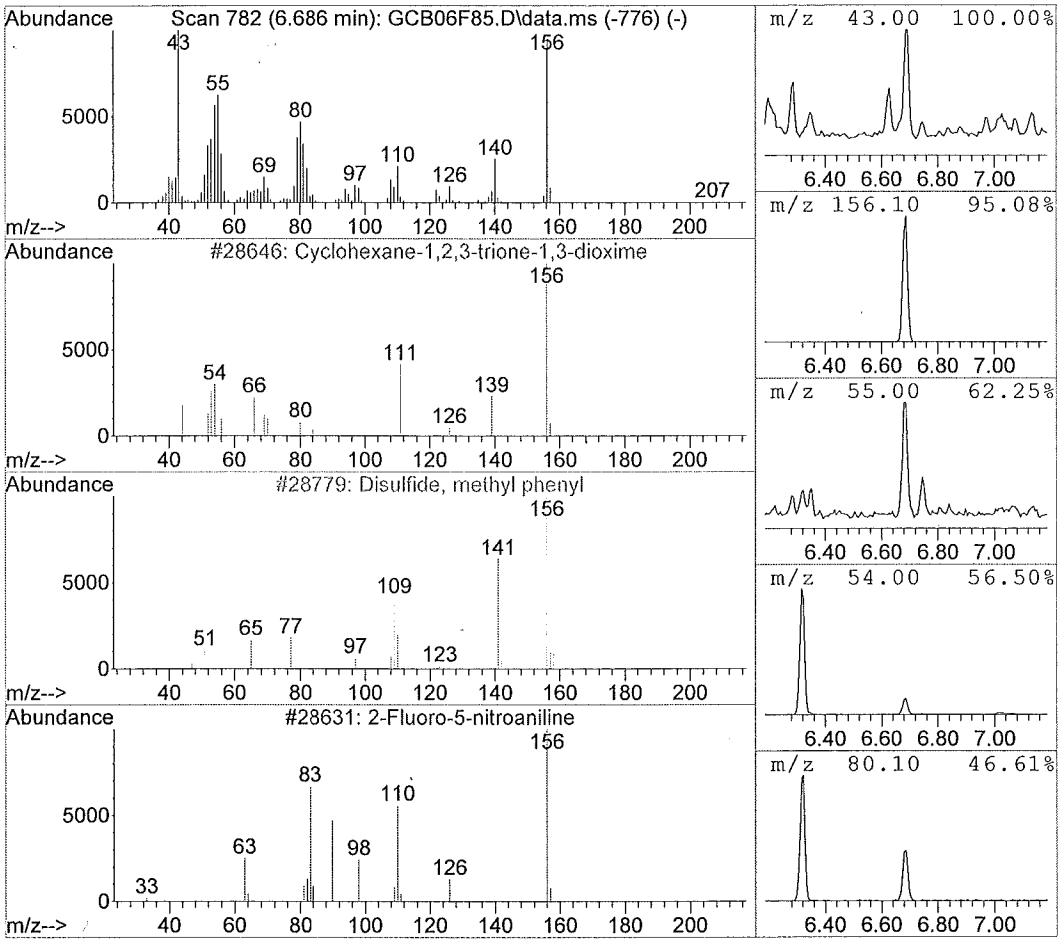


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.69	2.78 ug/ml	293753	Naphthalene-d8	2112041

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane-1,2,3-trione-1,3-dioxim	28646	010528-54-8	27.00
2	Disulfide, methyl phenyl	28779	014173-25-2	22.00
3	2-Fluoro-5-nitroaniline	28631	000369-36-8	22.00
4	Pyrazole-3-carboxamide, 4-nitro-	28554	065190-36-5	18.00
5	Propanenitrile, 3,3'-thiobis-	18255	000111-97-7	16.00

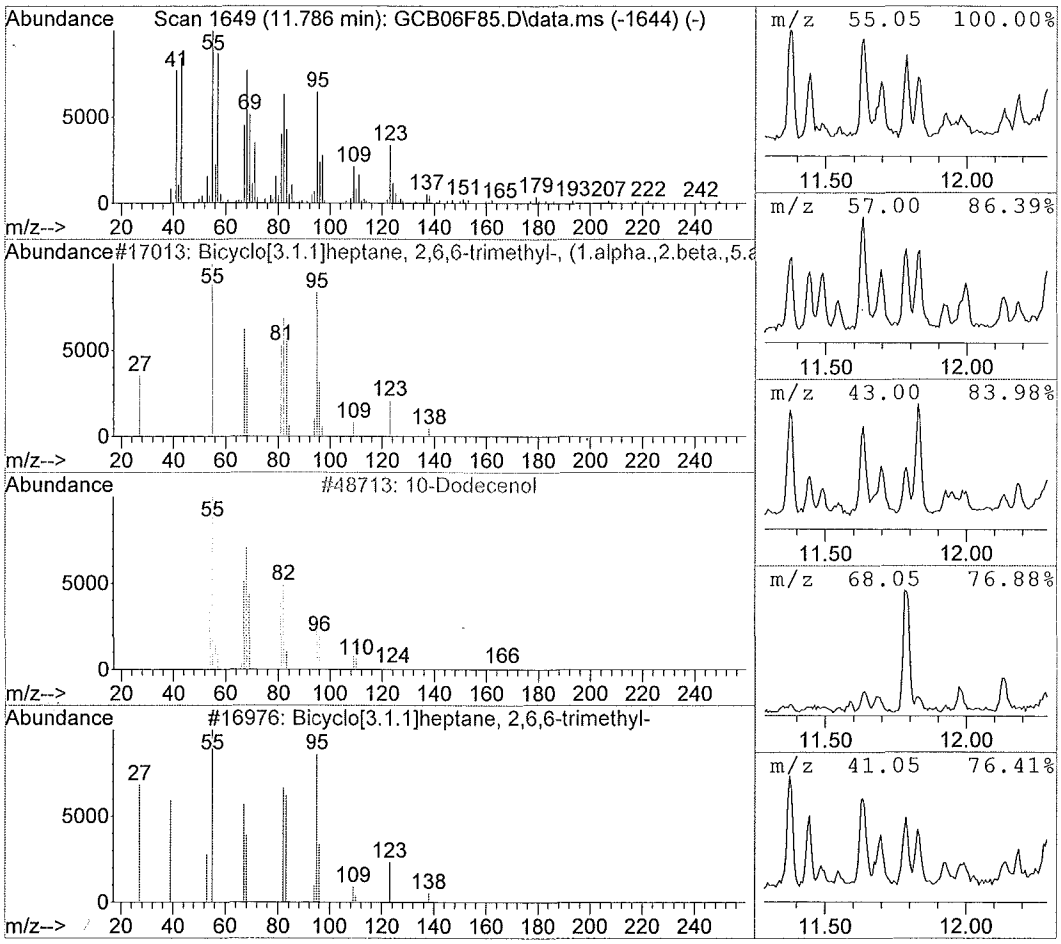


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.79	2.01 ug/ml	259354	Phenanthrene-d10	2584611

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Bicyclo[3.1.1]heptane, 2,6,6-trimet	17013	006876-13-7	91.00
2	10-Dodecenol CA	48713	035237-63-9	50.00
3	Bicyclo[3.1.1]heptane, 2,6,6-trimet	16976	000473-55-2	49.00
4	4-Tridecen-1-ol, acetate, (E)-	94143	072269-48-8	47.00
5	Bicyclo[3.1.1]heptane, 2,6,6-trimet	17016	004795-86-2	43.00

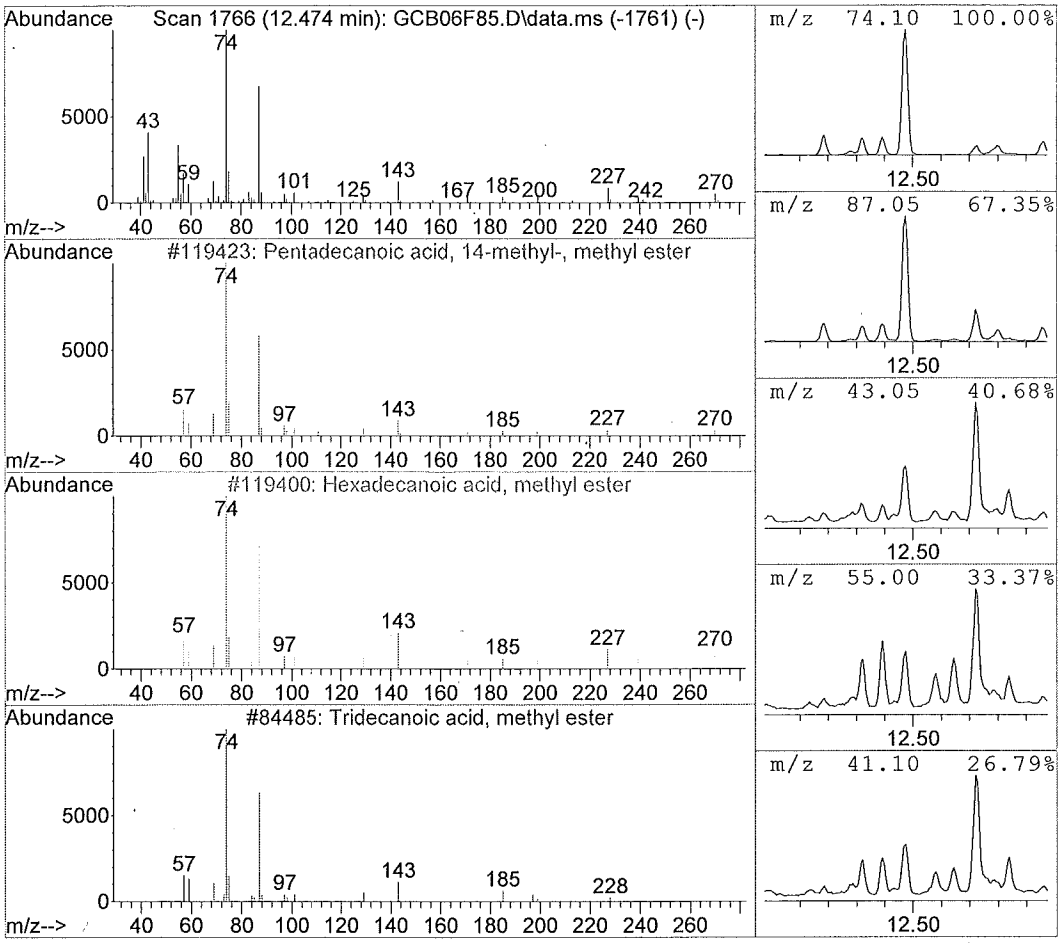


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.47	6.34 ug/ml	819955	Phenanthrene-d10	2584611

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	98.00
2	Hexadecanoic acid, methyl ester	119400	000112-39-0	97.00
3	Tridecanoic acid, methyl ester	84485	001731-88-0	95.00
4	Methyl tetradecanoate	95861	000124-10-7	90.00
5	Pentadecanoic acid, methyl ester	107596	007132-64-1	90.00

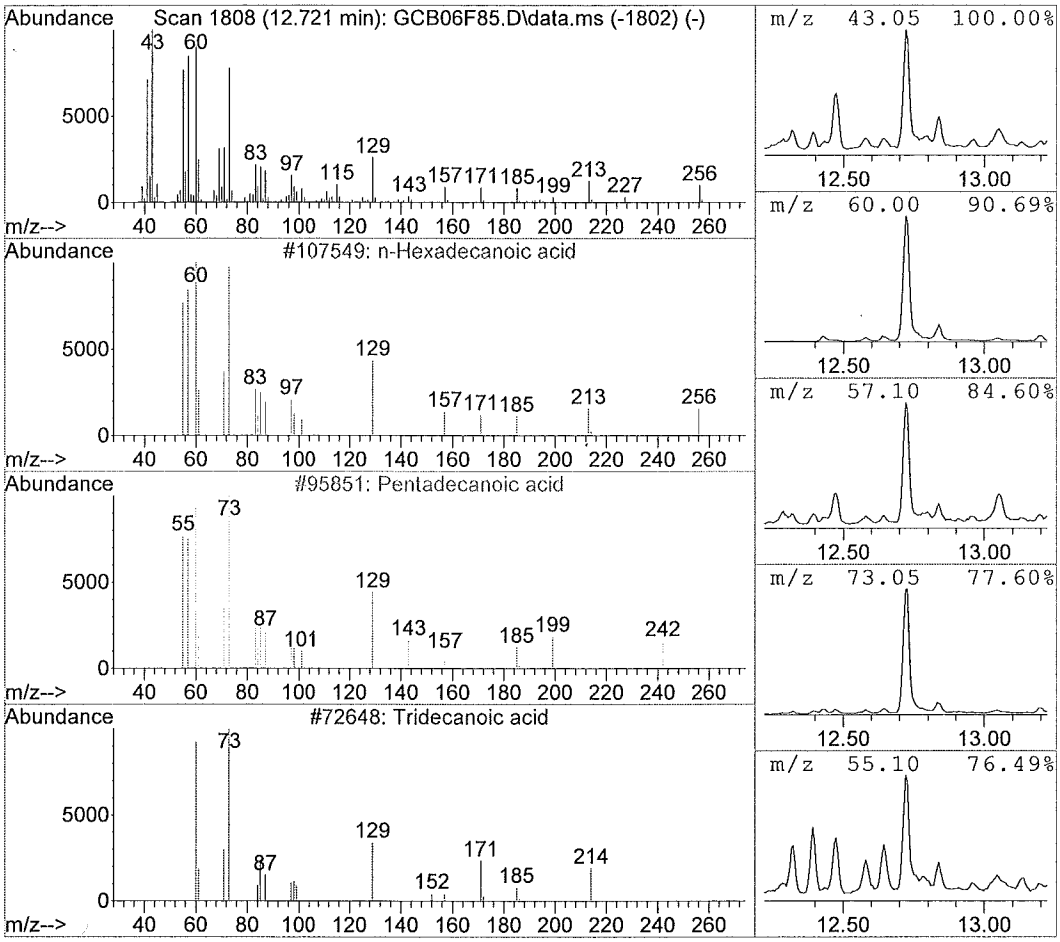


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.72	13.81 ug/ml	1785152	Phenanthrene-d10	2584611

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Pentadecanoic acid	95851	001002-84-2	86.00
3	Tridecanoic acid	72648	000638-53-9	64.00
4	Undecanoic acid	50051	000112-37-8	64.00
5	Dodecanoic acid	61121	000143-07-7	59.00

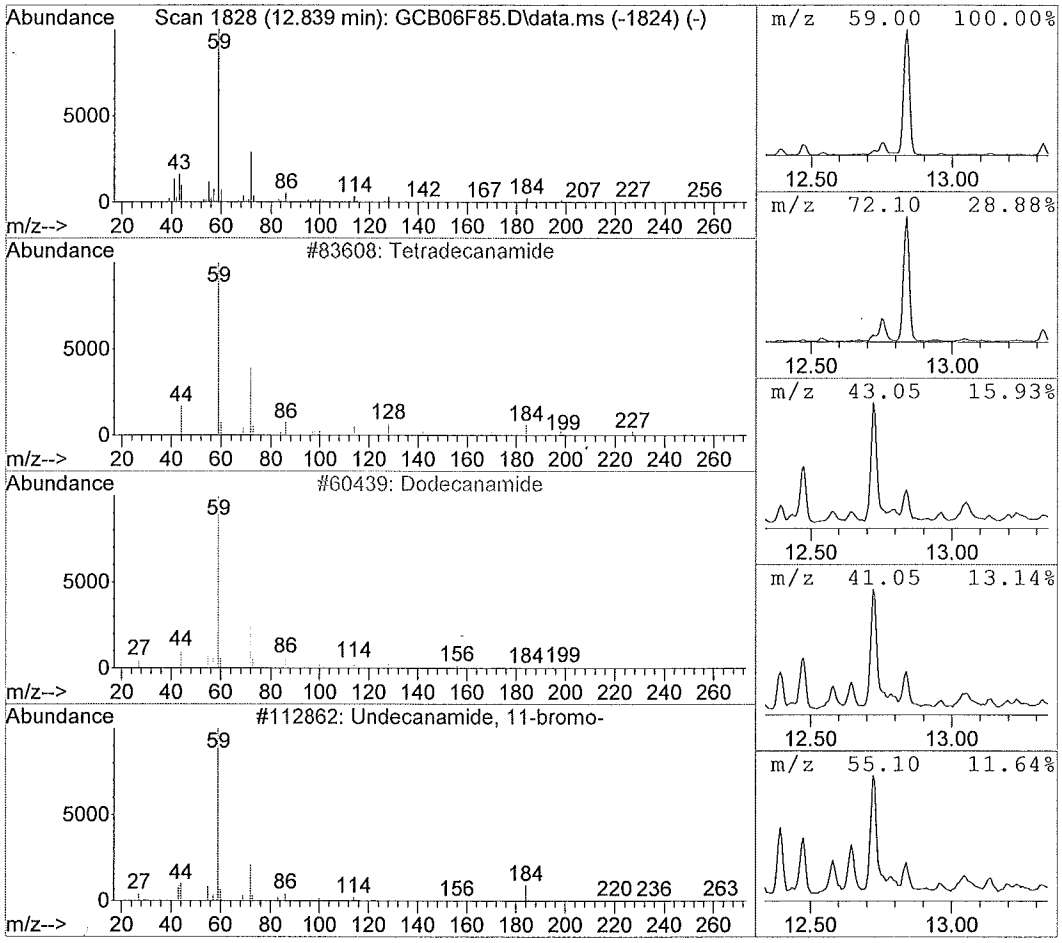


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.84	4.30 ug/ml	555352	Phenanthrene-d10	2584611

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83608	000638-58-4	87.00
2	Dodecanamide	60439	001120-16-7	83.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
4	Nonanamide	29478	001120-07-6	83.00
5	Hexadecanamide	106565	000629-54-9	80.00



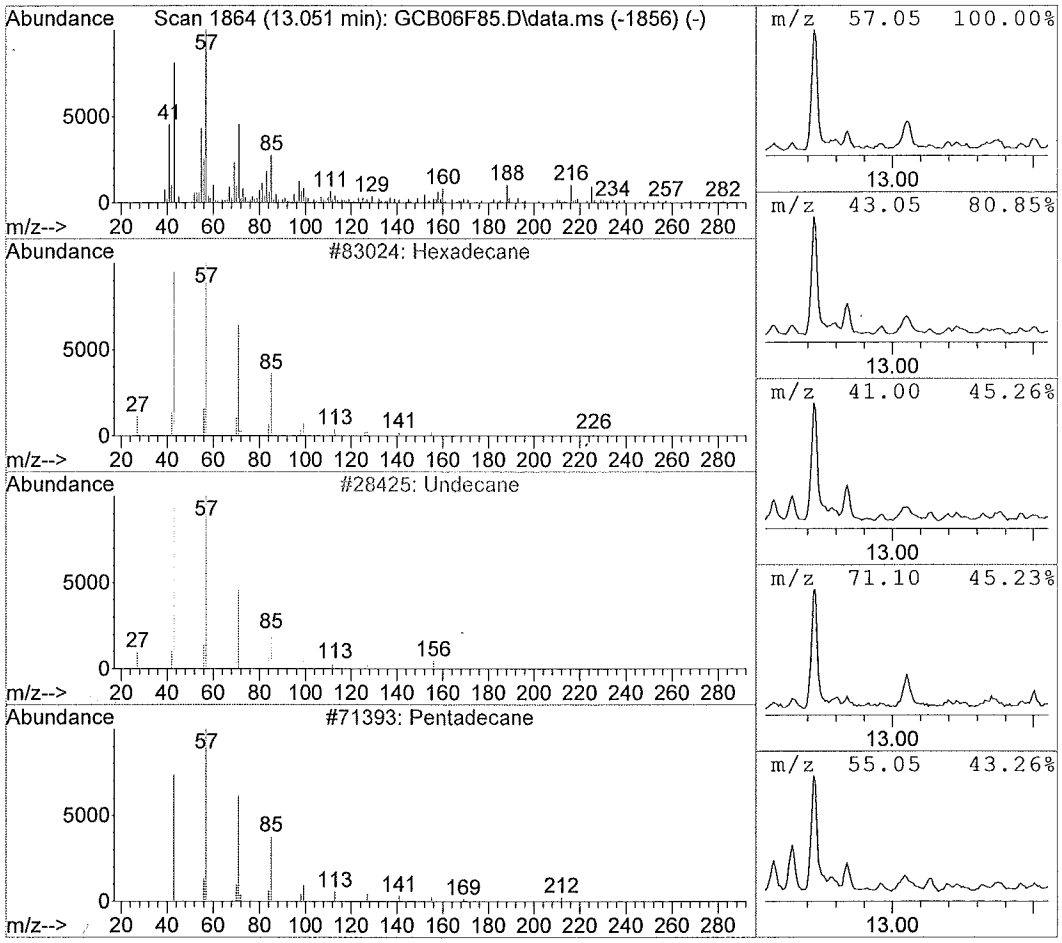
Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.05	3.49 ug/ml	450530	Phenanthrene-d10	2584611

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane	83024	000544-76-3	90.00
2	Undecane	28425	001120-21-4	60.00
3	Pentadecane	71393	000629-62-9	60.00
4	Tetradecane, 1-chloro-	87667	002425-54-9	60.00
5	Tridecane	48835	000629-50-5	55.00

SA

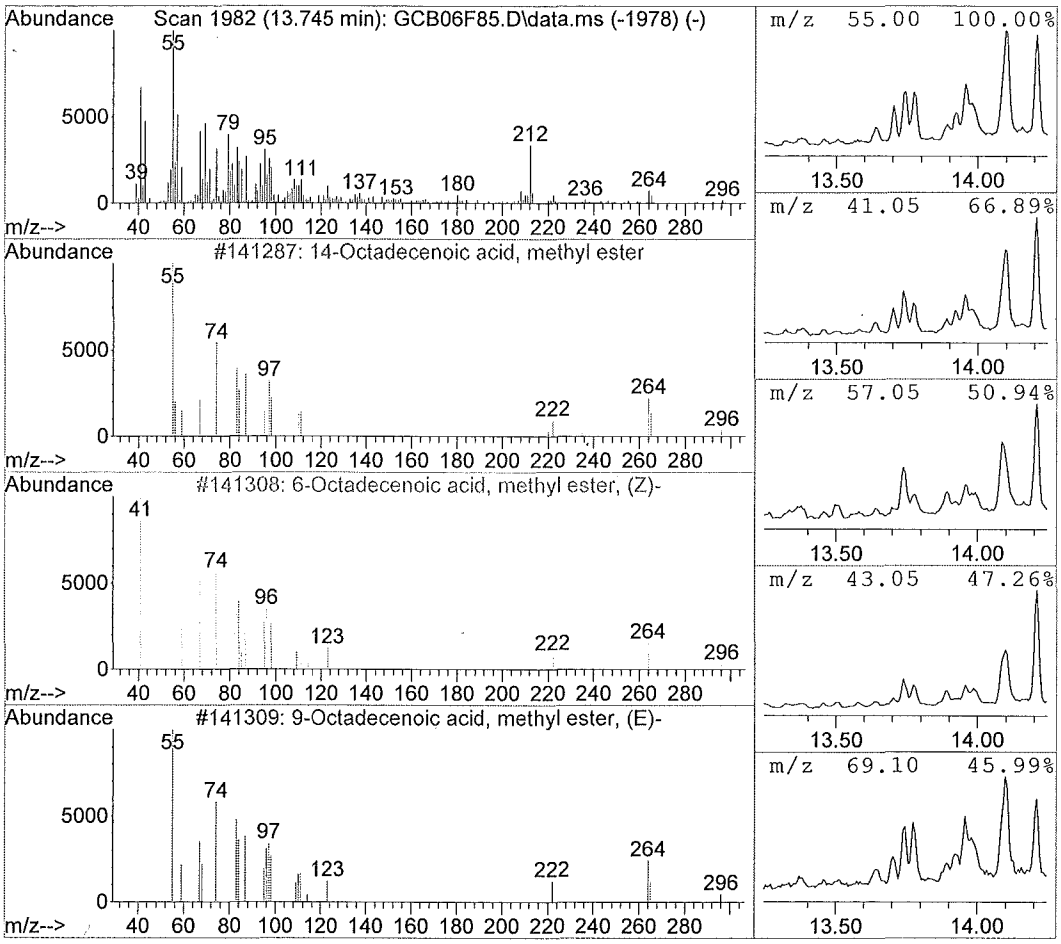


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.74	6.15 ug/ml	668643	Chrysene-d12	2173972

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	14-Octadecenoic acid, methyl ester	141287	056554-48-4	83.00
2	6-Octadecenoic acid, methyl ester,	141308	002777-58-4	83.00
3	9-Octadecenoic acid, methyl ester,	141309	001937-62-8	81.00
4	9-Octadecenoic acid (Z)-, methyl es	141302	000112-62-9	81.00
5	12-Octadecenoic acid, methyl ester	141284	056554-46-2	78.00



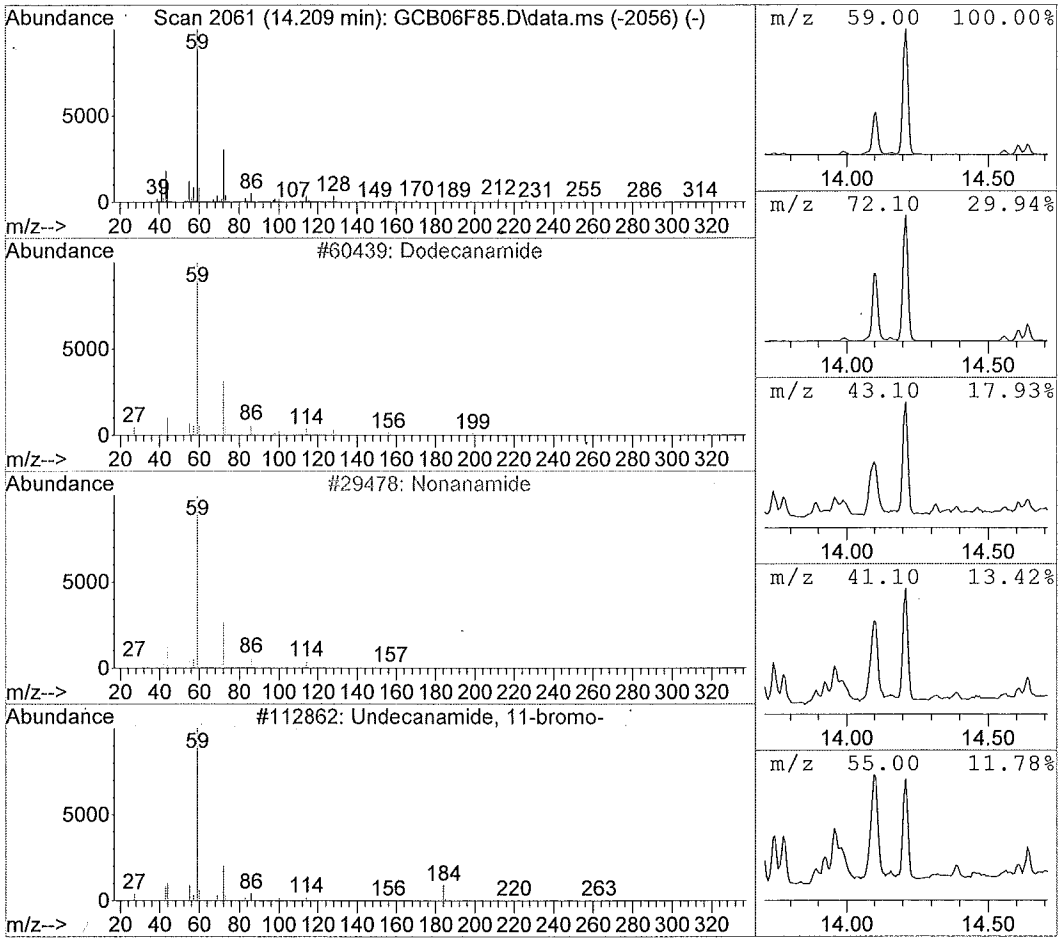
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.21	17.86 ug/ml	1940991	Chrysene-d12	2173972

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Nonanamide	29478	001120-07-6	83.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
4	Tetradecanamide	83609	000638-58-4	83.00
5	Pentanamide	4064	000626-97-1	59.00

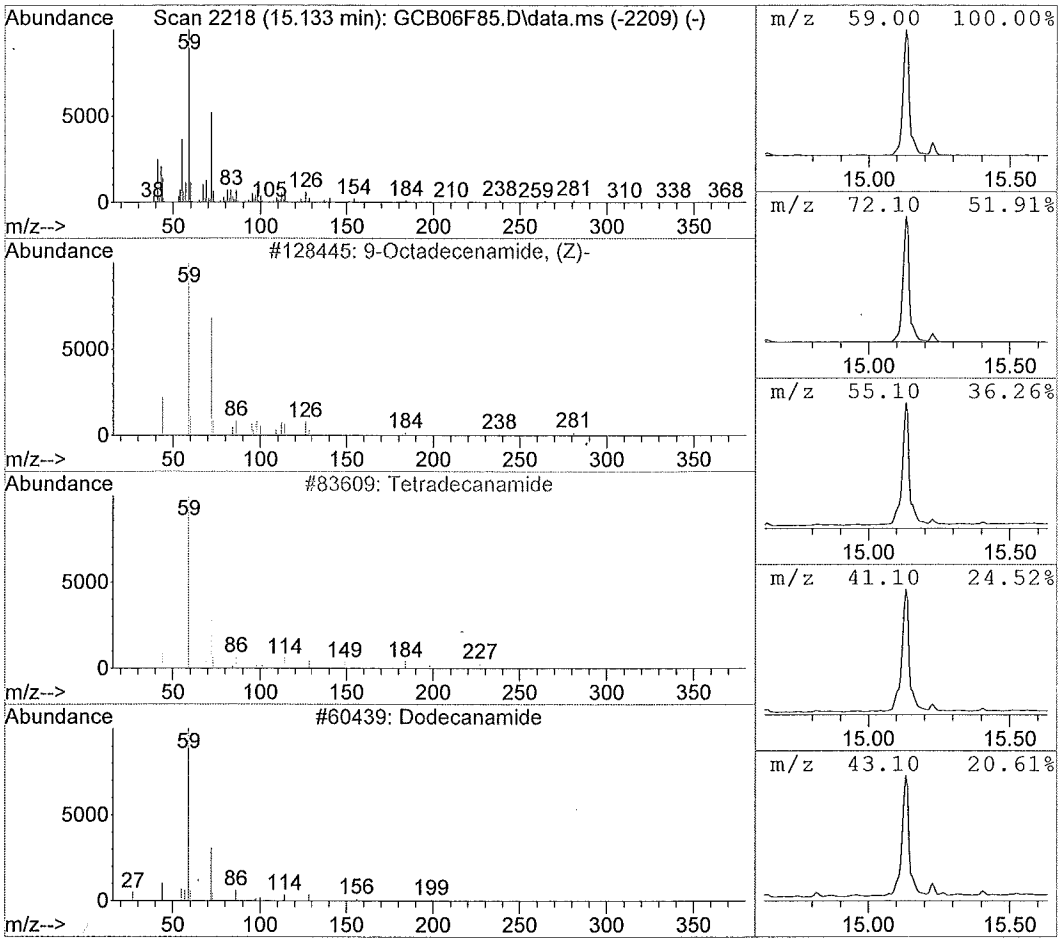


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.13	180.03 ug/ml	19569126	Chrysene-d12	2173972

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	95.00
2	Tetradecanamide	83609	000638-58-4	72.00
3	Dodecanamide	60439	001120-16-7	59.00
4	Hexadecanamide	106565	000629-54-9	56.00
5	Octanamide	20317	000629-01-6	56.00

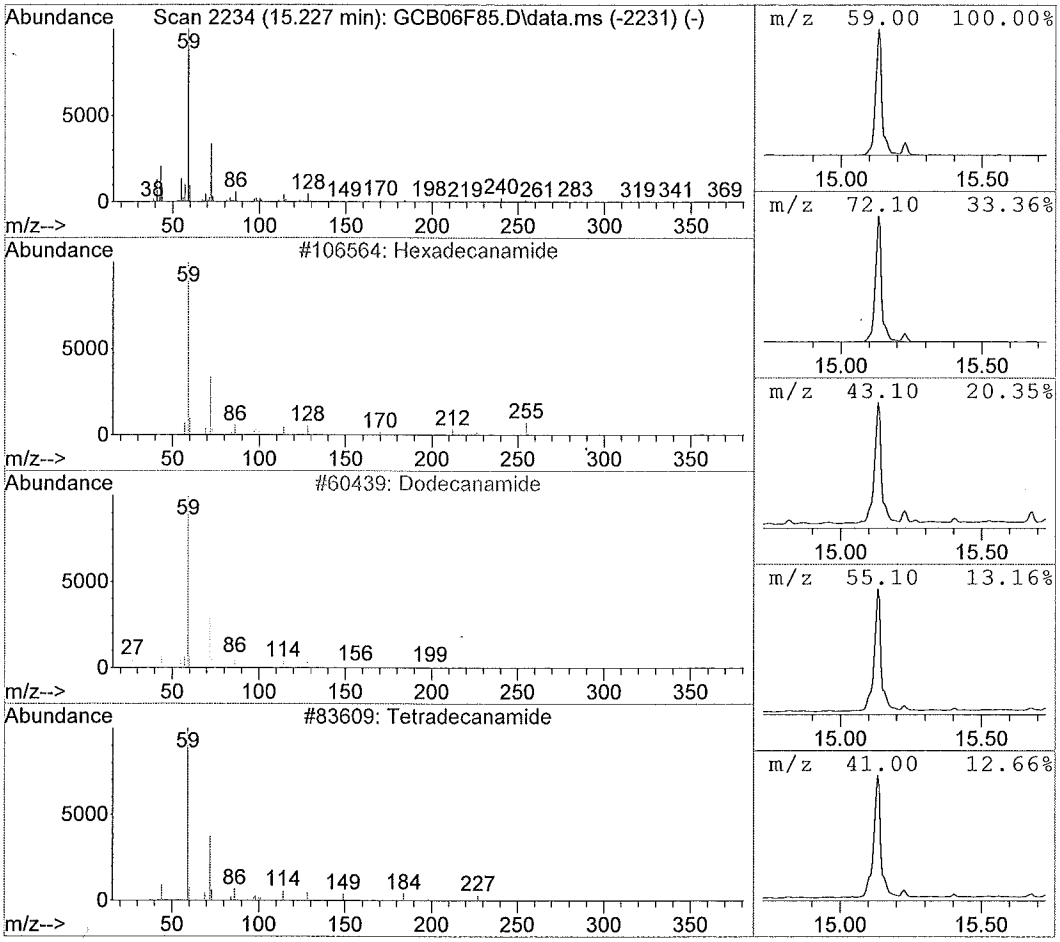


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.23	6.26 ug/ml	680751	Chrysene-d12	2173972

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	83.00
2	Dodecanamide	60439	001120-16-7	83.00
3	Tetradecanamide	83609	000638-58-4	80.00
4	Nonanamide	29478	001120-07-6	64.00
5	Pentanamide	4062	000626-97-1	59.00



Library Search Compound Report

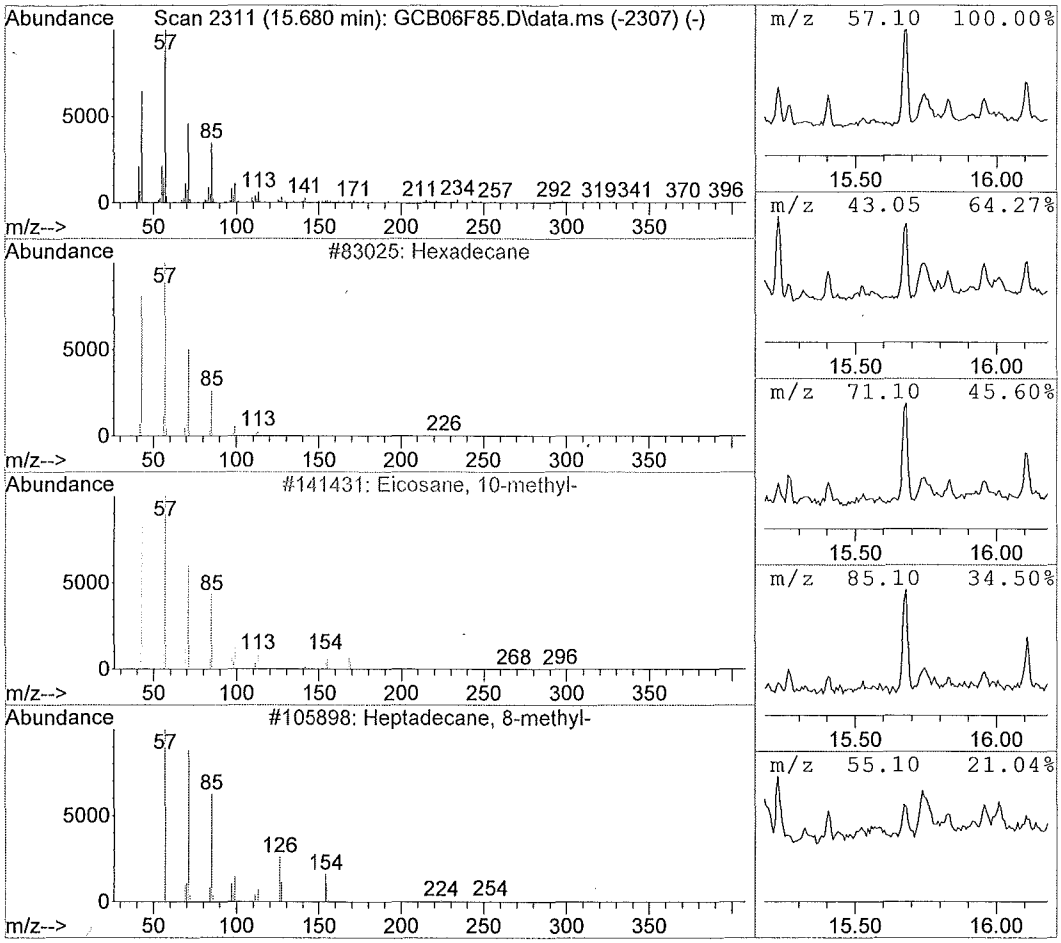
Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.68	2.94 ug/ml	319842	Chrysene-d12	2173972

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane	83025	000544-76-3	93.00
2	Eicosane, 10-methyl-	141431	054833-23-7	91.00
3	Heptadecane, 8-methyl-	105898	013287-23-5	87.00
4	Tetradecane, 6,9-dimethyl-	83045	055045-13-1	87.00
5	10-Methylnonadecane	129494	056862-62-5	83.00

SA

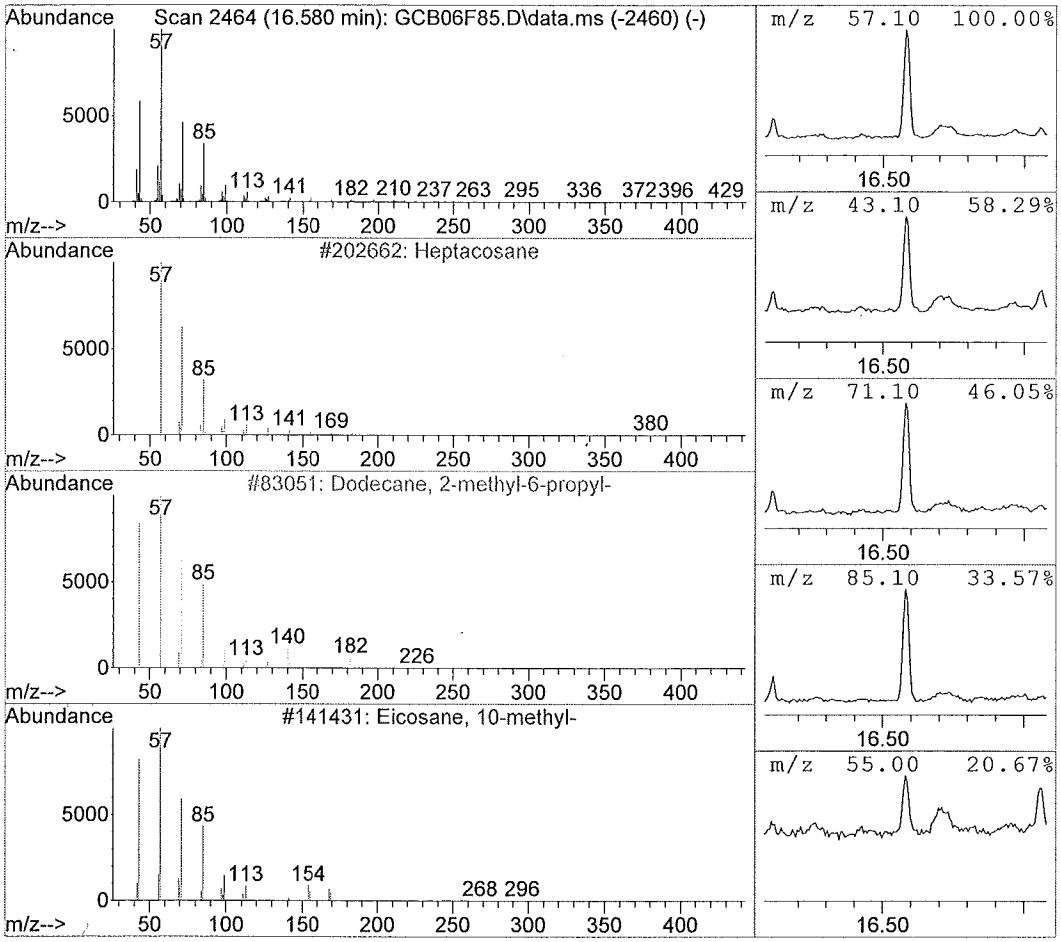


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.58	9.54 ug/ml	1037262	Chrysene-d12	2173972

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	98.00
2	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	91.00
3	Eicosane, 10-methyl-	141431	054833-23-7	91.00
4	Sulfurous acid, butyl decyl ester	125656	1000309-17-7	90.00
5	Hexadecane, 3-methyl-	94351	006418-43-5	87.00

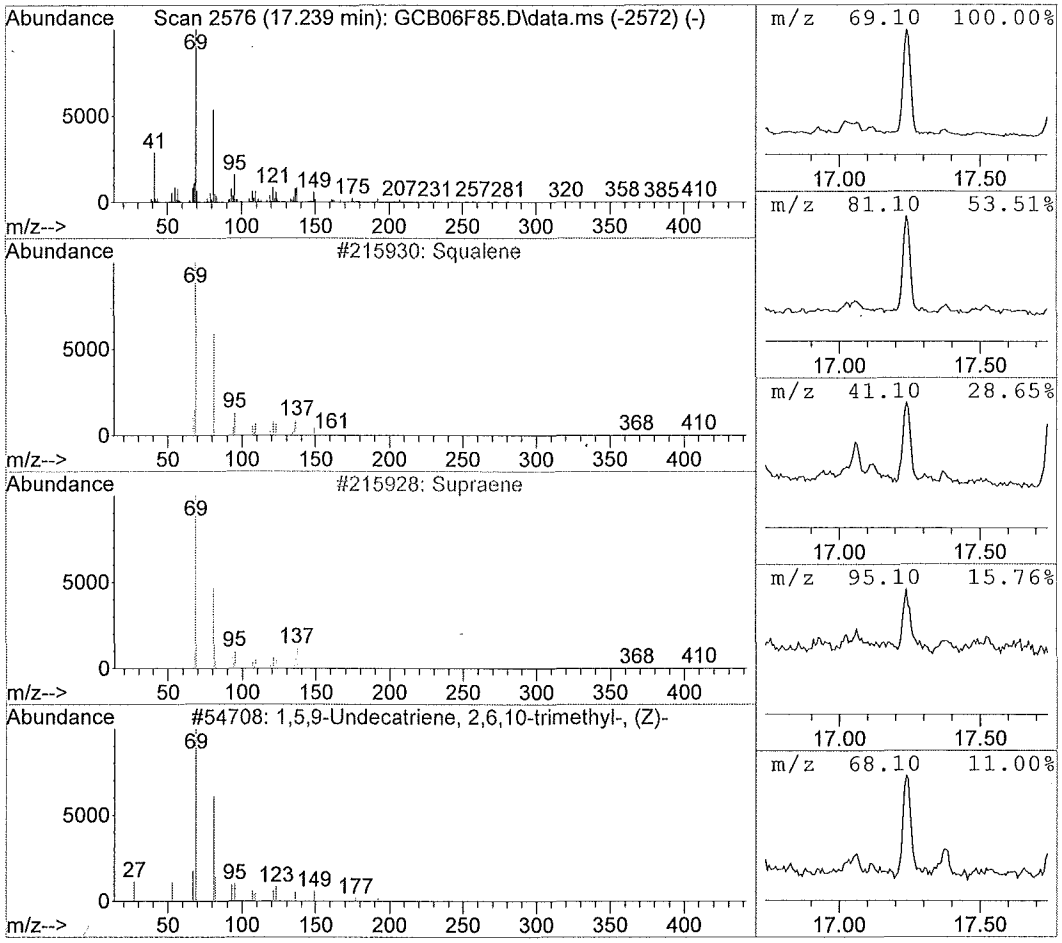


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.24	14.34 ug/ml	776517	Perylene-d12	1082826

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Squalene	215930	000111-02-4	98.00
2	Supraene	215928	007683-64-9	94.00
3	1,5,9-Undecatriene, 2,6,10-trimethy	54708	062951-96-6	80.00
4	.psi.,.psi.-Carotene, 7,7',8,8',11,	238944	000502-62-5	78.00
5	7,11-Dimethyldodeca-2,6,10-trien-1-	67857	125529-10-4	72.00

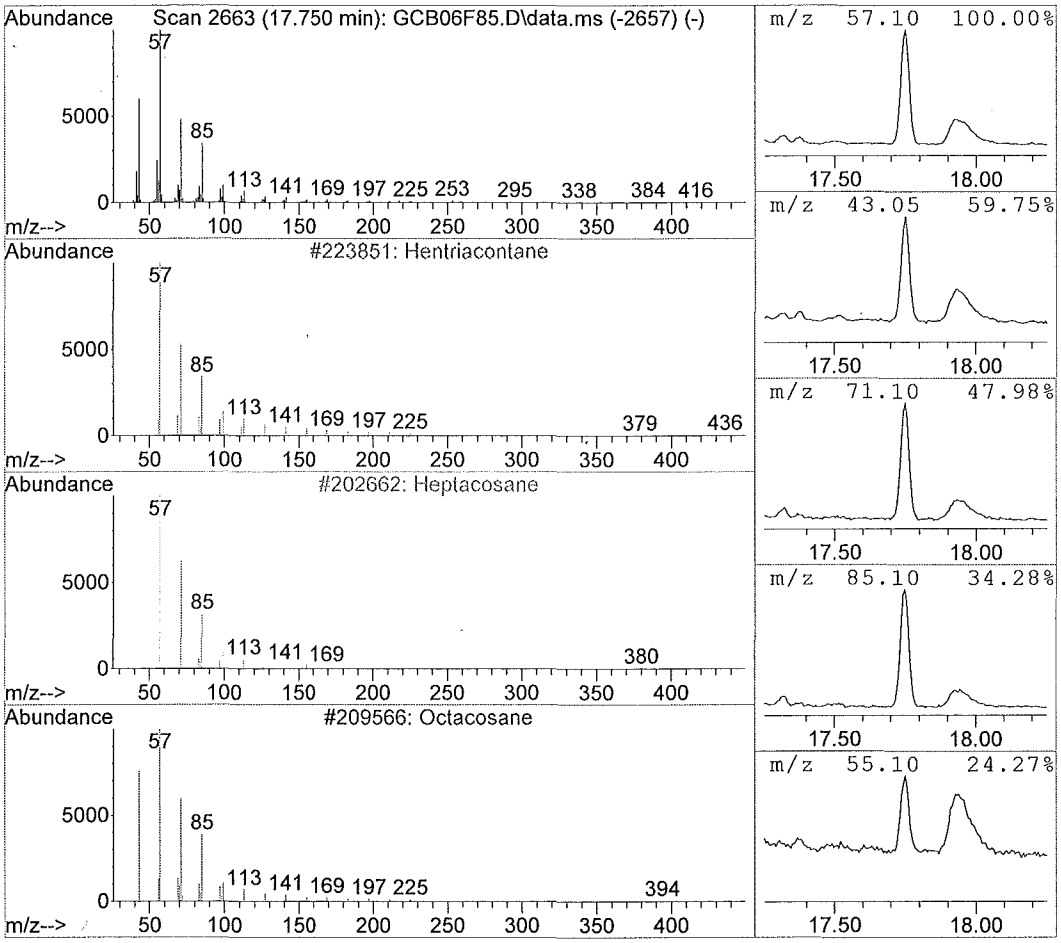


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.75	36.52 ug/ml	1977495	Perylene-d12	1082826

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hentriacontane	223851	000630-04-6	91.00
2	Heptacosane	202662	000593-49-7	91.00
3	Octacosane	209566	000630-02-4	87.00
4	Hexadecane	83025	000544-76-3	87.00
5	Hexatriacontane	235973	000630-06-8	86.00

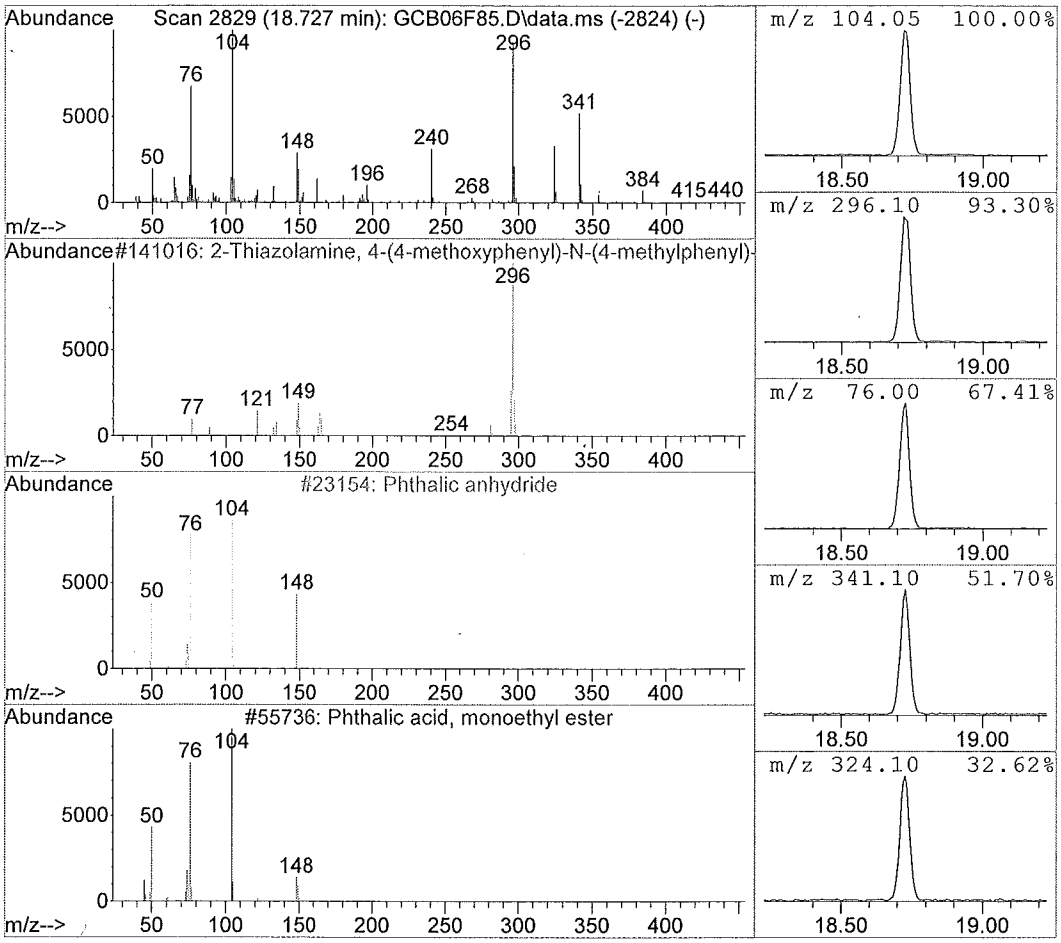


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.73	24.52 ug/ml	1327654	Perylene-d12	1082826

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Thiazolamine, 4-(4-methoxyphenyl)	141016	1000319-57-2	25.00
2	Phthalic anhydride	23154	000085-44-9	22.00
3	Phthalic acid, monoethyl ester	55736	002306-33-4	22.00
4	Xanthine, 1,3-dimethyl-8-[2-[2-meth	140880	1000129-52-7	14.00
5	1H-Pyrazol-5-ol, 1,3-bis(4-methoxyp	140974	1000337-80-1	14.00



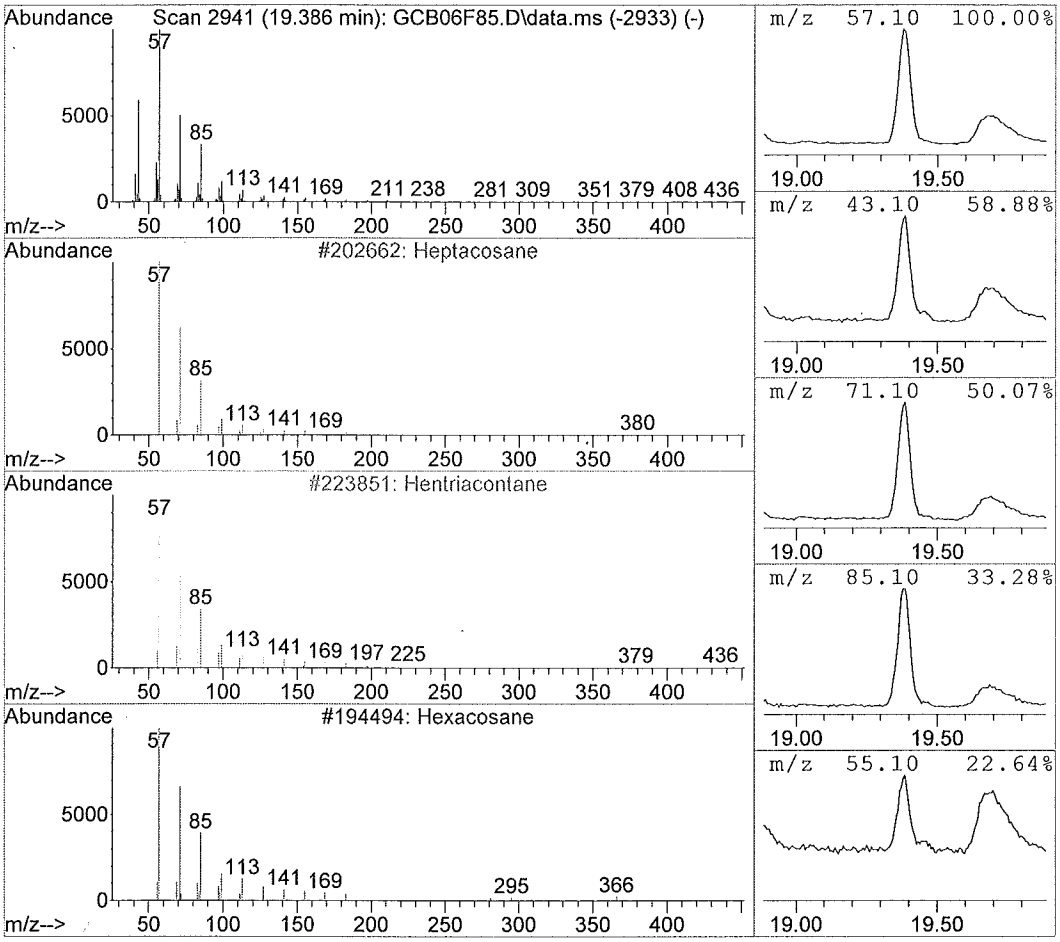
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB06F85.D Vial: 28
Acq On : 06/23/2015 19:51 Operator: TJM
Sample : 1515725005 F9M85 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.39	34.25 ug/ml	1854500	Perylene-d12	1082826

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	98.00
2	Hentriacontane	223851	000630-04-6	91.00
3	Hexacosane	194494	000630-01-3	90.00
4	Octacosane	209566	000630-02-4	87.00
5	Eicosane	129492	000112-95-8	87.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M86

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725006

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCC05F86

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 5.2 Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	180	U
108-95-2	Phenol	180	U
111-44-4	Bis(2-chloroethyl)ether	180	U
95-57-8	2-Chlorophenol	180	U
95-48-7	2-Methylphenol	180	U
108-60-1	2,2'-Oxybis(1-chloropropane)	180	U
98-86-2	Acetophenone	180	U
106-44-5	4-Methylphenol	180	U
621-64-7	N-Nitroso-di-n-propylamine	180	U
67-72-1	Hexachloroethane	180	U
98-95-3	Nitrobenzene	180	U
78-59-1	Isophorone	180	U
88-75-5	2-Nitrophenol	180	U
105-67-9	2,4-Dimethylphenol	180	U
111-91-1	Bis(2-chloroethoxy)methane	180	U
120-83-2	2,4-Dichlorophenol	180	U
91-20-3	Naphthalene	180	U
106-47-8	4-Chloroaniline	180	U
87-68-3	Hexachlorobutadiene	180	U
105-60-2	Caprolactam	180	U
59-50-7	4-Chloro-3-methylphenol	180	U
91-57-6	2-Methylnaphthalene	180	U
77-47-4	Hexachlorocyclopentadiene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U
92-52-4	1,1'-Biphenyl	180	U
91-58-7	2-Chloronaphthalene	180	U
88-74-4	2-Nitroaniline	350	U
131-11-3	Dimethylphthalate	180	U
606-20-2	2,6-Dinitrotoluene	180	U
208-96-8	Acenaphthylene	180	U
99-09-2	3-Nitroaniline	350	U
83-32-9	Acenaphthene	180	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M86

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725006

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCC05F86

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 5.2 Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	350	U
100-02-7	4-Nitrophenol	350	U
132-64-9	Dibenzofuran	180	U
121-14-2	2,4-Dinitrotoluene	180	U
84-66-2	Diethylphthalate	180	U
86-73-7	Fluorene	180	U
7005-72-3	4-Chlorophenyl-phenylether	180	U
100-01-6	4-Nitroaniline	350	U
534-52-1	4,6-Dinitro-2-methylphenol	350	U
86-30-6	N-Nitrosodiphenylamine[1]	180	U
95-94-3	1,2,4,5-Tetrachlorobenzene	180	U
101-55-3	4-Bromophenyl-phenylether	180	U
118-74-1	Hexachlorobenzene	180	U
1912-24-9	Atrazine	180	U
87-86-5	Pentachlorophenol	350	U
85-01-8	Phenanthrene	180	U
120-12-7	Anthracene	180	U
86-74-8	Carbazole	180	U
84-74-2	Di-n-butylphthalate	15.	J
206-44-0	Fluoranthene	180	U
129-00-0	Pyrene	180	U
85-68-7	Butylbenzylphthalate	180	U
91-94-1	3,3'-Dichlorobenzidine	180	U
56-55-3	Benzo(a)anthracene	180	U
218-01-9	Chrysene	180	U
117-81-7	Bis(2-ethylhexyl)phthalate	180	U
117-84-0	Di-n-octylphthalate	180	U
205-99-2	Benzo(b)fluoranthene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
50-32-8	Benzo(a)pyrene	180	U
193-39-5	Indeno(1,2,3-cd)pyrene	180	U
53-70-3	Dibenzo(a,h)anthracene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
58-90-2	2,3,4,6-Tetrachlorophenol	180	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M86

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725006
Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCC05F86
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 5.2 Decanted: (Y/N) N Date Received: 06/05/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015
GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	814-78-8	3-Buten-2-one, 3-methyl-	2.22	130	JN
02		Unknown 3-Buten-2-ol, 2-methyl-	2.30	150	J
03		Unknown 3-Penten-2-ol	2.32	180	J
04		Unknown 2-Pentanone, 4-hydroxy-	3.34	140	JB
05		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.54	5600	JB
06		Unknown 1-Octene, 4-methyl-	3.65	130	J
07		Unknown Hexane, 2-bromo-	4.23	890	J
08		Unknown 1H-Pyrrole-2,5-dione	4.32	740	J
09		Unknown 1-Pyrrolidinecarboxaldehyde	5.03	130	J
10		Unknown 1,2,3-Propanetriol, 1-acetate	5.15	540	J
11		Unknown Pentanoic acid, 2,2,4-trimethyl-3-carbox	9.73	270	J
12	112-39-0	Hexadecanoic acid, methyl ester	12.47	150	JN
13	57-10-3	n-Hexadecanoic acid	12.72	190	JN
14		Unknown Undecanamide, 11-bromo-	12.84	130	J
15	1120-16-7	Dodecanamide	14.21	410	JN
16	301-02-0	9-Octadecenamide, (Z)-	15.13	2600	JNB
17	629-54-9	Hexadecanamide	15.23	160	JNB
18		Unknown 4-Pentenoic acid, methyl ester	16.26	180	J
19	111-02-4	Squalene	17.24	190	JN
20	35599-77-0	Tridecane, 1-iodo-	21.76	550	JN
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	2800	J

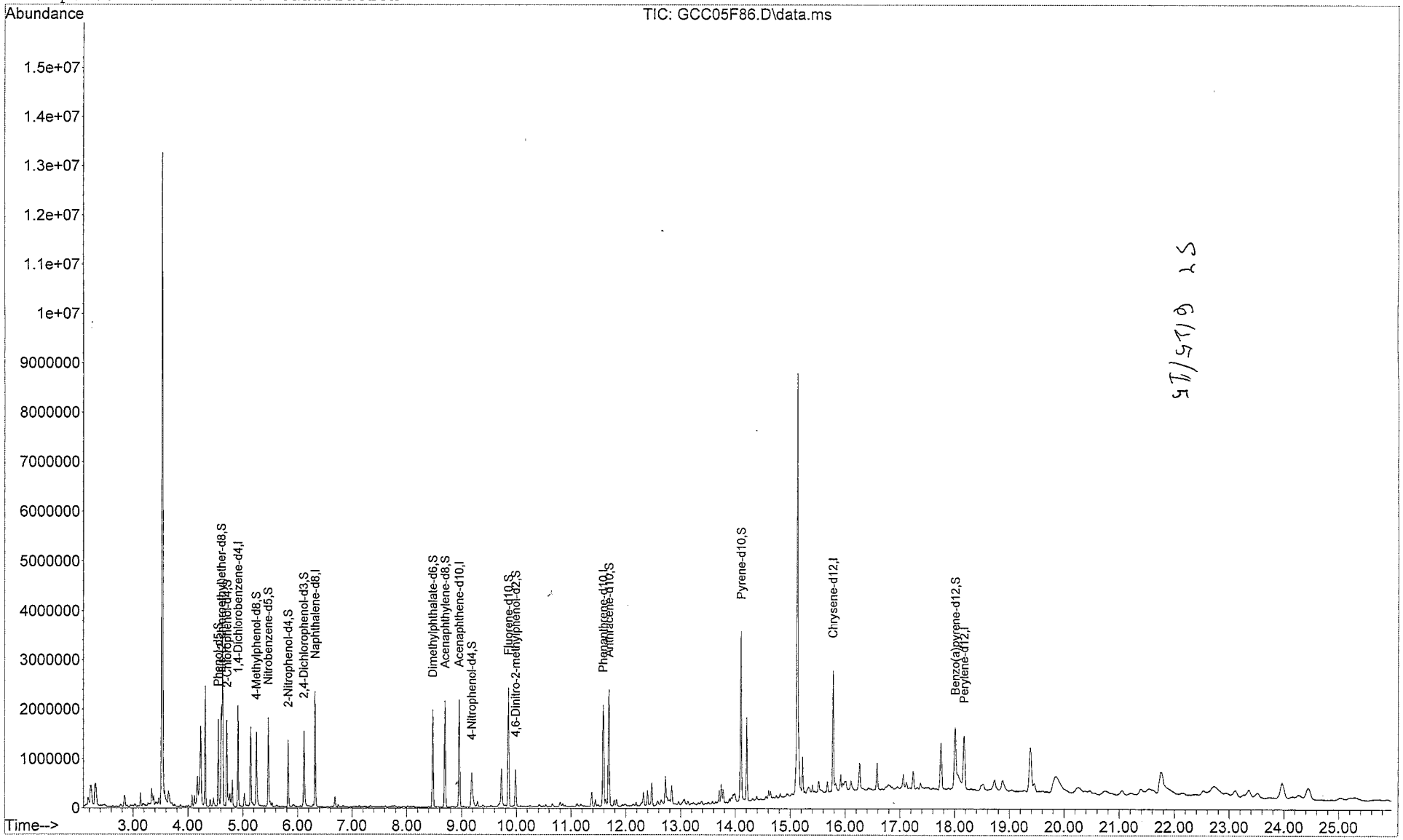
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC05F86.D Vial: 4
Acq On : 06/24/2015 09:07 Operator: SY
Sample : 1515725006 F9M86 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 25 06:30:44 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration



6/25/15 LS

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC05F86.D Vial: 4
Acq On : 06/24/2015 09:07 Operator: SY
Sample : 1515725006 F9M86 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 06:30:44 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.92	152	317896	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1188550	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	694695	20.00 ug/ml
59) Phenanthrene-d10	11.59	188	1151171	20.00 ug/ml
73) Chrysene-d12	15.78	240	1103581	20.00 ug/ml
81) Perylene-d12	18.17	264	770864	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.55	99	559418	20.222ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	410926	19.061ug/mL
7) 2-Chlorophenol-d4	4.71	132	491778	21.054ug/ml
13) 4-Methylphenol-d8	5.25	113	347194	18.764ug/mL
17) Nitrobenzene-d5	5.46	128	225161	21.565ug/ml
21) 2-Nitrophenol-d4	5.83	143	240788	21.818ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	373836	21.754ug/mL
28) 4-Chloroaniline-d4	6.39	131	557	0.030ug/mL
42) Dimethylphthalate-d6	8.47	166	1018020	23.370ug/mL
45) Acenaphthylene-d8	8.70	160	1280288	21.627ug/mL
50) 4-Nitrophenol-d4	9.19	143	206609	23.249ug/mL
57) Fluorene-d10	9.86	176	887246	23.850ug/mL
61) 4,6-Dinitro-2-methylphenol	9.99	200	134084	16.410ug/mL
69) Anthracene-d10	11.69	188	1356269	22.217ug/mL
75) Pyrene-d10	14.10	212	1323465	24.031ug/mL
86) Benzo(a)pyrene-d12	18.01	264	812563	21.998ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

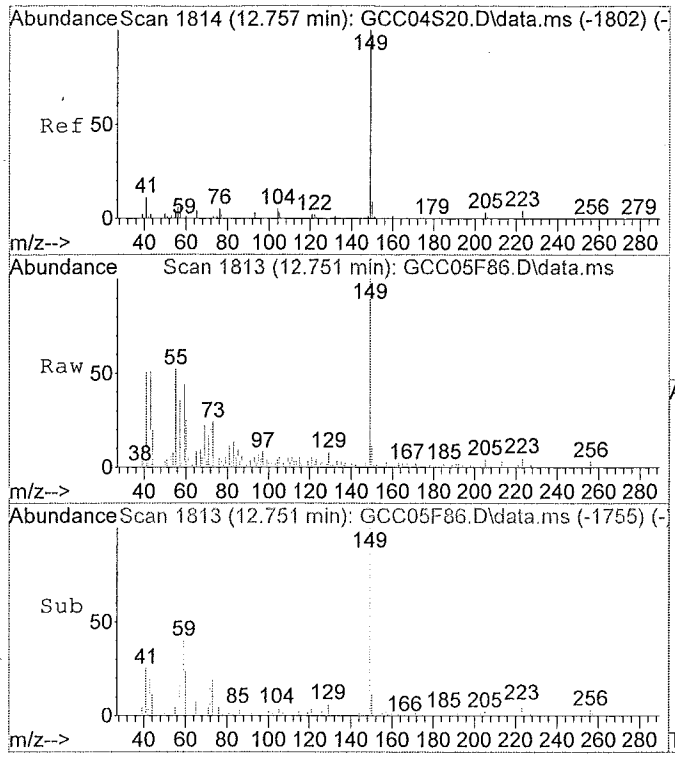
Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC05F86.D Vial: 4
Acq On : 06/24/2015 09:07 Operator: SY
Sample : 1515725006 F9M86 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 06:30:44 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) Acenaphthylene	0.00	152		Not Detected	
46) 3-Nitroaniline	0.00	138		Not Detected	
47) Acenaphthene	0.00	153		Not Detected	
48) 2,4-Dinitrophenol	0.00	184		Not Detected	
49) 4-Nitrophenol	0.00	109		Not Detected	
51) Dibenzofuran	0.00	168		Not Detected	
52) 2,4-Dinitrotoluene	0.00	165		Not Detected	
53) 2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54) Diethylphthalate	0.00	149		Not Detected	
55) 4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56) Fluorene	0.00	166		Not Detected	
58) 4-Nitroaniline	0.00	138		Not Detected	
60) 4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62) N-Nitrosodiphenylamine	0.00	169		Not Detected	
63) 4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64) Hexachlorobenzene	0.00	284		Not Detected	
65) Atrazine	0.00	200		Not Detected	
66) Pentachlorophenol	0.00	266		Not Detected	
67) Phenanthrene	0.00	178		Not Detected	
68) Anthracene	0.00	178		Not Detected	
70) Carbazole	0.00	167		Not Detected	
71) Di-n-butylphthalate	12.75	149	35595	0.419ug/ml	87
72) Fluoranthene	0.00	202		Not Detected	
74) Pyrene	0.00	202		Not Detected	
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	0.00	228		Not Detected	
79) Chrysene	0.00	228		Not Detected	
80) Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	0.00	252		Not Detected	
84) Benzo(k)fluoranthene	0.00	252		Not Detected	
85) Benzo(a)pyrene	0.00	252		Not Detected	
87) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89) Benzo(g,h,i)perylene	0.00	276		Not Detected	

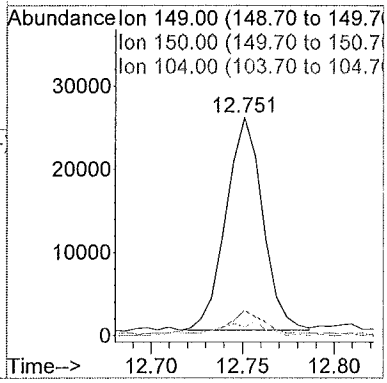
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#71
Di-n-butylphthalate
Concen: 0.42 ug/ml
RT: 12.75 min Scan# 1813
Delta R.T. -0.01 min
Lab File: GCC05F86.D
Acq: 06/24/2015 09:07

Tgt Ion:149 Resp: 35595

Ion	Ratio	Lower	Upper
149	100		
150	14.5	6.4	11.8#
104	8.3	3.6	6.6#
0	0.0	0.0	0.0



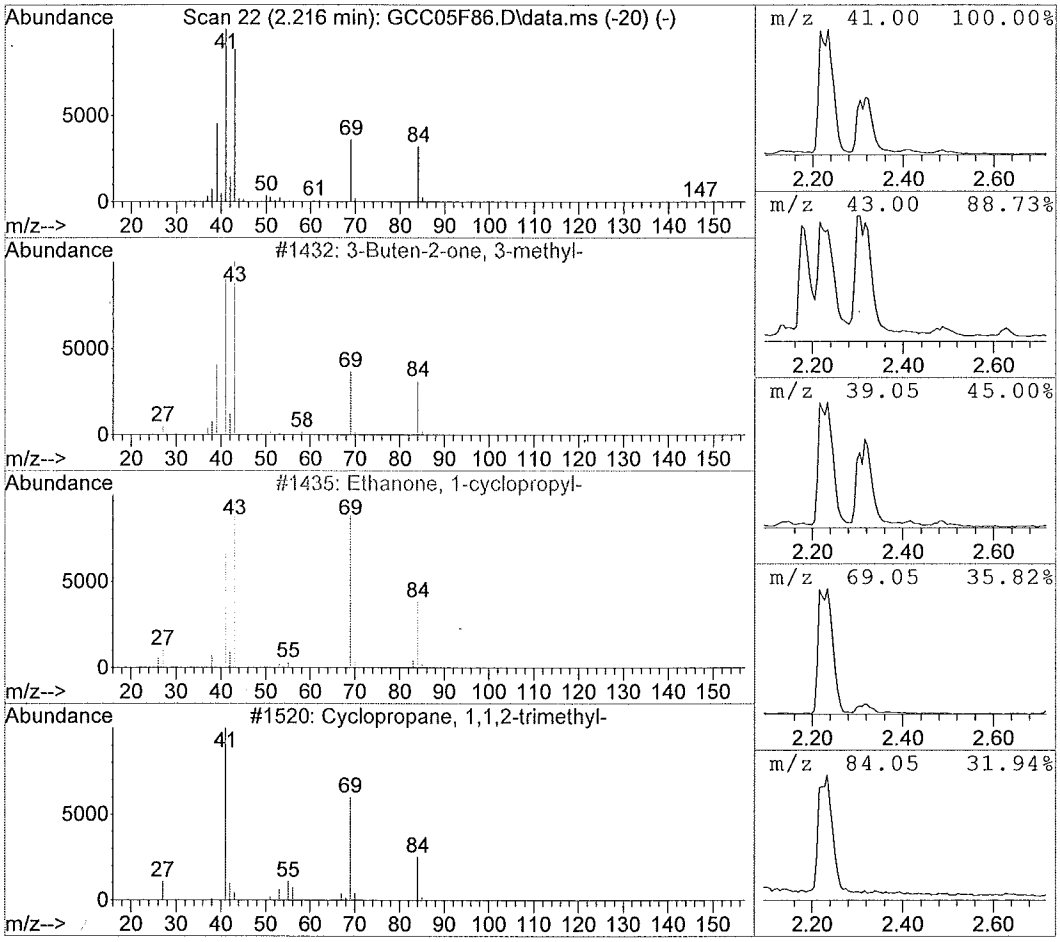
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC05F86.D Vial: 4
Acq On : 06/24/2015 09:07 Operator: SY
Sample : 1515725006 F9M86 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.22	3.71 ug/ml	404848	1,4-Dichlorobenzene-d4	2184611

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Buten-2-one, 3-methyl-	1432	000814-78-8	91.00
2	Ethanone, 1-cyclopropyl-	1435	000765-43-5	43.00
3	Cyclopropane, 1,1,2-trimethyl-	1520	004127-45-1	38.00
4	Propane, 1-nitro-	2167	000108-03-2	38.00
5	2-Pentene, 4-methyl-, (Z)-	1507	000691-38-3	35.00



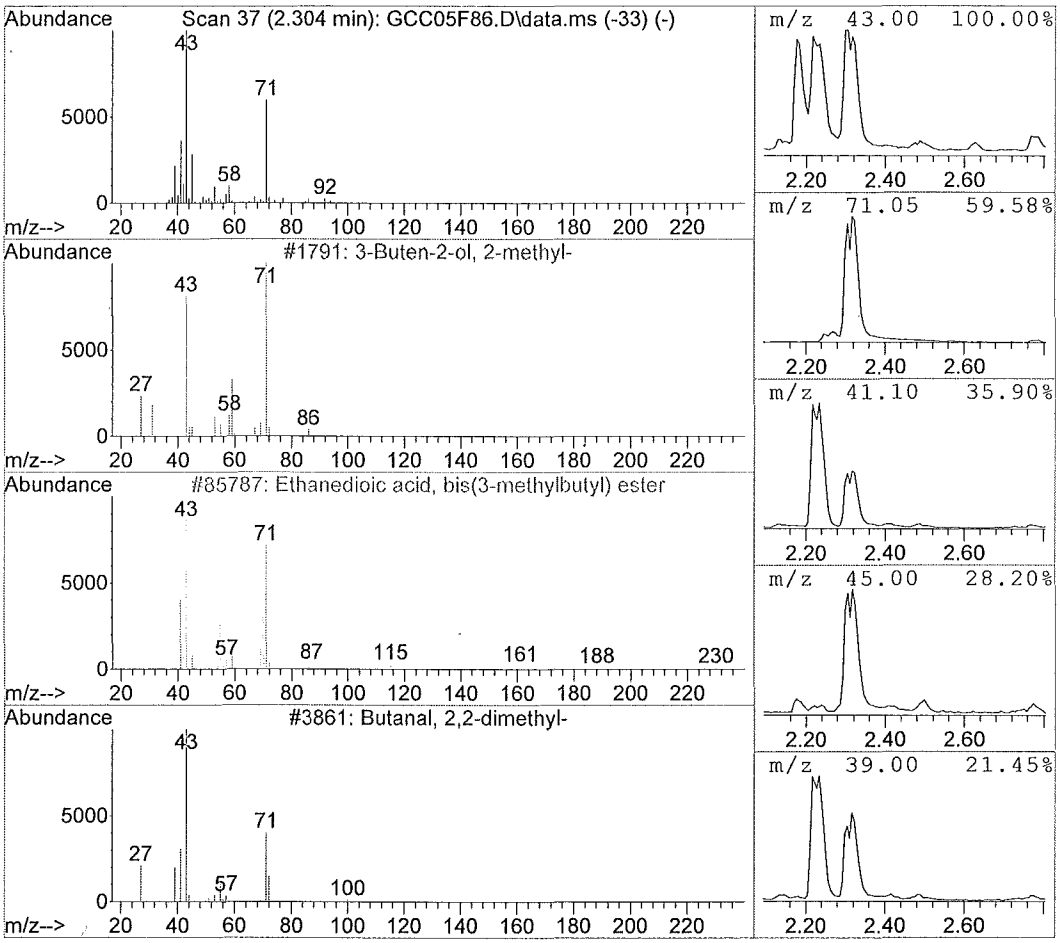
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC05F86.D Vial: 4
Acq On : 06/24/2015 09:07 Operator: SY
Sample : 1515725006 F9M86 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.30	4.25 ug/ml	464438	1,4-Dichlorobenzene-d4	2184611

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Buten-2-ol, 2-methyl-	1791	000115-18-4	47.00
2	Ethanedioic acid, bis(3-methylbutyl	85787	002051-00-5	38.00
3	Butanal, 2,2-dimethyl-	3861	002094-75-9	37.00
4	Pentane, 2-bromo-	24066	000107-81-3	37.00
5	1,6-Heptadien-4-ol	6489	002883-45-6	37.00

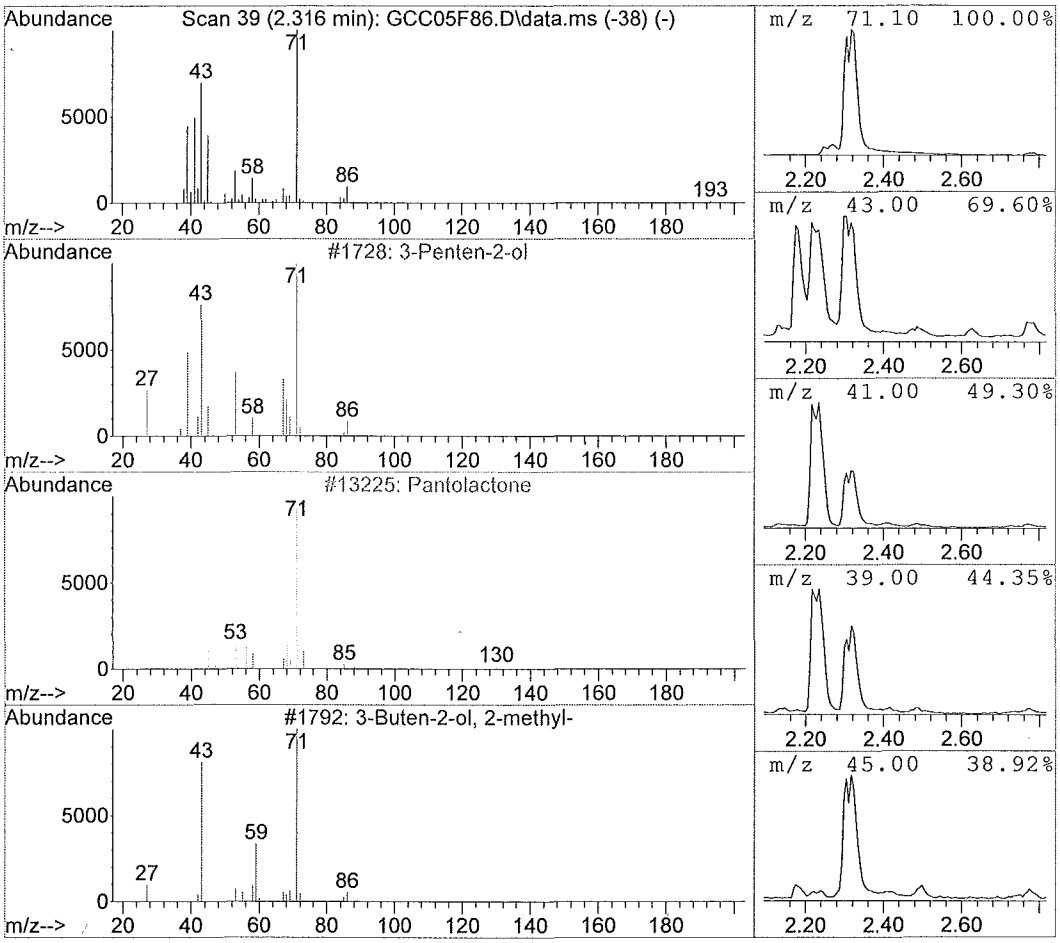


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC05F86.D Vial: 4
Acq On : 06/24/2015 09:07 Operator: SY
Sample : 1515725006 F9M86 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.32	5.11 ug/ml	558397	1,4-Dichlorobenzene-d4	2184611

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Penten-2-ol	1728	001569-50-2	59.00
2	Pantolactone	13225	000599-04-2	59.00
3	3-Buten-2-ol, 2-methyl-	1792	000115-18-4	43.00
4	Z-1-Methoxy-2-pentene	3852	1000279-59-4	42.00
5	Furan, tetrahydro-2-(methoxymethyl)	8207	019354-27-9	33.00



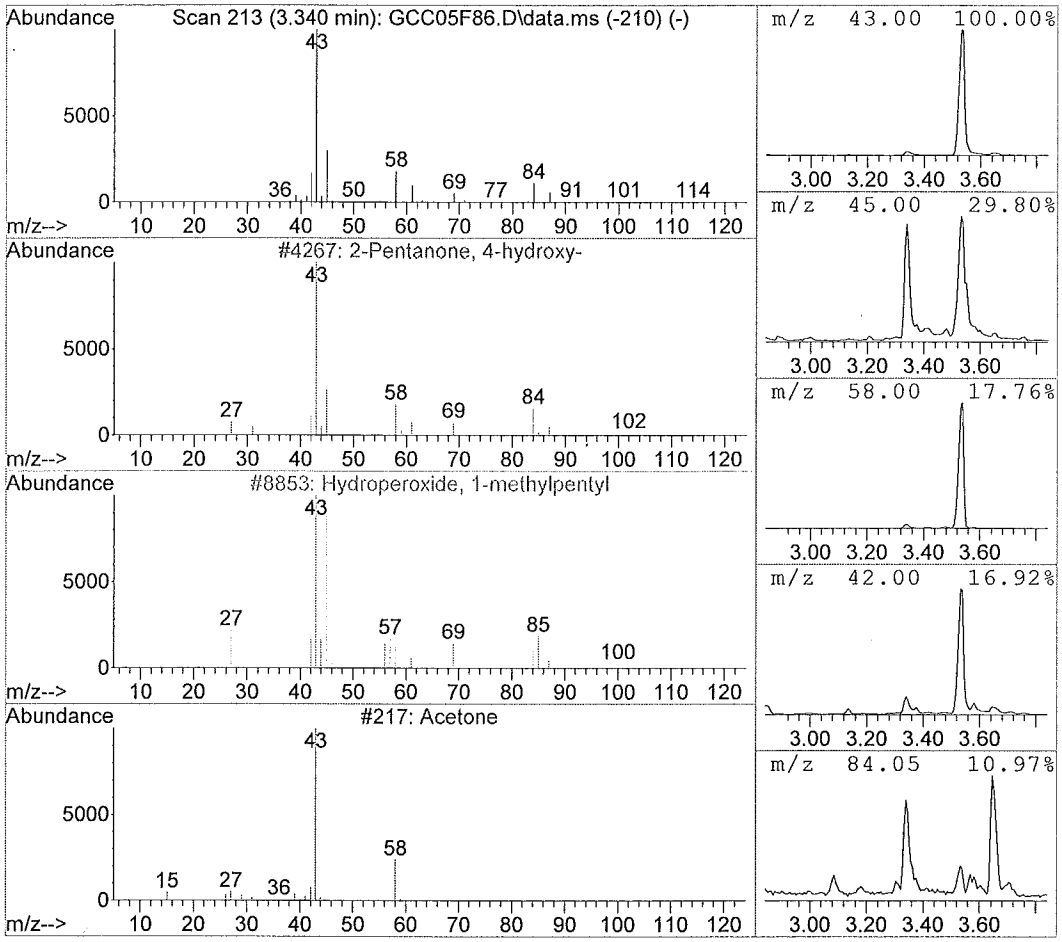
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC05F86.D Vial: 4
Acq On : 06/24/2015 09:07 Operator: SY
Sample : 1515725006 F9M86 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.34	4.08 ug/ml	445626	1,4-Dichlorobenzene-d4	2184611

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	33.00
2	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	33.00
3	Acetone	217	000067-64-1	9.00
4	Isopropyl acetate	4253	000108-21-4	9.00
5	1-Propanamine, N-nitro-	4644	000627-07-6	5.00

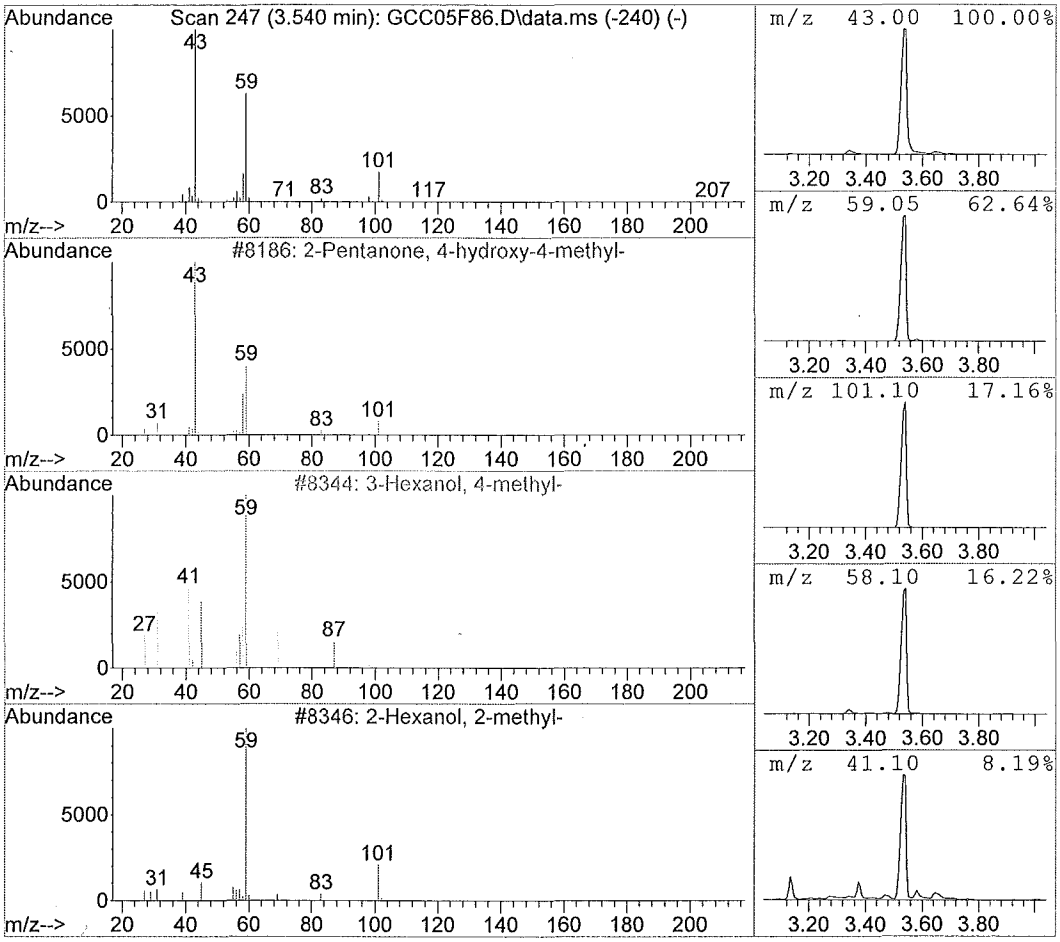


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC05F86.D Vial: 4
Acq On : 06/24/2015 09:07 Operator: SY
Sample : 1515725006 F9M86 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.54	160.92 ug/ml	17576936	1,4-Dichlorobenzene-d4	2184611

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
2	3-Hexanol, 4-methyl-	8344	000615-29-2	33.00
3	2-Hexanol, 2-methyl-	8346	000625-23-0	28.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	23.00
5	Guanidine	257	000113-00-8	9.00

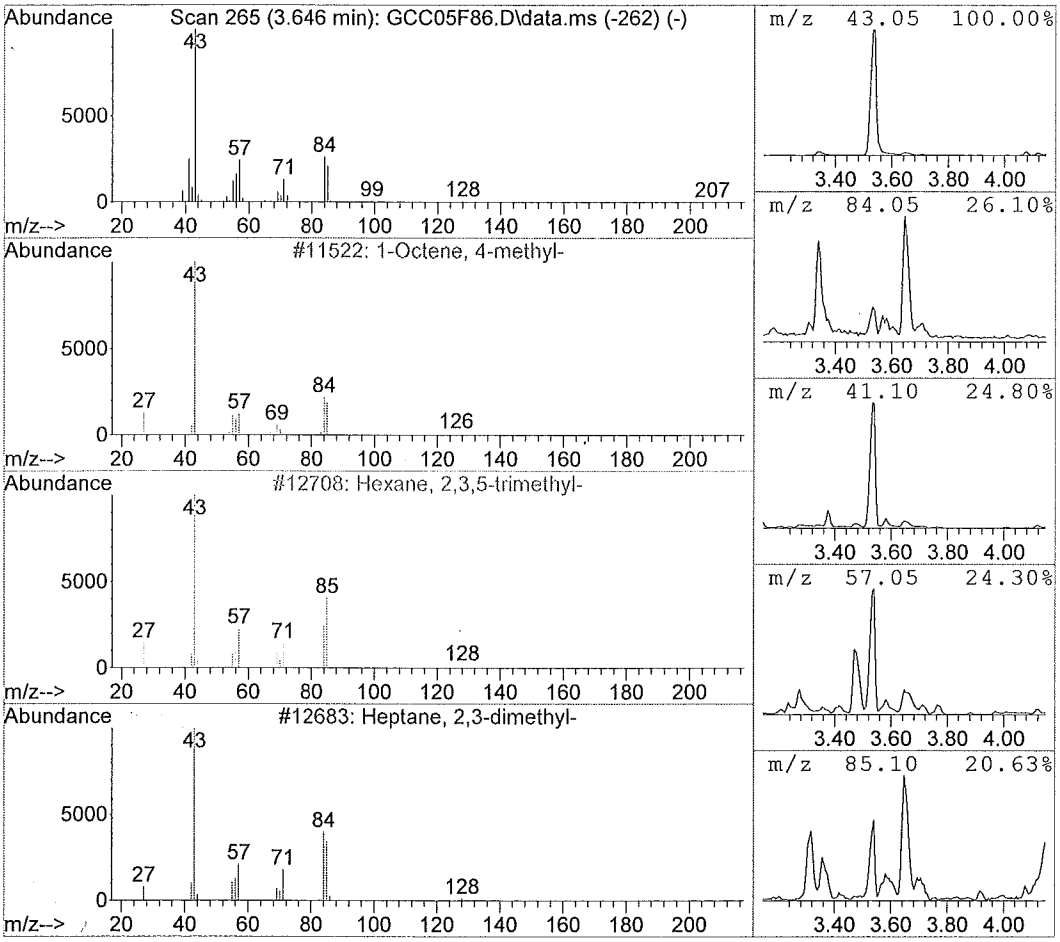


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC05F86.D Vial: 4
Acq On : 06/24/2015 09:07 Operator: SY
Sample : 1515725006 F9M86 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.65	3.78 ug/ml	412589	1,4-Dichlorobenzene-d4	2184611

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Octene, 4-methyl-	11522	013151-12-7	72.00
2	Hexane, 2,3,5-trimethyl-	12708	001069-53-0	59.00
3	Heptane, 2,3-dimethyl-	12683	003074-71-3	56.00
4	Decane, 5,6-dimethyl-	38347	001636-43-7	50.00
5	Hexane, 3-ethyl-	7622	000619-99-8	50.00



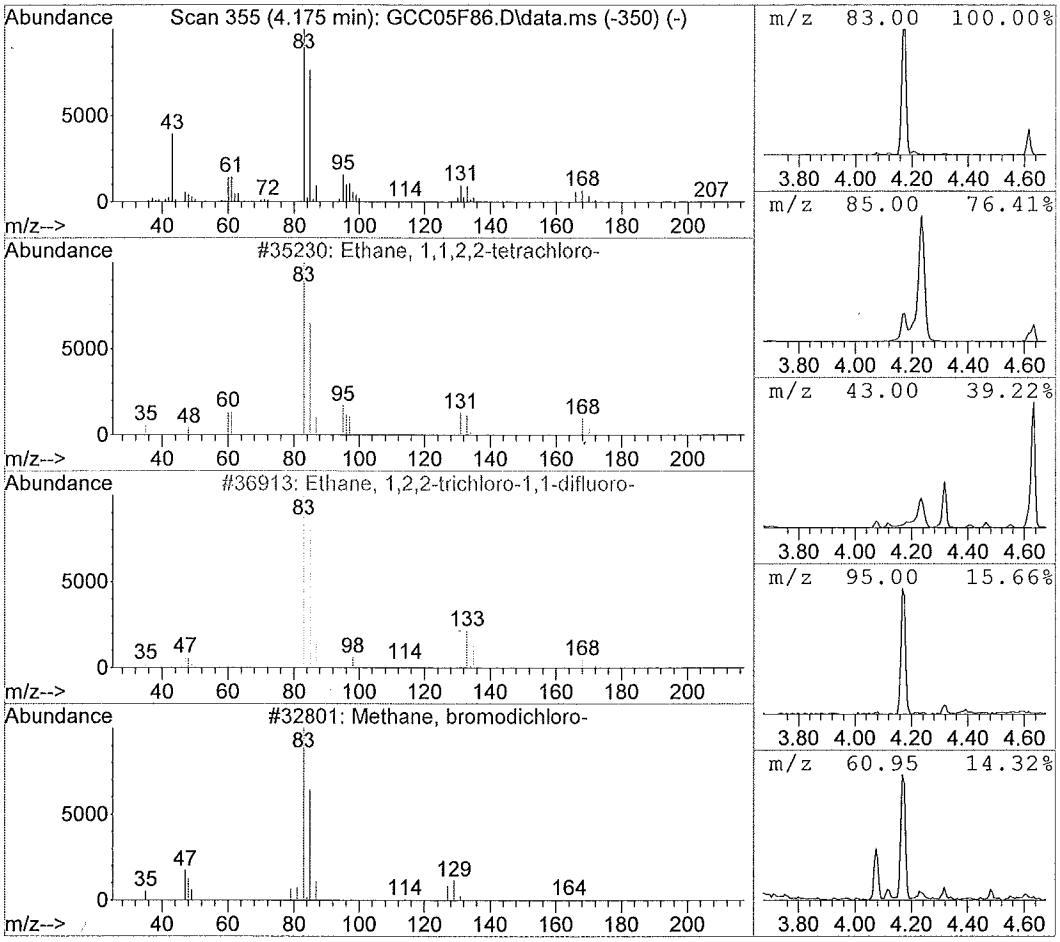
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC05F86.D Vial: 4
Acq On : 06/24/2015 09:07 Operator: SY
Sample : 1515725006 F9M86 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.17	8.42 ug/ml	919625	1,4-Dichlorobenzene-d4	2184611

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	35230	000079-34-5	95.00
2	Ethane, 1,2,2-trichloro-1,1-difluor VOA	36913	000354-21-2	62.00
3	Methane, bromodichloro-	32801	000075-27-4	59.00
4	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	50.00
5	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	45.00

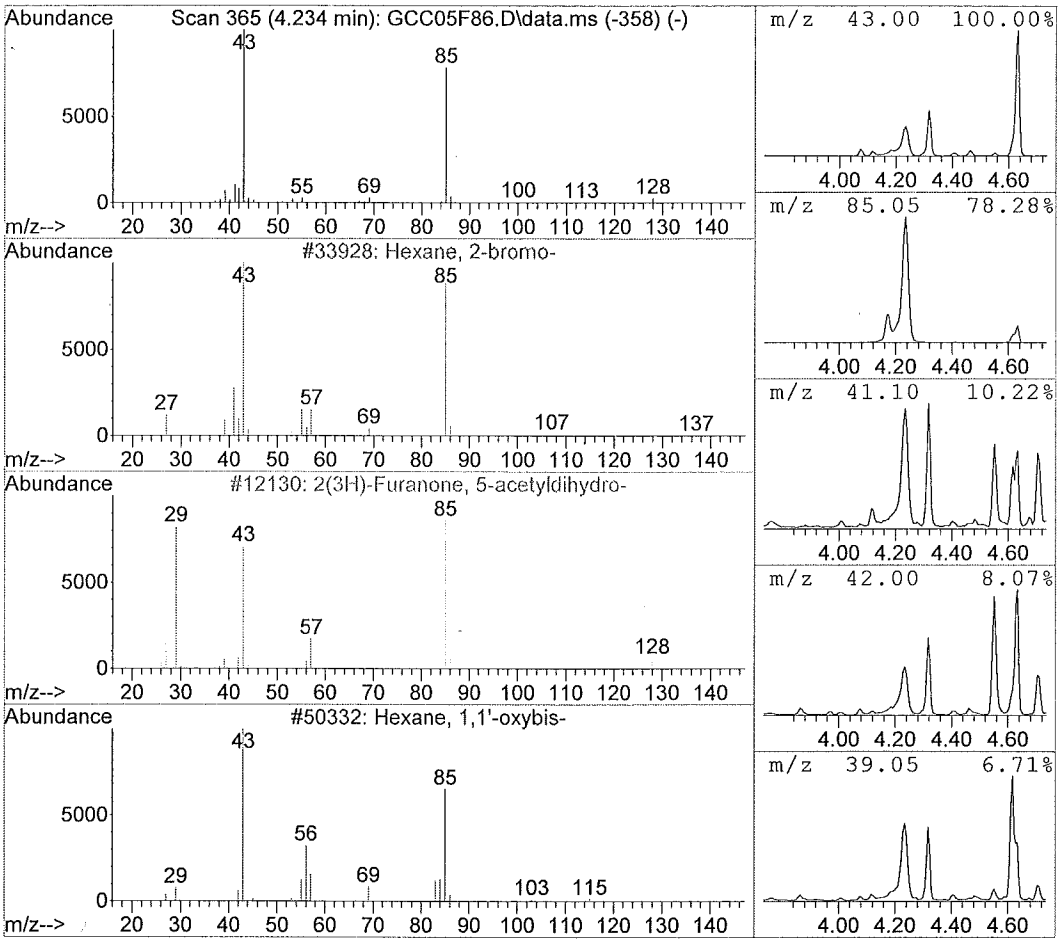


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC05F86.D Vial: 4
Acq On : 06/24/2015 09:07 Operator: SY
Sample : 1515725006 F9M86 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.23	25.52 ug/ml	2788086	1,4-Dichlorobenzene-d4	2184611

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2-bromo-	33928	003377-86-4	50.00
2	2(3H)-Furanone, 5-acetyldihydro-	12130	029393-32-6	50.00
3	Hexane, 1,1'-oxybis-	50332	000112-58-3	40.00
4	2-Methylbutanoic anhydride	49848	001468-39-9	39.00
5	4-Methoxy-3-buten-2-one	3689	004652-27-1	38.00



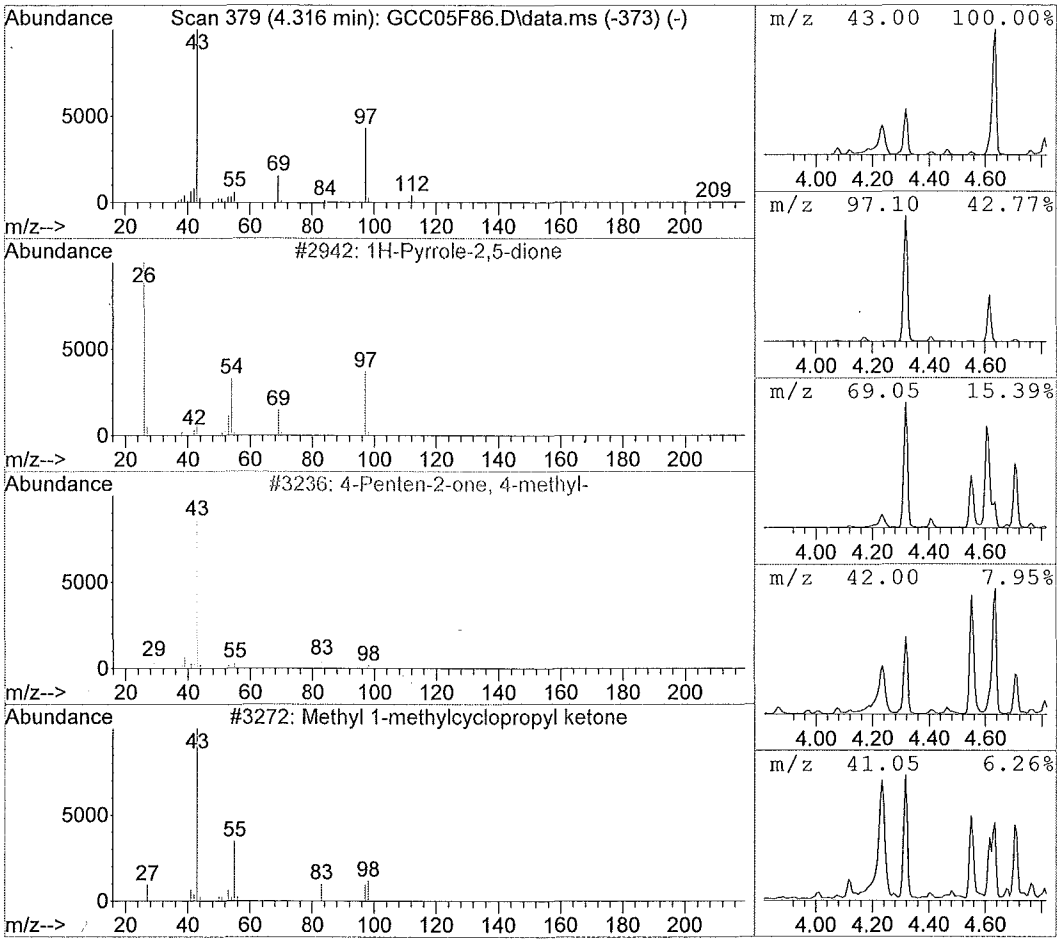
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC05F86.D Vial: 4
Acq On : 06/24/2015 09:07 Operator: SY
Sample : 1515725006 F9M86 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.32	21.18 ug/ml	2313783	1,4-Dichlorobenzene-d4	2184611

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	50.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00
4	2-Vinylethyl acetate	7191	001576-84-7	9.00
5	5-Hexen-2-one	3152	000109-49-9	9.00



Library Search Compound Report

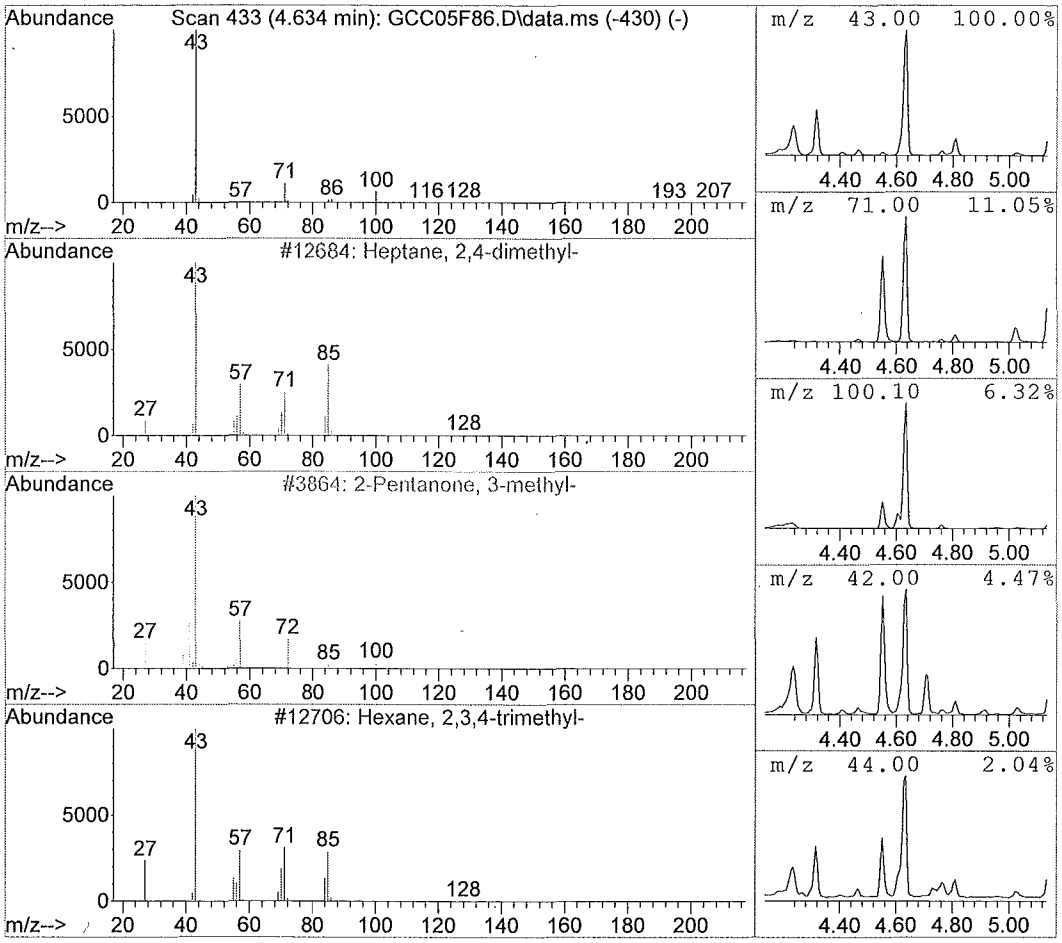
Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC05F86.D Vial: 4
Acq On : 06/24/2015 09:07 Operator: SY
Sample : 1515725006 F9M86 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.63	36.14 ug/ml	3947555	1,4-Dichlorobenzene-d4	2184611

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,4-dimethyl-	12684	002213-23-2	5.00
2	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
3	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00
4	3-Hexanone	3776	000589-38-8	5.00
5	Heptane	3973	000142-82-5	4.00

BA



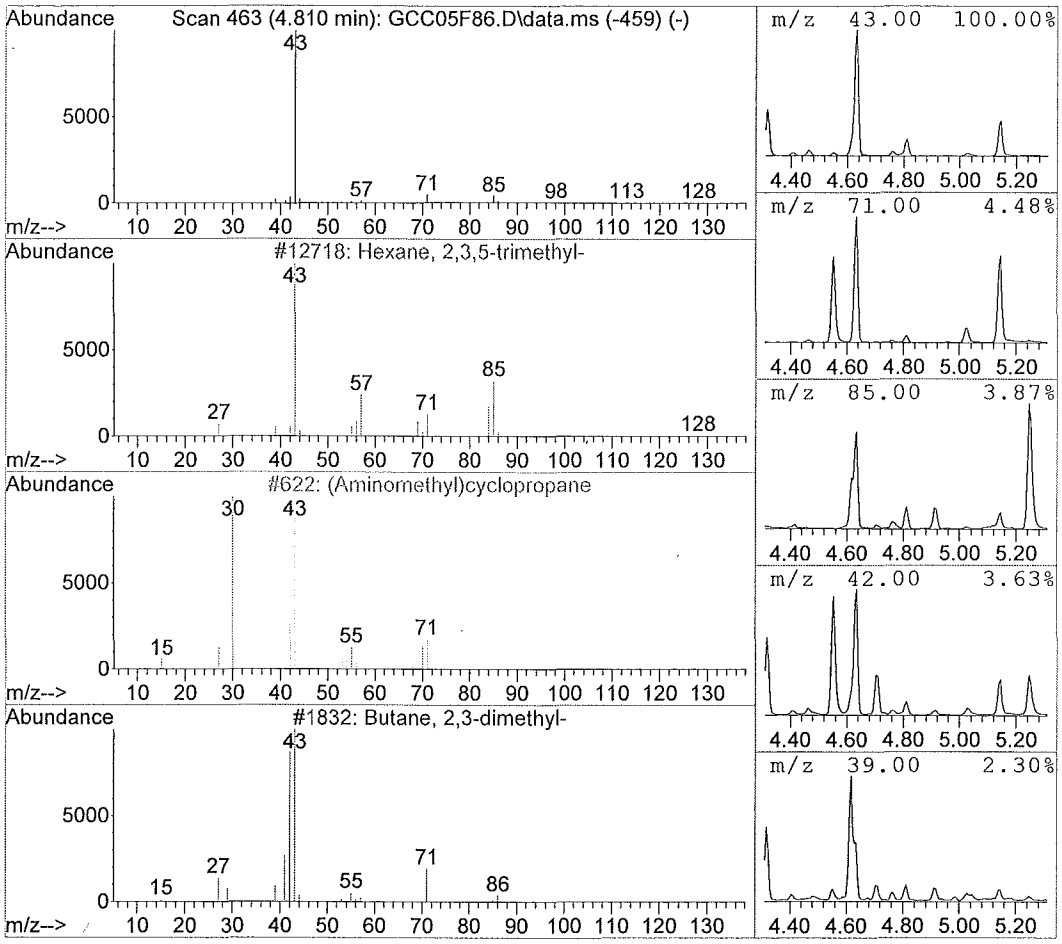
Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC05F86.D Vial: 4
Acq On : 06/24/2015 09:07 Operator: SY
Sample : 1515725006 F9M86 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.81	5.12 ug/ml	559614	1,4-Dichlorobenzene-d4	2184611

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	5.00
2	(Aminomethyl)cyclopropane	622	002516-47-4	4.00
3	Butane, 2,3-dimethyl-	1832	000079-29-8	4.00
4	2,3-Butanedione	1661	000431-03-8	4.00
5	2-Pentanone	1710	000107-87-9	4.00

BA

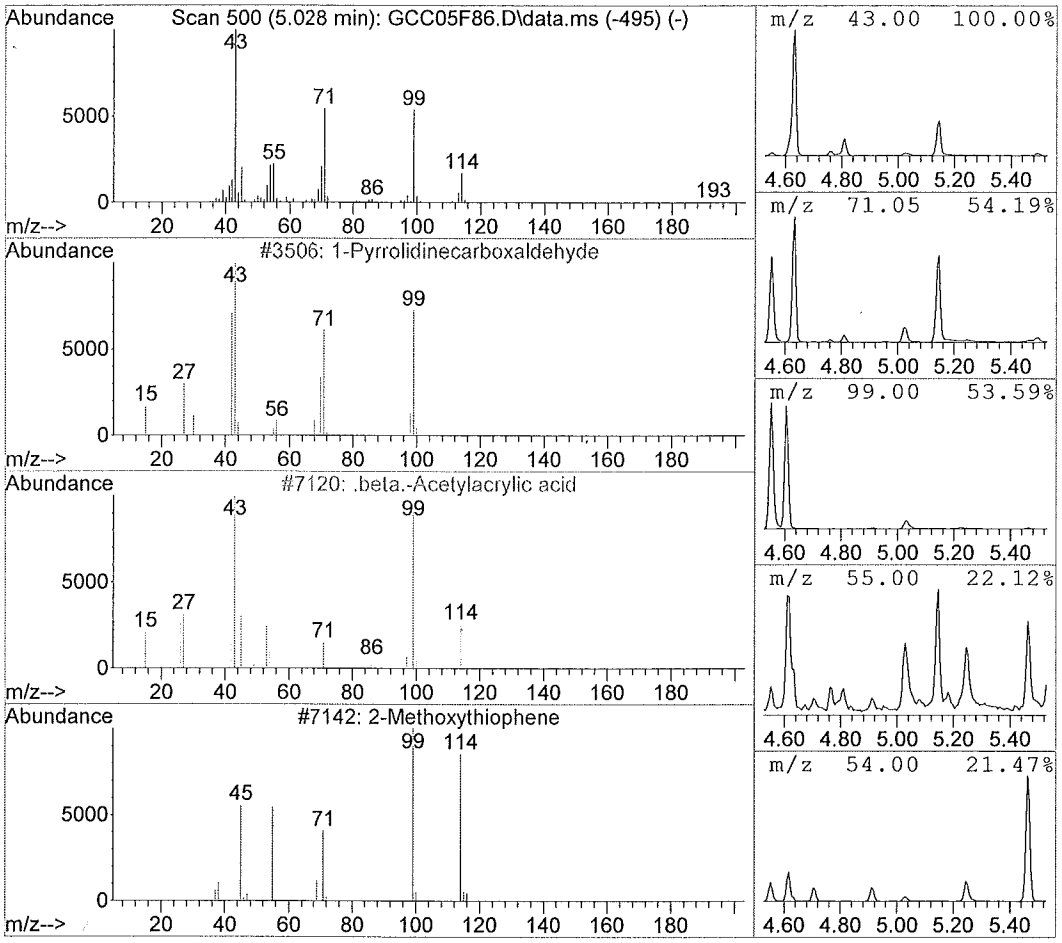


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC05F86.D Vial: 4
Acq On : 06/24/2015 09:07 Operator: SY
Sample : 1515725006 F9M86 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.03	3.60 ug/ml	393473	1,4-Dichlorobenzene-d4	2184611

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Pyrrolidinecarboxaldehyde	3506	003760-54-1	43.00
2	.beta.-Acetylacrylic acid	7120	004743-82-2	43.00
3	2-Methoxythiophene	7142	016839-97-7	38.00
4	Pyrrolidine-2,4-dione	3449	037772-89-7	35.00
5	Pentanoic acid, 2-methyl-, anhydrid	72493	063169-61-9	35.00

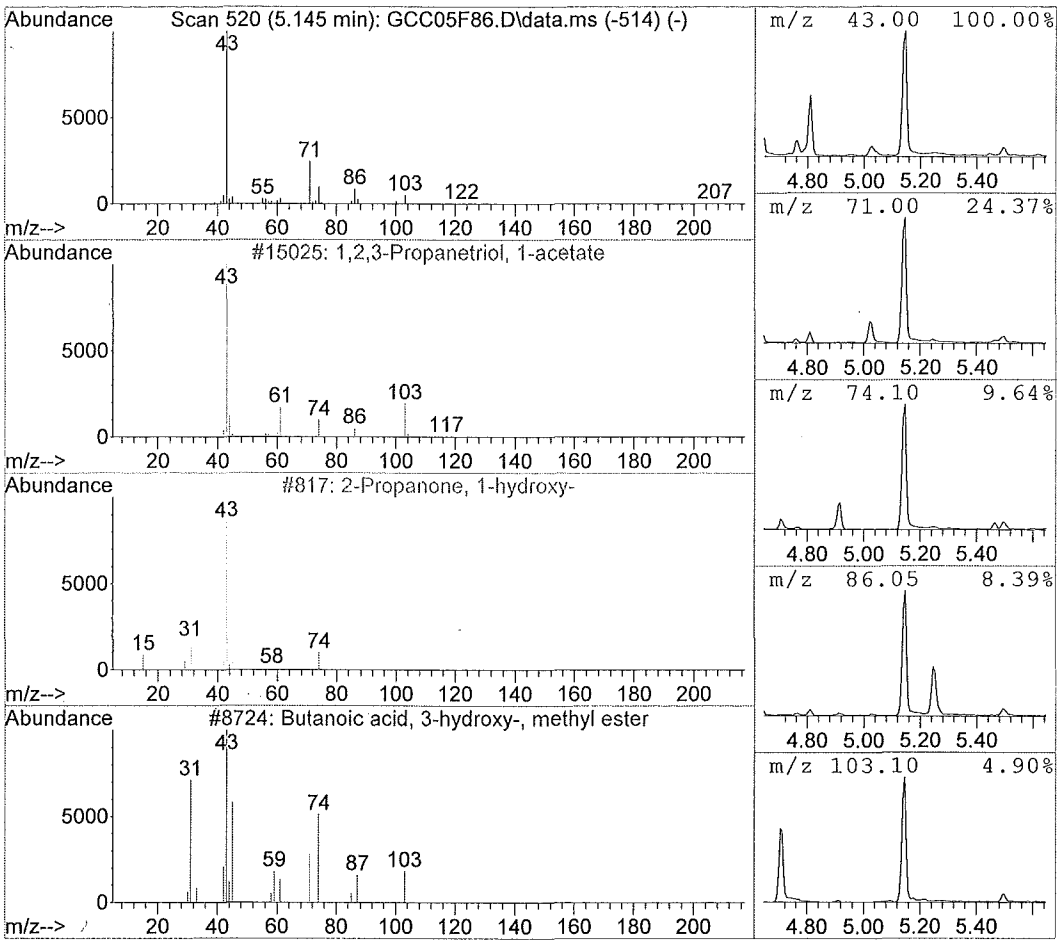


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC05F86.D Vial: 4
Acq On : 06/24/2015 09:07 Operator: SY
Sample : 1515725006 F9M86 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.15	15.50 ug/ml	1693343	1,4-Dichlorobenzene-d4	2184611

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	32.00
2	2-Propanone, 1-hydroxy-	817	000116-09-6	27.00
3	Butanoic acid, 3-hydroxy-, methyl e	8724	001487-49-6	12.00
4	Diacetyl sulphide	8654	003232-39-1	10.00
5	Pentanal, 2-methyl-	3836	000123-15-9	9.00

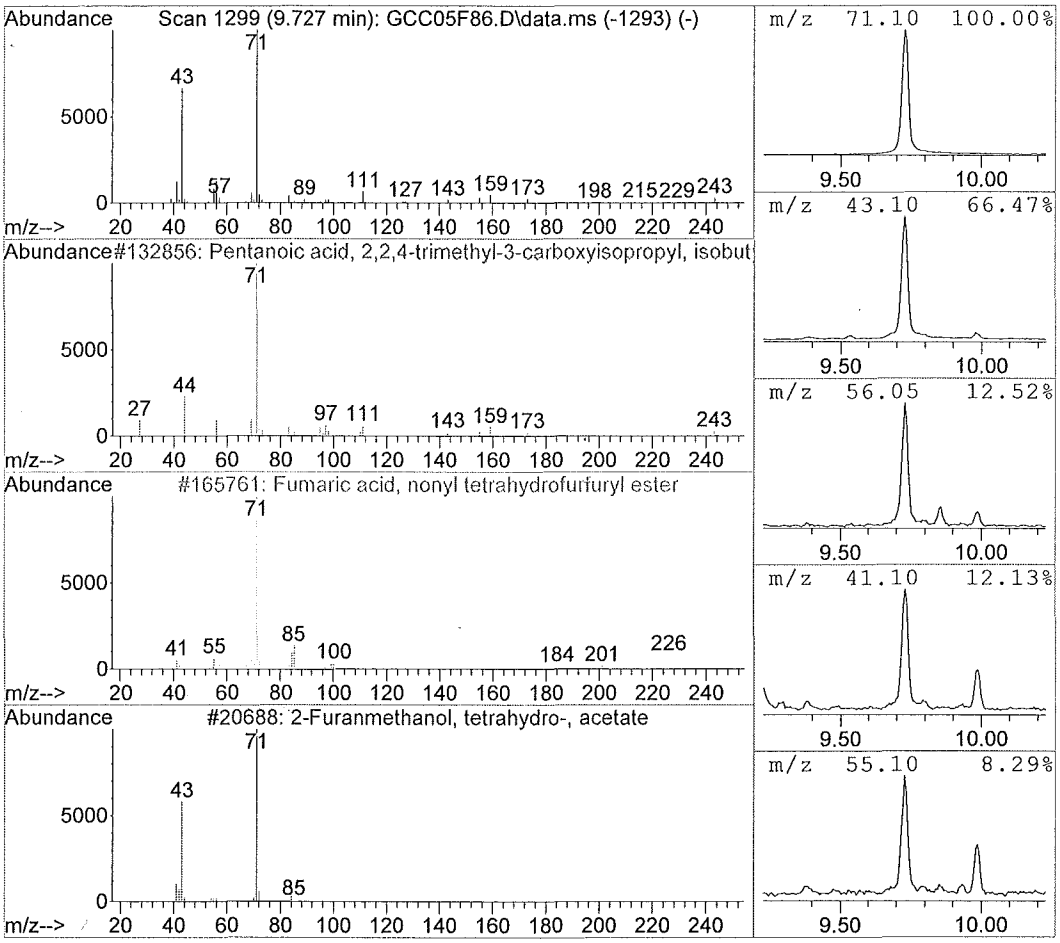


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC05F86.D Vial: 4
Acq On : 06/24/2015 09:07 Operator: SY
Sample : 1515725006 F9M86 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.73	7.65 ug/ml	1129767	Acenaphthene-d10	2955434

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentanoic acid, 2,2,4-trimethyl-3-c	132856	1000140-77-5	74.00
2	Fumaric acid, nonyl tetrahydrofurfu	165761	1000330-58-3	59.00
3	2-Furanmethanol, tetrahydro-, aceta	20688	000637-64-9	45.00
4	Butanethioic acid, S-butyl ester	31310	002432-52-2	45.00
5	4-Hexen-3-ol, 2-methyl-	7529	004798-60-1	42.00

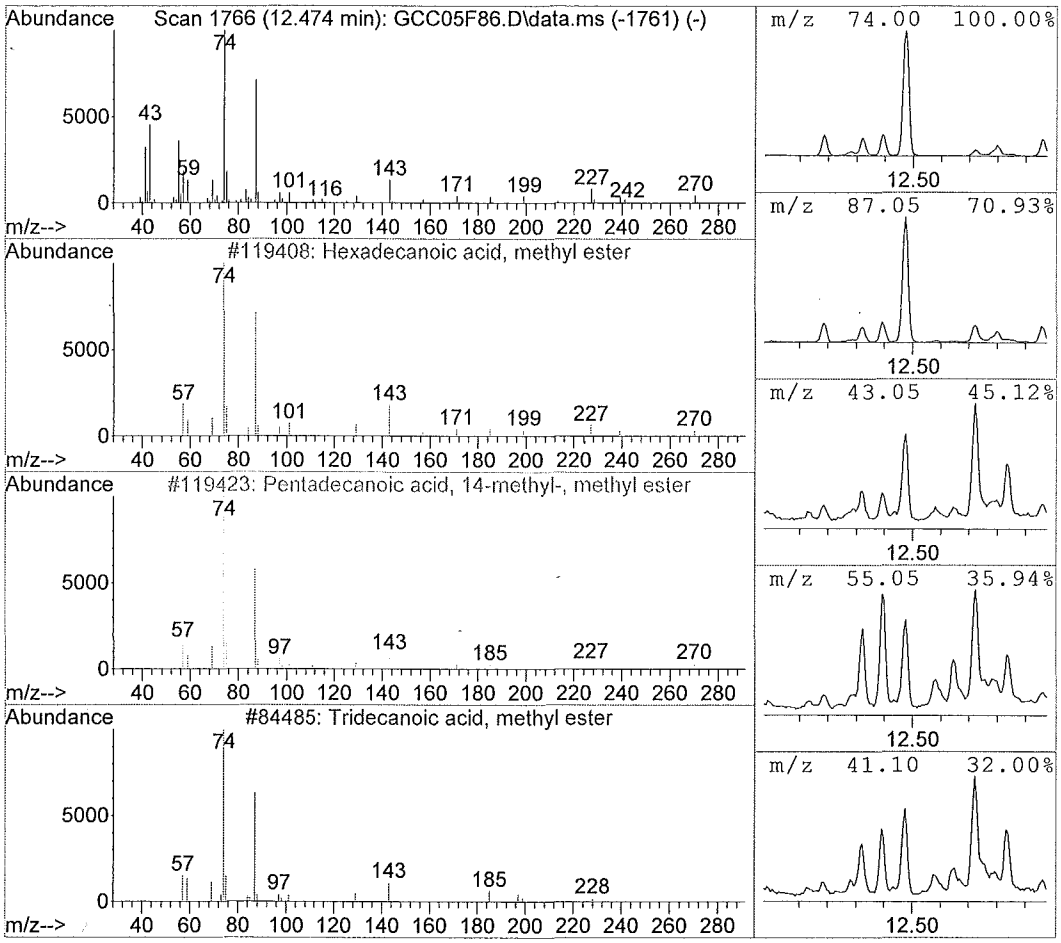


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC05F86.D Vial: 4
Acq On : 06/24/2015 09:07 Operator: SY
Sample : 1515725006 F9M86 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.47	4.28 ug/ml	663276	Phenanthrene-d10	3102812

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, methyl ester	119408	000112-39-0	96.00
2	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	95.00
3	Tridecanoic acid, methyl ester	84485	001731-88-0	93.00
4	Methyl 11-methyl-dodecanoate	84473	1000336-45-1	90.00
5	Hexadecanoic acid, 2-methyl-	119390	027147-71-3	87.00



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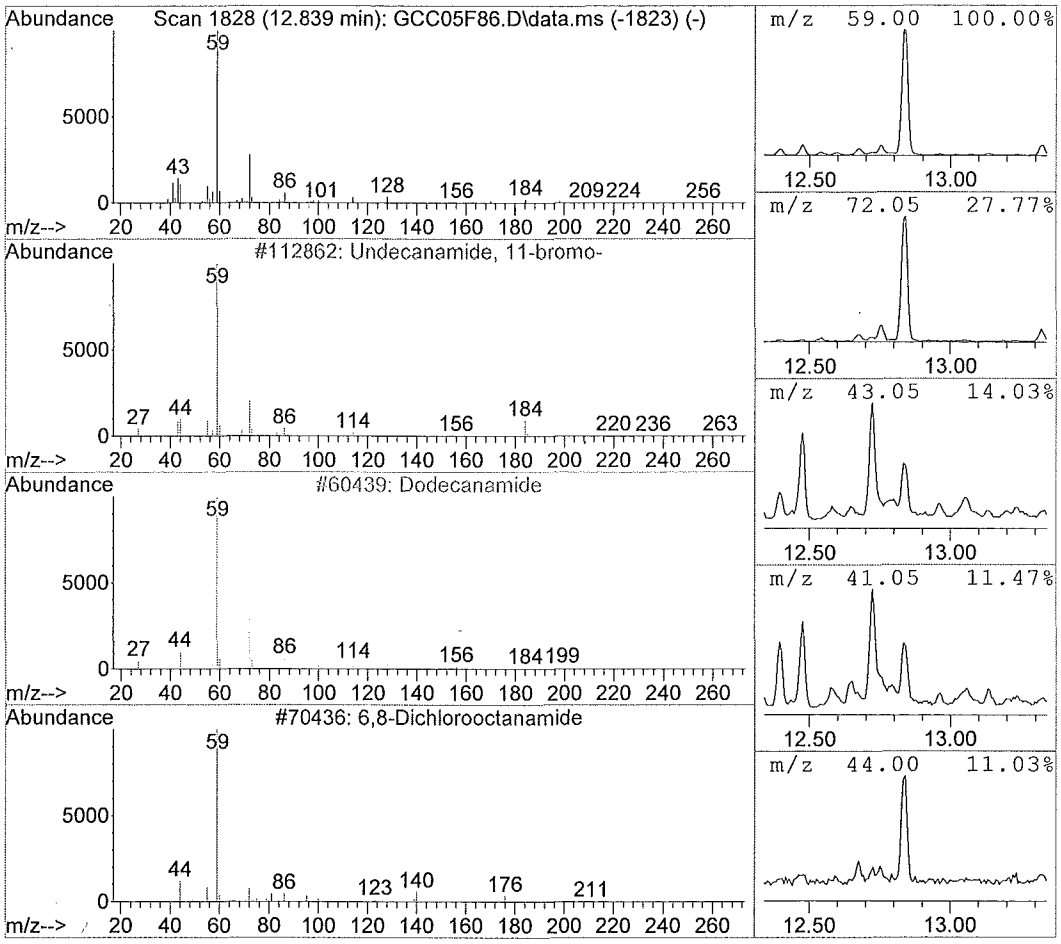
Acq On : 06/24/2015 09:07 Operator: SY
Sample : 1515725006 F9M86 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.84	3.72 ug/ml	576481	Phenanthrene-d10	3102812

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecanamide, 11-bromo-	112862	005875-26-3	78.00
2	Dodecanamide	60439	001120-16-7	78.00
3	6,8-Dichlorooctanamide	70436	003579-00-8	59.00
4	Decanamide-	38977	002319-29-1	56.00
5	Nonanamide	29478	001120-07-6	56.00

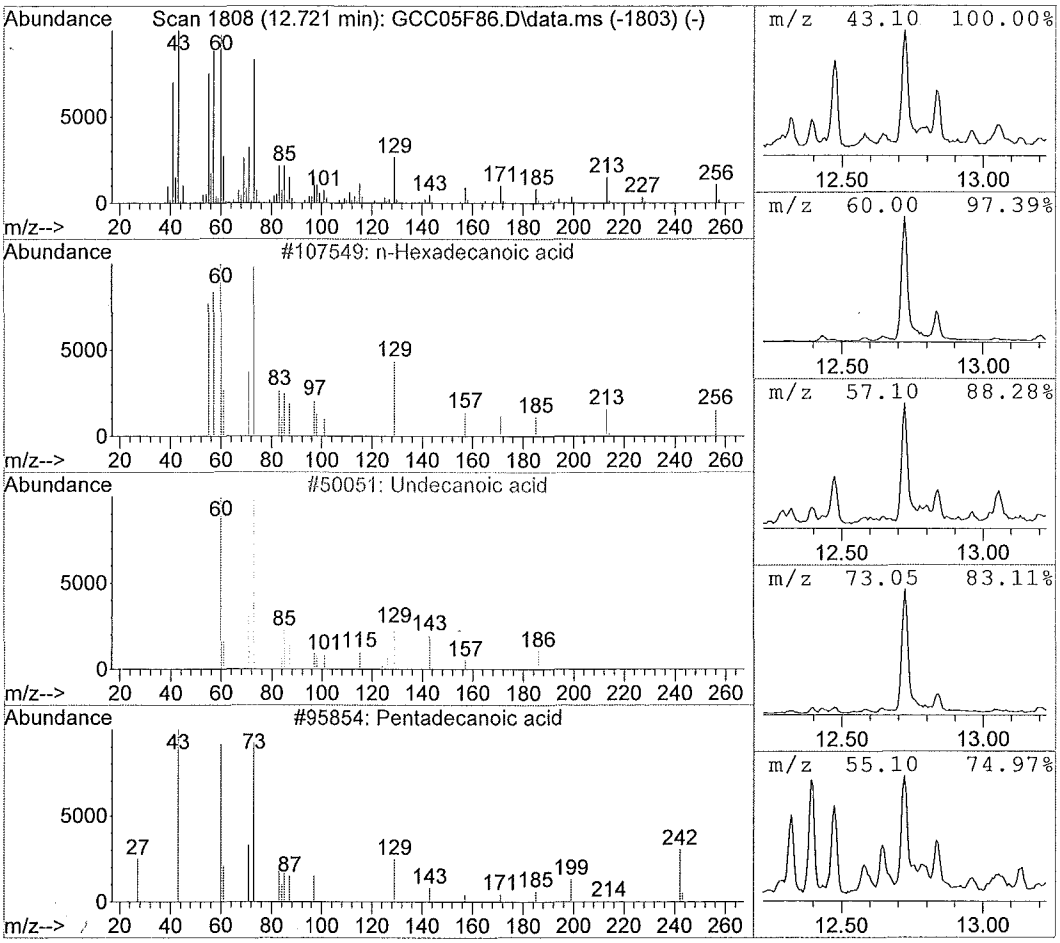


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC05F86.D Vial: 4
Acq On : 06/24/2015 09:07 Operator: SY
Sample : 1515725006 F9M86 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.72	5.43 ug/ml	842283	Phenanthrene-d10	3102812

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Undecanoic acid	50051	000112-37-8	72.00
3	Pentadecanoic acid	95854	001002-84-2	72.00
4	Tridecanoic acid	72646	000638-53-9	58.00
5	Dodecanoic acid	61117	000143-07-7	53.00

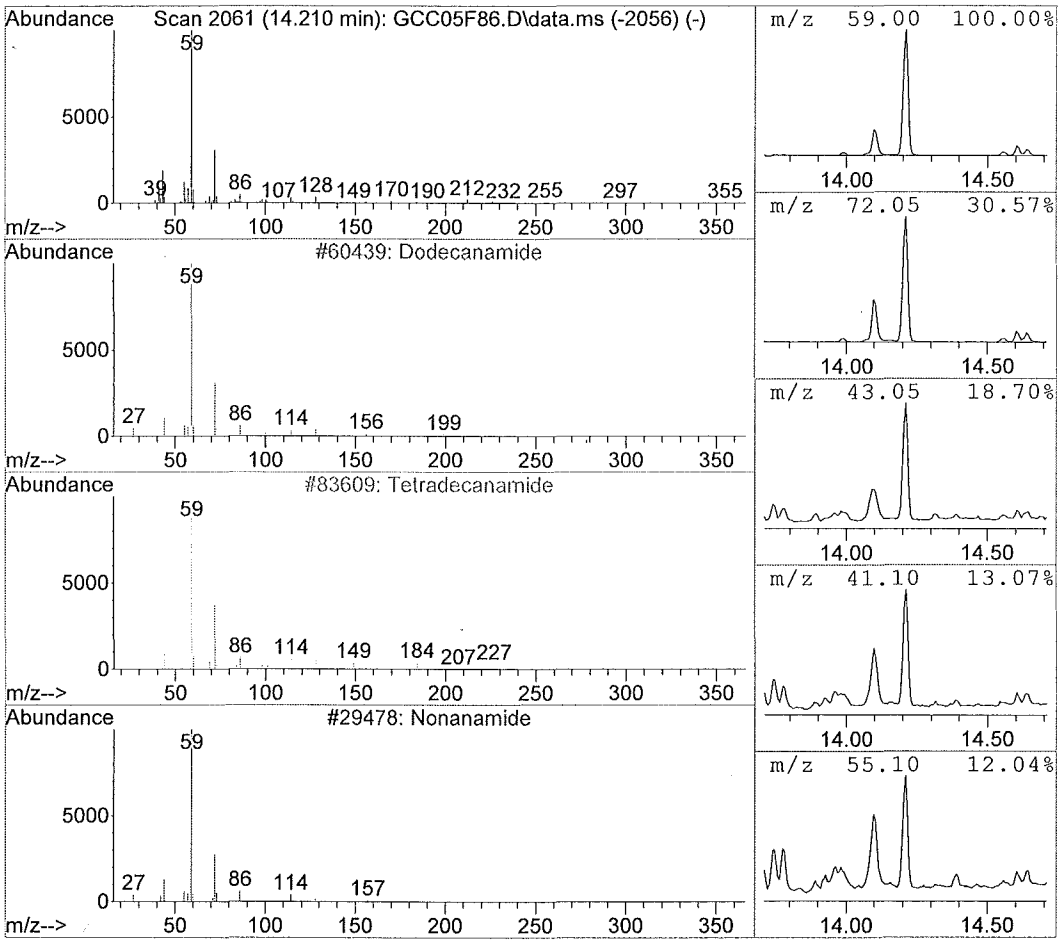


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC05F86.D Vial: 4
Acq On : 06/24/2015 09:07 Operator: SY
Sample : 1515725006 F9M86 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.21	11.86 ug/ml	1977031	Chrysene-d12	3333695

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Tetradecanamide	83609	000638-58-4	87.00
3	Nonanamide	29478	001120-07-6	83.00
4	Decanamide-	38977	002319-29-1	83.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	83.00



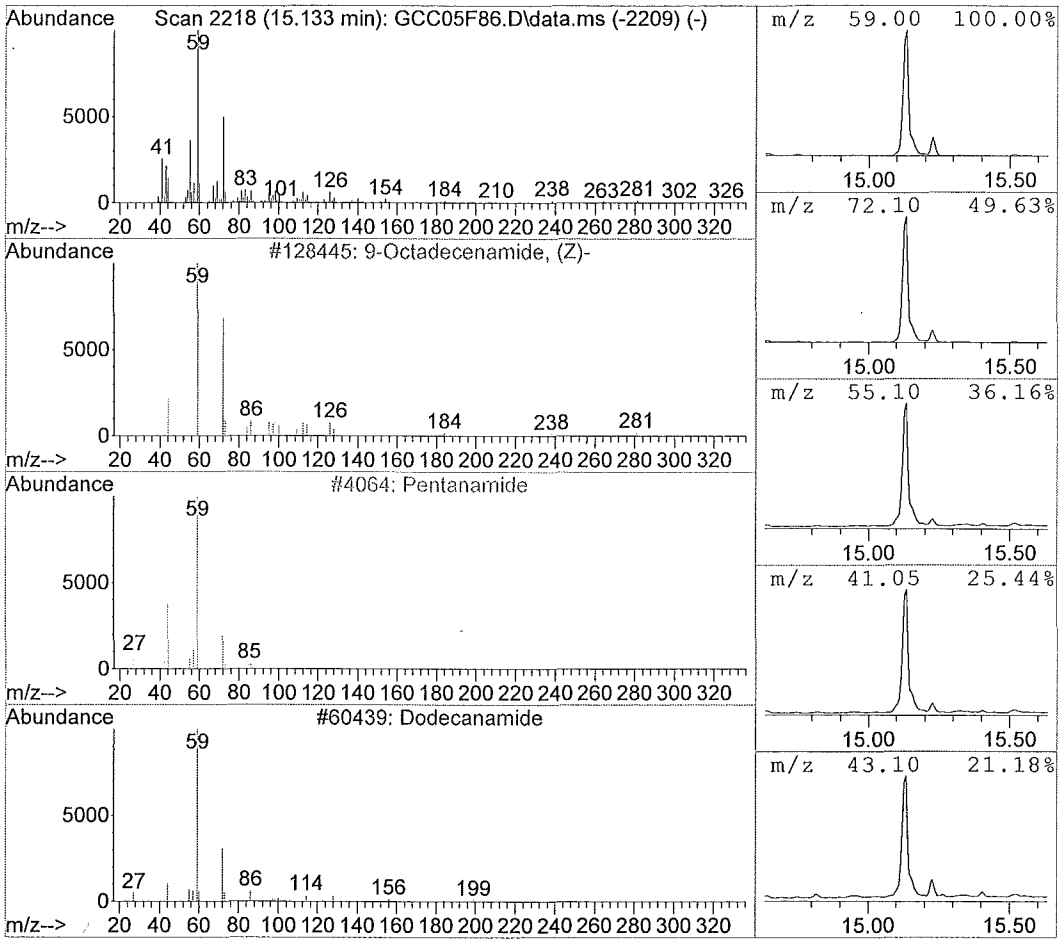
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC05F86.D Vial: 4
Acq On : 06/24/2015 09:07 Operator: SY
Sample : 1515725006 F9M86 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.13	73.48 ug/ml	12248479	Chrysene-d12	3333695

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Pentanamide	4064	000626-97-1	64.00
3	Dodecanamide	60439	001120-16-7	59.00
4	Octanamide	20317	000629-01-6	56.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	56.00

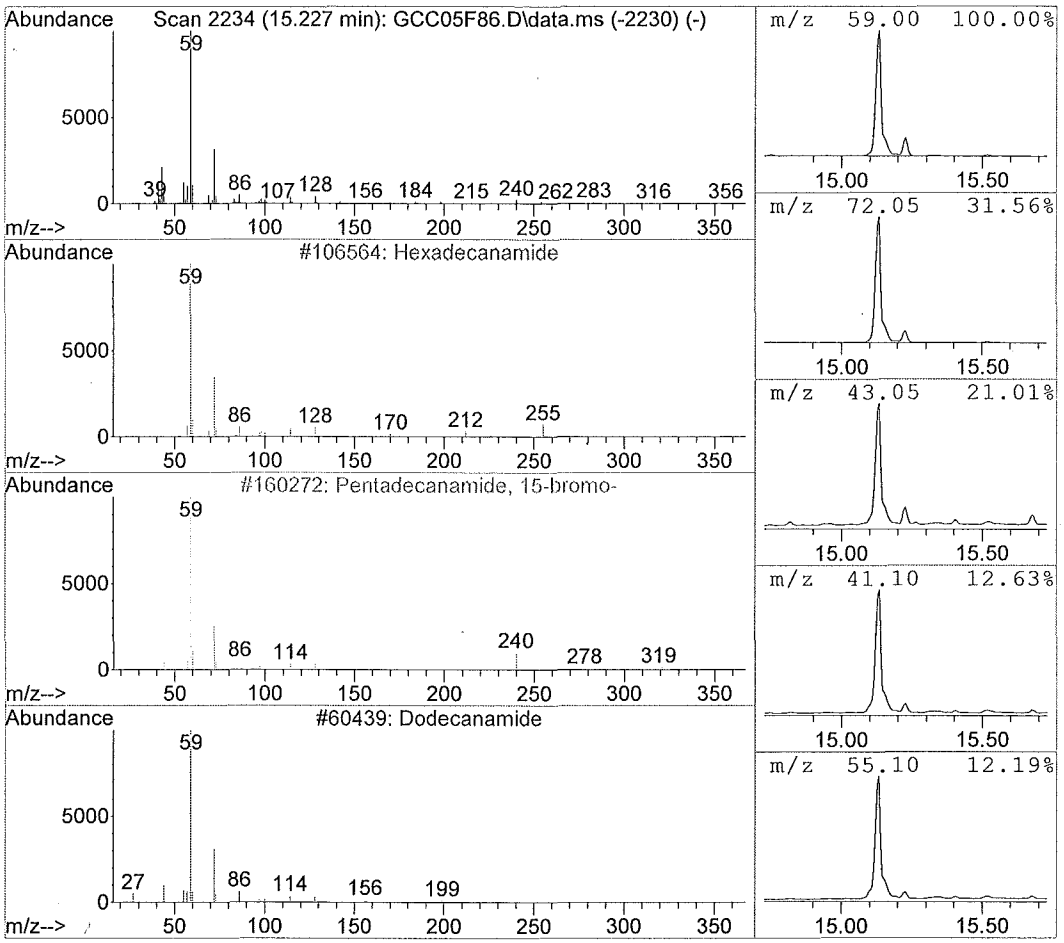


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC05F86.D Vial: 4
Acq On : 06/24/2015 09:07 Operator: SY
Sample : 1515725006 F9M86 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.23	4.60 ug/ml	766567	Chrysene-d12	3333695

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	96.00
2	Pentadecanamide, 15-bromo-	160272	1000163-86-1	90.00
3	Dodecanamide	60439	001120-16-7	83.00
4	Tetradecanamide	83608	000638-58-4	78.00
5	Nonanamide	29478	001120-07-6	72.00

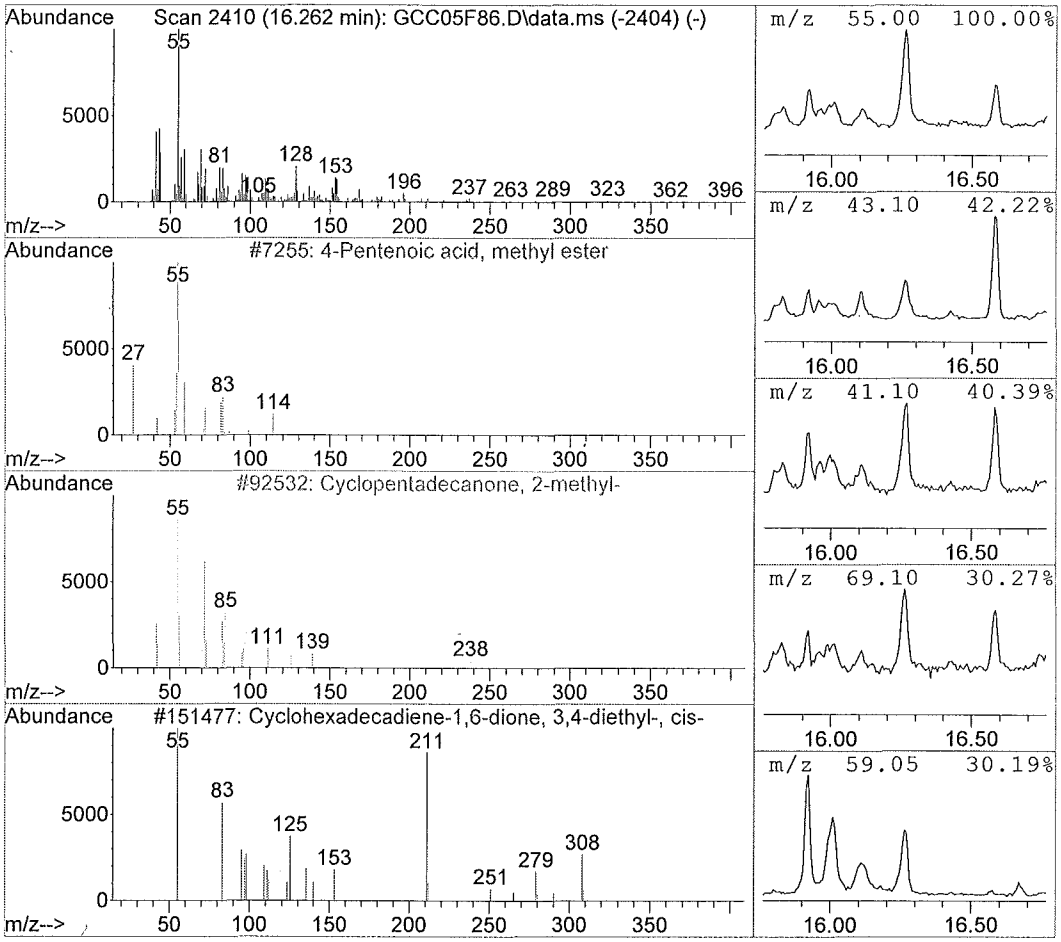


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC05F86.D Vial: 4
Acq On : 06/24/2015 09:07 Operator: SY
Sample : 1515725006 F9M86 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.26	5.25 ug/ml	874865	Chrysene-d12	3333695

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Pentenoic acid, methyl ester	7255	000818-57-5	14.00
2	Cyclopentadecanone, 2-methyl-	92532	052914-66-6	14.00
3	Cyclohexadecadiene-1,6-dione, 3,4-d	151477	015583-49-0	12.00
4	cis-2-Methyl-4-n-pentylthiane, S,S-	75454	1000215-67-9	11.00
5	1-Decene, 5-methyl-	27041	054244-79-0	11.00



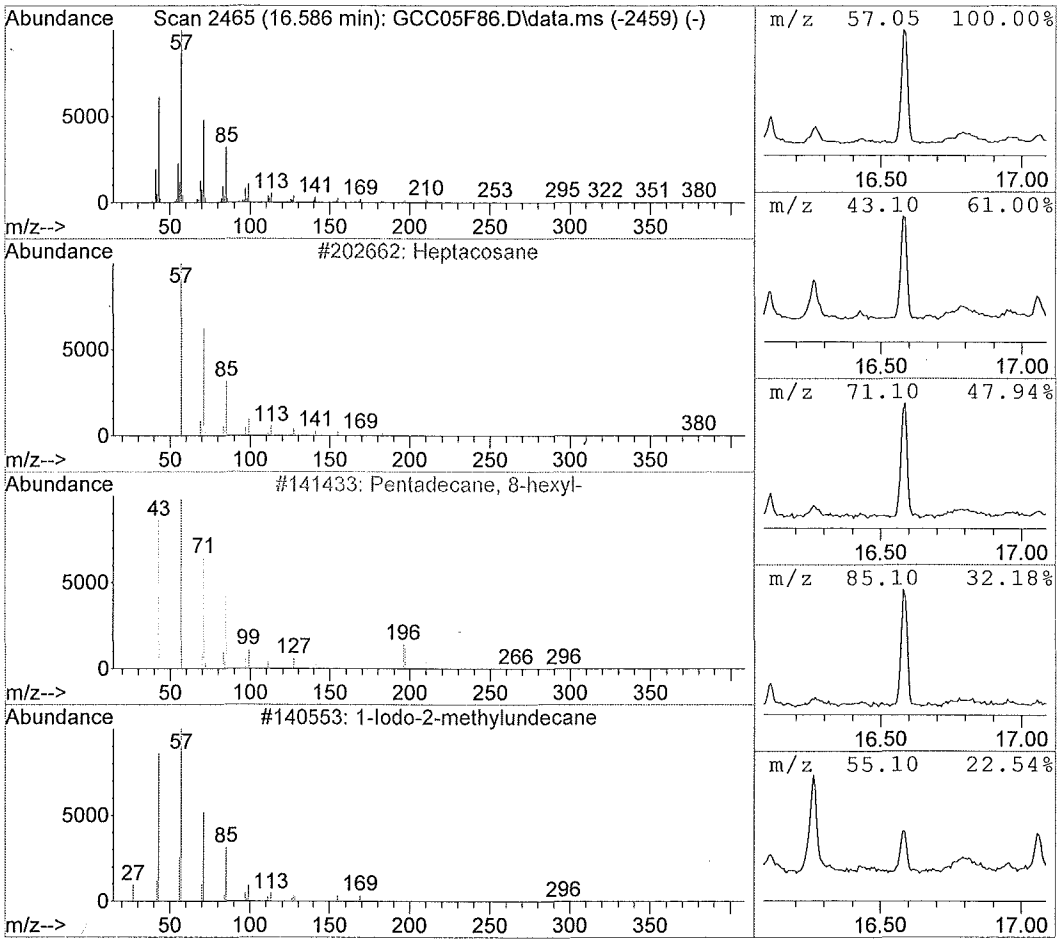
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC05F86.D Vial: 4
Acq On : 06/24/2015 09:07 Operator: SY
Sample : 1515725006 F9M86 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.59	4.93 ug/ml	821293	Chrysene-d12	3333695

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1 Heptacosane	SA	202662	000593-49-7	96.00
2 Pentadecane, 8-hexyl-		141433	013475-75-7	93.00
3 1-Iodo-2-methylundecane		140553	073105-67-6	91.00
4 Hentriacontane		223852	000630-04-6	91.00
5 Octacosane		209566	000630-02-4	87.00

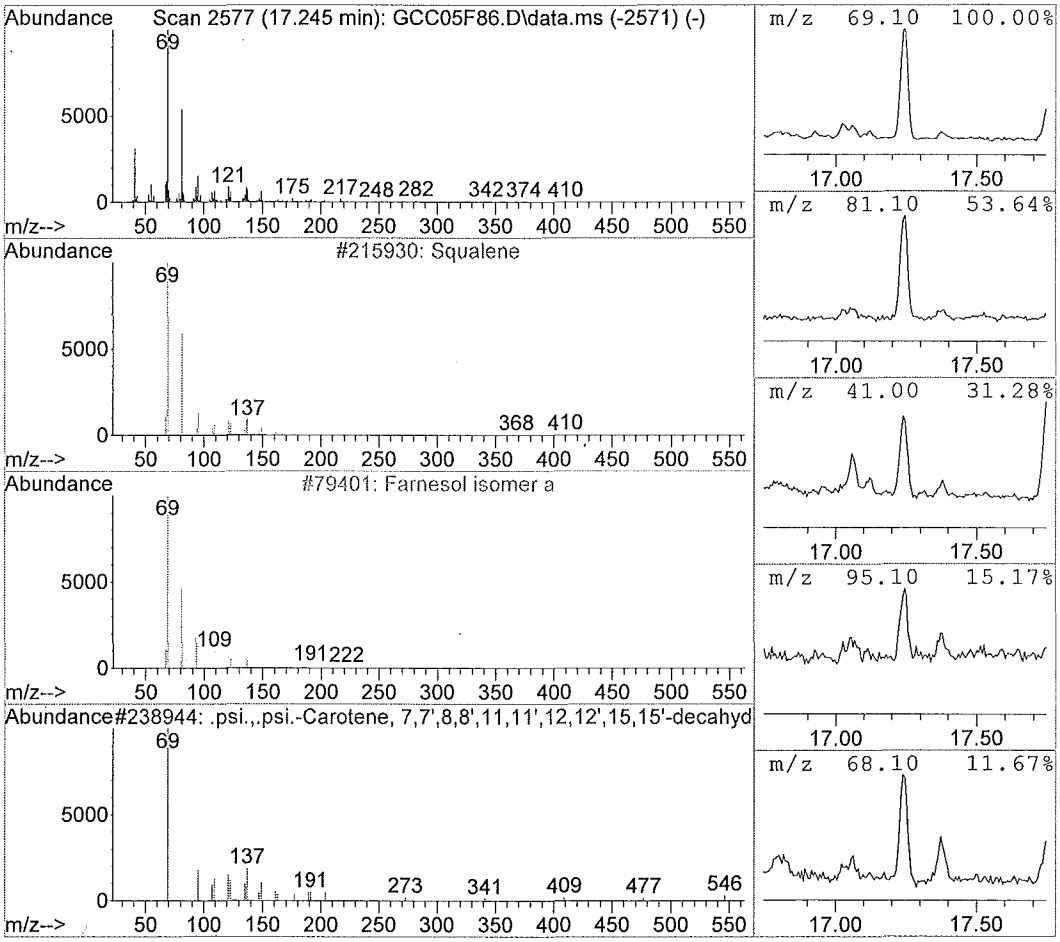


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC05F86.D Vial: 4
Acq On : 06/24/2015 09:07 Operator: SY
Sample : 1515725006 F9M86 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.24	5.39 ug/ml	662614	Perylene-d12	2456745

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Squalene	215930	000111-02-4	98.00
2	Farnesol isomer a	79401	1000108-92-4	80.00
3	.psi.,.psi.-Carotene, 7,7',8,8',11,	238944	000502-62-5	78.00
4	1,5,9-Undecatriene, 2,6,10-trimethy	54708	062951-96-6	72.00
5	2,3,5-Trimethyl-2,3,5-hexanetricarb	63358	003974-79-6	53.00



Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC05F86.D Vial: 4
Acq On : 06/24/2015 09:07 Operator: SY
Sample : 1515725006 F9M86 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.75	15.52 ug/ml	1906417	Perylene-d12	2456745

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane, 10-methyl-	141431	054833-23-7	91.00
2	Heptacosane	202662	000593-49-7	91.00
3	Hexacosane	194494	000630-01-3	91.00
4	Hentriacontane	223852	000630-04-6	90.00
5	Hexatriacontane	235973	000630-06-8	86.00

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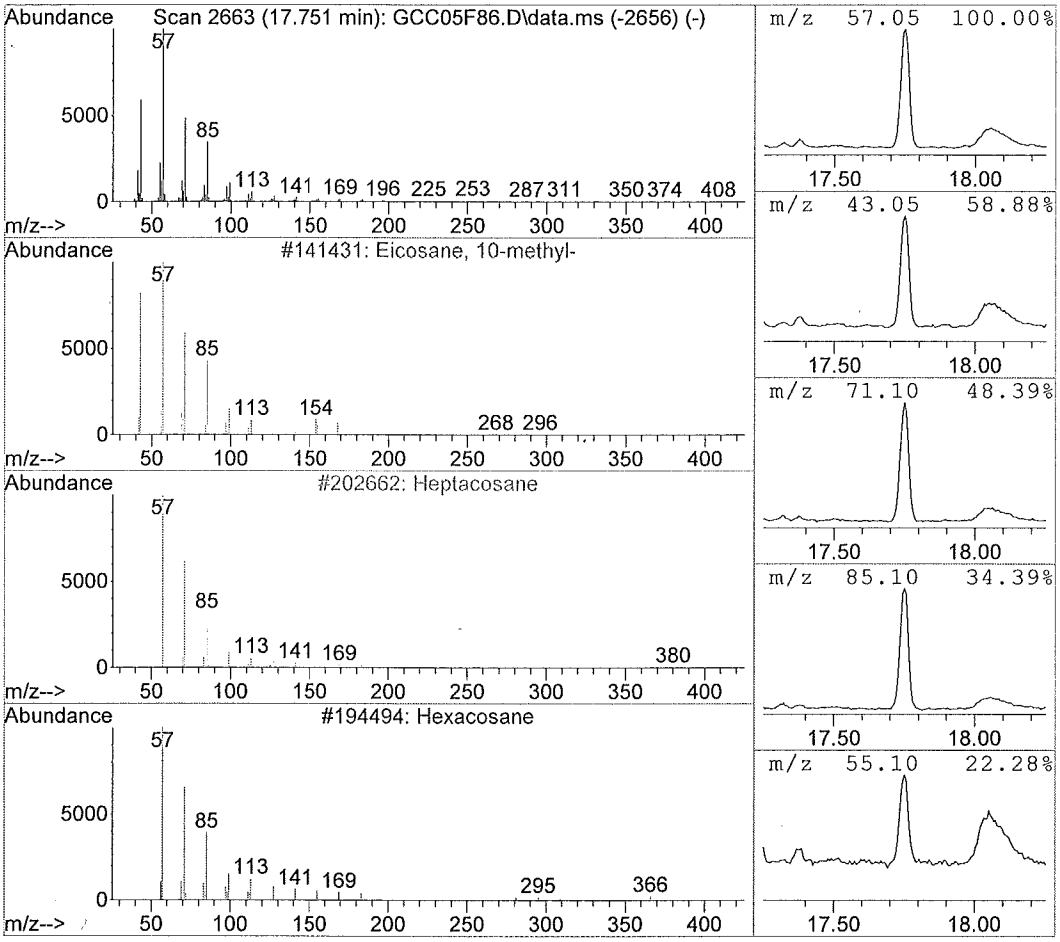

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC05F86.D Vial: 4
Acq On : 06/24/2015 09:07 Operator: SY
Sample : 1515725006 F9M86 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.39	18.38 ug/ml	2257963	Perylene-d12	2456745

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Docosane, 11-butyl-	194501	013475-76-8	95.00
2	Eicosane	129492	000112-95-8	93.00
3	Heptacosane	202662	000593-49-7	91.00
4	Heneicosane, 11-pentyl-	194505	014739-72-1	91.00
5	Docosane, 9-butyl-	194496	055282-14-9	91.00

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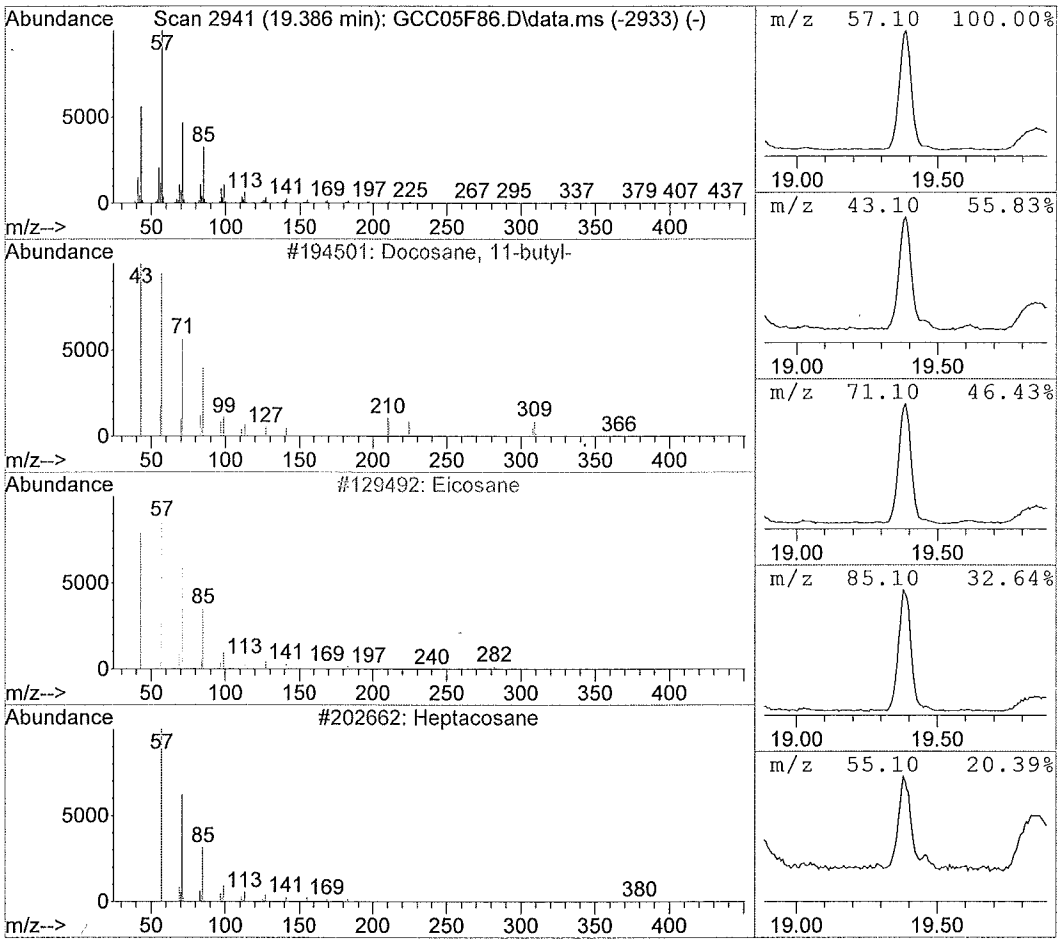
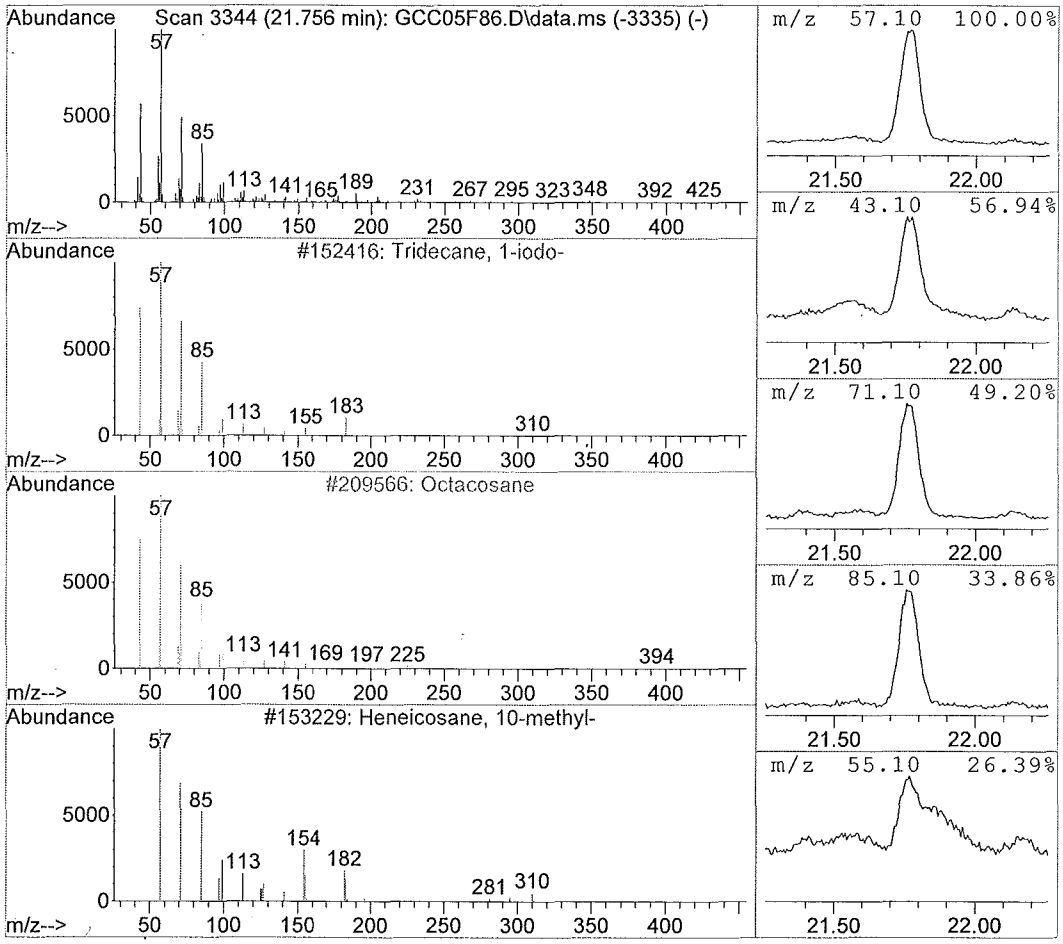


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC05F86.D Vial: 4
Acq On : 06/24/2015 09:07 Operator: SY
Sample : 1515725006 F9M86 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.76	15.88 ug/ml	1950237	Perylene-d12	2456745

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane, 1-iodo-	152416	035599-77-0	93.00
2	Octacosane	209566	000630-02-4	87.00
3	Heneicosane, 10-methyl-	153229	013287-25-7	80.00
4	Tetratetracontane	241528	007098-22-8	76.00
5	Dodecane, 4,9-dipropyl-	105901	003054-63-5	76.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M87

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725007

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCC06F87

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.5 Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	360	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	360	U
83-32-9	Acenaphthene	190	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M87

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725007

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCC06F87

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.5 Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	360	U
100-02-7	4-Nitrophenol	360	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	360	U
534-52-1	4,6-Dinitro-2-methylphenol	360	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	32.	J
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M87

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725007
Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCC06F87
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 9.5 Decanted: (Y/N) N Date Received: 06/05/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015
GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	814-78-8	3-Buten-2-one, 3-methyl-	2.23	320	JN
02		Unknown 3-Penten-2-ol	2.32	400	J
03		Unknown 1,2-Ethanediol	2.38	240	J
04		Unknown 3-Butyn-2-ol, 2-methyl-	3.14	200	J
05		Unknown 2-Pentanone, 4-hydroxy-	3.34	260	JB
06		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.55	8200	JB
07		Unknown 2(3H)-Furanone, 5-acetyldihydro-	4.23	1200	J
08		Unknown 1H-Pyrrole-2,5-dione	4.32	870	J
09		Unknown 1-Pyrrolidinecarboxaldehyde	5.03	210	J
10		Unknown 1,2,3-Propanetriol, 1-acetate	5.15	1100	J
11		Unknown Fumaric acid, nonyl tetrahydrofurfuryl e	9.73	190	J
12	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	12.32	200	JN
13	112-39-0	Hexadecanoic acid, methyl ester	12.47	330	JN
14	57-10-3	n-Hexadecanoic acid	12.73	500	JN
15	2566-97-4	9,12-Octadecadienoic acid, methyl ester, (E,E)-	13.70	170	JN
16	1000333-61-3	trans-13-Octadecenoic acid, methyl ester	13.75	230	JN
17	1120-16-7	Dodecanamide	14.21	420	JN
18	301-02-0	9-Octadecenamide, (Z)-	15.13	3900	JNB
19	629-54-9	Hexadecanamide	15.23	160	JNB
20	111-02-4	Squalene	17.24	240	JN
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	5600	J

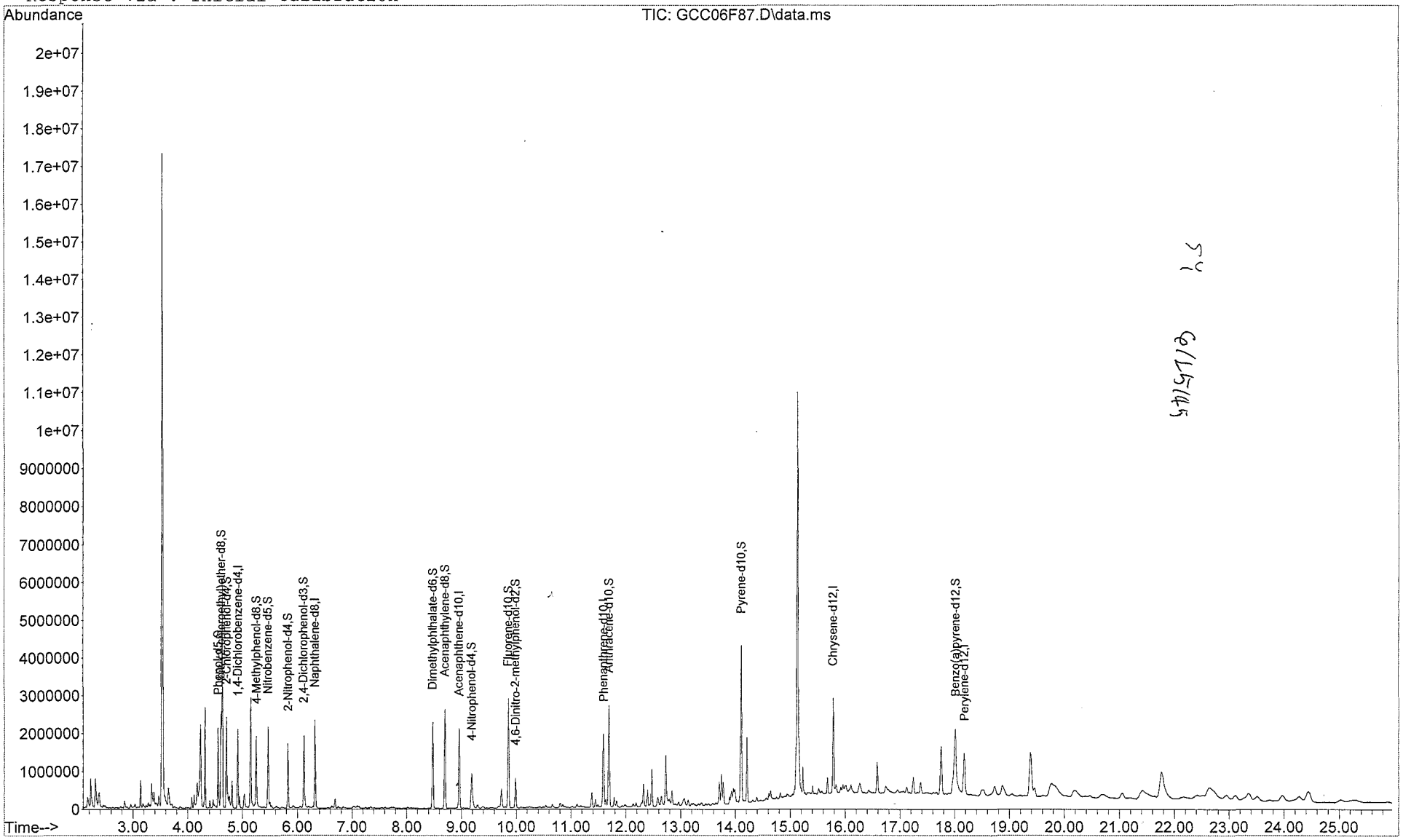
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 25 06:31:42 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration



GCC06F87.D GSOM01D6.M Thu Jun 25 06:35:12 2015 Page 3

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 06:31:42 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.92	152	317614	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1169529	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	672611	20.00 ug/ml
59) Phenanthrene-d10	11.59	188	1119251	20.00 ug/ml
73) Chrysene-d12	15.78	240	1071882	20.00 ug/ml
81) Perylene-d12	18.17	264	762108	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.56	99	716452	25.921ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	527923	24.510ug/mL
7) 2-Chlorophenol-d4	4.71	132	618482	26.503ug/ml
13) 4-Methylphenol-d8	5.25	113	415673	22.485ug/mL
17) Nitrobenzene-d5	5.46	128	278753	27.132ug/ml
21) 2-Nitrophenol-d4	5.83	143	287434	26.468ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	455044	26.910ug/mL
28) 4-Chloroaniline-d4	6.42	131	667	0.036ug/mL
42) Dimethylphthalate-d6	8.48	166	1257613	29.817ug/mL
45) Acenaphthylene-d8	8.70	160	1565140	27.306ug/mL
50) 4-Nitrophenol-d4	9.19	143	252790	29.379ug/mL
57) Fluorene-d10	9.86	176	1063108	29.515ug/mL
61) 4,6-Dinitro-2-methylphenol	9.99	200	135492	17.055ug/mL
69) Anthracene-d10	11.69	188	1577010	26.569ug/mL
75) Pyrene-d10	14.10	212	1566314	29.281ug/mL
86) Benzo(a)pyrene-d12	18.01	264	939284	25.721ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

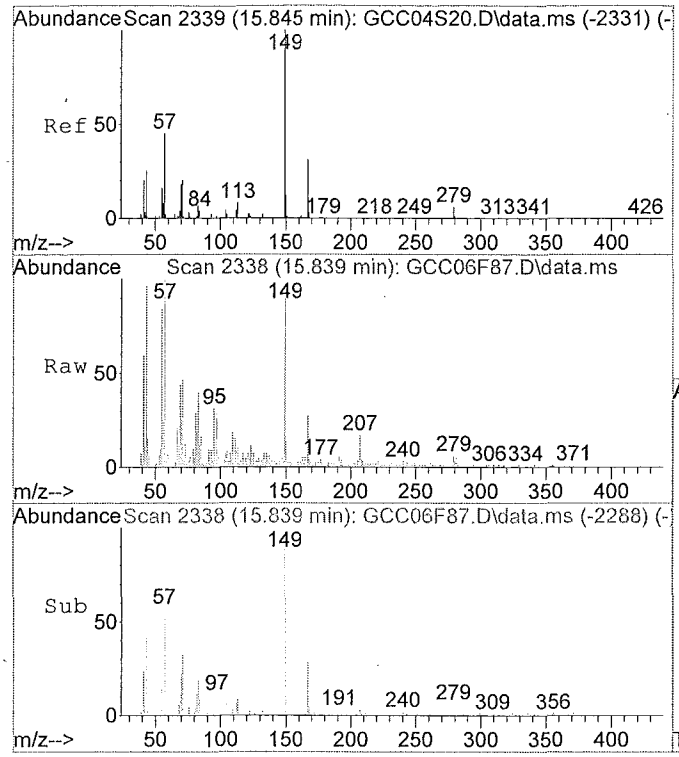
Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 06:31:42 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	0.00	152		Not Detected	
46)	3-Nitroaniline	0.00	138		Not Detected	
47)	Acenaphthene	0.00	153		Not Detected	
48)	2,4-Dinitrophenol	0.00	184		Not Detected	
49)	4-Nitrophenol	0.00	109		Not Detected	
51)	Dibenzofuran	0.00	168		Not Detected	
52)	2,4-Dinitrotoluene	0.00	165		Not Detected	
53)	2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54)	Diethylphthalate	0.00	149		Not Detected	
55)	4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56)	Fluorene	0.00	166		Not Detected	
58)	4-Nitroaniline	0.00	138		Not Detected	
60)	4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62)	N-Nitrosodiphenylamine	0.00	169		Not Detected	
63)	4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64)	Hexachlorobenzene	0.00	284		Not Detected	
65)	Atrazine	0.00	200		Not Detected	
66)	Pentachlorophenol	0.00	266		Not Detected	
67)	Phenanthrene	0.00	178		Not Detected	
68)	Anthracene	0.00	178		Not Detected	
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	0.00	202		Not Detected	
74)	Pyrene	0.00	202		Not Detected	
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	0.00	228		Not Detected	
79)	Chrysene	0.00	228		Not Detected	
80)	Bis-(2-ethylhexyl)phthalat	15.84	149	46620	0.879ug/ml	97
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	0.00	252		Not Detected	
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	0.00	252		Not Detected	
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

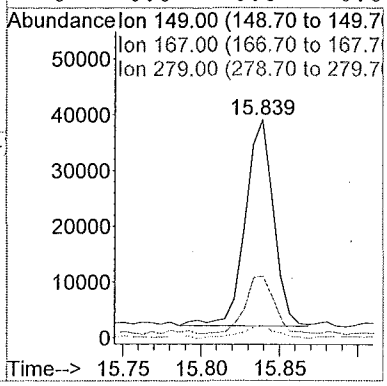
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#80
Bis-(2-ethylhexyl)phthalate
Concen: 0.88 ug/ml
RT: 15.84 min Scan# 2338
Delta R.T. -0.01 min
Lab File: GCC06F87.D
Acq: 06/24/2015 09:40

Tgt Ion:149 Resp: 46620

Ion	Ratio	Lower	Upper
149	100		
167	29.7	22.0	40.8
279	7.0	5.0	9.2
0	0.0	0.0	0.0



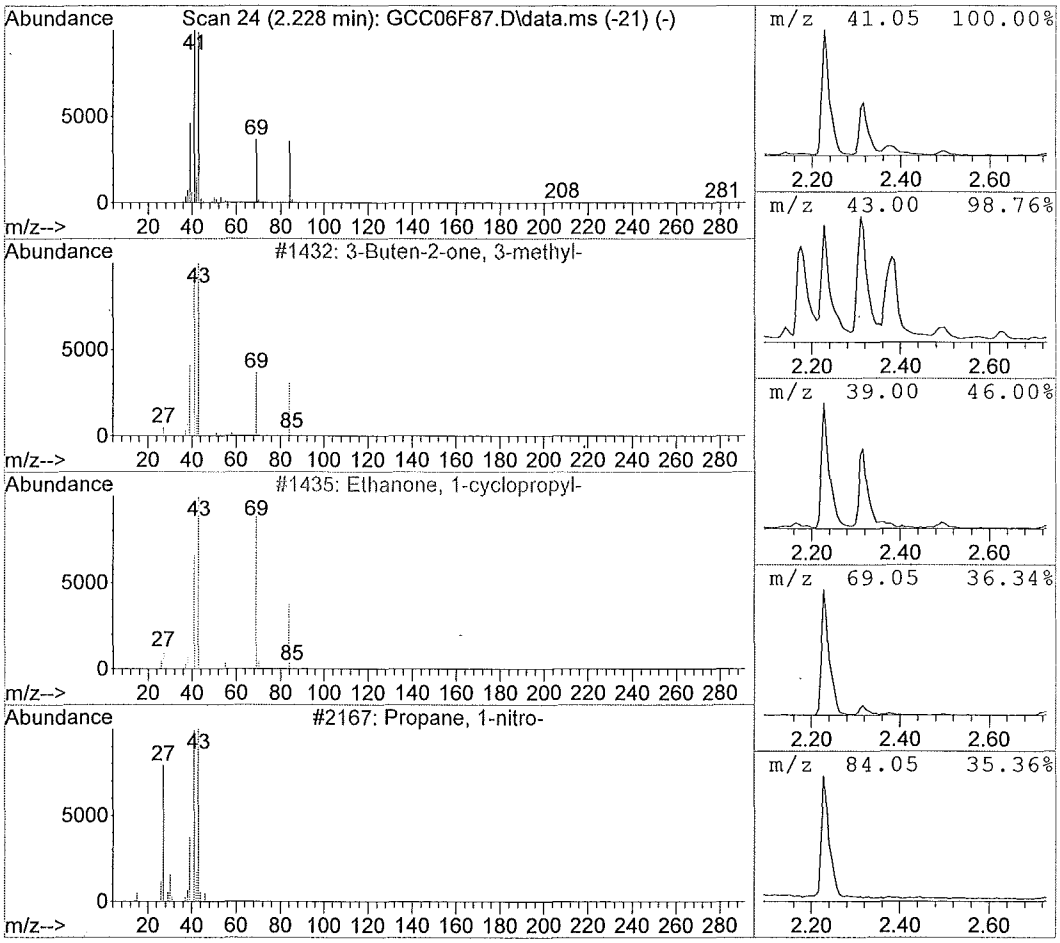
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.23	8.63 ug/ml	957600	1,4-Dichlorobenzene-d4	2220157

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Buten-2-one, 3-methyl-	1432	000814-78-8	91.00
2	Ethanone, 1-cyclopropyl-	1435	000765-43-5	47.00
3	Propane, 1-nitro-	2167	000108-03-2	45.00
4	Dicyclopropyl carbinol	6505	014300-33-5	33.00
5	3-Penten-2-one	1397	000625-33-2	25.00

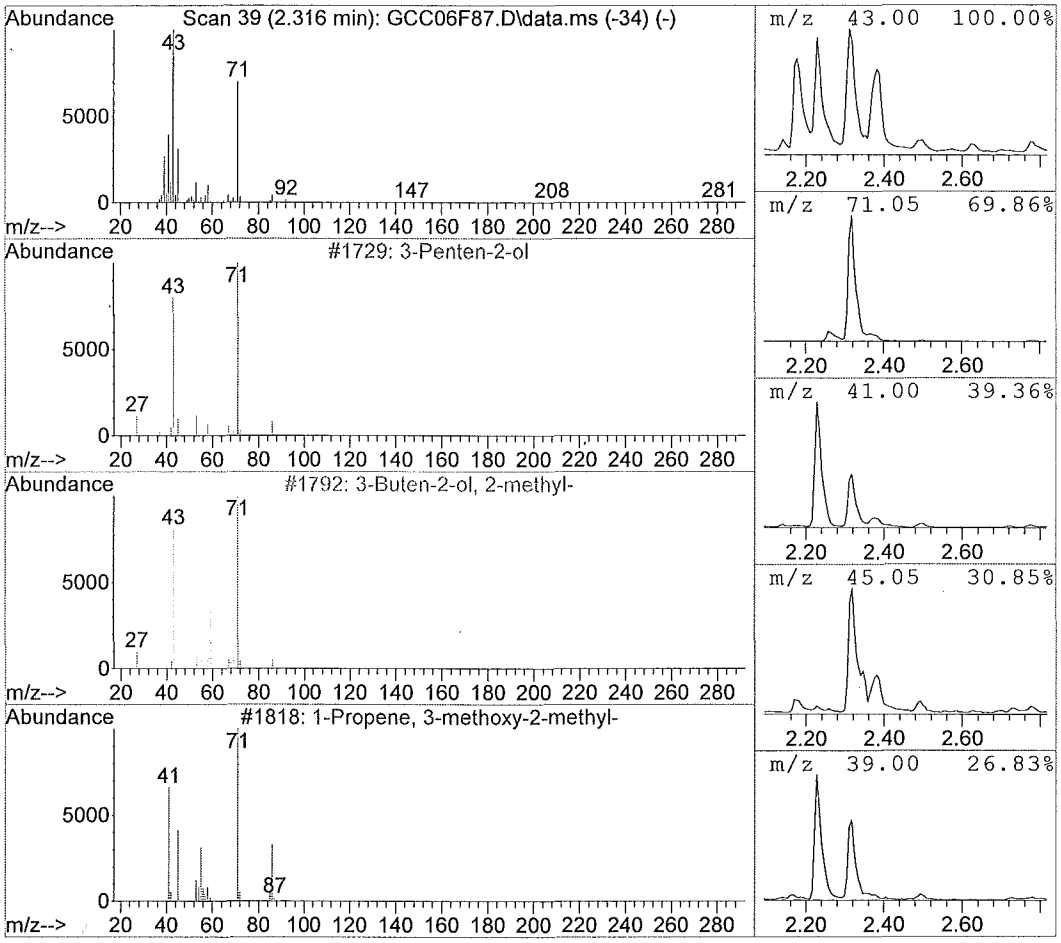


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.32	10.83 ug/ml	1201741	1,4-Dichlorobenzene-d4	2220157

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Penten-2-ol	1729	001569-50-2	50.00
2	3-Buten-2-ol, 2-methyl-	1792	000115-18-4	42.00
3	1-Propene, 3-methoxy-2-methyl-	1818	022418-49-1	40.00
4	1-Hexene, 4,5-dimethyl-	6722	016106-59-5	40.00
5	Butanoic acid, anhydride	30002	000106-31-0	38.00

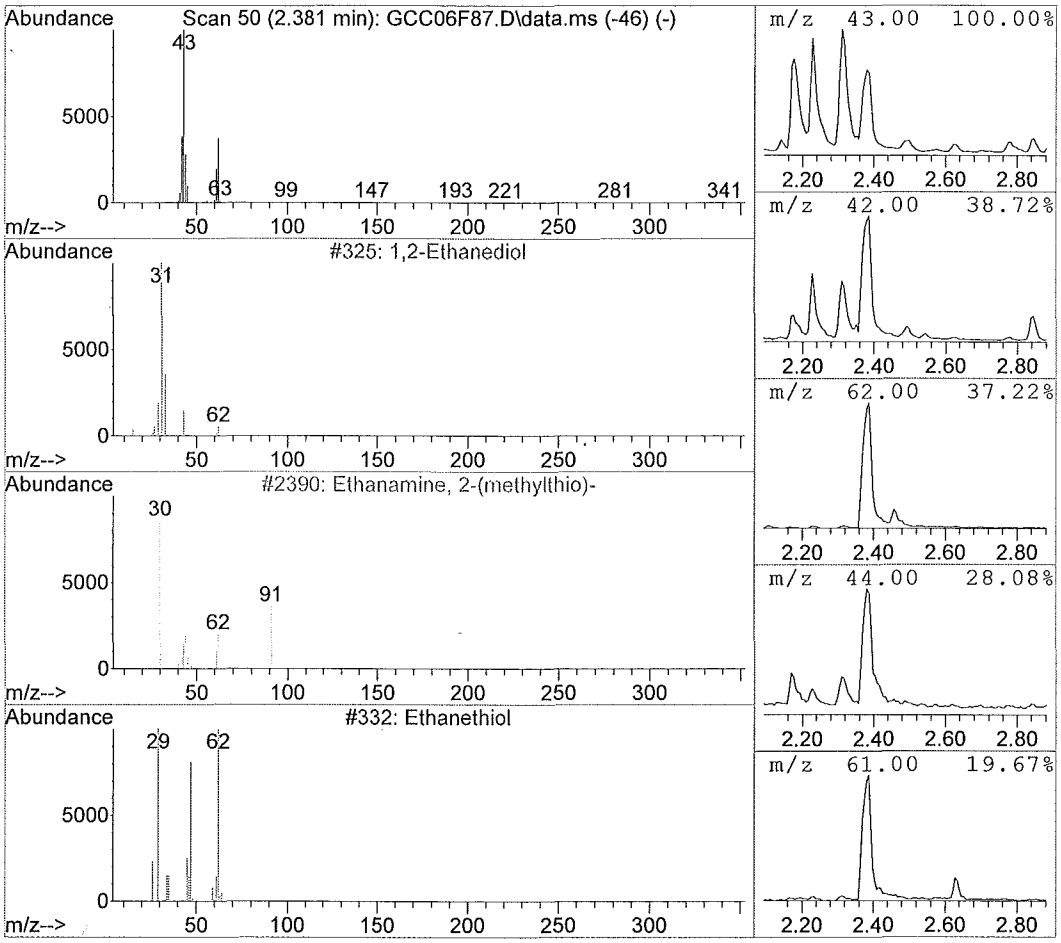


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.38	6.54 ug/ml	725636	1,4-Dichlorobenzene-d4	2220157

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Ethanediol	325	000107-21-1	45.00
2	Ethanamine, 2-(methylthio)-	2390	018542-42-2	9.00
3	Ethanethiol	332	000075-08-1	7.00
4	Peroxide, dimethyl	330	000690-02-8	7.00
5	Ethene, chloro-	323	000075-01-4	5.00

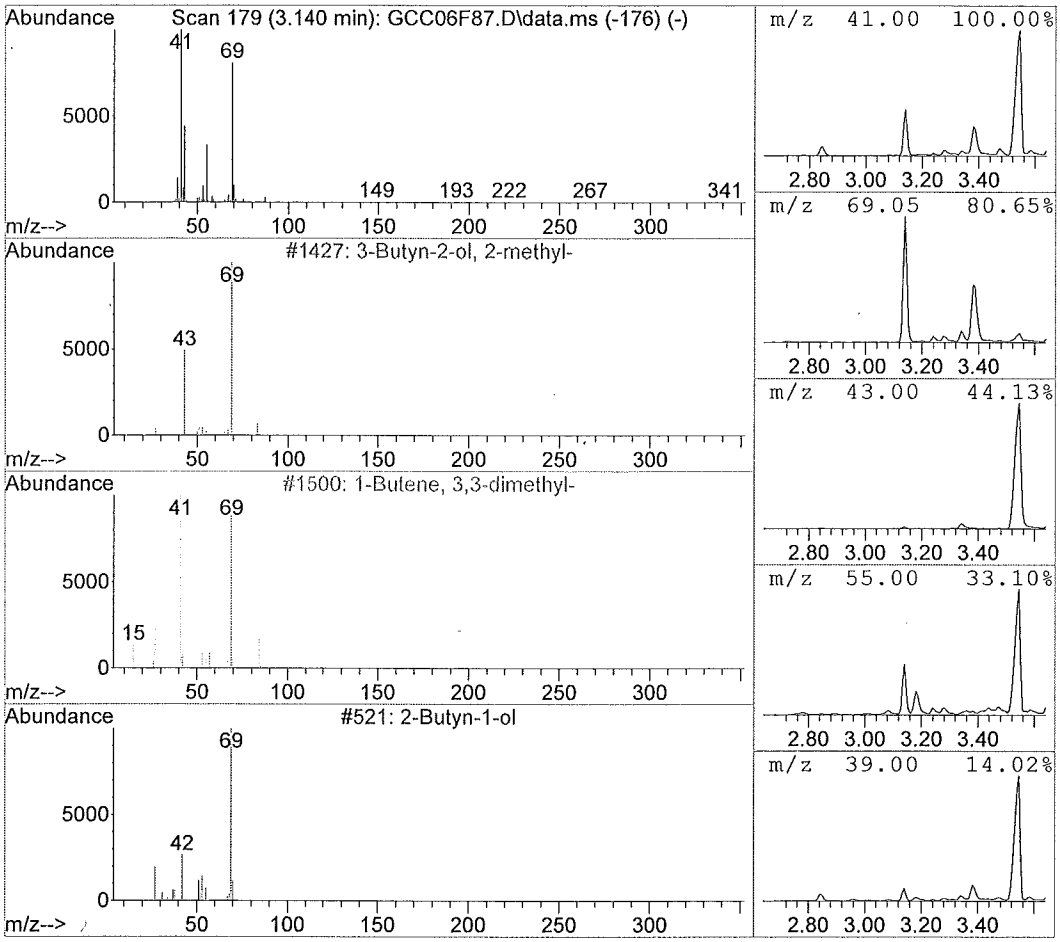


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.14	5.48 ug/ml	608161	1,4-Dichlorobenzene-d4	2220157

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Butyn-2-ol, 2-methyl-	1427	000115-19-5	9.00
2	1-Butene, 3,3-dimethyl-	1500	000558-37-2	9.00
3	2-Butyn-1-ol	521	000764-01-2	7.00
4	Cyanamide, dimethyl-	504	001467-79-4	7.00
5	Isoxazole	475	000288-14-2	5.00

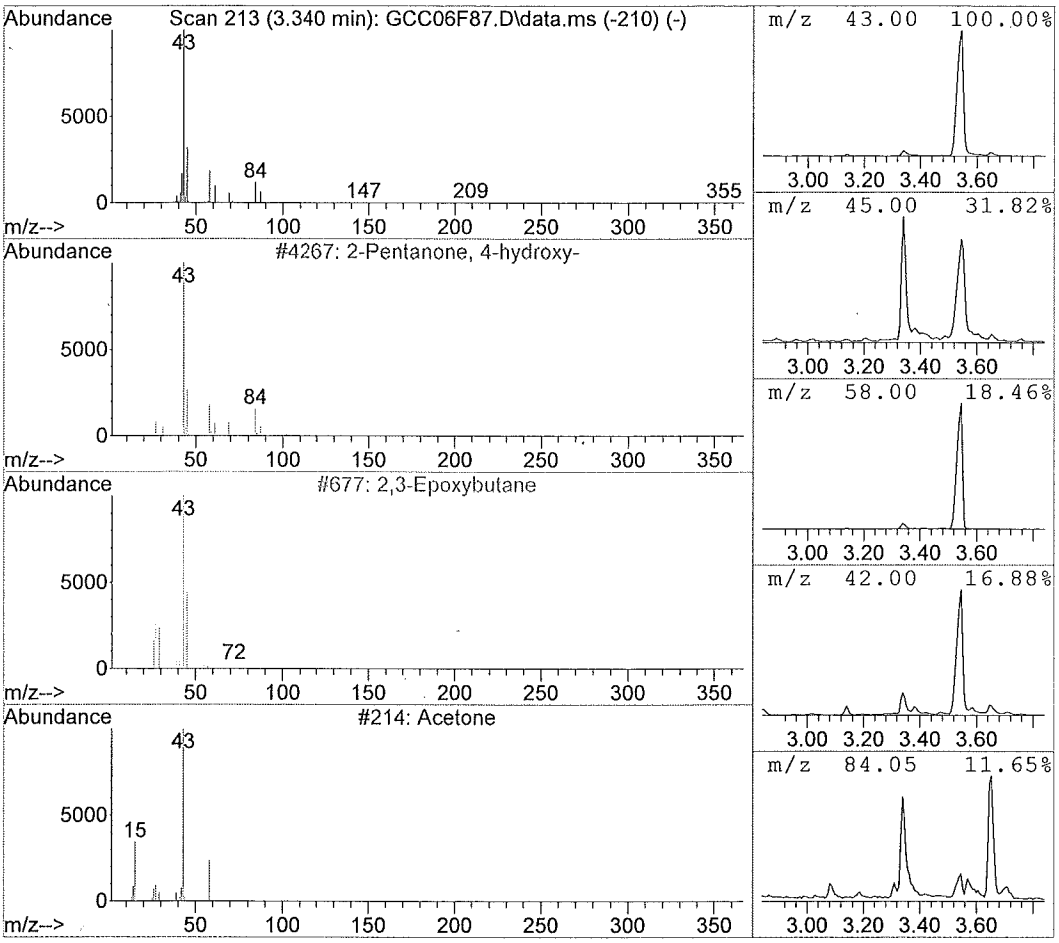


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.34	7.14 ug/ml	792426	1,4-Dichlorobenzene-d4	2220157

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	39.00
2	2,3-Epoxybutane	677	003266-23-7	17.00
3	Acetone	214	000067-64-1	9.00
4	Butane	233	000106-97-8	9.00
5	Nitric acid, nonyl ester	52650	020633-13-0	9.00



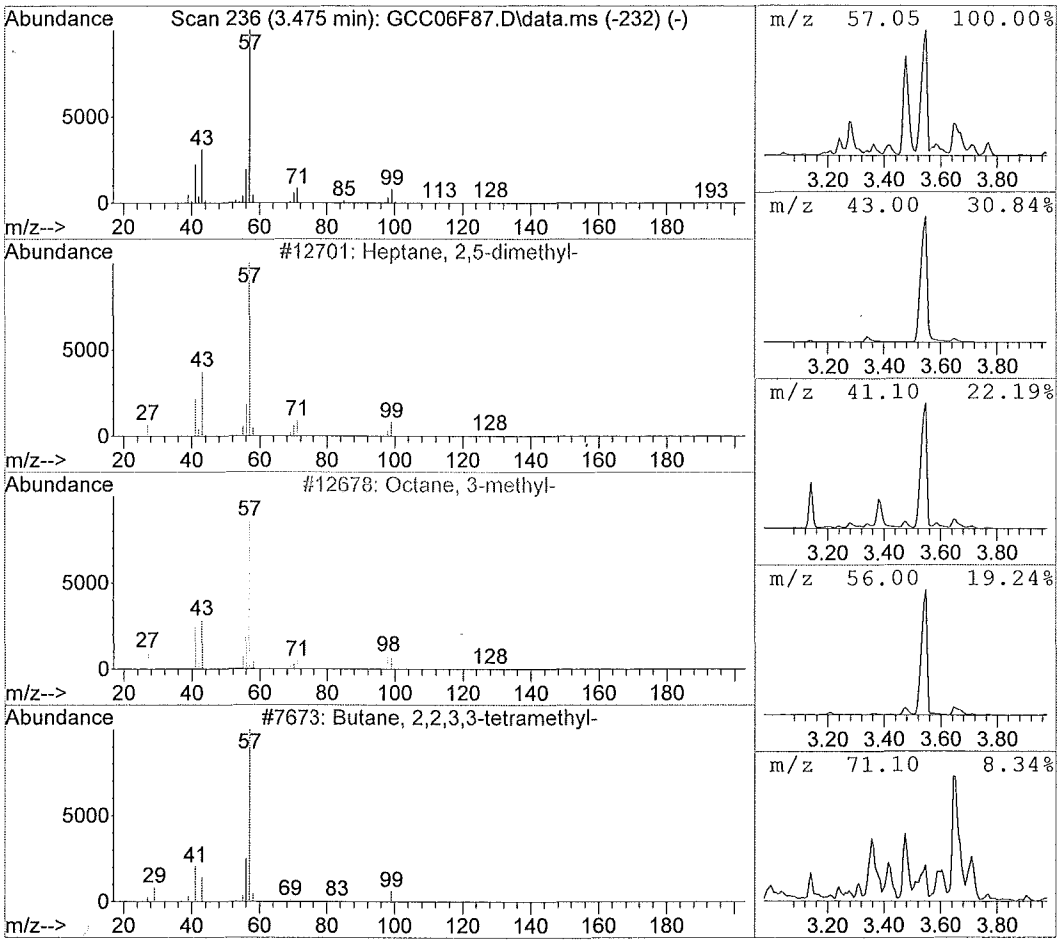
Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.48	2.80 ug/ml	311277	1,4-Dichlorobenzene-d4	2220157

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,5-dimethyl-	12701	002216-30-0	72.00
2	Octane, 3-methyl-	12678	002216-33-3	64.00
3	Butane, 2,2,3,3-tetramethyl-	7673	000594-82-1	59.00
4	Heptane, 3,5-dimethyl-	12698	000926-82-9	46.00
5	Decane, 2,6,6-trimethyl-	48891	062108-24-1	45.00

BA

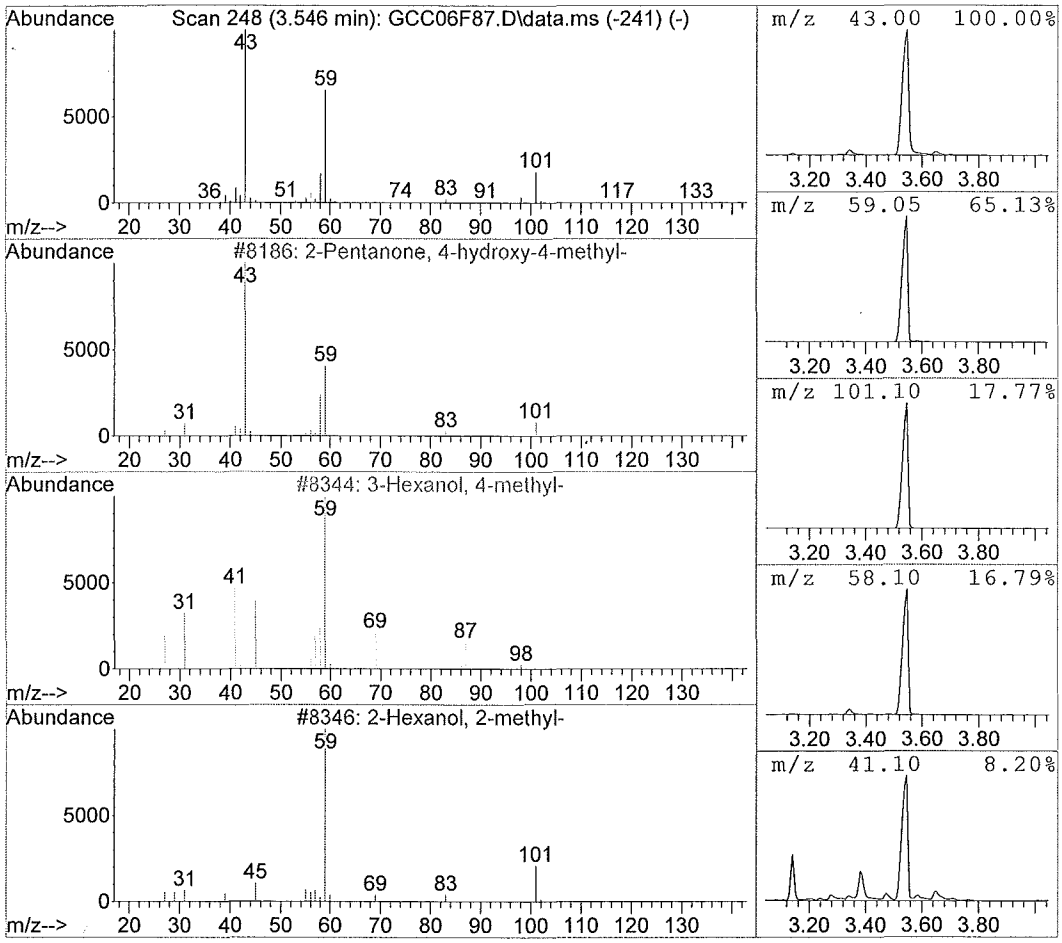


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.55	222.23 ug/ml	24669428	1,4-Dichlorobenzene-d4	2220157

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
2	3-Hexanol, 4-methyl-	8344	000615-29-2	33.00
3	2-Hexanol, 2-methyl-	8346	000625-23-0	28.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	23.00
5	Guanidine	258	000113-00-8	9.00



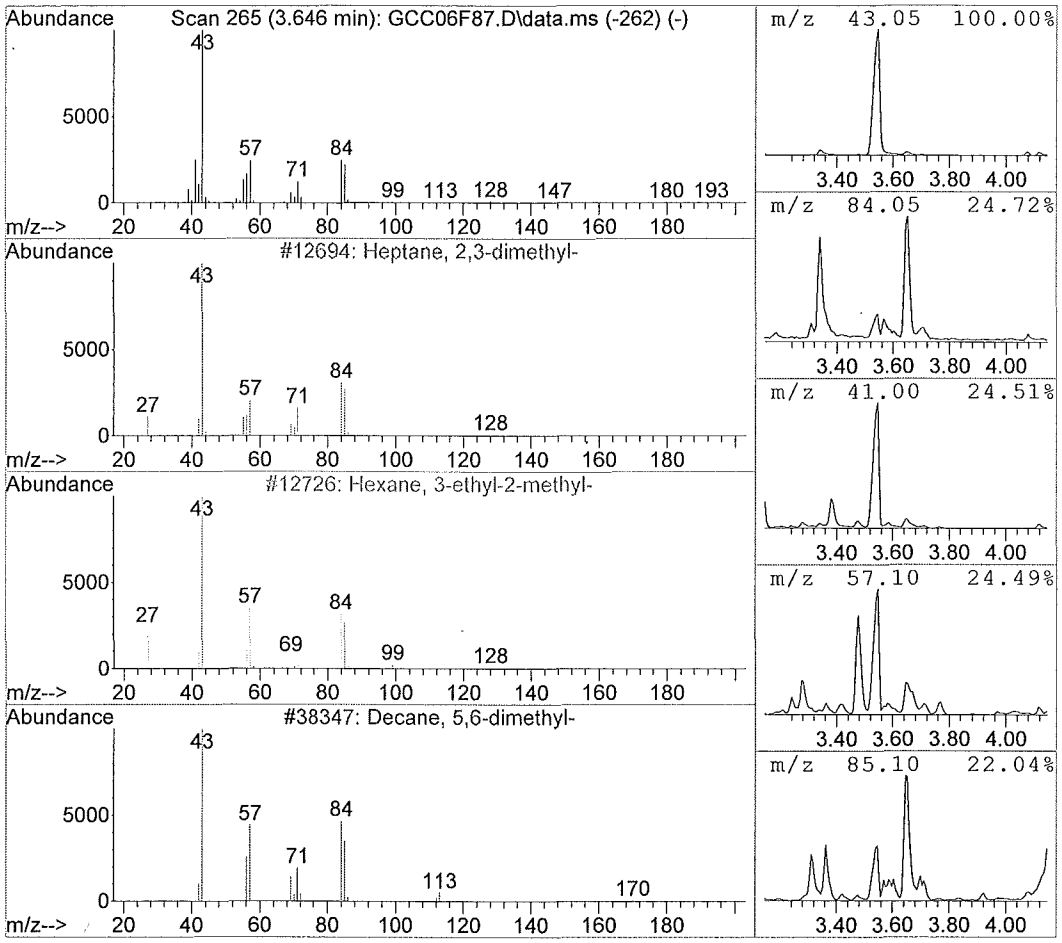
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.65	6.43 ug/ml	714301	1,4-Dichlorobenzene-d4	2220157

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12694	003074-71-3	91.00
2	Hexane, 3-ethyl-2-methyl- BA	12726	016789-46-1	83.00
3	Decane, 5,6-dimethyl-	38347	001636-43-7	74.00
4	1-Octene, 4-methyl-	11522	013151-12-7	72.00
5	Heptane, 2,4-dimethyl-	12697	002213-23-2	53.00



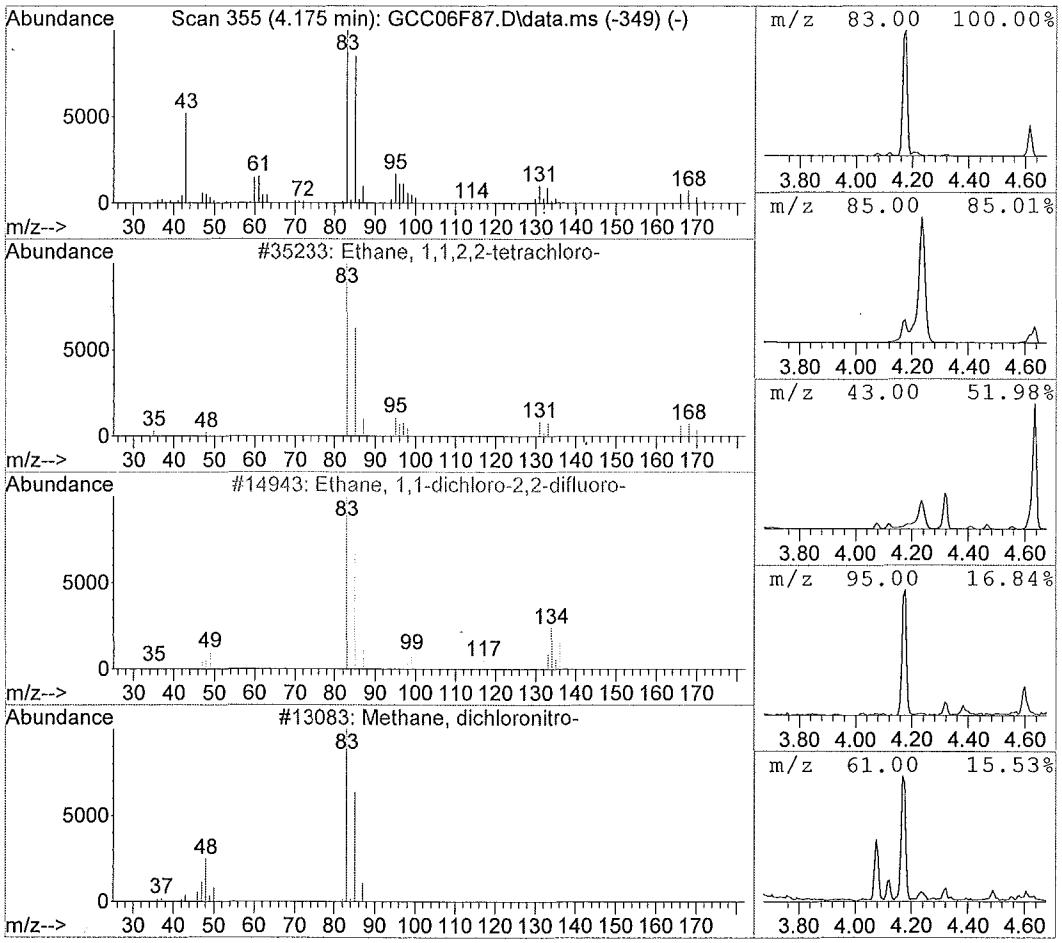
Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.18	9.31 ug/ml	1033206	1,4-Dichlorobenzene-d4	2220157

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	35233	000079-34-5	94.00
2	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	45.00
3	Methane, dichloronitro-	13083	007119-89-3	42.00
4	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	40.00
5	Butanoic acid, 3-oxo-, 2,2,2-trichl	87859	058547-15-2	32.00

VOA

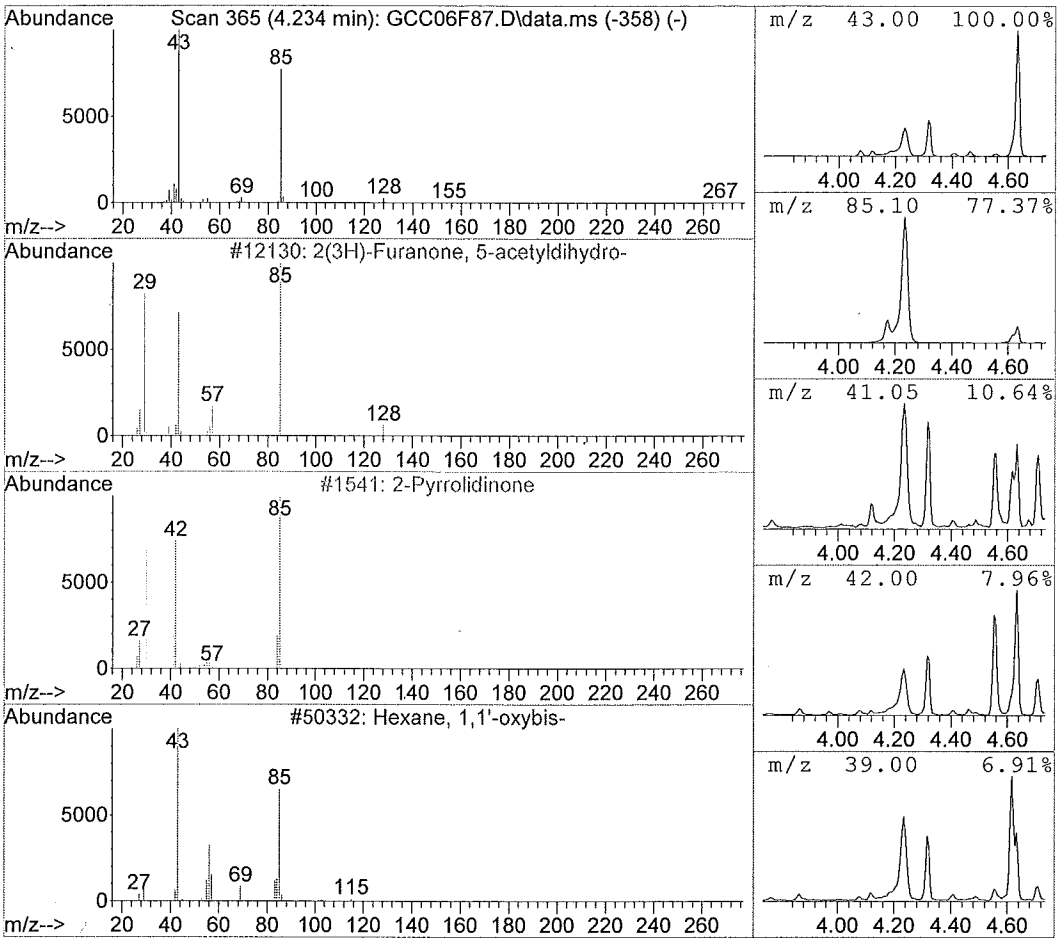


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.23	32.99 ug/ml	3661938	1,4-Dichlorobenzene-d4	2220157

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2(3H)-Furanone, 5-acetyldihydro-	12130	029393-32-6	50.00
2	2-Pyrrolidinone	1541	000616-45-5	42.00
3	Hexane, 1,1'-oxybis-	50332	000112-58-3	40.00
4	4-Methoxy-3-buten-2-one	3689	004652-27-1	38.00
5	2(3H)-Furanone, dihydro-5-propyl-	12280	000105-21-5	9.00

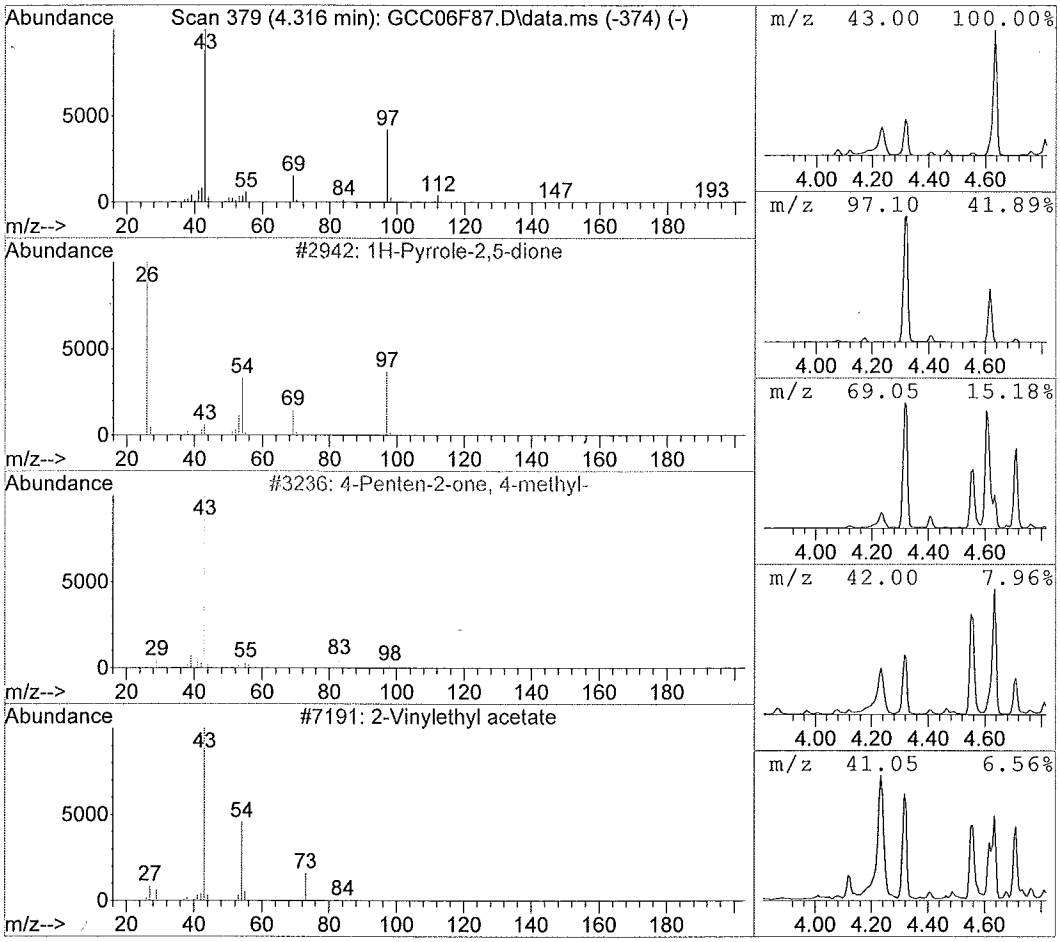


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.32	23.64 ug/ml	2624616	1,4-Dichlorobenzene-d4	2220157

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	42.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	2-Vinylethyl acetate	7191	001576-84-7	9.00
4	5-Hexen-2-one	3152	000109-49-9	9.00
5	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00



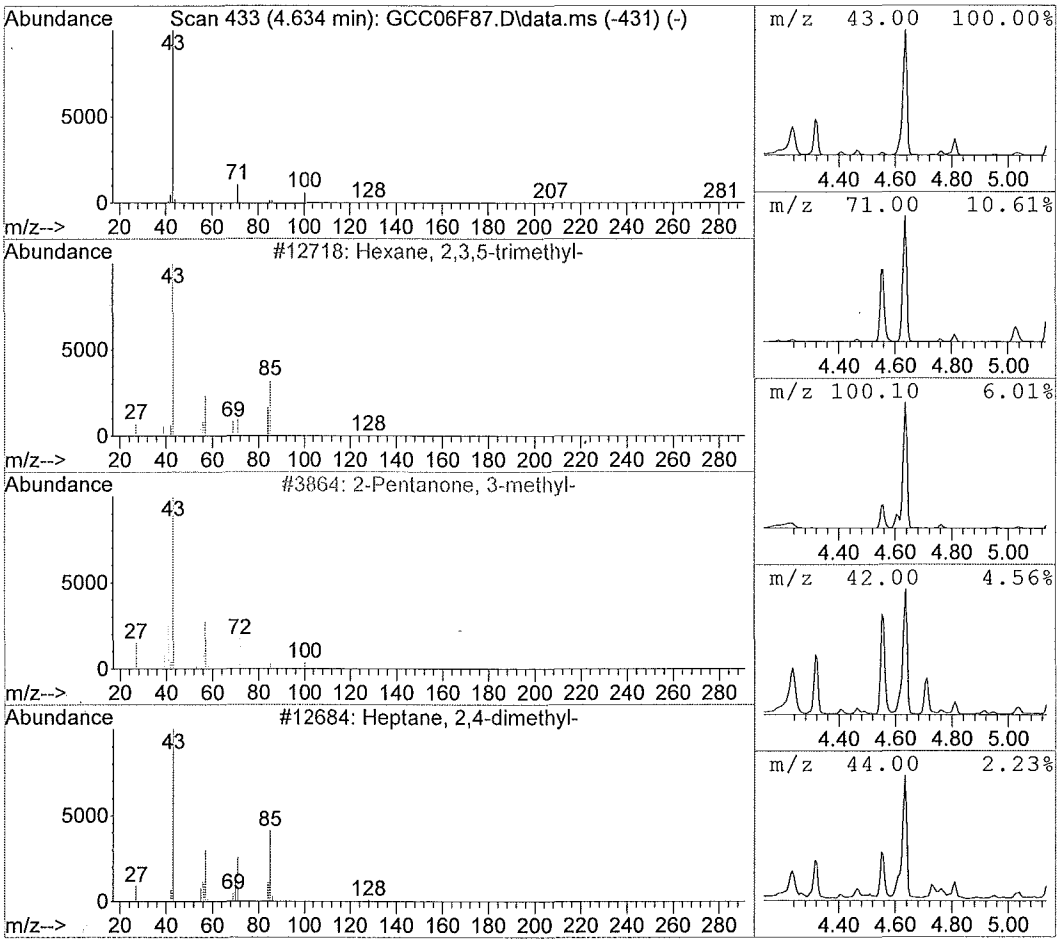
Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.63	45.18 ug/ml	5015138	1,4-Dichlorobenzene-d4	2220157

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
2	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
3	Heptane, 2,4-dimethyl-	12684	002213-23-2	5.00
4	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00
5	Heptane	3973	000142-82-5	4.00

BA



Library Search Compound Report

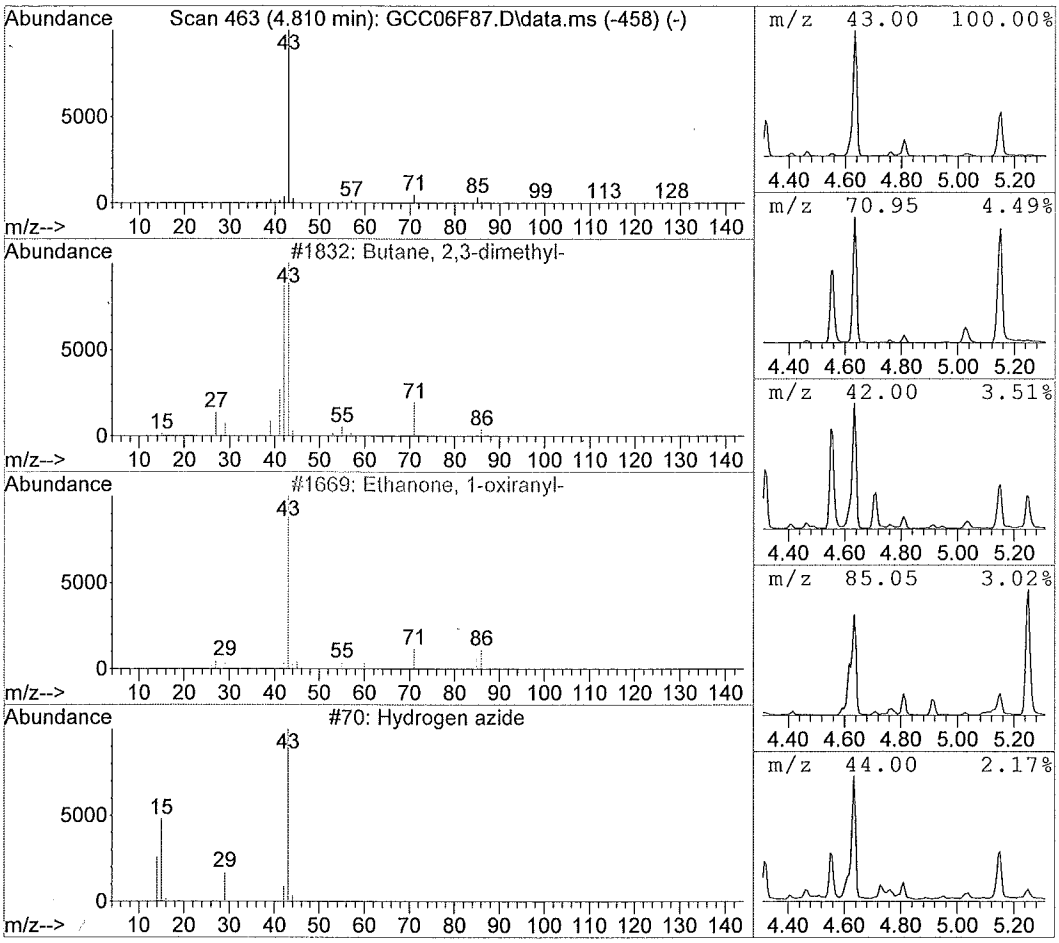
Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.81	7.04 ug/ml	781901	1,4-Dichlorobenzene-d4	2220157

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Butane, 2,3-dimethyl-	1832	000079-29-8	3.00
2	Ethanone, 1-oxiranyl-	1669	004401-11-0	2.00
3	Hydrogen azide	70	007782-79-8	2.00
4	Pentane, 2-methyl-	1823	000107-83-5	2.00
5	2,3-Pentanedione, 4-methyl-	7224	007493-58-5	2.00

BA

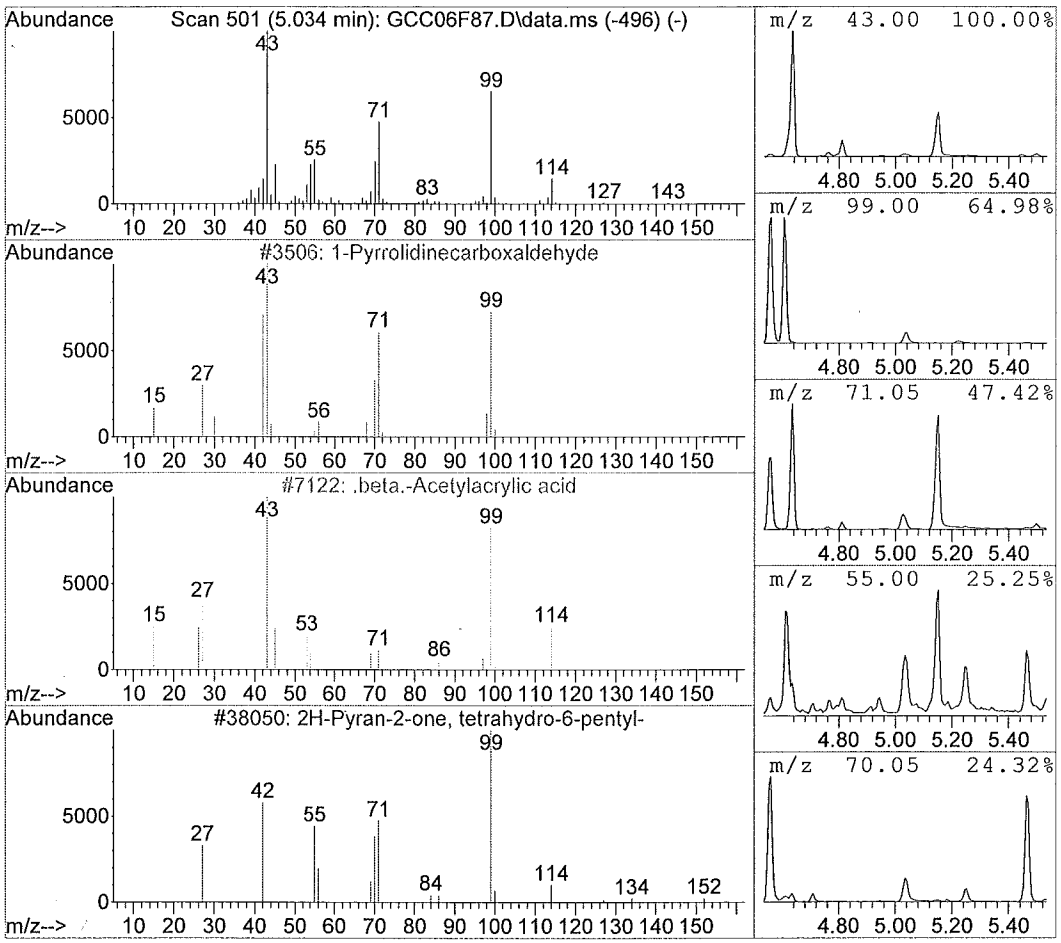


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.03	5.65 ug/ml	627512	1,4-Dichlorobenzene-d4	2220157

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Pyrrolidinecarboxaldehyde	3506	003760-54-1	47.00
2	.beta.-Acetylacrylic acid	7122	004743-82-2	43.00
3	2H-Pyran-2-one, tetrahydro-6-pentyl	38050	000705-86-2	38.00
4	2H-Pyran-2-one, tetrahydro-6-propyl	19790	000698-76-0	38.00
5	1,4-Dioxane, 2-methyl-3-methylene-	7278	028125-74-8	38.00

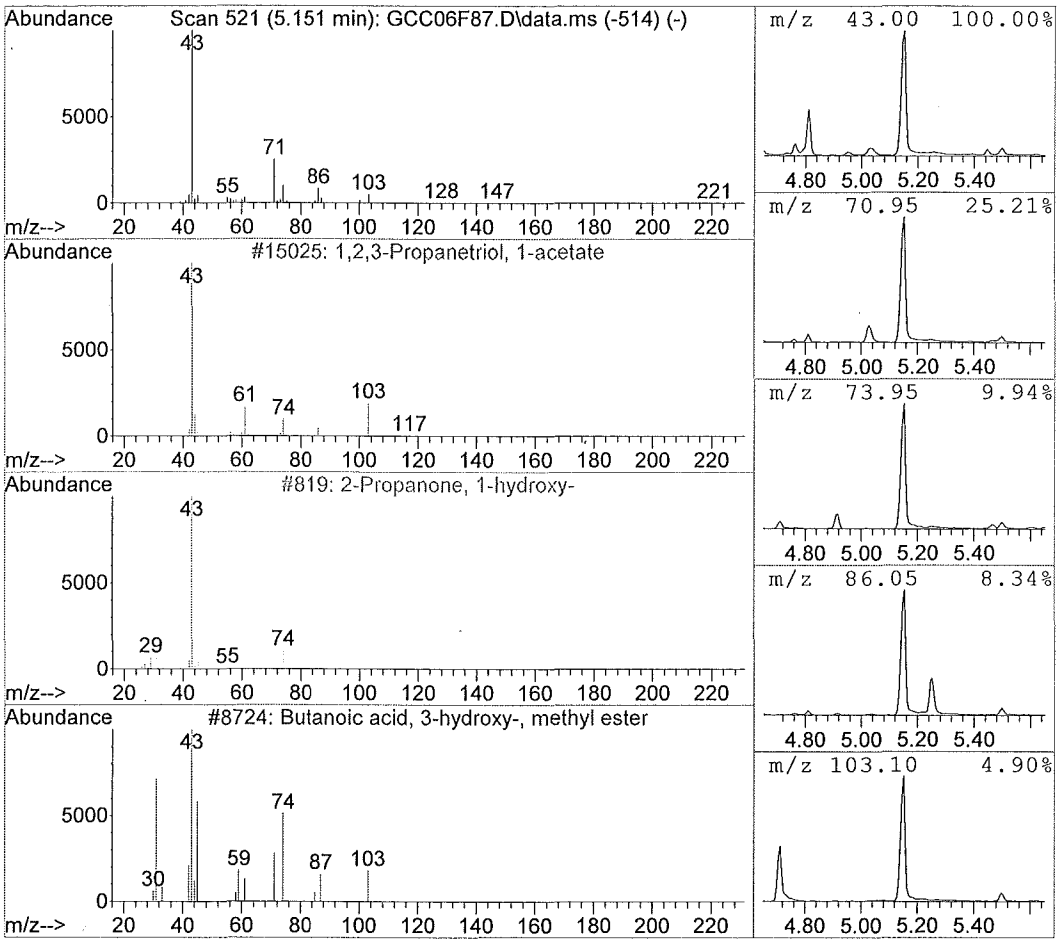


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.15	31.03 ug/ml	3444733	1,4-Dichlorobenzene-d4	2220157

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	32.00
2	2-Propanone, 1-hydroxy-	819	000116-09-6	27.00
3	Butanoic acid, 3-hydroxy-, methyl e	8724	001487-49-6	12.00
4	1-Propanol, 2-methyl-	856	000078-83-1	10.00
5	2,3-Butanedione	1661	000431-03-8	9.00

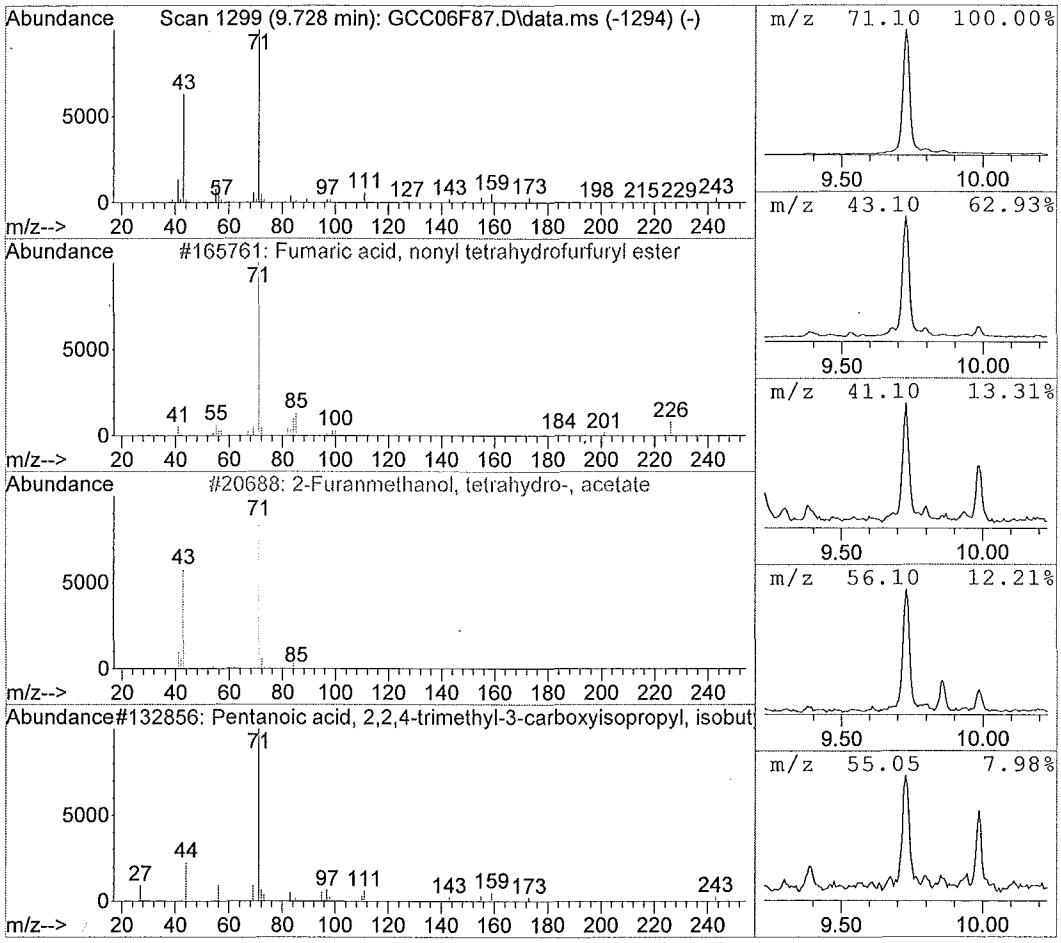


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.73	5.19 ug/ml	753362	Acenaphthene-d10	2901125

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Fumaric acid, nonyl tetrahydrofurfu	165761	1000330-58-3	45.00
2	2-Furanmethanol, tetrahydro-, aceta	20688	000637-64-9	45.00
3	Pentanoic acid, 2,2,4-trimethyl-3-c	132856	1000140-77-5	43.00
4	Diethylmalonic acid, monochloride,	111984	1000370-65-0	42.00
5	4-Hexen-3-ol, 2-methyl-	7529	004798-60-1	42.00

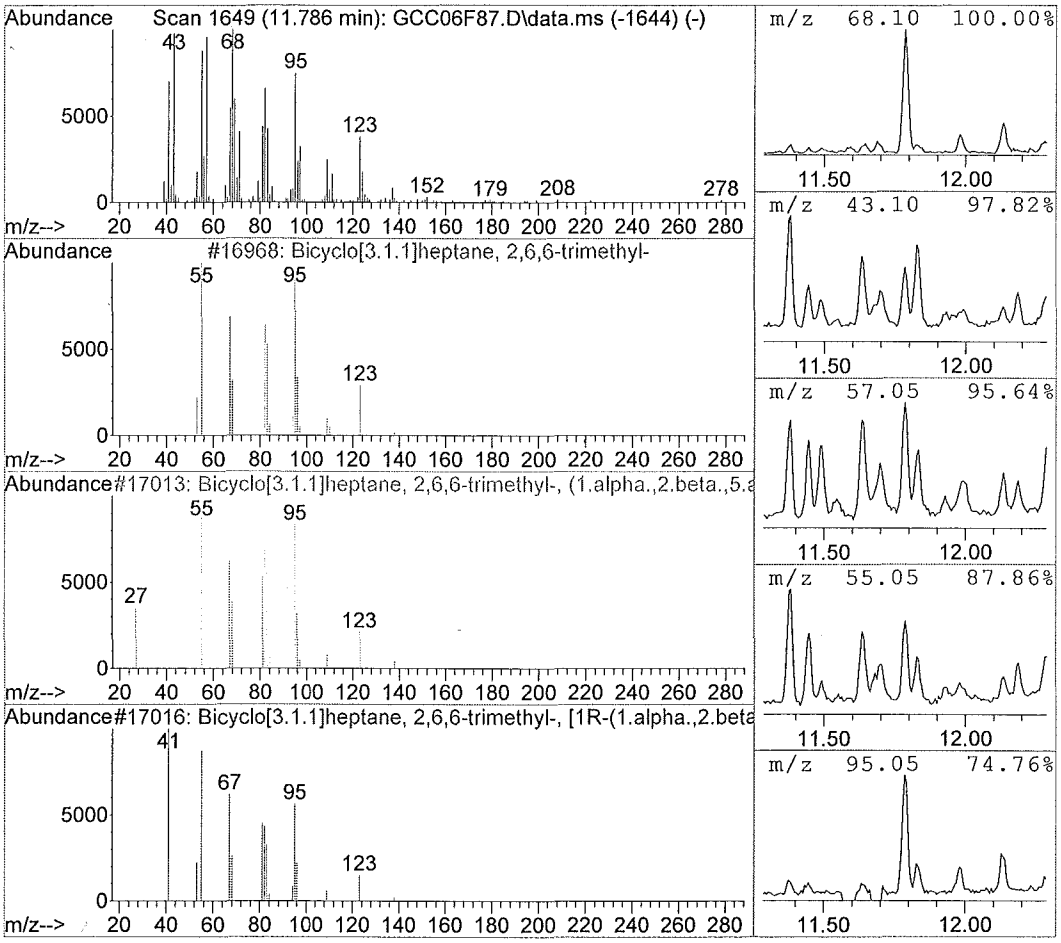


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.79	2.39 ug/ml	363364	Phenanthrene-d10	3038160

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Bicyclo[3.1.1]heptane, 2,6,6-trimet CA	16968	000473-55-2	91.00
2	Bicyclo[3.1.1]heptane, 2,6,6-trimet	17013	006876-13-7	64.00
3	Bicyclo[3.1.1]heptane, 2,6,6-trimet	17016	004795-86-2	45.00
4	Bicyclo[3.1.1]heptane, 2,6,6-trimet	17019	004863-59-6	41.00
5	Phytol, acetate	175494	1000375-01-4	38.00



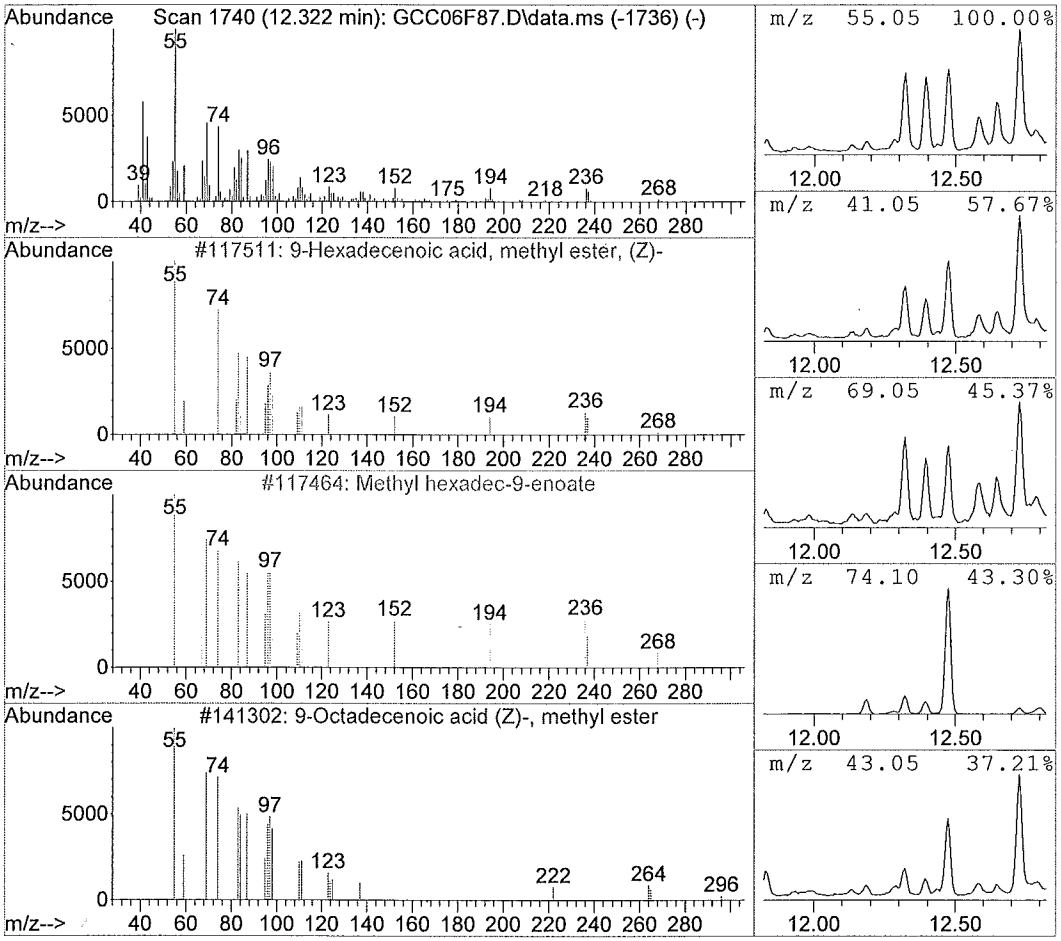
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.32	5.33 ug/ml	809592	Phenanthrene-d10	3038160

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Hexadecenoic acid, methyl ester,	117511	001120-25-8	98.00
2	Methyl hexadec-9-enoate	117464	010030-74-7	87.00
3	9-Octadecenoic acid (Z)-, methyl es	141302	000112-62-9	86.00
4	Methyl myristoleate	94118	056219-06-8	86.00
5	Methyl 11-hexadecenoate	117465	1000336-35-5	78.00

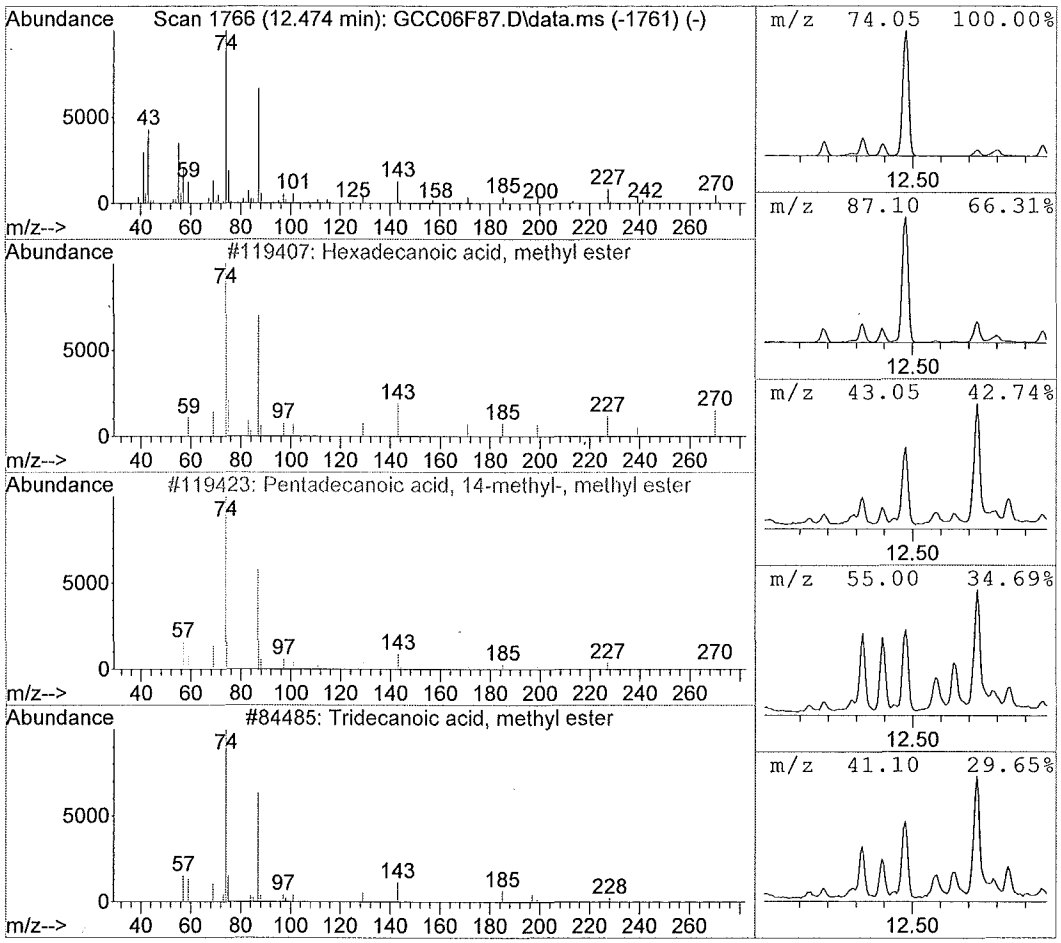


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.47	9.04 ug/ml	1372518	Phenanthrene-d10	3038160

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, methyl ester	119407	000112-39-0	97.00
2	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	97.00
3	Tridecanoic acid, methyl ester	84485	001731-88-0	90.00
4	Methyl tetradecanoate	95861	000124-10-7	90.00
5	Dodecanoic acid, methyl ester	72688	000111-82-0	86.00

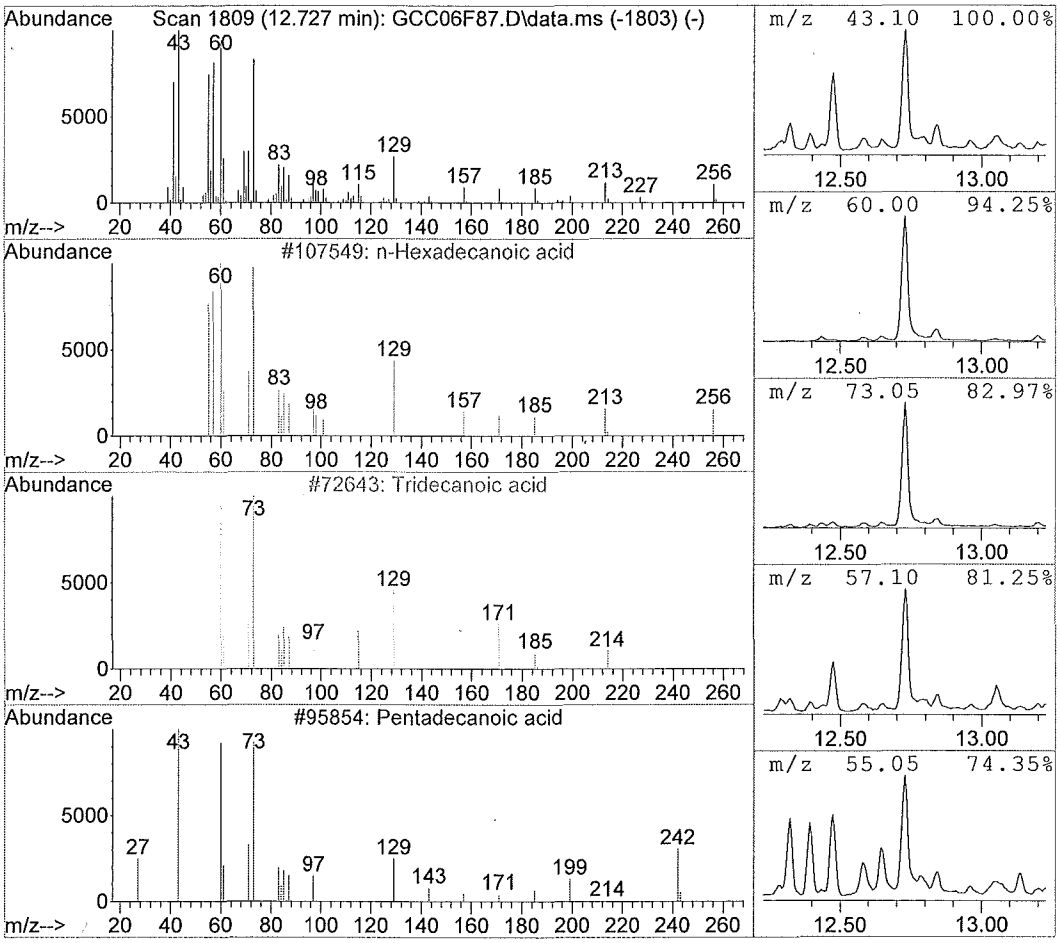


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.73	13.56 ug/ml	2059712	Phenanthrene-d10	3038160

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Tridecanoic acid	72643	000638-53-9	93.00
3	Pentadecanoic acid	95854	001002-84-2	87.00
4	Tetradecanoic acid	84452	000544-63-8	72.00
5	Dodecanoic acid	61120	000143-07-7	59.00

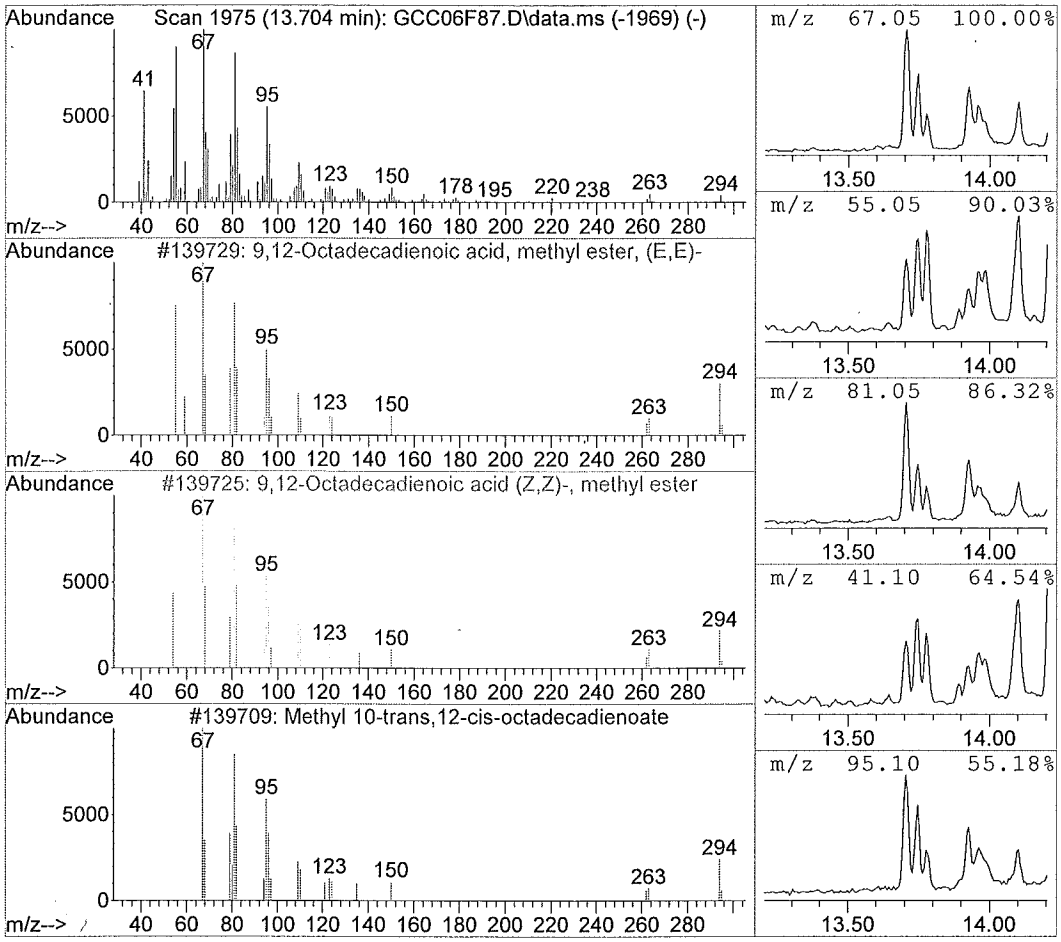


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.70	4.61 ug/ml	768295	Chrysene-d12	3333826

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9,12-Octadecadienoic acid, methyl e	139729	002566-97-4	99.00
2	9,12-Octadecadienoic acid (Z,Z)-, m	139725	000112-63-0	99.00
3	Methyl 10-trans,12-cis-octadecadien	139709	1000336-44-2	99.00
4	10,13-Octadecadienoic acid, methyl	139716	056554-62-2	99.00
5	9,12-Octadecadienoic acid, methyl e	139708	002462-85-3	99.00

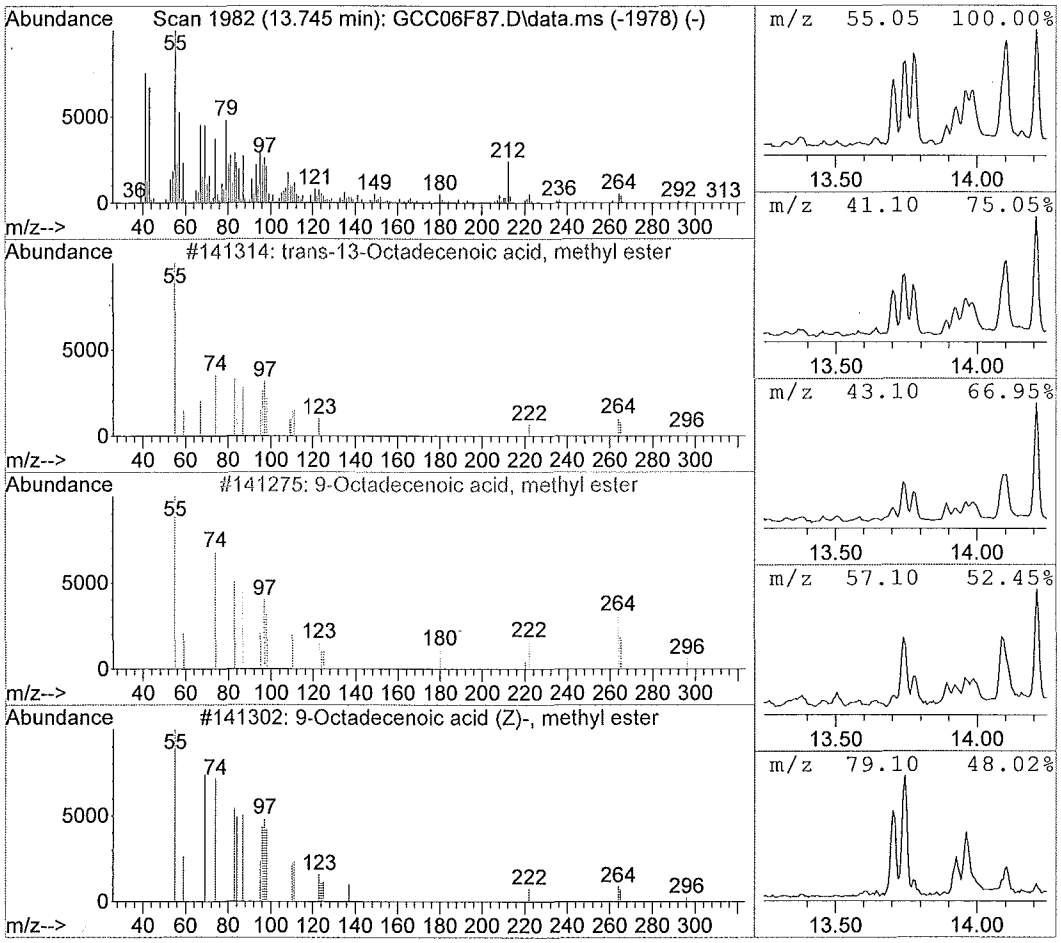


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.74	6.19 ug/ml	1031296	Chrysene-d12	3333826

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	trans-13-Octadecenoic acid, methyl	141314	1000333-61-3	96.00
2	9-Octadecenoic acid, methyl ester	141275	002462-84-2	95.00
3	9-Octadecenoic acid (Z)-, methyl es	141302	000112-62-9	92.00
4	13-Octadecenoic acid, methyl ester	141286	056554-47-3	89.00
5	6-Octadecenoic acid, methyl ester,	141307	002777-58-4	74.00



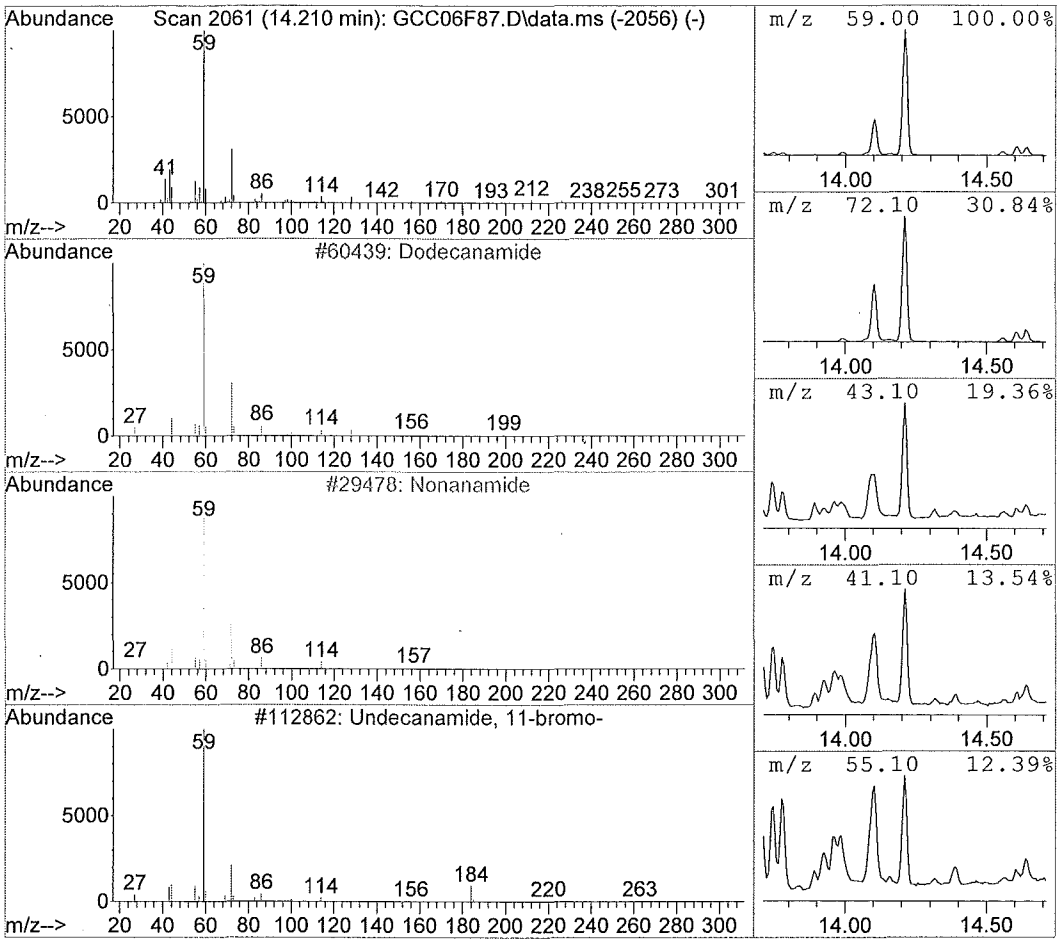
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.21	11.40 ug/ml	1900978	Chrysene-d12	3333826

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Nonanamide	29478	001120-07-6	83.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
4	Tetradecanamide	83609	000638-58-4	83.00
5	Pentanamide	4062	000626-97-1	59.00



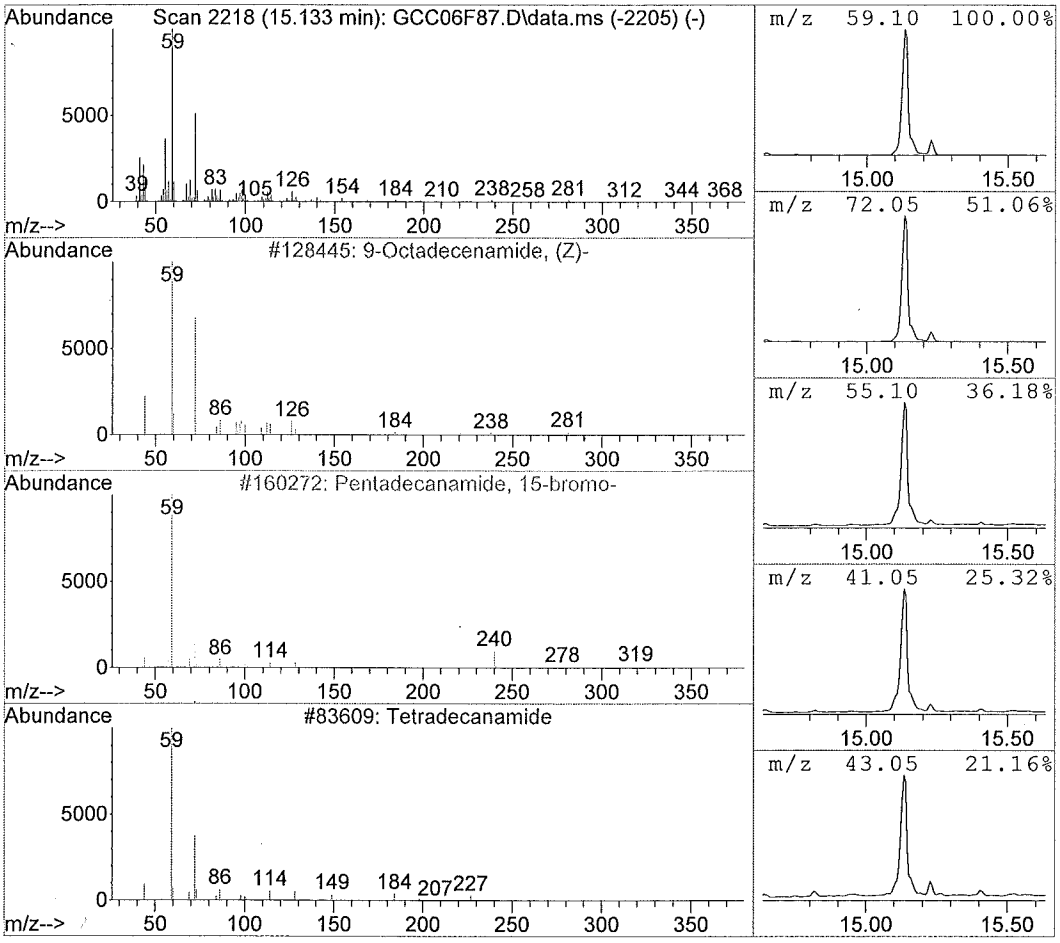
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.13	105.56 ug/ml	17595530	Chrysene-d12	3333826

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	95.00
2	Pentadecanamide, 15-bromo-	160272	1000163-86-1	86.00
3	Tetradecanamide	83609	000638-58-4	56.00
4	Hexadecanamide	106565	000629-54-9	56.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	53.00

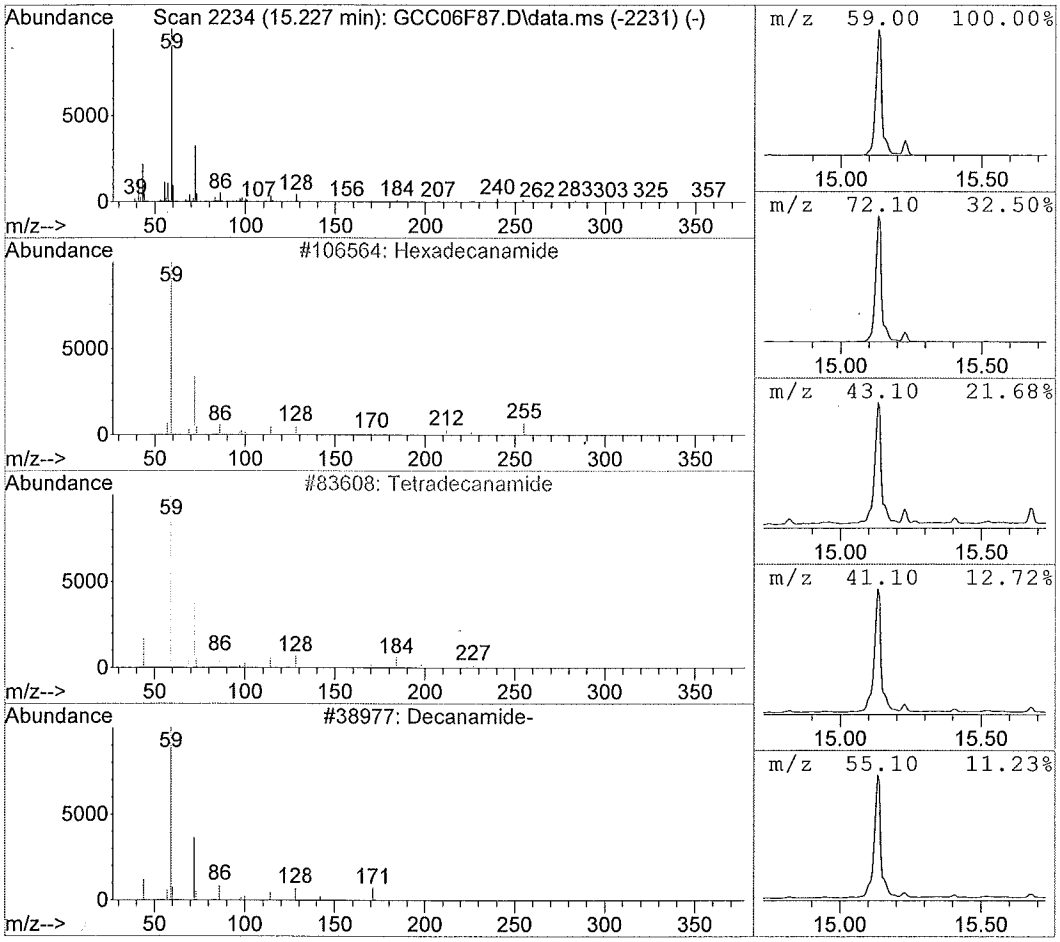


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.23	4.31 ug/ml	718603	Chrysene-d12	3333826

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	90.00
2	Tetradecanamide	83608	000638-58-4	78.00
3	Decanamide-	38977	002319-29-1	78.00
4	Dodecanamide	60439	001120-16-7	78.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	64.00

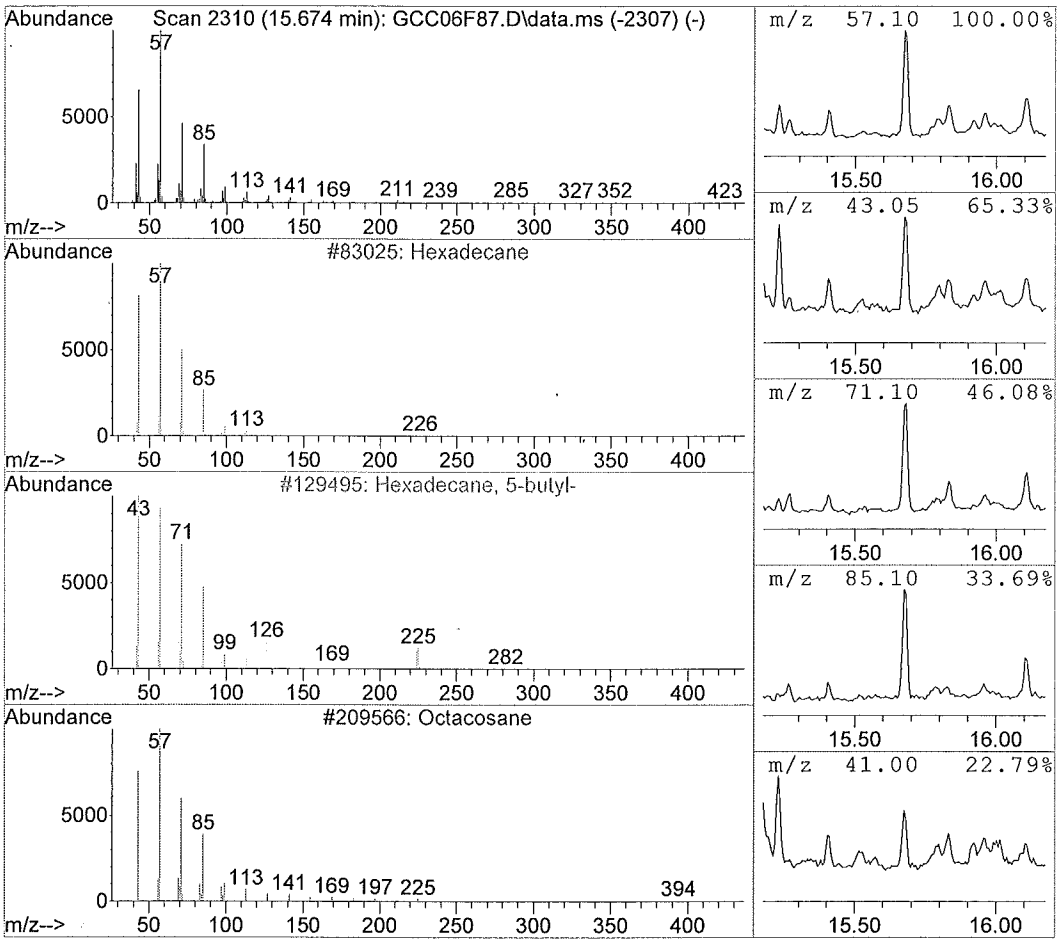


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.67	2.92 ug/ml	487470	Chrysene-d12	3333826

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane	83025	000544-76-3	94.00
2	Hexadecane, 5-butyl-	129495	006912-07-8	91.00
3	Octacosane	209566	000630-02-4	91.00
4	Heptadecane, 2-methyl-	105894	001560-89-0	90.00
5	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	90.00

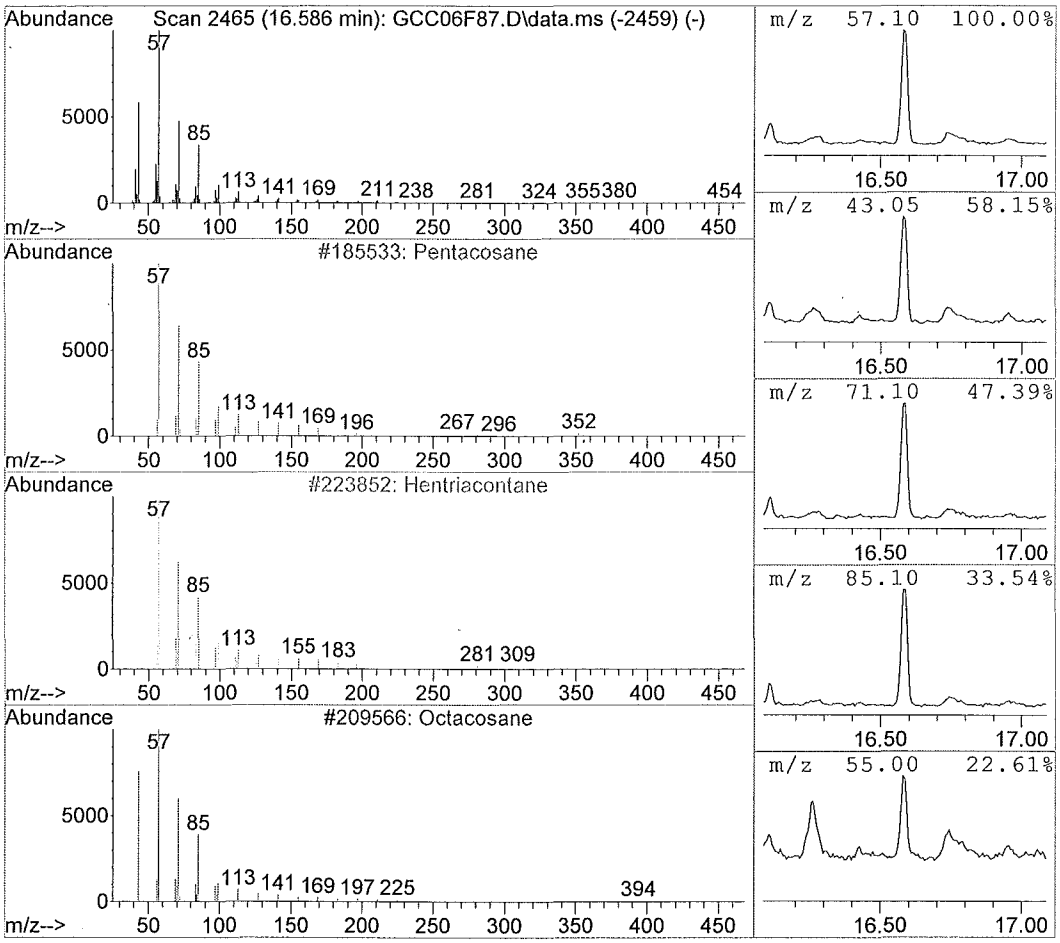


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.59	7.34 ug/ml	1224013	Chrysene-d12	3333826

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentacosane	185533	000629-99-2	91.00
2	Hentriacontane	223852	000630-04-6	91.00
3	Octacosane	209566	000630-02-4	90.00
4	Eicosane, 3-methyl-	141428	006418-46-8	87.00
5	Tridecane, 1-iodo-	152416	035599-77-0	87.00

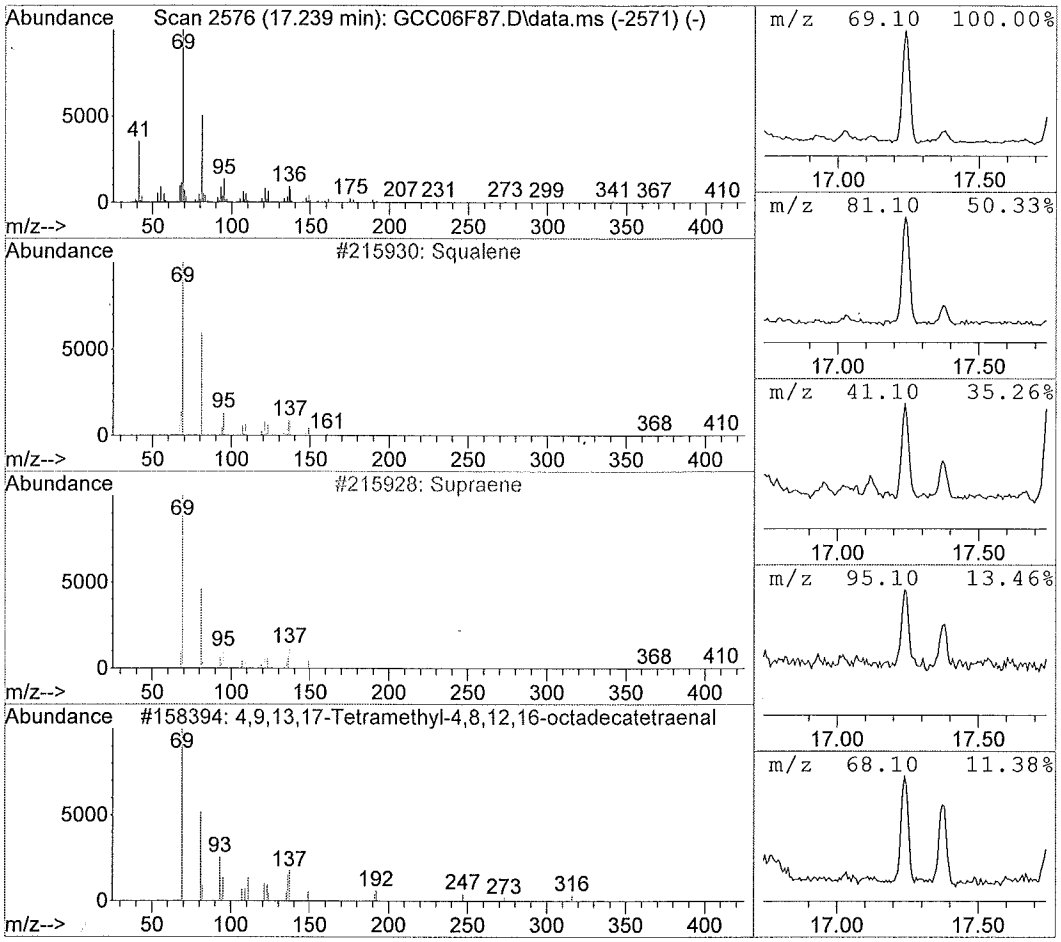


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.24	6.43 ug/ml	761989	Perylene-d12	2371711

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Squalene	215930	000111-02-4	98.00
2	Supraene	215928	007683-64-9	95.00
3	4,9,13,17-Tetramethyl-4,8,12,16-oct	158394	056882-09-8	83.00
4	4,8,12-Tetradecatrienenitrile, 5,9,	98277	005981-31-7	72.00
5	Farnesol isomer a	79401	1000108-92-4	64.00



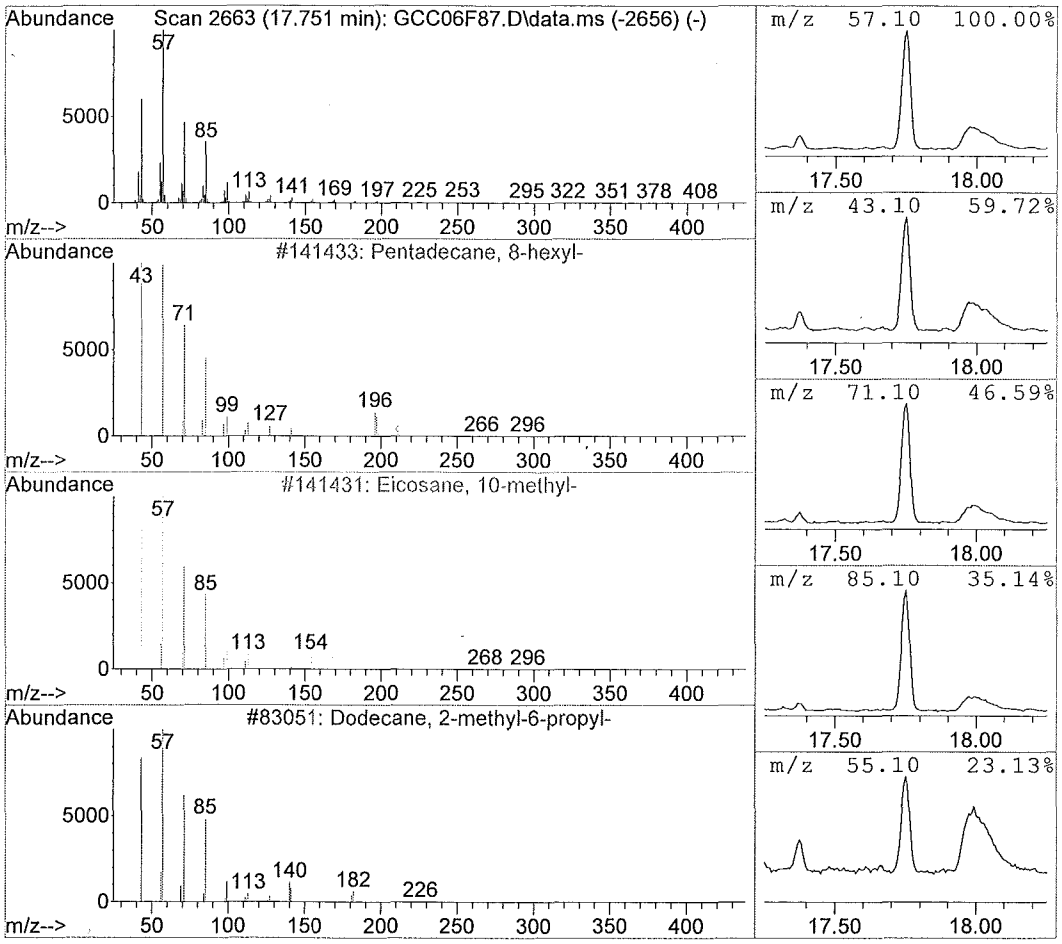
Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.75	21.38 ug/ml	2534779	Perylene-d12	2371711

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecane, 8-hexyl-	141433	013475-75-7	93.00
2	Eicosane, 10-methyl-	141431	054833-23-7	91.00
3	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	91.00
4	Heptacosane	202662	000593-49-7	91.00
5	Hentriacontane	223851	000630-04-6	91.00

BA

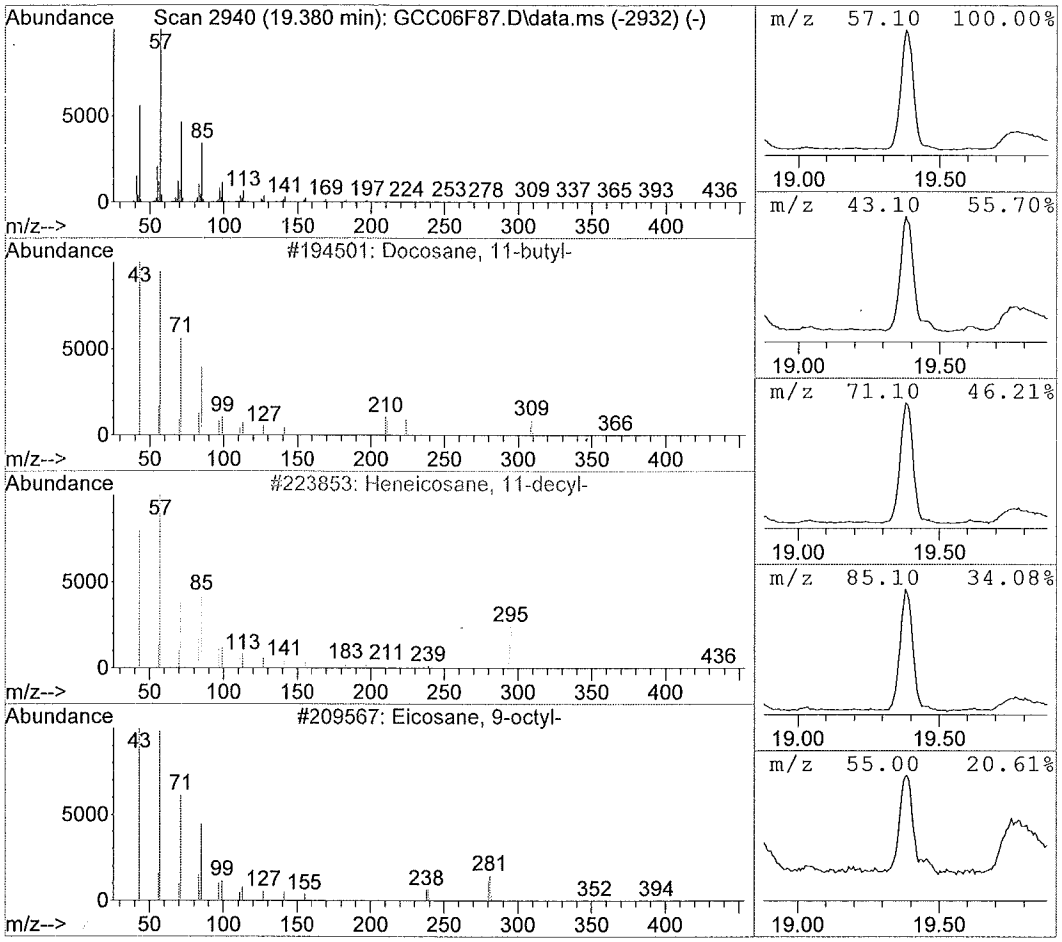


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.38	27.04 ug/ml	3206701	Perylene-d12	2371711

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Docosane, 11-butyl-	194501	013475-76-8	93.00
2	Heneicosane, 11-decyl-	223853	055320-06-4	93.00
3	Eicosane, 9-octyl-	209567	013475-77-9	93.00
4	Heptadecane, 9-hexyl-	164584	055124-79-3	93.00
5	Hentriacontane	223851	000630-04-6	91.00



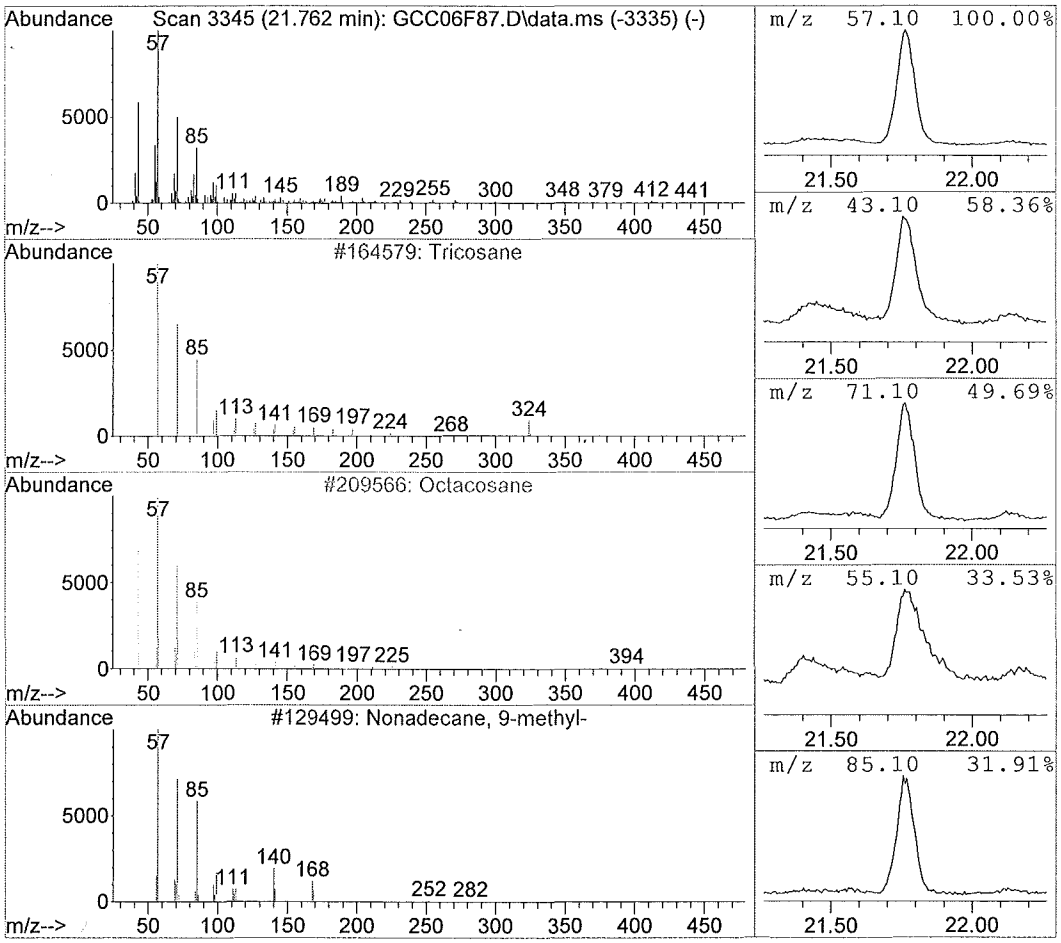
Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC06F87.D Vial: 5
Acq On : 06/24/2015 09:40 Operator: SY
Sample : 1515725007 F9M87 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.76	30.35 ug/ml	3598989	Perylene-d12	2371711

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tricosane	164579	000638-67-5	91.00
2	Octacosane	209566	000630-02-4	91.00
3	Nonadecane, 9-methyl-	129499	013287-24-6	89.00
4	Hentriacontane	223851	000630-04-6	83.00
5	Hexatriacontane	235973	000630-06-8	83.00

SA



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M88

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725008

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCC07F88

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M88

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725008

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCC07F88

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	140	J
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M88

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725008
Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCC07F88
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 10. Decanted: (Y/N) N Date Received: 06/05/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015
GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Propanone, 1-hydroxy-	2.18	220	J
02		Unknown 1,2-Ethanediol	2.38	250	J
03		Unknown 2-Pentanone, 4-hydroxy-	3.35	260	JB
04		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.55	8900	JB
05		Unknown Hexane, 2-bromo-	4.23	840	J
06		Unknown 1H-Pyrrole-2,5-dione	4.32	870	J
07		Unknown 2H-Pyran-2-one, tetrahydro-6-propyl-	5.04	180	J
08		Unknown 1,2,3-Propanetriol, 1-acetate	5.16	1900	J
09		Unknown Propanoic acid, 2-methyl-, 1-(1,1-dimeth	9.73	150	J
10	5129-60-2	Pentadecanoic acid, 14-methyl-, methyl ester	12.47	150	JN
11	57-10-3	n-Hexadecanoic acid	12.73	420	JN
12		Unknown Undecanamide, 11-bromo-	12.84	170	J
13	13481-95-3	10-Octadecenoic acid, methyl ester	13.74	190	JN
14	693-71-0	trans-13-Octadecenoic acid	13.96	510	JN
15	2319-29-1	Decanamide-	14.22	590	JN
16	301-02-0	9-Octadecenamide, (Z)-	15.14	6200	JNB
17	629-54-9	Hexadecanamide	15.23	230	JNB
18	111-02-4	Squalene	17.24	150	JN
19		Unknown Phthalic anhydride	18.73	600	J
20		Unknown Phthalic anhydride	23.51	730	J
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	3500	J

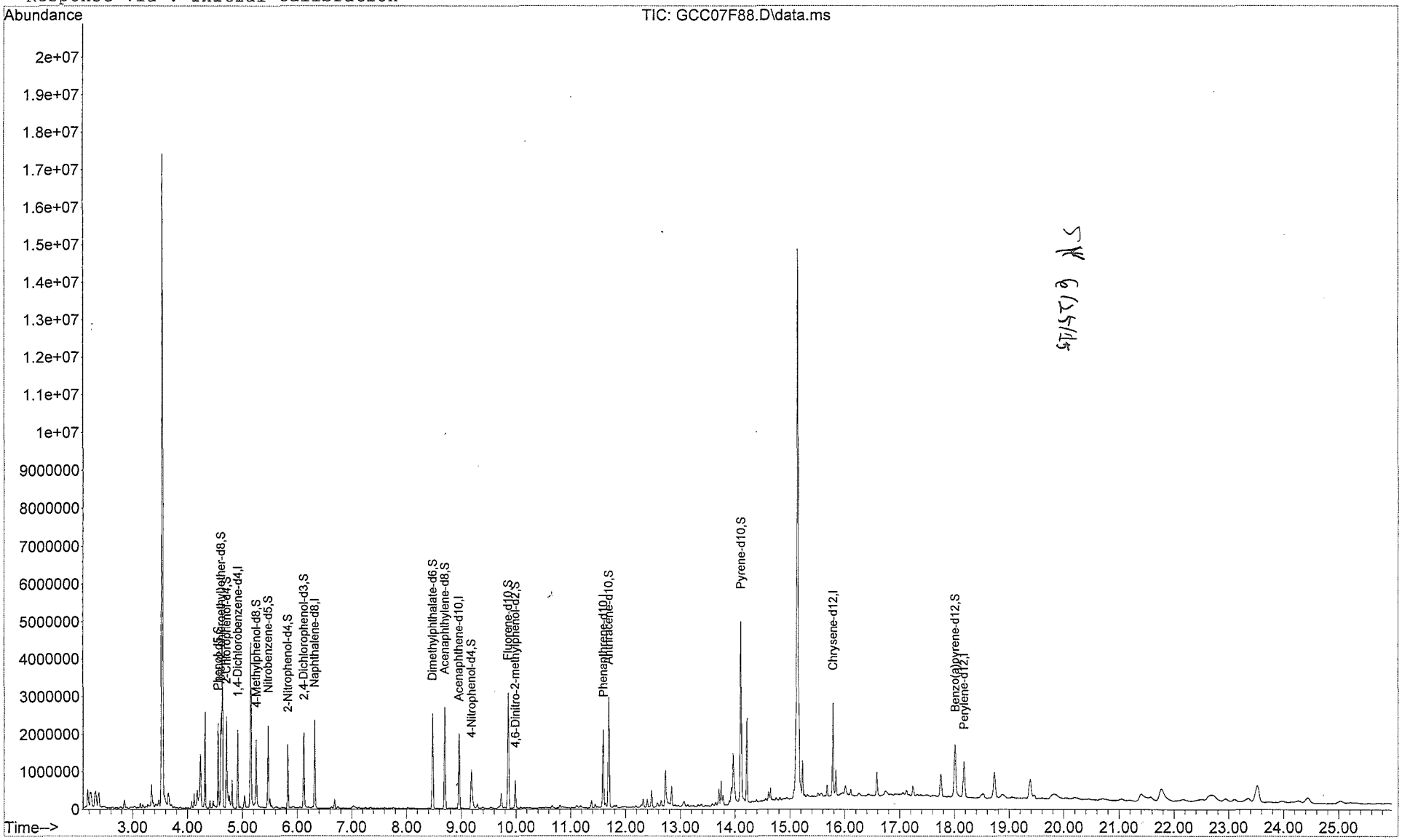
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 25 06:32:00 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 06:32:00 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.92	152	301205	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1125411	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	658151	20.00 ug/ml
59) Phenanthrene-d10	11.59	188	1143045	20.00 ug/ml
73) Chrysene-d12	15.79	240	1081273	20.00 ug/ml
81) Perylene-d12	18.17	264	680658	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.56	99	721431	27.523ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	504054	24.676ug/mL
7) 2-Chlorophenol-d4	4.71	132	595968	26.929ug/ml
13) 4-Methylphenol-d8	5.25	113	379622	21.653ug/mL
17) Nitrobenzene-d5	5.47	128	277163	28.034ug/ml
21) 2-Nitrophenol-d4	5.83	143	289546	27.708ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	476702	29.296ug/mL
28) 4-Chloroaniline-d4	6.41	131	1240	0.070ug/mL
42) Dimethylphthalate-d6	8.48	166	1336888	32.393ug/mL
45) Acenaphthylene-d8	8.70	160	1652873	29.471ug/mL
50) 4-Nitrophenol-d4	9.19	143	281440	33.428ug/mL
57) Fluorene-d10	9.86	176	1152766	32.707ug/mL
61) 4,6-Dinitro-2-methylphenol	9.99	200	130698	16.110ug/mL
69) Anthracene-d10	11.69	188	1765723	29.130ug/mL
75) Pyrene-d10	14.10	212	1712016	31.727ug/mL
86) Benzo(a)pyrene-d12	18.01	264	938963	28.789ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

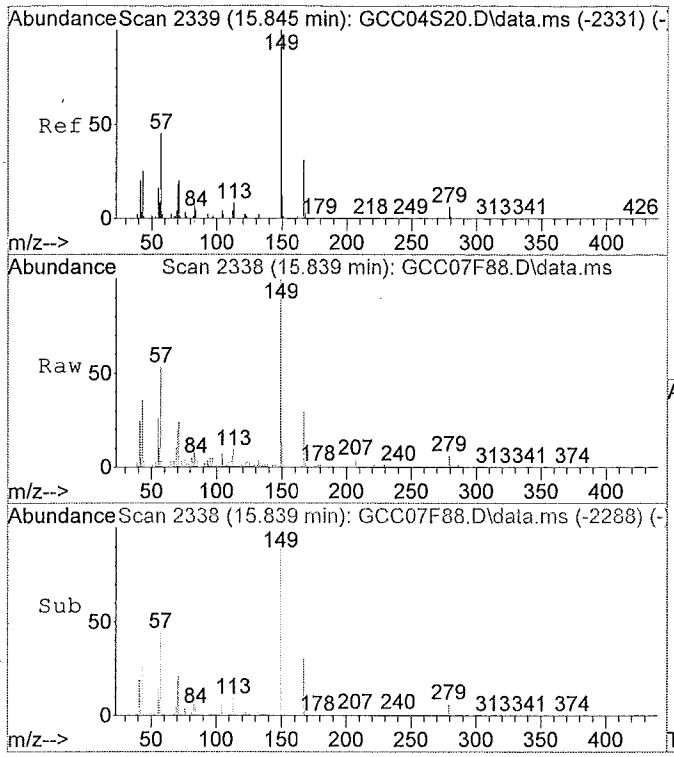
Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 06:32:00 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	0.00	152		Not Detected	
46)	3-Nitroaniline	0.00	138		Not Detected	
47)	Acenaphthene	0.00	153		Not Detected	
48)	2,4-Dinitrophenol	0.00	184		Not Detected	
49)	4-Nitrophenol	0.00	109		Not Detected	
51)	Dibenzofuran	0.00	168		Not Detected	
52)	2,4-Dinitrotoluene	0.00	165		Not Detected	
53)	2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54)	Diethylphthalate	0.00	149		Not Detected	
55)	4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56)	Fluorene	0.00	166		Not Detected	
58)	4-Nitroaniline	0.00	138		Not Detected	
60)	4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62)	N-Nitrosodiphenylamine	0.00	169		Not Detected	
63)	4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64)	Hexachlorobenzene	0.00	284		Not Detected	
65)	Atrazine	0.00	200		Not Detected	
66)	Pentachlorophenol	0.00	266		Not Detected	
67)	Phenanthrene	0.00	178		Not Detected	
68)	Anthracene	0.00	178		Not Detected	
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	0.00	202		Not Detected	
74)	Pyrene	0.00	202		Not Detected	
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	0.00	228		Not Detected	
79)	Chrysene	0.00	228		Not Detected	
80)	Bis-(2-ethylhexyl)phthalat	15.84	149	207253	3.876ug/ml	98
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	0.00	252		Not Detected	
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	0.00	252		Not Detected	
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

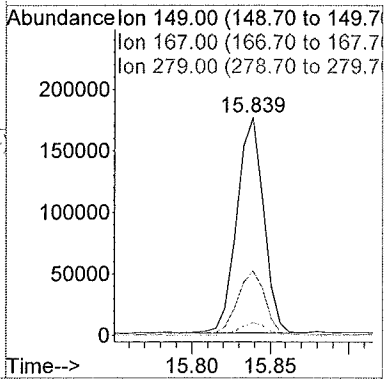
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#80
Bis-(2-ethylhexyl)phthalate
Concen: 3.88 ug/ml
RT: 15.84 min Scan# 2338
Delta R.T. -0.01 min
Lab File: GCC07F88.D
Acq: 06/24/2015 10:13

Tgt Ion:149 Resp: 207253

Ion	Ratio	Lower	Upper
149	100		
167	30.6	22.0	40.8
279	6.3	5.0	9.2
0	0.0	0.0	0.0



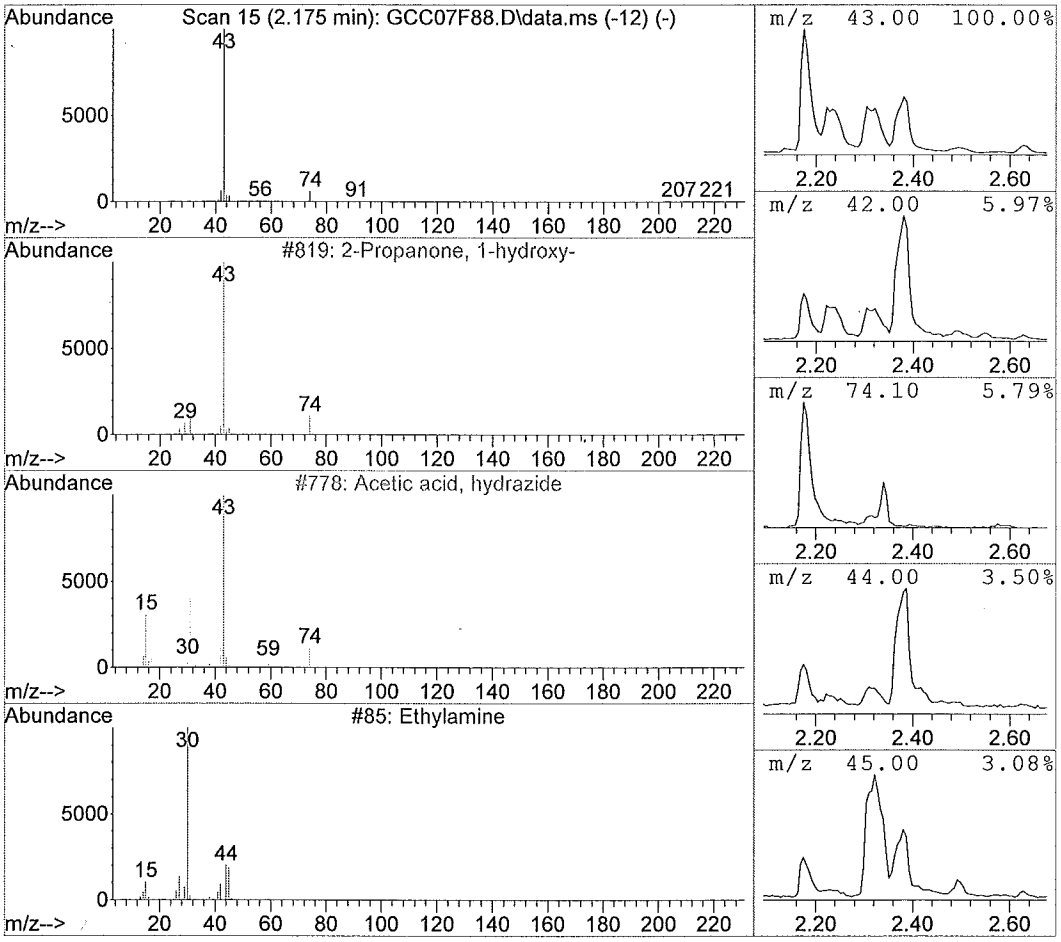
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.18	5.88 ug/ml	619844	1,4-Dichlorobenzene-d4	2108650

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-hydroxy-	819	000116-09-6	7.00
2	Acetic acid, hydrazide	778	001068-57-1	4.00
3	Ethylamine	85	000075-04-7	4.00
4	Hydrogen azide	70	007782-79-8	4.00
5	1-Propanol, 2-methyl-	855	000078-83-1	3.00



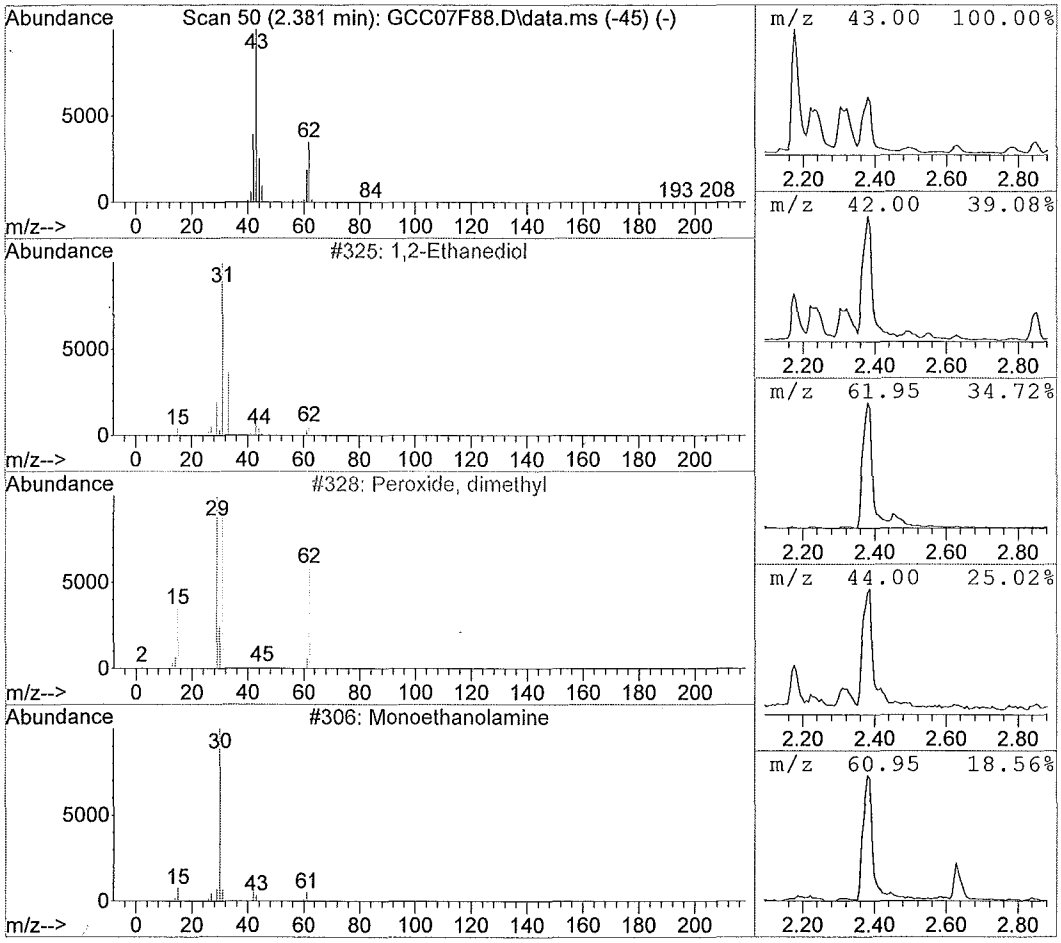
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.38	6.68 ug/ml	704220	1,4-Dichlorobenzene-d4	2108650

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Ethanediol	325	000107-21-1	42.00
2	Peroxide, dimethyl	328	000690-02-8	5.00
3	Monoethanolamine	306	000141-43-5	3.00
4	Ethanimidic acid, ethyl ester	1898	001000-84-6	2.00
5	Cyclobutylamine	610	002516-34-9	2.00

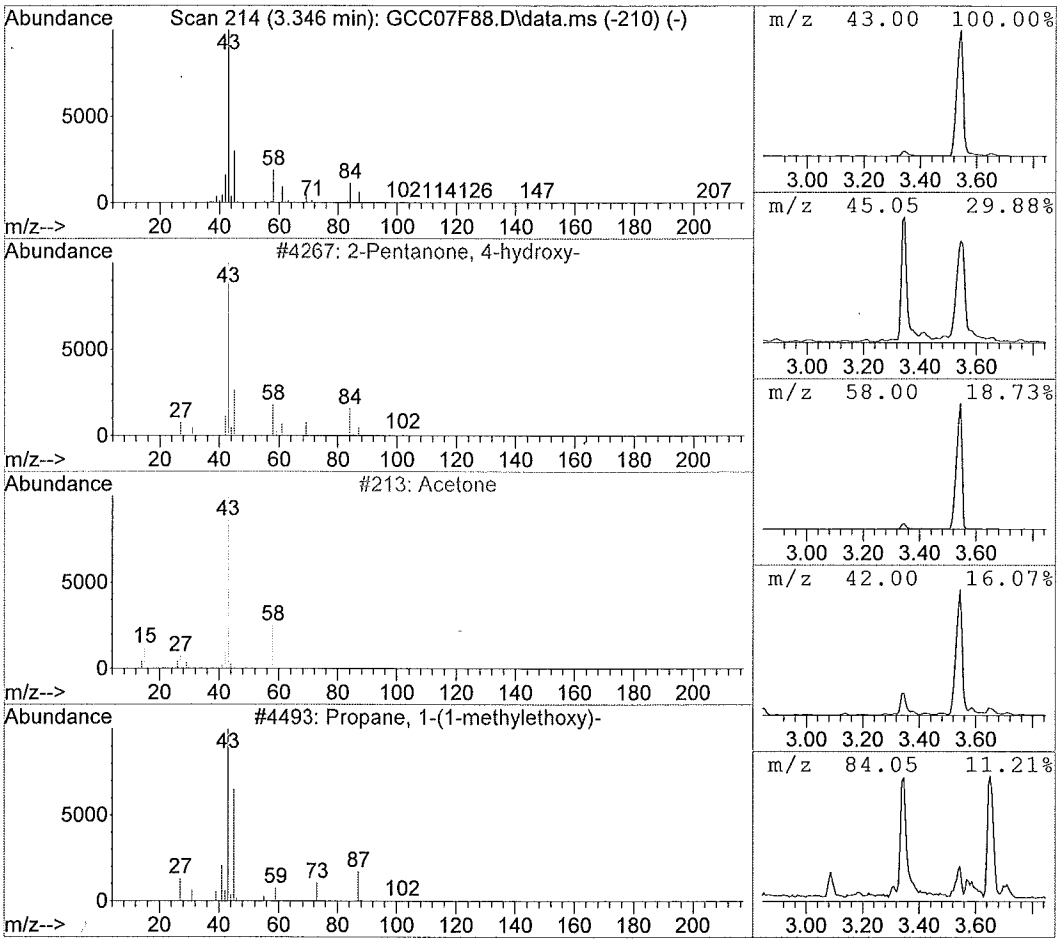


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.35	7.03 ug/ml	741068	1,4-Dichlorobenzene-d4	2108650

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	50.00
2	Acetone	213	000067-64-1	9.00
3	Propane, 1-(1-methylethoxy)-	4493	000627-08-7	9.00
4	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	9.00
5	Isopropyl acetate	4253	000108-21-4	9.00

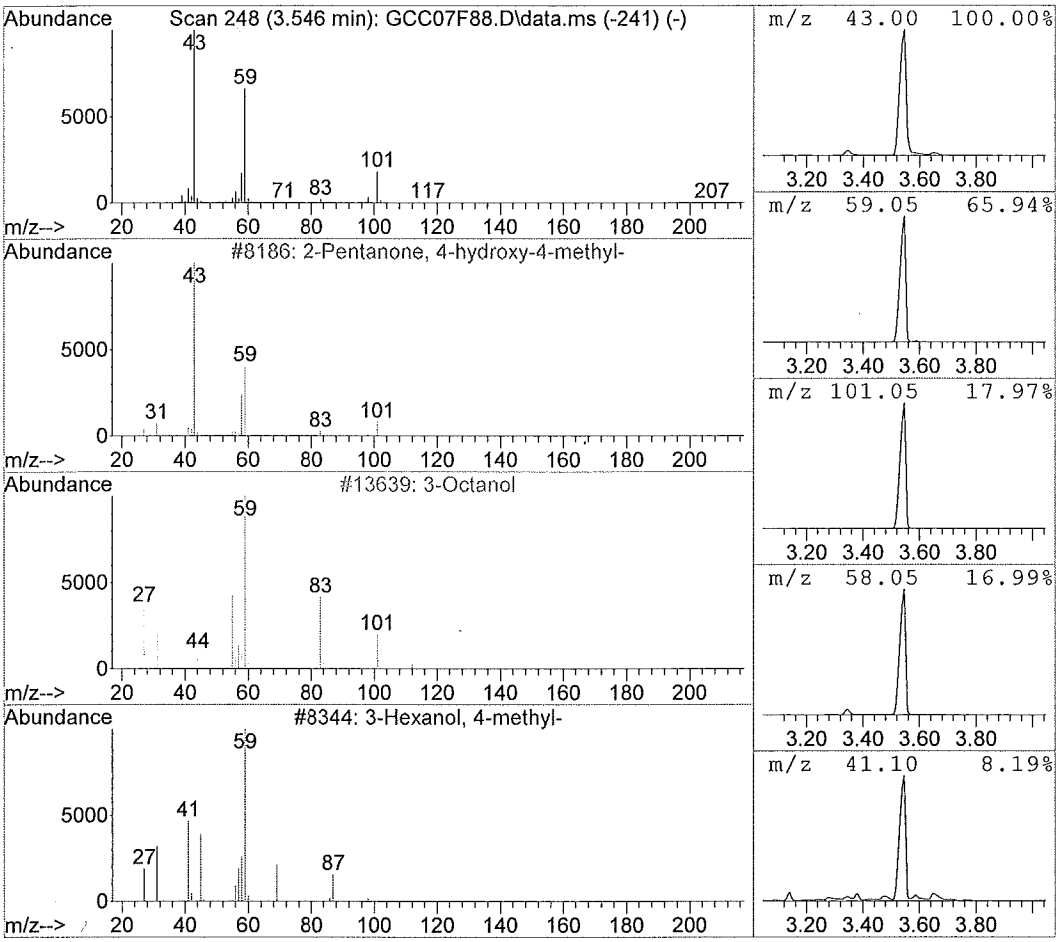


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.55	241.13 ug/ml	25422666	1,4-Dichlorobenzene-d4	2108650

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
2	3-Octanol	13639	000589-98-0	33.00
3	3-Hexanol, 4-methyl-	8344	000615-29-2	33.00
4	2-Hexanol, 2-methyl-	8346	000625-23-0	28.00
5	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	23.00



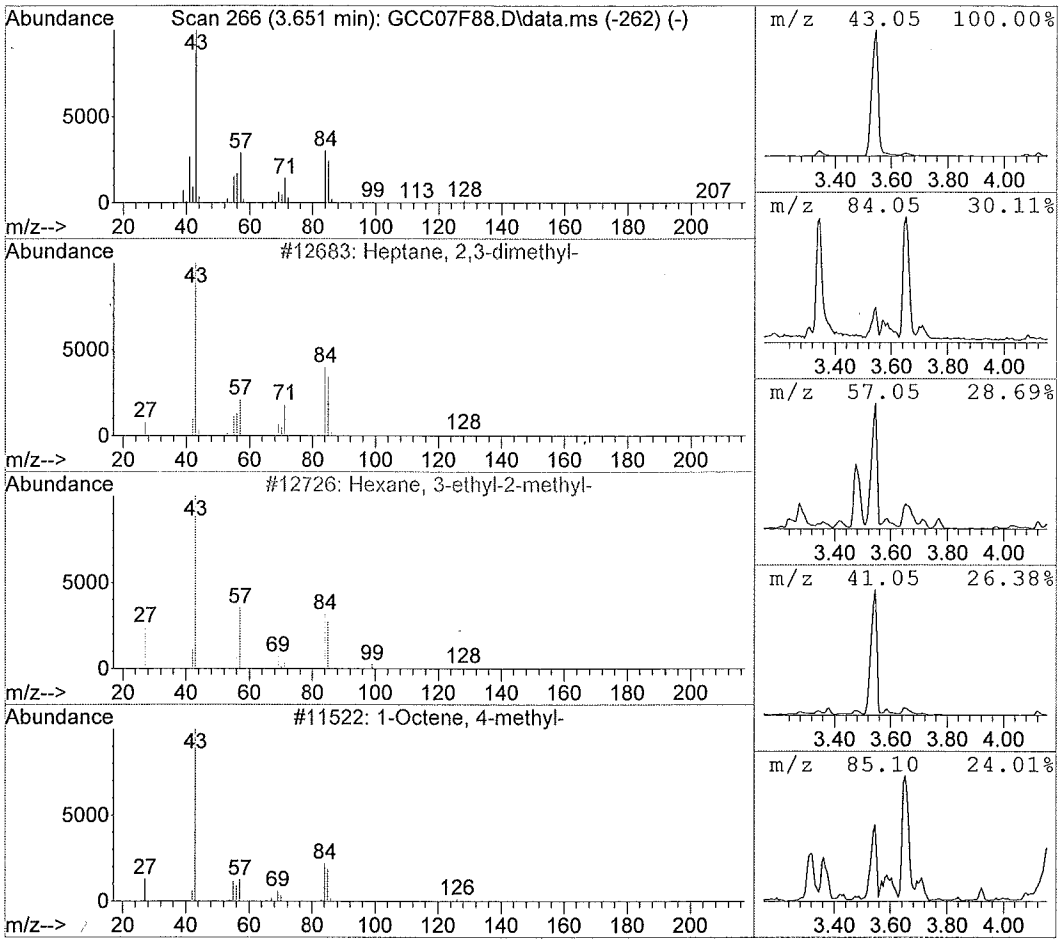
Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.65	5.17 ug/ml	545367	1,4-Dichlorobenzene-d4	2108650

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12683	003074-71-3	91.00
2	Hexane, 3-ethyl-2-methyl-	12726	016789-46-1	80.00
3	1-Octene, 4-methyl-	11522	013151-12-7	72.00
4	Decane, 5,6-dimethyl-	38347	001636-43-7	72.00
5	Heptane, 4-ethyl-	12673	002216-32-2	64.00

BA

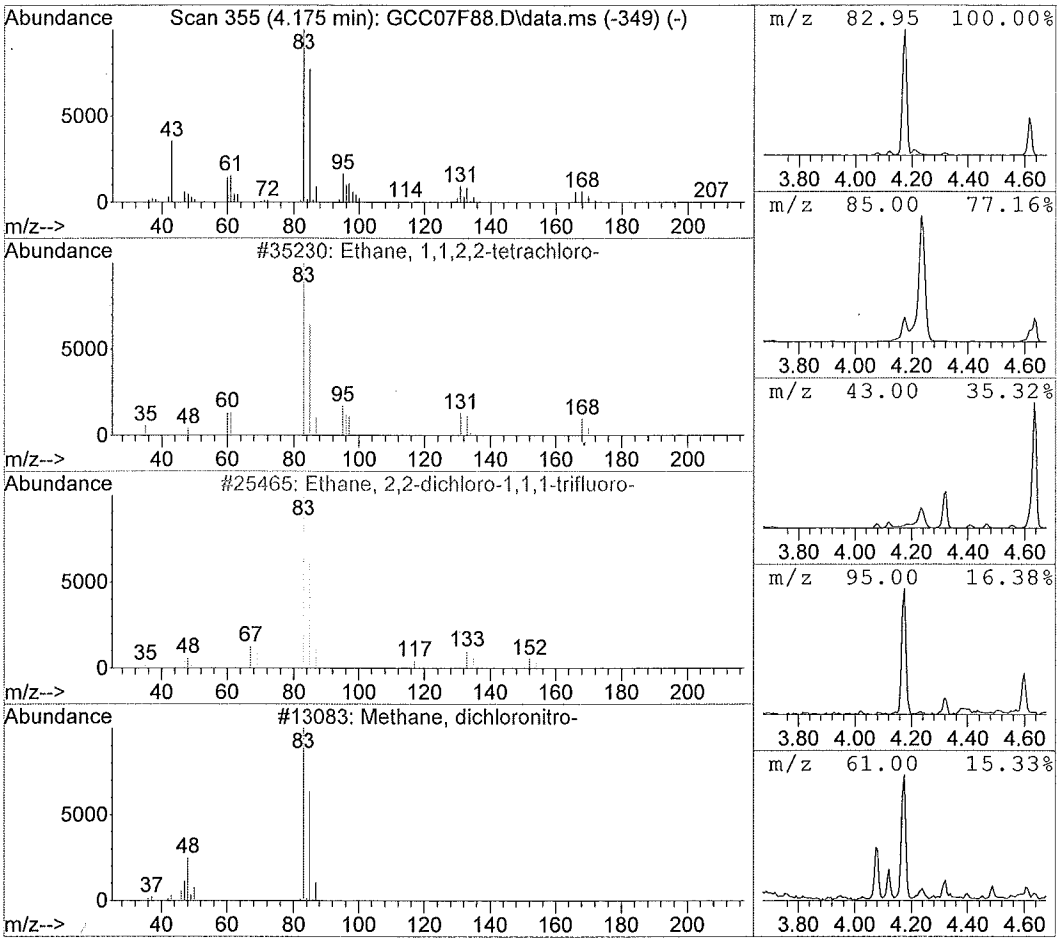


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.17	6.66 ug/ml	702631	1,4-Dichlorobenzene-d4	2108650

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro- VdA	35230	000079-34-5	91.00
2	Ethane, 2,2-dichloro-1,1,1-trifluor	25465	000306-83-2	42.00
3	Methane, dichloronitro-	13083	007119-89-3	42.00
4	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	39.00
5	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	36.00

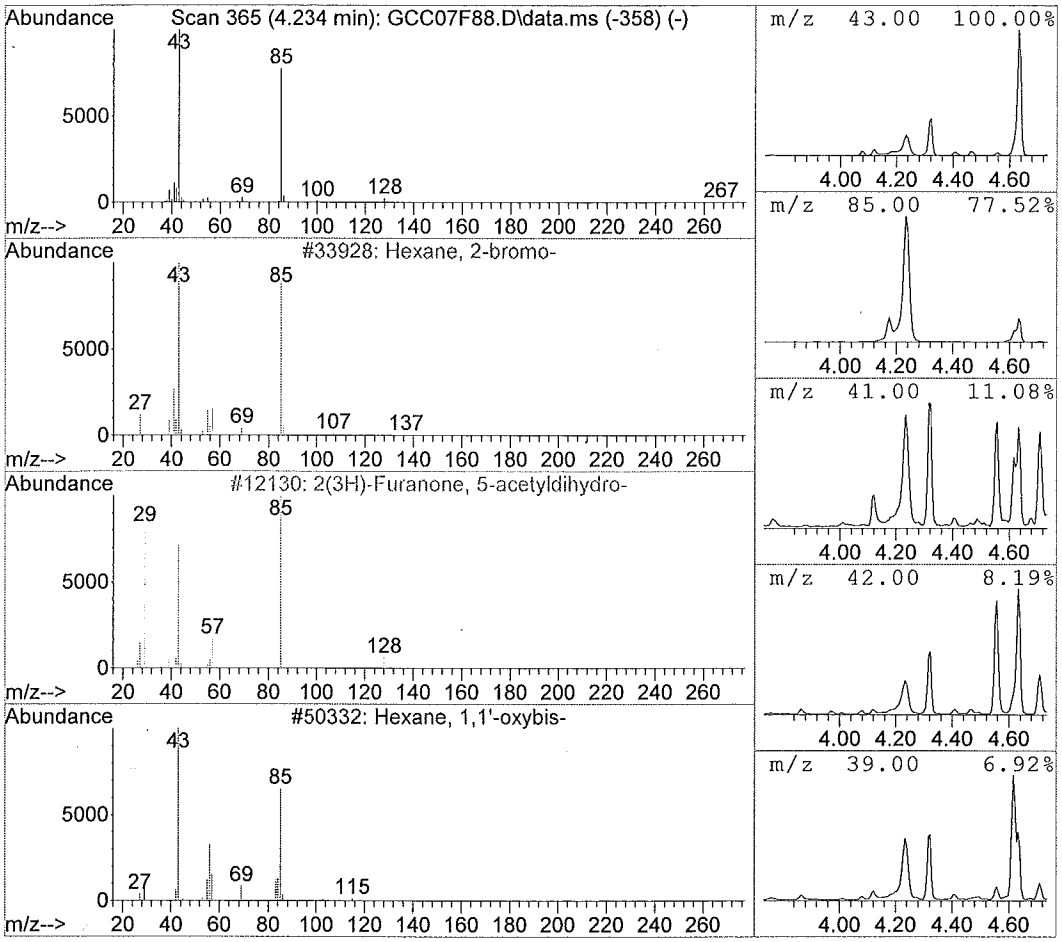


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.23	22.69 ug/ml	2392482	1,4-Dichlorobenzene-d4	2108650

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2-bromo-	33928	003377-86-4	50.00
2	2(3H)-Furanone, 5-acetyldihydro-	12130	029393-32-6	50.00
3	Hexane, 1,1'-oxybis-	50332	000112-58-3	43.00
4	2-Pyrrolidinone	1541	000616-45-5	42.00
5	4-Methoxy-3-buten-2-one	3689	004652-27-1	38.00



Library Search Compound Report

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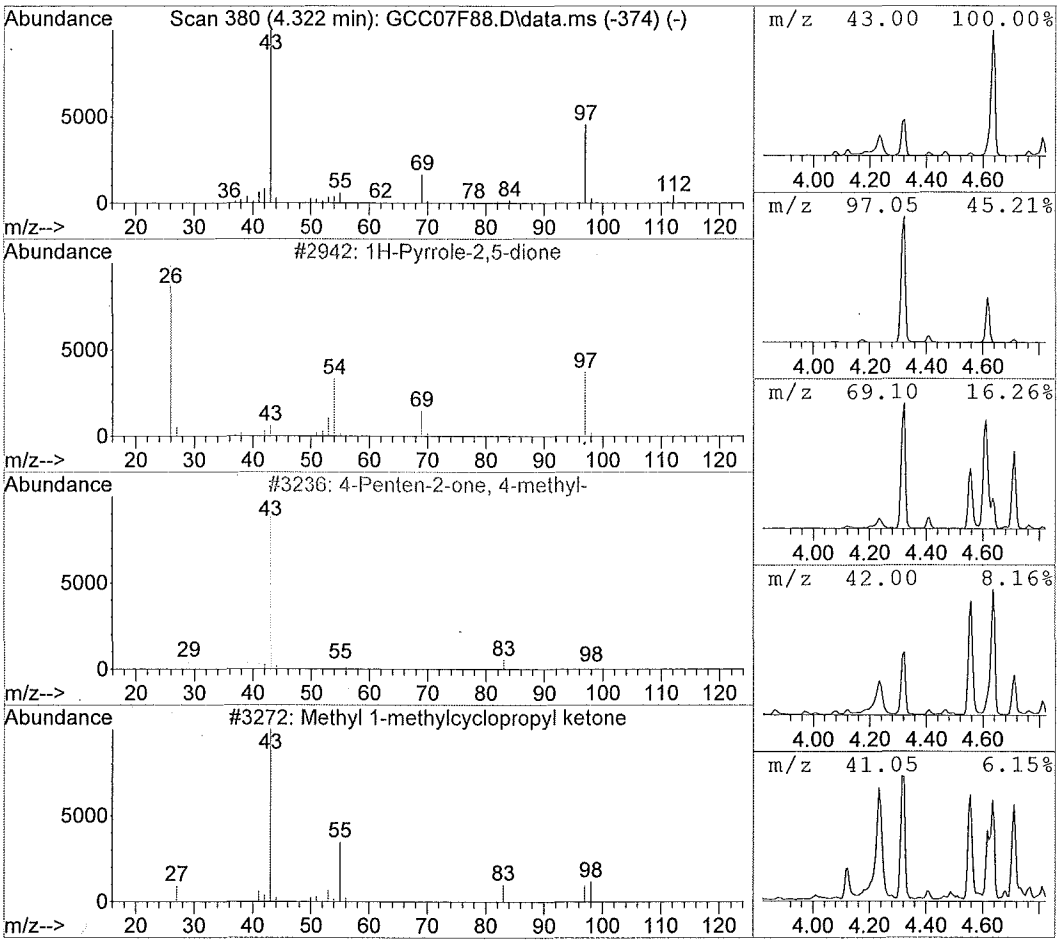
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.32	23.61 ug/ml	2489616	1,4-Dichlorobenzene-d4	2108650

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	40.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00
4	5-Hexen-2-one	3158	000109-49-9	9.00
5	2,6,6-Trimethyl-bicyclo[3.1.1]hept-	26216	069460-11-3	9.00



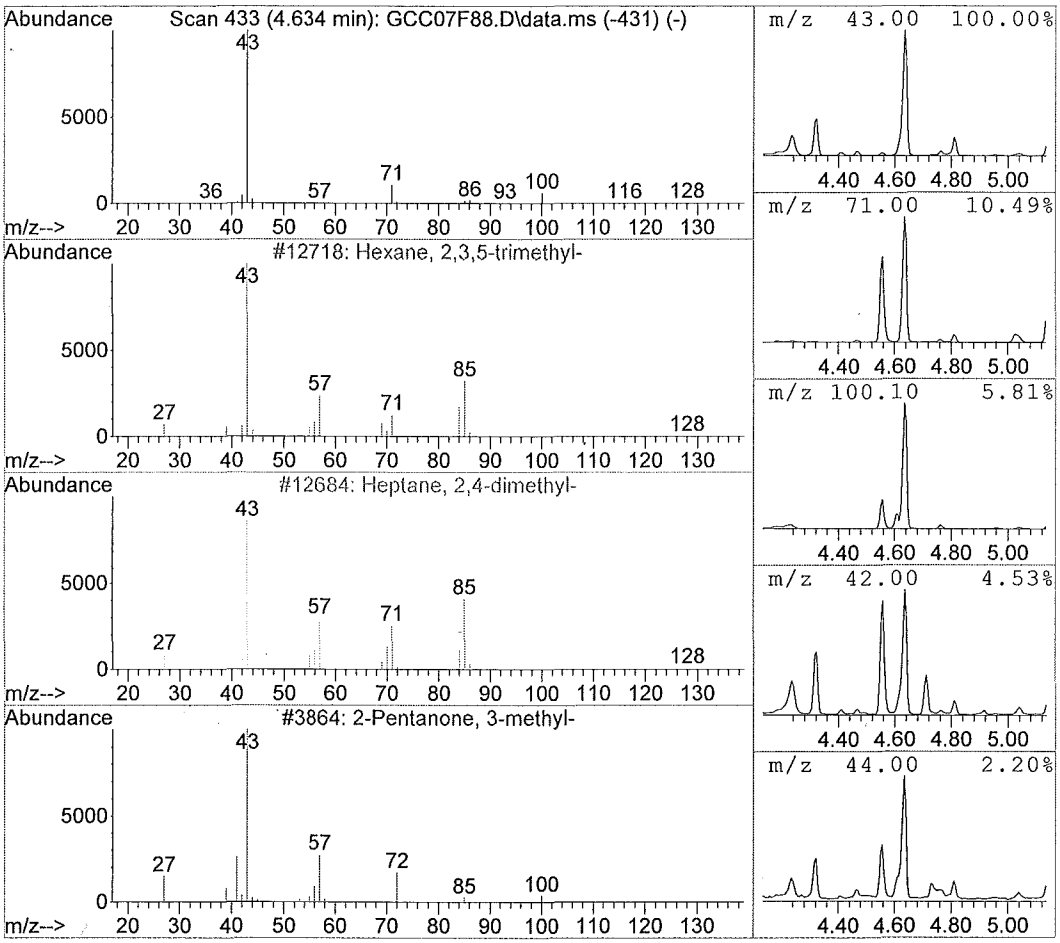
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.63	46.23 ug/ml	4874550	1,4-Dichlorobenzene-d4	2108650

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl- BA	12718	001069-53-0	7.00
2	Heptane, 2,4-dimethyl-	12684	002213-23-2	5.00
3	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
4	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00
5	Heptane	3973	000142-82-5	4.00



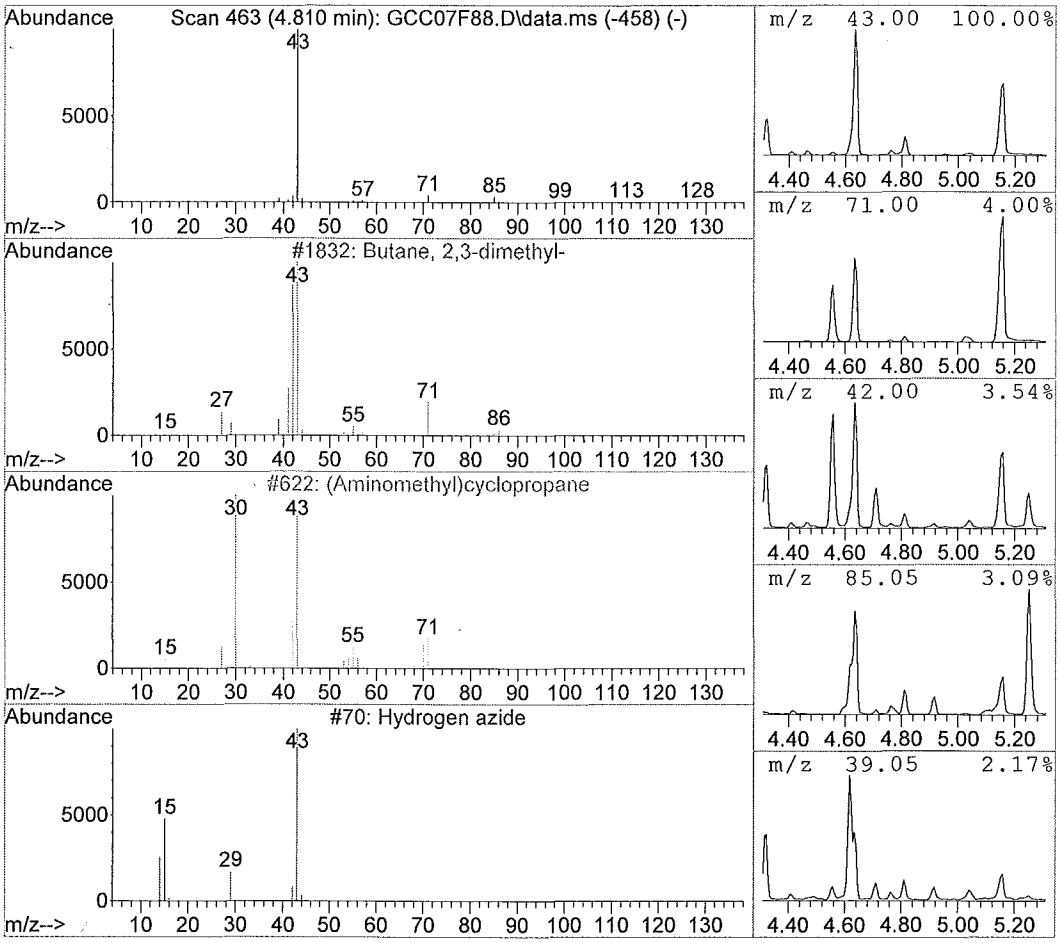
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.81	7.69 ug/ml	810272	1,4-Dichlorobenzene-d4	2108650

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Butane, 2,3-dimethyl-	1832	000079-29-8	3.00
2	(Aminomethyl)cyclopropane	622	002516-47-4	3.00
3	Hydrogen azide	70	007782-79-8	2.00
4	Pentane, 2-methyl-	1823	000107-83-5	2.00
5	Acetic anhydride	4227	000108-24-7	2.00

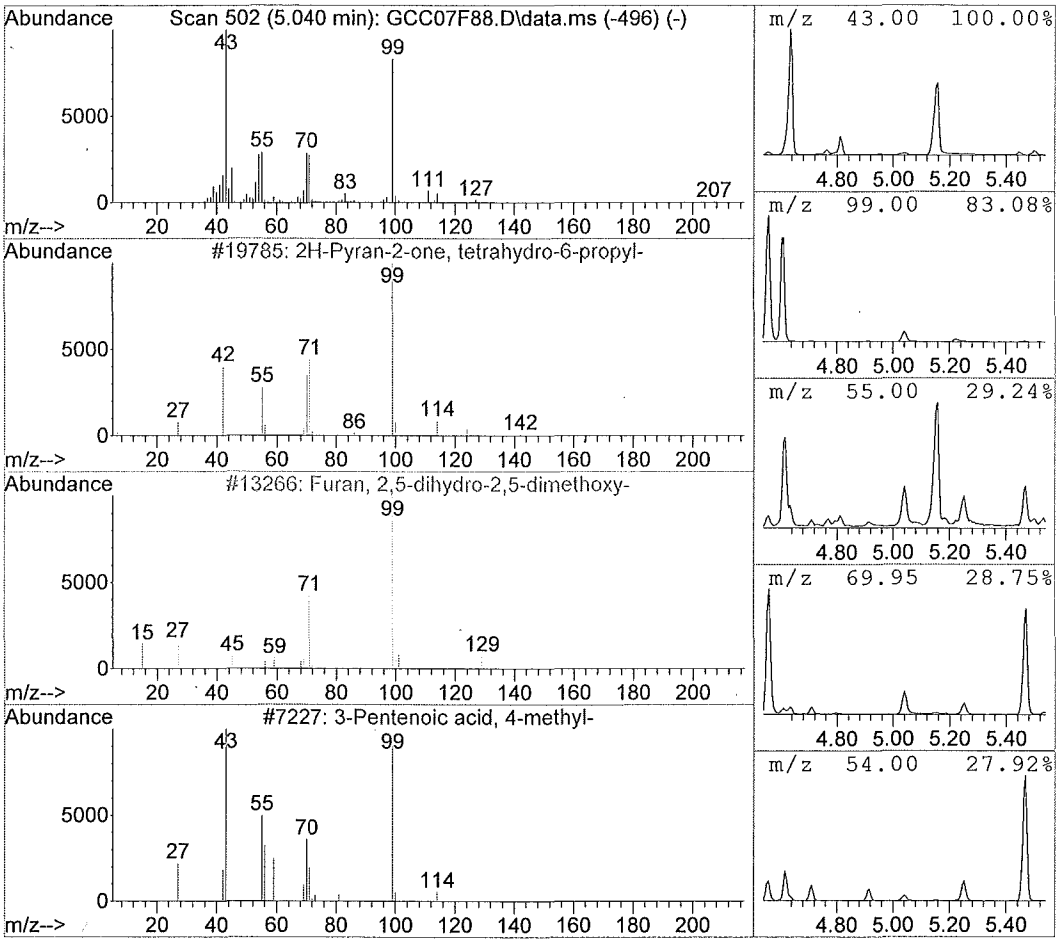


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.04	4.74 ug/ml	499752	1,4-Dichlorobenzene-d4	2108650

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2H-Pyran-2-one, tetrahydro-6-propyl	19785	000698-76-0	47.00
2	Furan, 2,5-dihydro-2,5-dimethoxy-	13266	000332-77-4	47.00
3	3-Pentenoic acid, 4-methyl-	7227	000504-85-8	47.00
4	3,4-Diamino-1,2,4(4H)-triazole	3435	038104-45-9	38.00
5	Phosphonofluoridic acid, methyl-, n	80493	211192-74-4	38.00

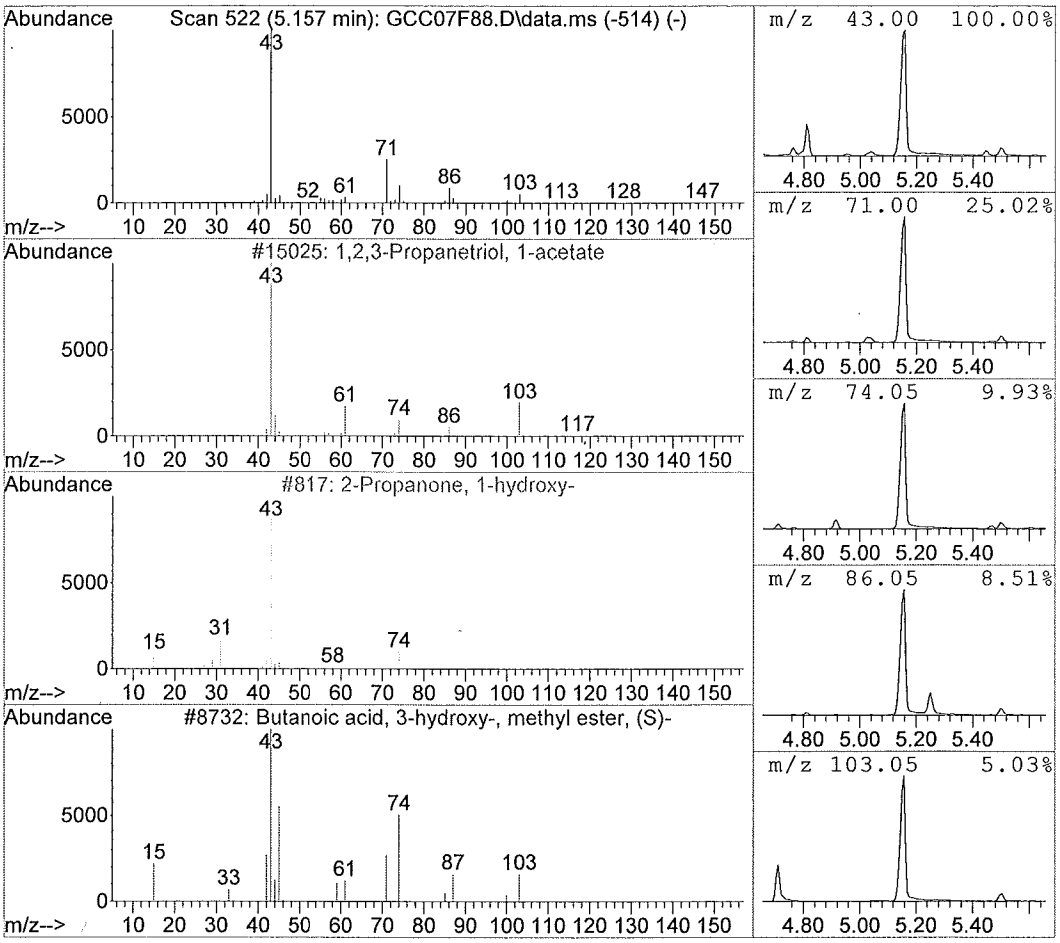


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.16	51.99 ug/ml	5481209	1,4-Dichlorobenzene-d4	2108650

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	32.00
2	2-Propanone, 1-hydroxy-	817	000116-09-6	27.00
3	Butanoic acid, 3-hydroxy-, methyl e	8732	053562-86-0	17.00
4	Butanoic acid, 3-hydroxy-, methyl e	8724	001487-49-6	12.00
5	2,3-Butanedione	1660	000431-03-8	9.00

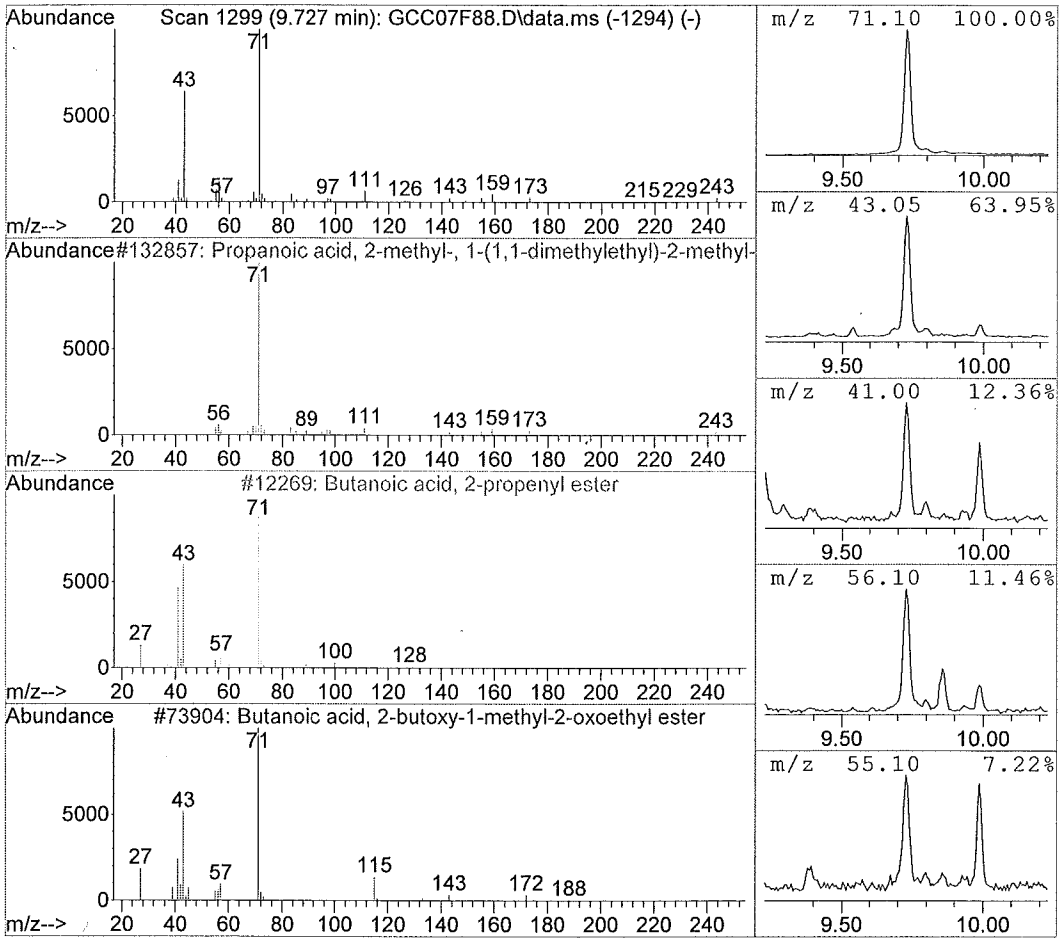


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.73	3.99 ug/ml	564344	Acenaphthene-d10	2826588

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propanoic acid, 2-methyl-, 1-(1,1-d	132857	074381-40-1	78.00
2	Butanoic acid, 2-propenyl ester	12269	002051-78-7	53.00
3	Butanoic acid, 2-butoxy-1-methyl-2-	73904	007492-70-8	50.00
4	2,2,4-Trimethyl-1,3-pentanediol dii	132814	006846-50-0	45.00
5	Pentanoic acid, 2,2,4-trimethyl-3-c	132856	1000140-77-5	43.00

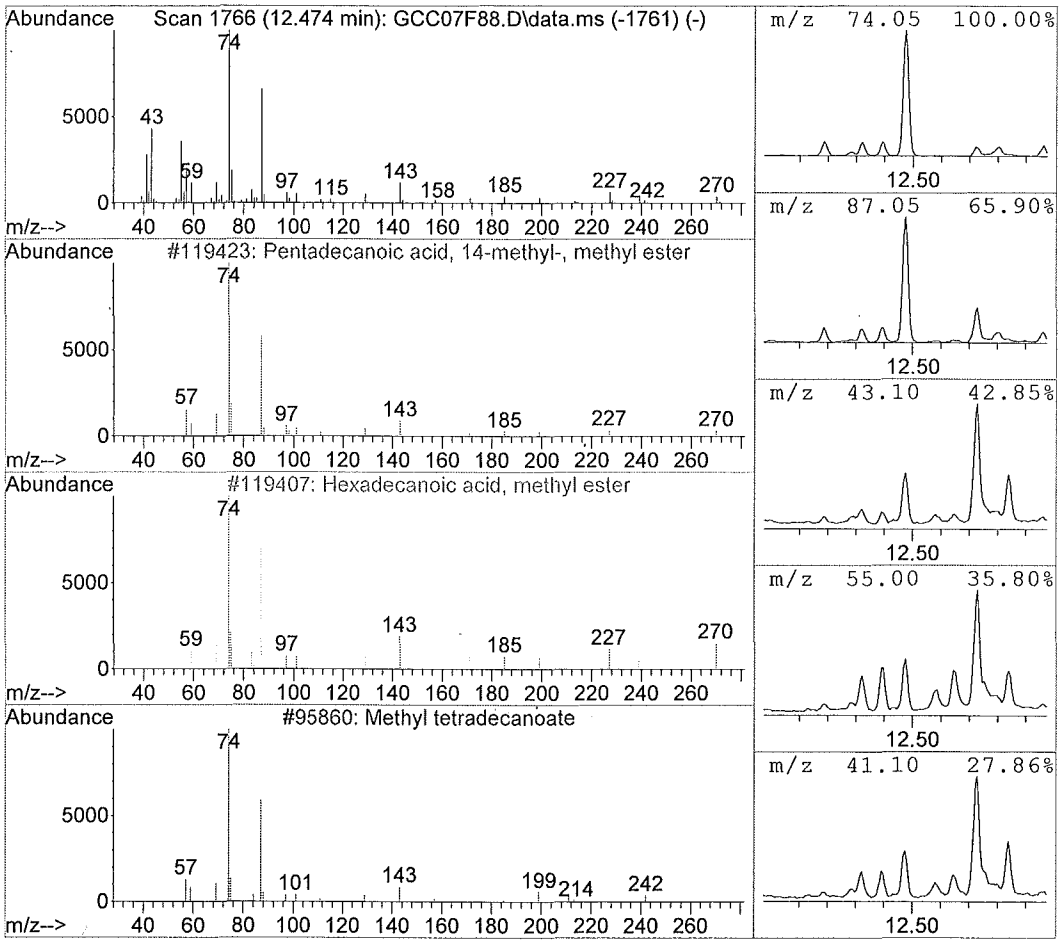


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.47	4.09 ug/ml	612842	Phenanthrene-d10	2997916

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	98.00
2	Hexadecanoic acid, methyl ester	119407	000112-39-0	97.00
3	Methyl tetradecanoate	95860	000124-10-7	93.00
4	Tridecanoic acid, methyl ester	84487	001731-88-0	91.00
5	Hexadecanoic acid, 15-methyl-, meth	131317	006929-04-0	91.00

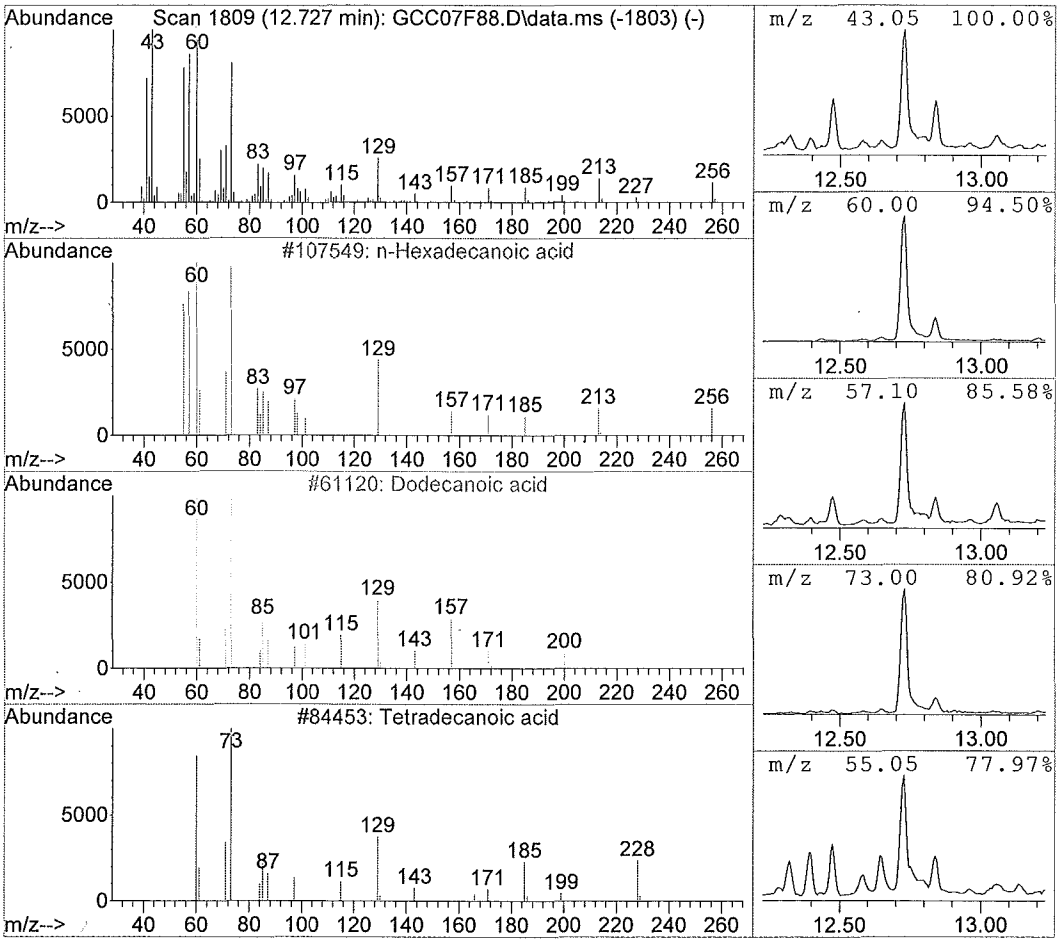


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.73	11.29 ug/ml	1692455	Phenanthrene-d10	2997916

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Dodecanoic acid	61120	000143-07-7	81.00
3	Tetradecanoic acid	84453	000544-63-8	72.00
4	Undecanoic acid	50051	000112-37-8	72.00
5	Pentadecanoic acid	95854	001002-84-2	64.00

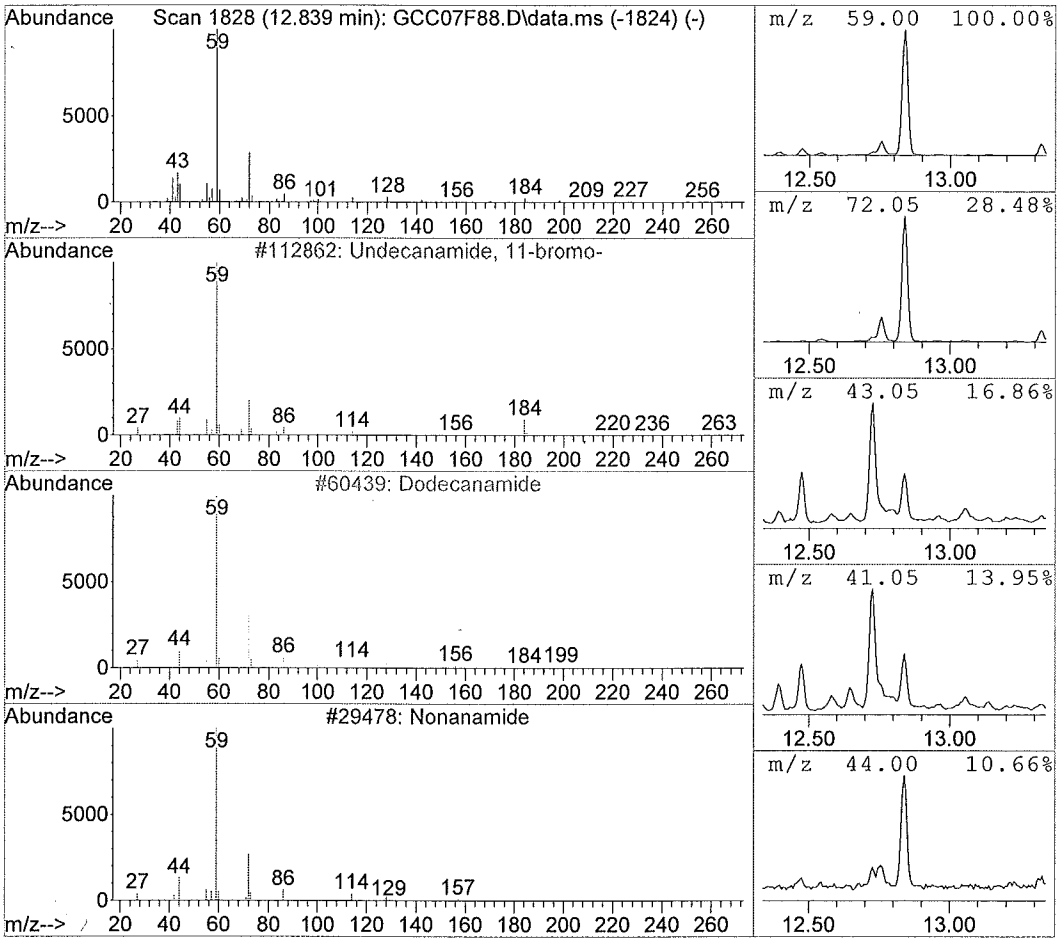


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.84	4.65 ug/ml	697312	Phenanthrene-d10	2997916

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
2	Dodecanamide	60439	001120-16-7	83.00
3	Nonanamide	29478	001120-07-6	74.00
4	6,8-Dichlorooctanamide	70436	003579-00-8	59.00
5	Hexadecanamide	106565	000629-54-9	56.00

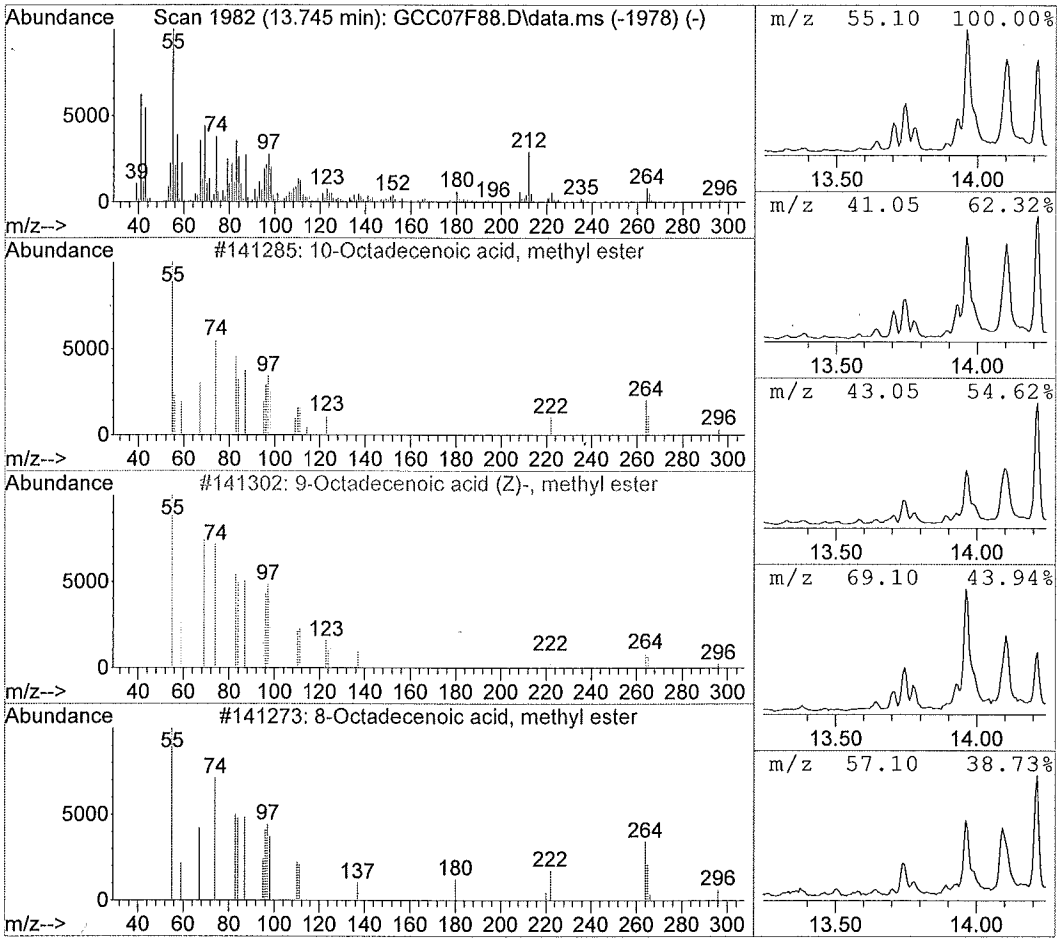


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.74	5.18 ug/ml	845303	Chrysene-d12	3265541

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	10-Octadecenoic acid, methyl ester	141285	013481-95-3	99.00
2	9-Octadecenoic acid (Z)-, methyl es	141302	000112-62-9	99.00
3	8-Octadecenoic acid, methyl ester	141273	002345-29-1	98.00
4	trans-13-Octadecenoic acid, methyl	141314	1000333-61-3	98.00
5	13-Octadecenoic acid, methyl ester	141286	056554-47-3	98.00

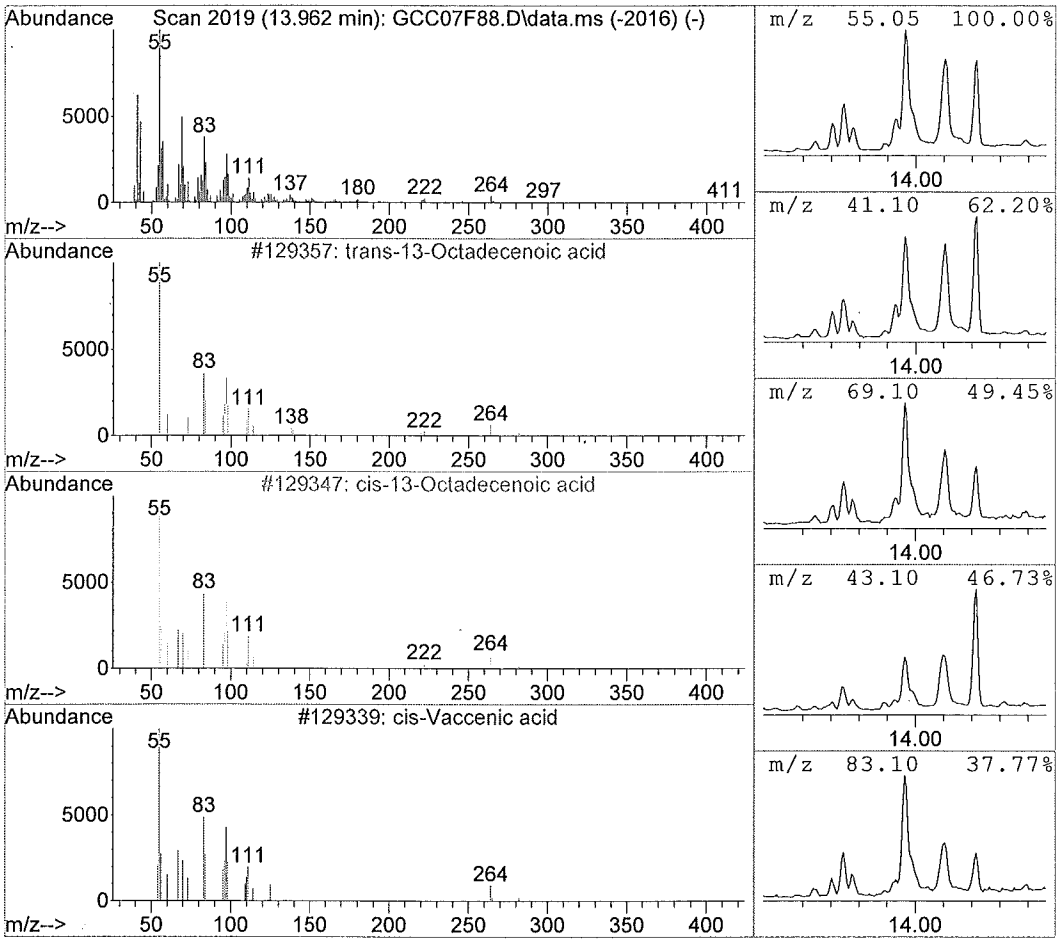


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.96	13.76 ug/ml	2247490	Chrysene-d12	3265541

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	trans-13-Octadecenoic acid	129357	000693-71-0	94.00
2	cis-13-Octadecenoic acid	129347	013126-39-1	91.00
3	cis-Vaccenic acid	129339	000506-17-2	87.00
4	Oleic Acid	129337	000112-80-1	83.00
5	Myristoleic acid	82760	000544-64-9	80.00



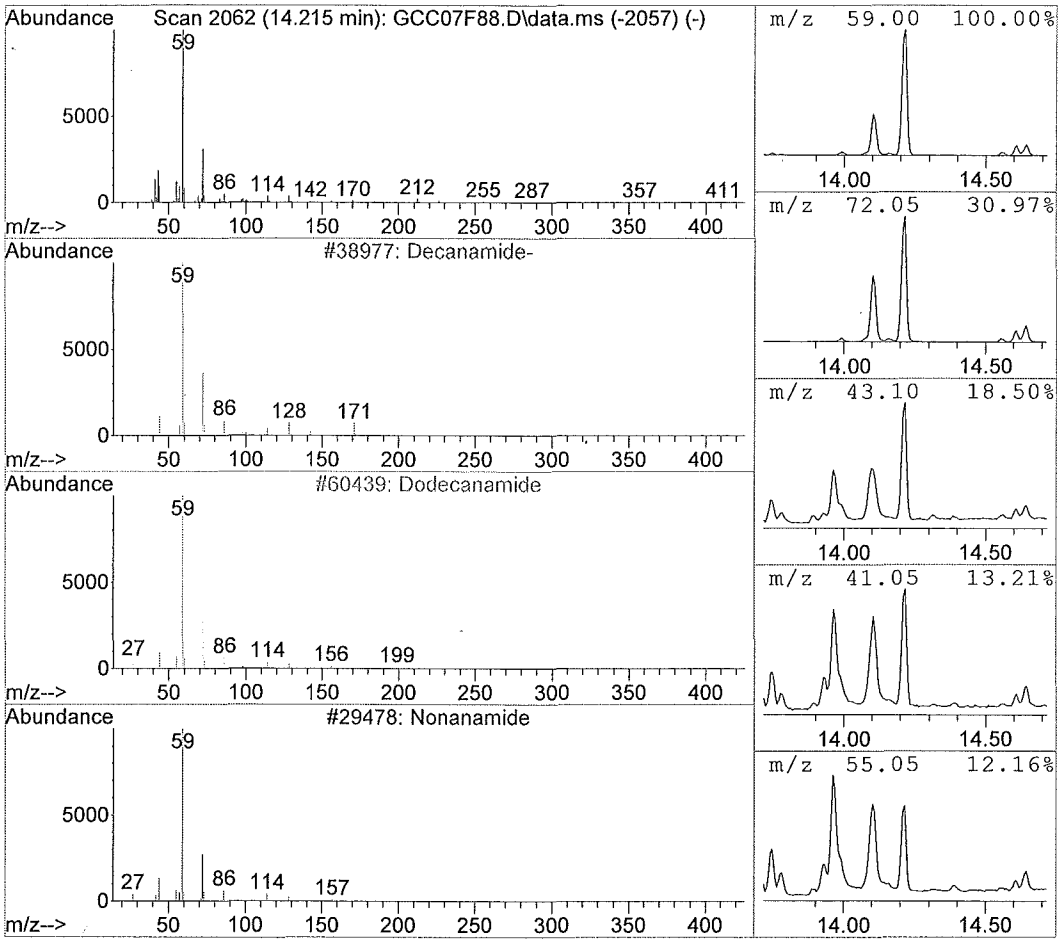
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.22	16.09 ug/ml	2627566	Chrysene-d12	3265541

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decanamide-	38977	002319-29-1	91.00
2	Dodecanamide	60439	001120-16-7	83.00
3	Nonanamide	29478	001120-07-6	78.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	78.00
5	Tetradecanamide	83609	000638-58-4	78.00



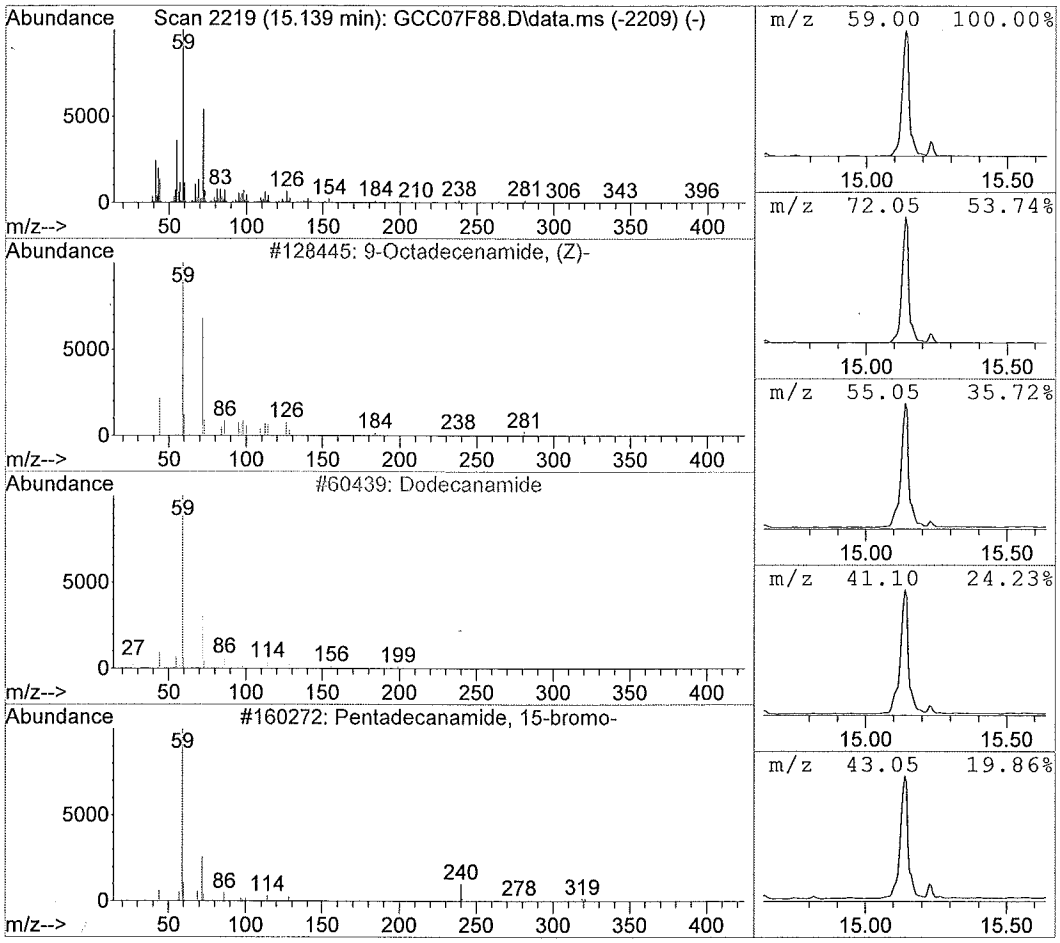
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.14	166.57 ug/ml	27196928	Chrysene-d12	3265541

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Dodecanamide	60439	001120-16-7	59.00
3	Pentadecanamide, 15-bromo-	160272	1000163-86-1	56.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	53.00
5	Nonanamide	29478	001120-07-6	50.00

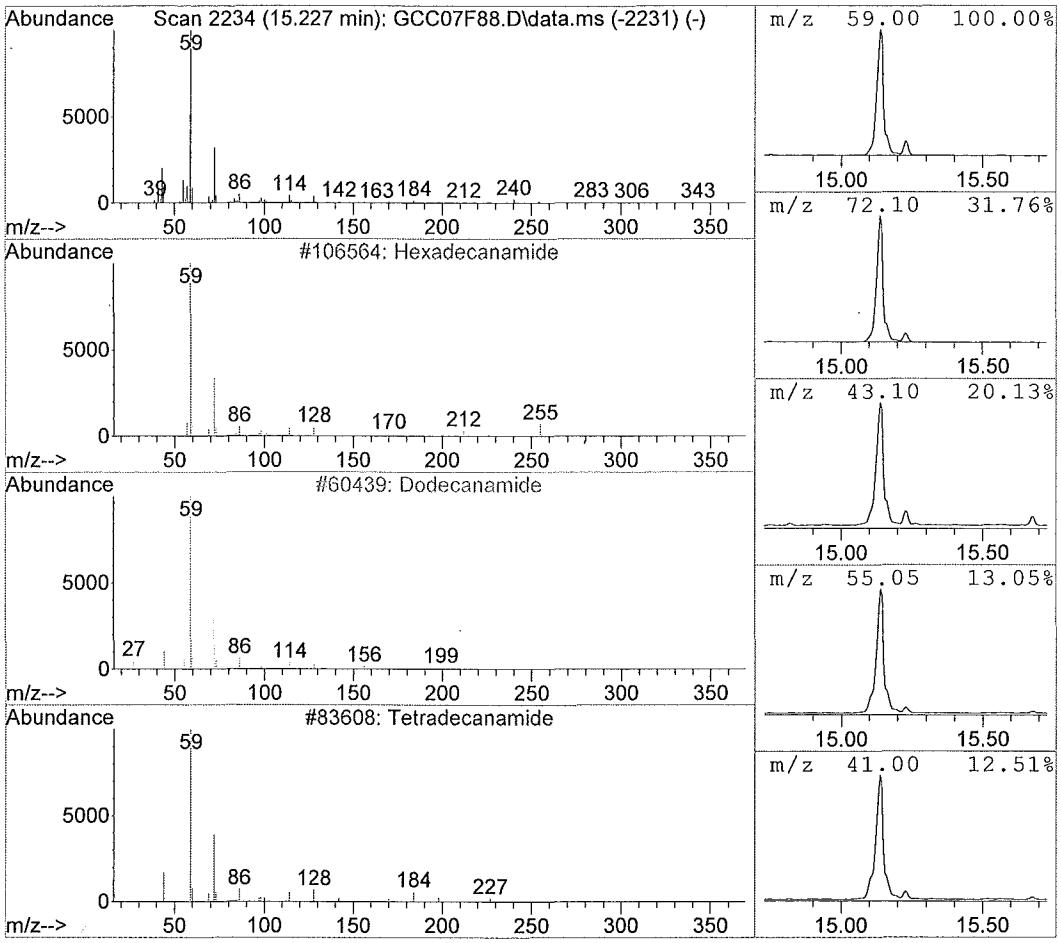


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.23	6.30 ug/ml	1029389	Chrysene-d12	3265541

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	96.00
2	Dodecanamide	60439	001120-16-7	83.00
3	Tetradecanamide	83608	000638-58-4	78.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	64.00
5	Pentanamide	4064	000626-97-1	64.00



Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.67	2.17 ug/ml	354343	Chrysene-d12	3265541

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	91.00
2	Octacosane	209566	000630-02-4	91.00
3	Hexadecane	83025	000544-76-3	90.00
4	Tetradecane, 6,9-dimethyl-	83045	055045-13-1	90.00
5	Heptacosane	202661	000593-49-7	87.00

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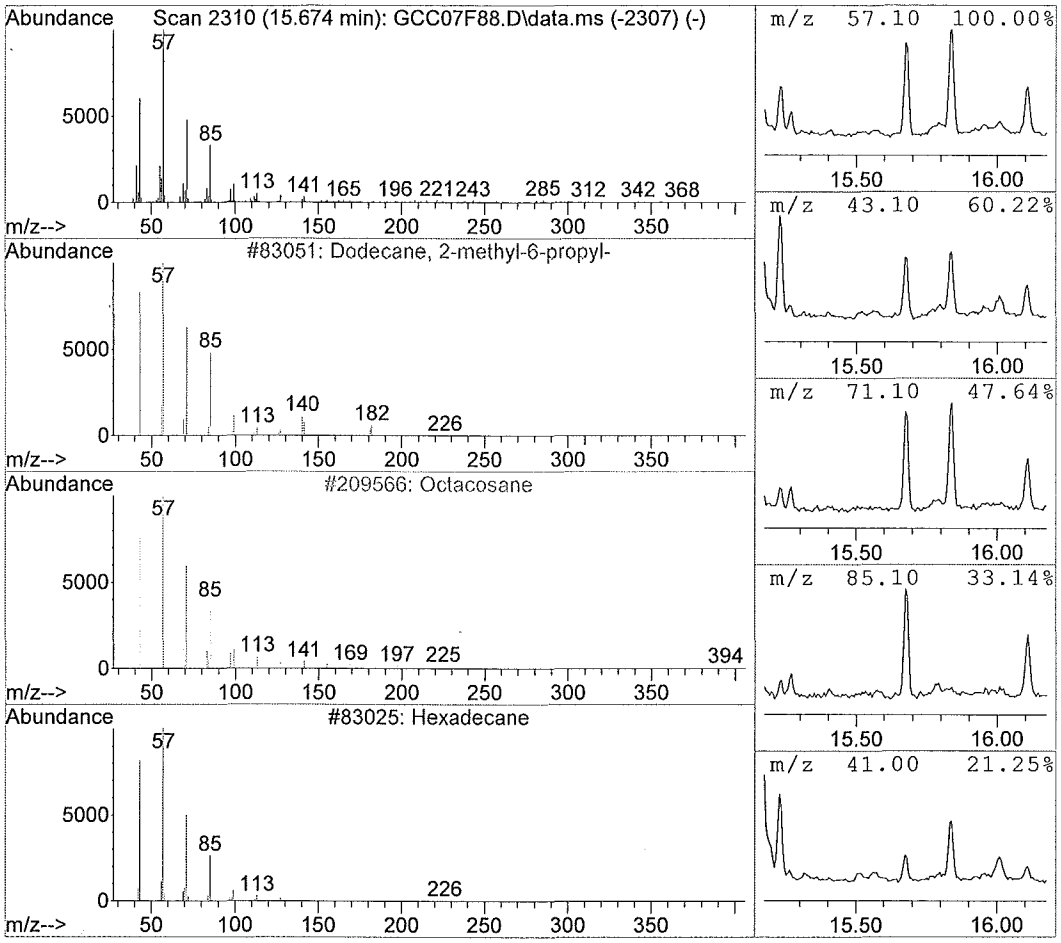
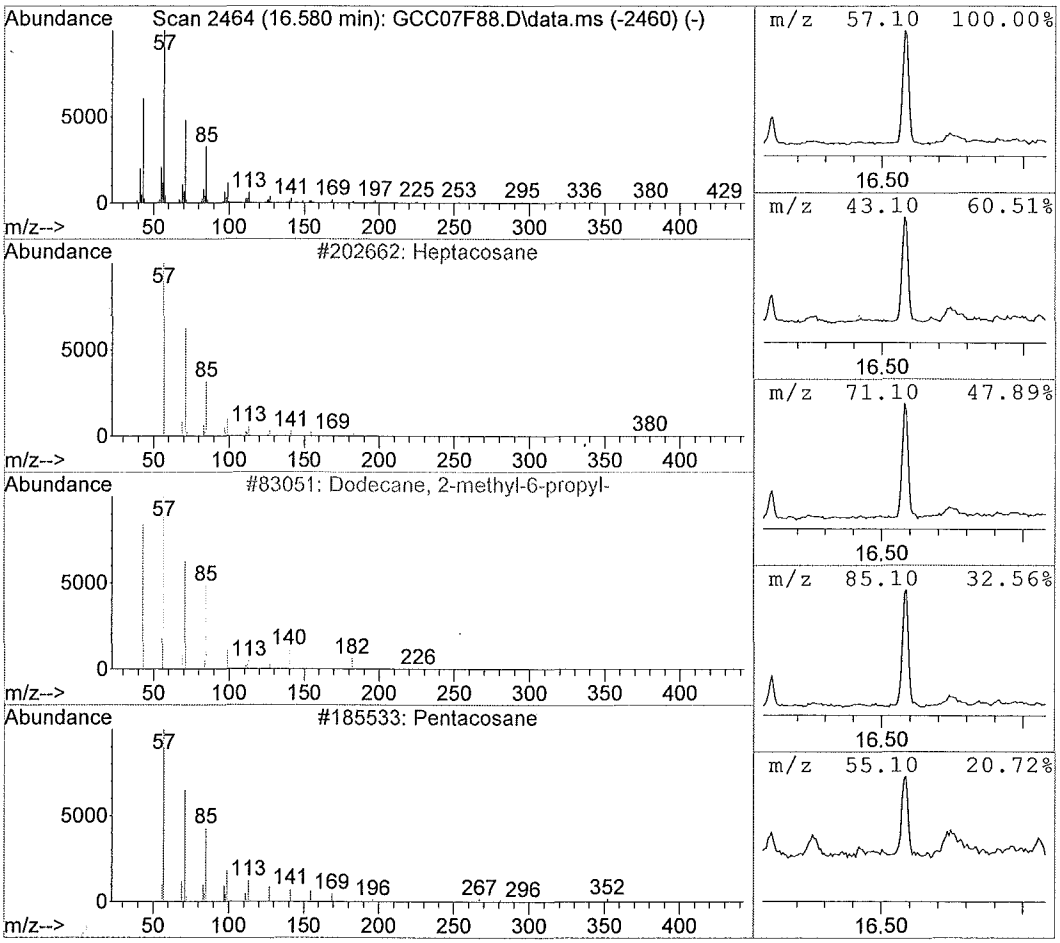


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.58	5.12 ug/ml	836710	Chrysene-d12	3265541

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	95.00
2	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	94.00
3	Pentacosane	185533	000629-99-2	94.00
4	Eicosane	129492	000112-95-8	91.00
5	Octacosane	209566	000630-02-4	90.00

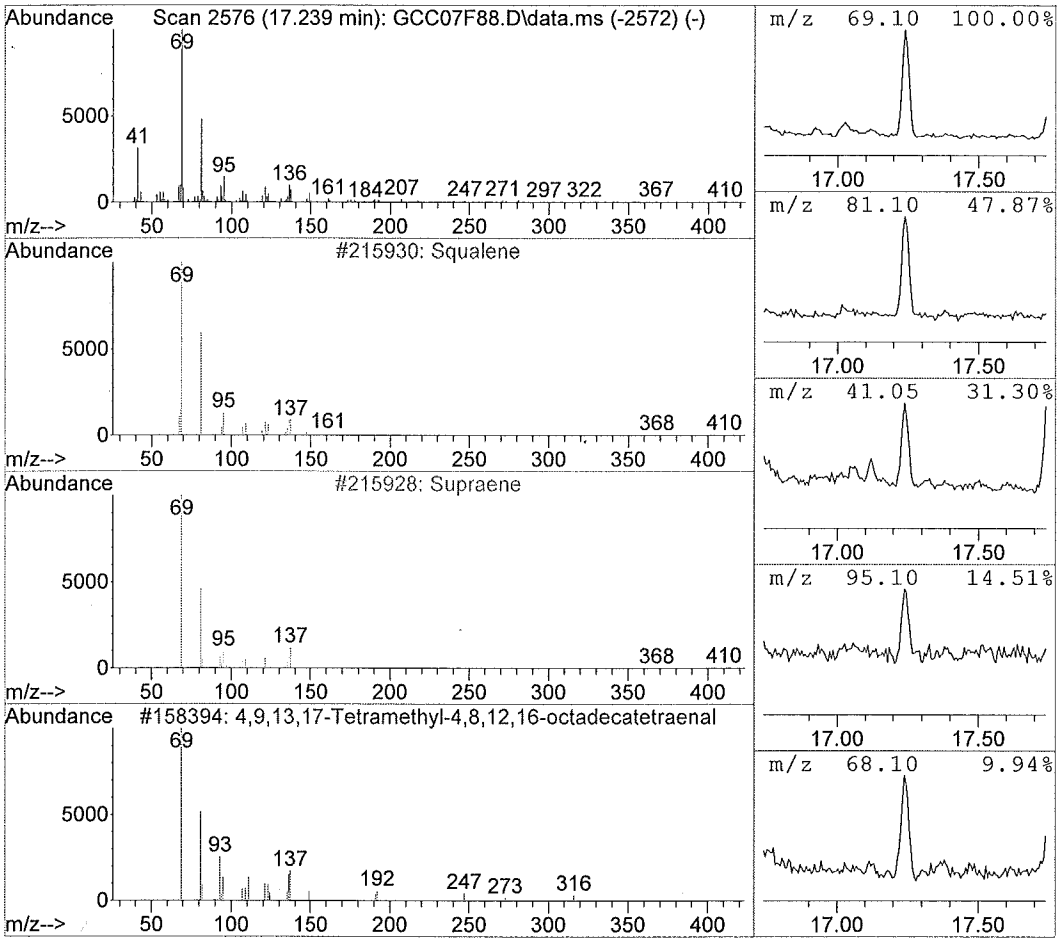


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.24	4.05 ug/ml	425740	Perylene-d12	2104762

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Squalene	215930	000111-02-4	93.00
2	Supraene	215928	007683-64-9	87.00
3	4,9,13,17-Tetramethyl-4,8,12,16-oct	158394	056882-09-8	83.00
4	Carbonic acid, methyl ester, [(E,E)	127573	1000164-38-7	72.00
5	Trideca-1,3,7,11-tetraene-1,1-dicar	117602	1000159-88-9	59.00

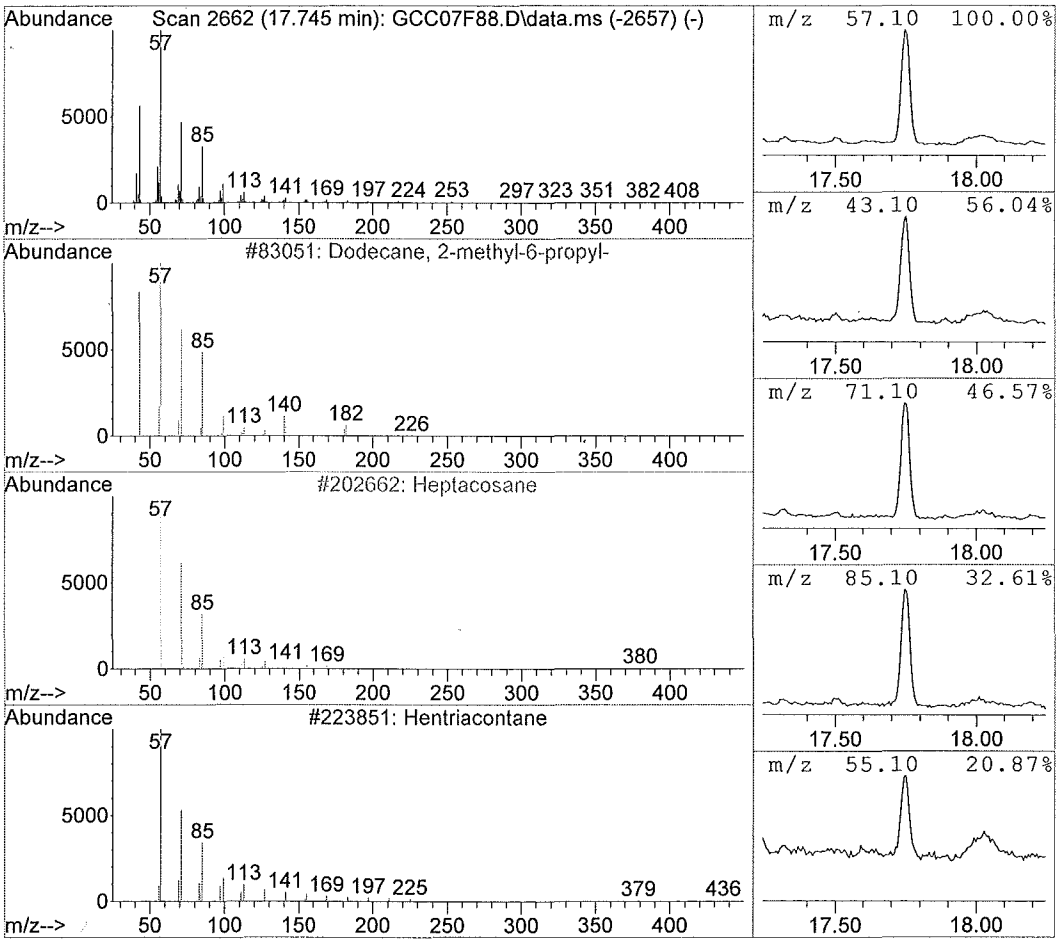


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.74	11.80 ug/ml	1241811	Perylene-d12	2104762

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane, 2-methyl-6-propyl- BA	83051	055045-08-4	91.00
2	Heptacosane	202662	000593-49-7	91.00
3	Hentriacontane	223851	000630-04-6	91.00
4	Nonadecane, 9-methyl-	129499	013287-24-6	90.00
5	Octacosane	209566	000630-02-4	87.00

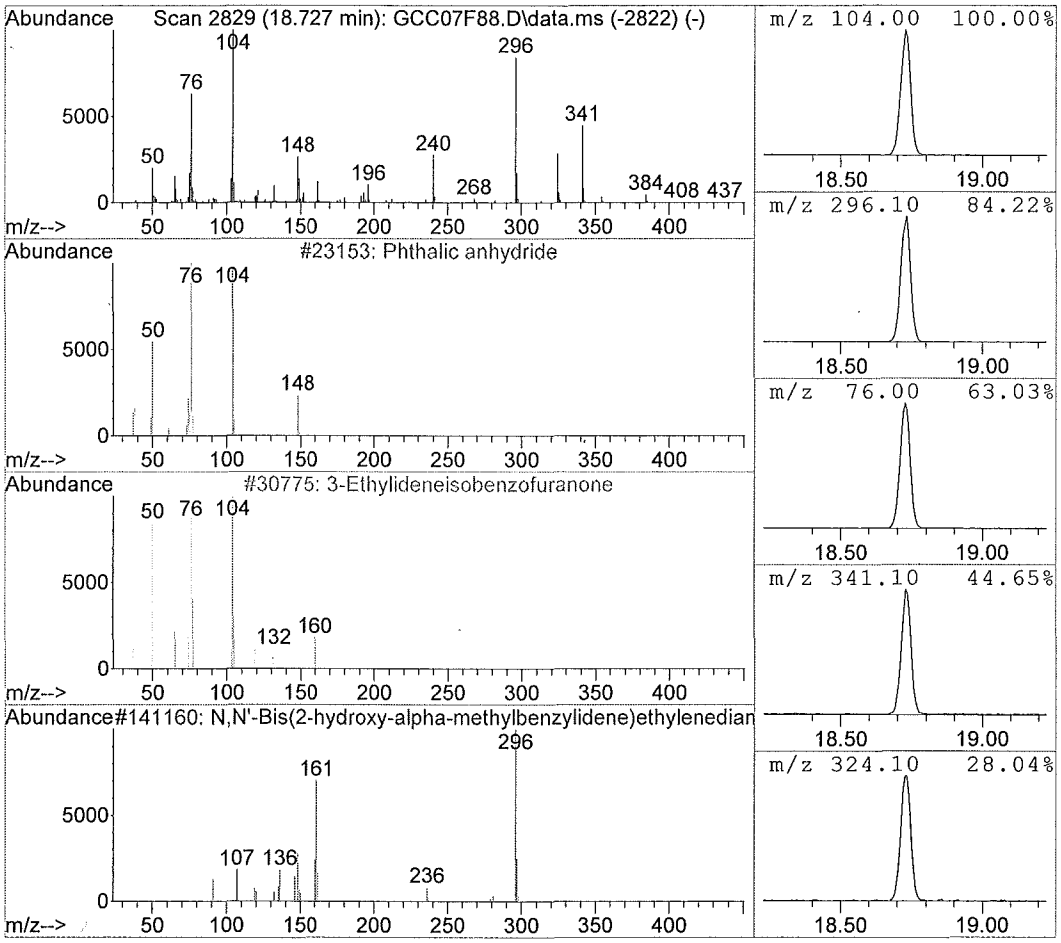


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.73	16.26 ug/ml	1711333	Perylene-d12	2104762

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23153	000085-44-9	27.00
2	3-Ethylideneisobenzofuranone	30775	004767-63-9	22.00
3	N,N'-Bis(2-hydroxy-alpha-methylbenz	141160	005464-60-8	18.00
4	Phthalic acid, monoethyl ester	55736	002306-33-4	16.00
5	1,2-Benzenedicarboxylic acid	35572	000088-99-3	16.00

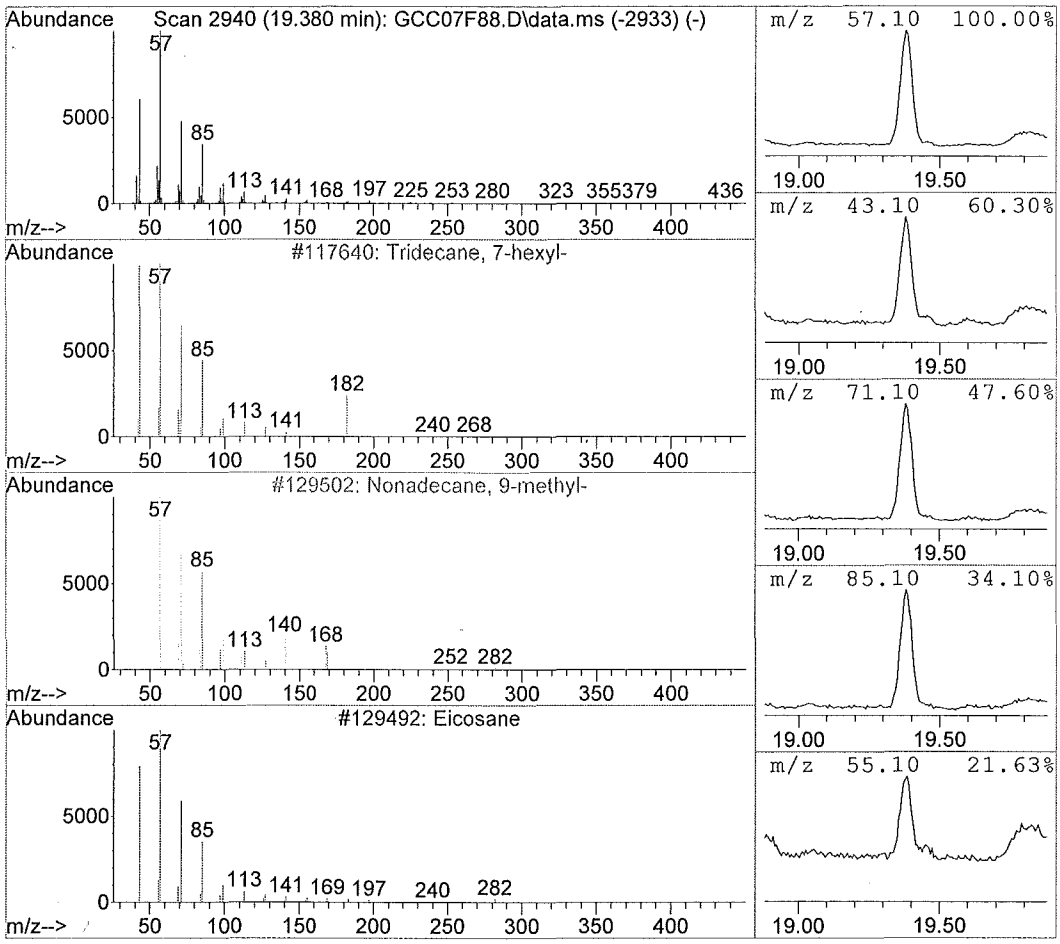


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.38	11.69 ug/ml	1229995	Perylene-d12	2104762

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane, 7-hexyl-	117640	007225-66-3	91.00
2	Nonadecane, 9-methyl-	129502	013287-24-6	86.00
3	Eicosane	129492	000112-95-8	83.00
4	Tridecane, 1-iodo-	152416	035599-77-0	81.00
5	Hexadecane	83025	000544-76-3	81.00



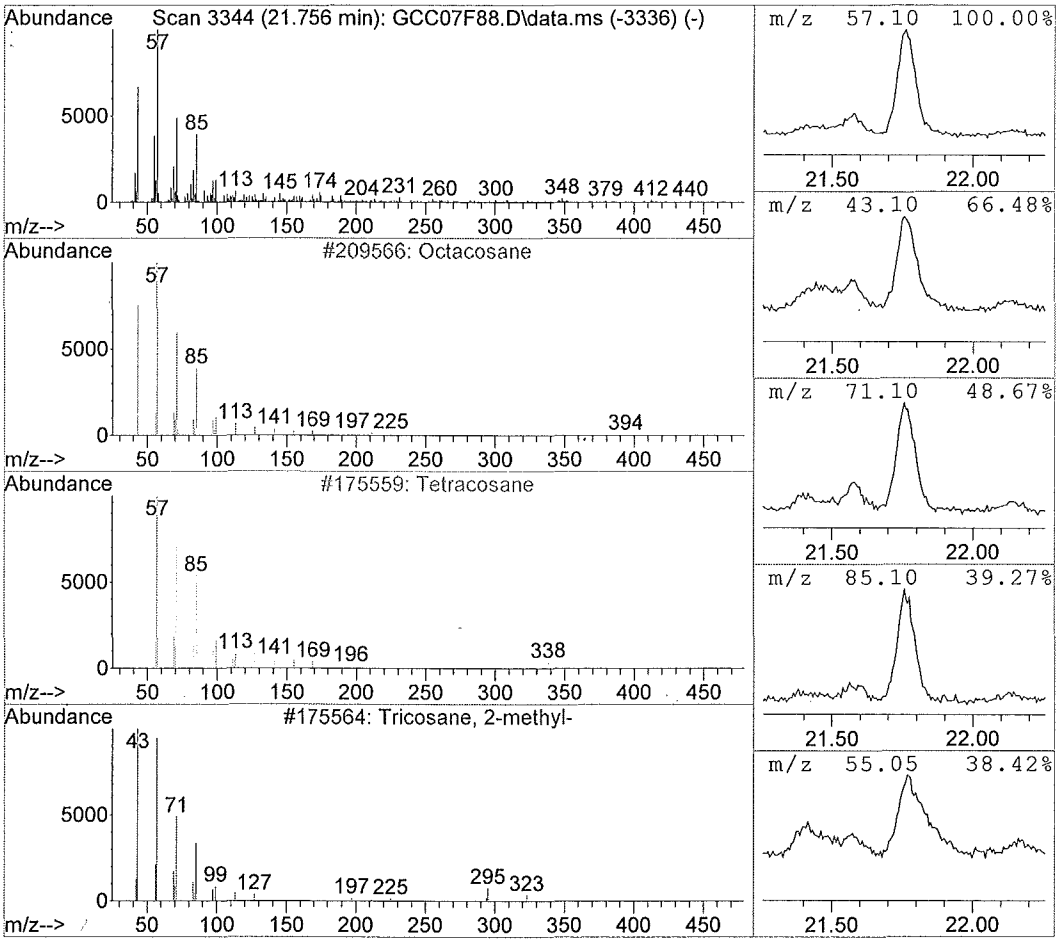
Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.76	4.49 ug/ml	473000	Perylene-d12	2104762

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octacosane	209566	000630-02-4	92.00
2	Tetracosane	175559	000646-31-1	90.00
3	Tricosane, 2-methyl-	175564	001928-30-9	83.00
4	Tridecane, 1-iodo-	152416	035599-77-0	80.00
5	Heptadecane, 3-methyl-	105891	006418-44-6	80.00

SA

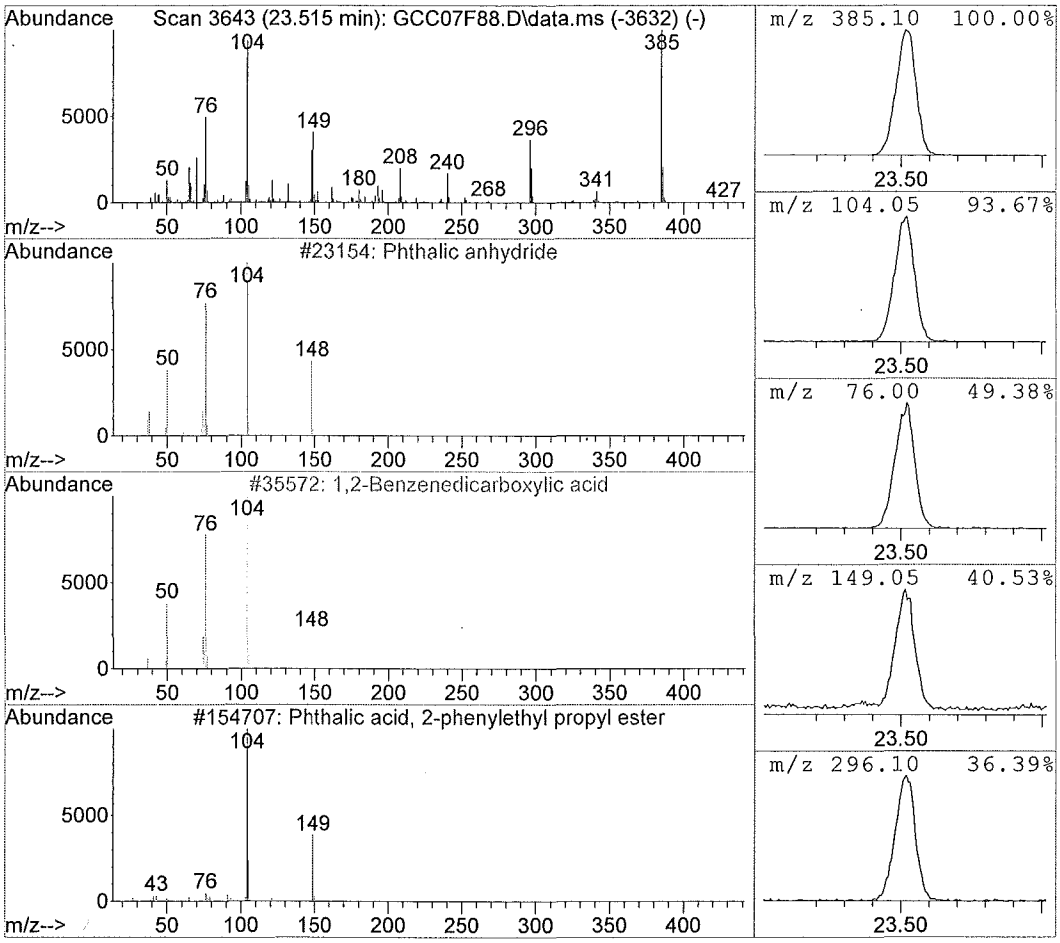


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC07F88.D Vial: 6
Acq On : 06/24/2015 10:13 Operator: SY
Sample : 1515725008 F9M88 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.51	19.78 ug/ml	2081812	Perylene-d12	2104762

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23154	000085-44-9	27.00
2	1,2-Benzenedicarboxylic acid	35572	000088-99-3	27.00
3	Phthalic acid, 2-phenylethyl propyl	154707	1000309-77-1	12.00
4	Phthalic acid, butyl 2-phenylethyl	165999	1000309-77-3	12.00
5	Glutaric acid, butyl 2-methylbenzyl	137777	1000371-32-6	11.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M89

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725009

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCB10F89

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/23/2015

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	360	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	360	U
83-32-9	Acenaphthene	190	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M89

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725009

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCB10F89

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/23/2015

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	360	U
100-02-7	4-Nitrophenol	360	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	360	U
534-52-1	4,6-Dinitro-2-methylphenol	360	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	120	J
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9M89

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725009

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCB10F89

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/23/2015

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	814-78-8	3-Buten-2-one, 3-methyl-	2.22	160	JN
02		Unknown Methyl glyoxal	2.30	150	J
03		Unknown Pentane, 2-bromo-4-methyl-	2.84	140	J
04		Unknown 2-Pentanone, 4-hydroxy-	3.34	670	JB
05		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.55	14000	JB
06		Unknown 2-Nonanone	4.12	320	JB
07		Unknown Hexane, 1,1'-oxybis-	4.23	350	J
08		Unknown 1H-Pyrrole-2,5-dione	4.32	490	J
09		Unknown 1,2,3-Propanetriol, 1-acetate	5.14	770	J
10		Unknown Nonanamide	12.83	220	J
11	2319-29-1	Decanamide-	14.21	890	JN
12	301-02-0	9-Octadecenamide, (Z)-	14.64	120	JN
13	301-02-0	9-Octadecenamide, (Z)-	15.14	9000	JNB
14	629-54-9	Hexadecanamide	15.23	350	JNB
15	301-02-0	9-Octadecenamide, (Z)-	16.01	140	JN
16		Unknown Phthalic anhydride	18.72	760	J
17		Unknown 1,2-Benzenedicarboxylic acid	23.49	600	J
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	1500	J

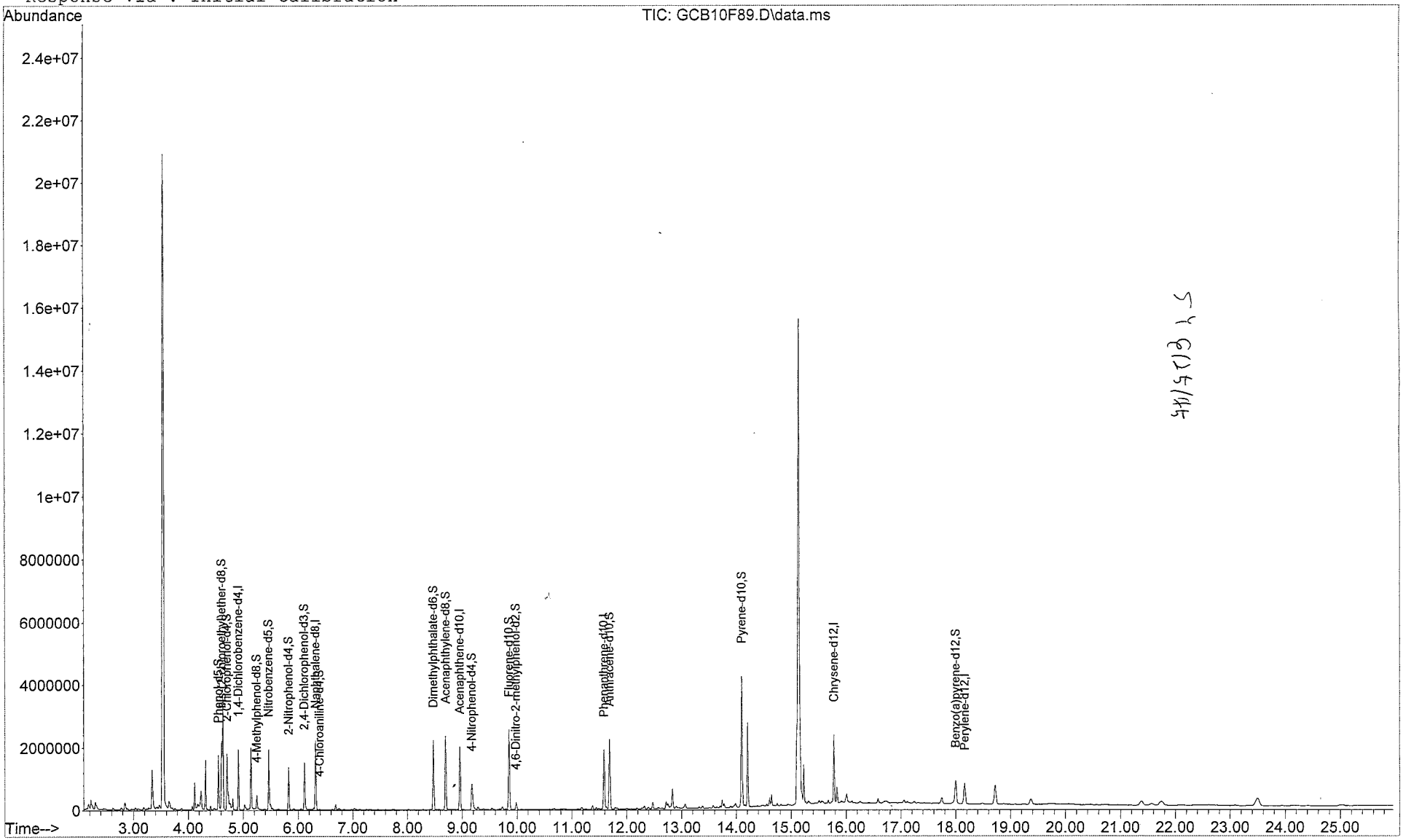
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB10F89.D Vial: 32
Acq On : 06/23/2015 22:03 Operator: TJM
Sample : 1515725009 F9M89 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 24 13:37:36 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration



GCB10F89.D GSOM01D6.M Wed Jun 24 13:44:42 2015 Page 3

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB10F89.D Vial: 32
Acq On : 06/23/2015 22:03 Operator: TJM
Sample : 1515725009 F9M89 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 24 13:37:36 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.91	152	293592	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1123253	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	644956	20.00 ug/ml
59) Phenanthrene-d10	11.59	188	1067794	20.00 ug/ml
73) Chrysene-d12	15.78	240	928454	20.00 ug/ml
81) Perylene-d12	18.16	264	477425	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.55	99	561802	21.989ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	460018	23.104ug/mL
7) 2-Chlorophenol-d4	4.70	132	474897	22.015ug/ml
13) 4-Methylphenol-d8	5.25	113	98058	5.738ug/mL
17) Nitrobenzene-d5	5.46	128	236627	23.980ug/ml
21) 2-Nitrophenol-d4	5.83	143	242919	23.291ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	348767	21.475ug/mL
28) 4-Chloroaniline-d4	6.40	131	10704	0.604ug/mL
42) Dimethylphthalate-d6	8.47	166	1159768	28.677ug/mL
45) Acenaphthylene-d8	8.70	160	1408513	25.627ug/mL
50) 4-Nitrophenol-d4	9.18	143	222363	26.951ug/mL
57) Fluorene-d10	9.86	176	954150	27.626ug/mL
61) 4,6-Dinitro-2-methylphenol	9.99	200	42289	5.580ug/mL
69) Anthracene-d10	11.69	188	1382131	24.408ug/mL
75) Pyrene-d10	14.10	212	1368486	29.535ug/mL
86) Benzo(a)pyrene-d12	18.00	264	509749	22.282ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

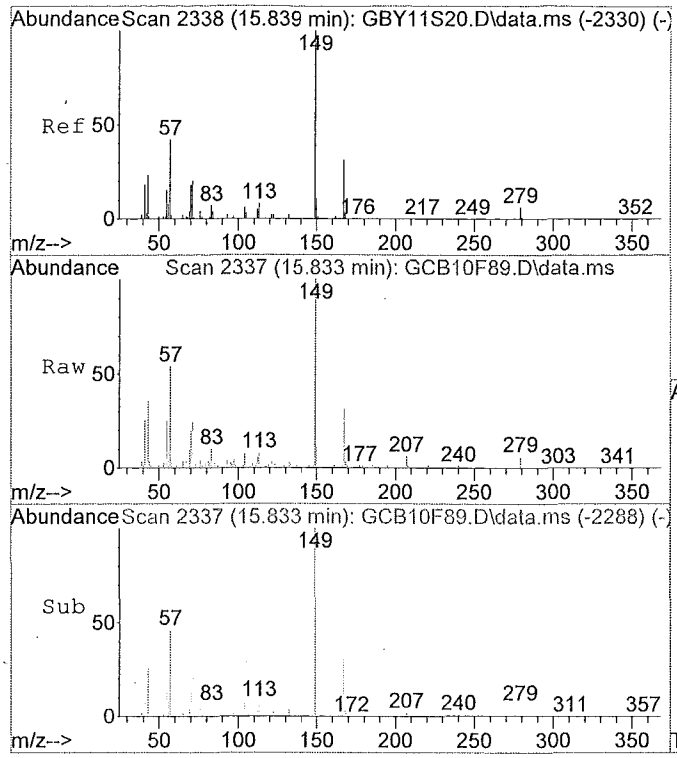
Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB10F89.D Vial: 32
Acq On : 06/23/2015 22:03 Operator: TJM
Sample : 1515725009 F9M89 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 24 13:37:36 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	0.00	152		Not Detected	
46)	3-Nitroaniline	0.00	138		Not Detected	
47)	Acenaphthene	0.00	153		Not Detected	
48)	2,4-Dinitrophenol	0.00	184		Not Detected	
49)	4-Nitrophenol	0.00	109		Not Detected	
51)	Dibenzofuran	0.00	168		Not Detected	
52)	2,4-Dinitrotoluene	0.00	165		Not Detected	
53)	2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54)	Diethylphthalate	0.00	149		Not Detected	
55)	4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56)	Fluorene	0.00	166		Not Detected	
58)	4-Nitroaniline	0.00	138		Not Detected	
60)	4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62)	N-Nitrosodiphenylamine	0.00	169		Not Detected	
63)	4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64)	Hexachlorobenzene	0.00	284		Not Detected	
65)	Atrazine	0.00	200		Not Detected	
66)	Pentachlorophenol	0.00	266		Not Detected	
67)	Phenanthrene	0.00	178		Not Detected	
68)	Anthracene	0.00	178		Not Detected	
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	0.00	202		Not Detected	
74)	Pyrene	0.00	202		Not Detected	
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	0.00	228		Not Detected	
79)	Chrysene	0.00	228		Not Detected	
80)	Bis-(2-ethylhexyl)phthalat	15.83	149	155522	3.387ug/ml	99
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	0.00	252		Not Detected	
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	0.00	252		Not Detected	
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

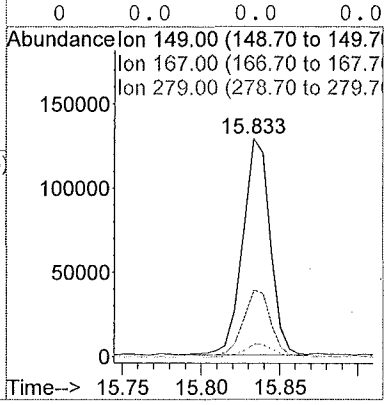
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#80
Bis-(2-ethylhexyl)phthalate
Concen: 3.39 ug/ml
RT: 15.83 min Scan# 2337
Delta R.T. -0.01 min
Lab File: GCB10F89.D
Acq: 06/23/2015 22:03

Tgt Ion:149 Resp: 155522

Ion	Ratio	Lower	Upper
149	100		
167	31.0	22.0	40.8
279	6.2	5.0	9.2
0	0.0	0.0	0.0



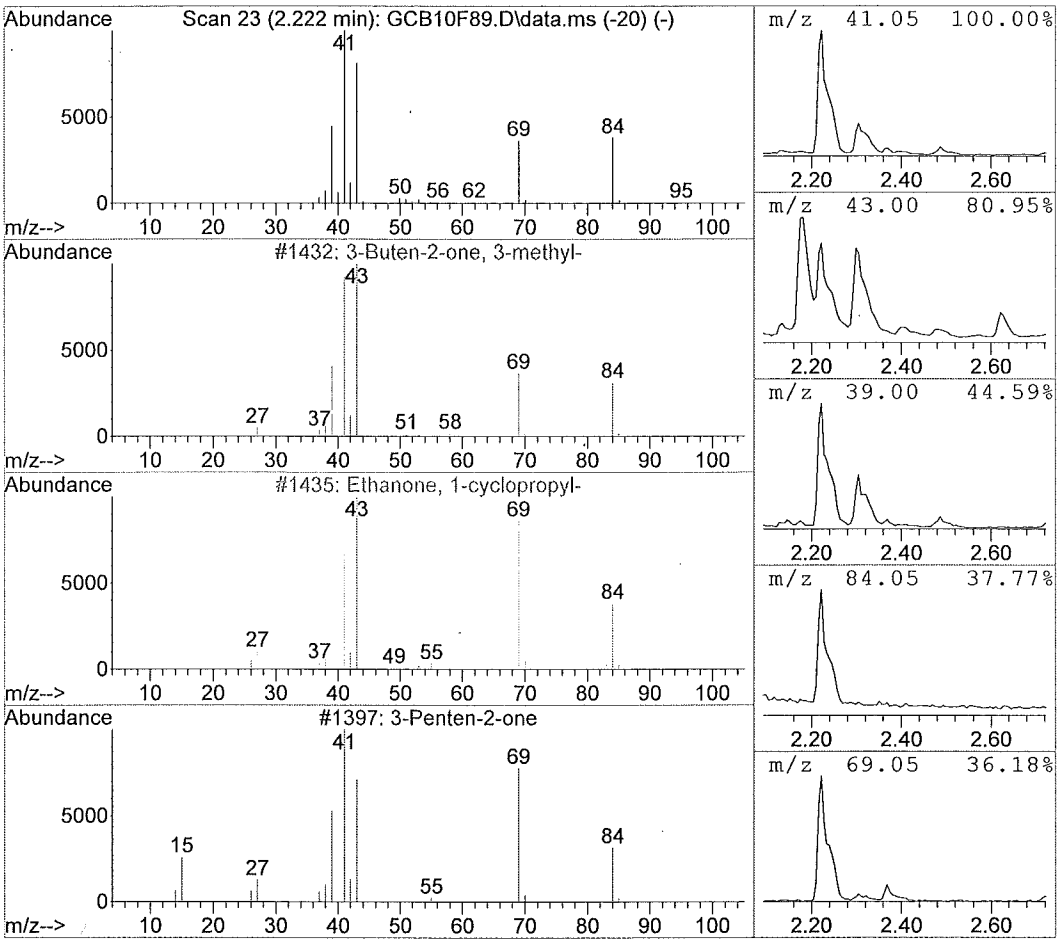
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB10F89.D Vial: 32
Acq On : 06/23/2015 22:03 Operator: TJM
Sample : 1515725009 F9M89 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.22	4.43 ug/ml	444586	1,4-Dichlorobenzene-d4	2005797

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Buten-2-one, 3-methyl-	1432	000814-78-8	91.00
2	Ethanone, 1-cyclopropyl-	1435	000765-43-5	47.00
3	3-Penten-2-one	1397	000625-33-2	25.00
4	2-Butanone, 4-hydroxy-3-(hydroxymet	14338	006868-97-9	25.00
5	2,2,6-Trimethyl-4H-1,3-dioxin-4-one	19499	005394-63-8	17.00



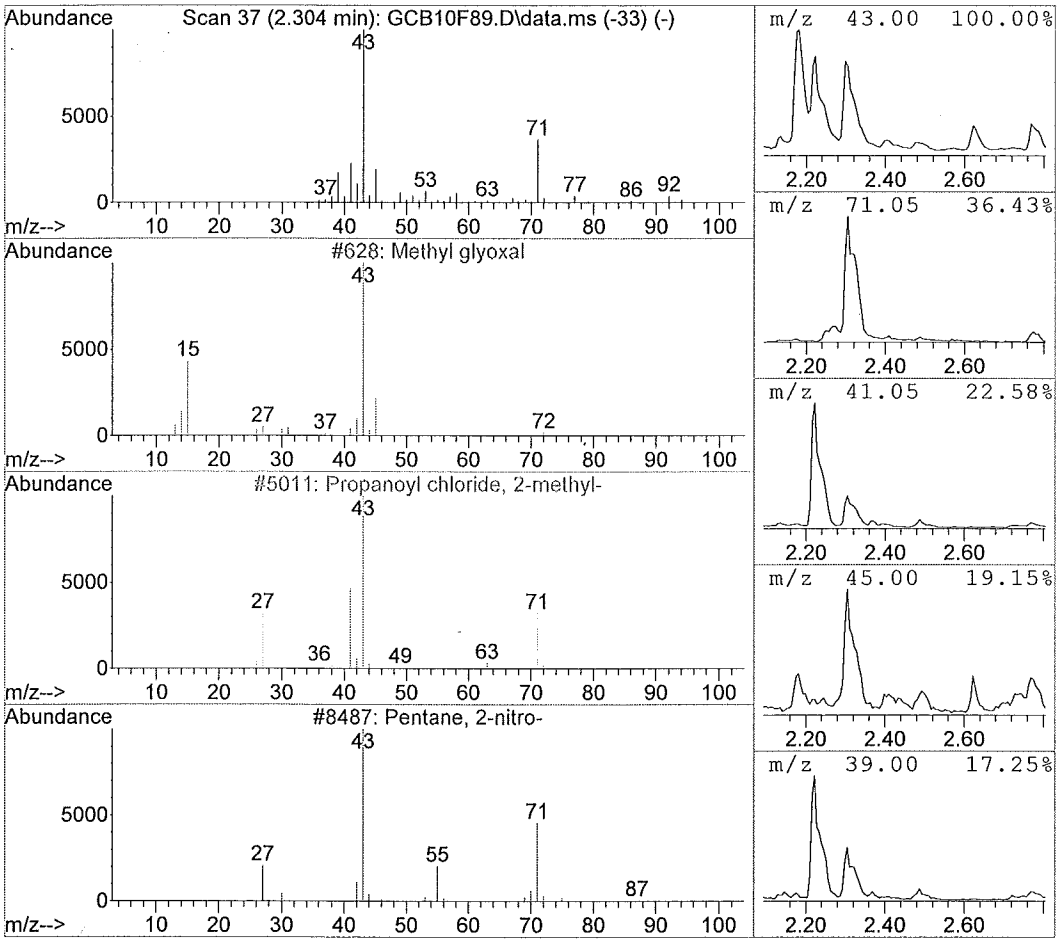
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB10F89.D Vial: 32
Acq On : 06/23/2015 22:03 Operator: TJM
Sample : 1515725009 F9M89 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.30	3.97 ug/ml	398450	1,4-Dichlorobenzene-d4	2005797

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methyl glyoxal	628	000078-98-8	46.00
2	Propanoyl chloride, 2-methyl-	5011	000079-30-1	37.00
3	Pentane, 2-nitro-	8487	004609-89-6	25.00
4	2-Propanone, 1-chloro-	2407	000078-95-5	22.00
5	Butane, 2,3-dimethyl-	1828	000079-29-8	17.00

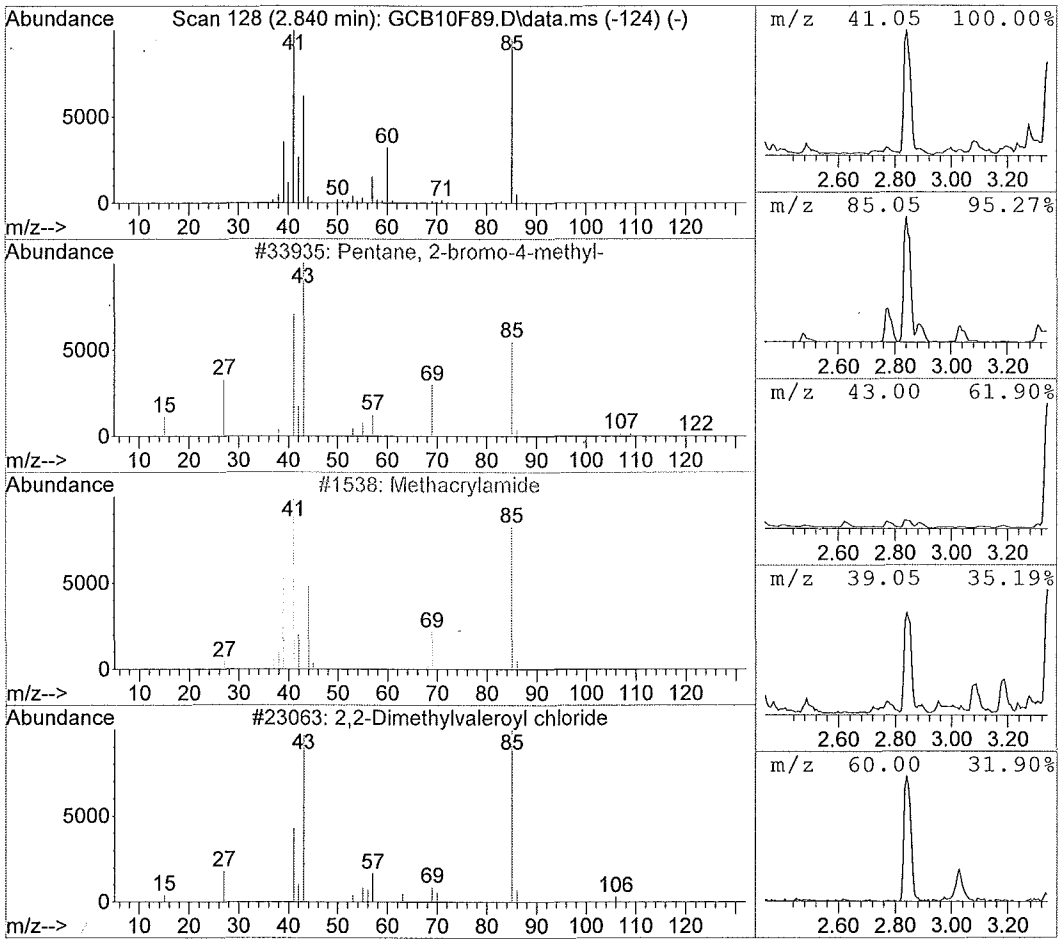


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB10F89.D Vial: 32
Acq On : 06/23/2015 22:03 Operator: TJM
Sample : 1515725009 F9M89 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.84	3.79 ug/ml	379970	1,4-Dichlorobenzene-d4	2005797

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentane, 2-bromo-4-methyl-	33935	030310-22-6	38.00
2	Methacrylamide	1538	000079-39-0	36.00
3	2,2-Dimethylvaleroyl chloride	23063	015721-22-9	33.00
4	4-Methoxycarbonyl-4-butanolide	20612	003885-29-8	25.00
5	5-Oxotetrahydrofuran-2-carboxylic a	13208	004344-84-7	25.00

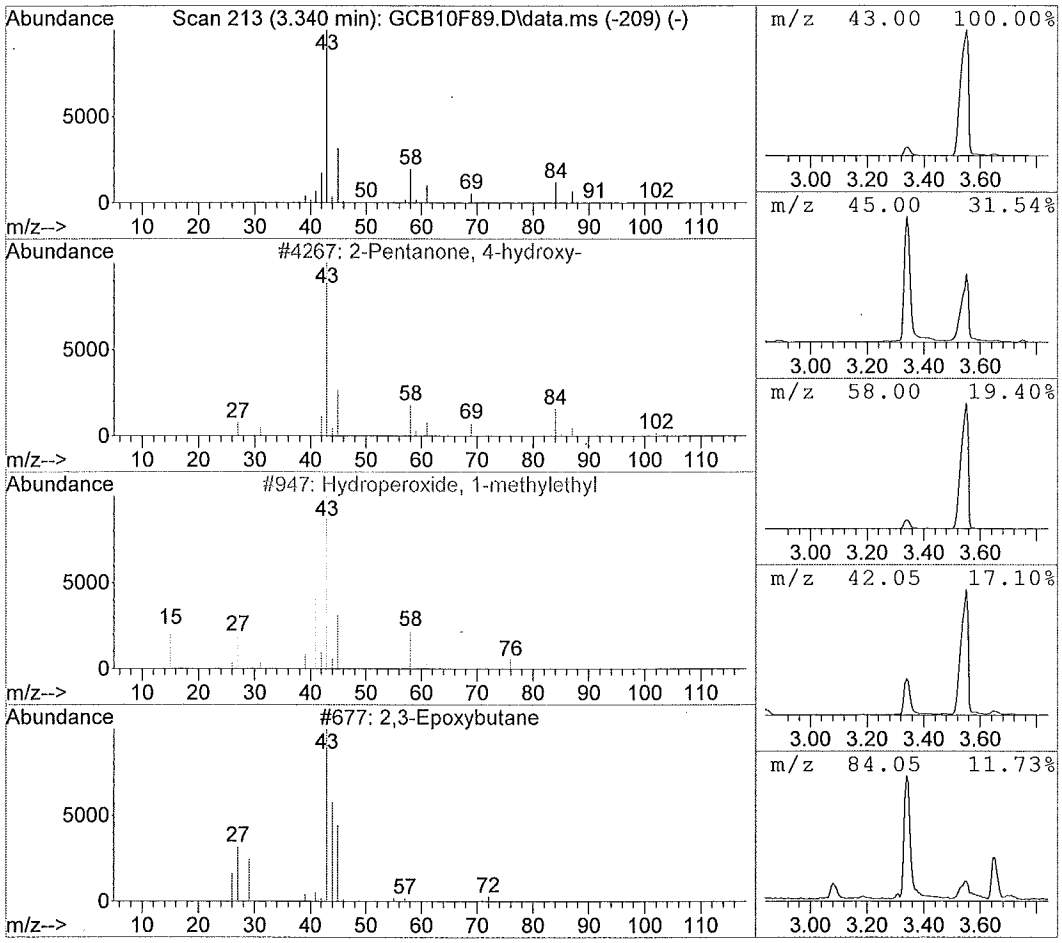


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB10F89.D Vial: 32
Acq On : 06/23/2015 22:03 Operator: TJM
Sample : 1515725009 F9M89 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.34	18.14 ug/ml	1819146	1,4-Dichlorobenzene-d4	2005797

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	43.00
2	Hydroperoxide, 1-methylethyl	947	003031-75-2	36.00
3	2,3-Epoxybutane	677	003266-23-7	12.00
4	Acetone	214	000067-64-1	9.00
5	Nitric acid, nonyl ester	52650	020633-13-0	9.00



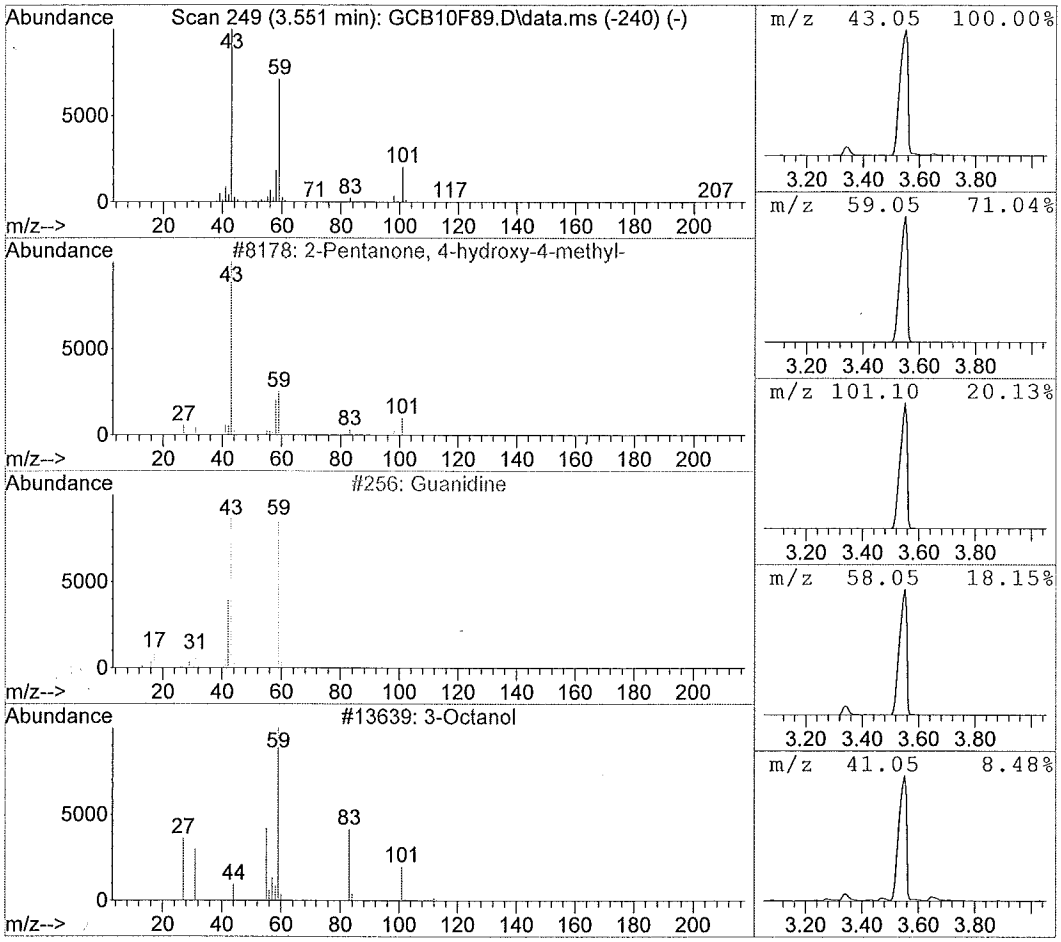
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB10F89.D Vial: 32
Acq On : 06/23/2015 22:03 Operator: TJM
Sample : 1515725009 F9M89 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.55	378.08 ug/ml	37918085	1,4-Dichlorobenzene-d4	2005797

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	64.00
2	Guanidine	256	000113-00-8	43.00
3	3-Octanol	13639	000589-98-0	33.00
4	2-Hexanol, 2-methyl-	8346	000625-23-0	33.00
5	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	17.00

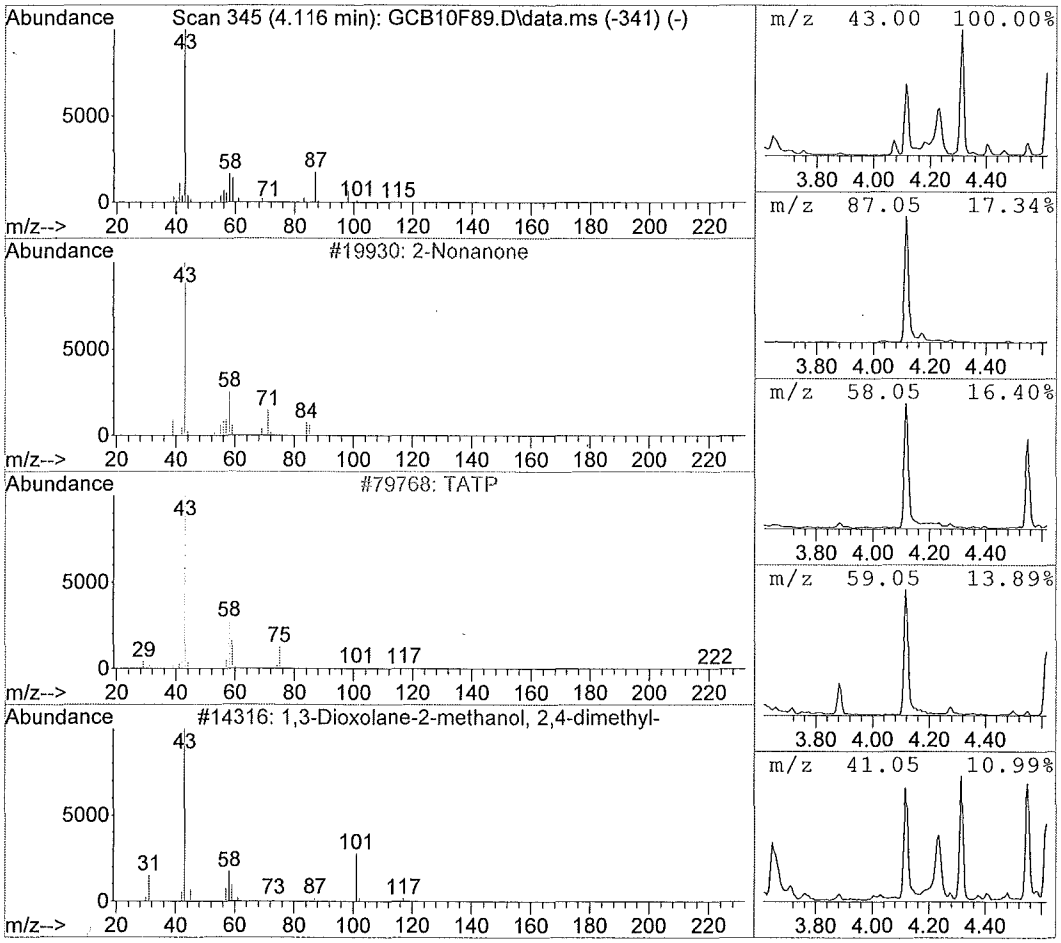


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB10F89.D Vial: 32
Acq On : 06/23/2015 22:03 Operator: TJM
Sample : 1515725009 F9M89 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.12	8.61 ug/ml	863737	1,4-Dichlorobenzene-d4	2005797

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Nonanone	19930	000821-55-6	50.00
2	TATP	79768	017088-37-8	40.00
3	1,3-Dioxolane-2-methanol, 2,4-dimet	14316	053951-43-2	33.00
4	Isopropyl acetate	4255	000108-21-4	25.00
5	.alpha.-Hydroxyisobutyric acid, ace	21841	1000374-31-3	25.00



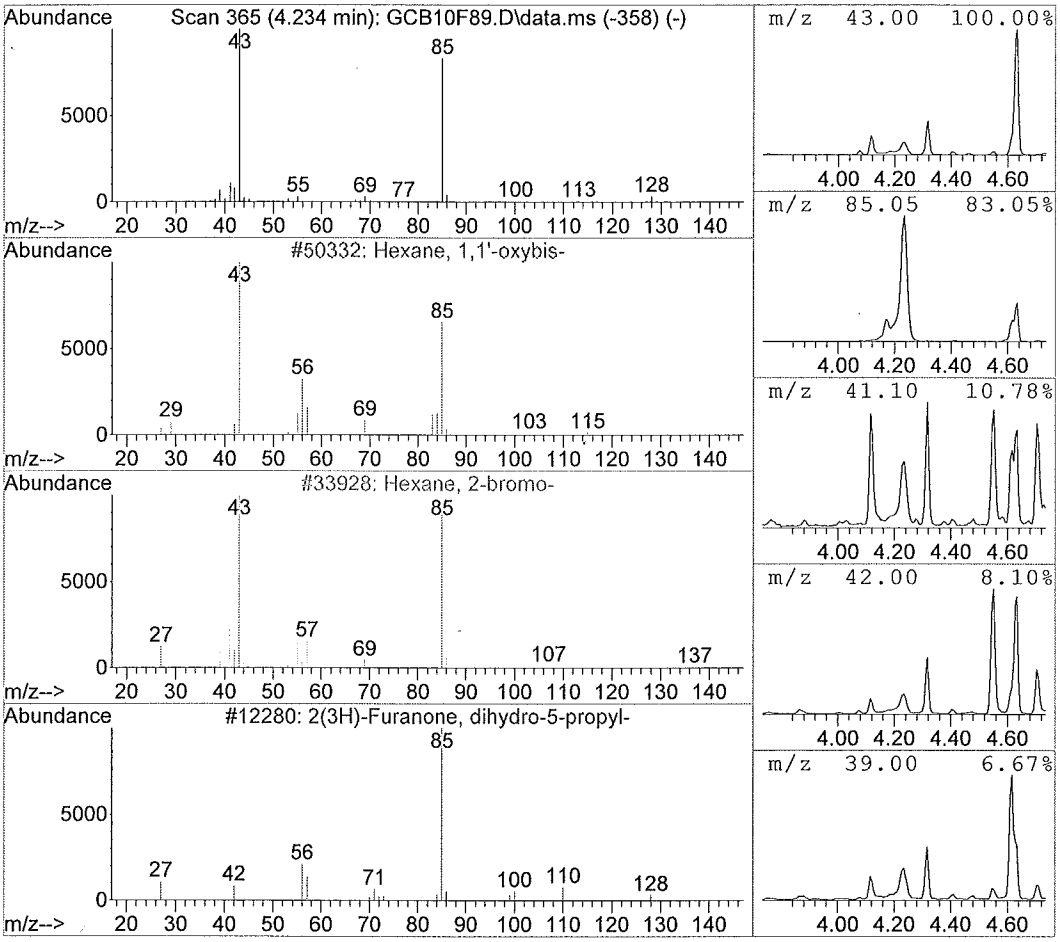
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB10F89.D Vial: 32
Acq On : 06/23/2015 22:03 Operator: TJM
Sample : 1515725009 F9M89 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.23	9.64 ug/ml	966417	1,4-Dichlorobenzene-d4	2005797

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 1,1'-oxybis-	50332	000112-58-3	64.00
2	Hexane, 2-bromo-	33928	003377-86-4	50.00
3	2(3H)-Furanone, dihydro-5-propyl-	12280	000105-21-5	42.00
4	4-Methoxy-3-buten-2-one	3689	004652-27-1	38.00
5	2-Pyrrolidinone	1541	000616-45-5	36.00

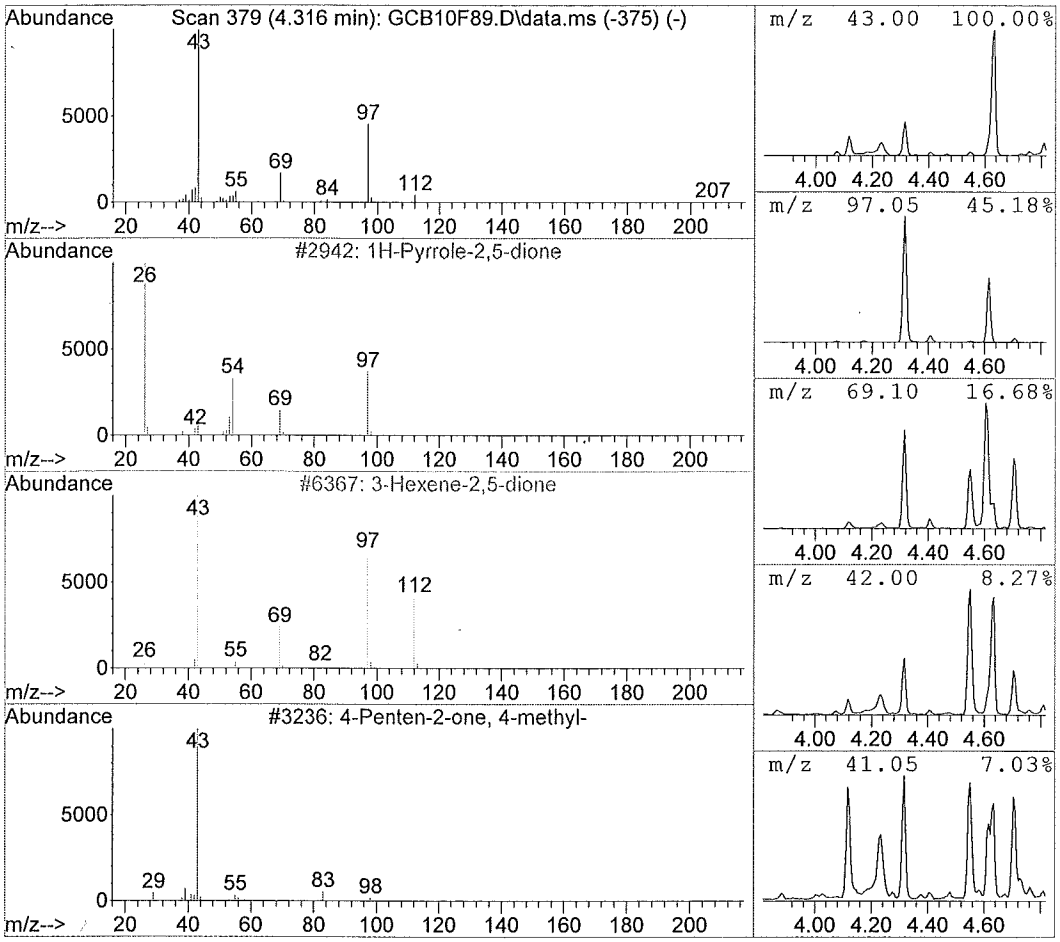


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB10F89.D Vial: 32
Acq On : 06/23/2015 22:03 Operator: TJM
Sample : 1515725009 F9M89 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.32	13.47 ug/ml	1350422	1,4-Dichlorobenzene-d4	2005797

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	50.00
2	3-Hexene-2,5-dione	6367	004436-75-3	39.00
3	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
4	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00
5	5-Hexen-2-one	3158	000109-49-9	9.00



Library Search Compound Report

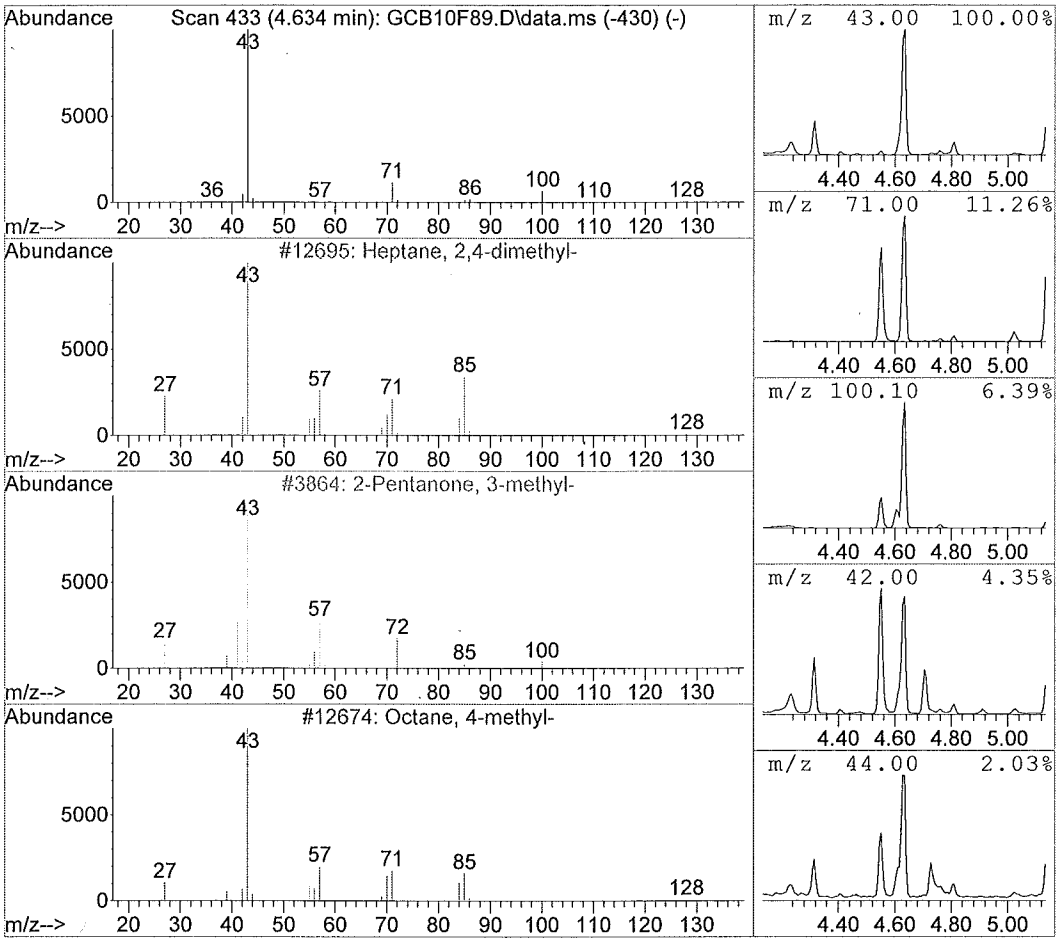
Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB10F89.D Vial: 32
Acq On : 06/23/2015 22:03 Operator: TJM
Sample : 1515725009 F9M89 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.63	35.47 ug/ml	3557706	1,4-Dichlorobenzene-d4	2005797

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,4-dimethyl-	12695	002213-23-2	5.00
2	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
3	Octane, 4-methyl-	12674	002216-34-4	5.00
4	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00
5	3-Hexanone	3776	000589-38-8	5.00

BA

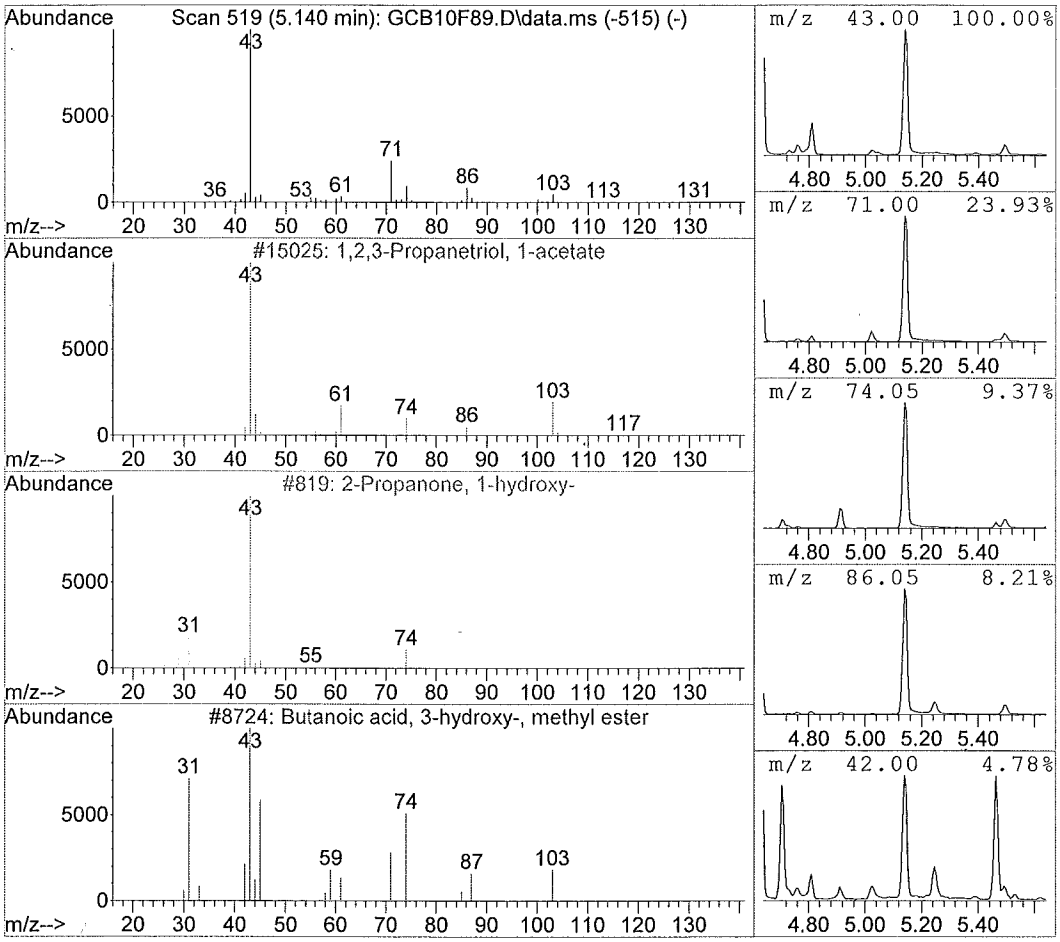


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB10F89.D Vial: 32
Acq On : 06/23/2015 22:03 Operator: TJM
Sample : 1515725009 F9M89 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.14	21.05 ug/ml	2111471	1,4-Dichlorobenzene-d4	2005797

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	32.00
2	2-Propanone, 1-hydroxy-	819	000116-09-6	27.00
3	Butanoic acid, 3-hydroxy-, methyl e	8724	001487-49-6	10.00
4	Diacetyl sulphide	8654	003232-39-1	10.00
5	Butanal, 2-ethyl-	3806	000097-96-1	9.00

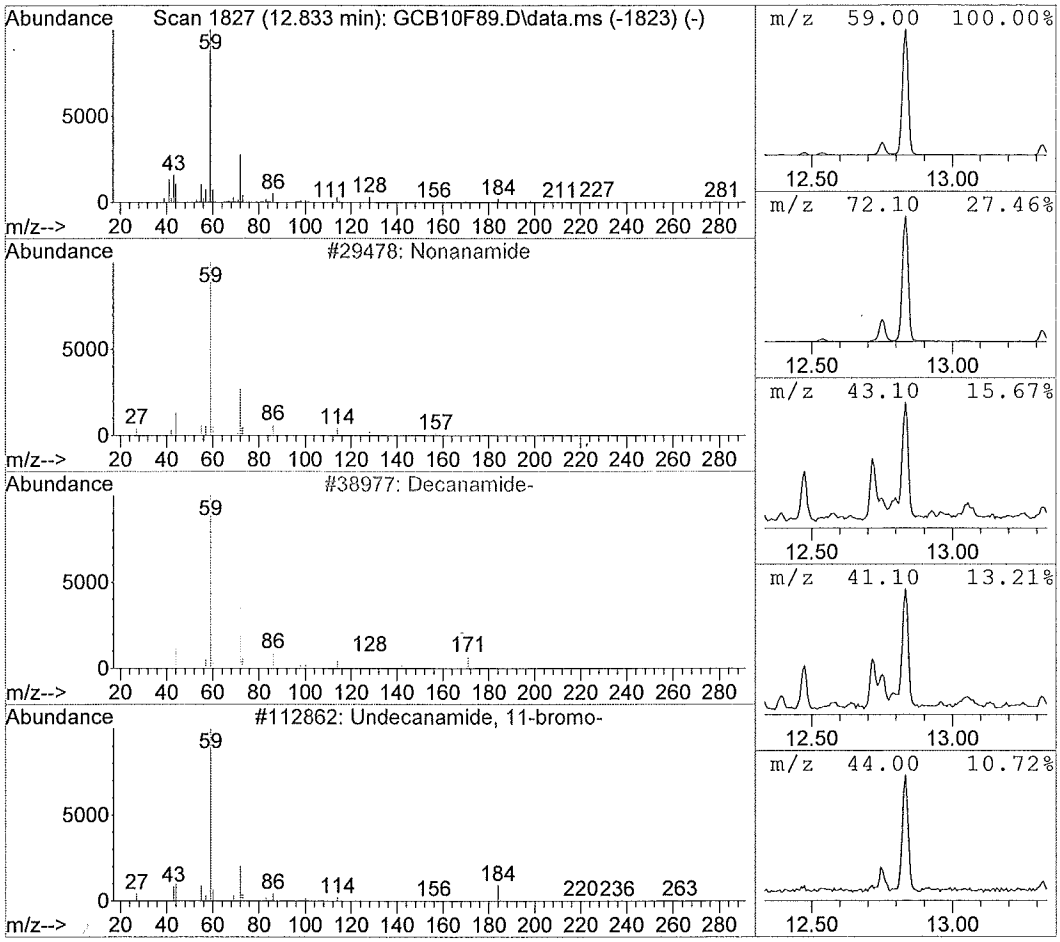


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB10F89.D Vial: 32
Acq On : 06/23/2015 22:03 Operator: TJM
Sample : 1515725009 F9M89 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.83	6.09 ug/ml	844462	Phenanthrene-d10	2774655

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonanamide	29478	001120-07-6	83.00
2	Decanamide-	38977	002319-29-1	74.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	72.00
4	Tetradecanamide	83608	000638-58-4	64.00
5	Dodecanamide	60439	001120-16-7	64.00

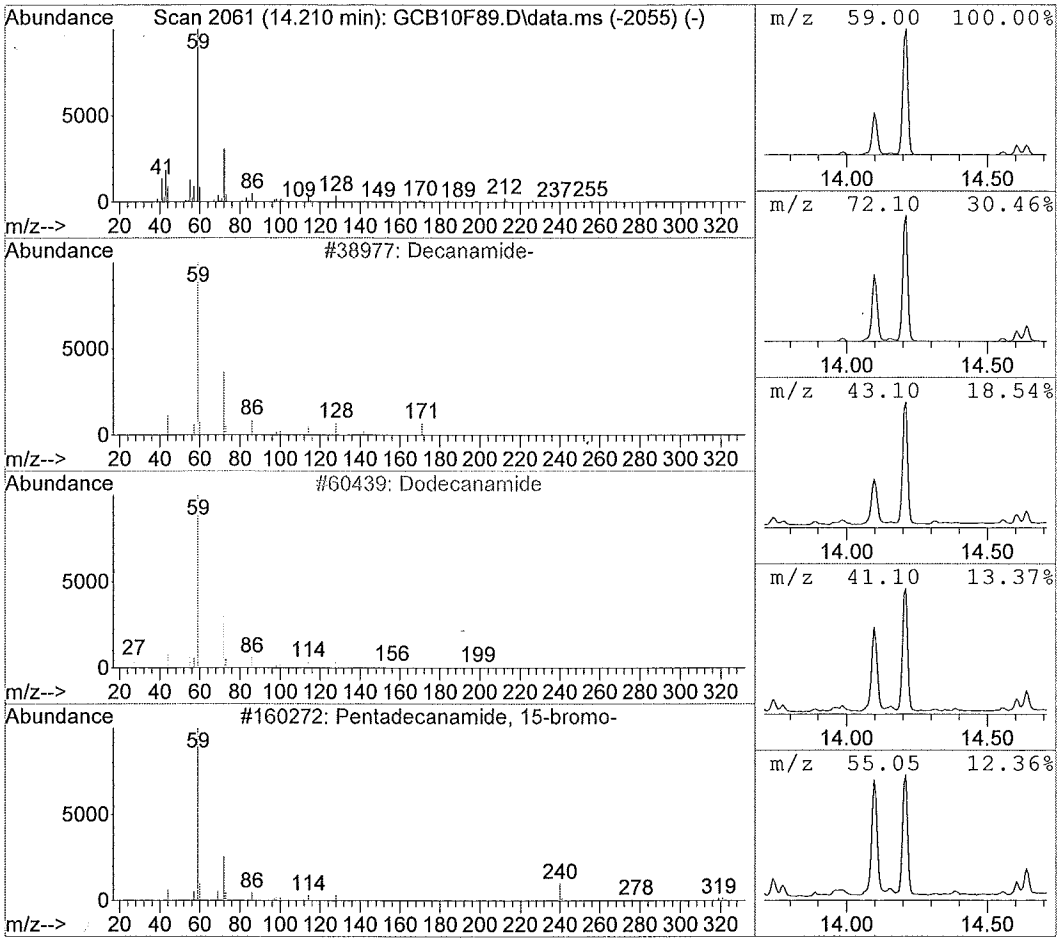


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB10F89.D Vial: 32
Acq On : 06/23/2015 22:03 Operator: TJM
Sample : 1515725009 F9M89 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.21	24.30 ug/ml	3128644	Chrysene-d12	2574836

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decanamide-	38977	002319-29-1	91.00
2	Dodecanamide	60439	001120-16-7	90.00
3	Pentadecanamide, 15-bromo-	160272	1000163-86-1	83.00
4	Tetradecanamide	83609	000638-58-4	83.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	78.00

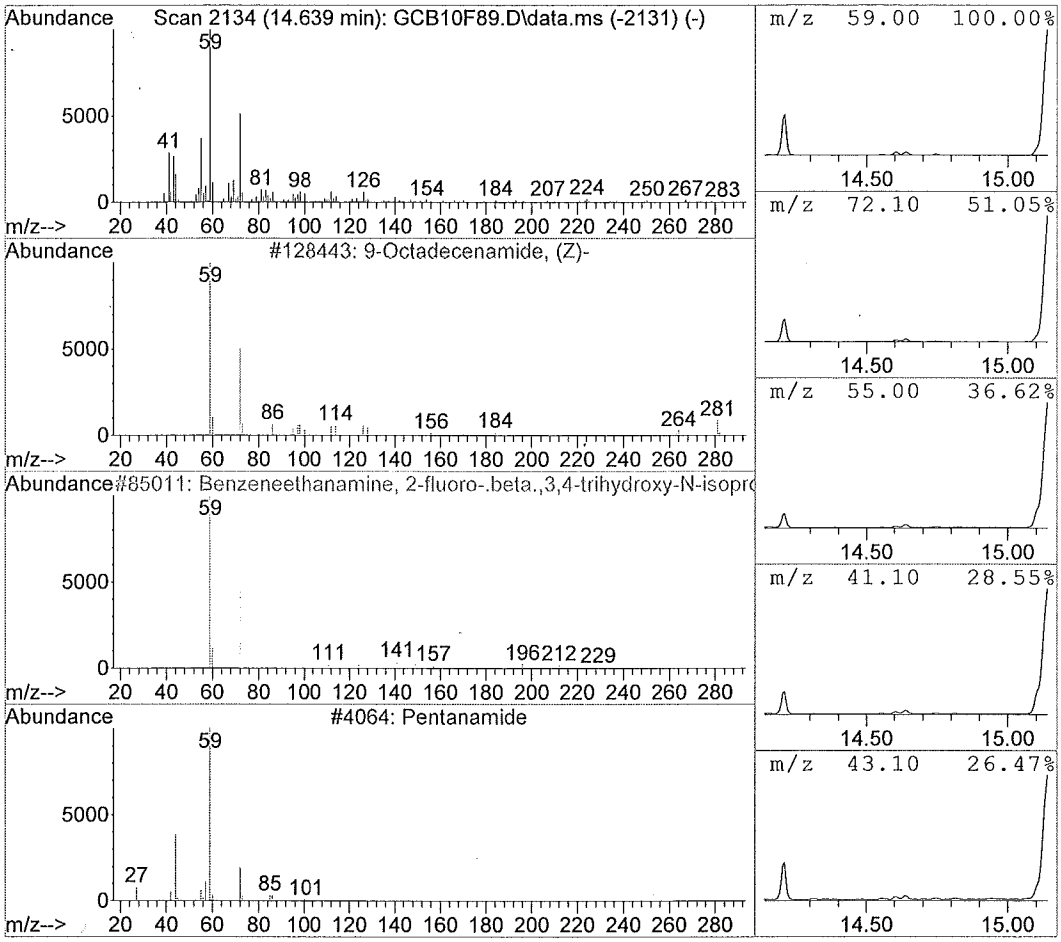


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB10F89.D Vial: 32
Acq On : 06/23/2015 22:03 Operator: TJM
Sample : 1515725009 F9M89 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.64	3.26 ug/ml	420270	Chrysene-d12	2574836

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	90.00
2	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	64.00
3	Pentanamide	4064	000626-97-1	64.00
4	Octanamide	20317	000629-01-6	59.00
5	Hexadecanamide	106564	000629-54-9	56.00



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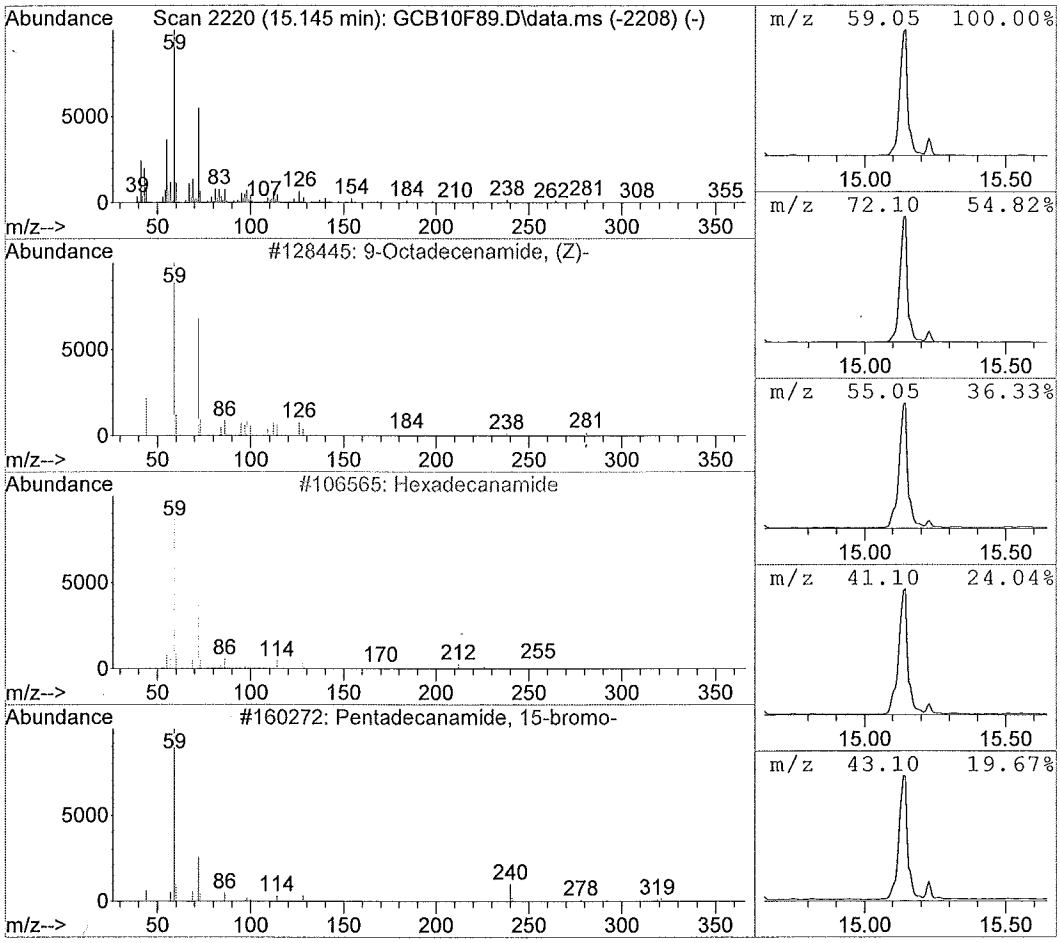
Acq On : 06/23/2015 22:03 Operator: TJM
Sample : 1515725009 F9M89 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.14	244.90 ug/ml	31528659	Chrysene-d12	2574836

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Hexadecanamide	106565	000629-54-9	72.00
3	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00
4	Dodecanamide	60439	001120-16-7	59.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	59.00



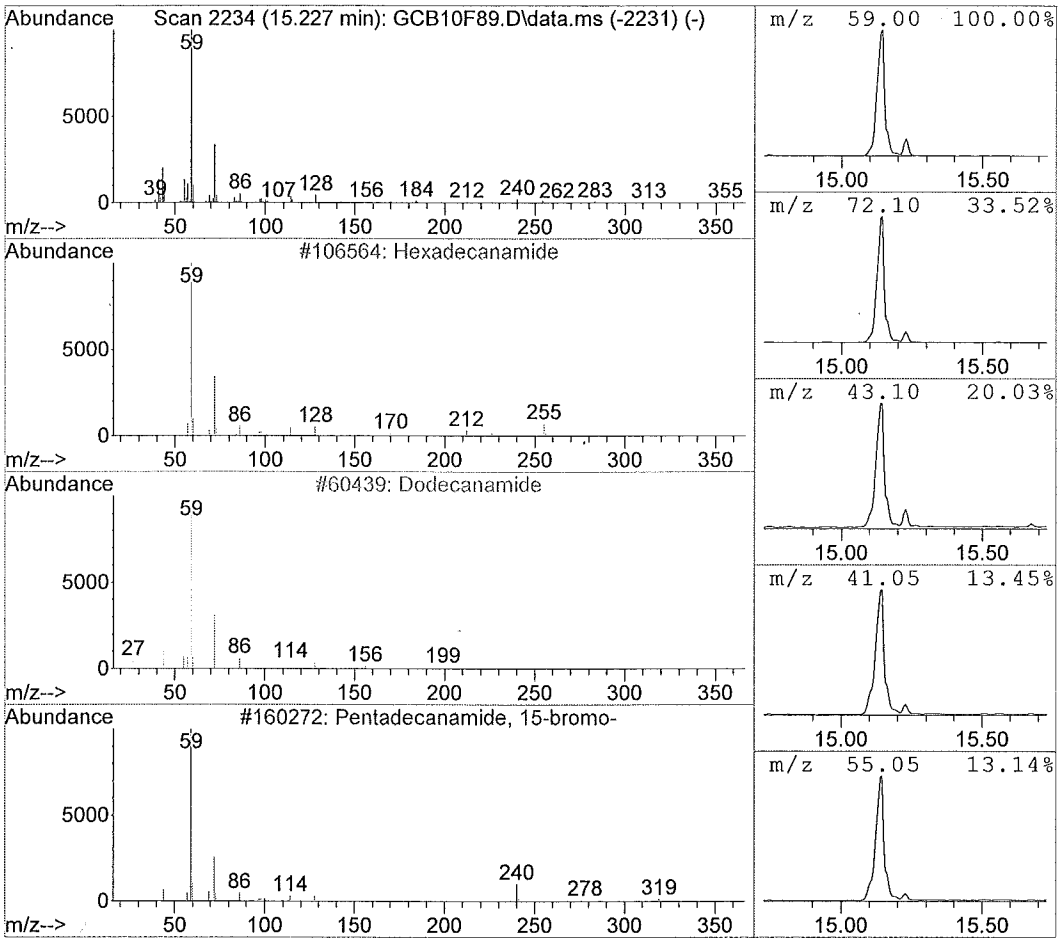
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB10F89.D Vial: 32
Acq On : 06/23/2015 22:03 Operator: TJM
Sample : 1515725009 F9M89 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.23	9.66 ug/ml	1243425	Chrysene-d12	2574836

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	90.00
2	Dodecanamide	60439	001120-16-7	78.00
3	Pentadecanamide, 15-bromo-	160272	1000163-86-1	78.00
4	Octanamide	20317	000629-01-6	64.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	64.00



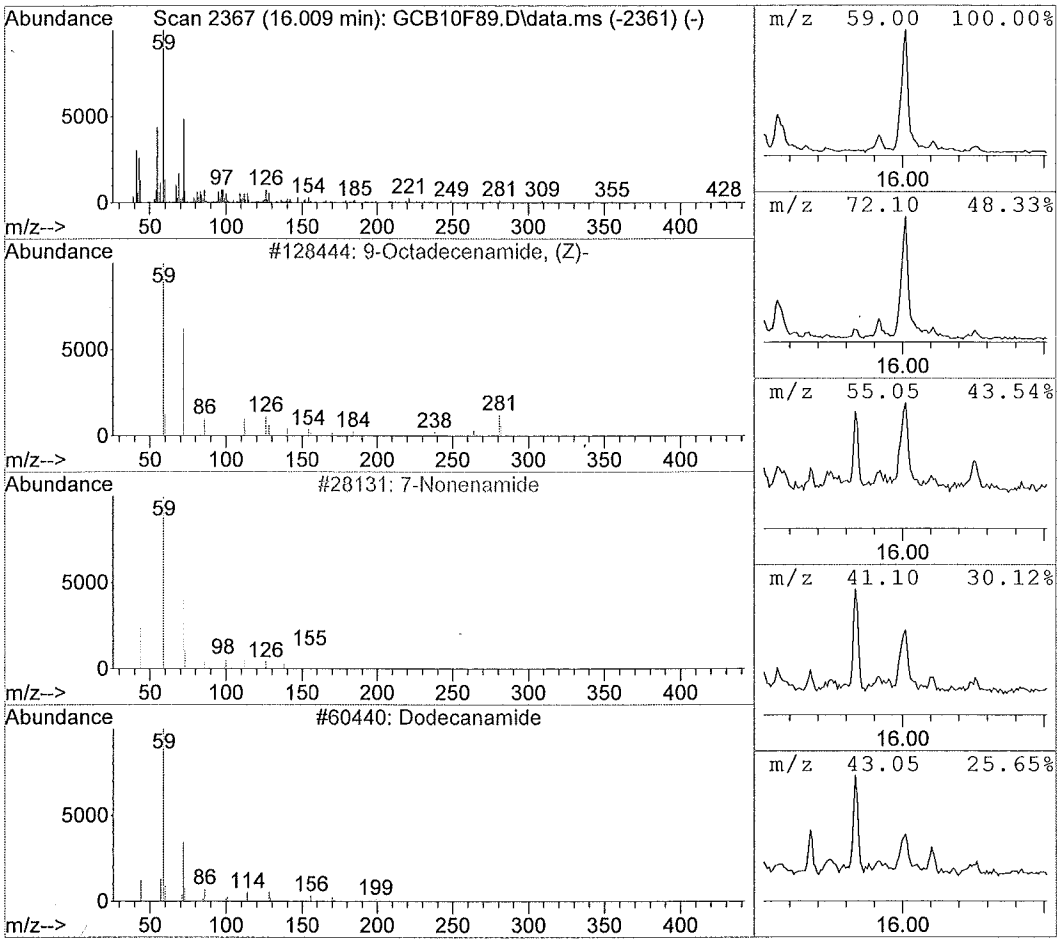
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB10F89.D Vial: 32
Acq On : 06/23/2015 22:03 Operator: TJM
Sample : 1515725009 F9M89 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.01	3.82 ug/ml	492087	Chrysene-d12	2574836

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128444	000301-02-0	91.00
2	7-Nonenamide	28131	090949-53-4	80.00
3	Dodecanamide	60440	001120-16-7	76.00
4	Tetradecanamide	83609	000638-58-4	72.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	64.00



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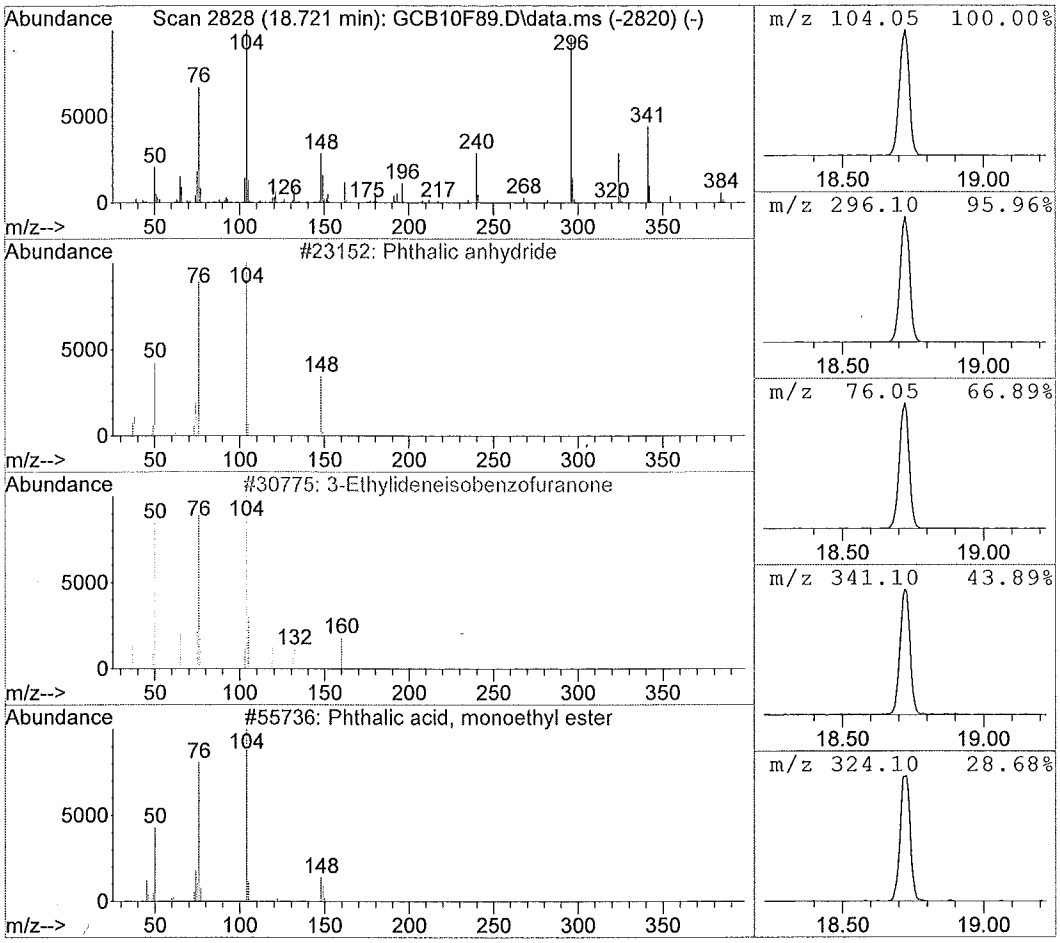
Acq On : 06/23/2015 22:03 Operator: TJM
Sample : 1515725009 F9M89 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.72	20.61 ug/ml	1432391	Perylene-d12	1389962

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23152	000085-44-9	27.00
2	3-Ethylideneisobenzofuranone	30775	004767-63-9	22.00
3	Phthalic acid, monoethyl ester	55736	002306-33-4	16.00
4	Bithiophthalide	140931	032819-84-4	12.00
5	Benzenemethanamine, 2-methyl-	9643	000089-93-0	11.00



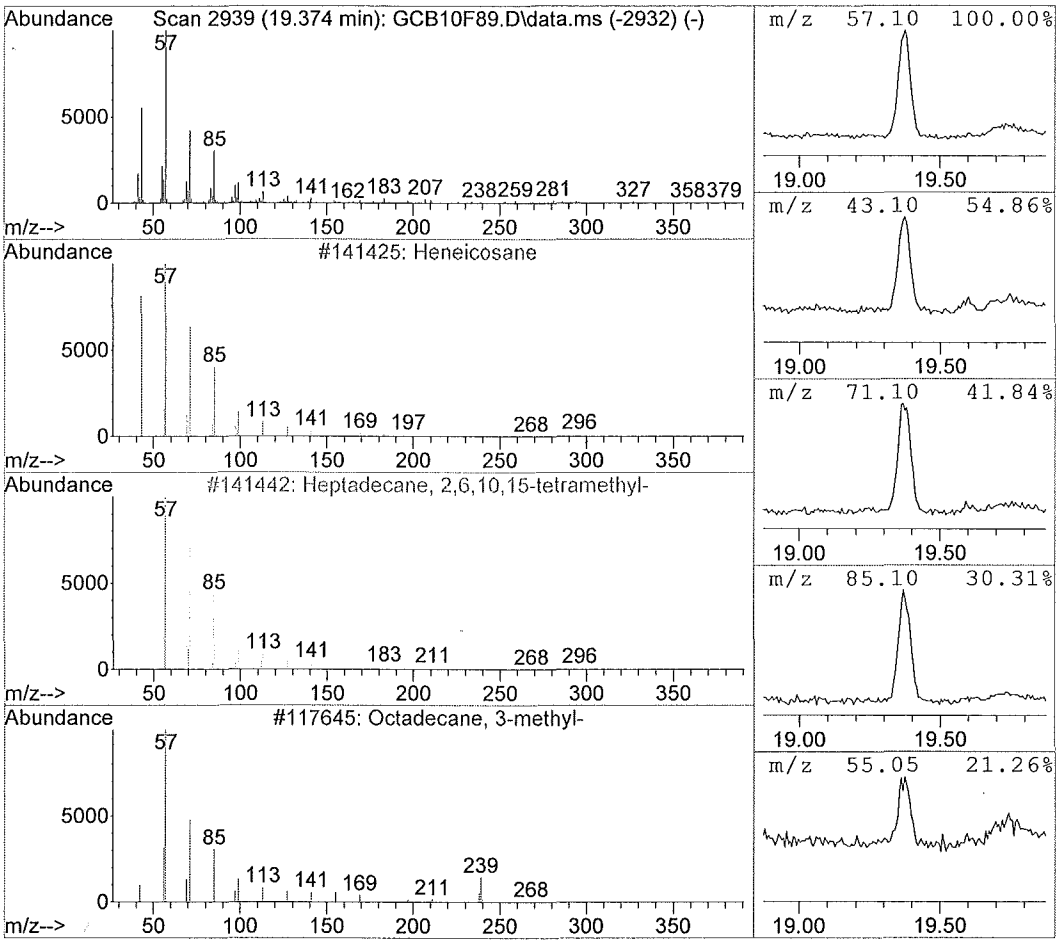
Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB10F89.D Vial: 32
Acq On : 06/23/2015 22:03 Operator: TJM
Sample : 1515725009 F9M89 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.37	6.42 ug/ml	446064	Perylene-d12	1389962

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heneicosane	141425	000629-94-7	96.00
2	Heptadecane, 2,6,10,15-tetramethyl-	141442	054833-48-6	89.00
3	Octadecane, 3-methyl-	117645	006561-44-0	87.00
4	Sulfurous acid, butyl dodecyl ester	149369	1000309-17-9	86.00
5	Sulfurous acid, butyl tetradecyl es	172308	1000309-18-1	86.00

SA

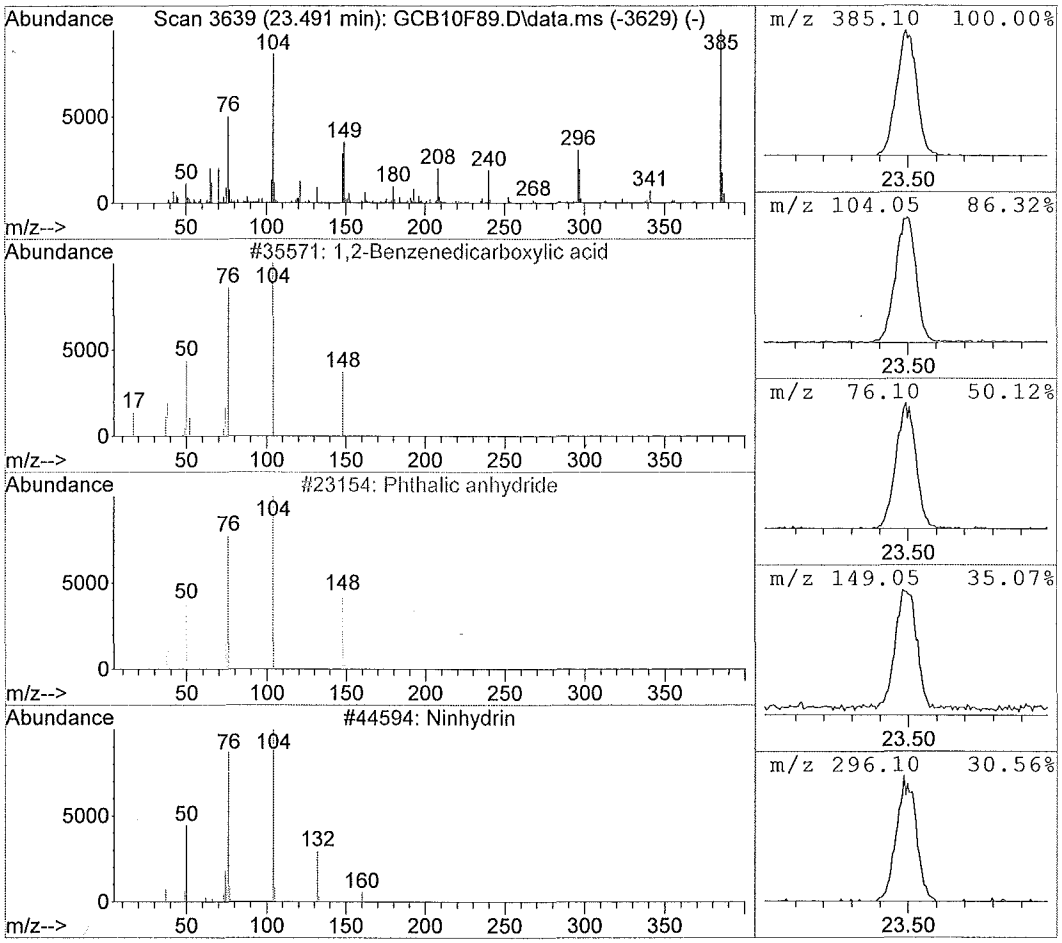


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB10F89.D Vial: 32
Acq On : 06/23/2015 22:03 Operator: TJM
Sample : 1515725009 F9M89 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.49	16.46 ug/ml	1144092	Perylene-d12	1389962

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Benzenedicarboxylic acid	35571	000088-99-3	35.00
2	Phthalic anhydride	23154	000085-44-9	35.00
3	Ninhydrin	44594	000485-47-2	22.00
4	[2.2]Paracyclophane	67983	001633-22-3	18.00
5	Naphthalene, 1,2,3,4-tetrahydro-2-p	68010	029422-13-7	18.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M90

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725010

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCB11F90

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/23/2015

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	360	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	360	U
83-32-9	Acenaphthene	190	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M90

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725010

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCB11F90

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/23/2015

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	360	U
100-02-7	4-Nitrophenol	360	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	360	U
534-52-1	4,6-Dinitro-2-methylphenol	360	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	130	J
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M90

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725010
Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCB11F90
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 10. Decanted: (Y/N) N Date Received: 06/05/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/23/2015
GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Propanone, 1-hydroxy-	2.17	190	J
02	814-78-8	3-Buten-2-one, 3-methyl-	2.22	230	JN
03		Unknown 2-Propanone, 1-chloro-	2.30	200	J
04		Unknown 1,2-Ethanediol	2.37	190	J
05		Unknown 2-Pyrrolidinone	2.84	200	J
06		Unknown 2-Pentanone, 4-hydroxy-	3.35	940	JB
07		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.56	18000	JB
08		Unknown Propane, 1-(1-methylethoxy)-	4.12	460	J
09		Unknown 2(3H)-Furanone, 5-acetyldihydro-	4.23	750	J
10		Unknown 1H-Pyrrole-2,5-dione	4.32	700	J
11		Unknown 2-Pentanone, 3-methyl-	4.63	1800	J
12		Unknown Ethanone, 1-oxiranyl-	5.15	1800	J
13		Unknown Undecanamide, 11-bromo-	12.83	170	J
14	2319-29-1	Decanamide-	14.21	660	JN
15	301-02-0	9-Octadecenamide, (Z)-	15.13	4800	JNB
16	629-54-9	Hexadecanamide	15.23	260	JNB
17		Unknown Tetradecanamide	15.92	160	JB
18		Unknown 6,7-Dioxabicyclo[3.2.2]nonane	16.26	240	J
19	1000151-80-3	Cobalt, (1,5-cyclooctadiene)(.eta.-5-1-methylind	18.72	620	JN
20		Unknown Phthalic anhydride	23.50	680	J
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	760	J

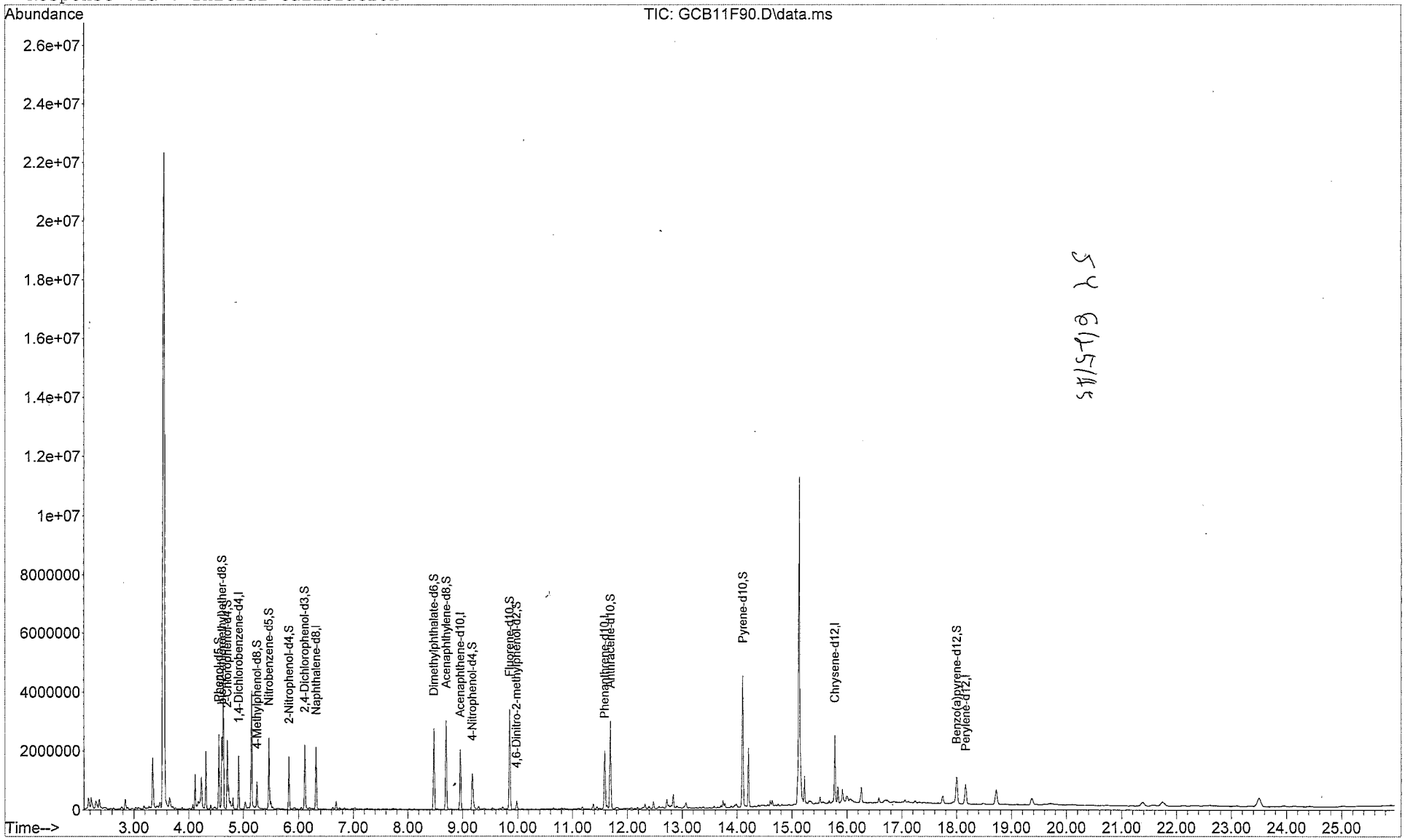
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB11F90.D Vial: 33
Acq On : 06/23/2015 22:36 Operator: TJM
Sample : 1515725010 F9M90 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 24 13:37:51 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB11F90.D Vial: 33
Acq On : 06/23/2015 22:36 Operator: TJM
Sample : 1515725010 F9M90 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 24 13:37:51 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.92	152	276813	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1103556	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	637049	20.00 ug/ml
59) Phenanthrene-d10	11.59	188	1085820	20.00 ug/ml
73) Chrysene-d12	15.78	240	952555	20.00 ug/ml
81) Perylene-d12	18.16	264	473711	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.55	99	780613	32.406ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	566189	30.161ug/mL
7) 2-Chlorophenol-d4	4.71	132	637259	31.332ug/ml
13) 4-Methylphenol-d8	5.25	113	195092	12.108ug/mL
17) Nitrobenzene-d5	5.46	128	307217	31.690ug/ml
21) 2-Nitrophenol-d4	5.83	143	313918	30.635ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	484315	30.353ug/mL
28) 4-Chloroaniline-d4	6.40	131	5975	0.343ug/mL
42) Dimethylphthalate-d6	8.47	166	1495939	37.448ug/mL
45) Acenaphthylene-d8	8.70	160	1793034	33.029ug/mL
50) 4-Nitrophenol-d4	9.18	143	305304	37.463ug/mL
57) Fluorene-d10	9.86	176	1252835	36.724ug/mL
61) 4,6-Dinitro-2-methylphenol	9.99	200	49015	6.360ug/mL
69) Anthracene-d10	11.69	188	1772888	30.789ug/mL
75) Pyrene-d10	14.10	212	1789439	37.643ug/mL
86) Benzo(a)pyrene-d12	18.00	264	633966	27.929ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

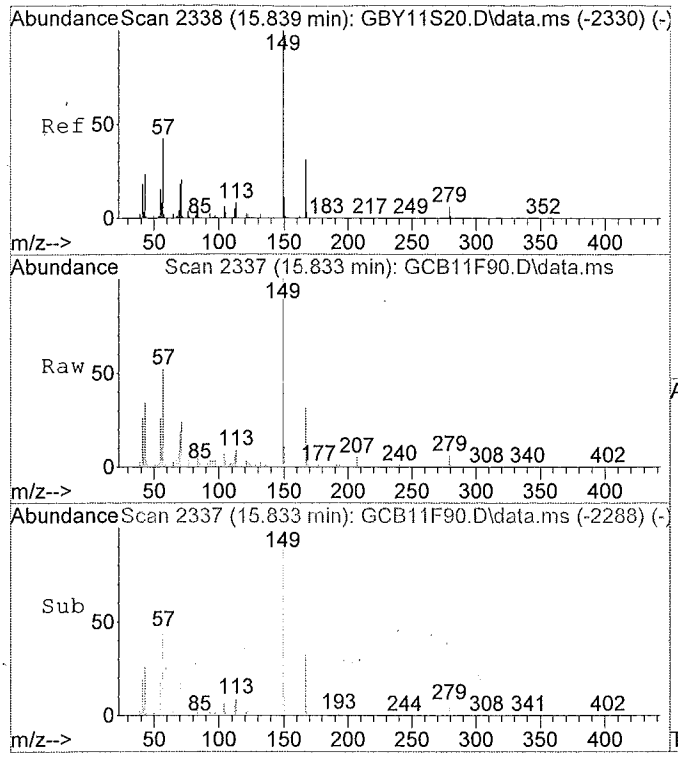
Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB11F90.D Vial: 33
Acq On : 06/23/2015 22:36 Operator: TJM
Sample : 1515725010 F9M90 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 24 13:37:51 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	0.00	152		Not Detected	
46)	3-Nitroaniline	0.00	138		Not Detected	
47)	Acenaphthene	0.00	153		Not Detected	
48)	2,4-Dinitrophenol	0.00	184		Not Detected	
49)	4-Nitrophenol	0.00	109		Not Detected	
51)	Dibenzofuran	0.00	168		Not Detected	
52)	2,4-Dinitrotoluene	0.00	165		Not Detected	
53)	2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54)	Diethylphthalate	0.00	149		Not Detected	
55)	4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56)	Fluorene	0.00	166		Not Detected	
58)	4-Nitroaniline	0.00	138		Not Detected	
60)	4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62)	N-Nitrosodiphenylamine	0.00	169		Not Detected	
63)	4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64)	Hexachlorobenzene	0.00	284		Not Detected	
65)	Atrazine	0.00	200		Not Detected	
66)	Pentachlorophenol	0.00	266		Not Detected	
67)	Phenanthrene	0.00	178		Not Detected	
68)	Anthracene	0.00	178		Not Detected	
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	0.00	202		Not Detected	
74)	Pyrene	0.00	202		Not Detected	
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	0.00	228		Not Detected	
79)	Chrysene	0.00	228		Not Detected	
80)	Bis-(2-ethylhexyl)phthalat	15.83	149	171916	3.650ug/ml	99
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	0.00	252		Not Detected	
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	0.00	252		Not Detected	
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

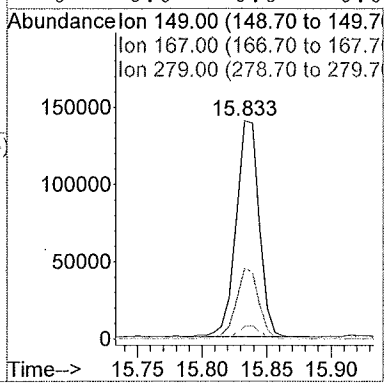
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#80
Bis-(2-ethylhexyl)phthalate
Concen: 3.65 ug/ml
RT: 15.83 min Scan# 2337
Delta R.T. -0.01 min
Lab File: GCB11F90.D
Acq: 06/23/2015 22:36

Tgt Ion:149 Resp: 171916

Ion	Ratio	Lower	Upper
149	100		
167	31.5	22.0	40.8
279	6.0	5.0	9.2
0	0.0	0.0	0.0



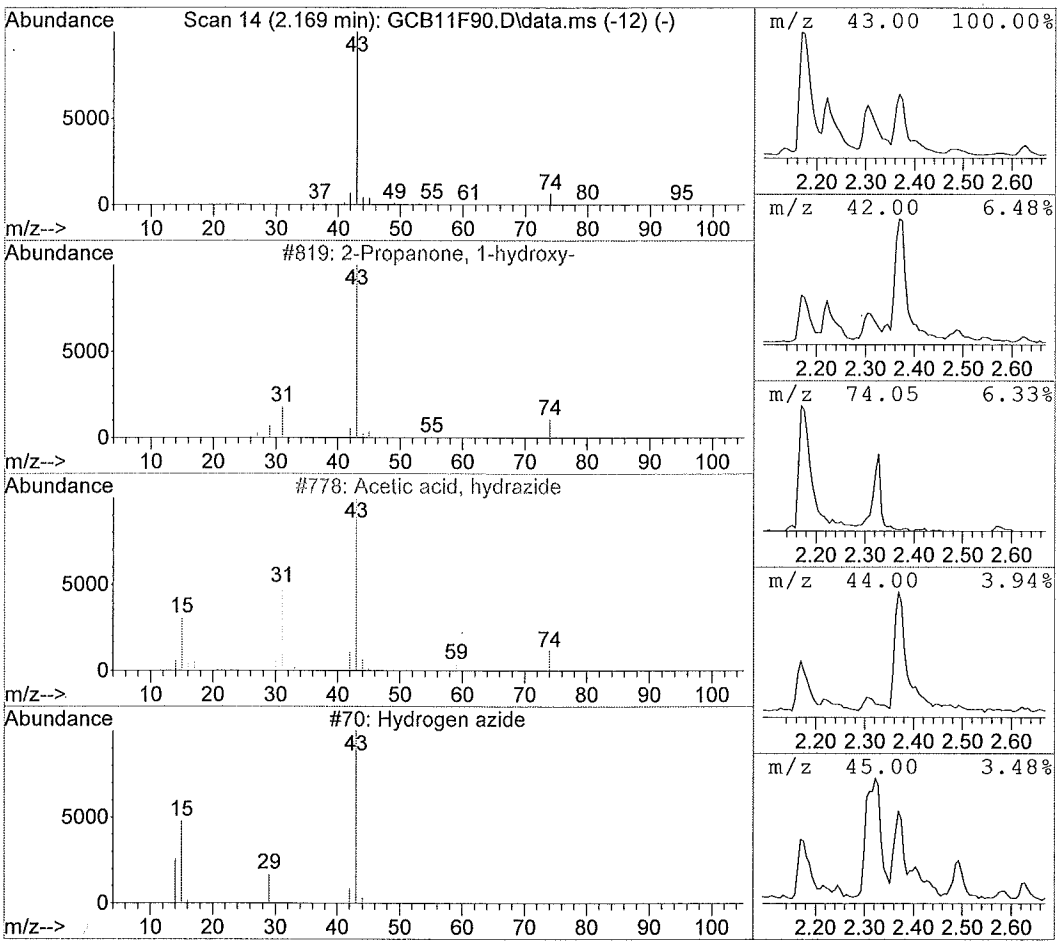
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB11F90.D Vial: 33
Acq On : 06/23/2015 22:36 Operator: TJM
Sample : 1515725010 F9M90 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.17	5.20 ug/ml	486217	1,4-Dichlorobenzene-d4	1871822

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-hydroxy-	819	000116-09-6	9.00
2	Acetic acid, hydrazide	778	001068-57-1	4.00
3	Hydrogen azide	70	007782-79-8	4.00
4	Ethylamine	85	000075-04-7	4.00
5	O-Methylisourea	774	002440-60-0	3.00

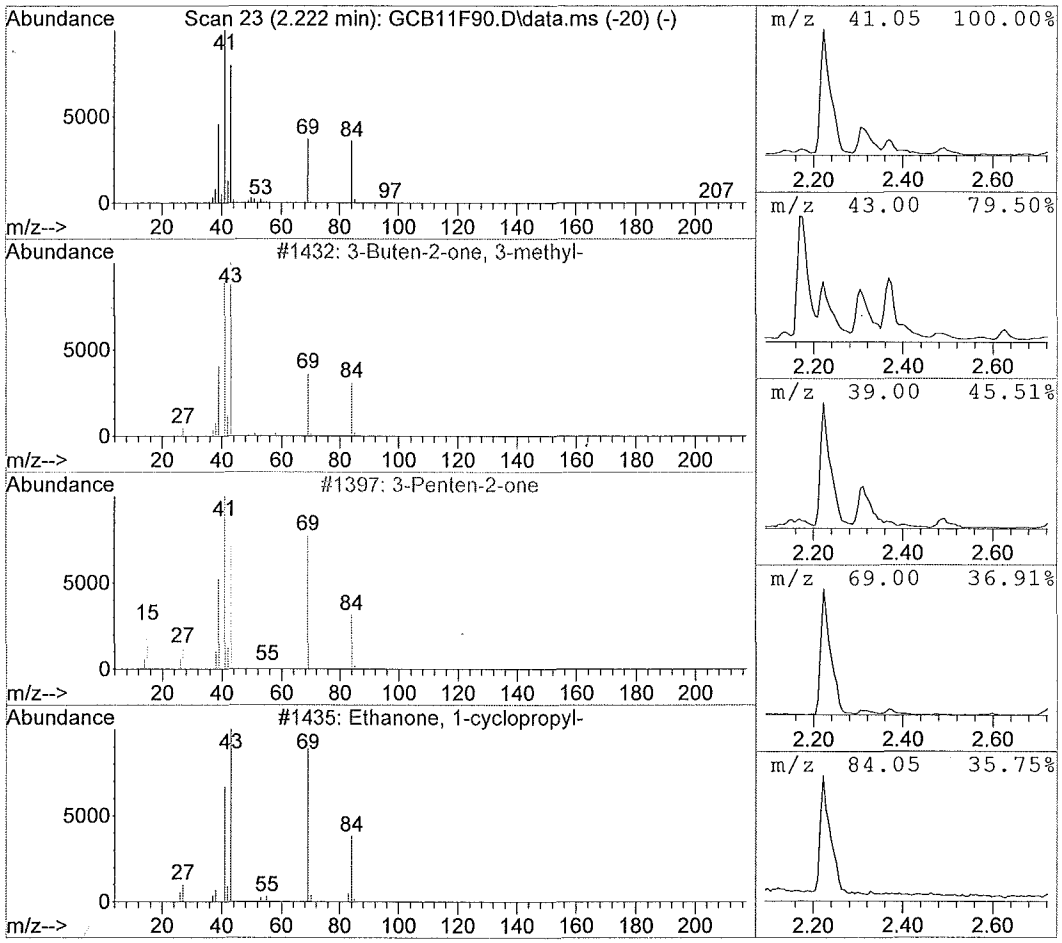


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB11F90.D Vial: 33
Acq On : 06/23/2015 22:36 Operator: TJM
Sample : 1515725010 F9M90 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.22	6.26 ug/ml	586030	1,4-Dichlorobenzene-d4	1871822

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Buten-2-one, 3-methyl-	1432	000814-78-8	91.00
2	3-Penten-2-one	1397	000625-33-2	56.00
3	Ethanone, 1-cyclopropyl-	1435	000765-43-5	43.00
4	2-Pentene, 4-methyl-, (Z)-	1507	000691-38-3	35.00
5	2-Butenal, (E)-	532	000123-73-9	33.00

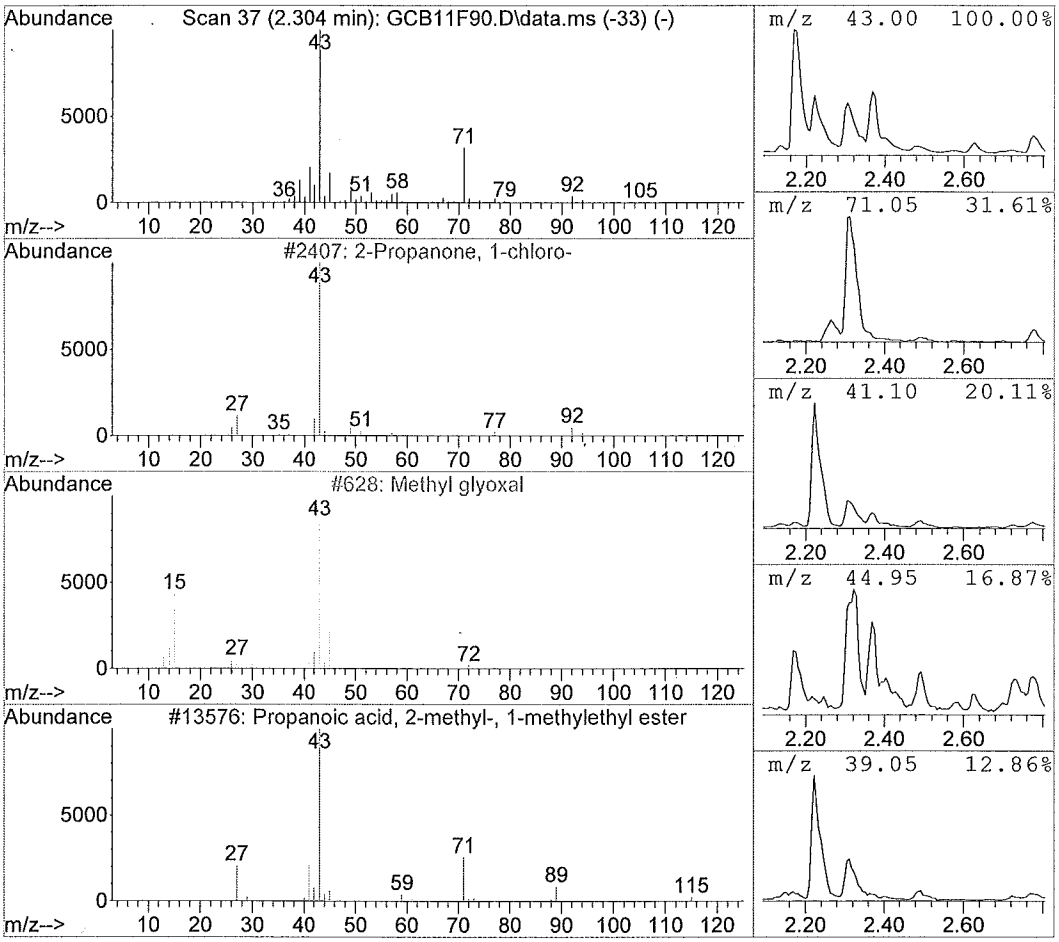


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB11F90.D Vial: 33
Acq On : 06/23/2015 22:36 Operator: TJM
Sample : 1515725010 F9M90 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.30	5.42 ug/ml	507165	1,4-Dichlorobenzene-d4	1871822

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-chloro-	2407	000078-95-5	46.00
2	Methyl glyoxal	628	000078-98-8	43.00
3	Propanoic acid, 2-methyl-, 1-methyl	13576	000617-50-5	36.00
4	Propanoyl chloride, 2-methyl-	5011	000079-30-1	28.00
5	Pentane, 2-nitro-	8487	004609-89-6	28.00

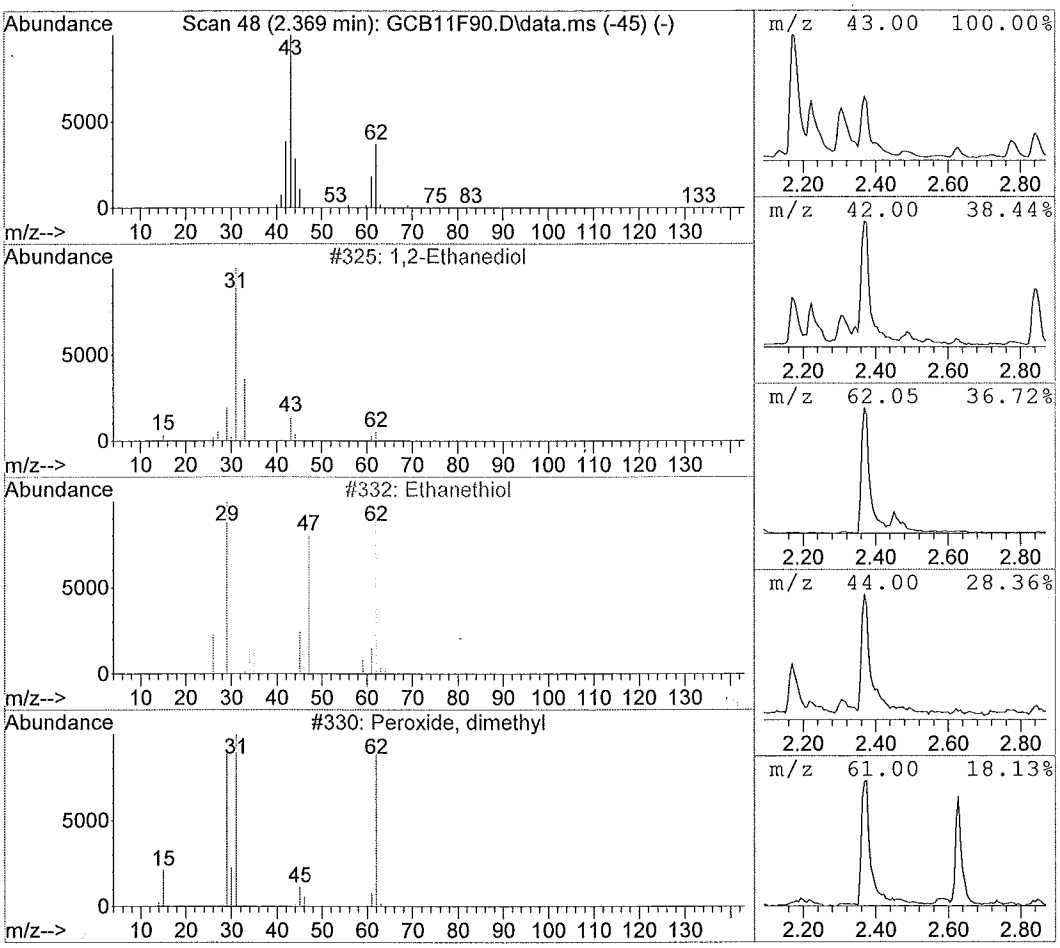


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB11F90.D Vial: 33
Acq On : 06/23/2015 22:36 Operator: TJM
Sample : 1515725010 F9M90 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.37	5.11 ug/ml	478203	1,4-Dichlorobenzene-d4	1871822

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Ethanediol	325	000107-21-1	42.00
2	Ethanethiol	332	000075-08-1	7.00
3	Peroxide, dimethyl	330	000690-02-8	4.00
4	Acetic acid, anhydride with formic	1955	002258-42-6	4.00
5	Methane, diazo-	64	000334-88-3	3.00

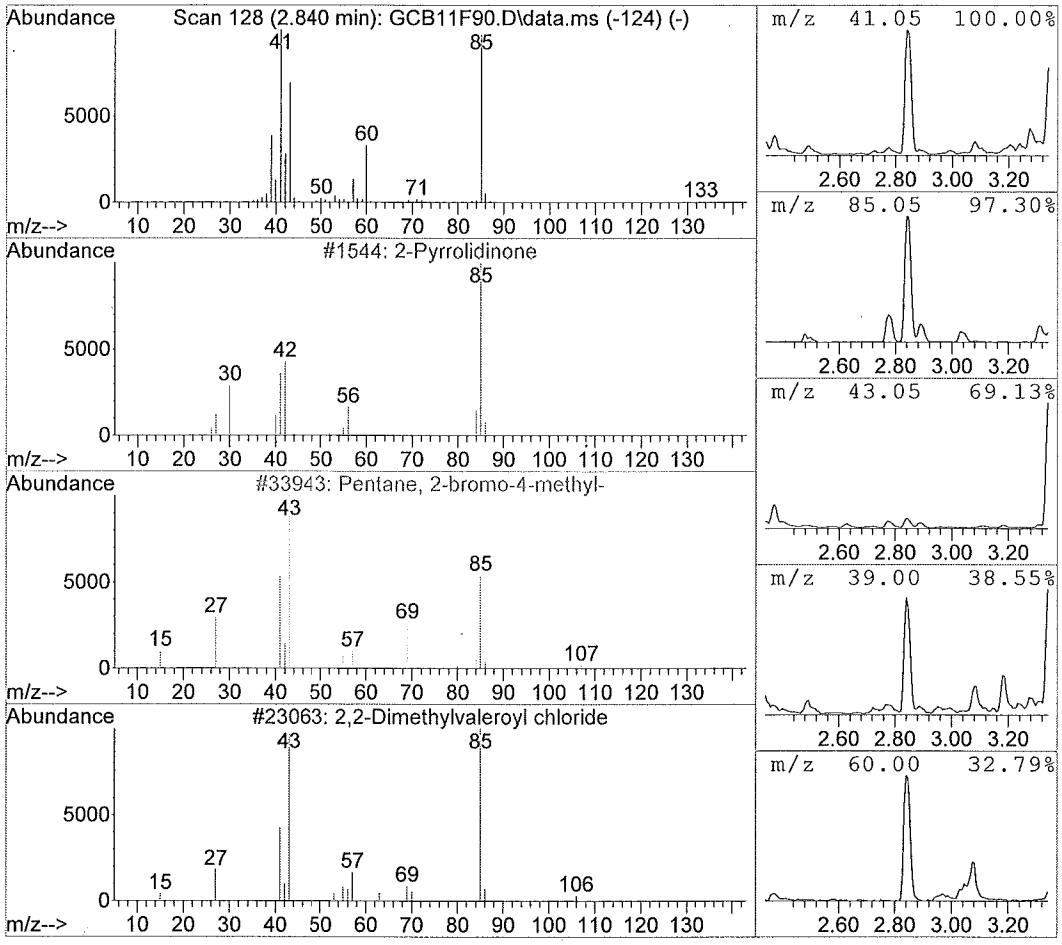


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB11F90.D Vial: 33
Acq On : 06/23/2015 22:36 Operator: TJM
Sample : 1515725010 F9M90 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.84	5.36 ug/ml	501795	1,4-Dichlorobenzene-d4	1871822

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pyrrolidinone	1544	000616-45-5	37.00
2	Pentane, 2-bromo-4-methyl-	33943	030310-22-6	33.00
3	2,2-Dimethylvaleroyl chloride	23063	015721-22-9	23.00
4	2H-Pyran-2-one, tetrahydro-6,6-dime	12312	002610-95-9	10.00
5	Methacrylamide	1540	000079-39-0	9.00

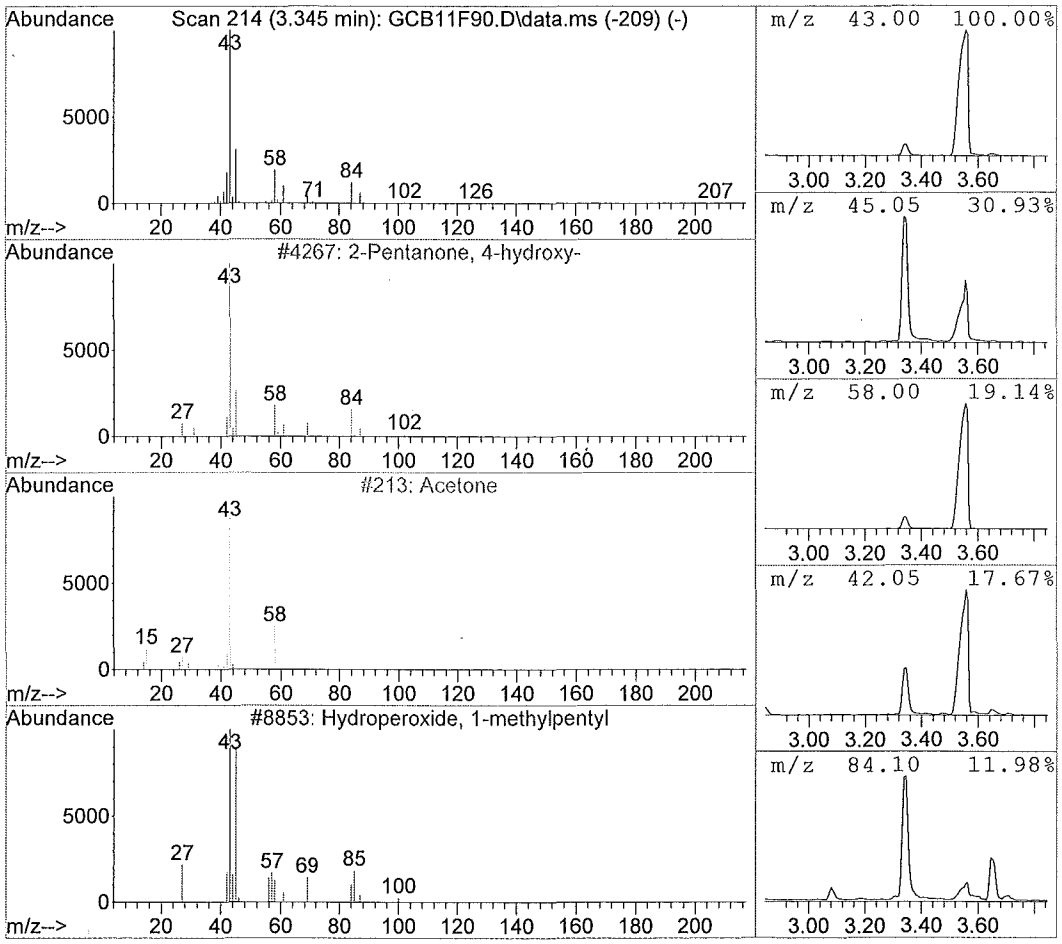


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB11F90.D Vial: 33
Acq On : 06/23/2015 22:36 Operator: TJM
Sample : 1515725010 F9M90 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.35	25.50 ug/ml	2386795	1,4-Dichlorobenzene-d4	1871822

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	64.00
2	Acetone	213	000067-64-1	9.00
3	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	9.00
4	Acetic acid, hexyl ester	20871	000142-92-7	9.00
5	Hydroperoxide, 1-methylethyl	947	003031-75-2	9.00

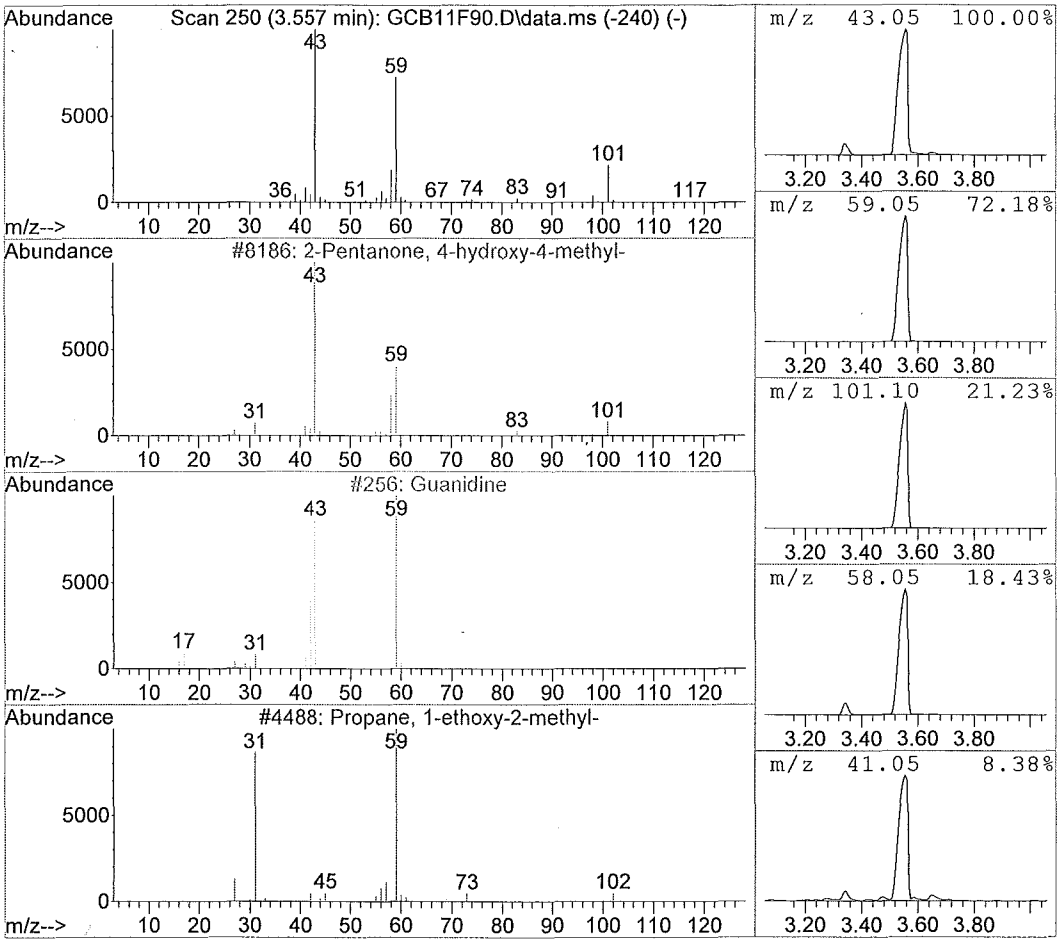


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB11F90.D Vial: 33
Acq On : 06/23/2015 22:36 Operator: TJM
Sample : 1515725010 F9M90 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.56	494.75 ug/ml	46304090	1,4-Dichlorobenzene-d4	1871822

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
2	Guanidine	256	000113-00-8	43.00
3	Propane, 1-ethoxy-2-methyl-	4488	000627-02-1	25.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	17.00
5	2,3-Butanedione, monooxime	4030	000057-71-6	9.00



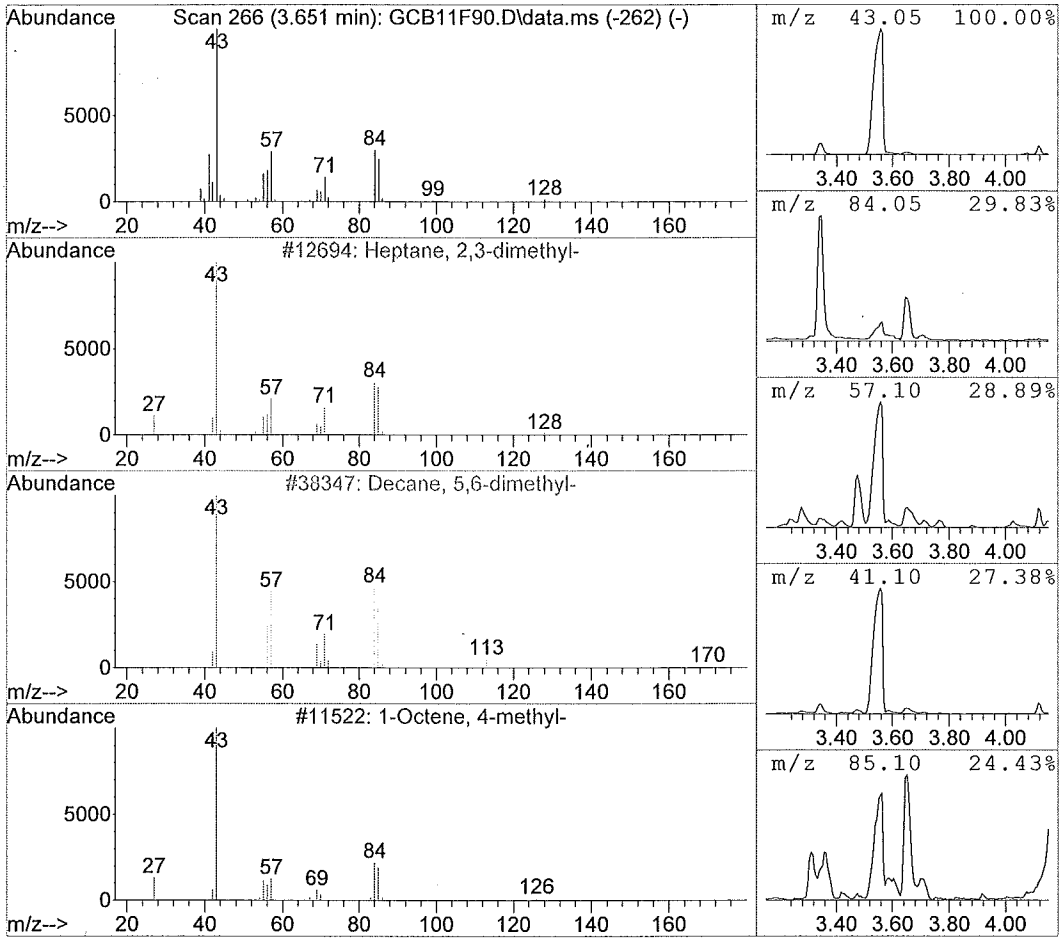
Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB11F90.D Vial: 33
Acq On : 06/23/2015 22:36 Operator: TJM
Sample : 1515725010 F9M90 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.65	5.54 ug/ml	518132	1,4-Dichlorobenzene-d4	1871822

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12694	003074-71-3	91.00
2	Decane, 5,6-dimethyl-	38347	001636-43-7	72.00
3	1-Octene, 4-methyl-	11522	013151-12-7	72.00
4	Hexane, 2,3,5-trimethyl-	12708	001069-53-0	58.00
5	Hexane, 3-ethyl-2-methyl-	12730	016789-46-1	56.00

BA

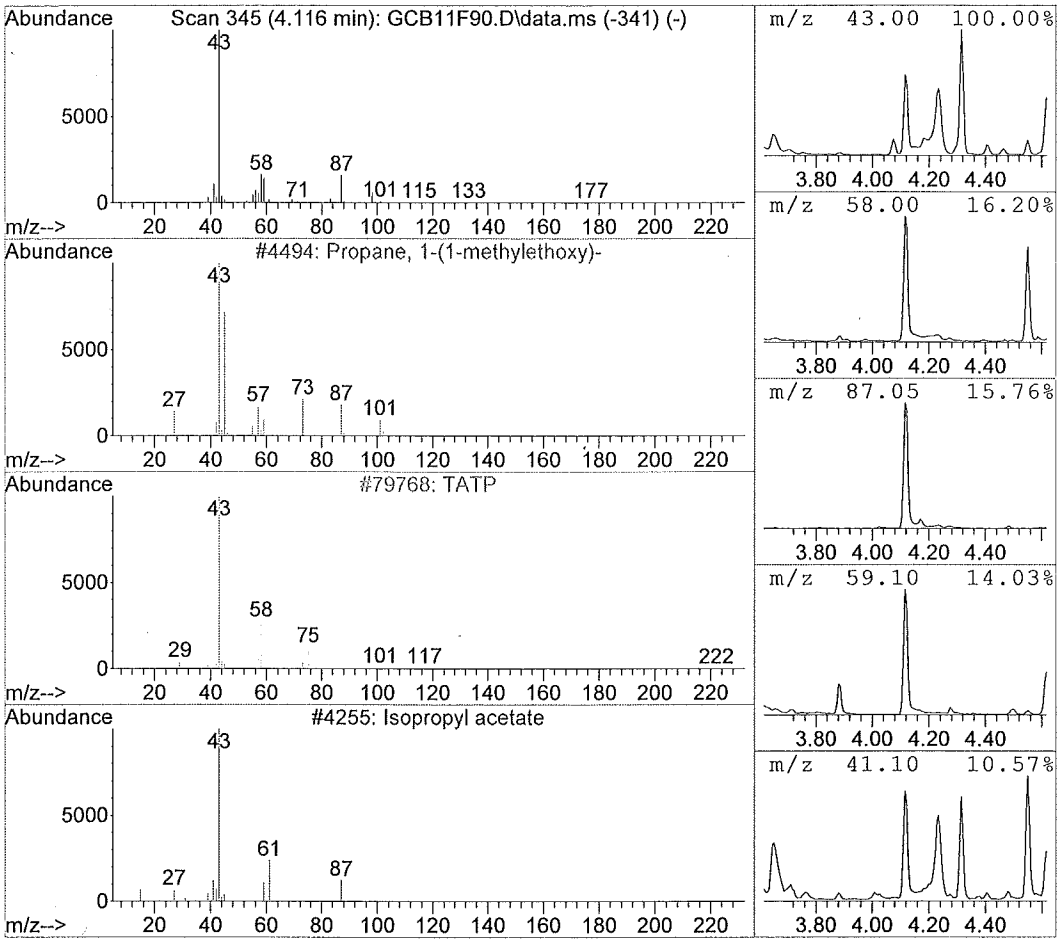


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB11F90.D Vial: 33
Acq On : 06/23/2015 22:36 Operator: TJM
Sample : 1515725010 F9M90 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.12	12.56 ug/ml	1175693	1,4-Dichlorobenzene-d4	1871822

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 1-(1-methylethoxy)-	4494	000627-08-7	33.00
2	TATP	79768	017088-37-8	32.00
3	Isopropyl acetate	4255	000108-21-4	25.00
4	S-(-)-2-Methylbutylamine	1929	020626-52-2	9.00
5	sec-Butyl acetate	8084	000105-46-4	9.00

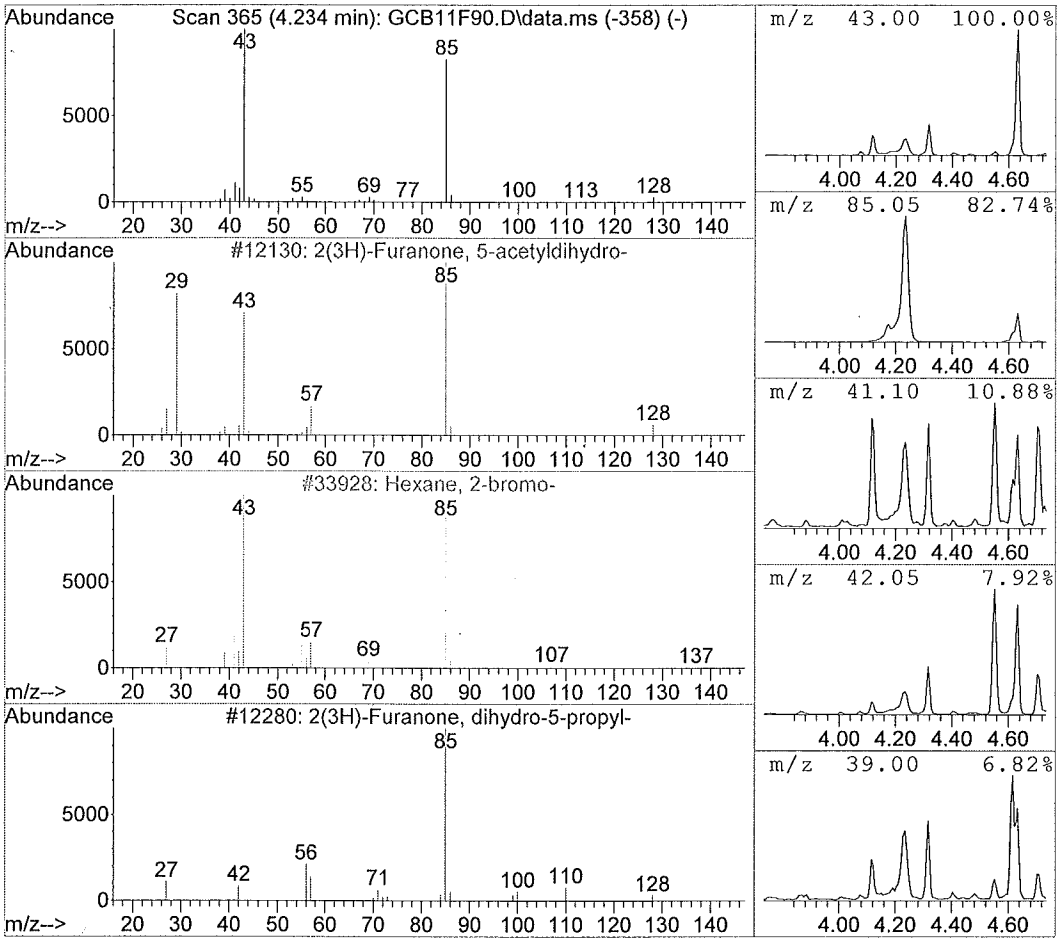


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB11F90.D Vial: 33
Acq On : 06/23/2015 22:36 Operator: TJM
Sample : 1515725010 F9M90 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.23	20.46 ug/ml	1914771	1,4-Dichlorobenzene-d4	1871822

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2(3H)-Furanone, 5-acetyldihydro-	12130	029393-32-6	50.00
2	Hexane, 2-bromo-	33928	003377-86-4	50.00
3	2(3H)-Furanone, dihydro-5-propyl-	12280	000105-21-5	45.00
4	Hexane, 1,1'-oxybis-	50332	000112-58-3	40.00
5	2-Methylbutanoic anhydride	49848	001468-39-9	38.00



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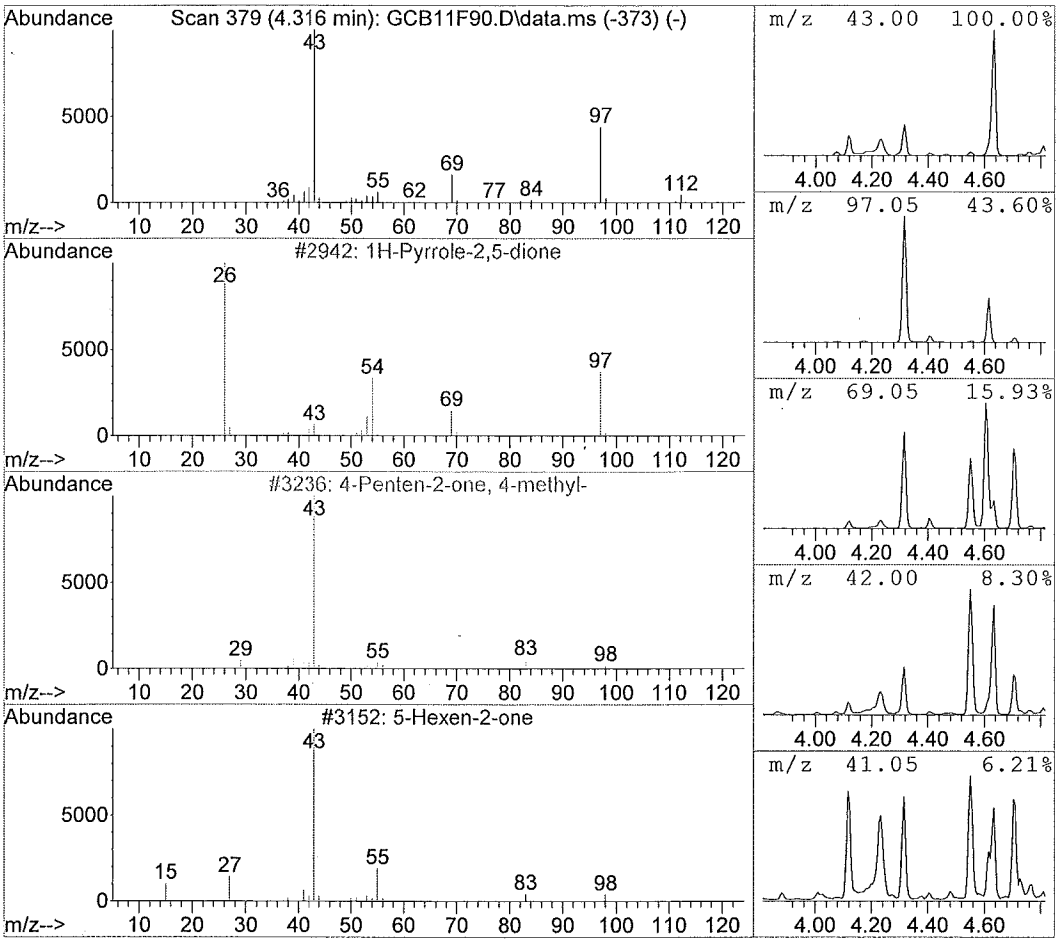
Acq On : 06/23/2015 22:36 Operator: TJM
Sample : 1515725010 F9M90 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.32	19.18 ug/ml	1795417	1,4-Dichlorobenzene-d4	1871822

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	50.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	5-Hexen-2-one	3152	000109-49-9	9.00
4	2-Vinylethyl acetate	7191	001576-84-7	9.00
5	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00

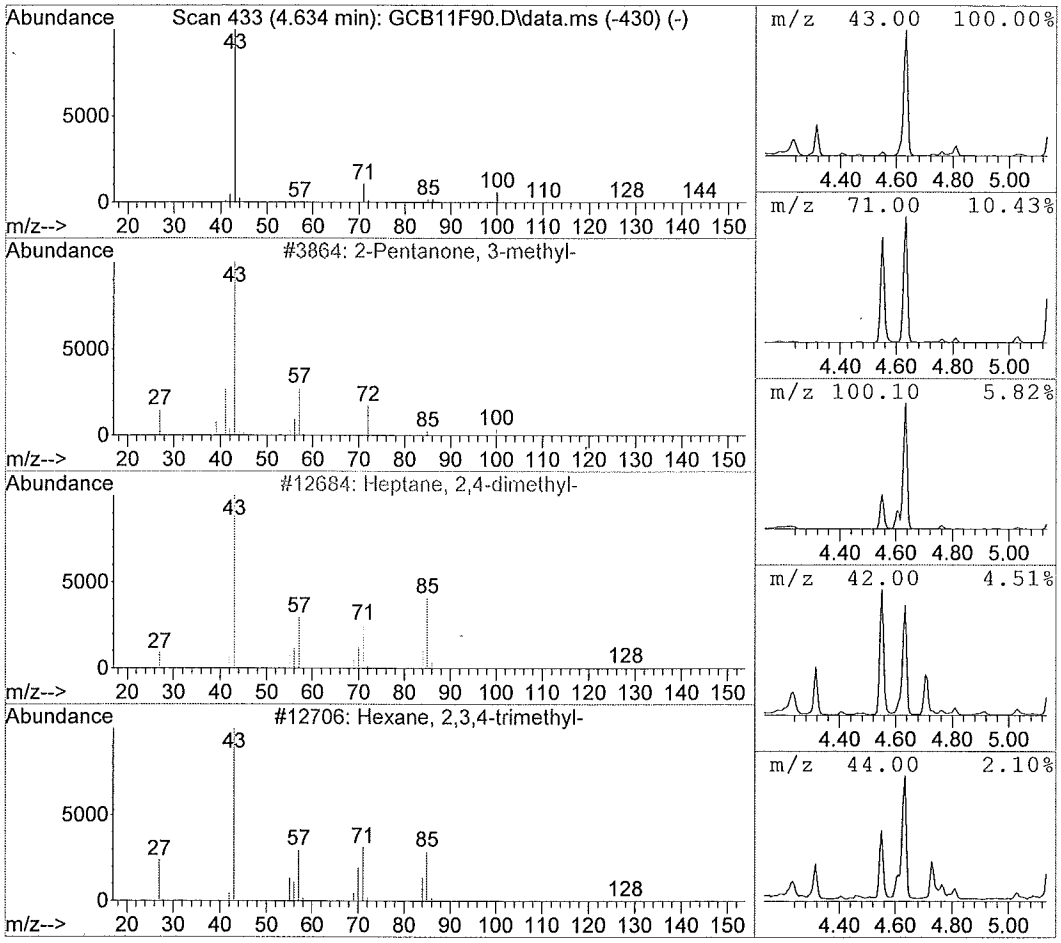


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB11F90.D Vial: 33
Acq On : 06/23/2015 22:36 Operator: TJM
Sample : 1515725010 F9M90 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.63	49.55 ug/ml	4637610	1,4-Dichlorobenzene-d4	1871822

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
2	Heptane, 2,4-dimethyl-	12684	002213-23-2	5.00
3	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00
4	Heptane	3973	000142-82-5	4.00
5	Pentane, 2-methyl-	1823	000107-83-5	4.00

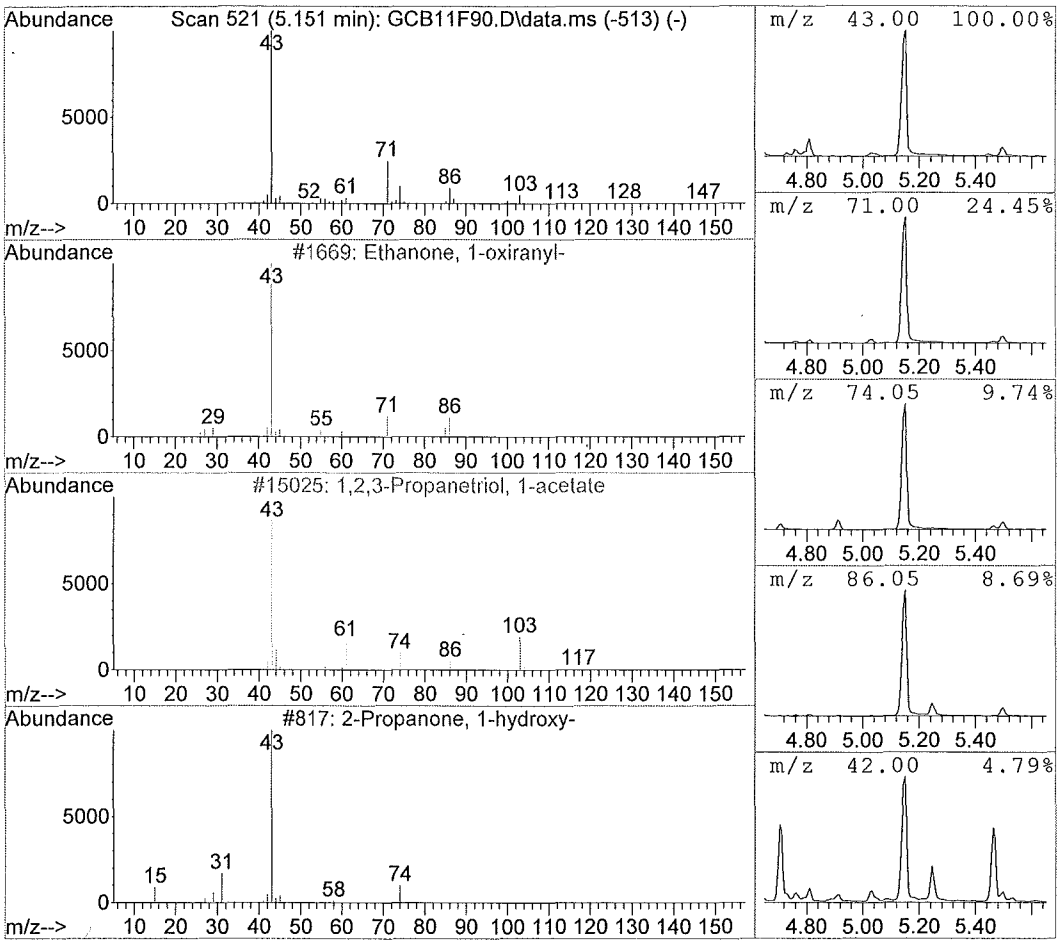


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB11F90.D Vial: 33
Acq On : 06/23/2015 22:36 Operator: TJM
Sample : 1515725010 F9M90 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.15	49.15 ug/ml	4599587	1,4-Dichlorobenzene-d4	1871822

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanone, 1-oxiranyl-	1669	004401-11-0	38.00
2	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	32.00
3	2-Propanone, 1-hydroxy-	817	000116-09-6	27.00
4	Butanoic acid, 3-hydroxy-, methyl e	8724	001487-49-6	12.00
5	Butanal, 2-ethyl-	3806	000097-96-1	9.00

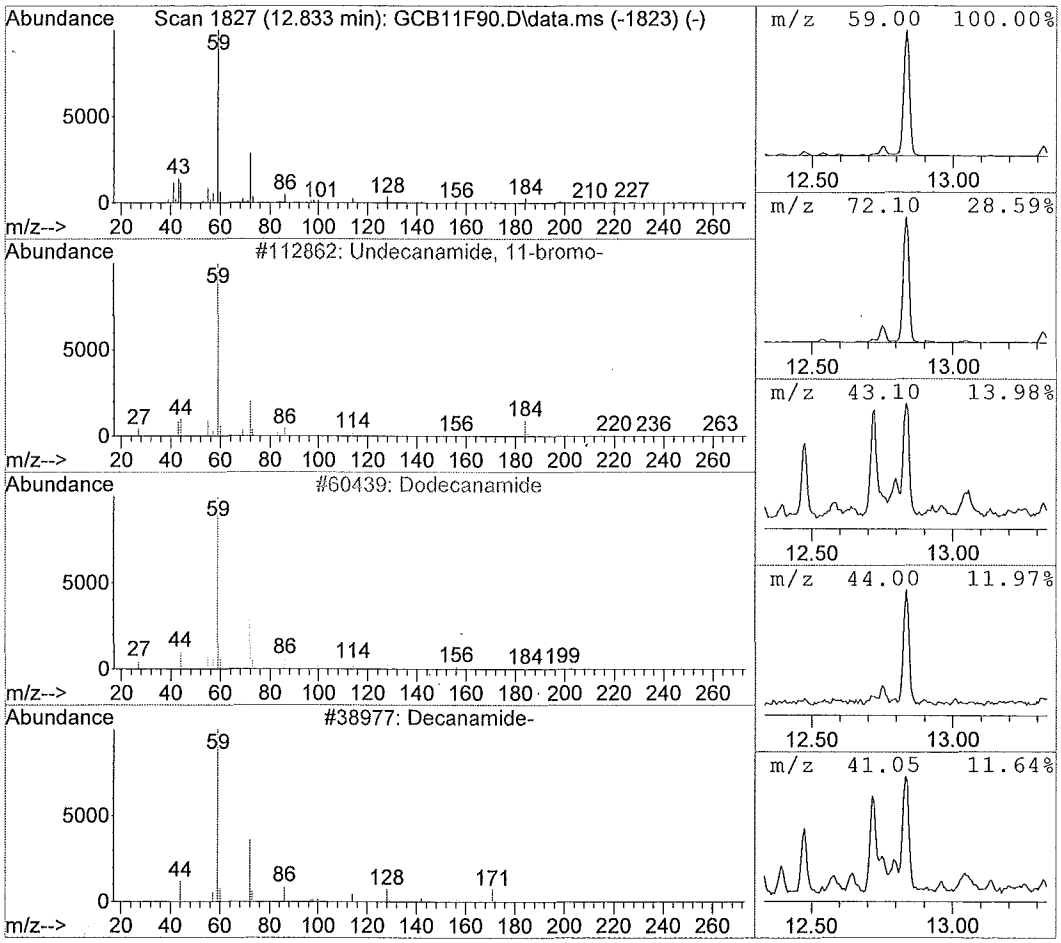


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB11F90.D Vial: 33
Acq On : 06/23/2015 22:36 Operator: TJM
Sample : 1515725010 F9M90 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.83	4.54 ug/ml	664183	Phenanthrene-d10	2927832

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
2	Dodecanamide	60439	001120-16-7	83.00
3	Decanamide-	38977	002319-29-1	74.00
4	Nonanamide	29478	001120-07-6	72.00
5	Hexanamide	7793	000628-02-4	59.00

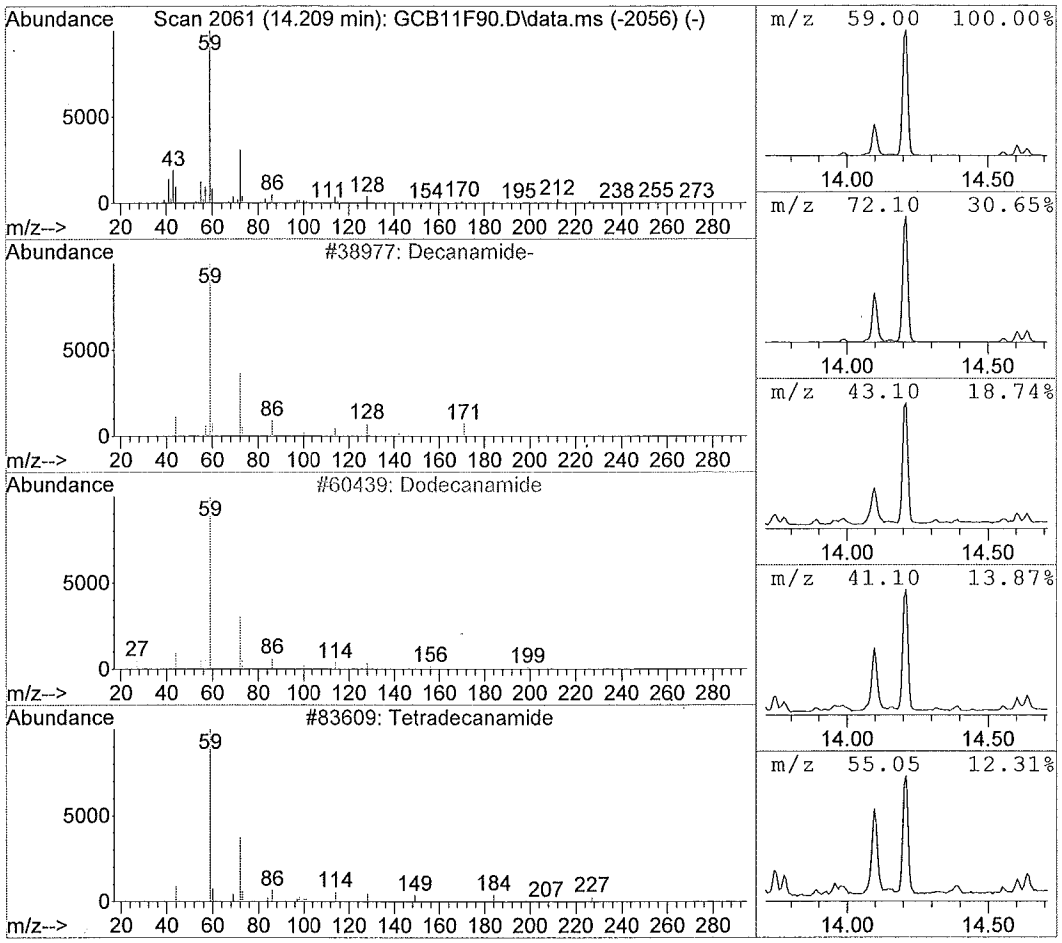


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB11F90.D Vial: 33
Acq On : 06/23/2015 22:36 Operator: TJM
Sample : 1515725010 F9M90 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.21	18.12 ug/ml	2390157	Chrysene-d12	2638365

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decanamide-	38977	002319-29-1	91.00
2	Dodecanamide	60439	001120-16-7	90.00
3	Tetradecanamide	83609	000638-58-4	78.00
4	Nonanamide	29478	001120-07-6	78.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	78.00

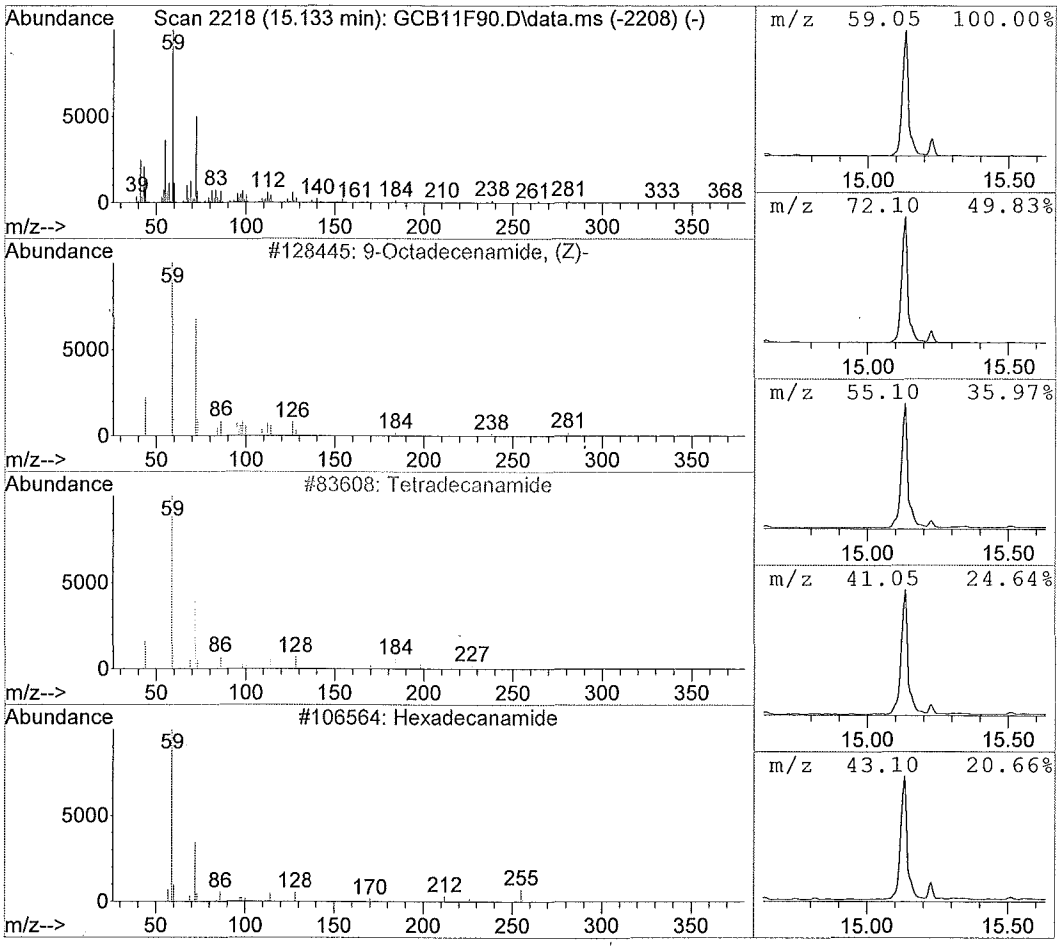


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB11F90.D Vial: 33
Acq On : 06/23/2015 22:36 Operator: TJM
Sample : 1515725010 F9M90 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.13	130.35 ug/ml	17195075	Chrysene-d12	2638365

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	95.00
2	Tetradecanamide	83608	000638-58-4	72.00
3	Hexadecanamide	106564	000629-54-9	72.00
4	Dodecanamide	60439	001120-16-7	59.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	56.00

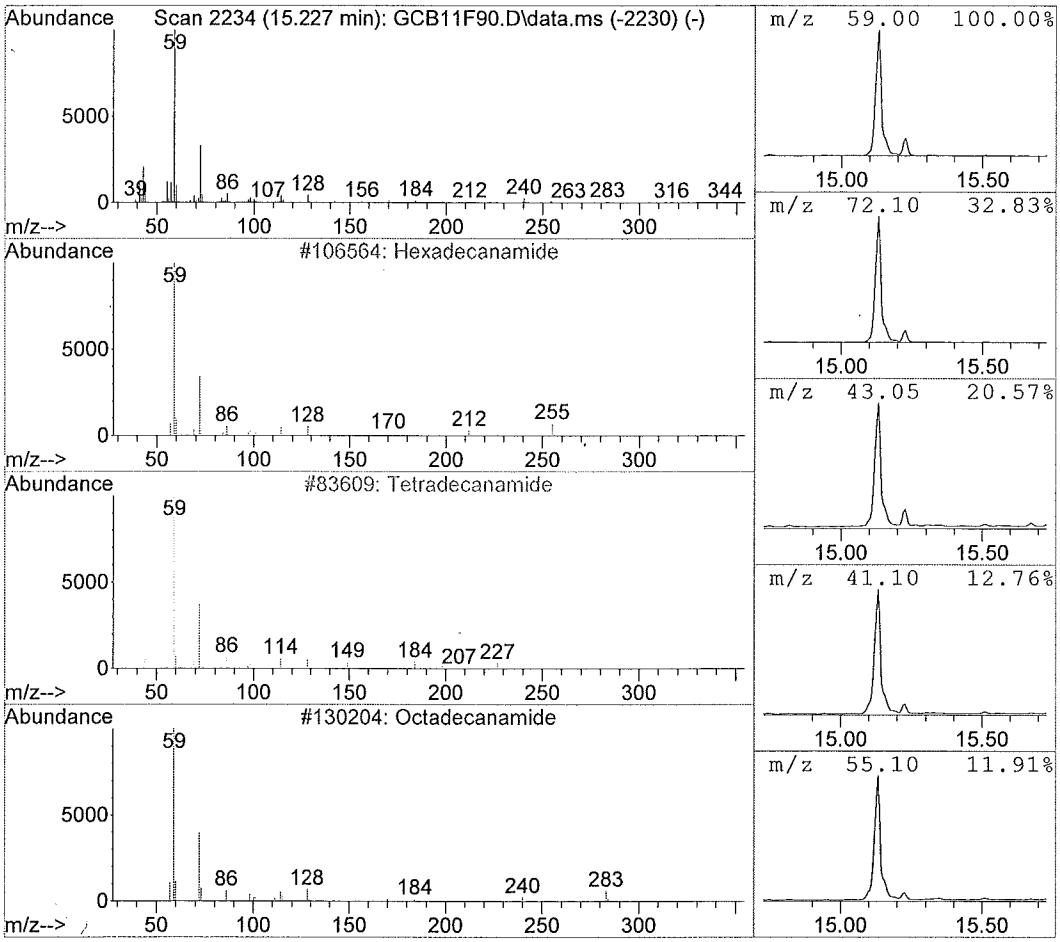


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB11F90.D Vial: 33
Acq On : 06/23/2015 22:36 Operator: TJM
Sample : 1515725010 F9M90 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.23	7.21 ug/ml	951351	Chrysene-d12	2638365

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	97.00
2	Tetradecanamide	83609	000638-58-4	86.00
3	Octadecanamide	130204	000124-26-5	83.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	78.00
5	Decanamide-	38977	002319-29-1	64.00

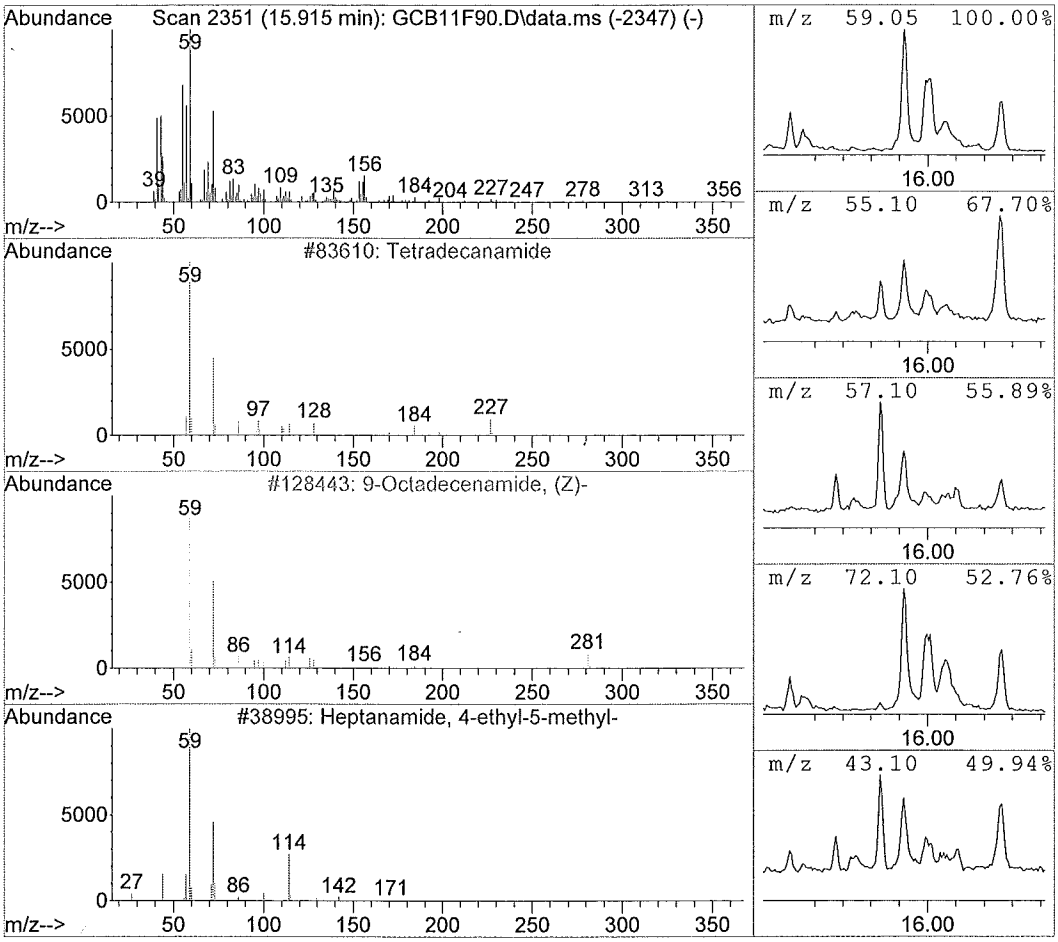


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB11F90.D Vial: 33
Acq On : 06/23/2015 22:36 Operator: TJM
Sample : 1515725010 F9M90 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.92	4.34 ug/ml	572283	Chrysene-d12	2638365

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83610	000638-58-4	76.00
2	9-Octadecenamide, (Z)-	128443	000301-02-0	64.00
3	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	53.00
4	7-Nonenamide	28131	090949-53-4	53.00
5	Dodecanamide	60440	001120-16-7	50.00

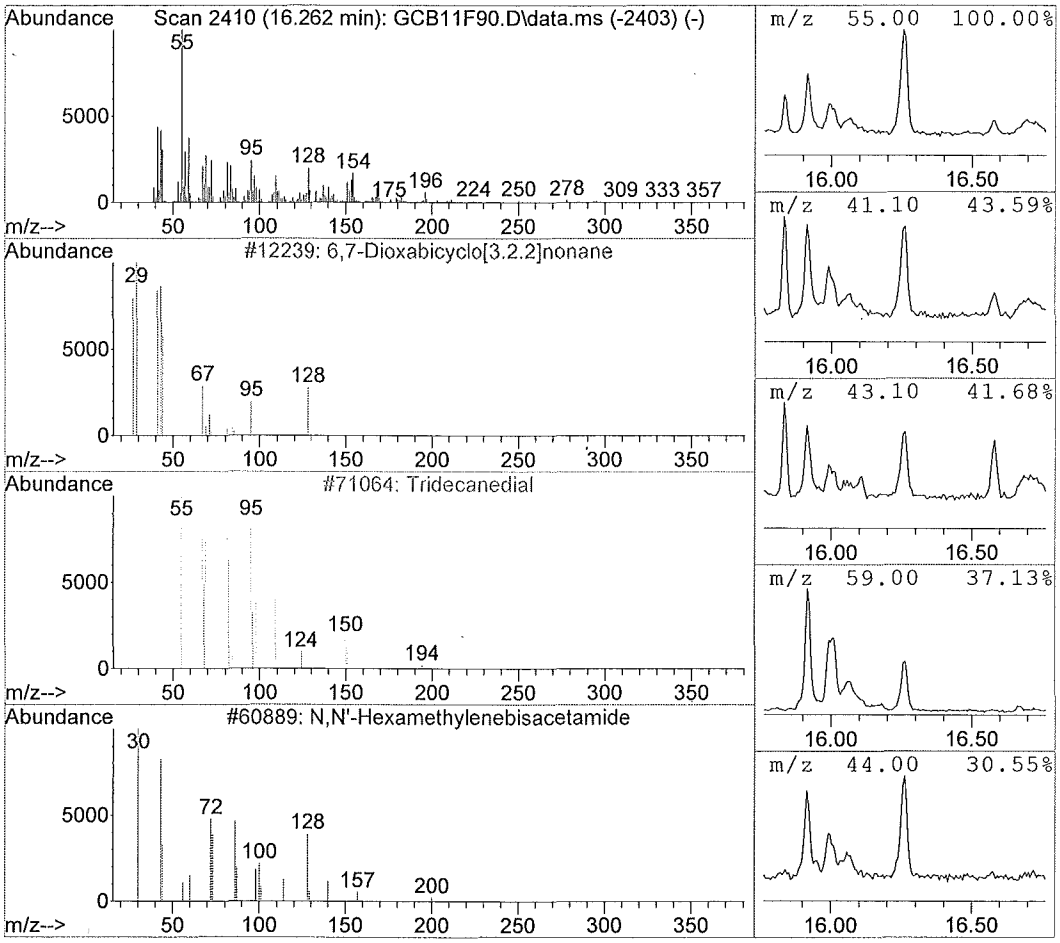


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB11F90.D Vial: 33
Acq On : 06/23/2015 22:36 Operator: TJM
Sample : 1515725010 F9M90 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.26	6.61 ug/ml	872473	Chrysene-d12	2638365

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	6,7-Dioxabicyclo[3.2.2]nonane	12239	000283-35-2	14.00
2	Tridecanedial	71064	063521-76-6	10.00
3	N,N'-Hexamethylenebisacetamide	60889	003073-59-4	10.00
4	Octanoic acid, 2,2-dichloro-3-hydro	106732	1000141-71-4	10.00
5	Propanoic acid, 2,3-dibromo-	86285	000600-05-5	10.00

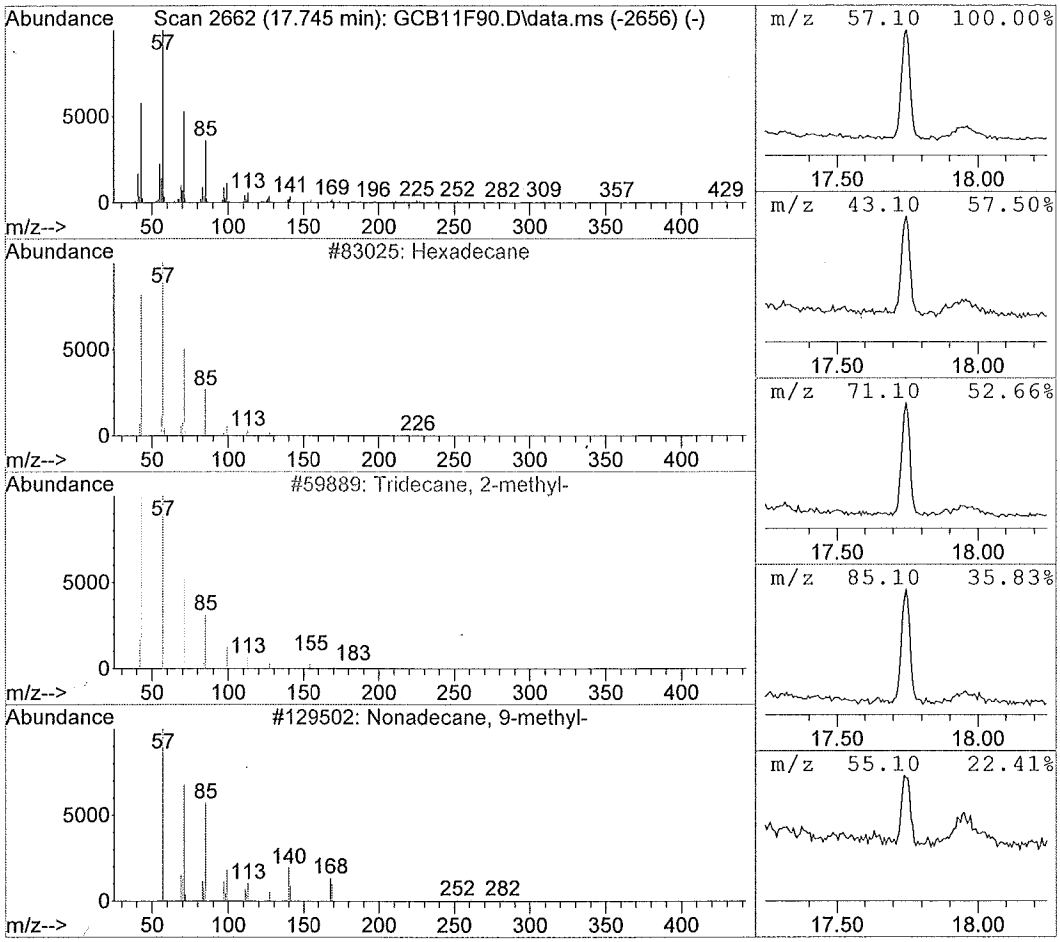


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB11F90.D Vial: 33
Acq On : 06/23/2015 22:36 Operator: TJM
Sample : 1515725010 F9M90 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.74	7.23 ug/ml	503408	Perylene-d12	1393366

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane	83025	000544-76-3	93.00
2	Tridecane, 2-methyl-	59889	001560-96-9	90.00
3	Nonadecane, 9-methyl-	129502	013287-24-6	90.00
4	Tetracosane	175557	000646-31-1	90.00
5	Heptadecane, 9-octyl-	185535	007225-64-1	87.00

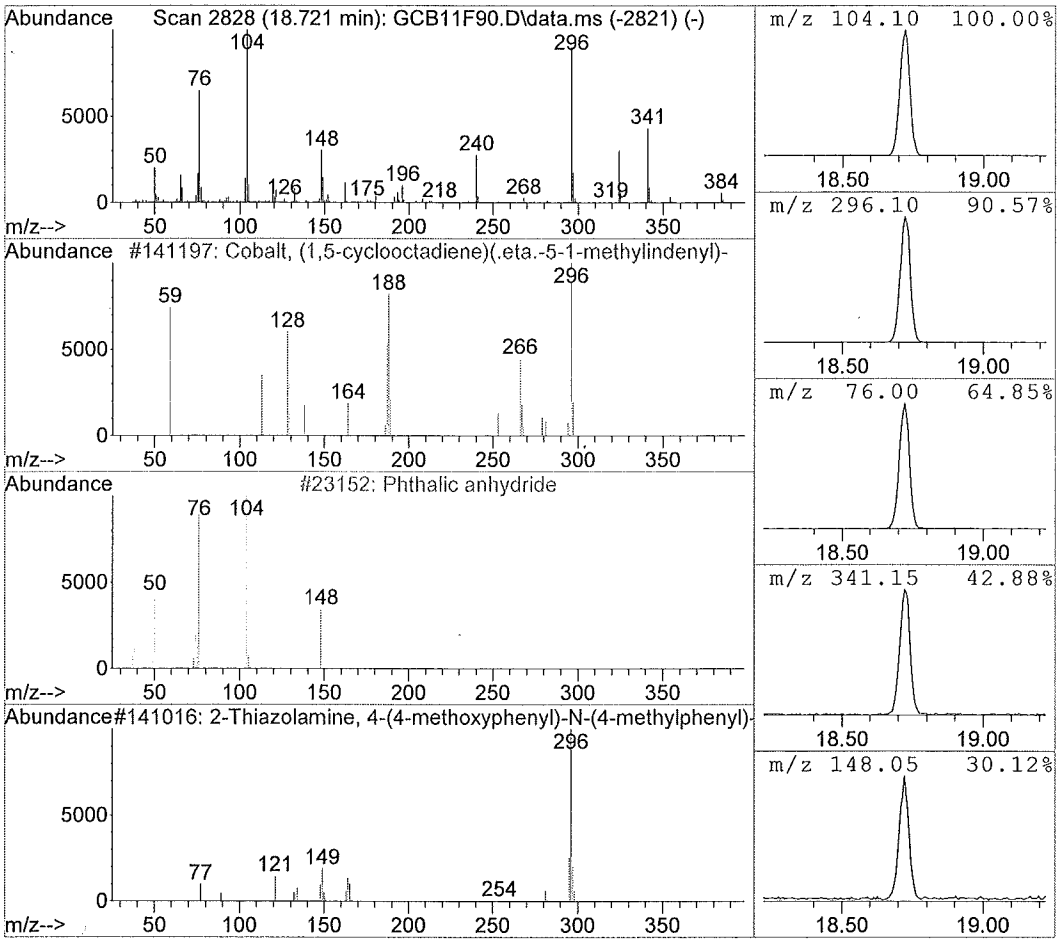


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB11F90.D Vial: 33
Acq On : 06/23/2015 22:36 Operator: TJM
Sample : 1515725010 F9M90 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.72	16.95 ug/ml	1180652	Perylene-d12	1393366

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cobalt, (1,5-cyclooctadiene)(.eta.-	141197	1000151-80-3	90.00
2	Phthalic anhydride	23152	000085-44-9	27.00
3	2-Thiazolamine, 4-(4-methoxyphenyl)	141016	1000319-57-2	18.00
4	1,2-Benzenedicarboxylic acid	35572	000088-99-3	16.00
5	trans-4'-Dimethylamino-3-nitrochalc	140969	1000234-56-7	14.00

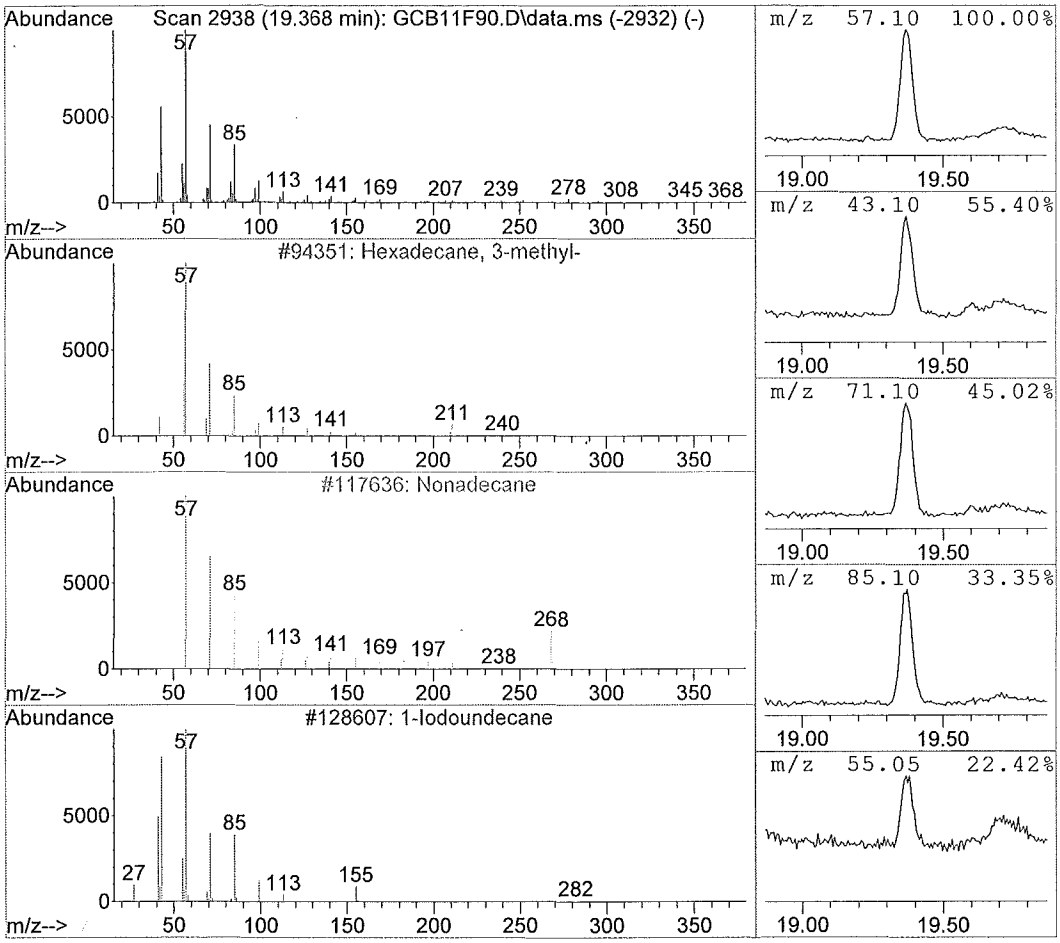


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB11F90.D Vial: 33
Acq On : 06/23/2015 22:36 Operator: TJM
Sample : 1515725010 F9M90 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.37	7.92 ug/ml	551744	Perylene-d12	1393366

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane, 3-methyl-	94351	006418-43-5	90.00
2	Nonadecane	117636	000629-92-5	90.00
3	1-Iodoundecane	128607	004282-44-4	90.00
4	Tetracosane	175559	000646-31-1	87.00
5	Heptacosane	202662	000593-49-7	86.00

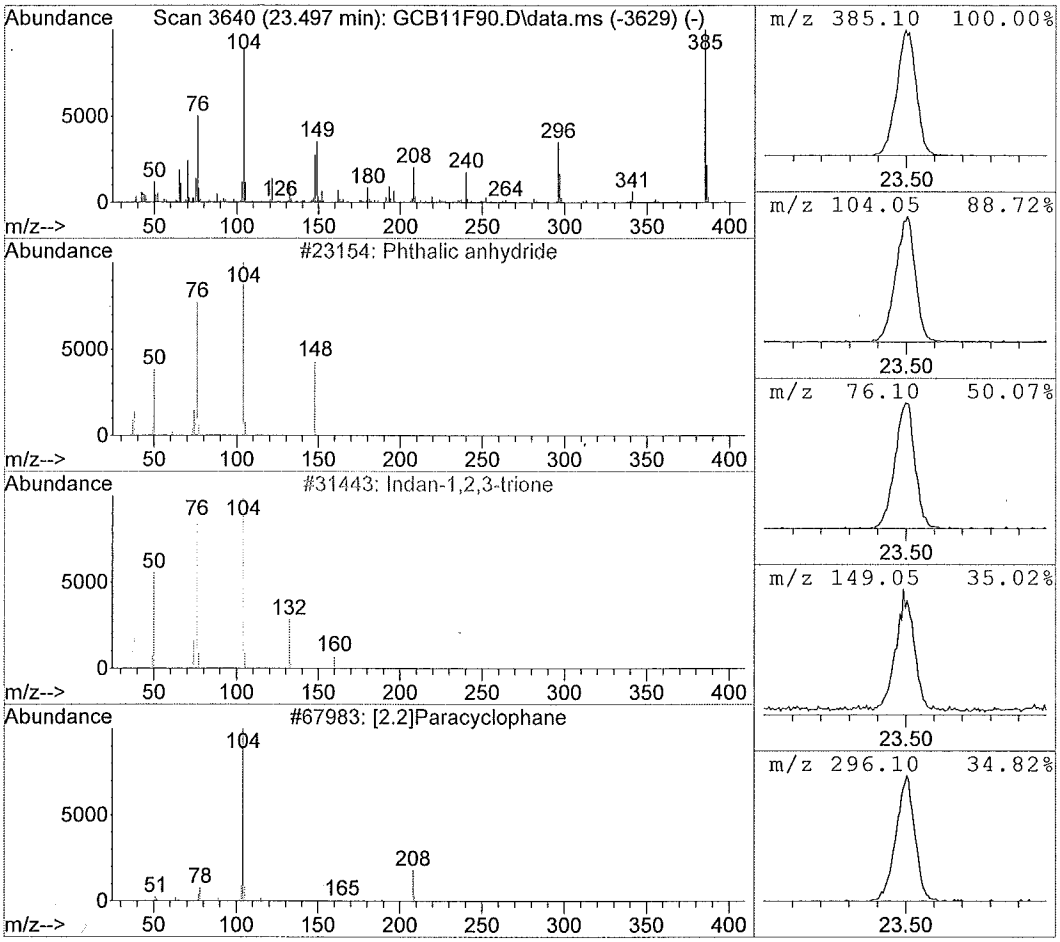


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB11F90.D Vial: 33
Acq On : 06/23/2015 22:36 Operator: TJM
Sample : 1515725010 F9M90 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.50	18.53 ug/ml	1290716	Perylene-d12	1393366

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23154	000085-44-9	35.00
2	Indan-1,2,3-trione	31443	000938-24-9	22.00
3	[2.2]Paracyclophane	67983	001633-22-3	18.00
4	Xanthine, 1,3-diethyl-8-[4-[[[ethyl	204982	104576-48-9	14.00
5	Picolinyl 8-(5-hexyl-2-furyl)-octan	205200	1000335-93-0	14.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M91

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725011

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCC08F91

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.4 Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 6.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	180	U
108-95-2	Phenol	180	U
111-44-4	Bis(2-chloroethyl)ether	180	U
95-57-8	2-Chlorophenol	180	U
95-48-7	2-Methylphenol	180	U
108-60-1	2,2'-Oxybis(1-chloropropane)	180	U
98-86-2	Acetophenone	180	U
106-44-5	4-Methylphenol	180	U
621-64-7	N-Nitroso-di-n-propylamine	180	U
67-72-1	Hexachloroethane	180	U
98-95-3	Nitrobenzene	180	U
78-59-1	Isophorone	180	U
88-75-5	2-Nitrophenol	180	U
105-67-9	2,4-Dimethylphenol	180	U
111-91-1	Bis(2-chloroethoxy)methane	180	U
120-83-2	2,4-Dichlorophenol	180	U
91-20-3	Naphthalene	180	U
106-47-8	4-Chloroaniline	180	U
87-68-3	Hexachlorobutadiene	180	U
105-60-2	Caprolactam	180	U
59-50-7	4-Chloro-3-methylphenol	180	U
91-57-6	2-Methylnaphthalene	180	U
77-47-4	Hexachlorocyclopentadiene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U
92-52-4	1,1'-Biphenyl	180	U
91-58-7	2-Chloronaphthalene	180	U
88-74-4	2-Nitroaniline	360	U
131-11-3	Dimethylphthalate	180	U
606-20-2	2,6-Dinitrotoluene	180	U
208-96-8	Acenaphthylene	180	U
99-09-2	3-Nitroaniline	360	U
83-32-9	Acenaphthene	180	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M91

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725011

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCC08F91

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.4 Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 6.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	360	U
100-02-7	4-Nitrophenol	360	U
132-64-9	Dibenzofuran	180	U
121-14-2	2,4-Dinitrotoluene	180	U
84-66-2	Diethylphthalate	180	U
86-73-7	Fluorene	180	U
7005-72-3	4-Chlorophenyl-phenylether	180	U
100-01-6	4-Nitroaniline	360	U
534-52-1	4,6-Dinitro-2-methylphenol	360	U
86-30-6	N-Nitrosodiphenylamine[1]	180	U
95-94-3	1,2,4,5-Tetrachlorobenzene	180	U
101-55-3	4-Bromophenyl-phenylether	180	U
118-74-1	Hexachlorobenzene	180	U
1912-24-9	Atrazine	180	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	180	U
120-12-7	Anthracene	180	U
86-74-8	Carbazole	180	U
84-74-2	Di-n-butylphthalate	180	U
206-44-0	Fluoranthene	180	U
129-00-0	Pyrene	180	U
85-68-7	Butylbenzylphthalate	180	U
91-94-1	3,3'-Dichlorobenzidine	180	U
56-55-3	Benzo(a)anthracene	180	U
218-01-9	Chrysene	180	U
117-81-7	Bis(2-ethylhexyl)phthalate	180	U
117-84-0	Di-n-octylphthalate	180	U
205-99-2	Benzo(b)fluoranthene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
50-32-8	Benzo(a)pyrene	180	U
193-39-5	Indeno(1,2,3-cd)pyrene	180	U
53-70-3	Dibenzo(a,h)anthracene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
58-90-2	2,3,4,6-Tetrachlorophenol	180	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M91

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725011
Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCC08F91
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 8.4 Decanted: (Y/N) N Date Received: 06/05/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015
GPC Cleanup: (Y/N) Y pH: 6.6 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Pentanone, 4-hydroxy-	3.35	800	JB
02		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.56	16000	JB
03		Unknown 2-Nonanone	4.12	410	JB
04		Unknown 2(3H)-Furanone, 5-acetyldihydro-	4.23	950	J
05		Unknown 1H-Pyrrole-2,5-dione	4.32	700	J
06		Unknown Ethanol, 2-(2-methoxyethoxy)-	4.73	210	J
07		Unknown 3-Pentenoic acid, 4-methyl-	5.05	290	J
08		Unknown Ethanone, 1-oxiranyl-	5.16	2100	J
09	1000336-31-4	Methyl 13-methyltetradecanoate	11.38	240	JN
10	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	12.32	260	JN
11	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	12.40	200	JN
12	57-10-3	n-Hexadecanoic acid	12.73	400	JN
13	52380-33-3	11-Octadecenoic acid, methyl ester	13.74	280	JN
14	506-17-2	cis-Vaccenic acid	13.96	550	JN
15	1120-16-7	Dodecanamide	14.22	560	JN
16	301-02-0	9-Octadecenamide, (Z)-	15.14	4000	JNB
17	629-54-9	Hexadecanamide	15.23	220	JNB
18		Unknown 7,7-Dimethyl-2,3-dioxobicyclo[2.2.1]hept	16.27	240	J
19		Unknown 1,2-Benzenedicarboxylic acid	18.73	310	J
20	557-61-9	Octacosanol	19.75	970	JN
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	5900	J

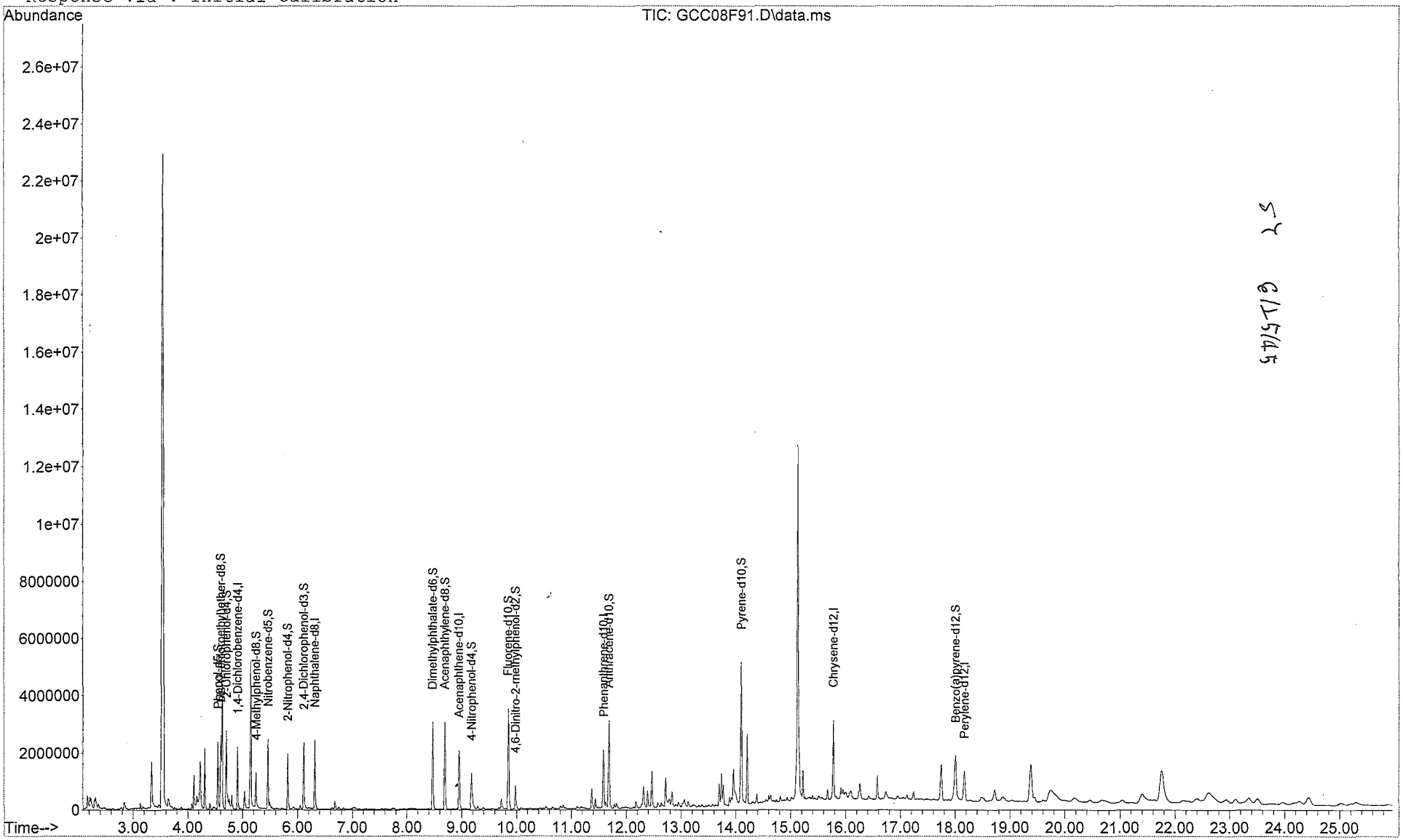
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC08F91.D Vial: 7
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 25 06:32:21 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration



GCC08F91.D GSOM01D6.M Thu Jun 25 06:37:01 2015 Page 3

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC08F91.D Vial: 7
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 06:32:21 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.92	152	306897	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1158211	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	674791	20.00 ug/ml
59) Phenanthrene-d10	11.59	188	1152721	20.00 ug/ml
73) Chrysene-d12	15.79	240	1079636	20.00 ug/ml
81) Perylene-d12	18.17	264	747236	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.56	99	791780	29.647ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	554636	26.649ug/mL
7) 2-Chlorophenol-d4	4.71	132	672435	29.821ug/ml
13) 4-Methylphenol-d8	5.25	113	259681	14.537ug/mL
17) Nitrobenzene-d5	5.47	128	307708	30.243ug/ml
21) 2-Nitrophenol-d4	5.83	143	336843	31.321ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	547196	32.676ug/mL
28) 4-Chloroaniline-d4	6.42	131	1017	0.056ug/mL
42) Dimethylphthalate-d6	8.48	166	1603963	37.906ug/mL
45) Acenaphthylene-d8	8.70	160	1833999	31.894ug/mL
50) 4-Nitrophenol-d4	9.19	143	331688	38.425ug/mL
57) Fluorene-d10	9.86	176	1336421	36.983ug/mL
61) 4,6-Dinitro-2-methylphenol	9.99	200	143441	17.532ug/mL
69) Anthracene-d10	11.69	188	1821461	29.797ug/mL
75) Pyrene-d10	14.10	212	1973728	36.633ug/mL
86) Benzo(a)pyrene-d12	18.01	264	1005435	28.080ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC08F91.D Vial: 7
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 06:32:21 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) Acenaphthylene	0.00	152		Not Detected	
46) 3-Nitroaniline	0.00	138		Not Detected	
47) Acenaphthene	0.00	153		Not Detected	
48) 2,4-Dinitrophenol	0.00	184		Not Detected	
49) 4-Nitrophenol	0.00	109		Not Detected	
51) Dibenzofuran	0.00	168		Not Detected	
52) 2,4-Dinitrotoluene	0.00	165		Not Detected	
53) 2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54) Diethylphthalate	0.00	149		Not Detected	
55) 4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56) Fluorene	0.00	166		Not Detected	
58) 4-Nitroaniline	0.00	138		Not Detected	
60) 4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62) N-Nitrosodiphenylamine	0.00	169		Not Detected	
63) 4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64) Hexachlorobenzene	0.00	284		Not Detected	
65) Atrazine	0.00	200		Not Detected	
66) Pentachlorophenol	0.00	266		Not Detected	
67) Phenanthrene	0.00	178		Not Detected	
68) Anthracene	0.00	178		Not Detected	
70) Carbazole	0.00	167		Not Detected	
71) Di-n-butylphthalate	0.00	149		Not Detected	
72) Fluoranthene	0.00	202		Not Detected	
74) Pyrene	0.00	202		Not Detected	
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	0.00	228		Not Detected	
79) Chrysene	0.00	228		Not Detected	
80) Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	0.00	252		Not Detected	
84) Benzo(k)fluoranthene	0.00	252		Not Detected	
85) Benzo(a)pyrene	0.00	252		Not Detected	
87) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89) Benzo(g,h,i)perylene	0.00	276		Not Detected	

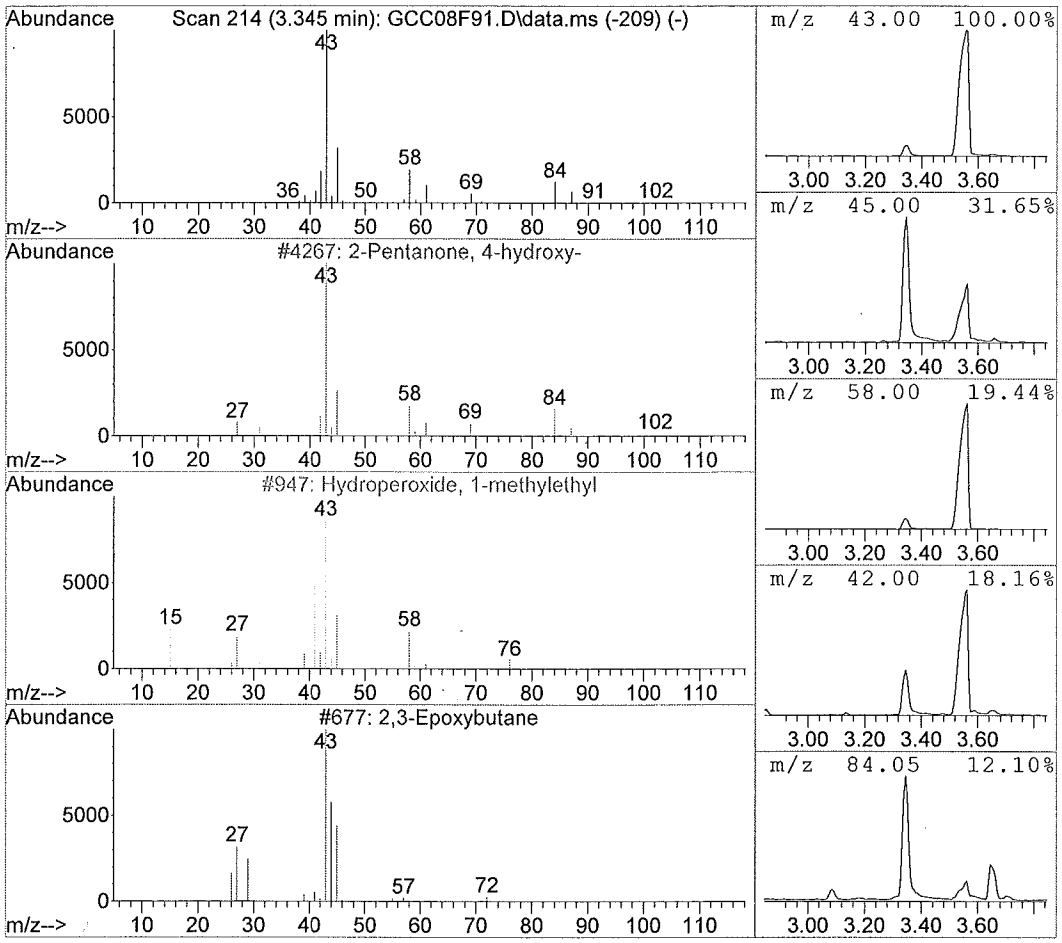
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC08F91.D Vial: 7
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.35	22.26 ug/ml	2388714	1,4-Dichlorobenzene-d4	2146406

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	43.00
2	Hydroperoxide, 1-methylethyl	947	003031-75-2	36.00
3	2,3-Epoxybutane	677	003266-23-7	12.00
4	Acetone	217	000067-64-1	9.00
5	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	9.00

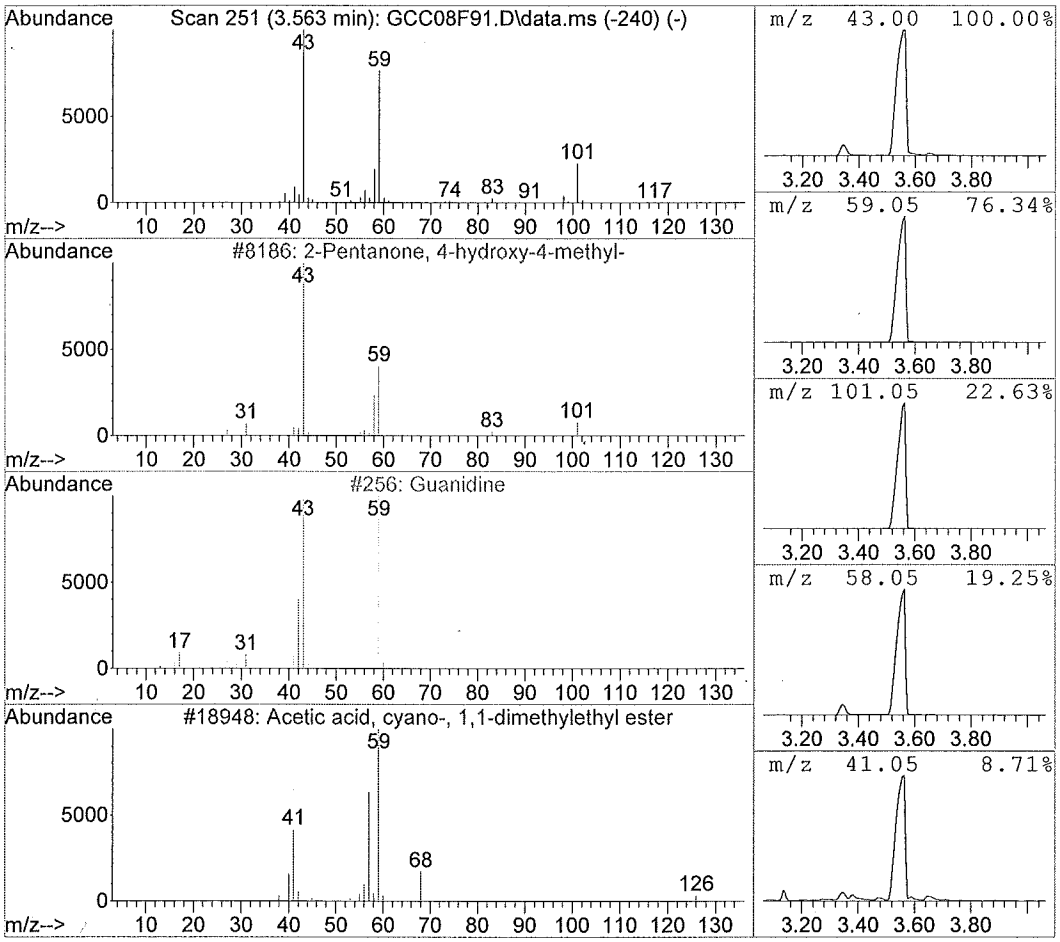


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC08F91.D Vial: 7
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.56	447.39 ug/ml	48013778	1,4-Dichlorobenzene-d4	2146406

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	53.00
2	Guanidine	256	000113-00-8	47.00
3	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
4	2,3-Butanedione, monooxime	4030	000057-71-6	9.00
5	Butane, 1-ethoxy-	4425	000628-81-9	9.00

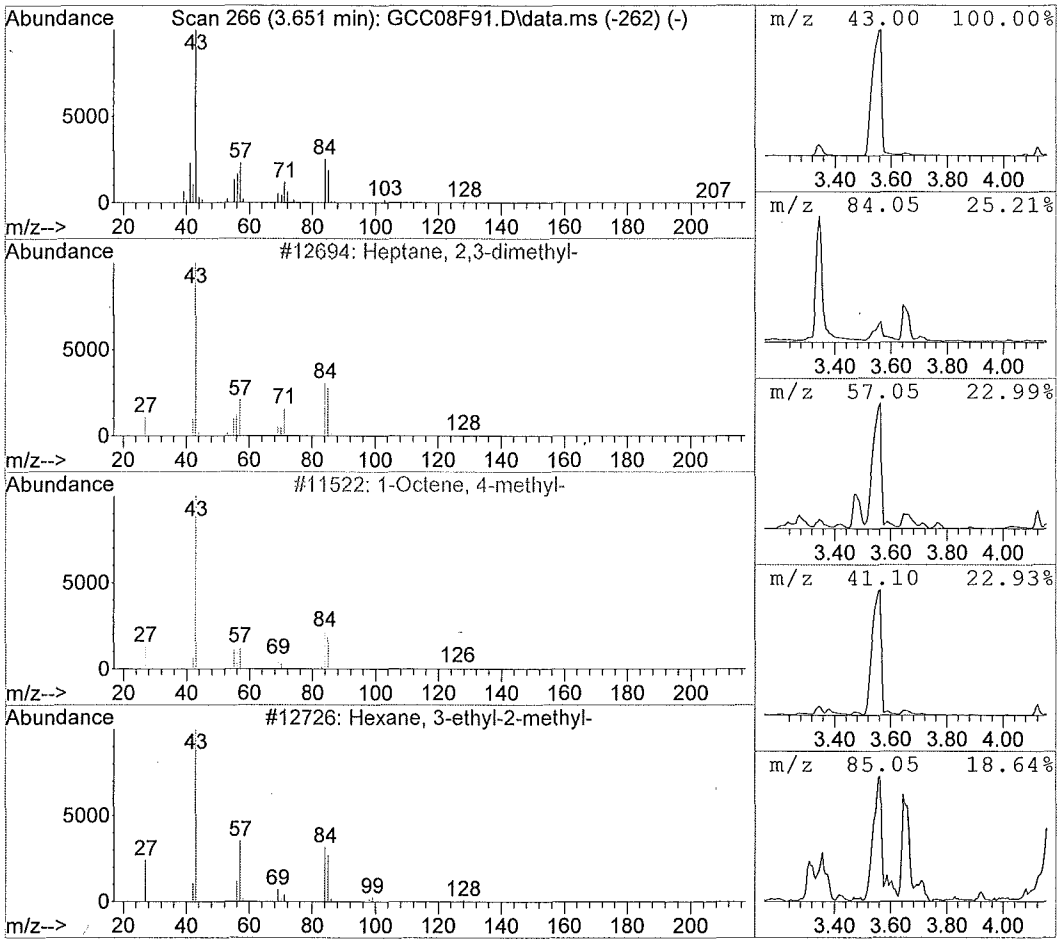


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC08F91.D Vial: 7
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.65	4.90 ug/ml	526027	1,4-Dichlorobenzene-d4	2146406

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12694	003074-71-3	74.00
2	1-Octene, 4-methyl-	11522	013151-12-7	64.00
3	Hexane, 3-ethyl-2-methyl-	12726	016789-46-1	64.00
4	Decane, 5,6-dimethyl-	38341	001636-43-7	56.00
5	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	53.00



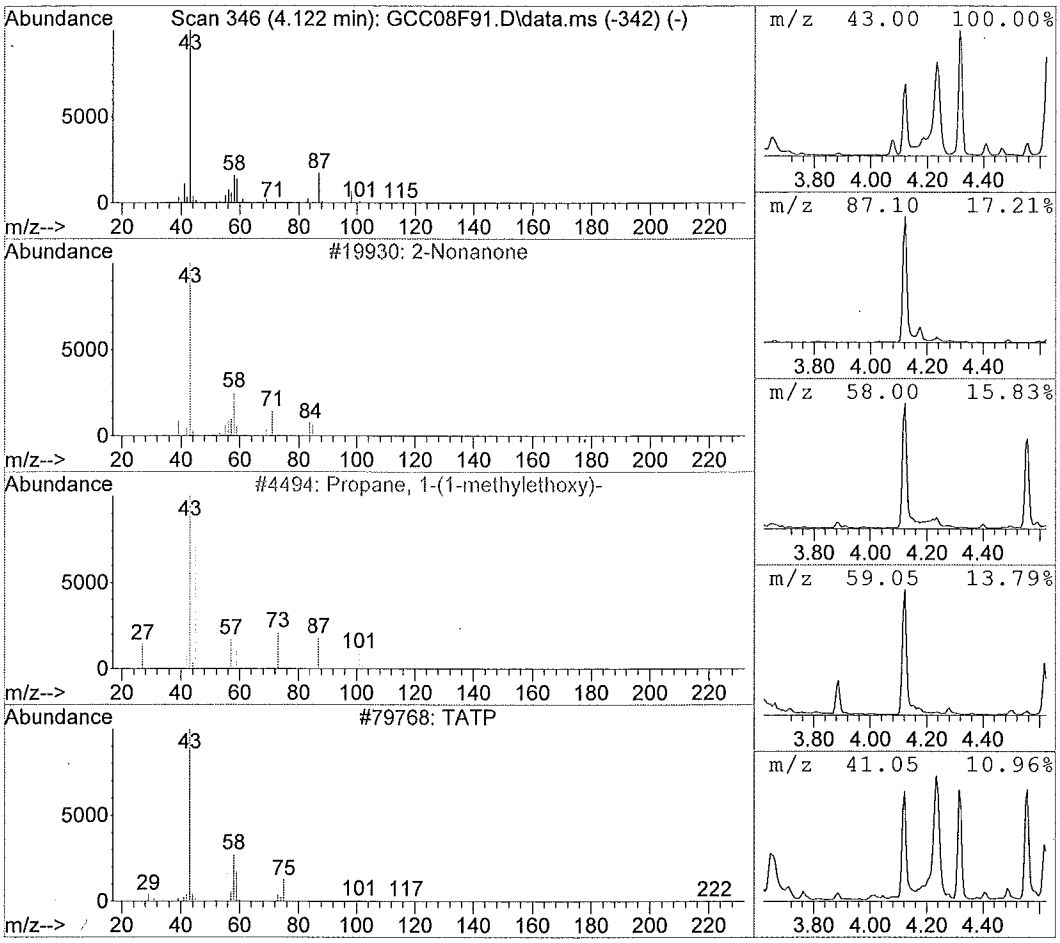
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC08F91.D Vial: 7
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.12	11.50 ug/ml	1234176	1,4-Dichlorobenzene-d4	2146406

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Nonanone	19930	000821-55-6	40.00
2	Propane, 1-(1-methylethoxy)-	4494	000627-08-7	33.00
3	TATP	79768	017088-37-8	32.00
4	Isopropyl acetate	4255	000108-21-4	25.00
5	.alpha.-Hydroxyisobutyric acid, ace	21841	1000374-31-3	17.00



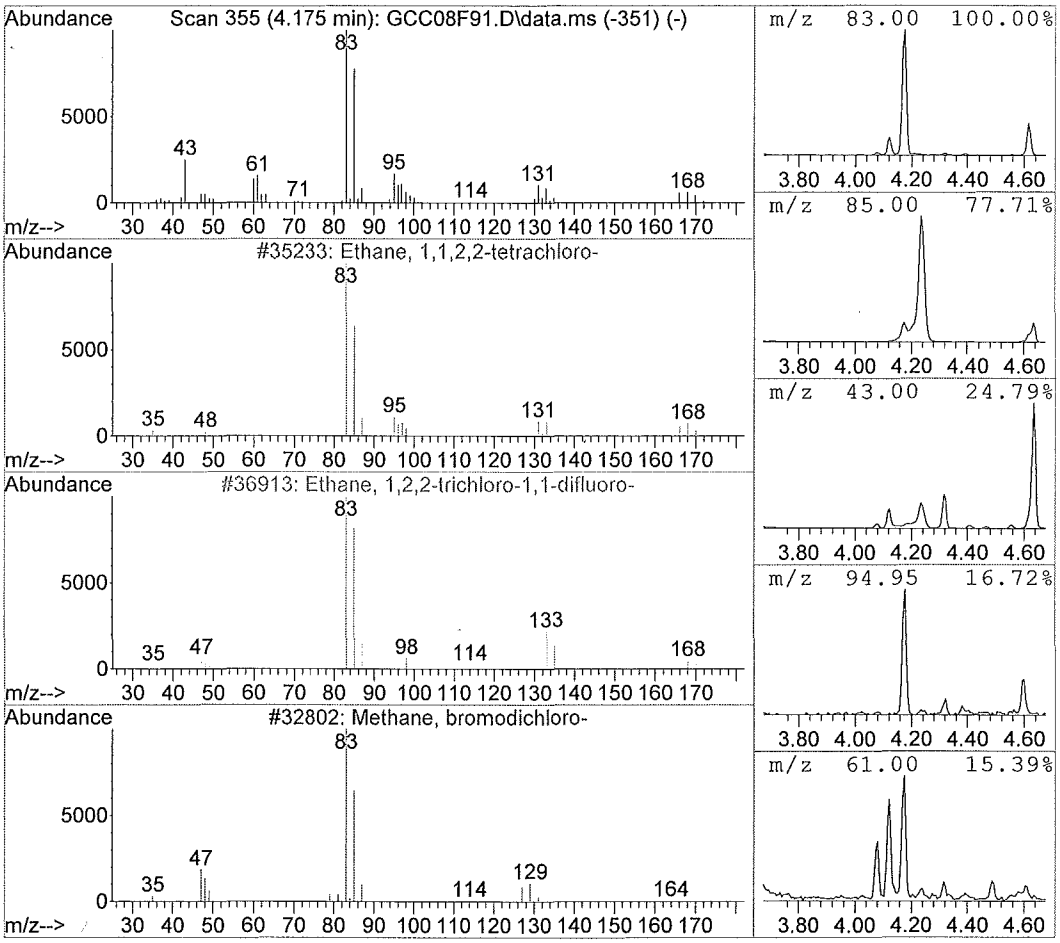
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC08F91.D Vial: 7
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.17	6.49 ug/ml	696314	1,4-Dichlorobenzene-d4	2146406

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro- VOA	35233	000079-34-5	70.00
2	Ethane, 1,2,2-trichloro-1,1-difluor	36913	000354-21-2	58.00
3	Methane, bromodichloro-	32802	000075-27-4	53.00
4	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	42.00
5	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	38.00



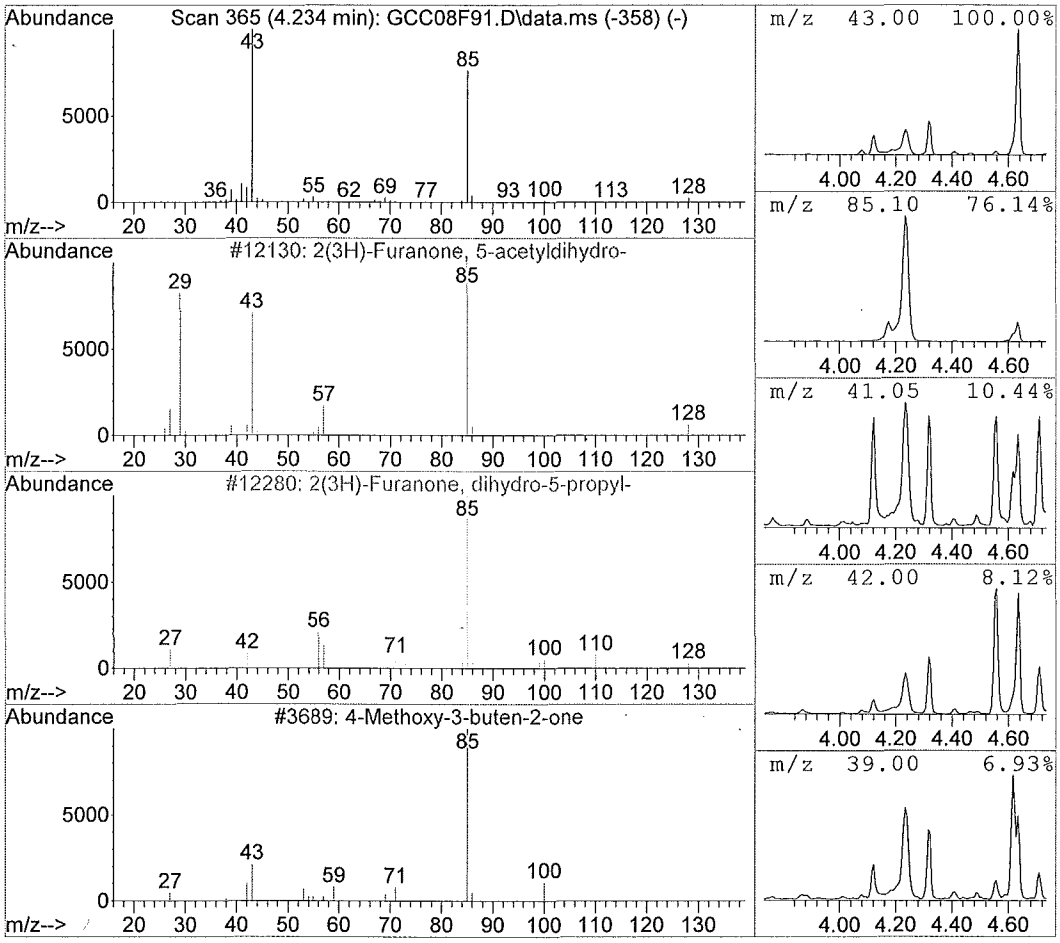
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC08F91.D Vial: 7
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.23	26.37 ug/ml	2829811	1,4-Dichlorobenzene-d4	2146406

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2(3H)-Furanone, 5-acetyldihydro-	12130	029393-32-6	50.00
2	2(3H)-Furanone, dihydro-5-propyl-	12280	000105-21-5	42.00
3	4-Methoxy-3-buten-2-one	3689	004652-27-1	38.00
4	2-Pyrrolidinone	1541	000616-45-5	33.00
5	Hexane, 2,3,5-trimethyl-	12708	001069-53-0	9.00



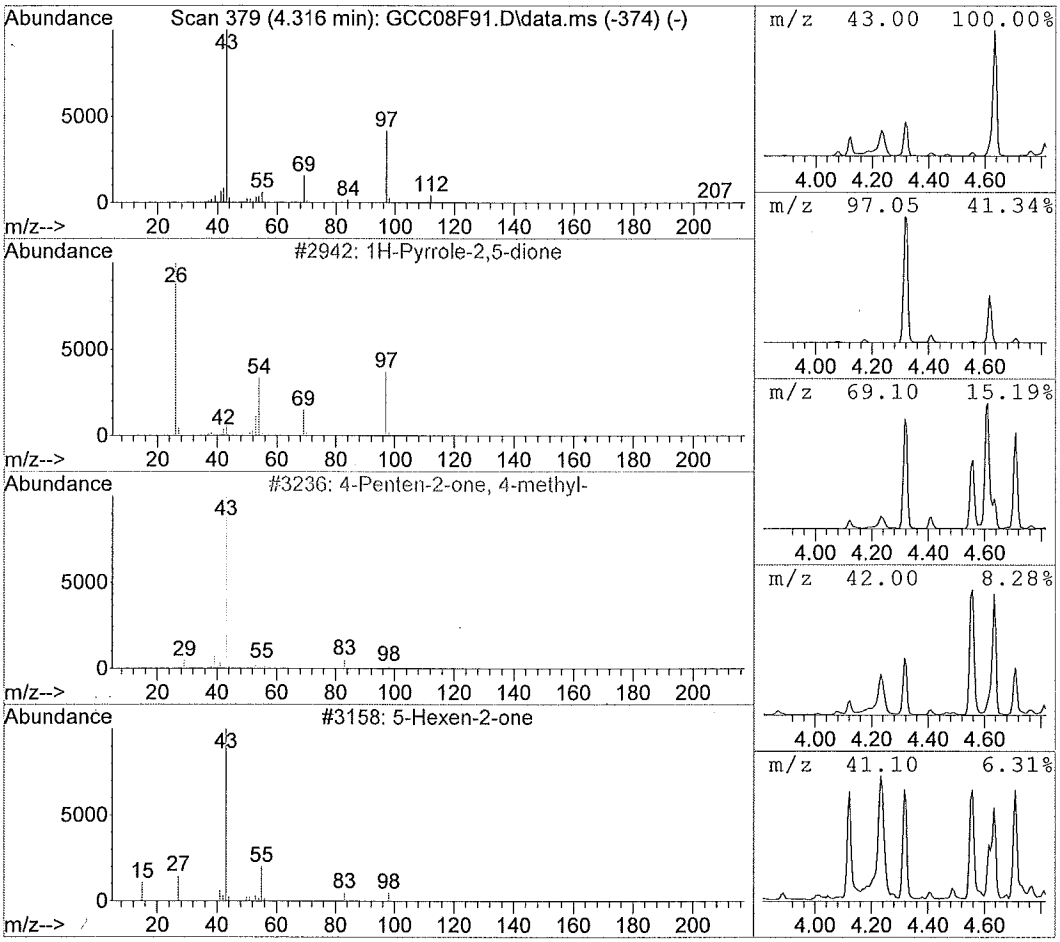
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC08F91.D Vial: 7
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.32	19.55 ug/ml	2097698	1,4-Dichlorobenzene-d4	2146406

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	40.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	5-Hexen-2-one	3158	000109-49-9	9.00
4	2-Vinylethyl acetate	7190	001576-84-7	9.00
5	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00

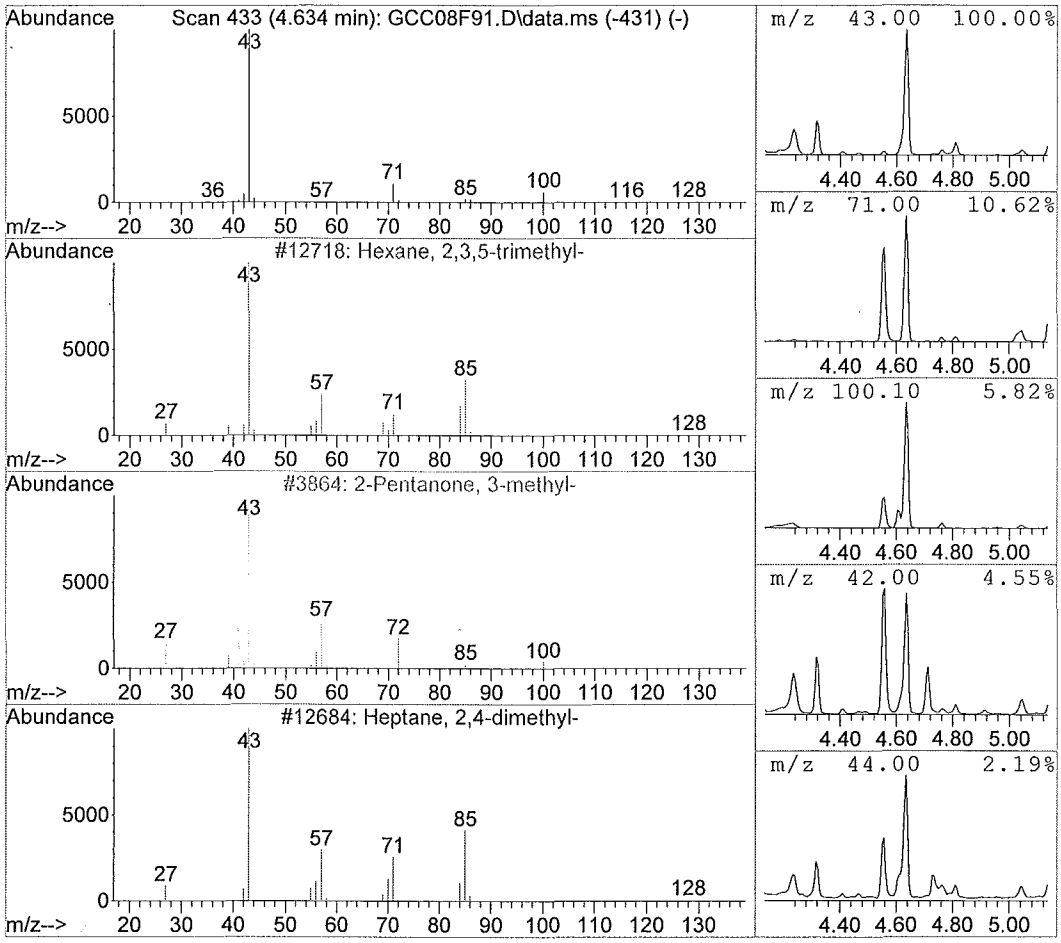


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC08F91.D Vial: 7
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.63	41.48 ug/ml	4451863	1,4-Dichlorobenzene-d4	2146406

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
2	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
3	Heptane, 2,4-dimethyl-	12684	002213-23-2	5.00
4	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00
5	Heptane	3973	000142-82-5	4.00



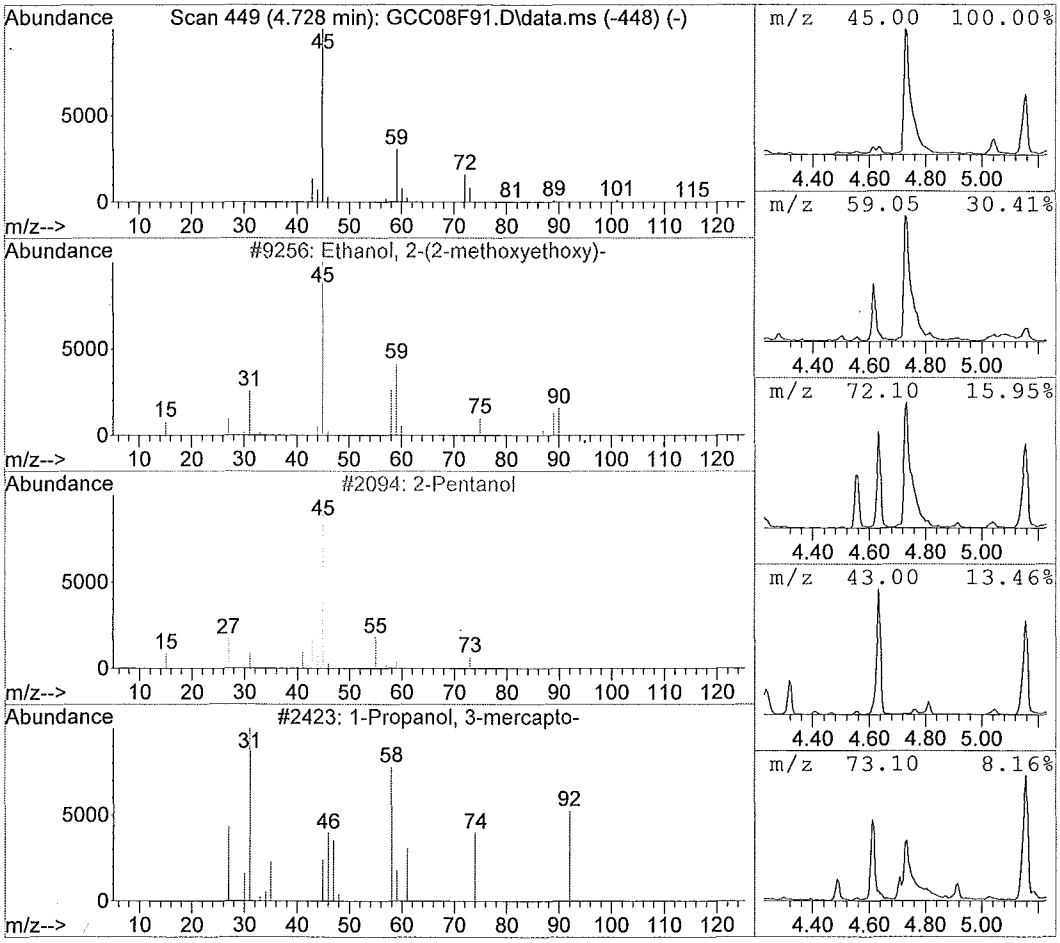
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC08F91.D Vial: 7
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.73	5.95 ug/ml	638948	1,4-Dichlorobenzene-d4	2146406

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanol, 2-(2-methoxyethoxy)-	9256	000111-77-3	39.00
2	2-Pentanol	2094	006032-29-7	36.00
3	1-Propanol, 3-mercapto-	2423	019721-22-3	9.00
4	2-Propanol, 1-propoxy-	8832	001569-01-3	9.00
5	(S)-(+)-1,2-Propanediol	946	004254-15-3	9.00



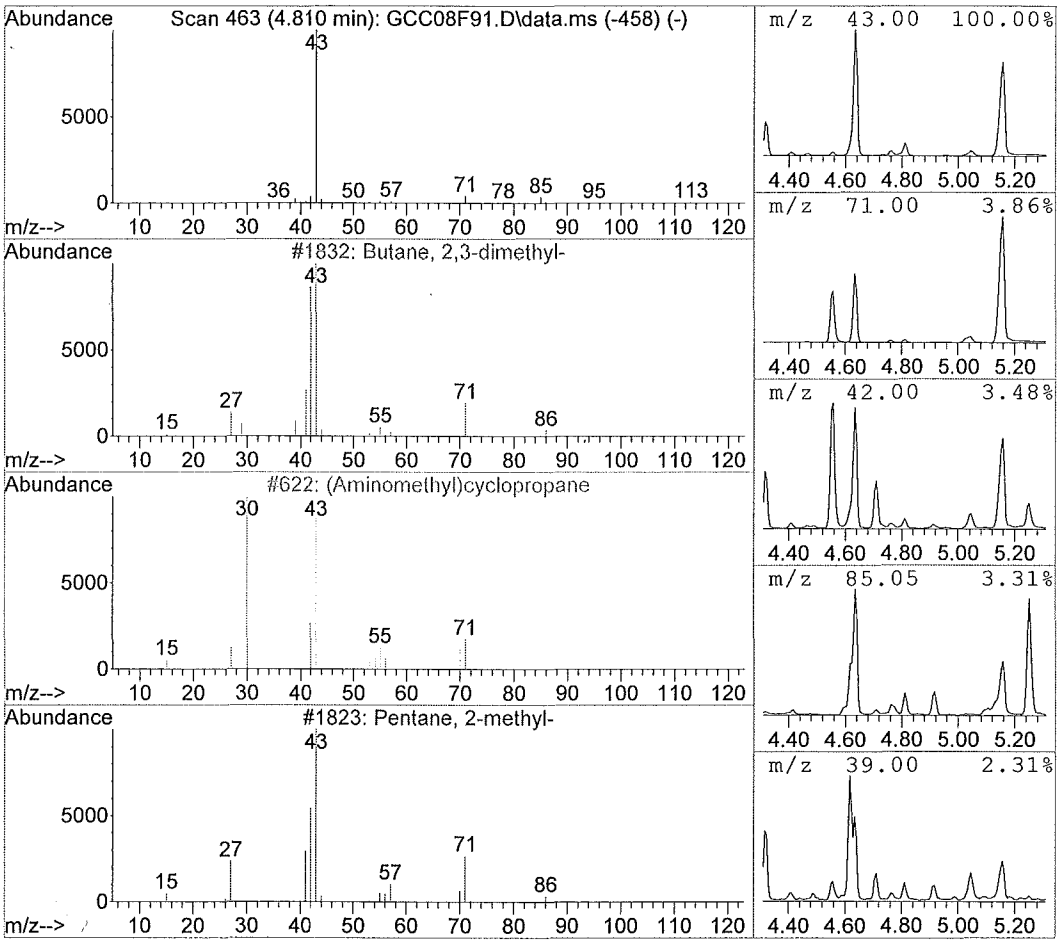
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC08F91.D Vial: 7
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.81	4.63 ug/ml	496639	1,4-Dichlorobenzene-d4	2146406

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Butane, 2,3-dimethyl- BA	1832	000079-29-8	3.00
2	(Aminomethyl)cyclopropane	622	002516-47-4	3.00
3	Pentane, 2-methyl-	1823	000107-83-5	2.00
4	Ethanone, 1-oxiranyl-	1669	004401-11-0	2.00
5	Diacetyl sulphide	8654	003232-39-1	2.00



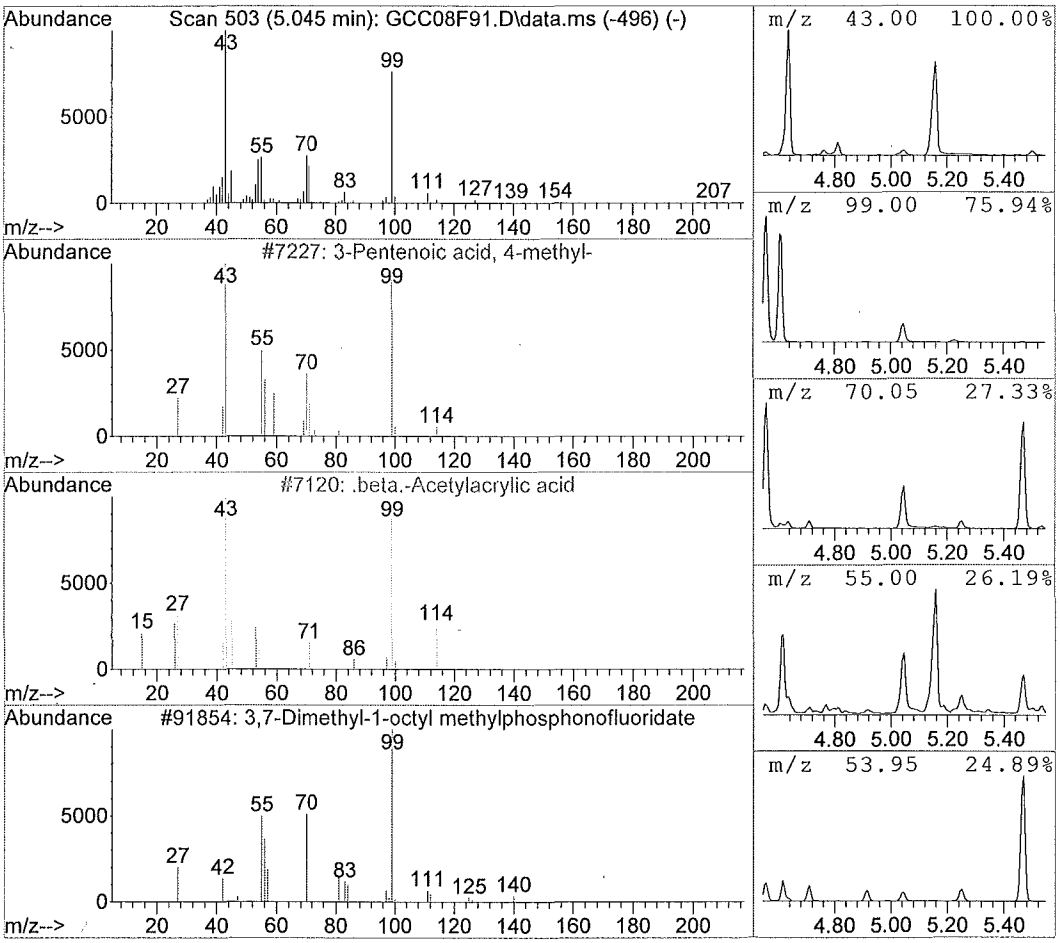
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC08F91.D Vial: 7
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.05	8.02 ug/ml	860789	1,4-Dichlorobenzene-d4	2146406

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Pentenoic acid, 4-methyl-	7227	000504-85-8	40.00
2	.beta.-Acetylacrylic acid	7120	004743-82-2	40.00
3	3,7-Dimethyl-1-octyl methylphosphon	91854	345260-82-4	38.00
4	1-Pyrrolidinecarboxaldehyde	3506	003760-54-1	38.00
5	1H-1,2,3,4-Tetrazol-5-amine, 1-meth	3436	1000338-04-0	37.00

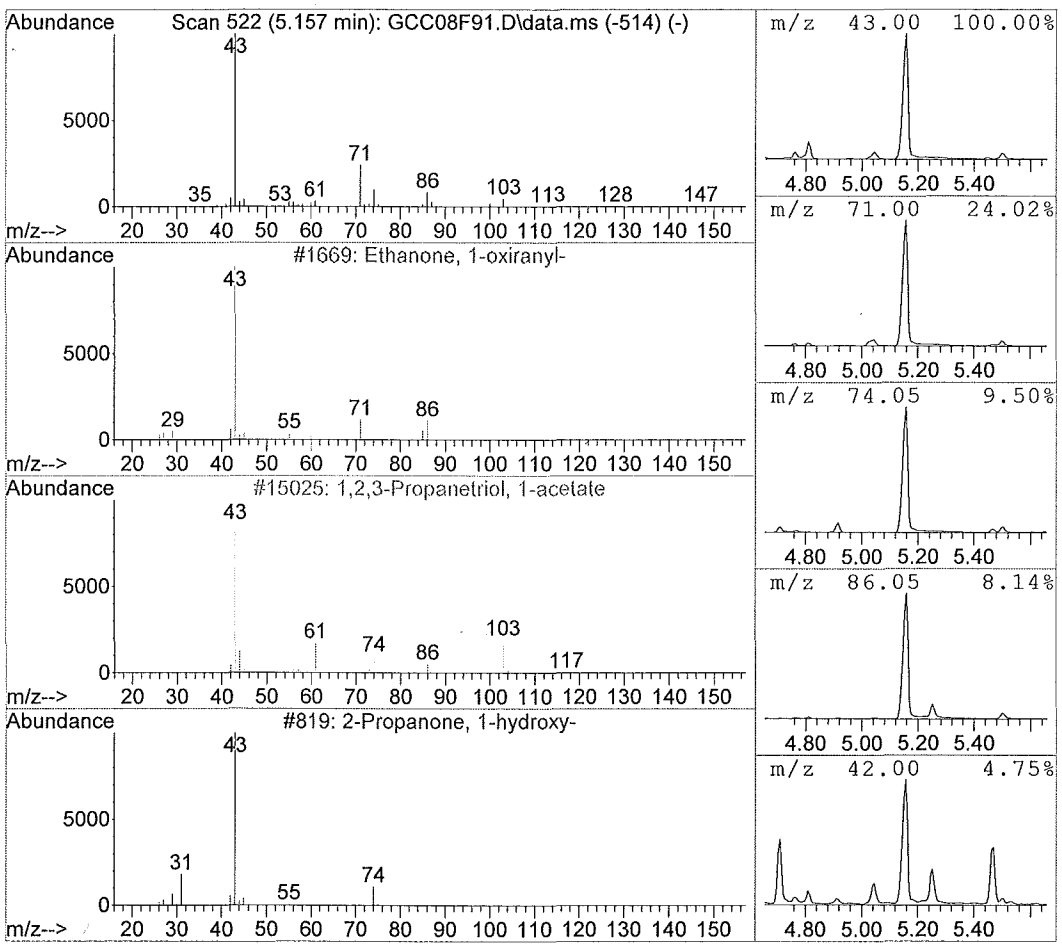


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC08F91.D Vial: 7
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.16	59.62 ug/ml	6398314	1,4-Dichlorobenzene-d4	2146406

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanone, 1-oxiranyl-	1669	004401-11-0	38.00
2	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	32.00
3	2-Propanone, 1-hydroxy-	819	000116-09-6	27.00
4	Butanoic acid, 3-hydroxy-, methyl e	8724	001487-49-6	12.00
5	Diacetyl sulphide	8654	003232-39-1	10.00

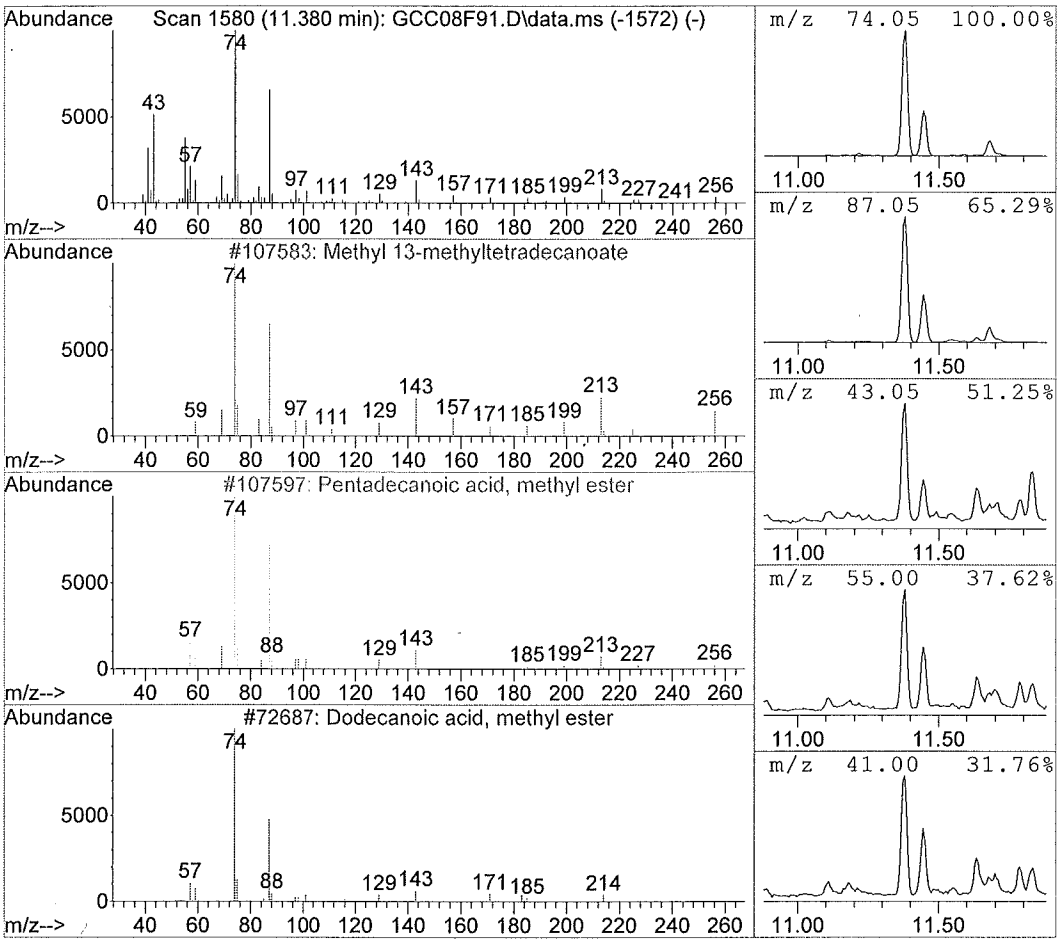


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC08F91.D Vial: 7
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.38	6.69 ug/ml	989069	Phenanthrene-d10	2955670

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methyl 13-methyltetradecanoate	107583	1000336-31-4	97.00
2	Pentadecanoic acid, methyl ester	107597	007132-64-1	93.00
3	Dodecanoic acid, methyl ester	72687	000111-82-0	90.00
4	Tridecanoic acid, 12-methyl-, methy	95898	005129-58-8	90.00
5	Tridecanoic acid, methyl ester	84485	001731-88-0	87.00

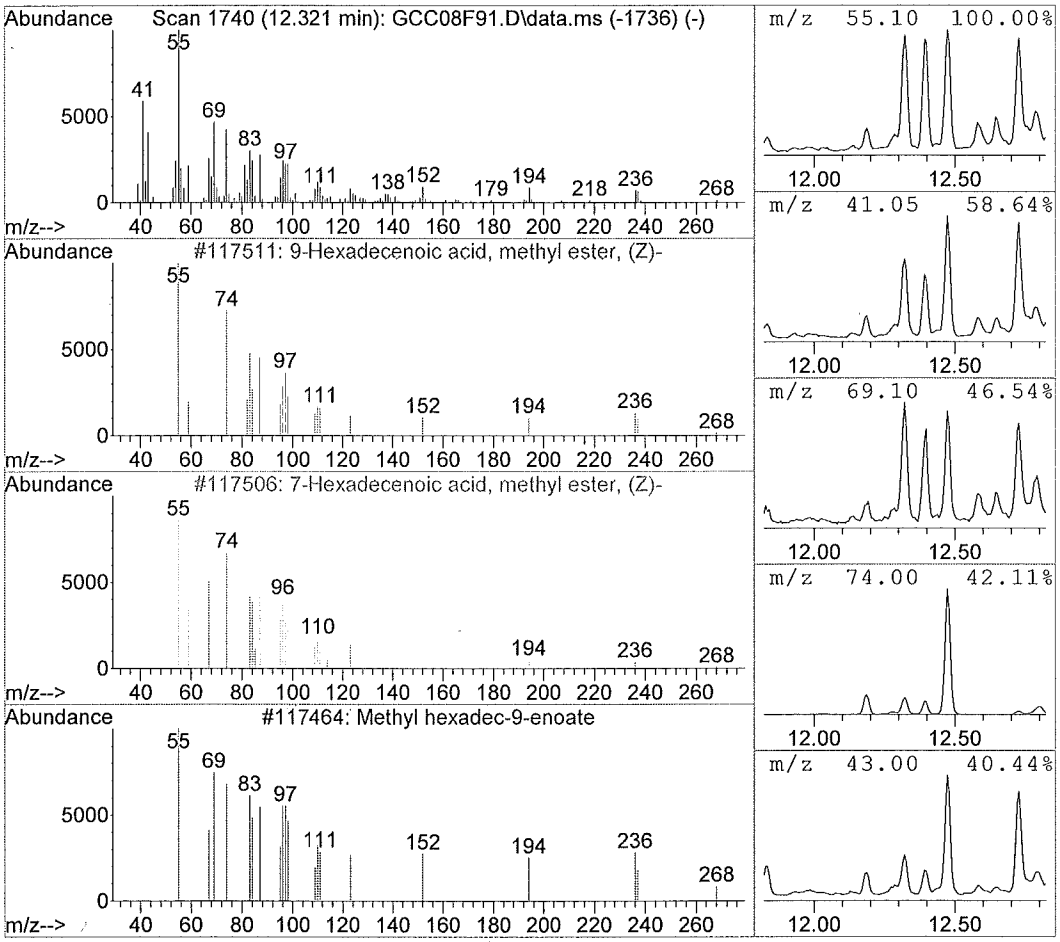


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC08F91.D Vial: 7
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.32	7.26 ug/ml	1073064	Phenanthrene-d10	2955670

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Hexadecenoic acid, methyl ester,	117511	001120-25-8	97.00
2	7-Hexadecenoic acid, methyl ester,	117506	056875-67-3	90.00
3	Methyl hexadec-9-enoate	117464	010030-74-7	87.00
4	Methyl myristoleate	94118	056219-06-8	86.00
5	11-Hexadecenoic acid, methyl ester	117489	055000-42-5	83.00

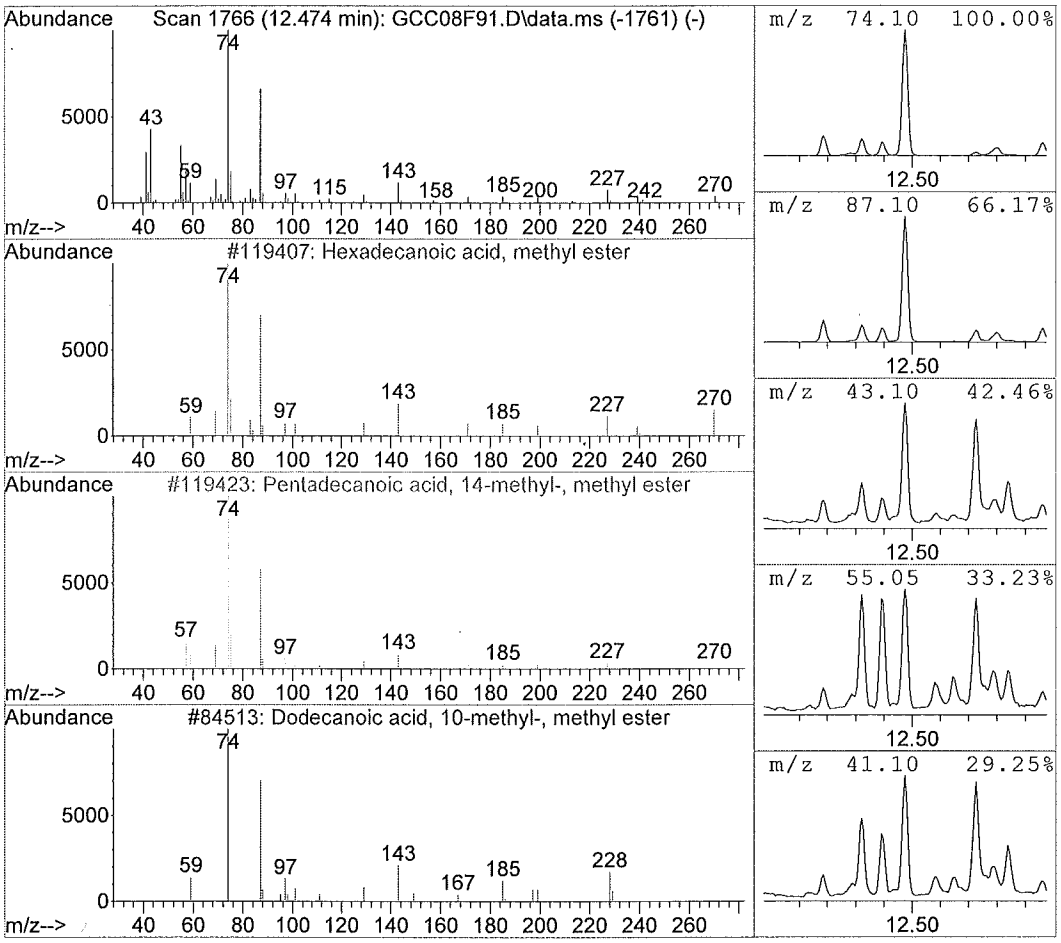


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC08F91.D Vial: 7
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.47	11.96 ug/ml	1767631	Phenanthrene-d10	2955670

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, methyl ester	119407	000112-39-0	97.00
2	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	97.00
3	Dodecanoic acid, 10-methyl-, methyl	84513	005129-65-7	90.00
4	Methyl tetradecanoate	95860	000124-10-7	90.00
5	Tridecanoic acid, 12-methyl-, methy	95899	005129-58-8	90.00



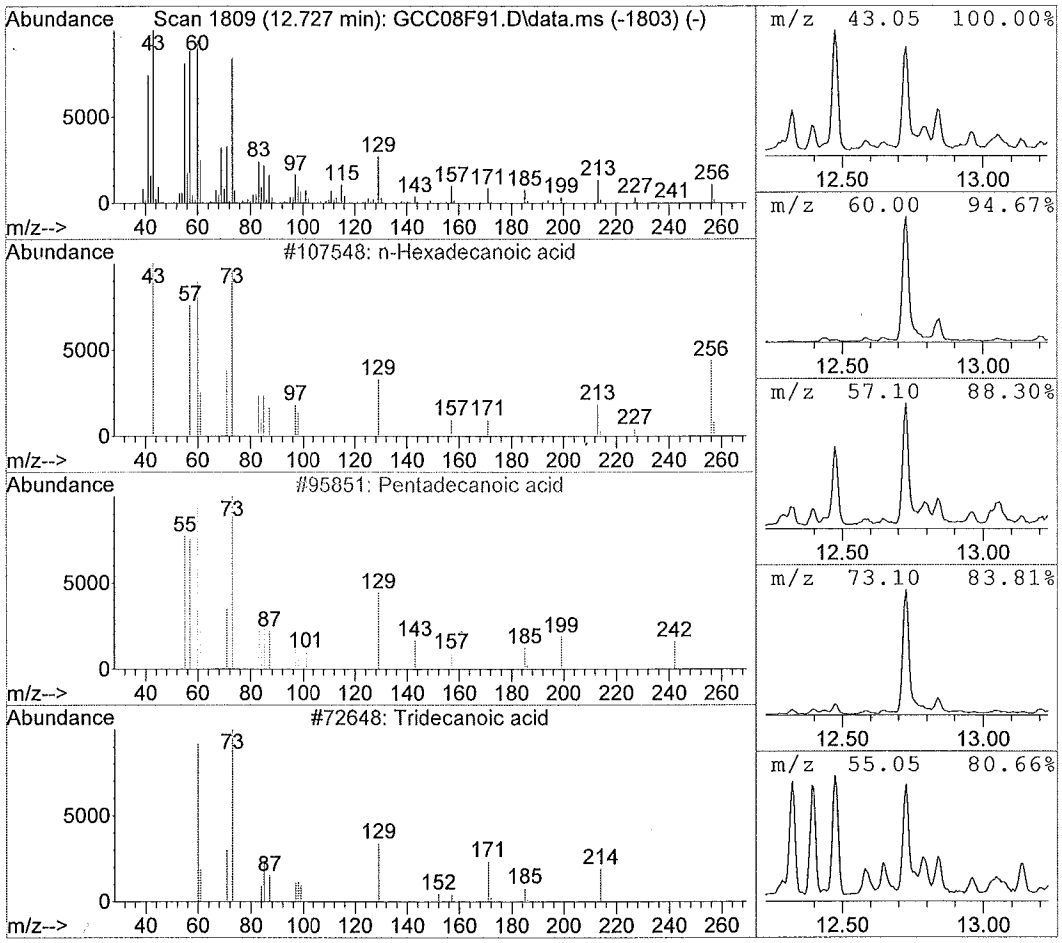
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC08F91.D Vial: 7
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.73	11.09 ug/ml	1639028	Phenanthrene-d10	2955670

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107548	000057-10-3	99.00
2	Pentadecanoic acid	95851	001002-84-2	80.00
3	Tridecanoic acid	72648	000638-53-9	72.00
4	Dodecanoic acid, 1-methylethyl este	95885	010233-13-3	53.00
5	n-Decanoic acid	39471	000334-48-5	52.00



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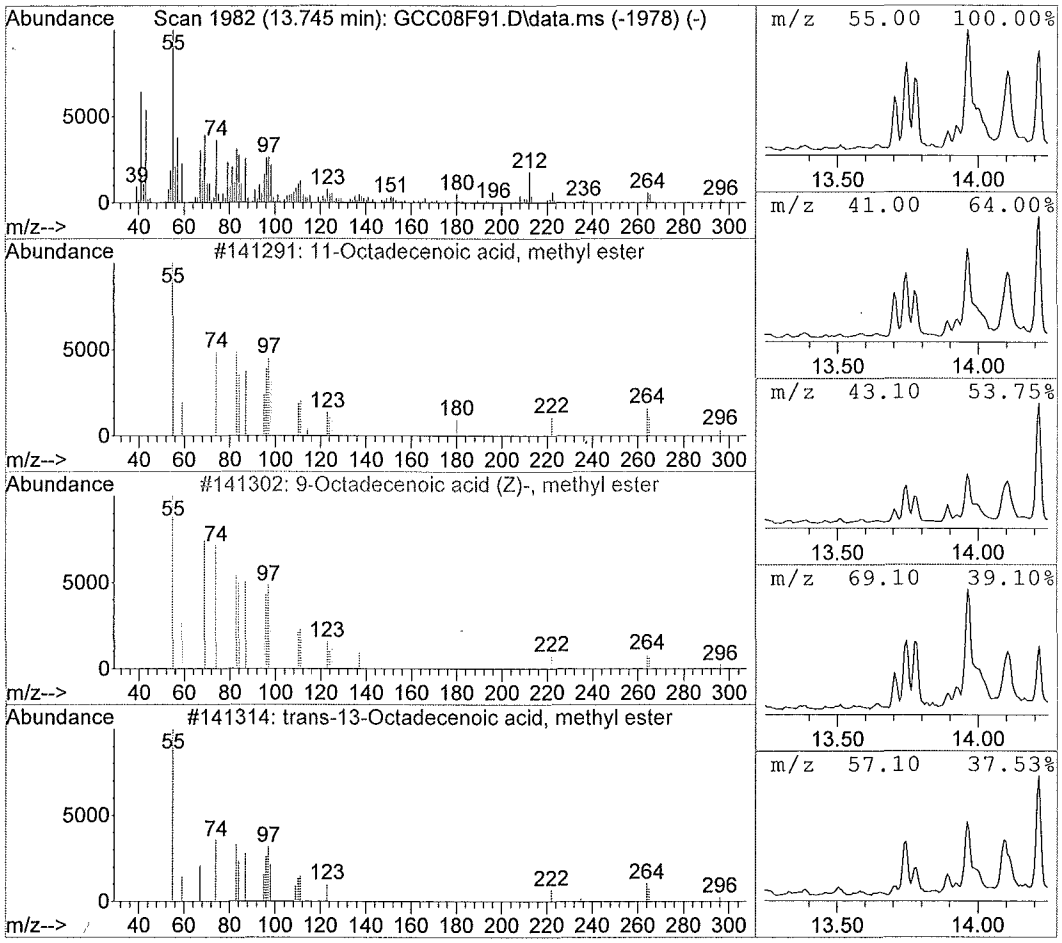
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.74	7.80 ug/ml	1411005	Chrysene-d12	3617530

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	11-Octadecenoic acid, methyl ester	141291	052380-33-3	99.00
2	9-Octadecenoic acid (Z)-, methyl es	141302	000112-62-9	99.00
3	trans-13-Octadecenoic acid, methyl	141314	1000333-61-3	99.00
4	cis-13-Octadecenoic acid, methyl es	141299	1000333-58-3	99.00
5	10-Octadecenoic acid, methyl ester	141285	013481-95-3	96.00

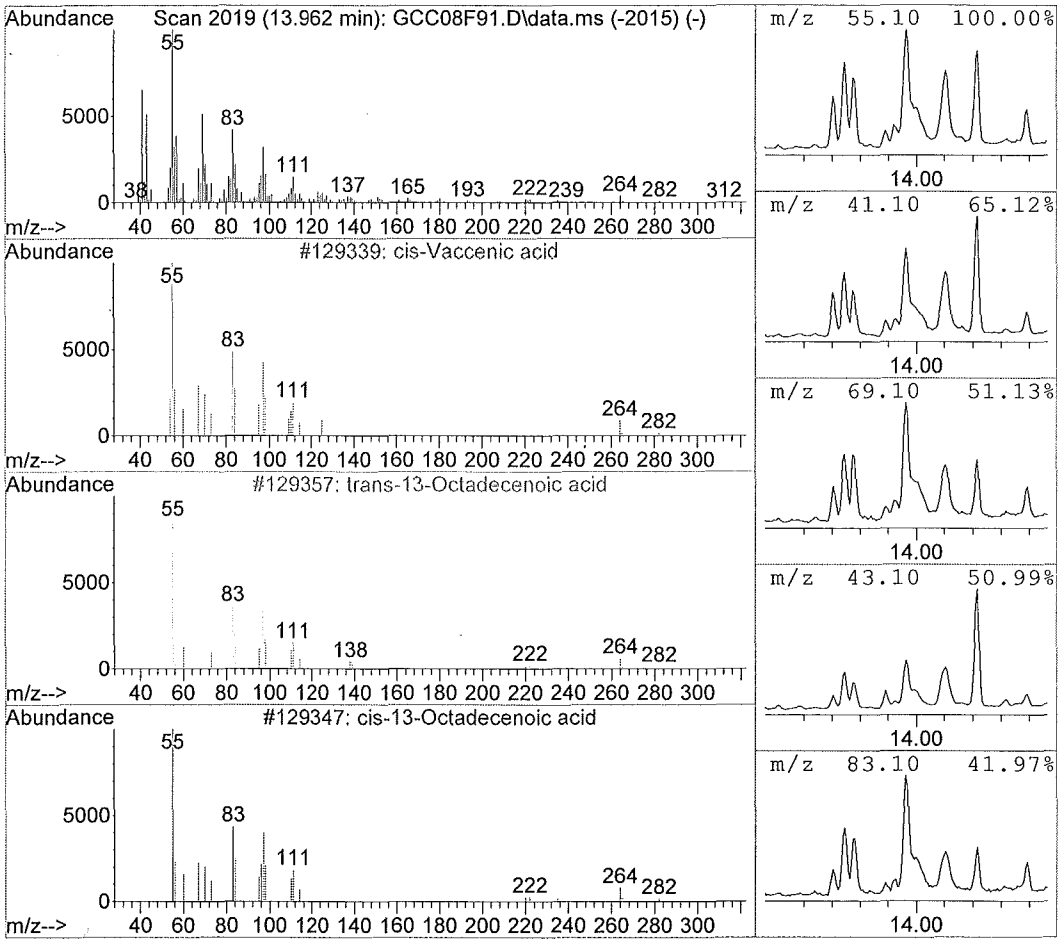


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC08F91.D Vial: 7
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.96	15.45 ug/ml	2794748	Chrysene-d12	3617530

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	cis-Vaccenic acid	129339	000506-17-2	99.00
2	trans-13-Octadecenoic acid	129357	000693-71-0	98.00
3	cis-13-Octadecenoic acid	129347	013126-39-1	97.00
4	9-Octadecenoic acid, (E)-	129353	000112-79-8	91.00
5	Oleic Acid	129335	000112-80-1	89.00

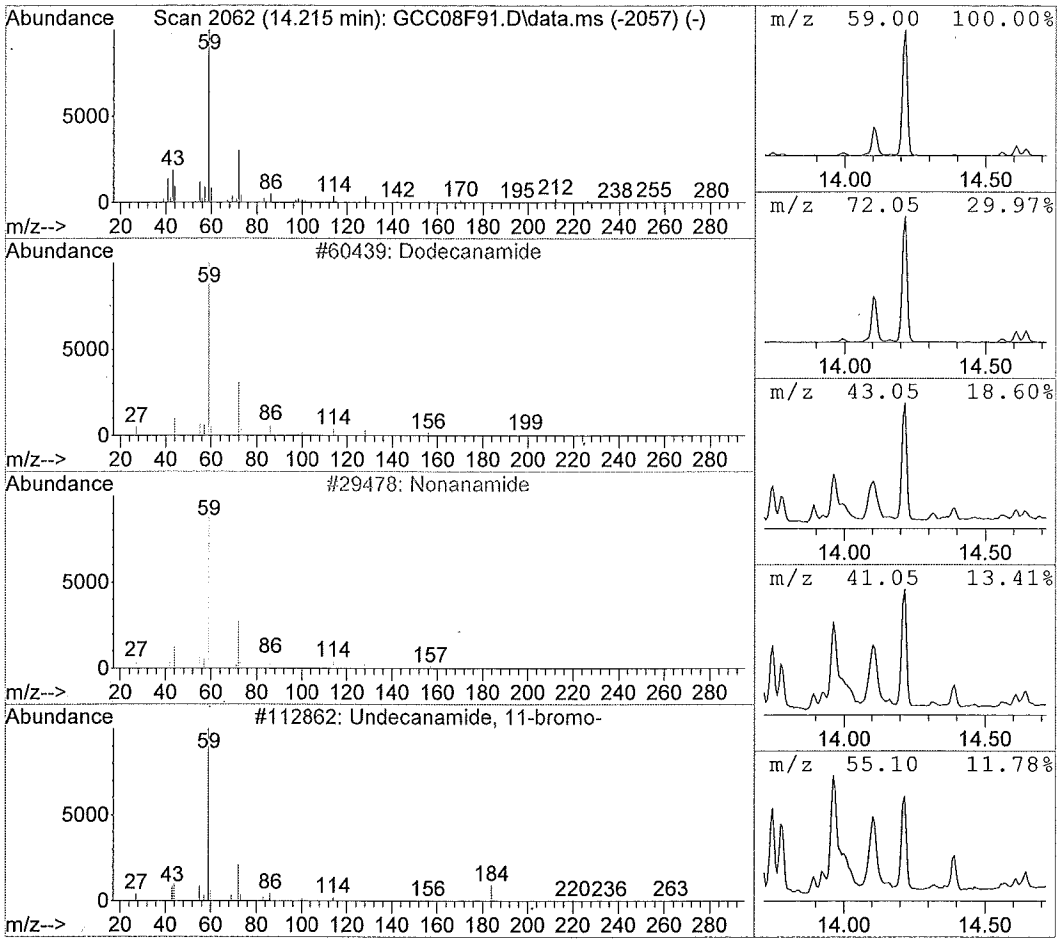


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC08F91.D Vial: 7
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.22	15.59 ug/ml	2820761	Chrysene-d12	3617530

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	91.00
2	Nonanamide	29478	001120-07-6	83.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00
5	Pentanamide	4064	000626-97-1	59.00

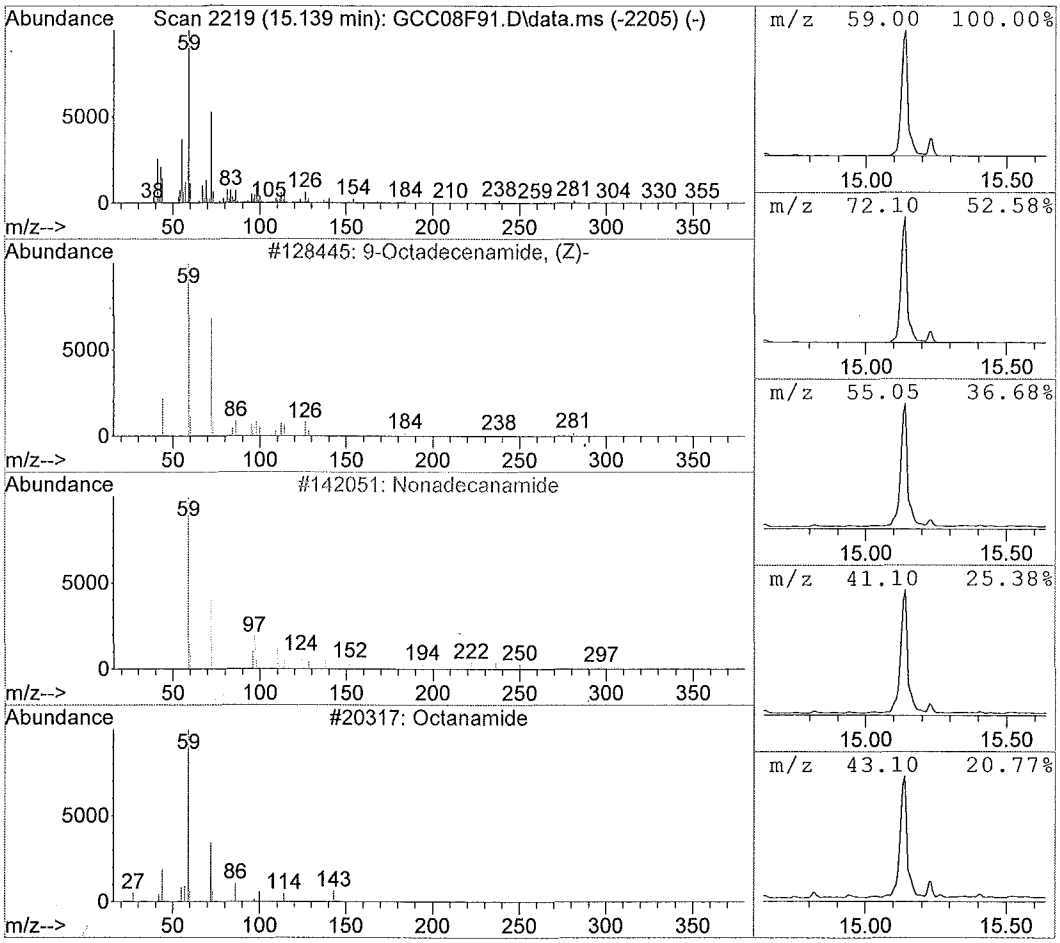


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC08F91.D Vial: 7
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.14	112.65 ug/ml	20376560	Chrysene-d12	3617530

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Nonadecanamide	142051	058185-32-3	72.00
3	Octanamide	20317	000629-01-6	72.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	59.00
5	Hexadecanamide	106565	000629-54-9	56.00

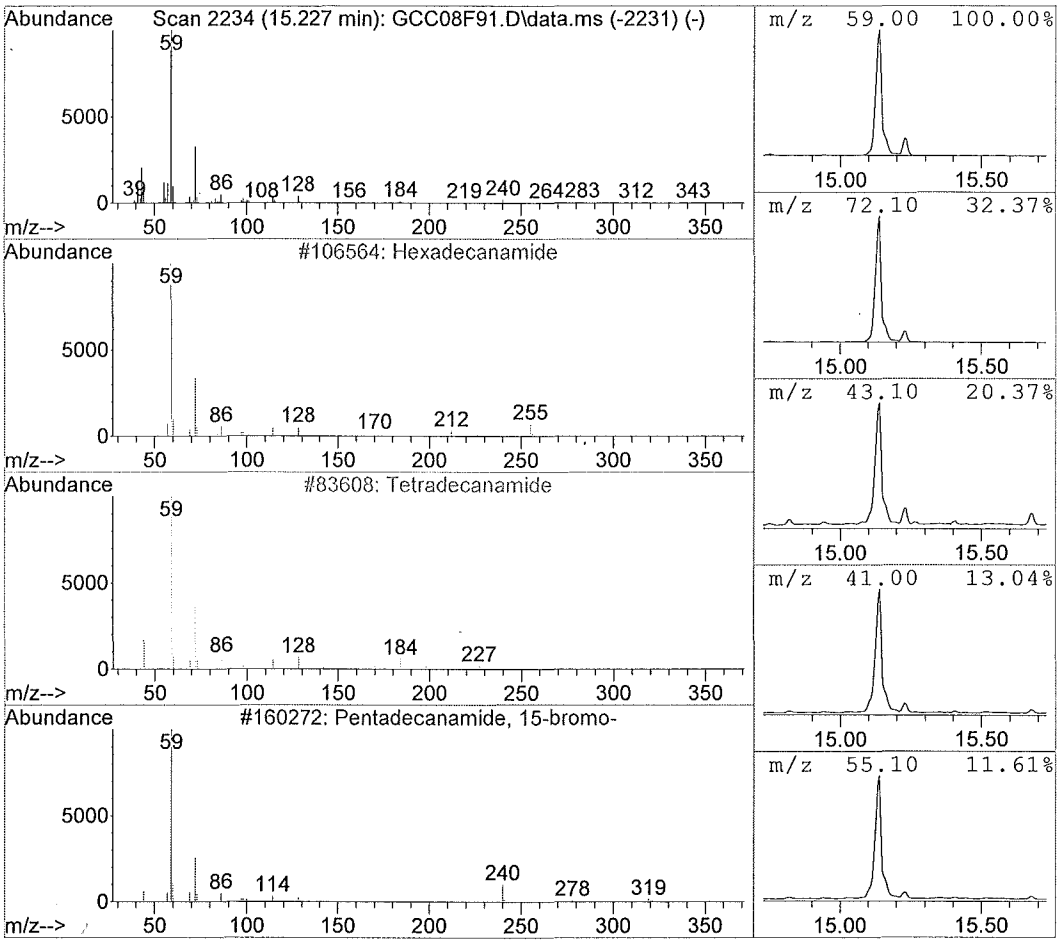


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC08F91.D Vial: 7
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.23	6.23 ug/ml	1126835	Chrysene-d12	3617530

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	90.00
2	Tetradecanamide	83608	000638-58-4	78.00
3	Pentadecanamide, 15-bromo-	160272	1000163-86-1	78.00
4	Octadecanamide	130204	000124-26-5	78.00
5	Dodecanamide	60439	001120-16-7	64.00



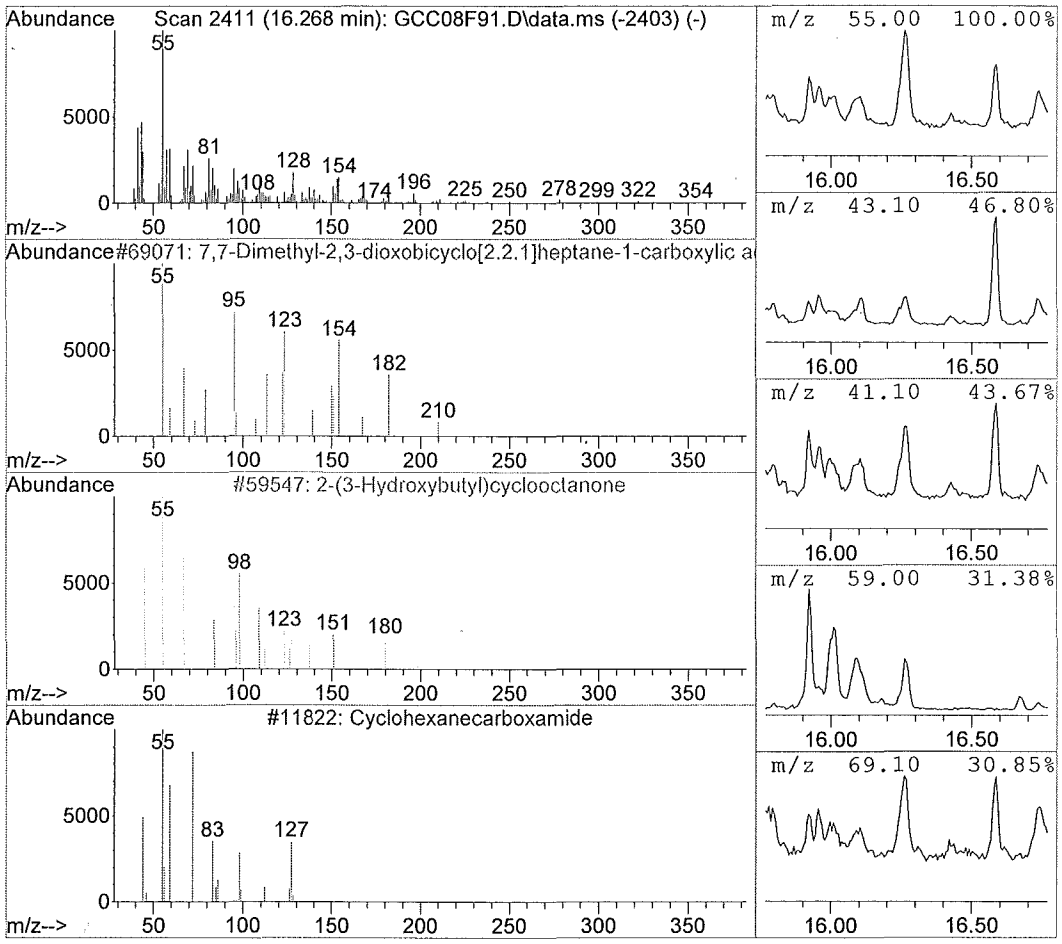
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC08F91.D Vial: 7
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.27	6.65 ug/ml	1202316	Chrysene-d12	3617530

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7,7-Dimethyl-2,3-dioxobicyclo[2.2.1	69071	040724-68-3	25.00
2	2-(3-Hydroxybutyl)cyclooctanone	59547	110288-21-6	15.00
3	Cyclohexanecarboxamide	11822	001122-56-1	14.00
4	Tridecanedial	71064	063521-76-6	14.00
5	4-Pentenoic acid, methyl ester	7255	000818-57-5	14.00



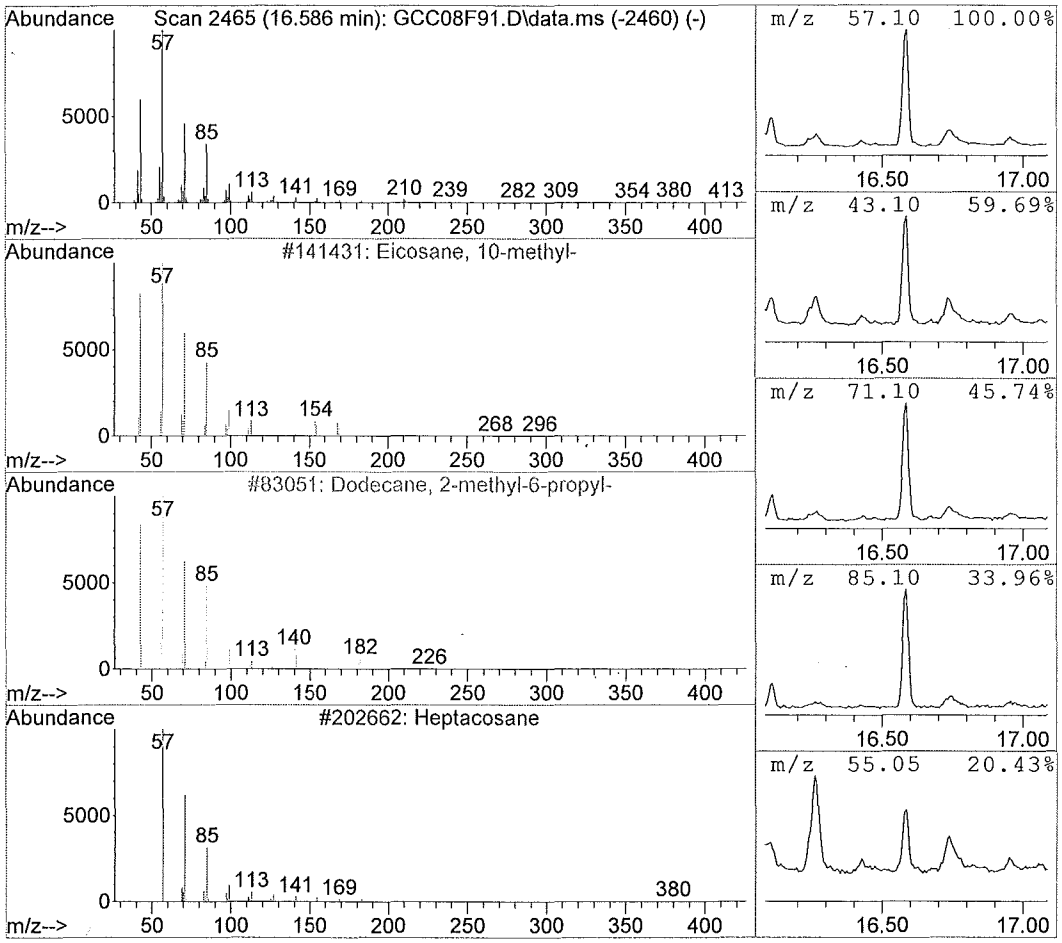
Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC08F91.D Vial: 7
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.59	6.05 ug/ml	1094168	Chrysene-d12	3617530

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane, 10-methyl-	141431	054833-23-7	93.00
2	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	93.00
3	Heptacosane	202662	000593-49-7	91.00
4	Hexacosane	194493	000630-01-3	87.00
5	Heptadecane, 9-octyl-	185535	007225-64-1	87.00

BA

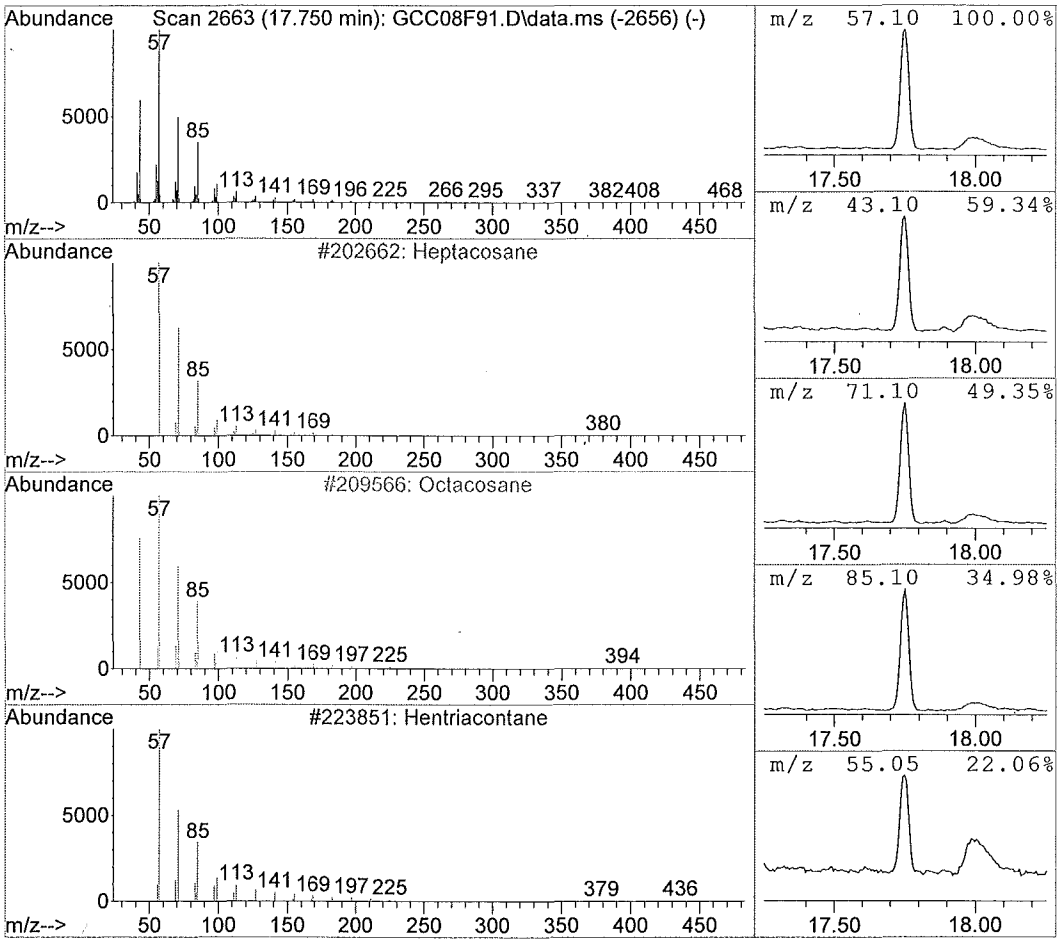


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC08F91.D Vial: 7
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.75	21.91 ug/ml	2530834	Perylene-d12	2309961

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	91.00
2	Octacosane	209566	000630-02-4	91.00
3	Hentriacontane	223851	000630-04-6	91.00
4	Hexacosane	194494	000630-01-3	91.00
5	Dodecane, 4,9-dipropyl-	105901	003054-63-5	87.00

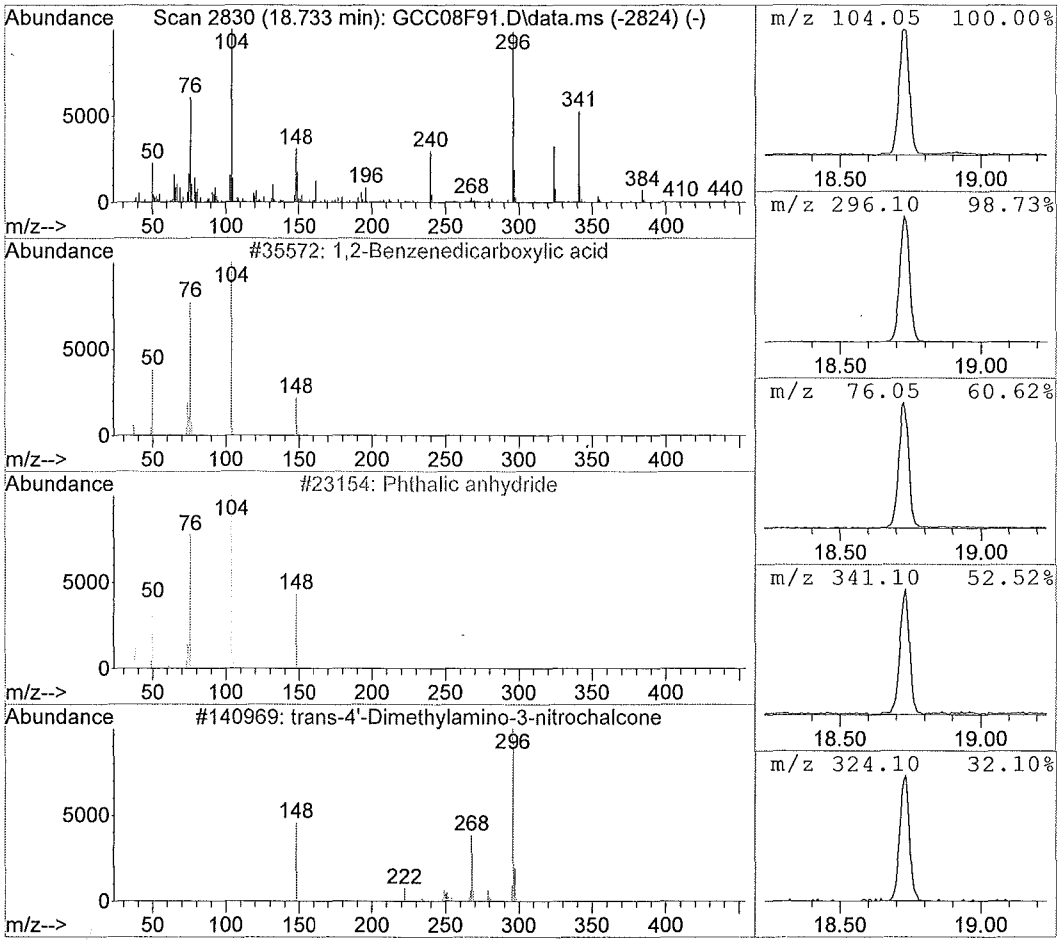


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC08F91.D Vial: 7
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.73	8.54 ug/ml	985943	Perylene-d12	2309961

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Benzenedicarboxylic acid	35572	000088-99-3	27.00
2	Phthalic anhydride	23154	000085-44-9	16.00
3	trans-4'-Dimethylamino-3-nitrochalc	140969	1000234-56-7	14.00
4	Indane-1,3(2H)-dione, 2-(2-methyl-3	175770	1000263-60-8	12.00
5	Spiro[isobenzofuran-1(3H)-one-3,2'-	63945	054103-04-7	12.00

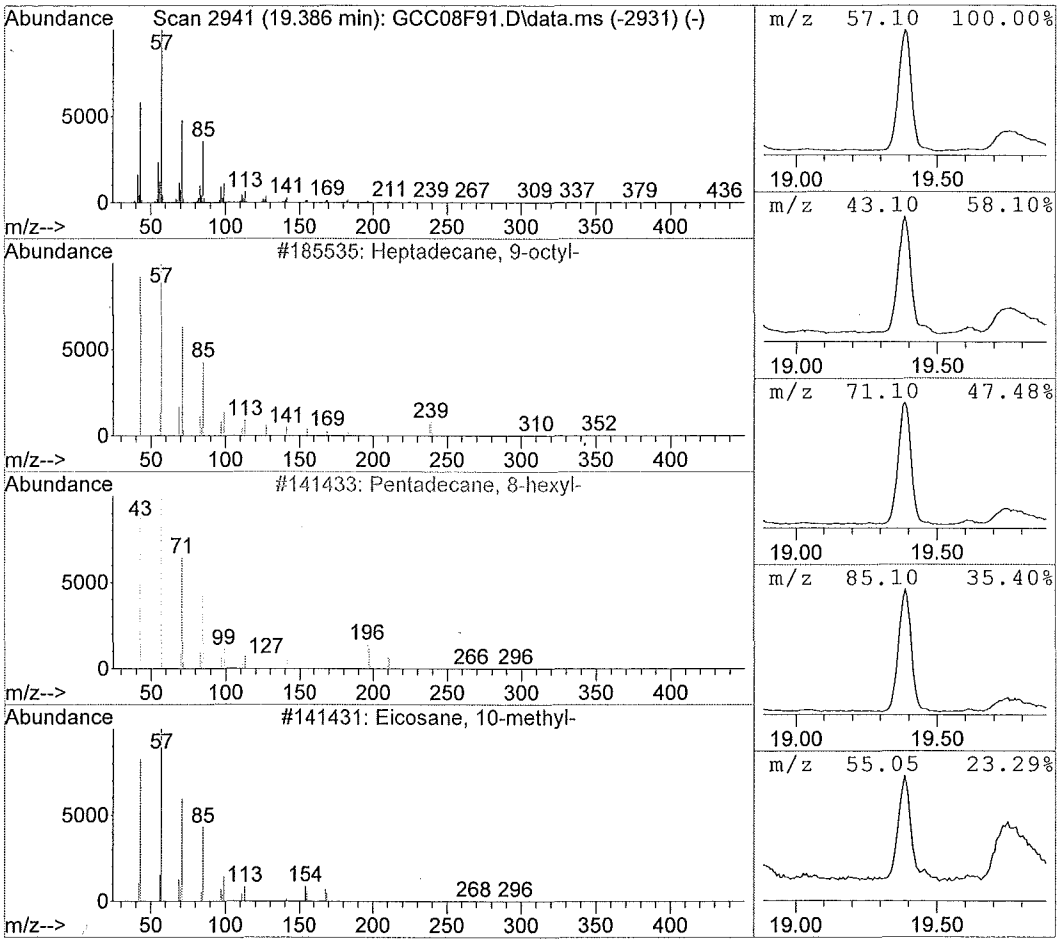


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC08F91.D Vial: 7
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.39	33.19 ug/ml	3832906	Perylene-d12	2309961

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptadecane, 9-octyl-	185535	007225-64-1	93.00
2	Pentadecane, 8-hexyl-	141433	013475-75-7	93.00
3	Eicosane, 10-methyl-	141431	054833-23-7	91.00
4	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	91.00
5	1-Iodo-2-methylundecane	140553	073105-67-6	90.00

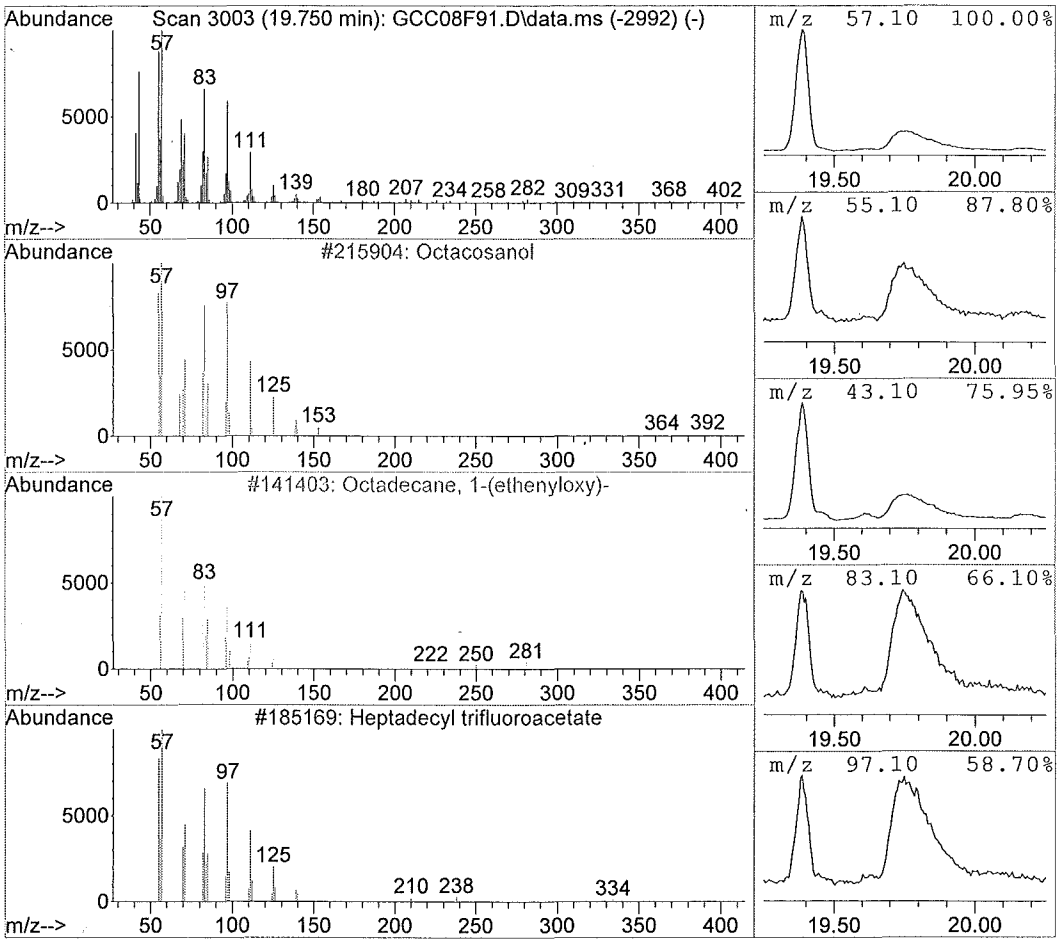


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC08F91.D Vial: 7
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.75	26.99 ug/ml	3117796	Perylene-d12	2309961

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octacosanol	215904	000557-61-9	94.00
2	Octadecane, 1-(ethenyloxy)-	141403	000930-02-9	93.00
3	Heptadecyl trifluoroacetate	185169	1000351-87-0	91.00
4	Heptafluorobutyric acid, hexadecyl	224102	006385-15-5	91.00
5	1-Heptacosanol	210517	002004-39-9	91.00



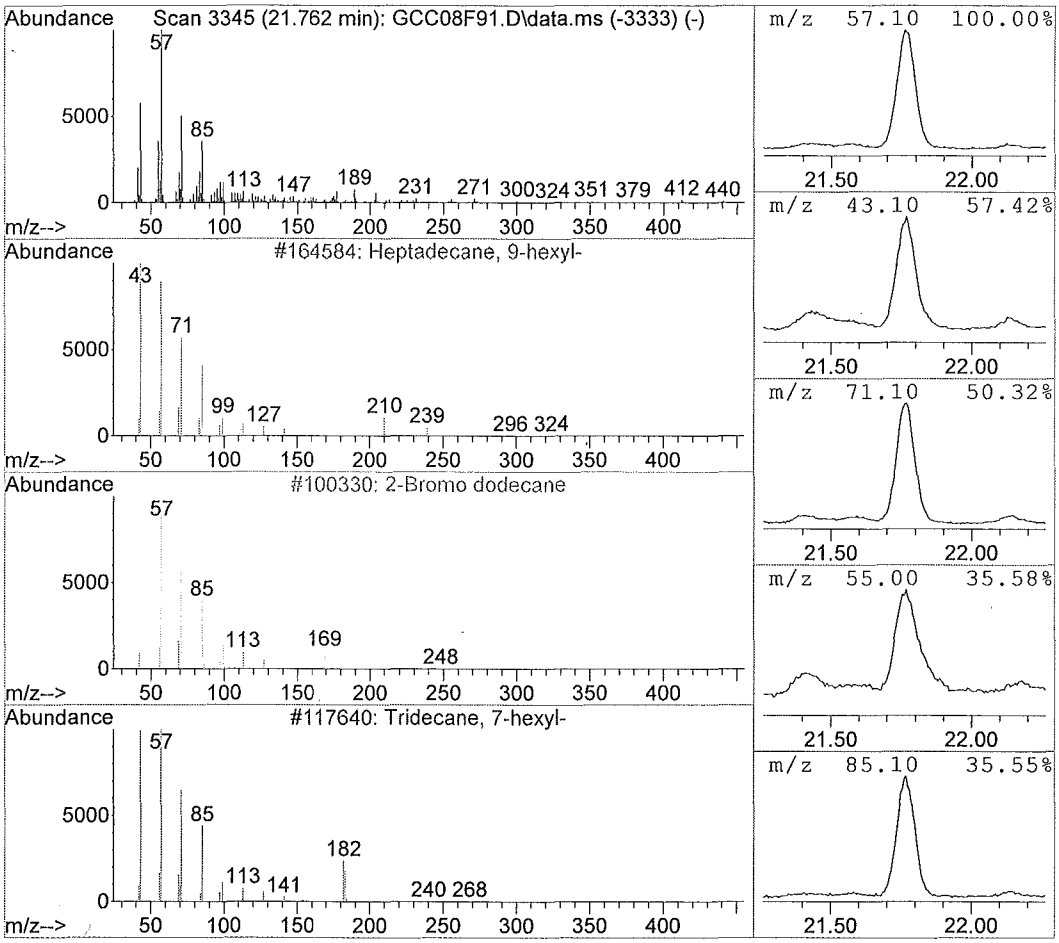
Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC08F91.D Vial: 7
Acq On : 06/24/2015 10:47 Operator: SY
Sample : 1515725011 F9M91 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.76	52.50 ug/ml	6063551	Perylene-d12	2309961

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptadecane, 9-hexyl-	164584	055124-79-3	91.00
2	2-Bromo dodecane	100330	013187-99-0	90.00
3	Tridecane, 7-hexyl-	117640	007225-66-3	87.00
4	Hentriacontane	223852	000630-04-6	87.00
5	Pentacosane	185533	000629-99-2	87.00

BA



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M92

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725014

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCC09F92

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M92

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725014

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCC09F92

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M92

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725014
Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCC09F92
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 12. Decanted: (Y/N) N Date Received: 06/05/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015
GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Propanone, 1-hydroxy-	2.18	190	J
02	814-78-8	3-Buten-2-one, 3-methyl-	2.22	370	JN
03		Unknown 3-Penten-2-ol	2.32	340	J
04		Unknown Ethanamine, 2-(methylthio)-	2.39	280	J
05		Unknown 2-Pentanone, 4-hydroxy-	3.35	860	JB
06		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.56	17000	JB
07		Unknown 1,3-Dioxolane-2-methanol, 2,4-dimethyl-	4.12	440	J
08		Unknown Hexane, 2-bromo-	4.23	1000	J
09		Unknown 1H-Pyrrole-2,5-dione	4.32	740	J
10		Unknown 4H-Imidazol-4-one, 2-amino-1,5-dihydro-	5.05	350	J
11		Unknown 1,2,3-Propanetriol, 1-acetate	5.16	2200	J
12	1000336-31-4	Methyl 13-methyltetradecanoate	11.38	210	JN
13	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	12.32	320	JN
14	5129-60-2	Pentadecanoic acid, 14-methyl-, methyl ester	12.47	490	JN
15	57-10-3	n-Hexadecanoic acid	12.73	440	JN
16	112-62-9	9-Octadecenoic acid (Z)-, methyl ester	13.75	310	JN
17	2319-29-1	Decanamide-	14.21	510	JN
18	301-02-0	9-Octadecenamide, (Z)-	15.13	3500	JNB
19	629-54-9	Hexadecanamide	15.23	210	JNB
20		Unknown 6,7-Dioxabicyclo[3.2.2]nonane	16.27	250	J
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	5900	J

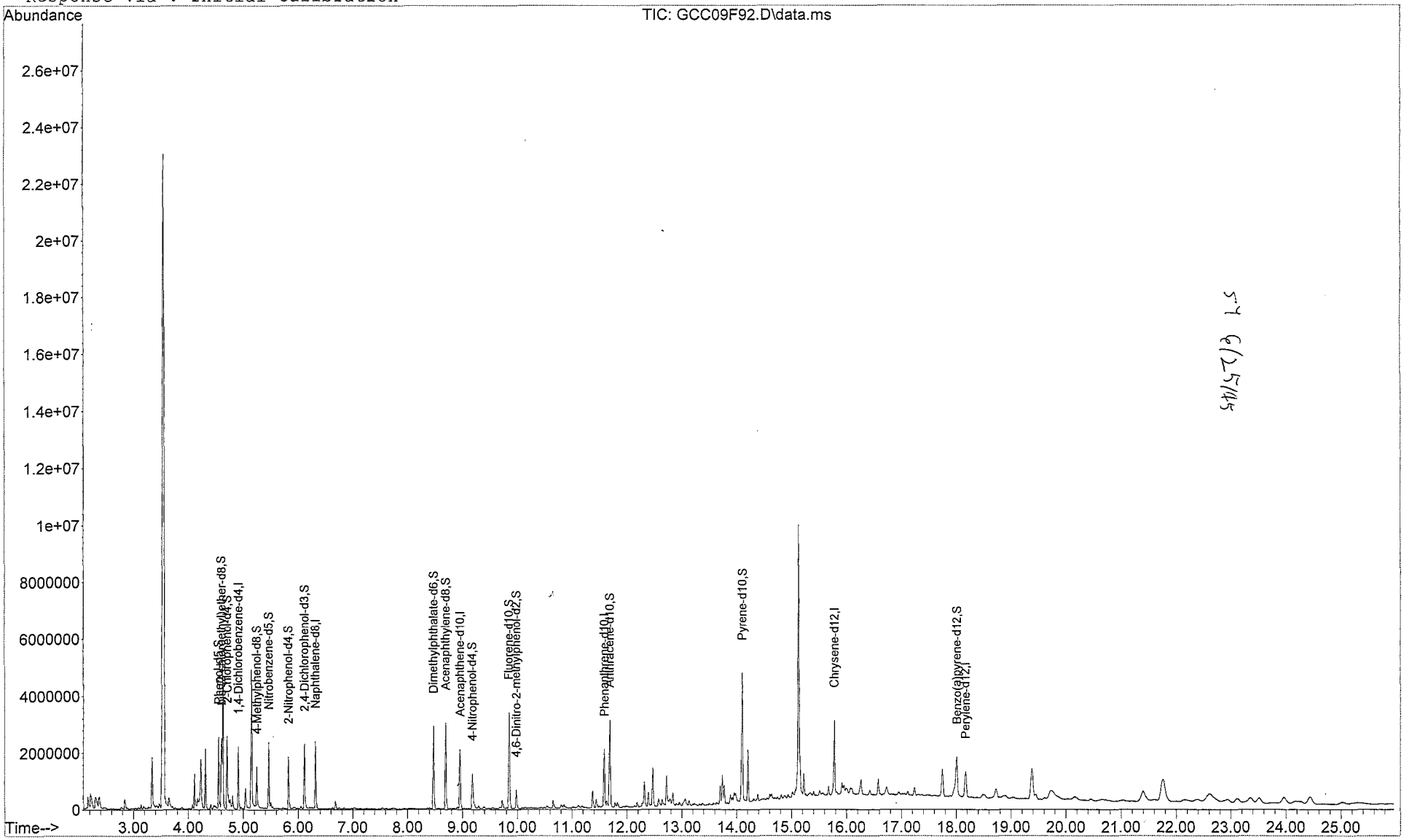
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 25 06:32:54 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 06:32:54 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.92	152	303503	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1164464	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	680465	20.00 ug/ml
59) Phenanthrene-d10	11.59	188	1145909	20.00 ug/ml
73) Chrysene-d12	15.79	240	1070435	20.00 ug/ml
81) Perylene-d12	18.18	264	691158	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.56	99	779151	29.500ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	522809	25.401ug/mL
7) 2-Chlorophenol-d4	4.71	132	641677	28.775ug/ml
13) 4-Methylphenol-d8	5.25	113	302251	17.110ug/mL
17) Nitrobenzene-d5	5.47	128	290410	28.389ug/ml
21) 2-Nitrophenol-d4	5.83	143	316706	29.291ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	534176	31.727ug/mL
28) 4-Chloroaniline-d4	6.42	131	890	0.048ug/mL
42) Dimethylphthalate-d6	8.48	166	1546042	36.233ug/mL
45) Acenaphthylene-d8	8.70	160	1798381	31.013ug/mL
50) 4-Nitrophenol-d4	9.19	143	327231	37.592ug/mL
57) Fluorene-d10	9.86	176	1298647	35.638ug/mL
61) 4,6-Dinitro-2-methylphenol	9.99	200	114207	14.042ug/mL
69) Anthracene-d10	11.69	188	1857445	30.566ug/mL
75) Pyrene-d10	14.11	212	1892770	35.432ug/mL
86) Benzo(a)pyrene-d12	18.02	264	914457	27.611ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 06:32:54 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) Acenaphthylene	0.00	152		Not Detected	
46) 3-Nitroaniline	0.00	138		Not Detected	
47) Acenaphthene	0.00	153		Not Detected	
48) 2,4-Dinitrophenol	0.00	184		Not Detected	
49) 4-Nitrophenol	0.00	109		Not Detected	
51) Dibenzofuran	0.00	168		Not Detected	
52) 2,4-Dinitrotoluene	0.00	165		Not Detected	
53) 2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54) Diethylphthalate	0.00	149		Not Detected	
55) 4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56) Fluorene	0.00	166		Not Detected	
58) 4-Nitroaniline	0.00	138		Not Detected	
60) 4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62) N-Nitrosodiphenylamine	0.00	169		Not Detected	
63) 4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64) Hexachlorobenzene	0.00	284		Not Detected	
65) Atrazine	0.00	200		Not Detected	
66) Pentachlorophenol	0.00	266		Not Detected	
67) Phenanthrene	0.00	178		Not Detected	
68) Anthracene	0.00	178		Not Detected	
70) Carbazole	0.00	167		Not Detected	
71) Di-n-butylphthalate	0.00	149		Not Detected	
72) Fluoranthene	0.00	202		Not Detected	
74) Pyrene	0.00	202		Not Detected	
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	0.00	228		Not Detected	
79) Chrysene	0.00	228		Not Detected	
80) Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	0.00	252		Not Detected	
84) Benzo(k)fluoranthene	0.00	252		Not Detected	
85) Benzo(a)pyrene	0.00	252		Not Detected	
87) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89) Benzo(g,h,i)perylene	0.00	276		Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

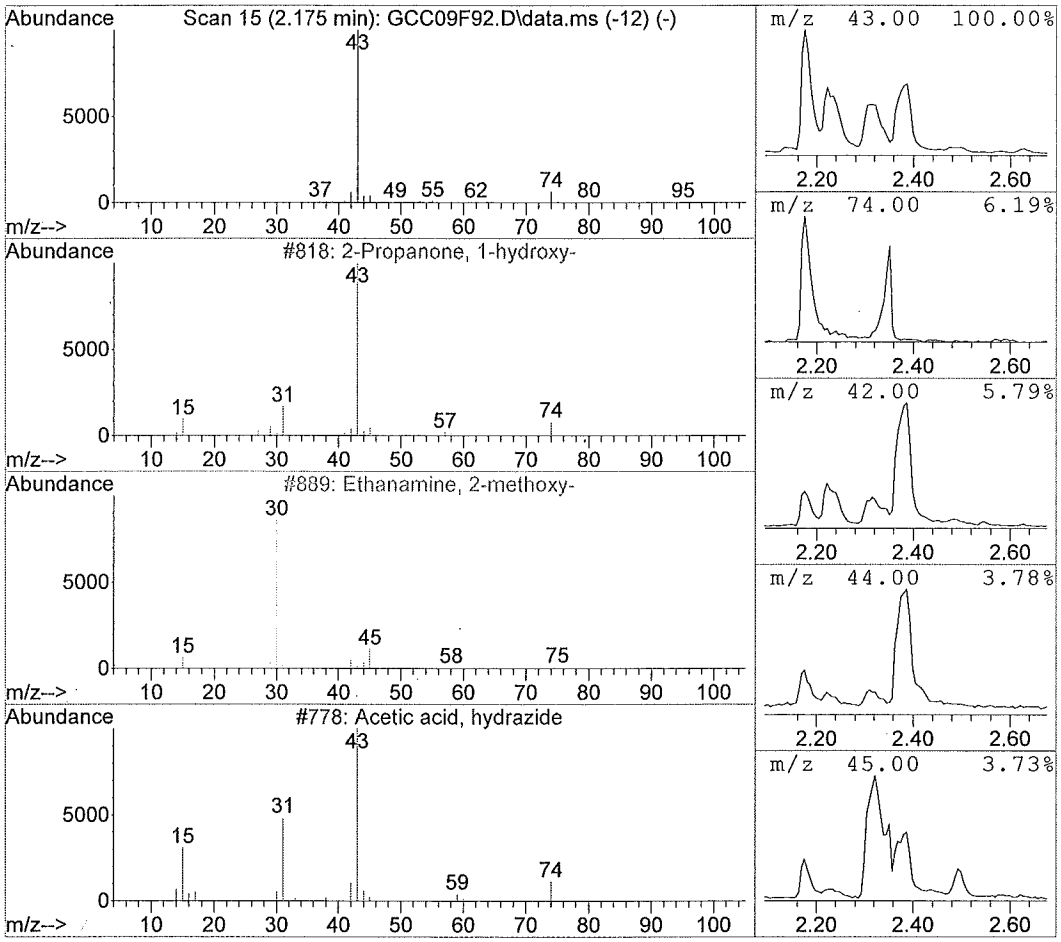
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.18	5.10 ug/ml	535856	1,4-Dichlorobenzene-d4	2101271

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-hydroxy-	818	000116-09-6	9.00
2	Ethanamine, 2-methoxy-	889	000109-85-3	5.00
3	Acetic acid, hydrazide	778	001068-57-1	4.00
4	Hydrogen azide	70	007782-79-8	4.00
5	1-Propanol, 2-methyl-	855	000078-83-1	3.00

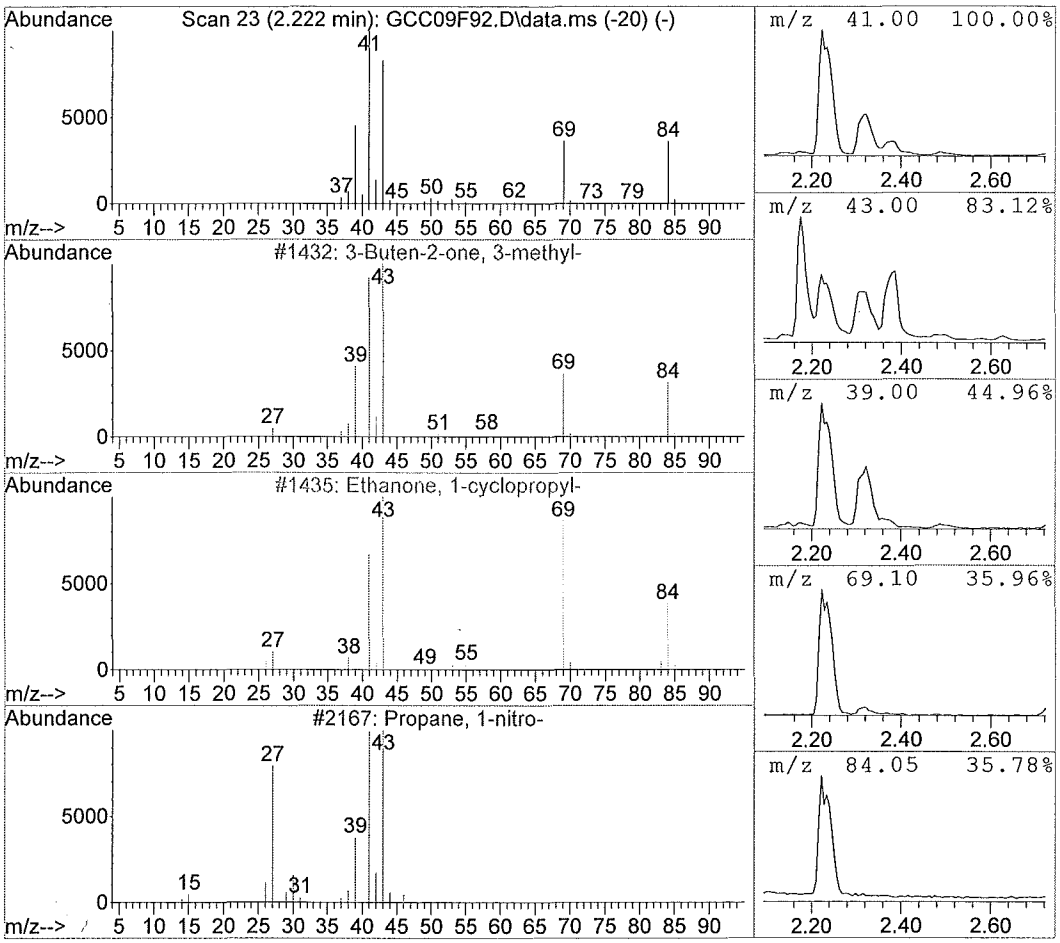


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.22	9.72 ug/ml	1021400	1,4-Dichlorobenzene-d4	2101271

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Buten-2-one, 3-methyl-	1432	000814-78-8	91.00
2	Ethanone, 1-cyclopropyl-	1435	000765-43-5	49.00
3	Propane, 1-nitro-	2167	000108-03-2	38.00
4	2-Butenal, (E)-	532	000123-73-9	33.00
5	Dicyclopropyl carbinol	6505	014300-33-5	33.00

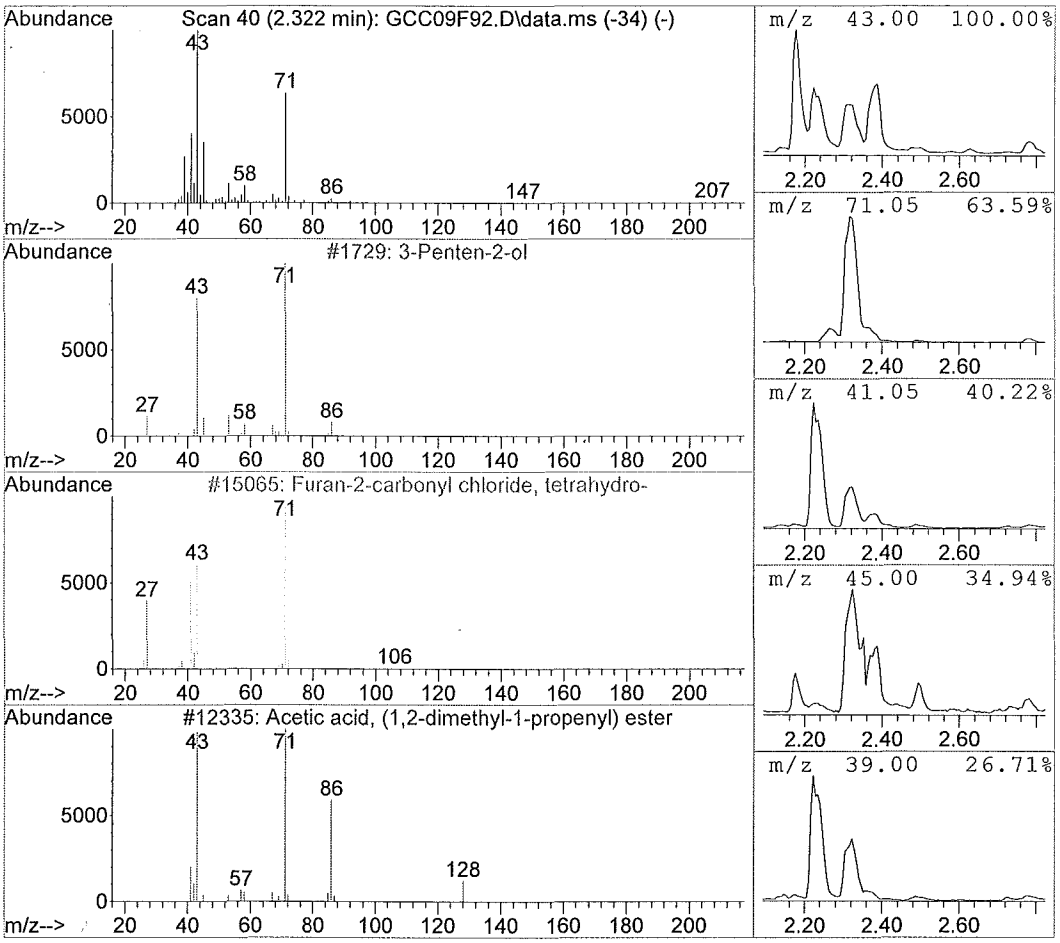


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.32	9.12 ug/ml	957993	1,4-Dichlorobenzene-d4	2101271

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Penten-2-ol	1729	001569-50-2	50.00
2	Furan-2-carbonyl chloride, tetrahyd	15065	052449-98-6	43.00
3	Acetic acid, (1,2-dimethyl-1-propen	12335	003814-41-3	42.00
4	Pentane, 2,2'-oxybis-	29633	056762-00-6	42.00
5	Ethanedioic acid, bis(3-methylbutyl	85787	002051-00-5	40.00

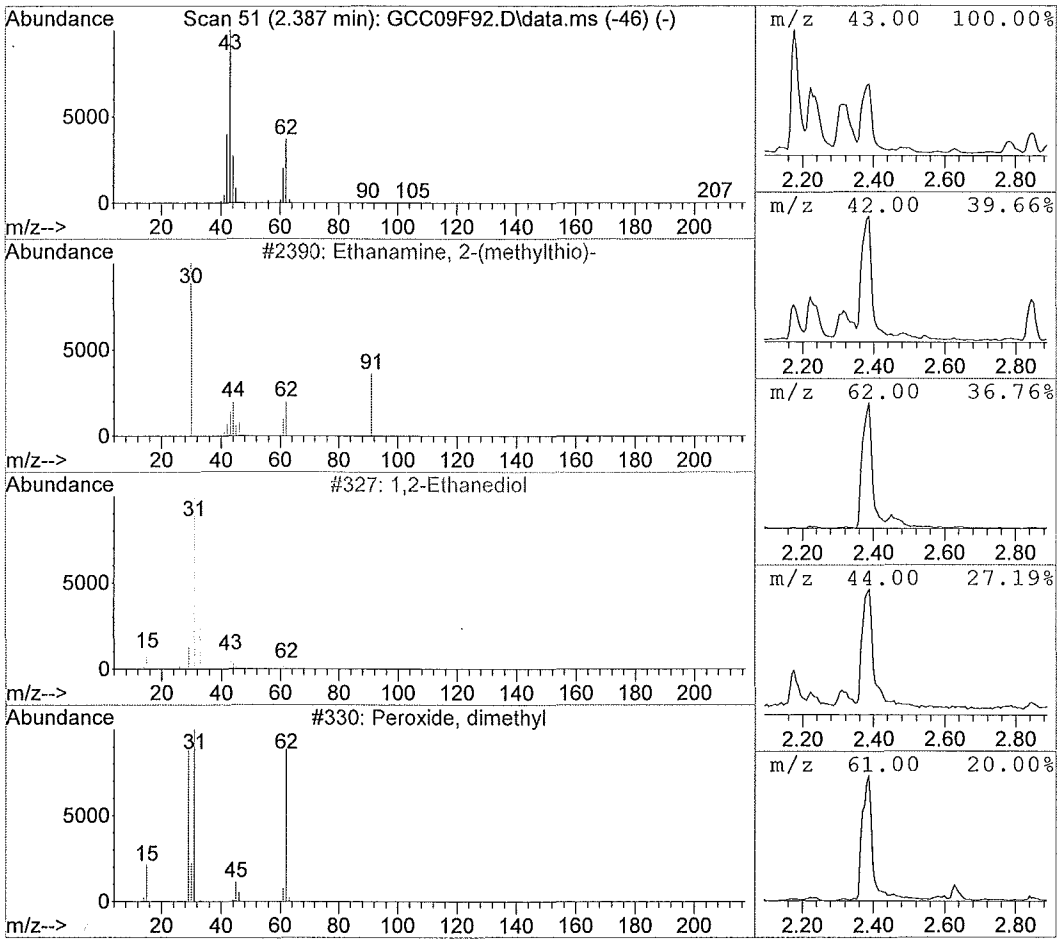


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.39	7.58 ug/ml	795986	1,4-Dichlorobenzene-d4	2101271

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanamine, 2-(methylthio)-	2390	018542-42-2	9.00
2	1,2-Ethanediol	327	000107-21-1	7.00
3	Peroxide, dimethyl	330	000690-02-8	7.00
4	Ethanethiol	332	000075-08-1	5.00
5	Ethene, chloro-	323	000075-01-4	5.00



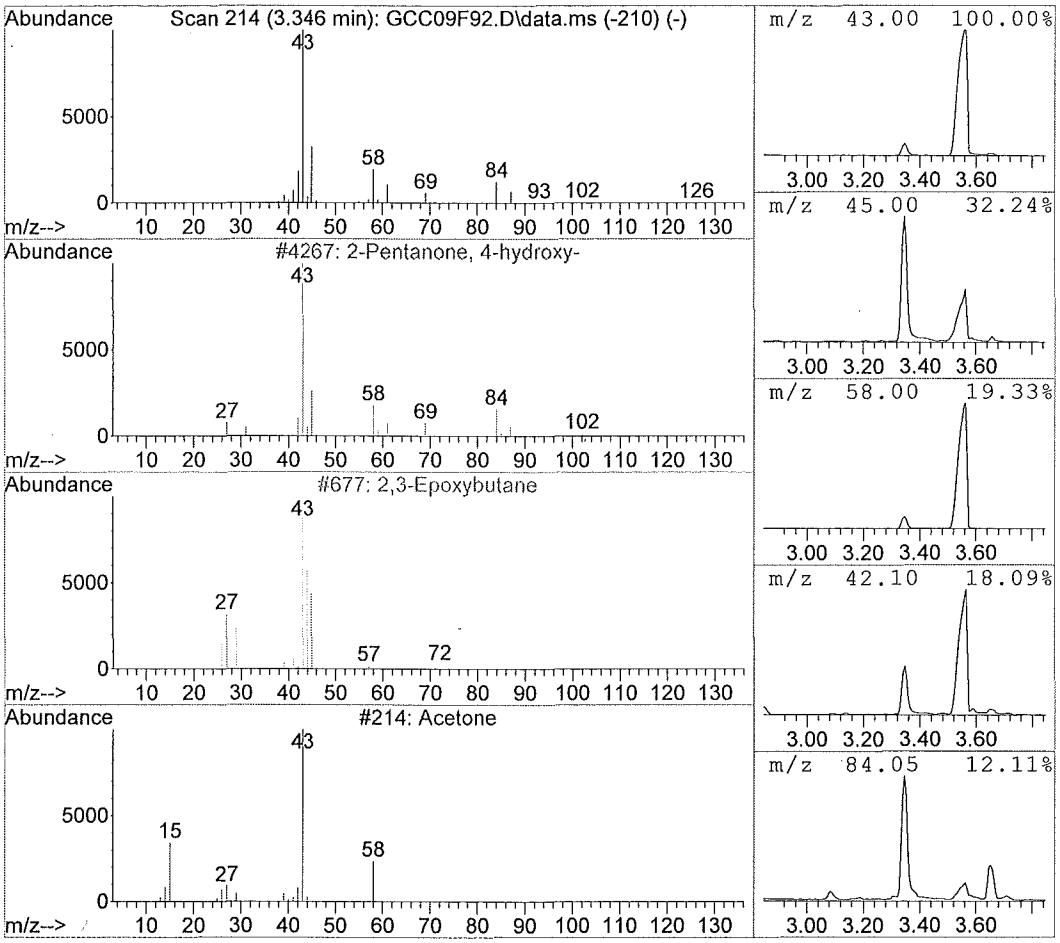
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.35	23.03 ug/ml	2419725	1,4-Dichlorobenzene-d4	2101271

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	43.00
2	2,3-Epoxybutane	677	003266-23-7	12.00
3	Acetone	214	000067-64-1	9.00
4	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	9.00
5	Nitric acid, nonyl ester	52650	020633-13-0	9.00

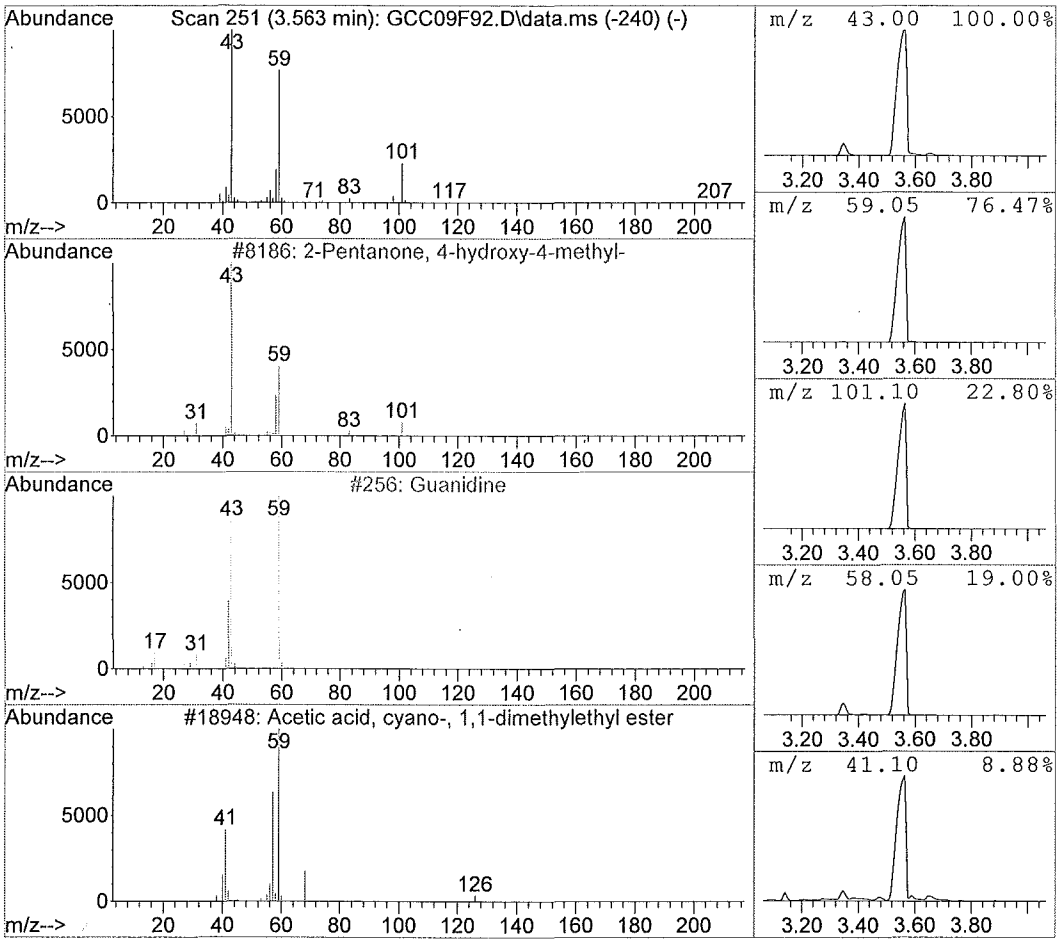


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.56	463.87 ug/ml	48735685	1,4-Dichlorobenzene-d4	2101271

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	59.00
2	Guanidine	256	000113-00-8	50.00
3	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	28.00
4	Morpholine, 4-methyl-	4076	000109-02-4	9.00
5	Butane, 1-ethoxy-	4425	000628-81-9	9.00



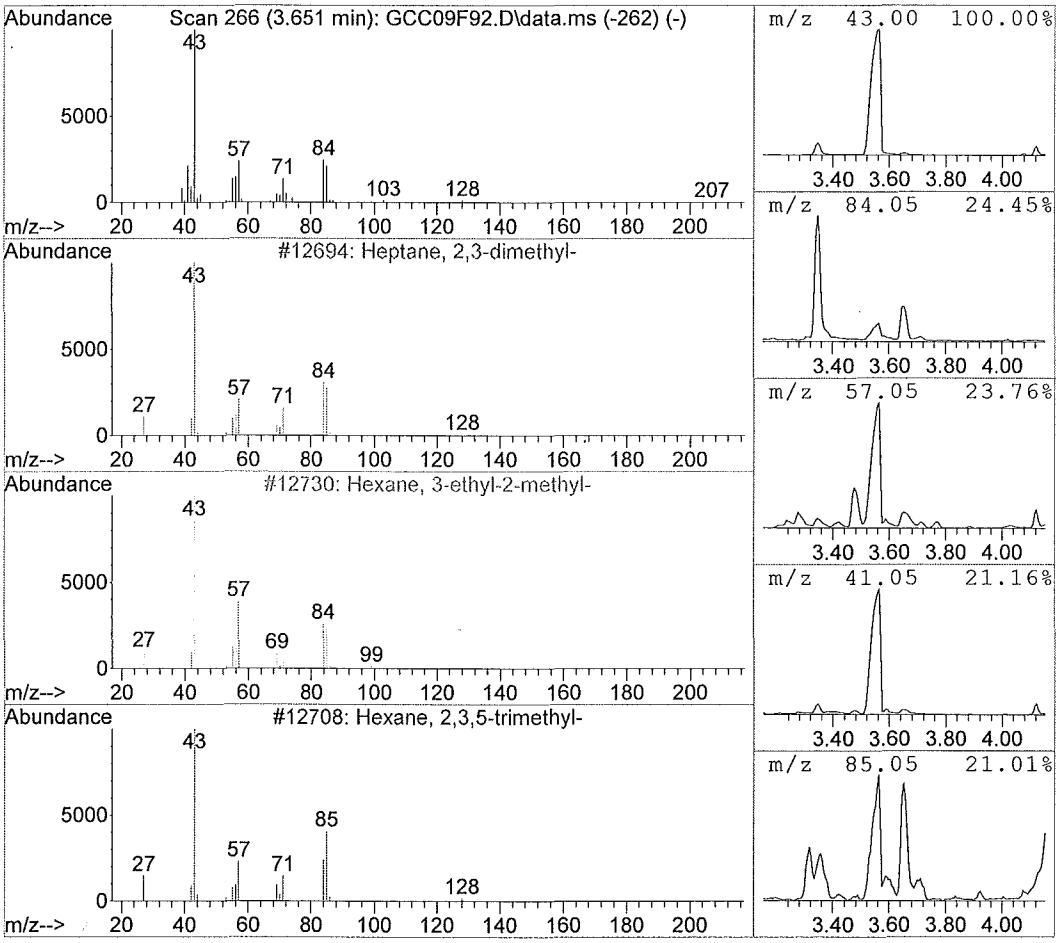
Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.65	5.32 ug/ml	559211	1,4-Dichlorobenzene-d4	2101271

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12694	003074-71-3	78.00
2	Hexane, 3-ethyl-2-methyl-	12730	016789-46-1	64.00
3	Hexane, 2,3,5-trimethyl-	12708	001069-53-0	64.00
4	Heptane, 4-ethyl-	12673	002216-32-2	59.00
5	Octane	7620	000111-65-9	53.00

BA

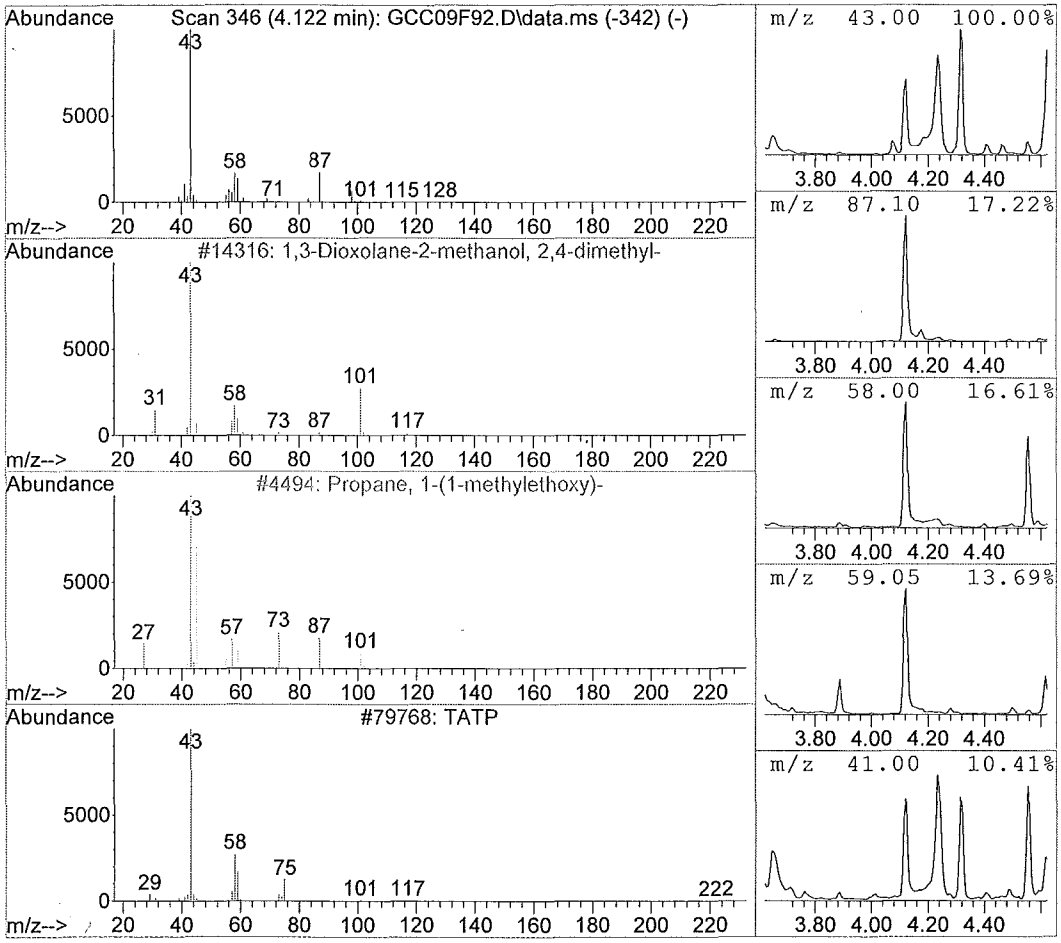


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.12	11.83 ug/ml	1243198	1,4-Dichlorobenzene-d4	2101271

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Dioxolane-2-methanol, 2,4-dimet	14316	053951-43-2	33.00
2	Propane, 1-(1-methylethoxy)-	4494	000627-08-7	33.00
3	TATP	79768	017088-37-8	32.00
4	2-Nonanone	19930	000821-55-6	9.00
5	1,1-Ethanediol, diacetate	21811	000542-10-9	9.00



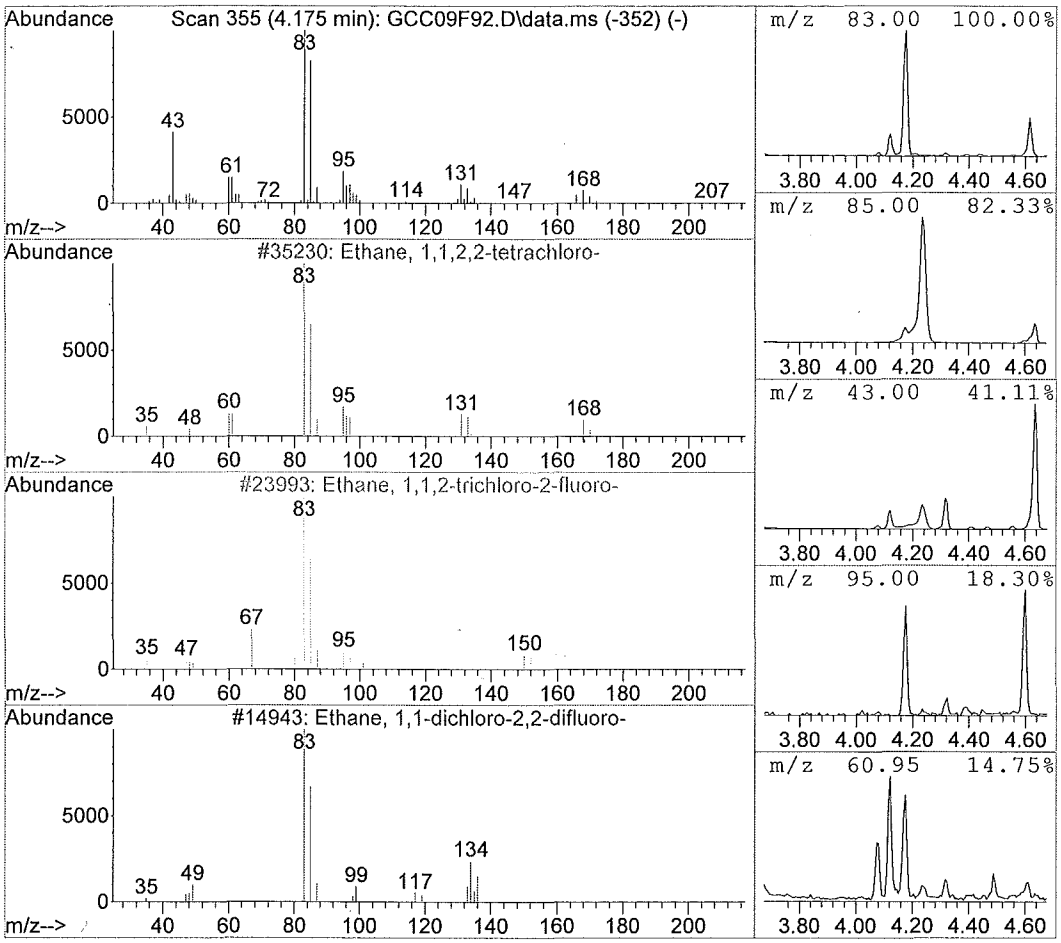
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.17	5.14 ug/ml	539568	1,4-Dichlorobenzene-d4	2101271

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro- VOA	35230	000079-34-5	96.00
2	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	56.00
3	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	45.00
4	Ethane, 2,2-dichloro-1,1,1-trifluor	25465	000306-83-2	45.00
5	Methane, oxybis[dichloro-	47352	020524-86-1	42.00

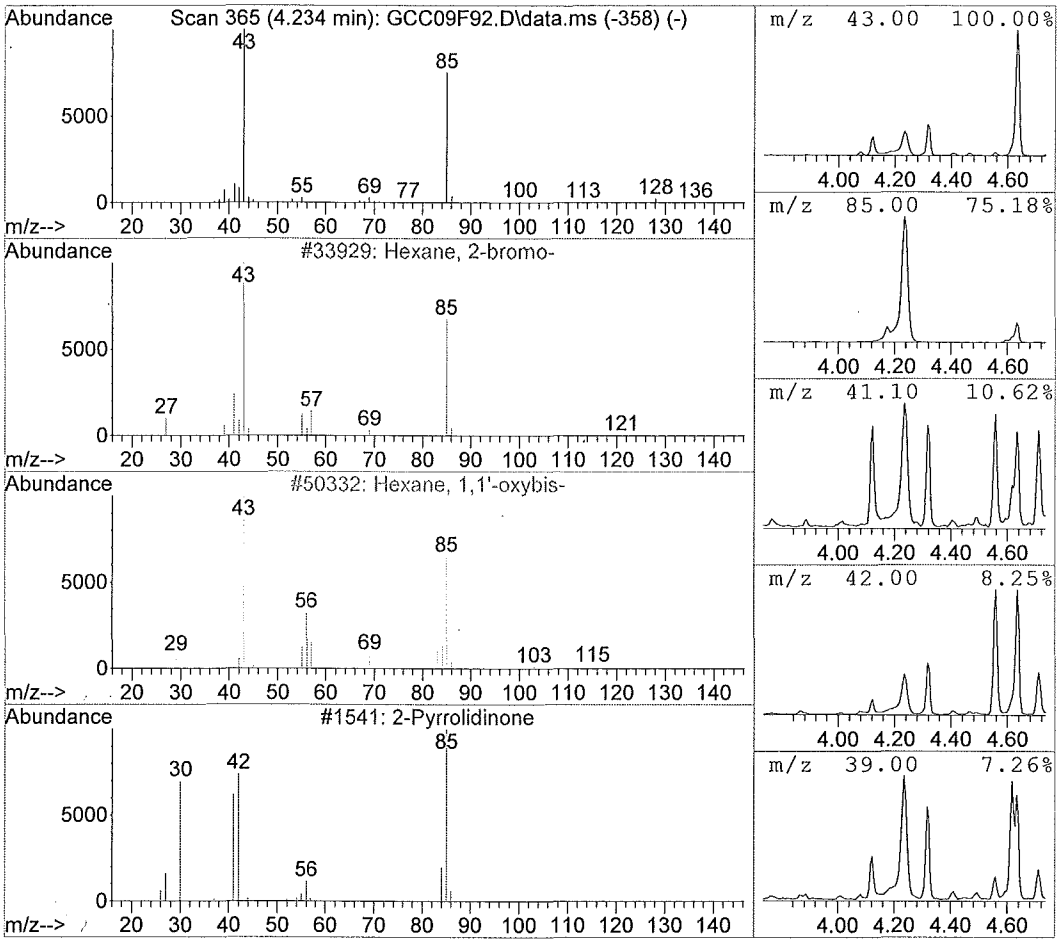


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.23	27.39 ug/ml	2877169	1,4-Dichlorobenzene-d4	2101271

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2-bromo-	33929	003377-86-4	64.00
2	Hexane, 1,1'-oxybis-	50332	000112-58-3	43.00
3	2-Pyrrolidinone	1541	000616-45-5	42.00
4	5-Iodopentan-2-one	71474	003695-29-2	40.00
5	4-Methoxy-3-buten-2-one	3689	004652-27-1	38.00



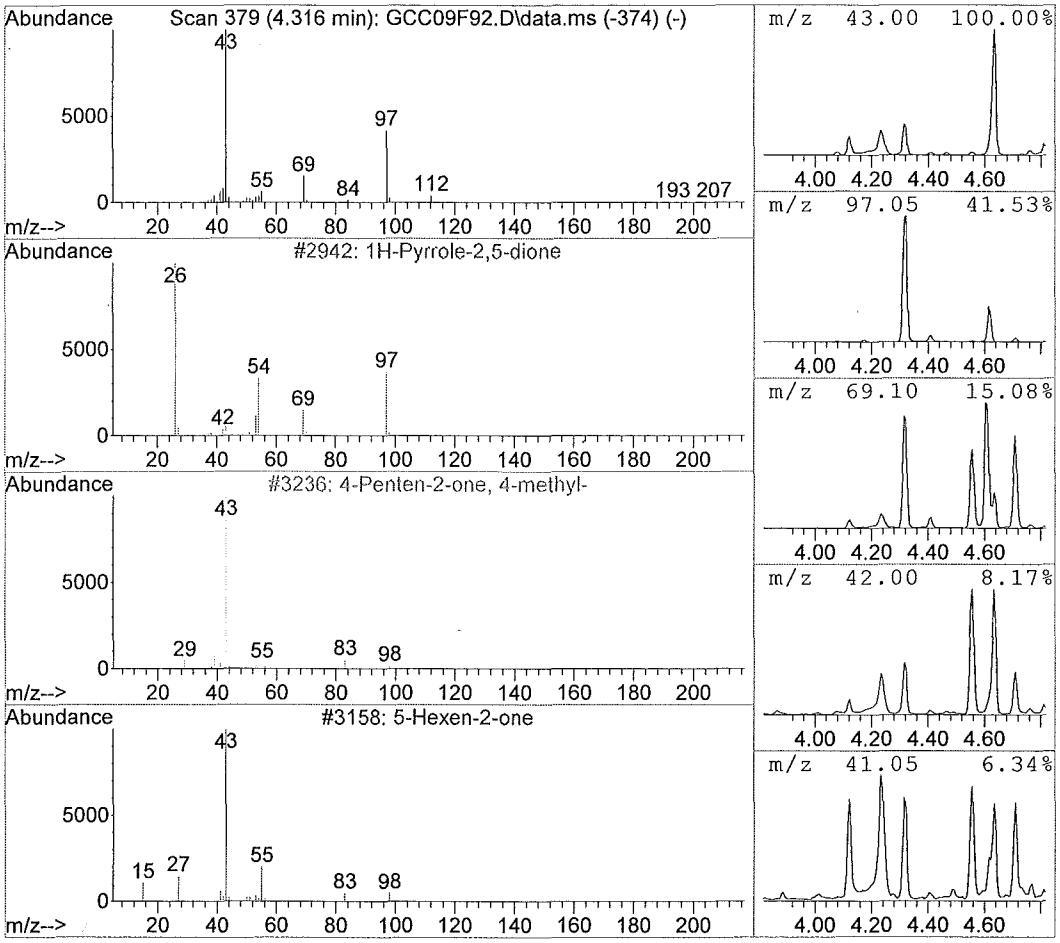
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.32	19.65 ug/ml	2064495	1,4-Dichlorobenzene-d4	2101271

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	42.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	5-Hexen-2-one	3158	000109-49-9	9.00
4	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00
5	4-Hepten-2-one, (E)-	6492	036678-43-0	5.00



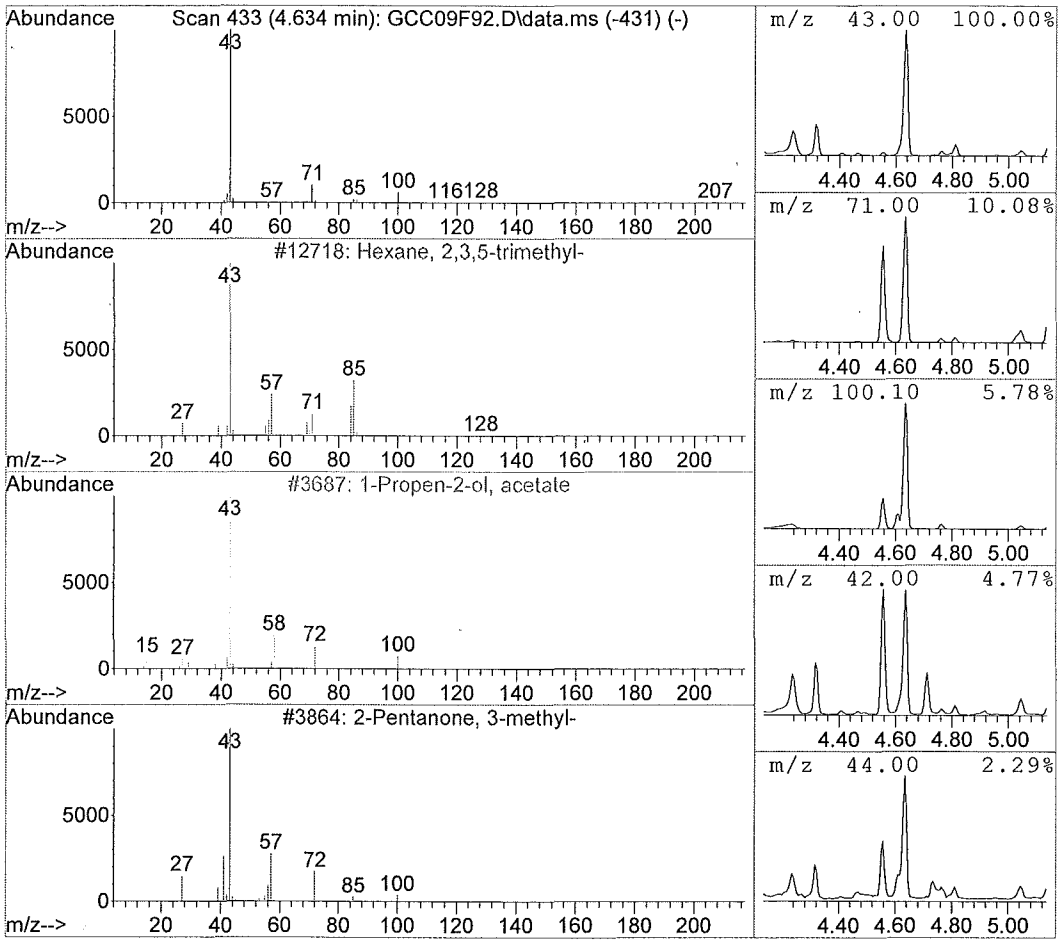
Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.63	47.04 ug/ml	4942633	1,4-Dichlorobenzene-d4	2101271

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
2	1-Propen-2-ol, acetate	3687	000108-22-5	5.00
3	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
4	Heptane, 2,4-dimethyl-	12684	002213-23-2	5.00
5	1-Butanol, 2-methylene-, acetate	12273	055670-09-2	5.00

BA

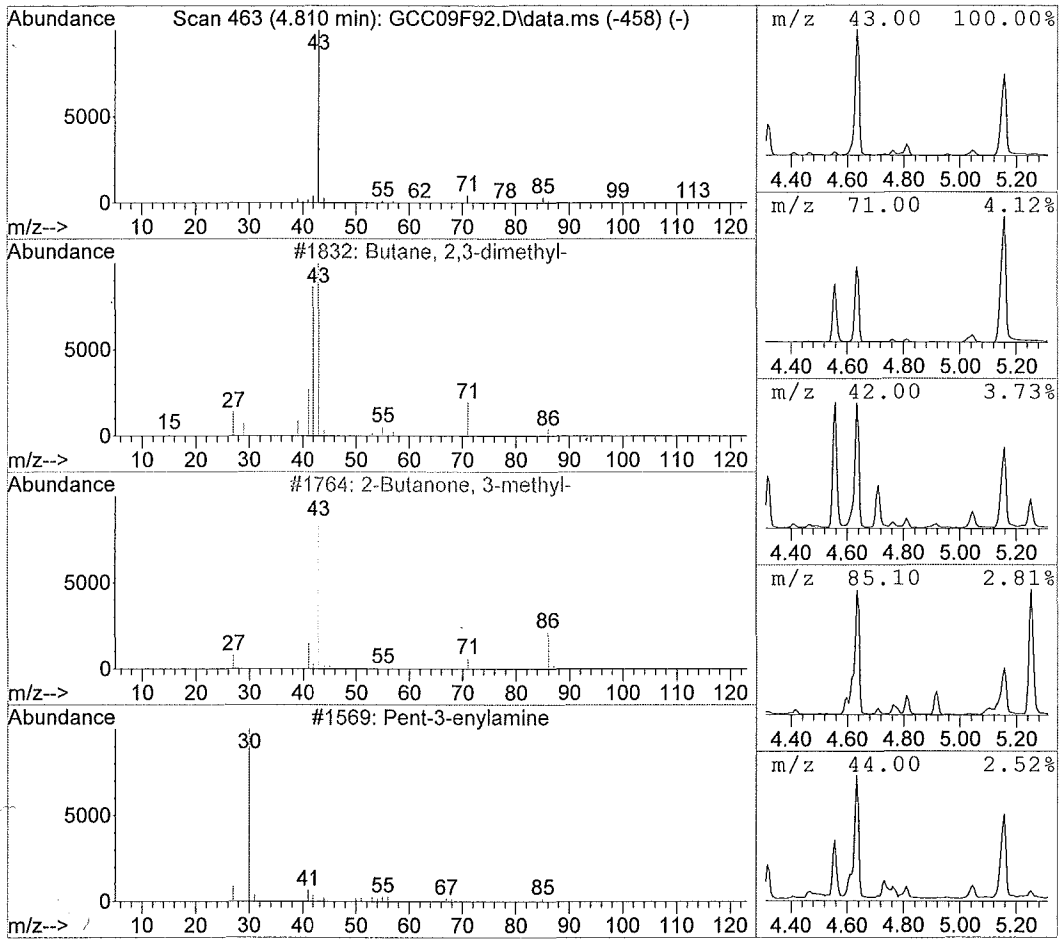


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.81	5.56 ug/ml	584433	1,4-Dichlorobenzene-d4	2101271

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Butane, 2,3-dimethyl-	1832	000079-29-8	4.00
2	2-Butanone, 3-methyl-	1764	000563-80-4	4.00
3	Pent-3-enylamine	1569	087156-70-5	3.00
4	(Aminomethyl)cyclopropane	622	002516-47-4	3.00
5	5-Methyloxazolidine	1878	058328-22-6	3.00

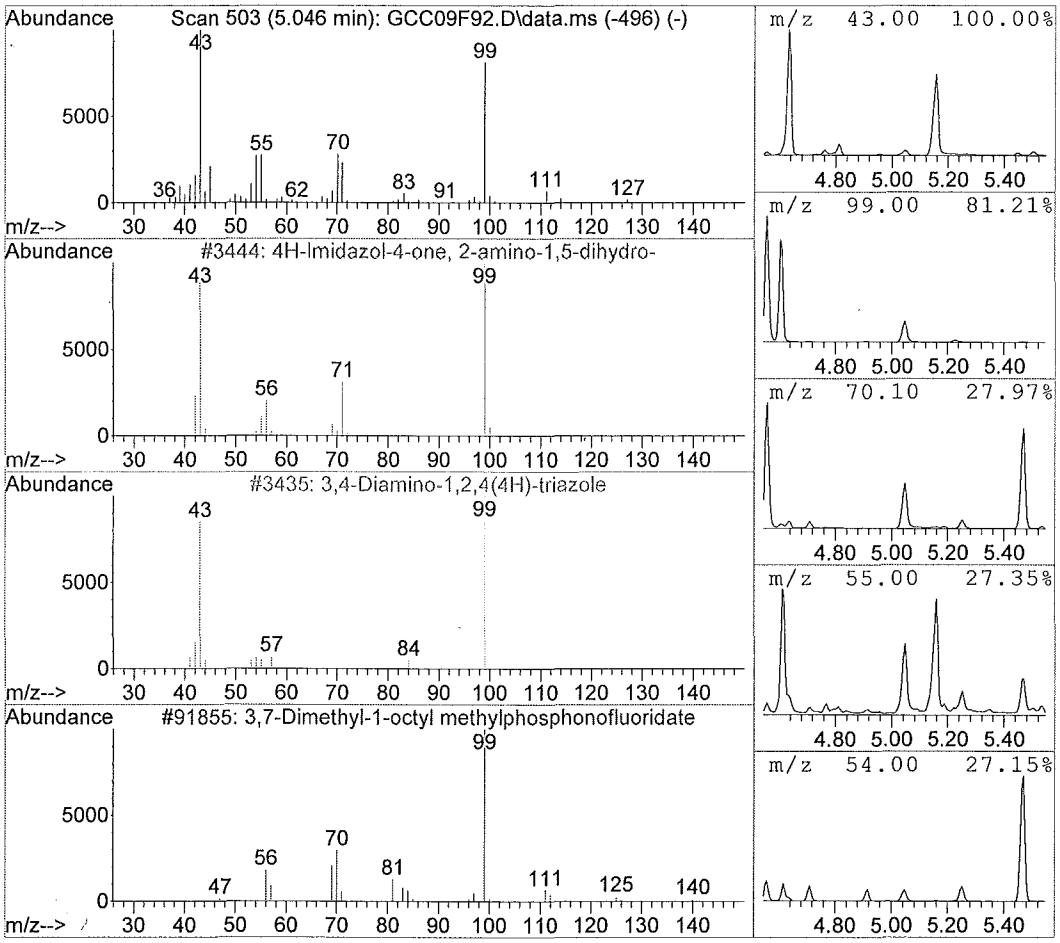


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.05	9.31 ug/ml	978467	1,4-Dichlorobenzene-d4	2101271

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4H-Imidazol-4-one, 2-amino-1,5-dihy	3444	000503-86-6	49.00
2	3,4-Diamino-1,2,4(4H)-triazole	3435	038104-45-9	43.00
3	3,7-Dimethyl-1-octyl methylphosphon	91855	345260-82-4	38.00
4	Oxirane, 2-methyl-2-(2-methylpropyl	7614	053897-31-7	38.00
5	2(3H)-Furanone, 5-butyldihydro-4-me	29113	055013-32-6	38.00

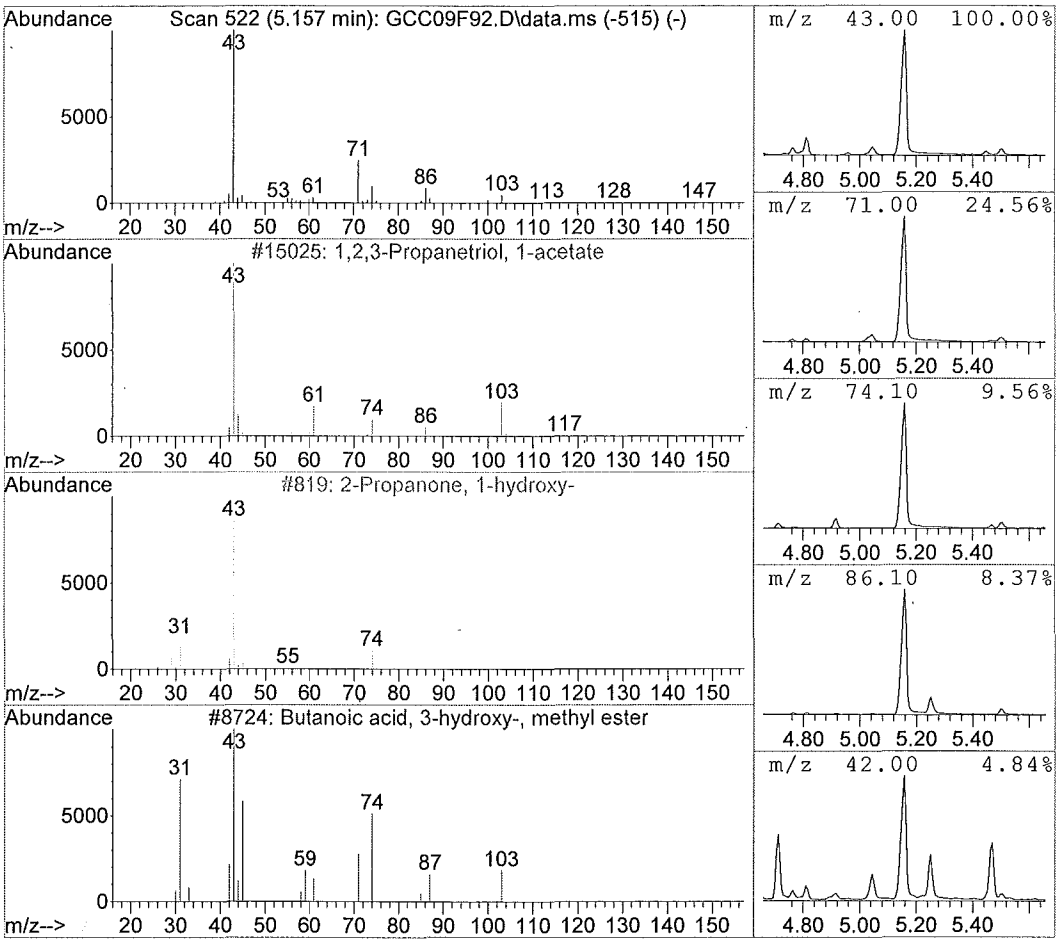


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.16	59.15 ug/ml	6214108	1,4-Dichlorobenzene-d4	2101271

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	32.00
2	2-Propanone, 1-hydroxy-	819	000116-09-6	27.00
3	Butanoic acid, 3-hydroxy-, methyl e	8724	001487-49-6	12.00
4	Diacetyl sulphide	8654	003232-39-1	10.00
5	Pentanal, 2-methyl-	3836	000123-15-9	9.00

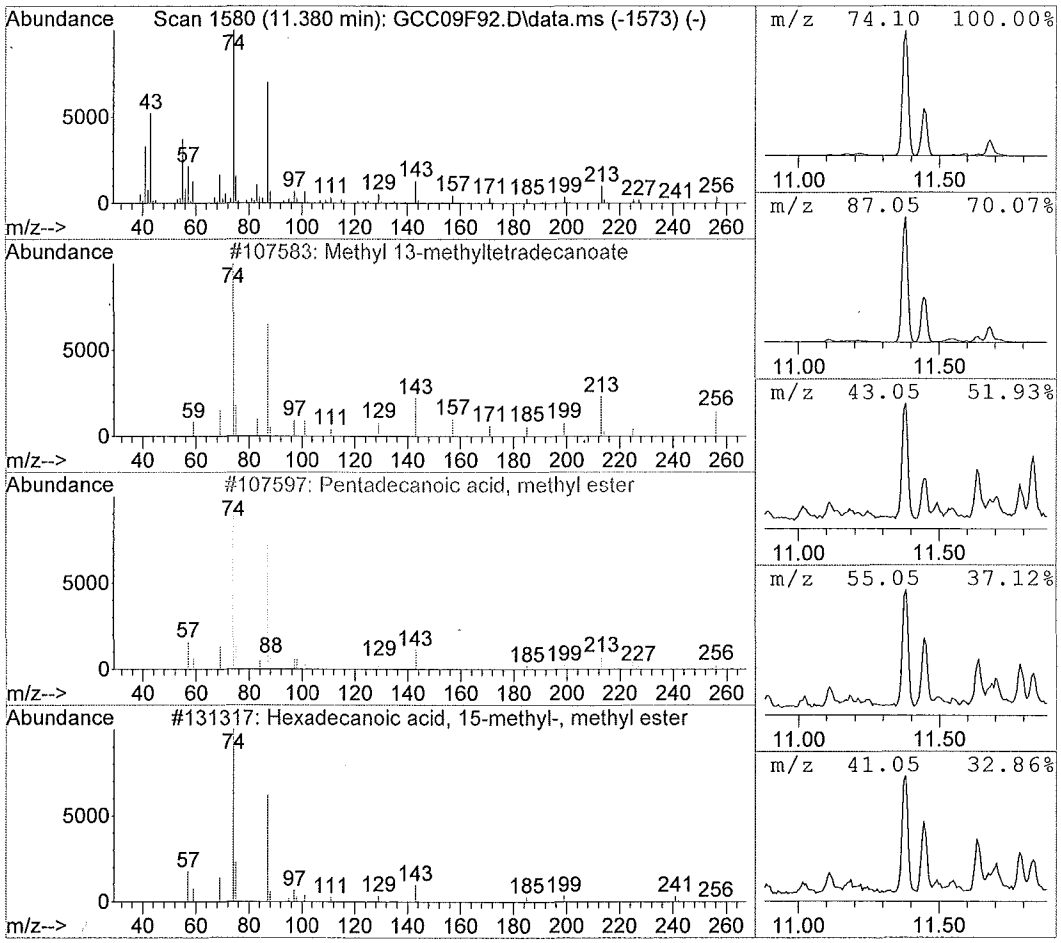


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.38	5.68 ug/ml	839665	Phenanthrene-d10	2956177

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methyl 13-methyltetradecanoate	107583	1000336-31-4	97.00
2	Pentadecanoic acid, methyl ester	107597	007132-64-1	95.00
3	Hexadecanoic acid, 15-methyl-, meth	131317	006929-04-0	87.00
4	Tridecanoic acid, 12-methyl-, methy	95897	005129-58-8	87.00
5	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	87.00



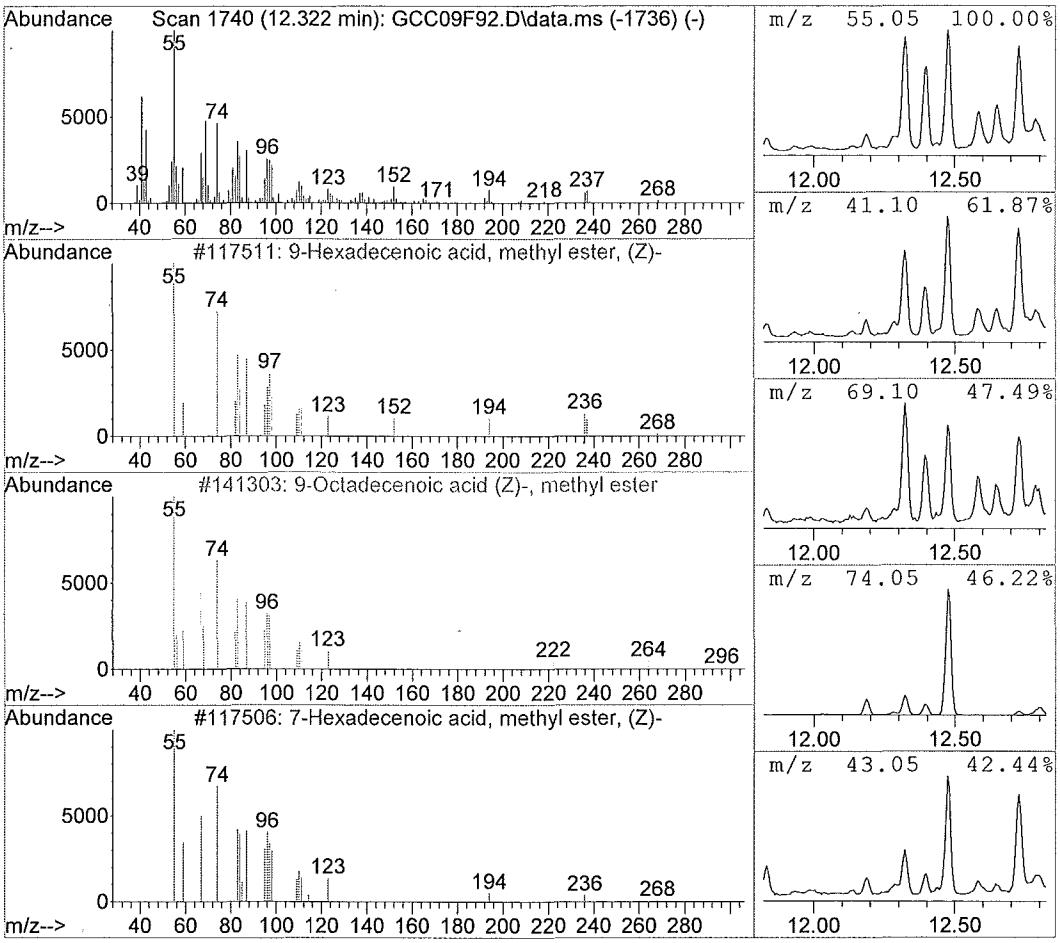
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.32	8.39 ug/ml	1240348	Phenanthrene-d10	2956177

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Hexadecenoic acid, methyl ester,	117511	001120-25-8	94.00
2	9-Octadecenoic acid (Z)-, methyl es	141303	000112-62-9	90.00
3	7-Hexadecenoic acid, methyl ester,	117506	056875-67-3	89.00
4	11-Hexadecenoic acid, methyl ester	117489	055000-42-5	87.00
5	Cyclopropaneoctanoic acid, 2-hexyl-	129412	010152-61-1	87.00



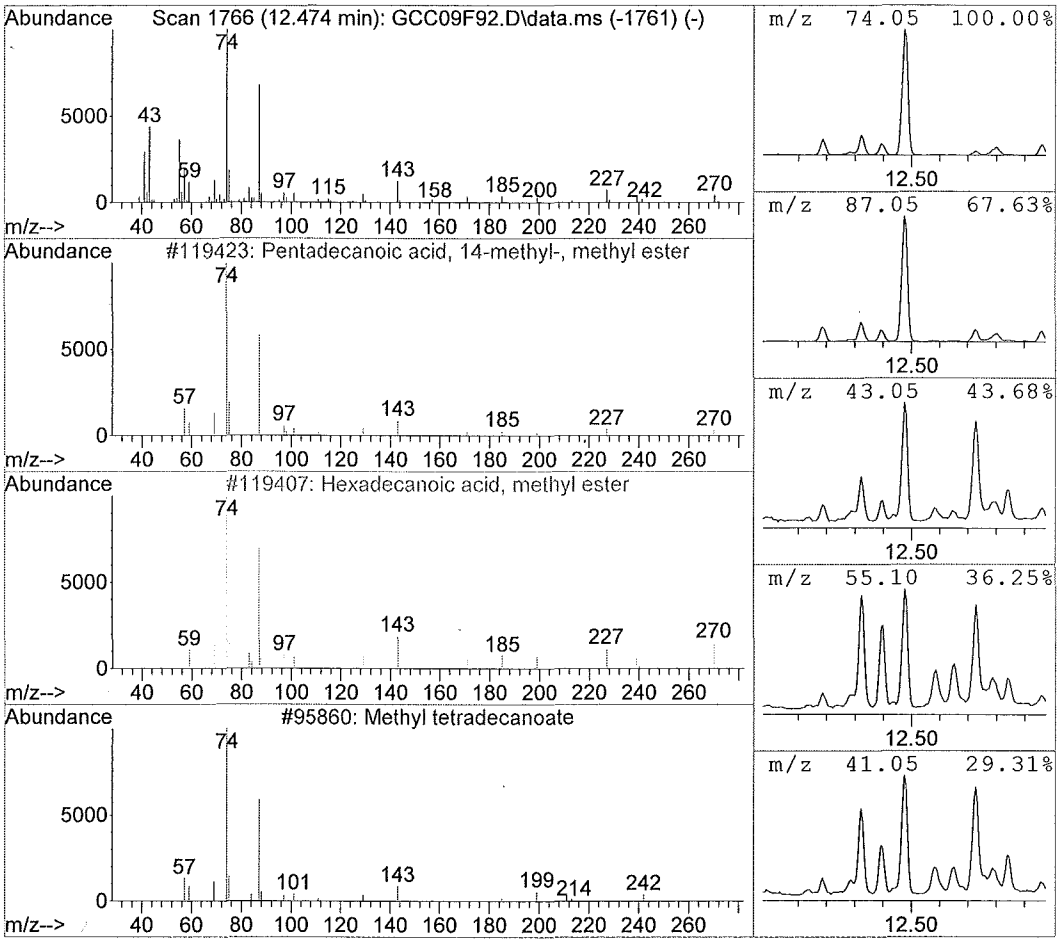
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.47	13.02 ug/ml	1924732	Phenanthrene-d10	2956177

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	98.00
2	Hexadecanoic acid, methyl ester	119407	000112-39-0	97.00
3	Methyl tetradecanoate	95860	000124-10-7	90.00
4	Pentadecanoic acid, methyl ester	107596	007132-64-1	90.00
5	Dodecanoic acid, methyl ester	72681	000111-82-0	90.00

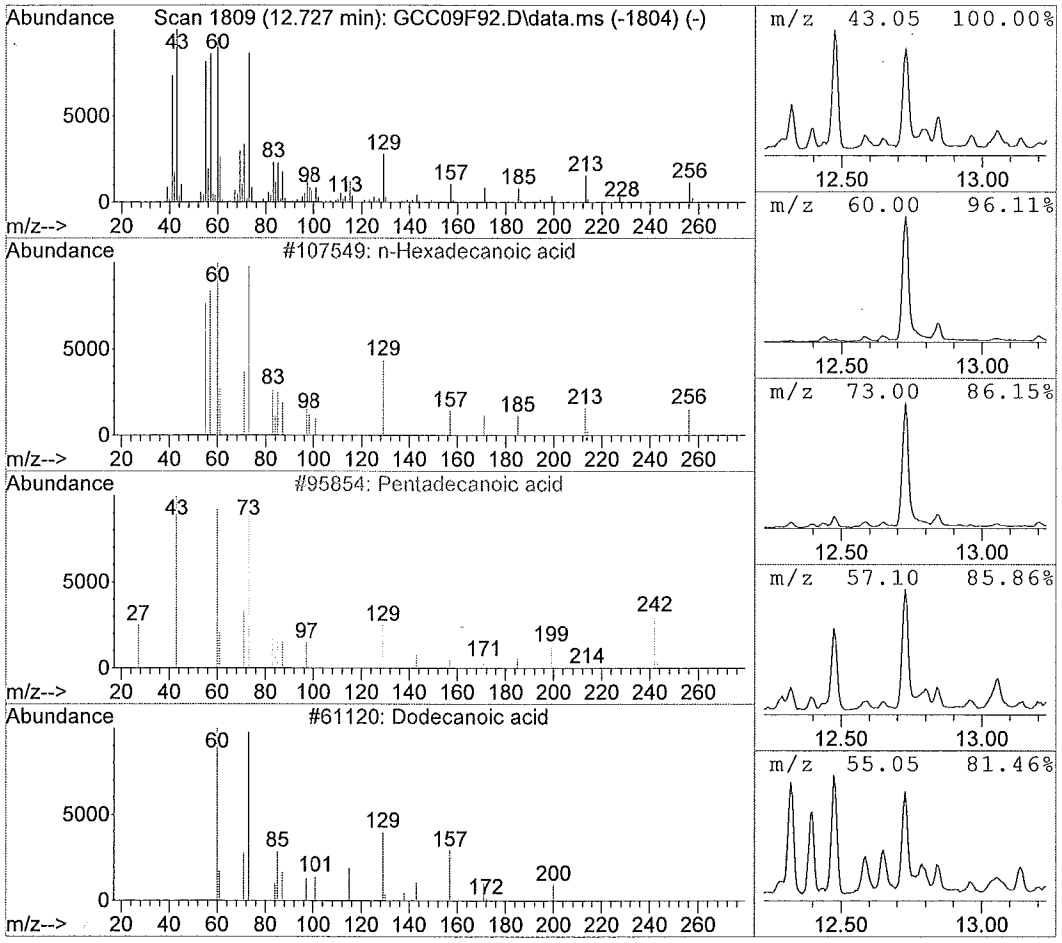


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.73	11.81 ug/ml	1745157	Phenanthrene-d10	2956177

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Pentadecanoic acid	95854	001002-84-2	83.00
3	Dodecanoic acid	61120	000143-07-7	81.00
4	Tetradecanoic acid	84452	000544-63-8	72.00
5	Undecanoic acid	50052	000112-37-8	64.00

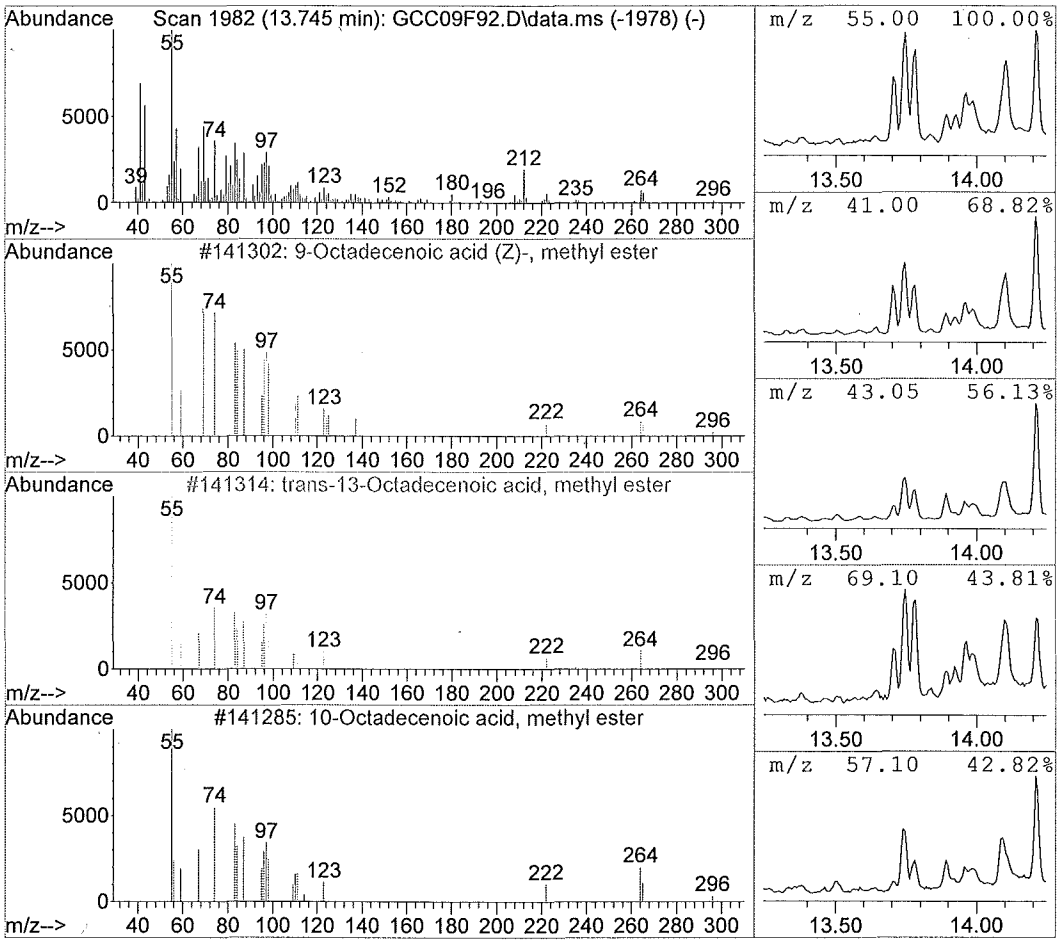


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.74	8.38 ug/ml	1341140	Chrysene-d12	3201221

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenoic acid (Z)-, methyl es	141302	000112-62-9	99.00
2	trans-13-Octadecenoic acid, methyl	141314	1000333-61-3	99.00
3	10-Octadecenoic acid, methyl ester	141285	013481-95-3	98.00
4	12-Octadecenoic acid, methyl ester	141284	056554-46-2	96.00
5	13-Octadecenoic acid, methyl ester	141286	056554-47-3	96.00

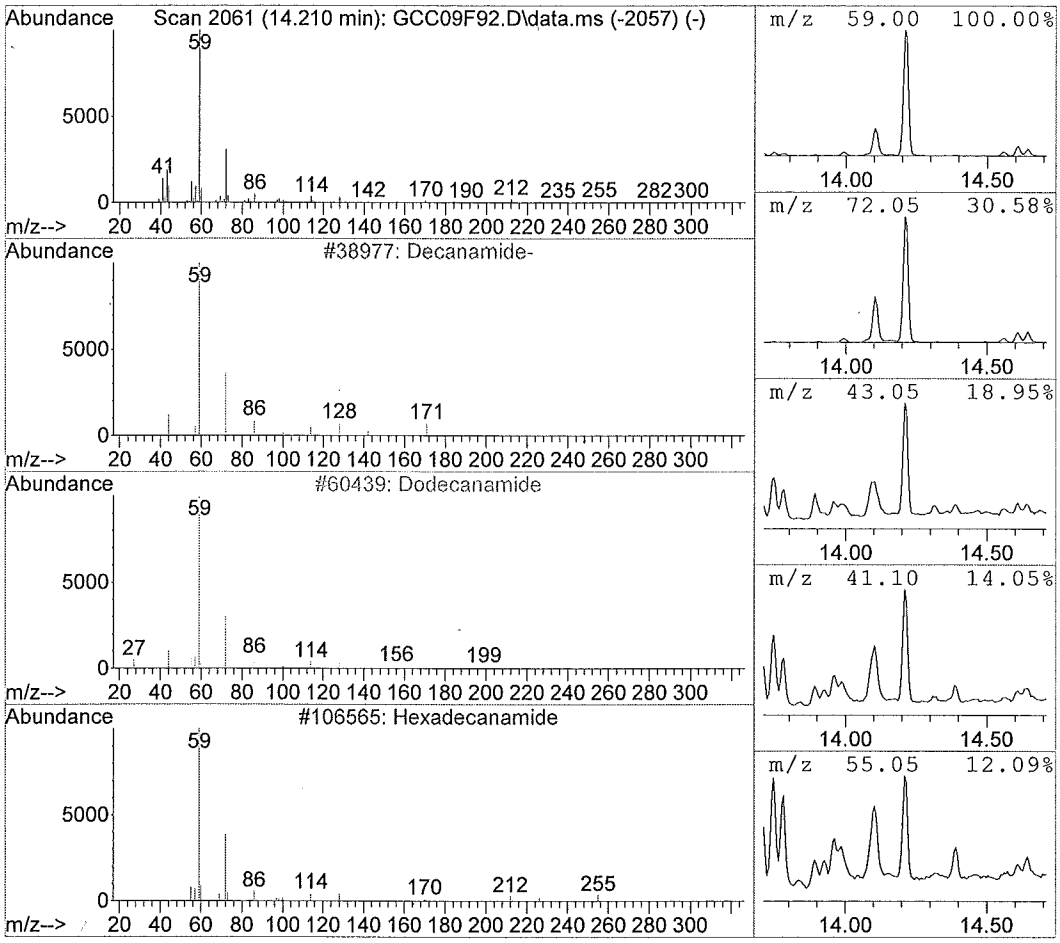


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.21	13.70 ug/ml	2192787	Chrysene-d12	3201221

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decanamide-	38977	002319-29-1	90.00
2	Dodecanamide	60439	001120-16-7	90.00
3	Hexadecanamide	106565	000629-54-9	87.00
4	Nonanamide	29478	001120-07-6	78.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	78.00

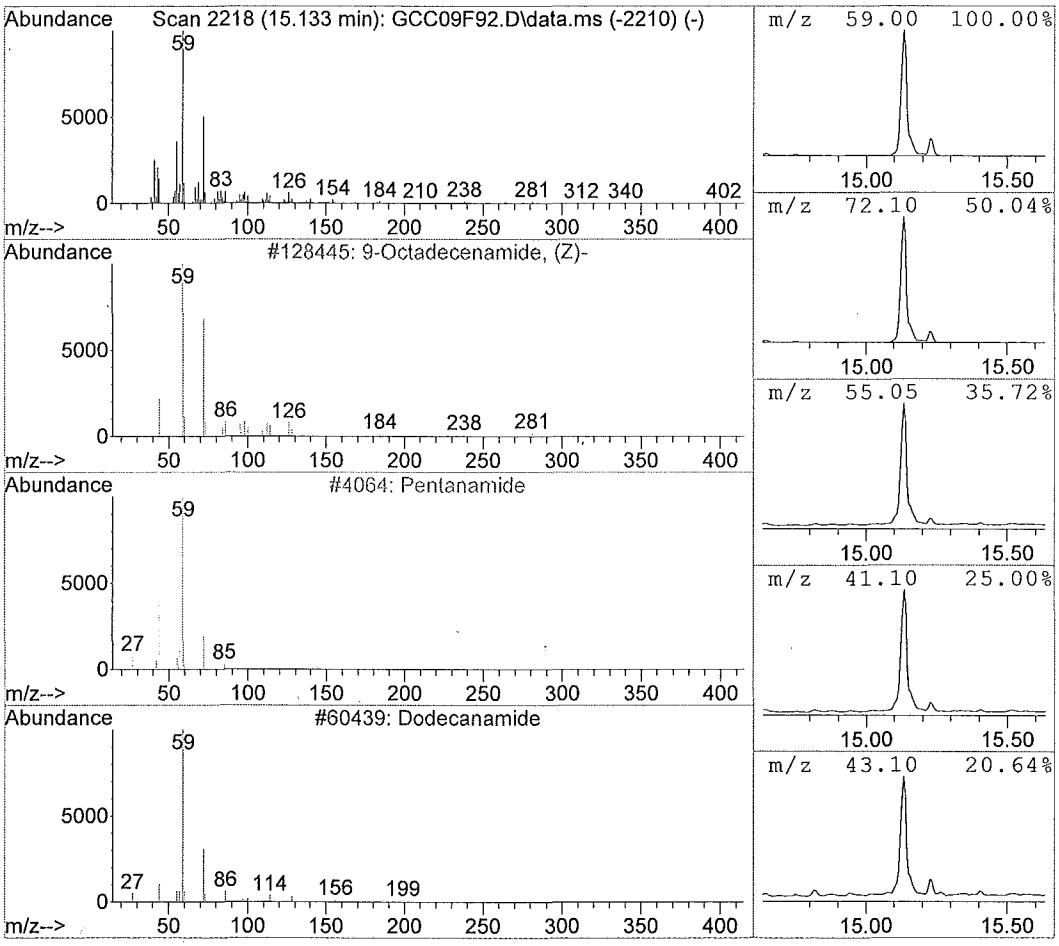


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.13	92.64 ug/ml	14827918	Chrysene-d12	3201221

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	Pentanamide	4064	000626-97-1	59.00
3	Dodecanamide	60439	001120-16-7	59.00
4	Tetradecanamide	83609	000638-58-4	56.00
5	Octanamide	20317	000629-01-6	56.00

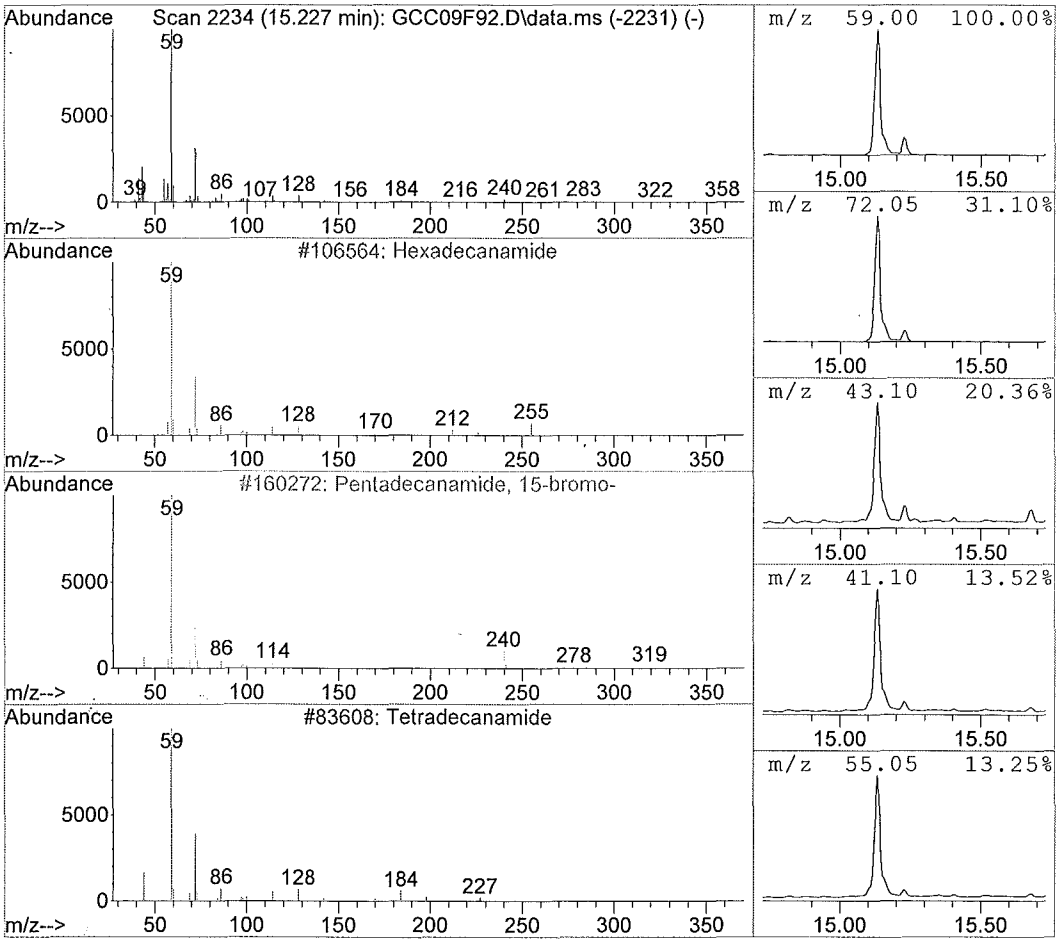


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.23	5.56 ug/ml	890470	Chrysene-d12	3201221

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	95.00
2	Pentadecanamide, 15-bromo-	160272	1000163-86-1	78.00
3	Tetradecanamide	83608	000638-58-4	78.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	72.00
5	Dodecanamide	60439	001120-16-7	64.00

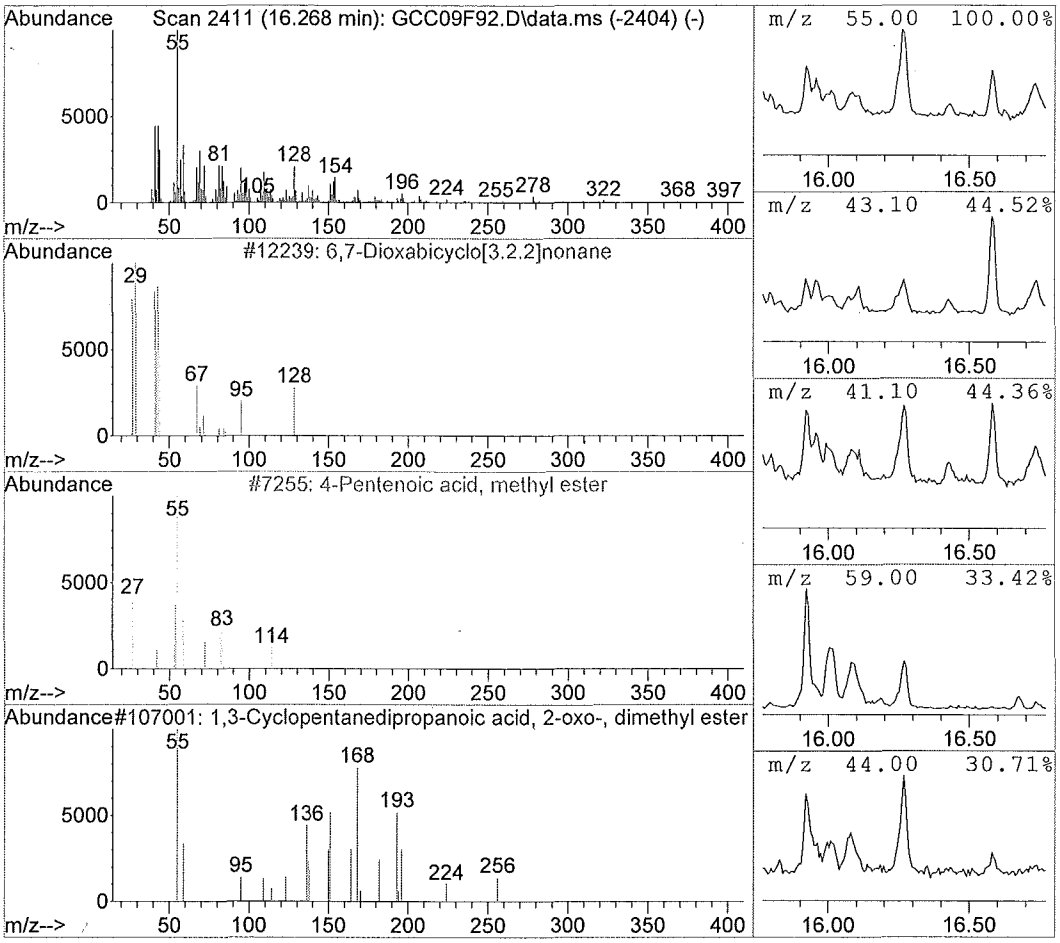


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.27	6.65 ug/ml	1063938	Chrysene-d12	3201221

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	6,7-Dioxabicyclo[3.2.2]nonane	12239	000283-35-2	11.00
2	4-Pentenoic acid, methyl ester	7255	000818-57-5	10.00
3	1,3-Cyclopentanedipropanoic acid, 2	107001	057822-12-5	10.00
4	N-(3-Methylbutyl)acetamide	12959	013434-12-3	10.00
5	N-(3-Methyl-2,5-dioxo-imidazolidin-	39190	1000287-36-8	10.00



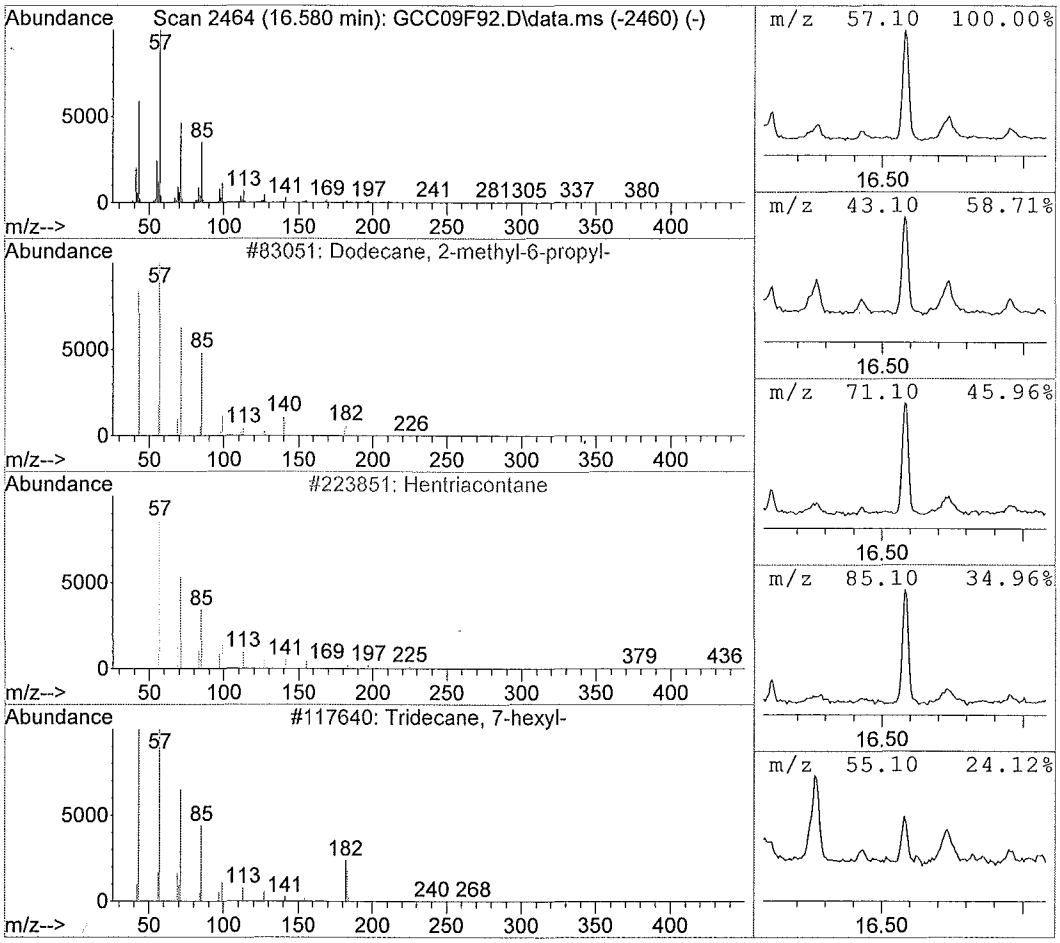
Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.58	5.10 ug/ml	816349	Chrysene-d12	3201221

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	93.00
2	Hentriacontane	223851	000630-04-6	91.00
3	Tridecane, 7-hexyl-	117640	007225-66-3	90.00
4	Octadecane, 2-methyl-	117648	001560-88-9	90.00
5	Eicosane	129492	000112-95-8	90.00

BA



Library Search Compound Report

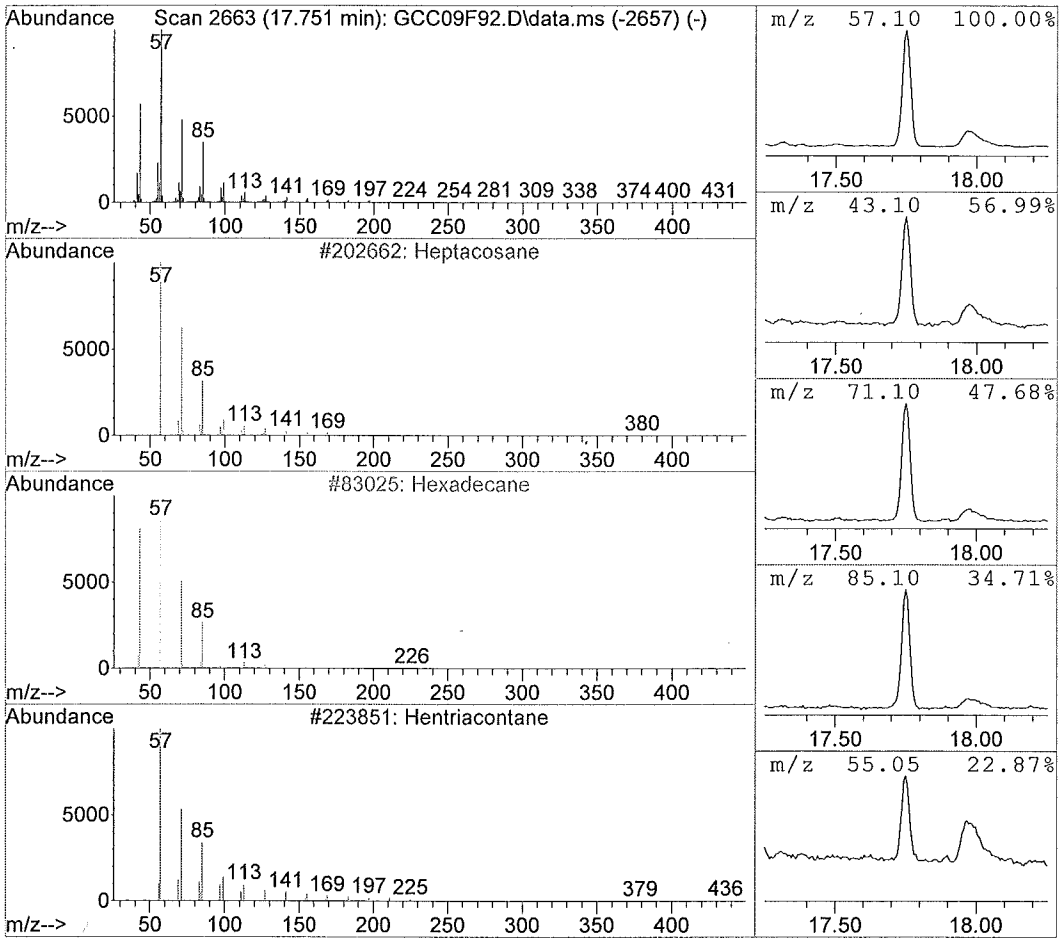
Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.75	19.22 ug/ml	1929372	Perylene-d12	2007286

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	91.00
2	Hexadecane	83025	000544-76-3	91.00
3	Hentriacontane	223851	000630-04-6	91.00
4	Hexacosane	194493	000630-01-3	90.00
5	Heneicosane, 11-pentyl-	194505	014739-72-1	90.00

SA

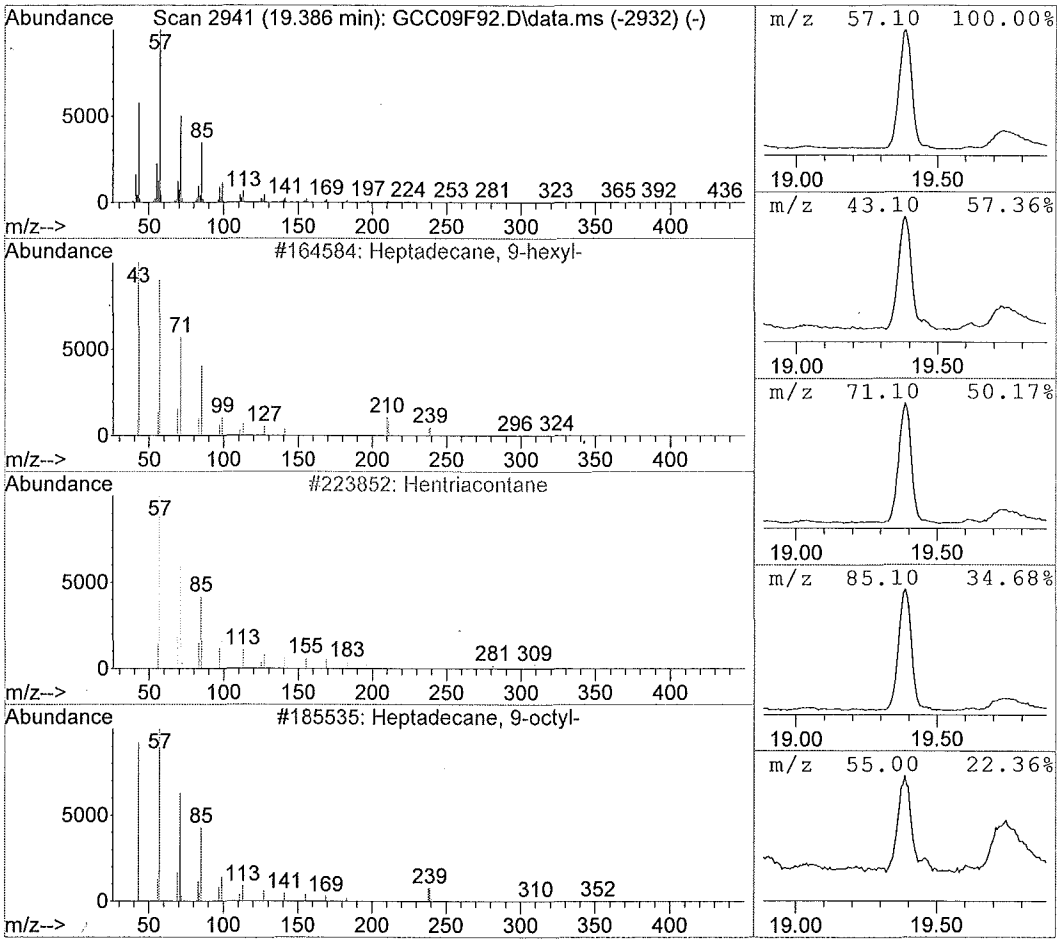


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.39	30.08 ug/ml	3019315	Perylene-d12	2007286

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptadecane, 9-hexyl- BA	164584	055124-79-3	94.00
2	Hentriacontane	223852	000630-04-6	91.00
3	Heptadecane, 9-octyl-	185535	007225-64-1	91.00
4	Heptacosane	202662	000593-49-7	91.00
5	Hexacosane	194494	000630-01-3	91.00



Library Search Compound Report

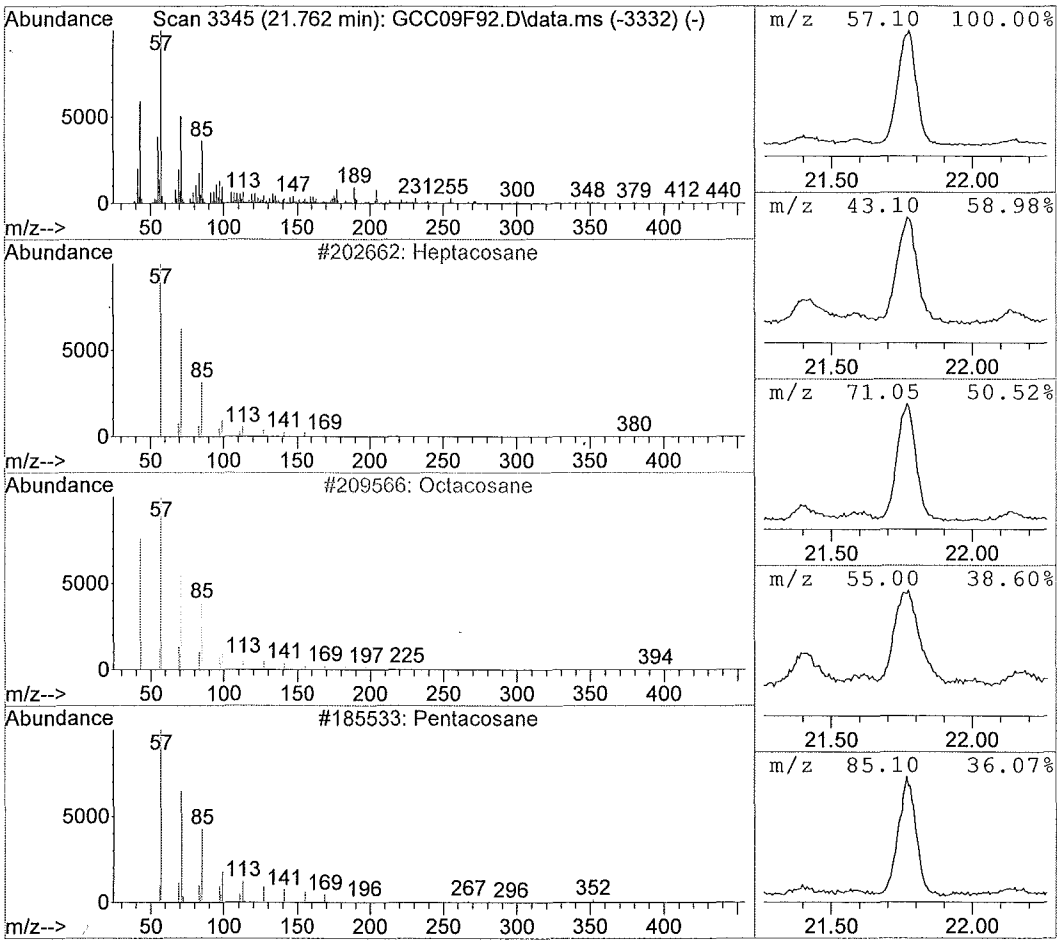
Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC09F92.D Vial: 8
Acq On : 06/24/2015 11:20 Operator: SY
Sample : 1515725014 F9M92 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.76	43.95 ug/ml	4410856	Perylene-d12	2007286

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	94.00
2	Octacosane	209566	000630-02-4	90.00
3	Pentacosane	185533	000629-99-2	89.00
4	Nonadecane, 9-methyl-	129499	013287-24-6	83.00
5	Hexadecane	83025	000544-76-3	70.00

5A



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M93

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725015

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GCC10F94

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	190	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M93

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725015

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GCC10F94

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	260	
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M93

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725015
Sample wt/vol: 30.0 (g/mL) g Lab File ID: GCC10F94
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 12. Decanted: (Y/N) N Date Received: 06/05/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015
GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	814-78-8	3-Buten-2-one, 3-methyl-	2.22	340	JN
02		Unknown 2-Pentanone, 4-hydroxy-	3.35	1000	JB
03		Unknown Guanidine	3.57	20000	J
04		Unknown Propane, 1-(1-methylethoxy)-	4.12	520	J
05		Unknown 5-Iodopentan-2-one	4.23	1200	J
06		Unknown 1H-Pyrrole-2,5-dione	4.32	730	J
07		Unknown Ethanol, 2-(2-ethoxyethoxy)-	4.73	340	J
08		Unknown 4H-Imidazol-4-one, 2-amino-1,5-dihydro-	5.05	220	J
09		Unknown 1,2,3-Propanetriol, 1-acetate	5.16	2300	J
10	112-39-0	Hexadecanoic acid, methyl ester	12.47	270	JN
11	57-10-3	n-Hexadecanoic acid	12.73	440	JN
12	2319-29-1	Decanamide-	14.22	700	JN
13	301-02-0	9-Octadecenamide, (Z)-	15.14	5000	JNB
14	629-54-9	Hexadecanamide	15.23	260	JNB
15		Unknown 5.beta.-Cholest-23-ene, (Z)-	16.27	240	J
16	301-02-0	9-Octadecenamide, (Z)-	17.06	630	JN
17	35599-77-0	Tridecane, 1-iodo-	17.75	490	JN
18		Unknown 1,2-Benzenedicarboxylic acid	18.74	2000	J
19		Unknown 1,1,4a-Trimethyl-5,6-dimethylenedecahydr	21.40	460	J
20		Unknown 2-Tetradecanone	21.59	390	J
21		Unknown Phthalic anhydride	23.54	1900	J
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	3900	J

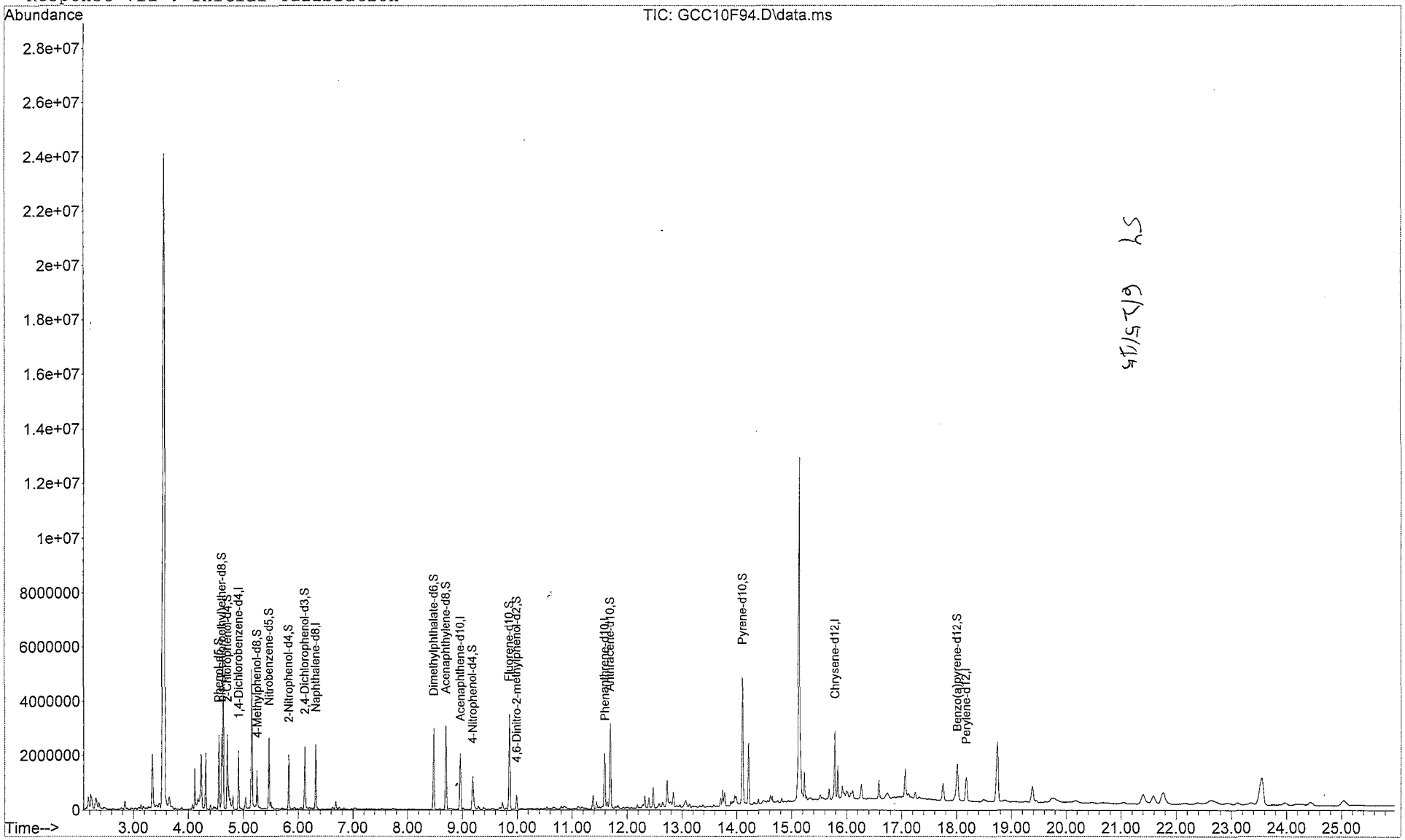
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 25 06:33:13 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration



GCC10F94.D GSOM01D6.M Thu Jun 25 08:06:11 2015 Page 3

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 06:33:13 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.92	152	305399	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1134412	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	672161	20.00 ug/ml
59) Phenanthrene-d10	11.59	188	1134891	20.00 ug/ml
73) Chrysene-d12	15.79	240	1059745	20.00 ug/ml
81) Perylene-d12	18.17	264	663612	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.56	99	837493	31.513ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	593957	28.678ug/mL
7) 2-Chlorophenol-d4	4.71	132	690444	30.770ug/ml
13) 4-Methylphenol-d8	5.25	113	282335	15.883ug/mL
17) Nitrobenzene-d5	5.47	128	327747	32.888ug/ml
21) 2-Nitrophenol-d4	5.83	143	339646	32.244ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	535404	32.643ug/mL
28) 4-Chloroaniline-d4	6.41	131	1491	0.083ug/mL
42) Dimethylphthalate-d6	8.48	166	1572708	37.313ug/mL
45) Acenaphthylene-d8	8.70	160	1867423	32.602ug/mL
50) 4-Nitrophenol-d4	9.19	143	324481	37.737ug/mL
57) Fluorene-d10	9.86	176	1318365	36.626ug/mL
61) 4,6-Dinitro-2-methylphenol	9.99	200	92603	11.496ug/mL
69) Anthracene-d10	11.69	188	1866379	31.011ug/mL
75) Pyrene-d10	14.11	212	1902642	35.976ug/mL
86) Benzo(a)pyrene-d12	18.02	264	915244	28.782ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

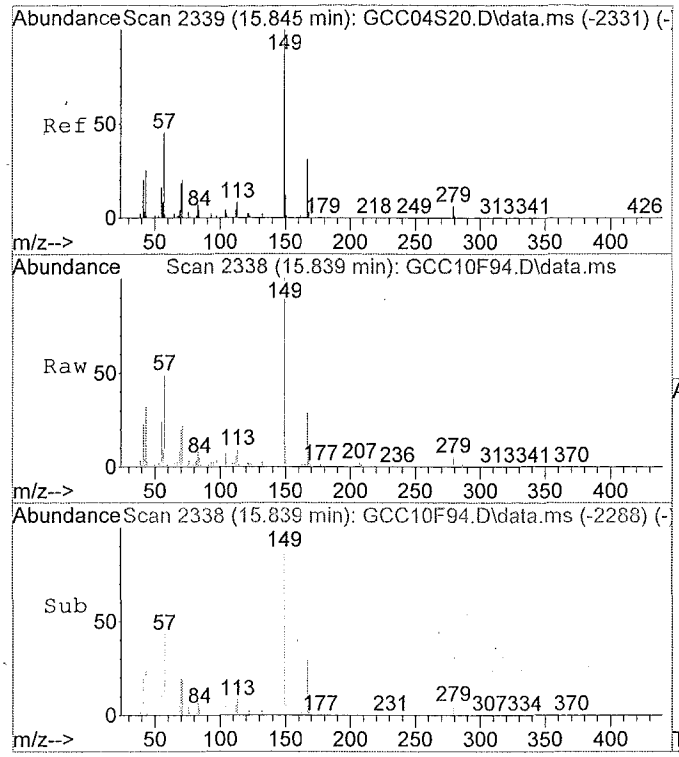
Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 06:33:13 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	0.00	152		Not Detected	
46)	3-Nitroaniline	0.00	138		Not Detected	
47)	Acenaphthene	0.00	153		Not Detected	
48)	2,4-Dinitrophenol	0.00	184		Not Detected	
49)	4-Nitrophenol	0.00	109		Not Detected	
51)	Dibenzofuran	0.00	168		Not Detected	
52)	2,4-Dinitrotoluene	0.00	165		Not Detected	
53)	2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54)	Diethylphthalate	0.00	149		Not Detected	
55)	4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56)	Fluorene	0.00	166		Not Detected	
58)	4-Nitroaniline	0.00	138		Not Detected	
60)	4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62)	N-Nitrosodiphenylamine	0.00	169		Not Detected	
63)	4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64)	Hexachlorobenzene	0.00	284		Not Detected	
65)	Atrazine	0.00	200		Not Detected	
66)	Pentachlorophenol	0.00	266		Not Detected	
67)	Phenanthrene	0.00	178		Not Detected	
68)	Anthracene	0.00	178		Not Detected	
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	0.00	202		Not Detected	
74)	Pyrene	0.00	202		Not Detected	
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	0.00	228		Not Detected	
79)	Chrysene	0.00	228		Not Detected	
80)	Bis-(2-ethylhexyl)phthalat	15.84	149	358733	6.845ug/ml	97
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	0.00	252		Not Detected	
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	0.00	252		Not Detected	
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

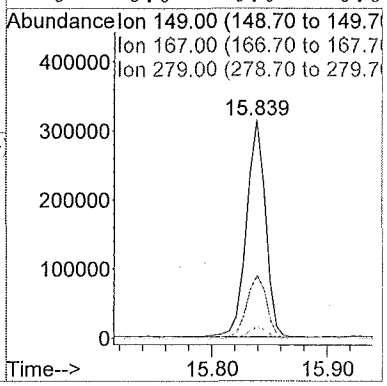
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#80
Bis-(2-ethylhexyl)phthalate
Concen: 6.85 ug/ml
RT: 15.84 min Scan# 2338
Delta R.T. -0.01 min
Lab File: GCC10F94.D
Acq: 06/24/2015 11:53

Tgt Ion:149 Resp: 358733

Ion	Ratio	Lower	Upper
149	100		
167	29.8	22.0	40.8
279	5.5	5.0	9.2
0	0.0	0.0	0.0

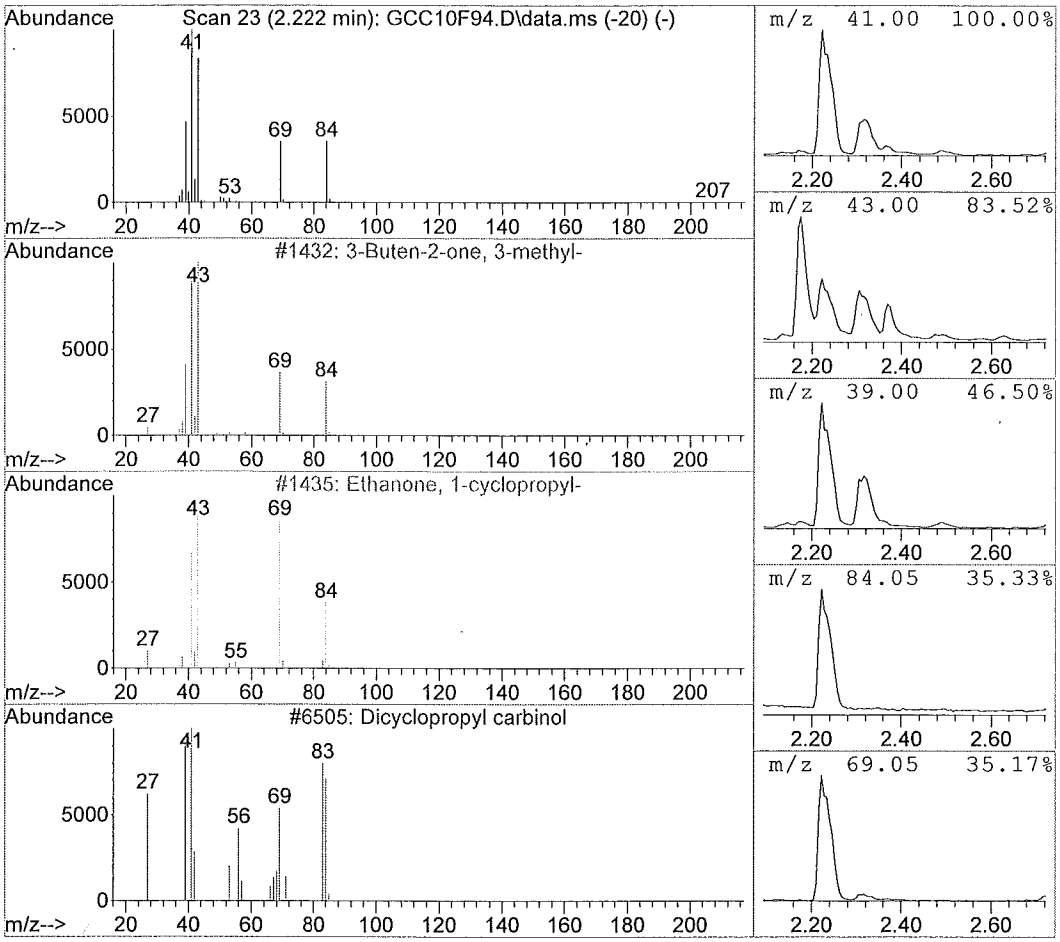


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.22	8.93 ug/ml	955576	1,4-Dichlorobenzene-d4	2140191

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Buten-2-one, 3-methyl-	1432	000814-78-8	91.00
2	Ethanone, 1-cyclopropyl-	1435	000765-43-5	49.00
3	Dicyclopropyl carbinol	6505	014300-33-5	33.00
4	Cyclopropane, 1,1,2-trimethyl-	1520	004127-45-1	32.00
5	Furan, 2,3-dihydro-	538	001191-99-7	28.00

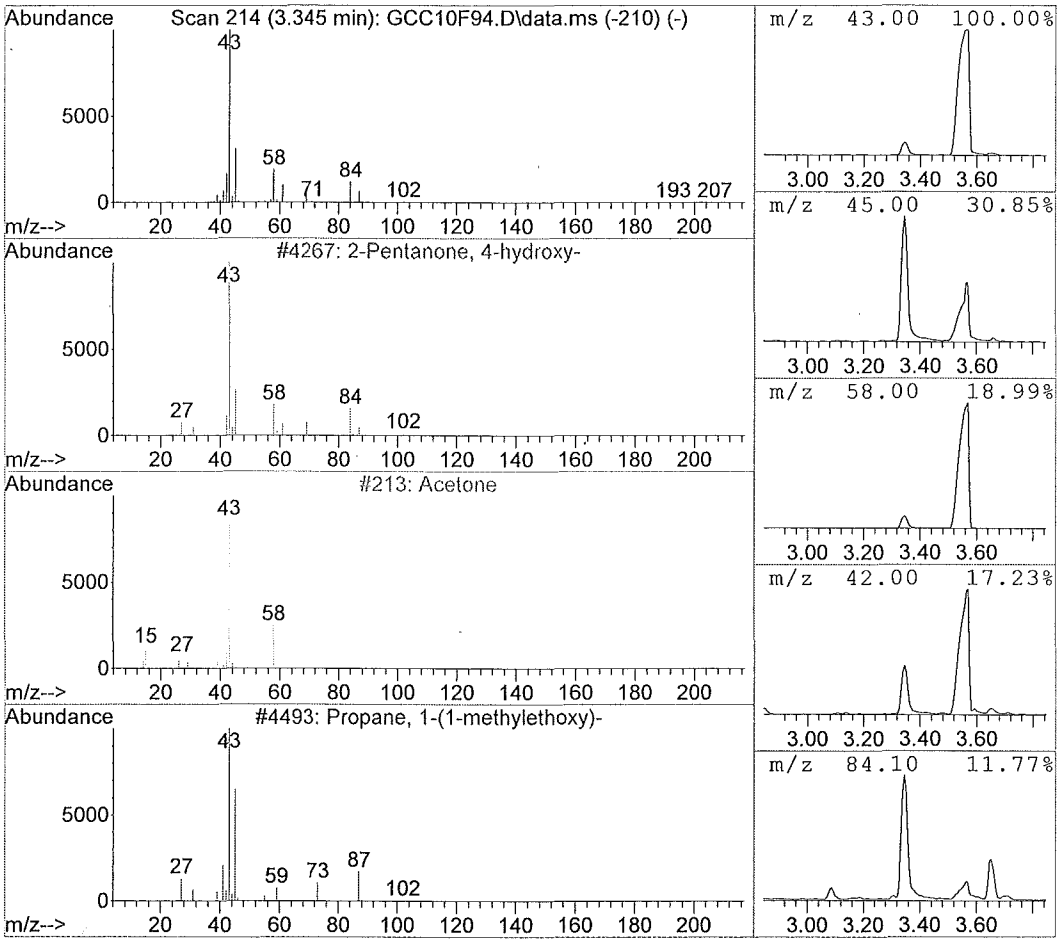


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.35	27.52 ug/ml	2944760	1,4-Dichlorobenzene-d4	2140191

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	43.00
2	Acetone	213	000067-64-1	9.00
3	Propane, 1-(1-methylethoxy)-	4493	000627-08-7	9.00
4	Isopropyl acetate	4253	000108-21-4	9.00
5	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	9.00

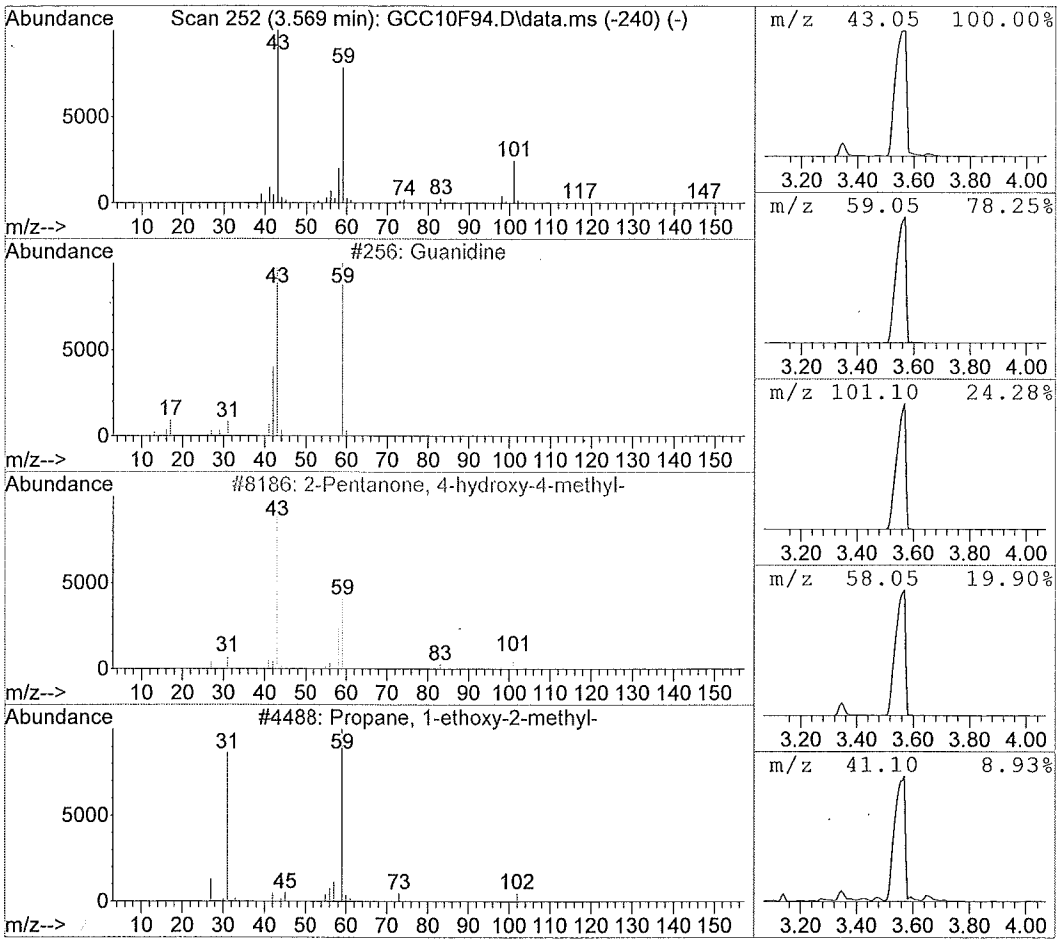


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.57	528.13 ug/ml	56514720	1,4-Dichlorobenzene-d4	2140191

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Guanidine	256	000113-00-8	50.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
3	Propane, 1-ethoxy-2-methyl-	4488	000627-02-1	37.00
4	4-Hydroxy-3-hexanone	8102	004984-85-4	33.00
5	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00



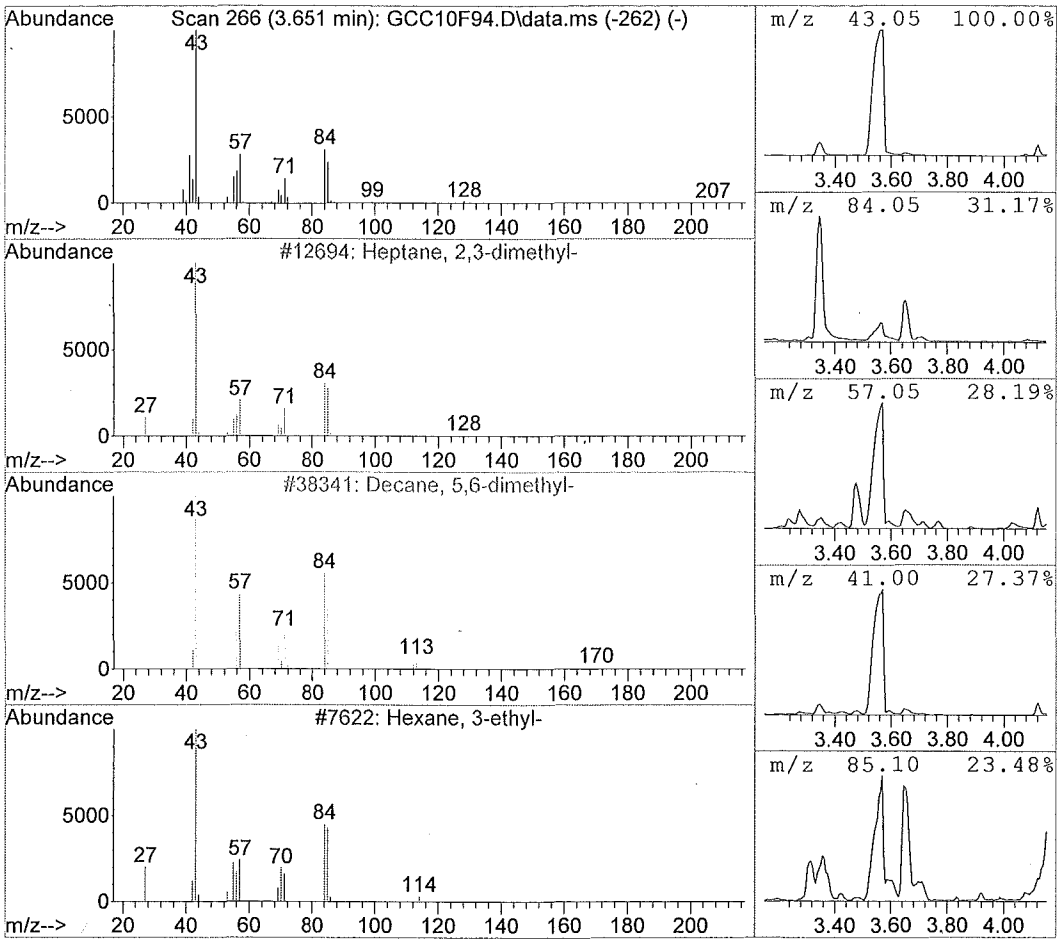
Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.65	5.79 ug/ml	620053	1,4-Dichlorobenzene-d4	2140191

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12694	003074-71-3	91.00
2	Decane, 5,6-dimethyl-	38341	001636-43-7	64.00
3	Hexane, 3-ethyl-	7622	000619-99-8	64.00
4	Nonane, 4-ethyl-5-methyl-	38351	001632-71-9	53.00
5	Hexane, 3-ethyl-2-methyl-	12726	016789-46-1	53.00

BA

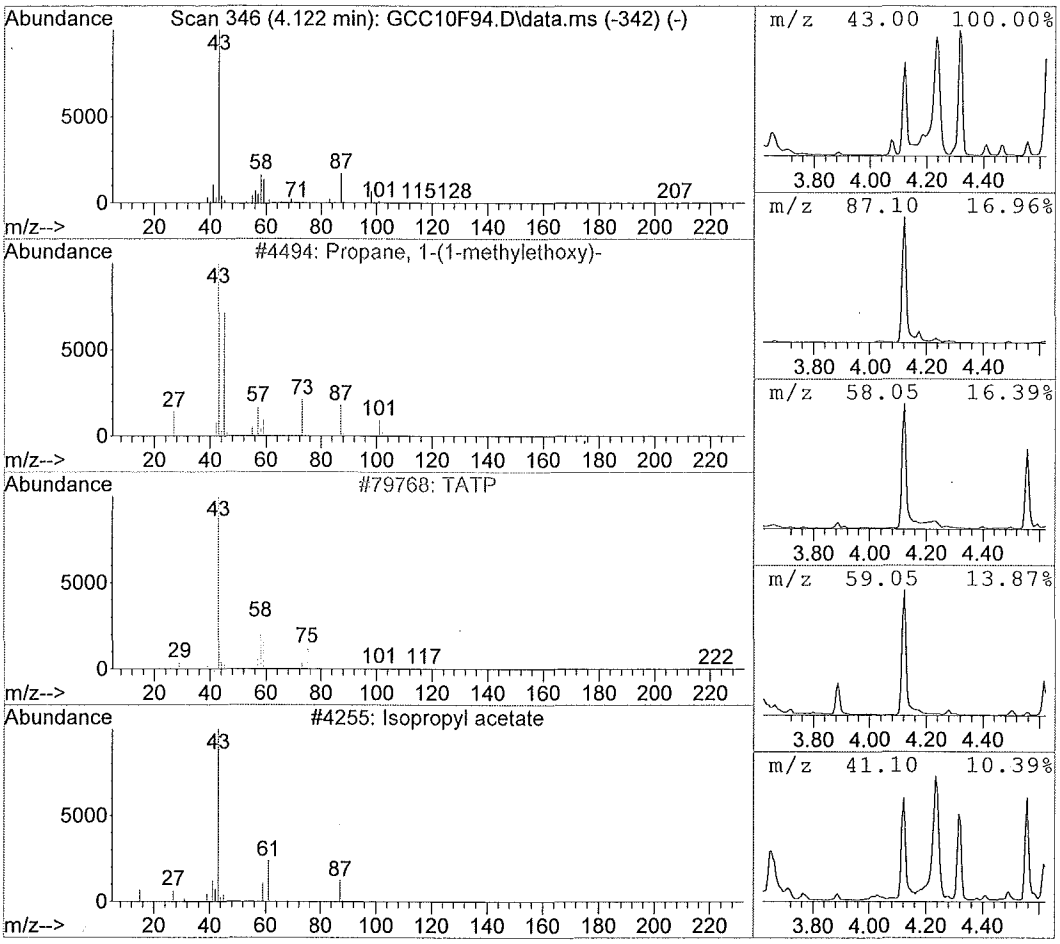


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.12	13.80 ug/ml	1476741	1,4-Dichlorobenzene-d4	2140191

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 1-(1-methylethoxy)-	4494	000627-08-7	33.00
2	TATP	79768	017088-37-8	32.00
3	Isopropyl acetate	4255	000108-21-4	25.00
4	2-Nonanone	19930	000821-55-6	23.00
5	2-Butanol, 3-methyl-, acetate	13489	005343-96-4	17.00



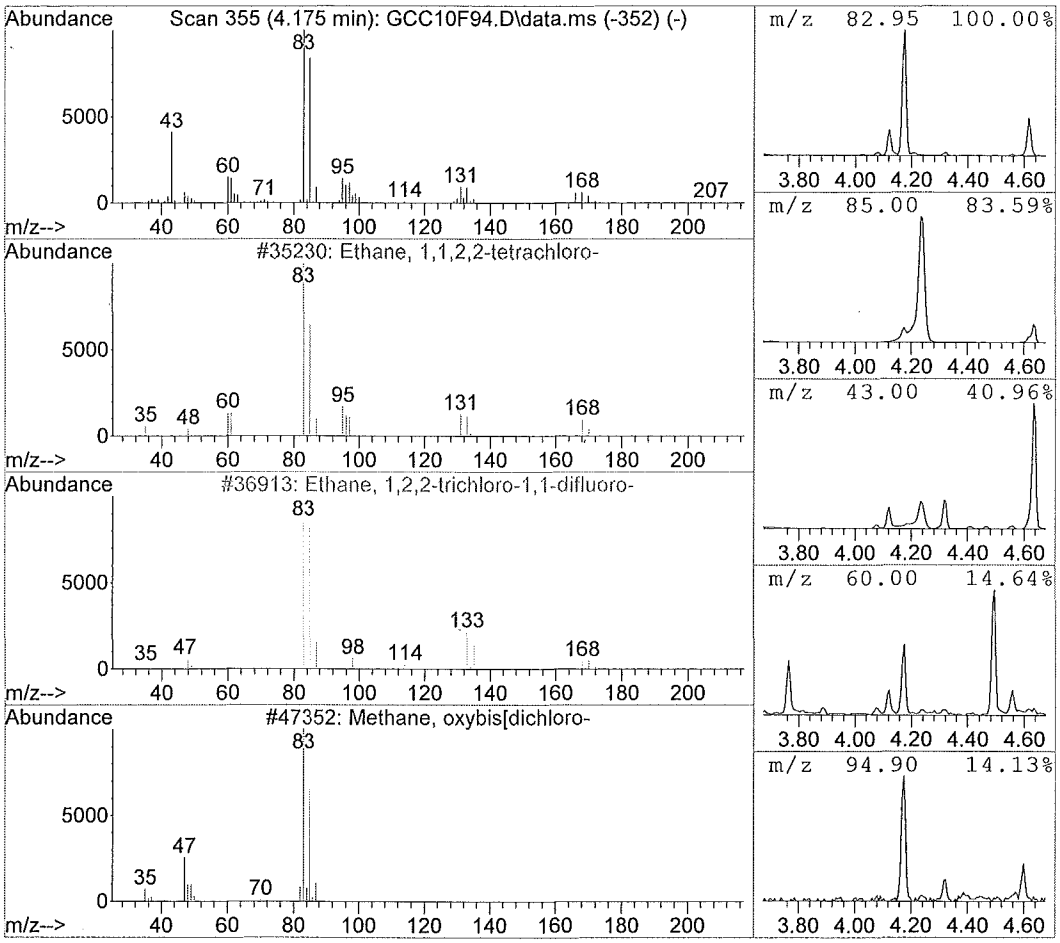
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.17	5.69 ug/ml	608978	1,4-Dichlorobenzene-d4	2140191

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	35230	000079-34-5	91.00
2	Ethane, 1,2,2-trichloro-1,1-difluor VOA	36913	000354-21-2	58.00
3	Methane, oxybis[dichloro-	47352	020524-86-1	42.00
4	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	39.00
5	Butanoic acid, 3-oxo-, 2,2,2-trichl	87859	058547-15-2	37.00

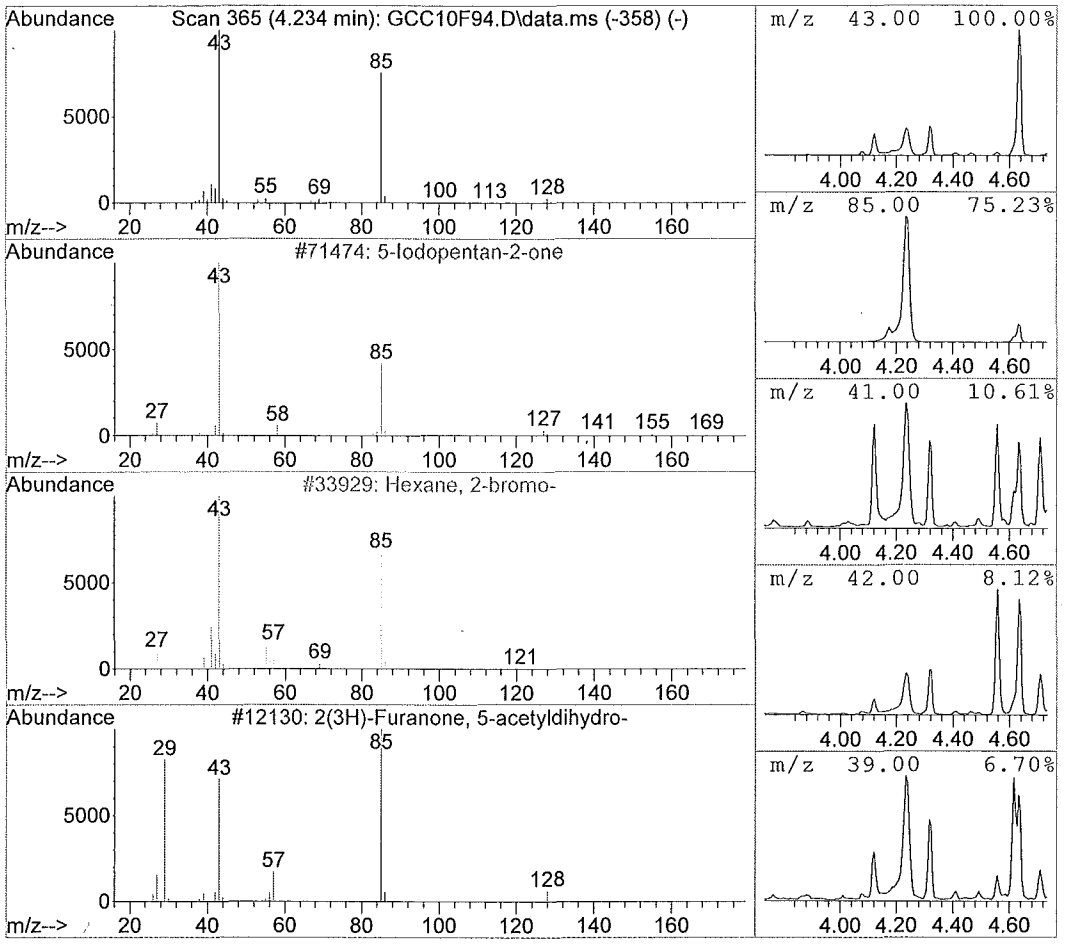


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.23	31.45 ug/ml	3365222	1,4-Dichlorobenzene-d4	2140191

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	5-Iodopentan-2-one	71474	003695-29-2	64.00
2	Hexane, 2-bromo-	33929	003377-86-4	64.00
3	2(3H)-Furanone, 5-acetyldihydro-	12130	029393-32-6	50.00
4	2-Pyrrolidinone	1541	000616-45-5	42.00
5	Hexane, 3-bromo-	33925	003377-87-5	40.00

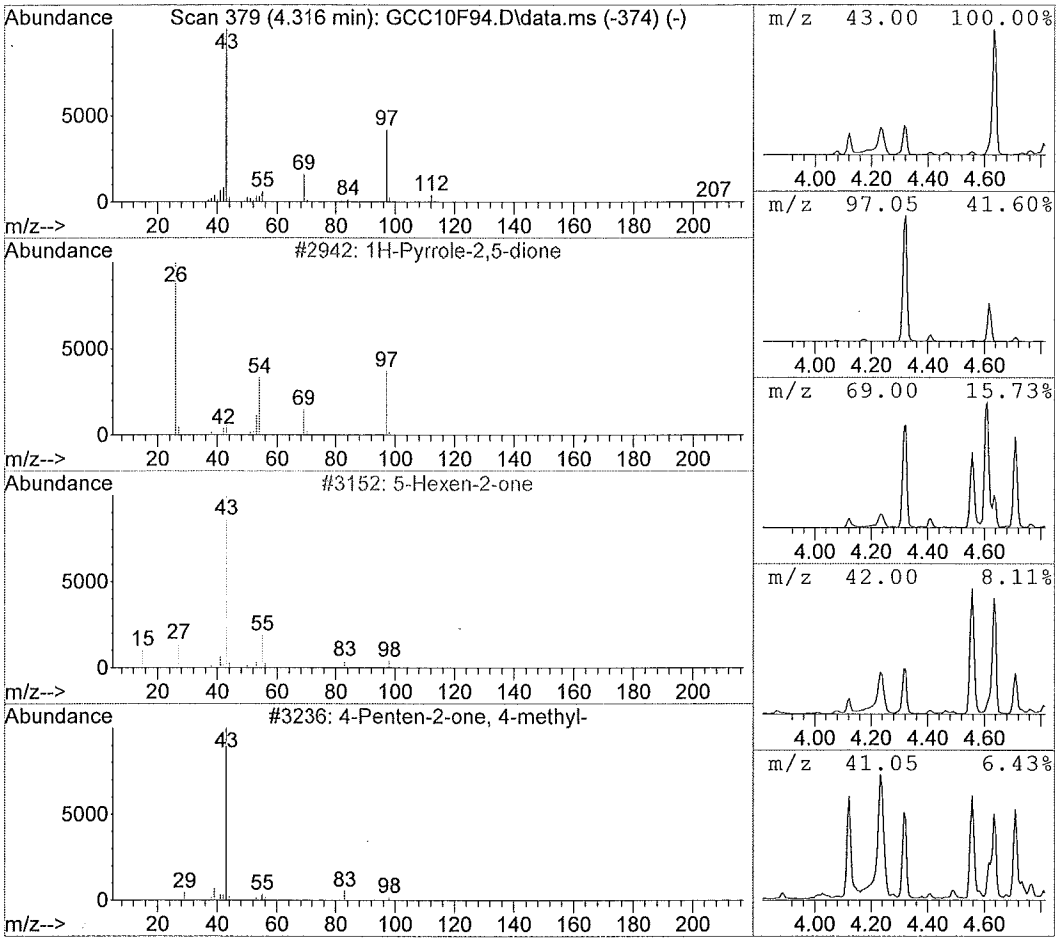


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.32	19.13 ug/ml	2047488	1,4-Dichlorobenzene-d4	2140191

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	40.00
2	5-Hexen-2-one	3152	000109-49-9	9.00
3	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
4	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00
5	2-Propyn-1-ol, acetate	3098	000627-09-8	5.00



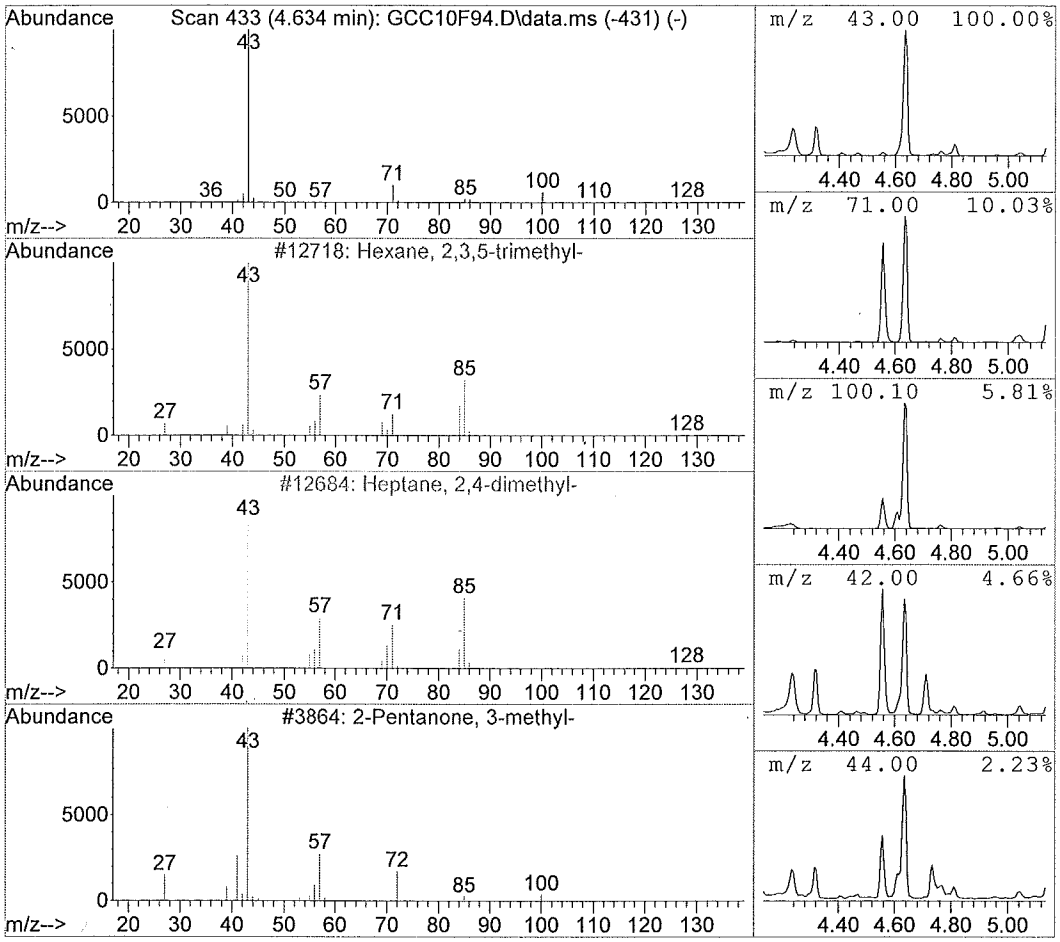
Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.63	48.75 ug/ml	5216623	1,4-Dichlorobenzene-d4	2140191

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
2	Heptane, 2,4-dimethyl-	12684	002213-23-2	5.00
3	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
4	1-Butanol, 2-methylene-, acetate	12273	055670-09-2	5.00
5	2,3-Pentanedione	3673	000600-14-6	5.00

BA



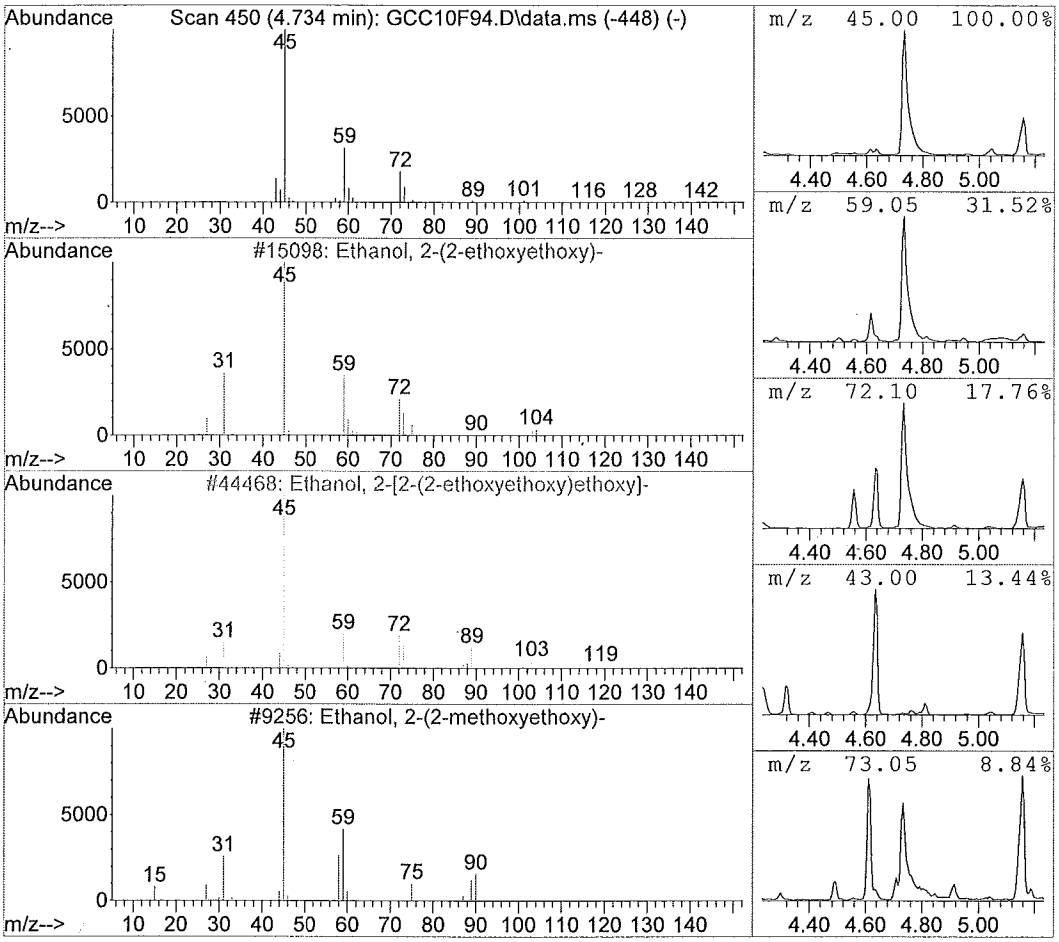
00715

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.73	9.04 ug/ml	967057	1,4-Dichlorobenzene-d4	2140191

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanol, 2-(2-ethoxyethoxy)-	15098	000111-90-0	64.00
2	Ethanol, 2-[2-(2-ethoxyethoxy)ethox	44468	000112-50-5	43.00
3	Ethanol, 2-(2-methoxyethoxy)-	9256	000111-77-3	39.00
4	2-Pentanol	2094	006032-29-7	36.00
5	1-Propanol, 3-mercapto-	2423	019721-22-3	9.00



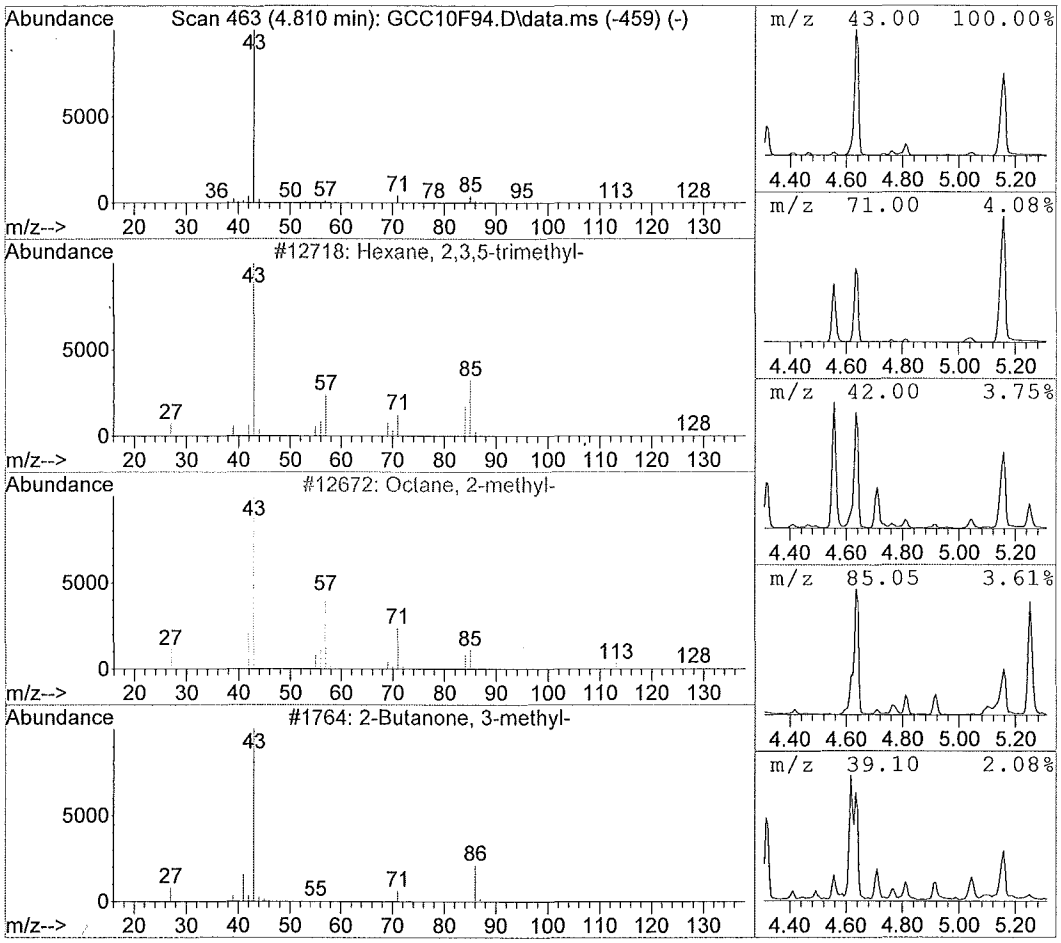
Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.81	5.51 ug/ml	590070	1,4-Dichlorobenzene-d4	2140191

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	5.00
2	Octane, 2-methyl-	12672	003221-61-2	4.00
3	2-Butanone, 3-methyl-	1764	000563-80-4	4.00
4	Octane, 4-methyl-	12674	002216-34-4	3.00
5	Butane, 2,3-dimethyl-	1832	000079-29-8	3.00

BA

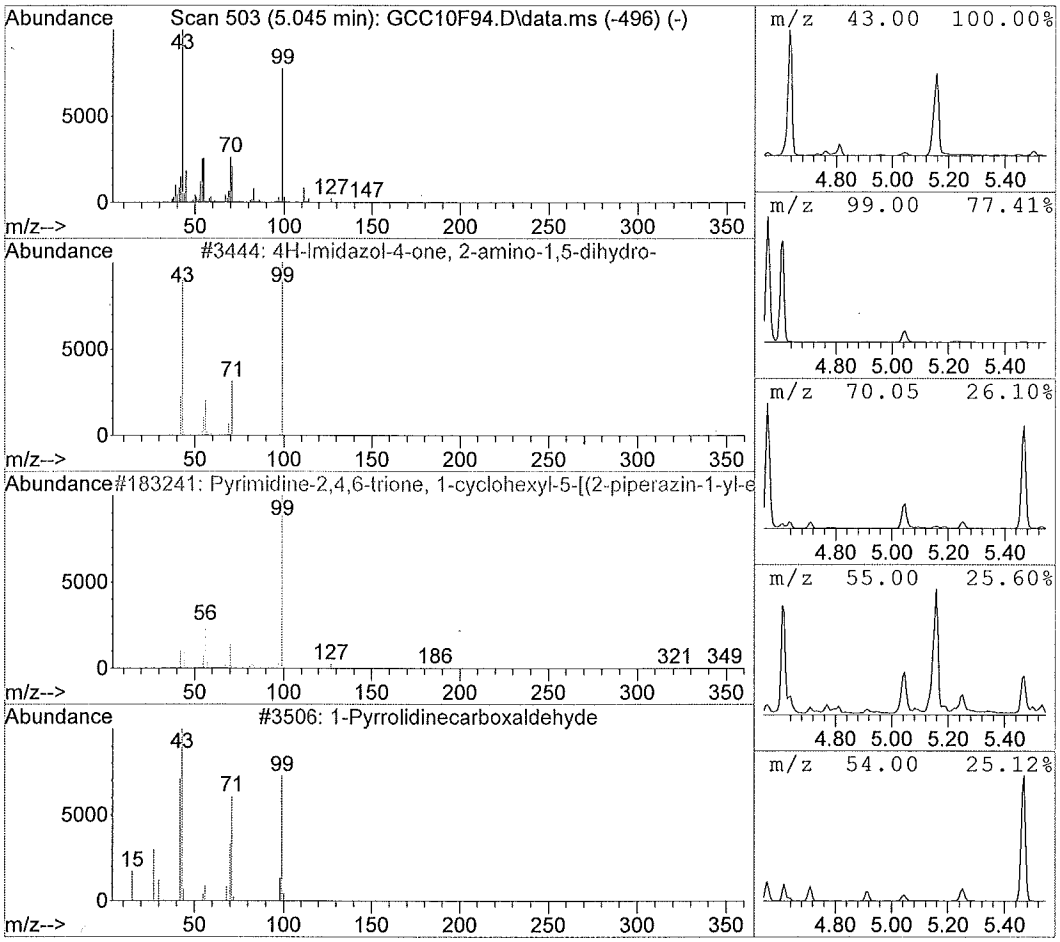


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.05	5.69 ug/ml	608970	1,4-Dichlorobenzene-d4	2140191

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4H-Imidazol-4-one, 2-amino-1,5-dihy	3444	000503-86-6	49.00
2	Pyrimidine-2,4,6-trione, 1-cyclohex	183241	1000304-66-3	38.00
3	1-Pyrrolidinecarboxaldehyde	3506	003760-54-1	38.00
4	1H-1,2,3,4-Tetrazol-5-amine, 1-meth	3436	1000338-04-0	37.00
5	3,5-Diamino-1,2,4-triazole	3429	001455-77-2	32.00

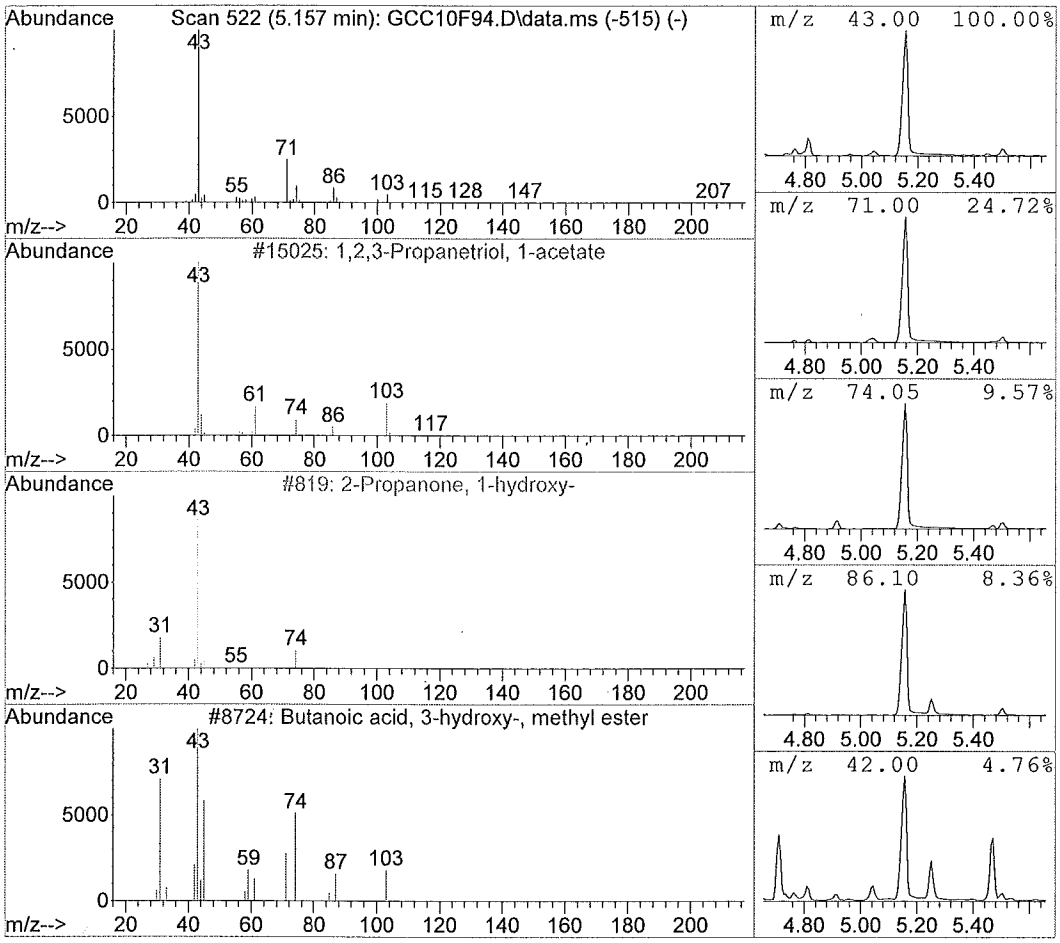


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.16	60.07 ug/ml	6428340	1,4-Dichlorobenzene-d4	2140191

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	32.00
2	2-Propanone, 1-hydroxy-	819	000116-09-6	27.00
3	Butanoic acid, 3-hydroxy-, methyl e	8724	001487-49-6	12.00
4	1-Propanol, 2-methyl-	856	000078-83-1	10.00
5	2,3-Butanedione	1661	000431-03-8	9.00

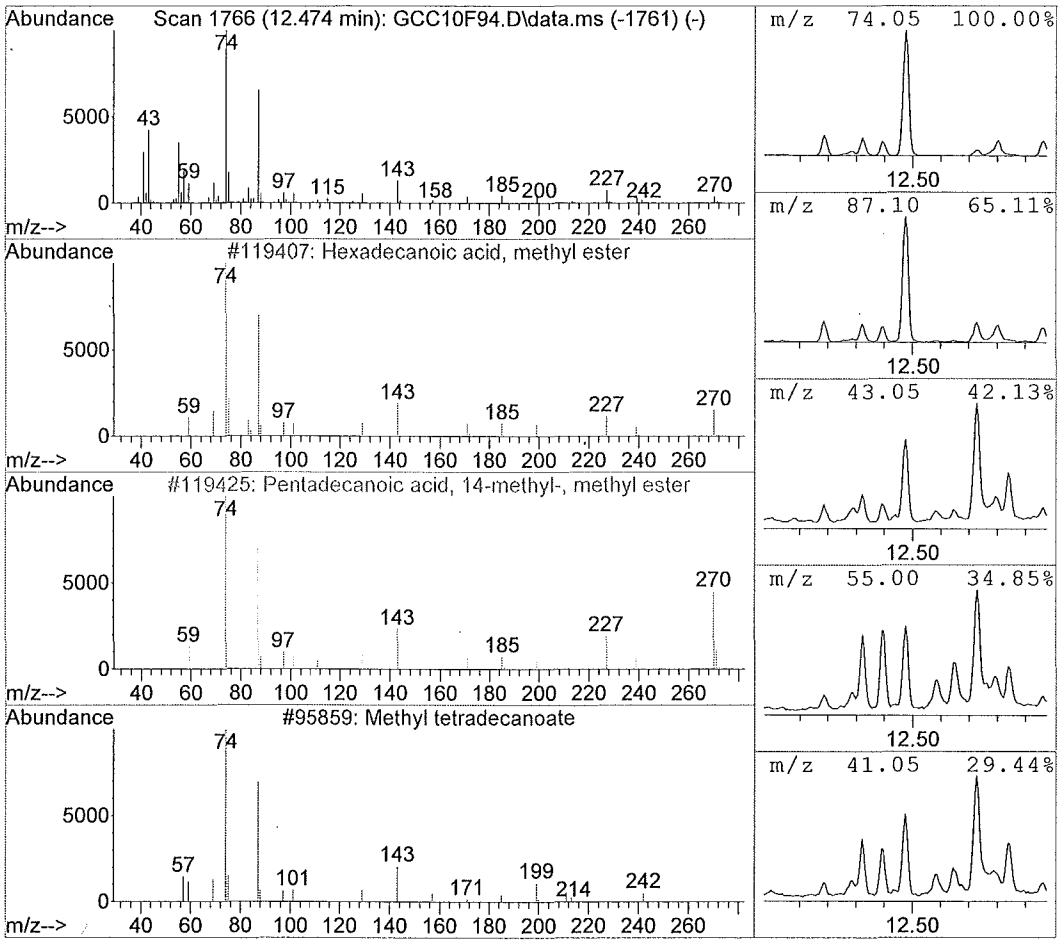


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.47	7.19 ug/ml	1032836	Phenanthrene-d10	2873818

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, methyl ester	119407	000112-39-0	98.00
2	Pentadecanoic acid, 14-methyl-, met	119425	005129-60-2	95.00
3	Methyl tetradecanoate	95859	000124-10-7	94.00
4	Tridecanoic acid, methyl ester	84485	001731-88-0	93.00
5	Pentadecanoic acid, methyl ester	107596	007132-64-1	90.00

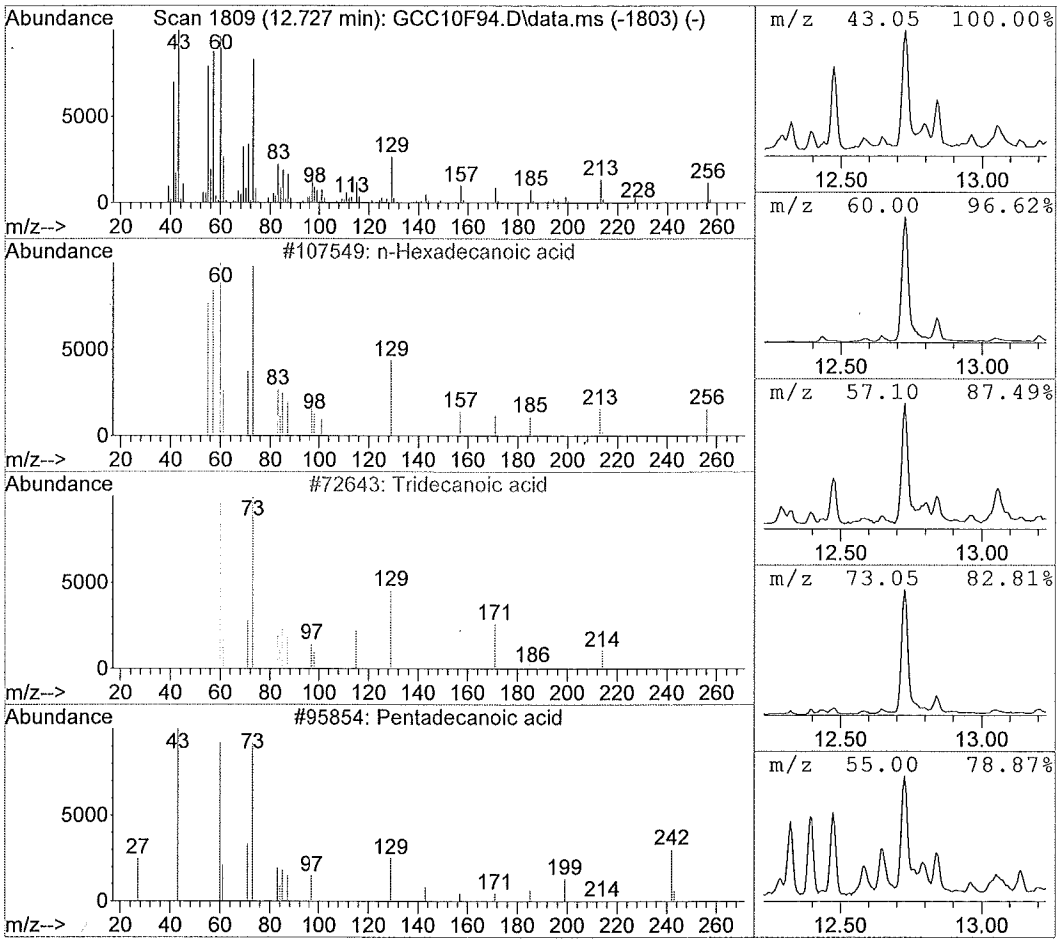


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.73	11.63 ug/ml	1670626	Phenanthrene-d10	2873818

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Tridecanoic acid	72643	000638-53-9	93.00
3	Pentadecanoic acid	95854	001002-84-2	83.00
4	Undecanoic acid	50052	000112-37-8	64.00
5	Tetradecanoic acid	84453	000544-63-8	64.00



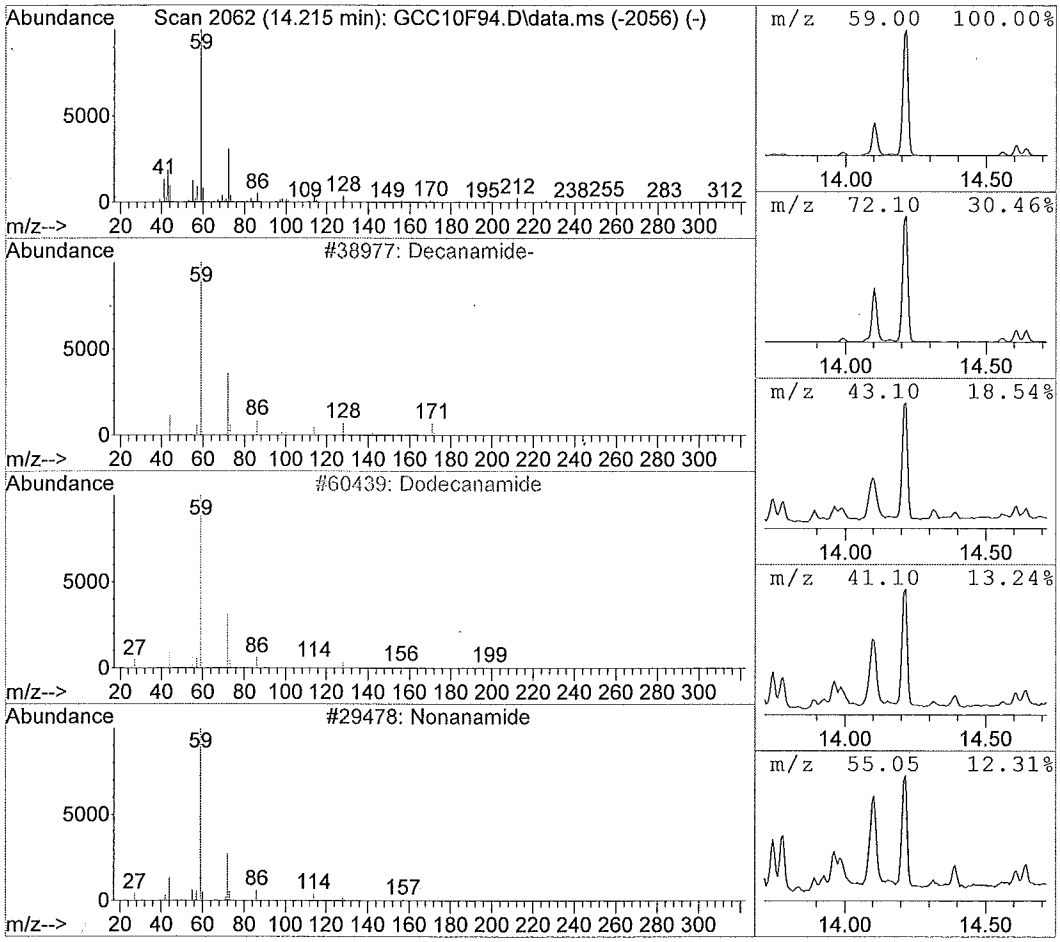
: 99724

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.22	18.52 ug/ml	2778710	Chrysene-d12	3000779

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decanamide-	38977	002319-29-1	91.00
2	Dodecanamide	60439	001120-16-7	90.00
3	Nonanamide	29478	001120-07-6	78.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	78.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	72.00

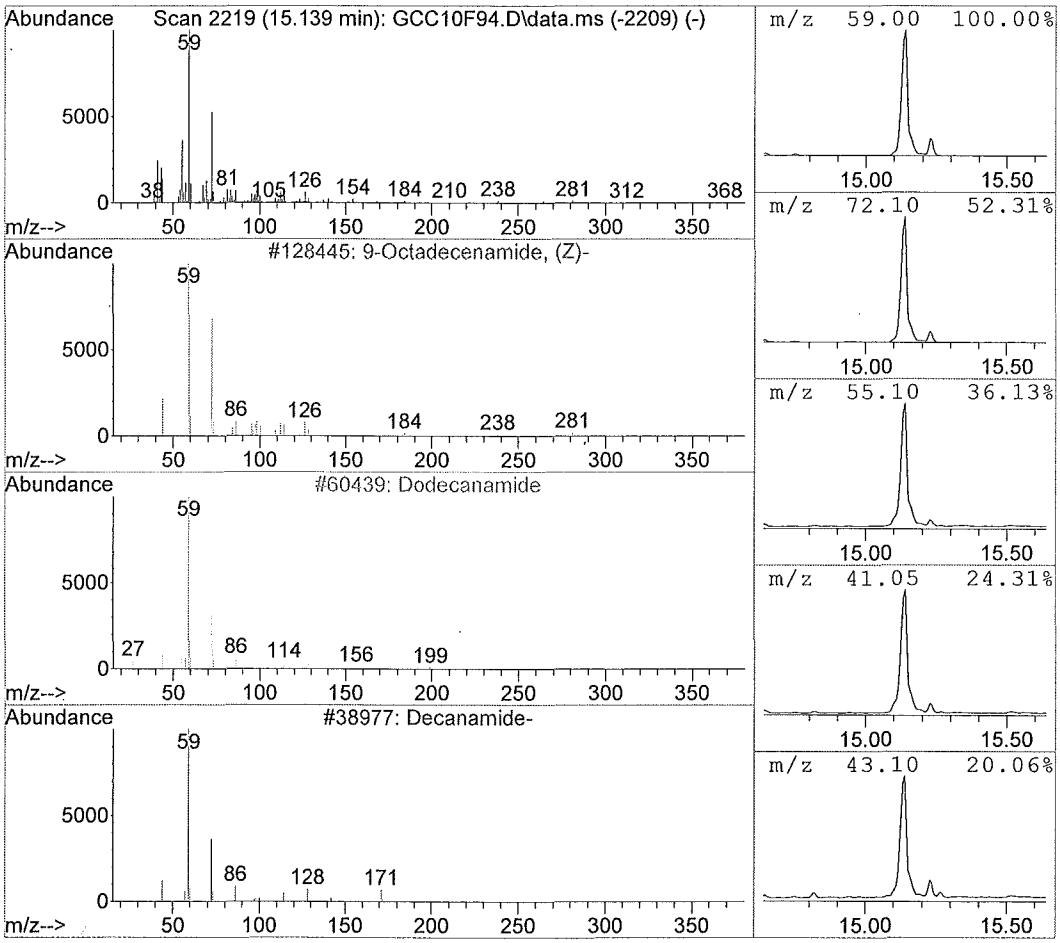


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.14	131.92 ug/ml	19792581	Chrysene-d12	3000779

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	96.00
2	Dodecanamide	60439	001120-16-7	59.00
3	Decanamide-	38977	002319-29-1	56.00
4	Hexadecanamide	106565	000629-54-9	56.00
5	Tetradecanamide	83609	000638-58-4	45.00

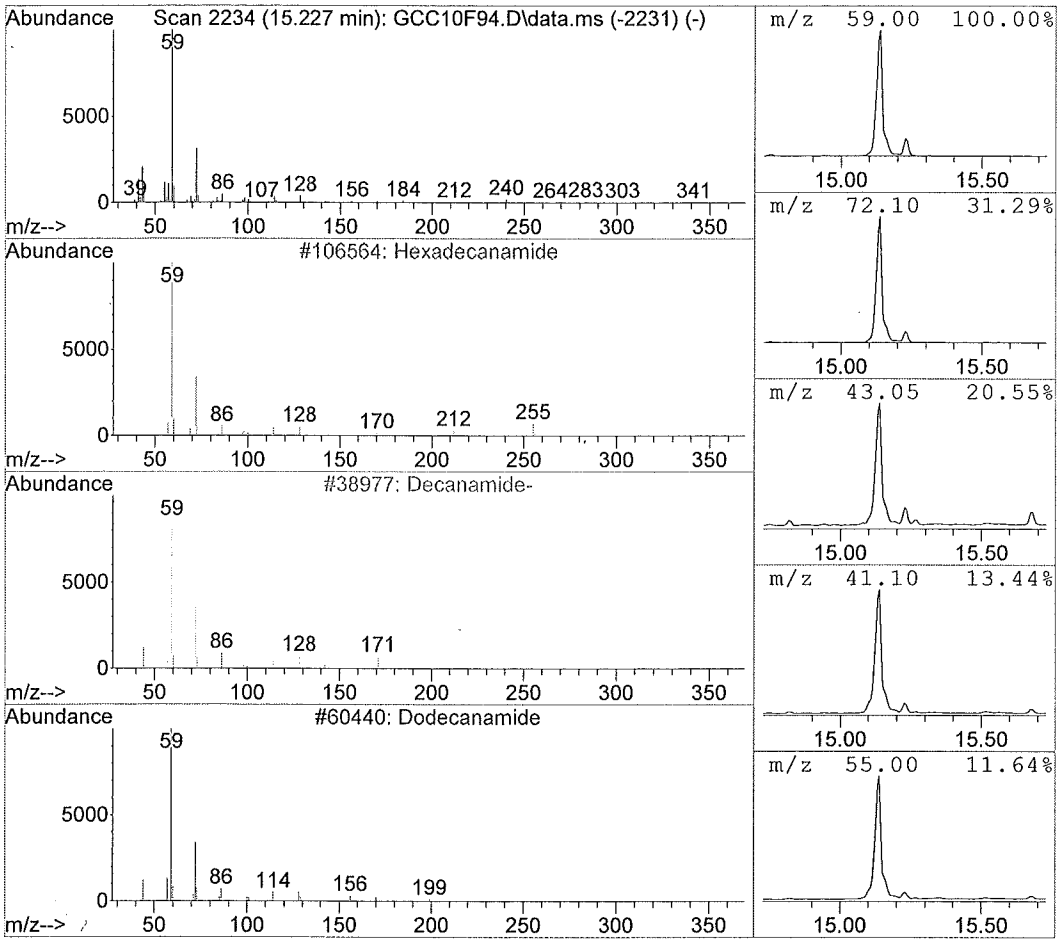


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.23	6.90 ug/ml	1035975	Chrysene-d12	3000779

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	94.00
2	Decanamide-	38977	002319-29-1	86.00
3	Dodecanamide	60440	001120-16-7	78.00
4	Tetradecanamide	83608	000638-58-4	78.00
5	Octanamide	20317	000629-01-6	64.00

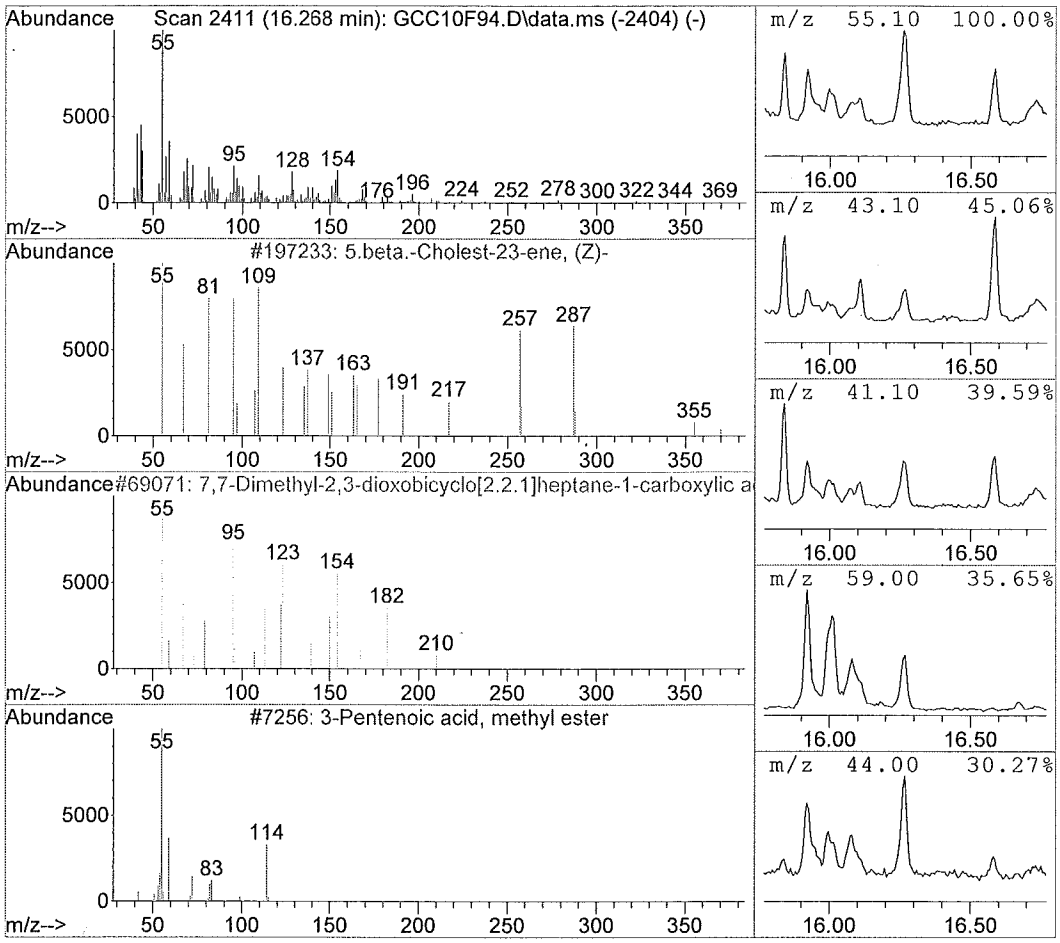


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.27	6.42 ug/ml	963874	Chrysene-d12	3000779

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	5.beta.-Cholest-23-ene, (Z)-	197233	014949-12-3	14.00
2	7,7-Dimethyl-2,3-dioxobicyclo[2.2.1	69071	040724-68-3	12.00
3	3-Pentenoic acid, methyl ester	7256	000818-58-6	12.00
4	Cyclododecanol, 1-aminomethyl-	71955	000832-29-1	10.00
5	Tridecanedial	71064	063521-76-6	10.00



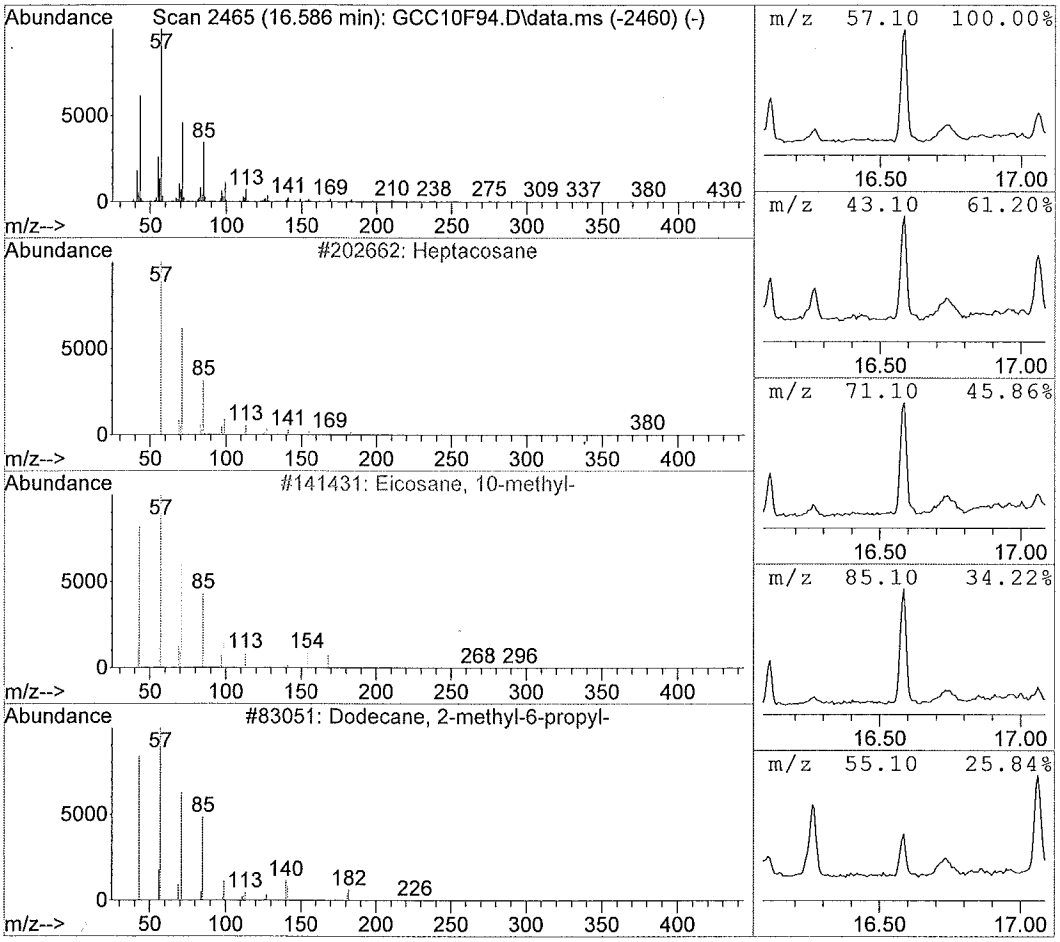
Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.59	7.01 ug/ml	1052013	Chrysene-d12	3000779

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	98.00
2	Eicosane, 10-methyl-	141431	054833-23-7	94.00
3	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	93.00
4	Tetracosane	175557	000646-31-1	91.00
5	Hexacosane	194494	000630-01-3	90.00

SA

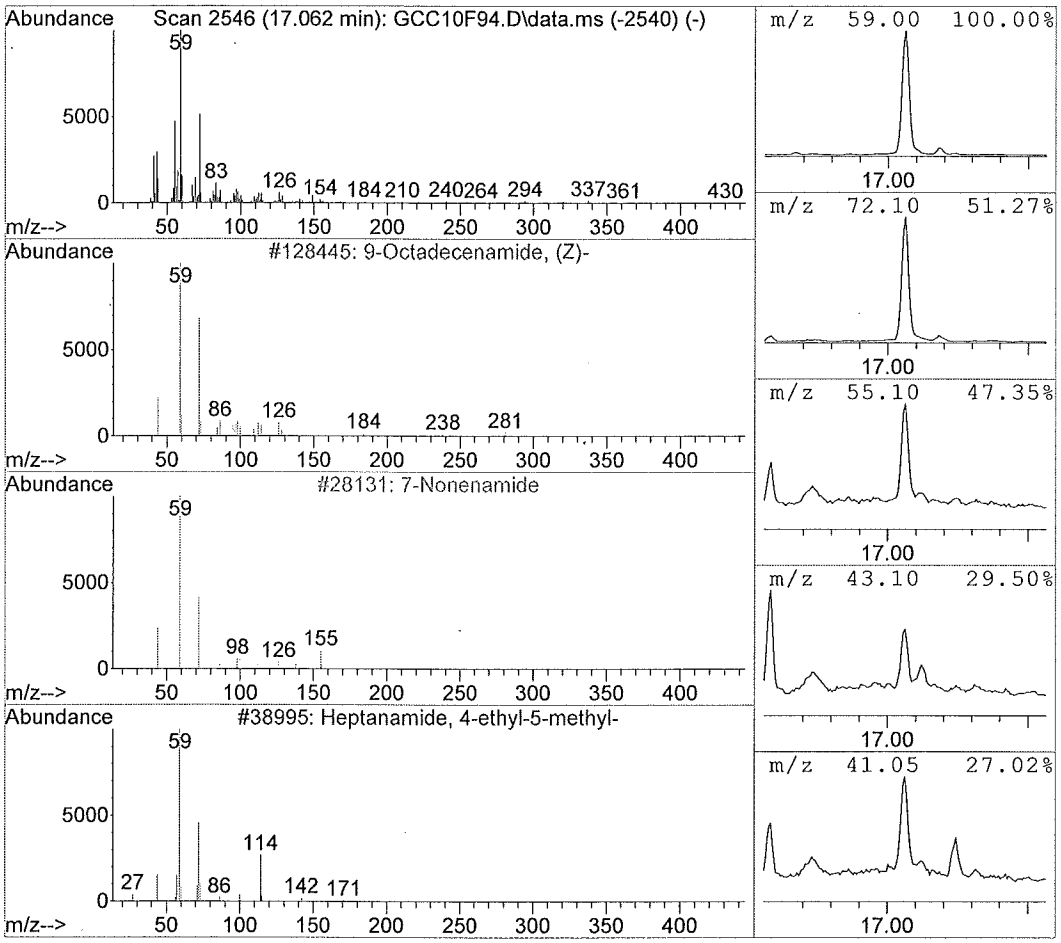


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.06	16.70 ug/ml	1689871	Perylene-d12	2023676

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	86.00
2	7-Nonenamide	28131	090949-53-4	72.00
3	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	64.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00
5	Nonanamide	29478	001120-07-6	53.00

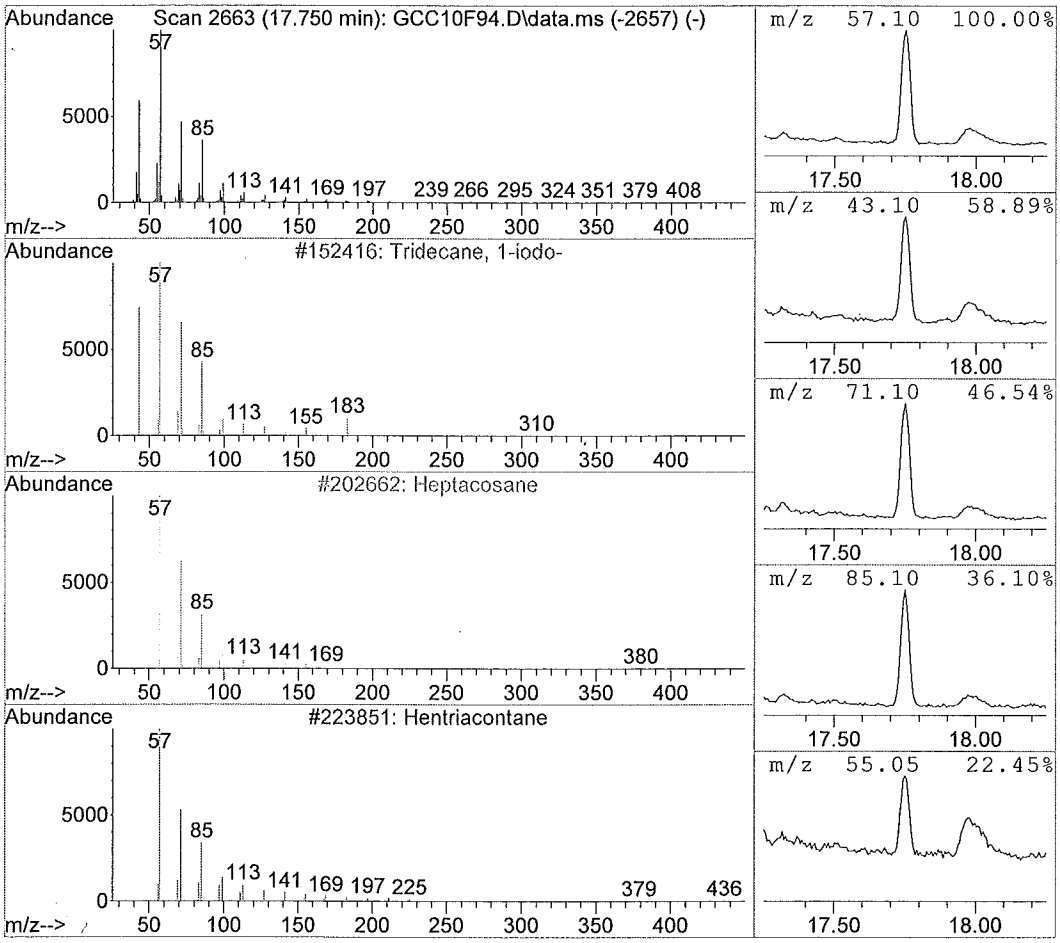


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.75	12.94 ug/ml	1309628	Perylene-d12	2023676

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane, 1-iodo-	152416	035599-77-0	93.00
2	Heptacosane	202662	000593-49-7	91.00
3	Hentriacontane	223851	000630-04-6	91.00
4	Tetratetracontane	241528	007098-22-8	90.00
5	Nonadecane, 9-methyl-	129499	013287-24-6	89.00

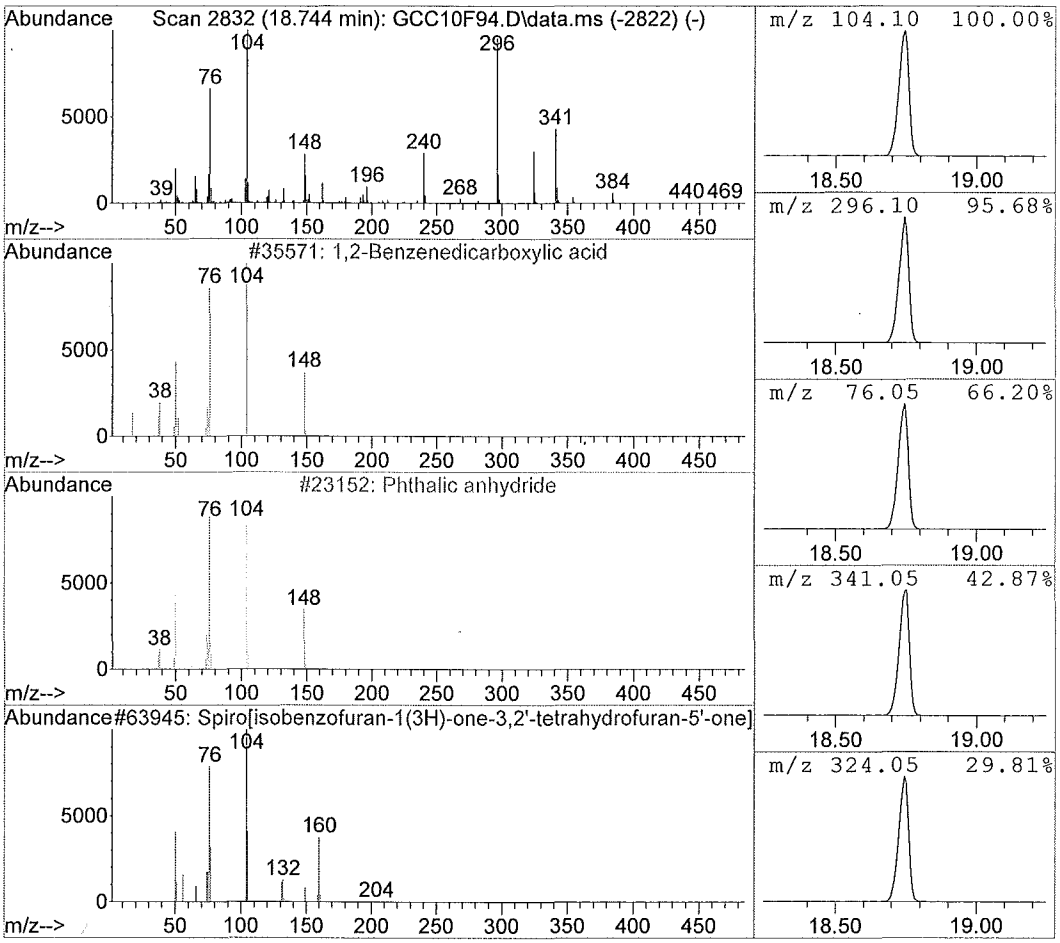


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.74	52.18 ug/ml	5279786	Perylene-d12	2023676

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Benzenedicarboxylic acid	35571	000088-99-3	30.00
2	Phthalic anhydride	23152	000085-44-9	27.00
3	Spiro[isobenzofuran-1(3H)-one-3,2'-	63945	054103-04-7	22.00
4	3-Ethylideneisobenzofuranone	30775	004767-63-9	22.00
5	[2.2]Paracyclophane	67982	001633-22-3	11.00



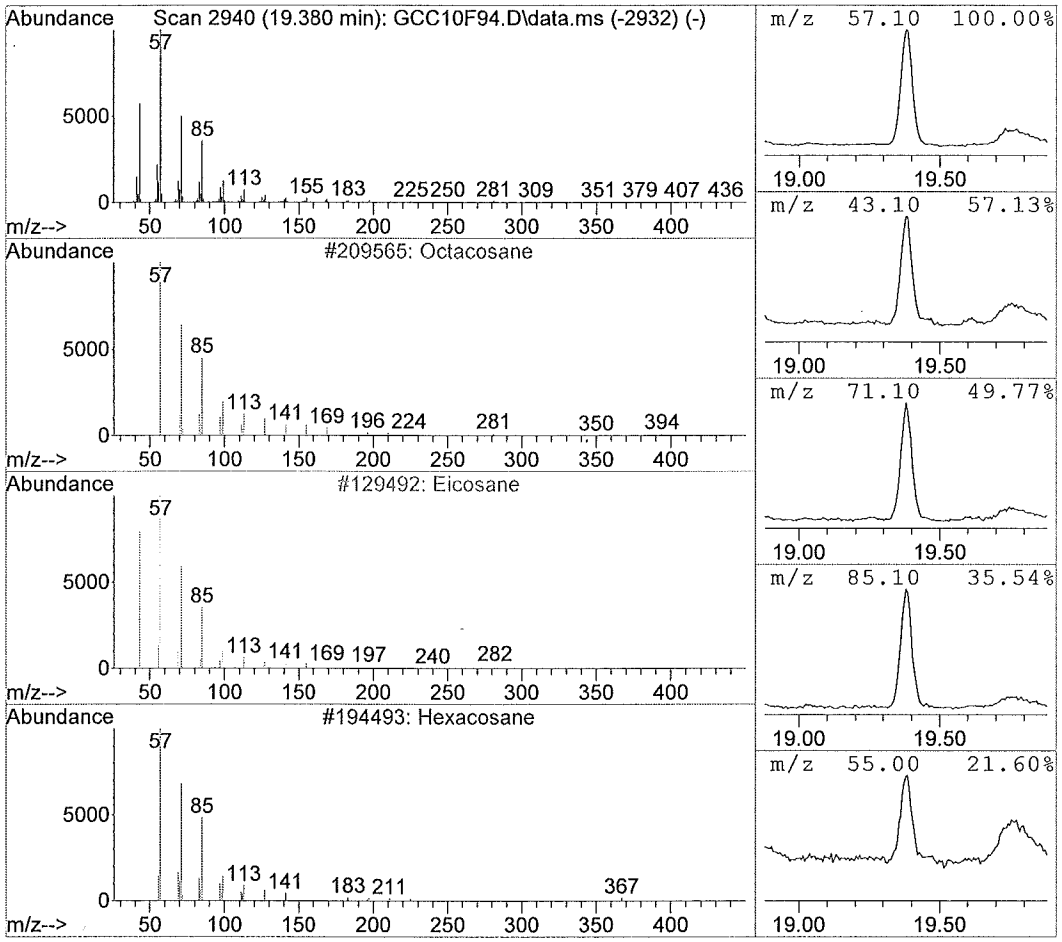
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.38	15.13 ug/ml	1530468	Perylene-d12	2023676

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octacosane	209565	000630-02-4	91.00
2	Eicosane	129492	000112-95-8	90.00
3	Hexacosane	194493	000630-01-3	90.00
4	Hentriacontane	223852	000630-04-6	87.00
5	Tetratetracontane	241527	007098-22-8	86.00

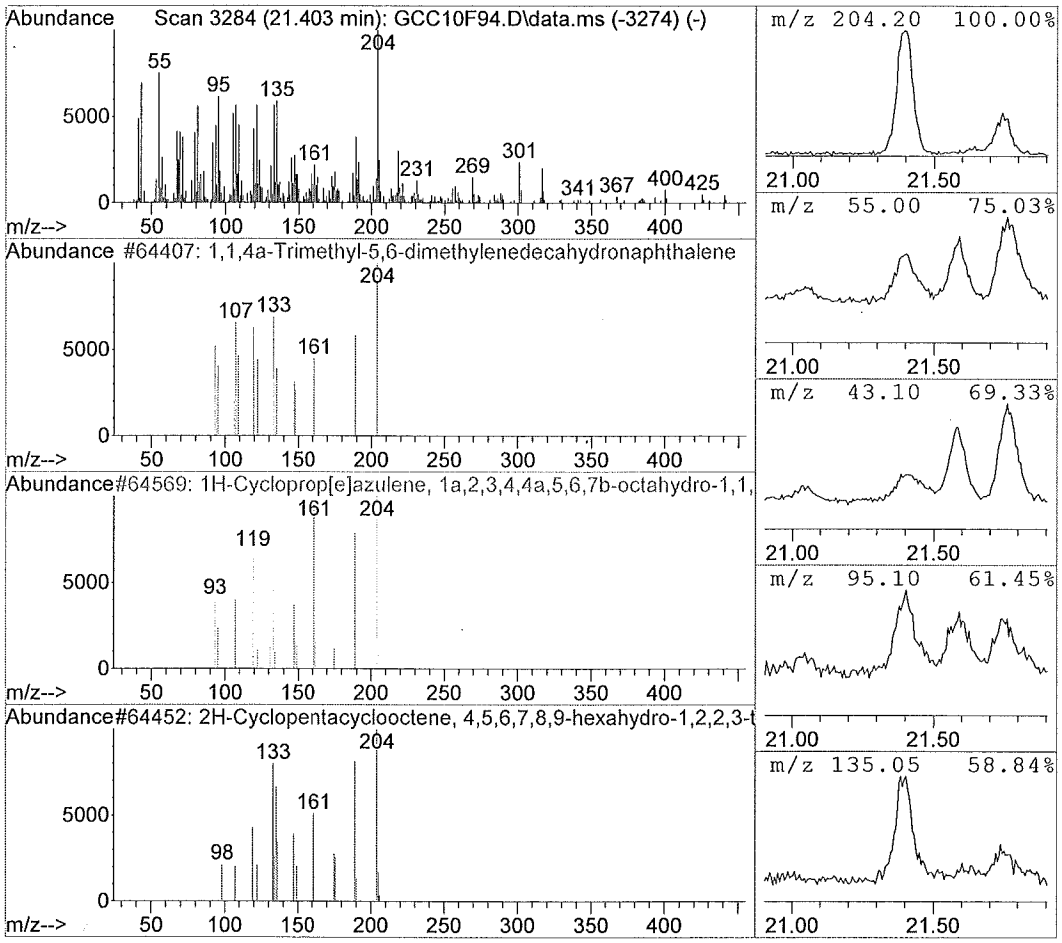


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.40	12.21 ug/ml	1235492	Perylene-d12	2023676

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,1,4a-Trimethyl-5,6-dimethylenedec	64407	1000193-60-8	68.00
2	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64569	000489-40-7	64.00
3	2H-Cyclopentacyclooctene, 4,5,6,7,8	64452	1000221-85-8	60.00
4	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	58.00
5	Guaia-3,9-diene	64297	000489-83-8	49.00

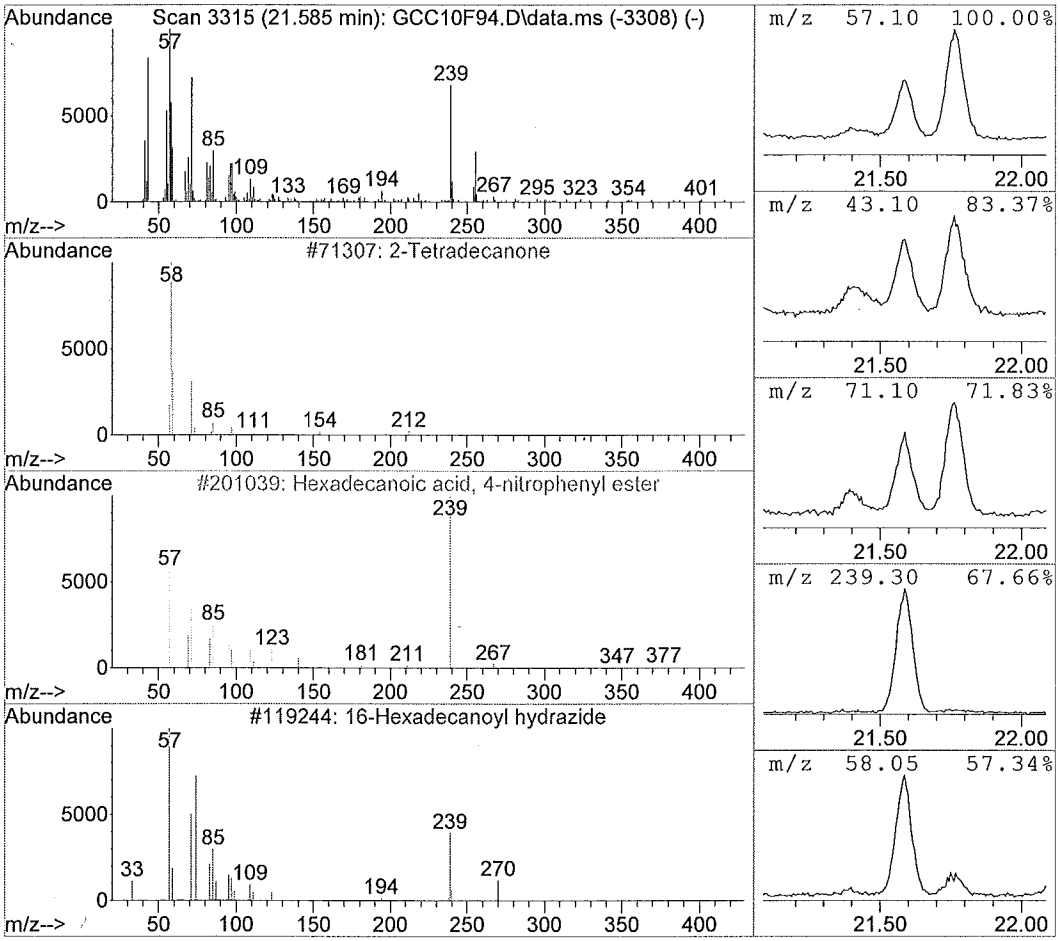


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.59	10.35 ug/ml	1046938	Perylene-d12	2023676

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Tetradecanone	71307	002345-27-9	43.00
2	Hexadecanoic acid, 4-nitrophenyl es	201039	001492-30-4	38.00
3	16-Hexadecanoyl hydrazide	119244	002619-88-7	38.00
4	Palmitic acid vinyl ester	129350	000693-38-9	38.00
5	2-Dodecanone	48718	006175-49-1	32.00



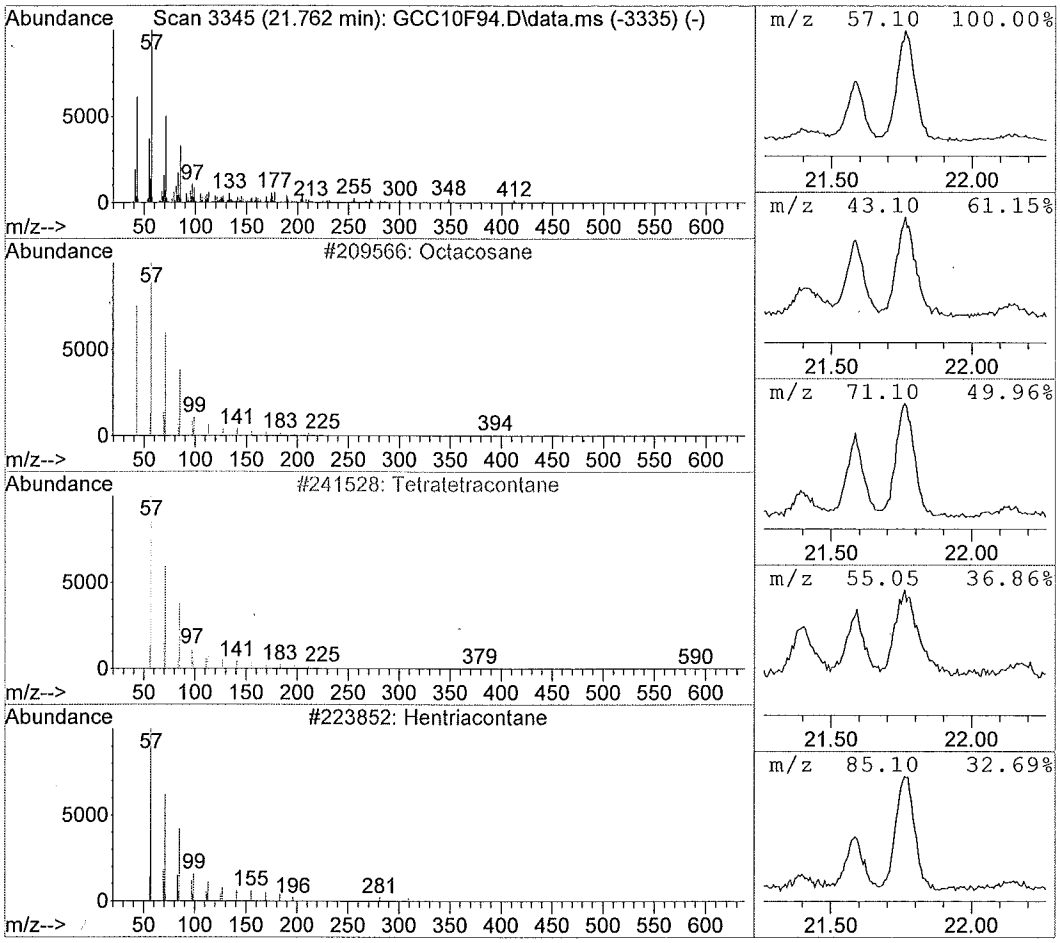
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.76	20.56 ug/ml	2080334	Perylene-d12	2023676

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octacosane	209566	000630-02-4	98.00
2	Tetratetracontane	241528	007098-22-8	87.00
3	Hentriacontane	223852	000630-04-6	87.00
4	Sulfurous acid, butyl tridecyl este	161090	1000309-18-0	83.00
5	Sulfurous acid, butyl tetradecyl es	172308	1000309-18-1	83.00

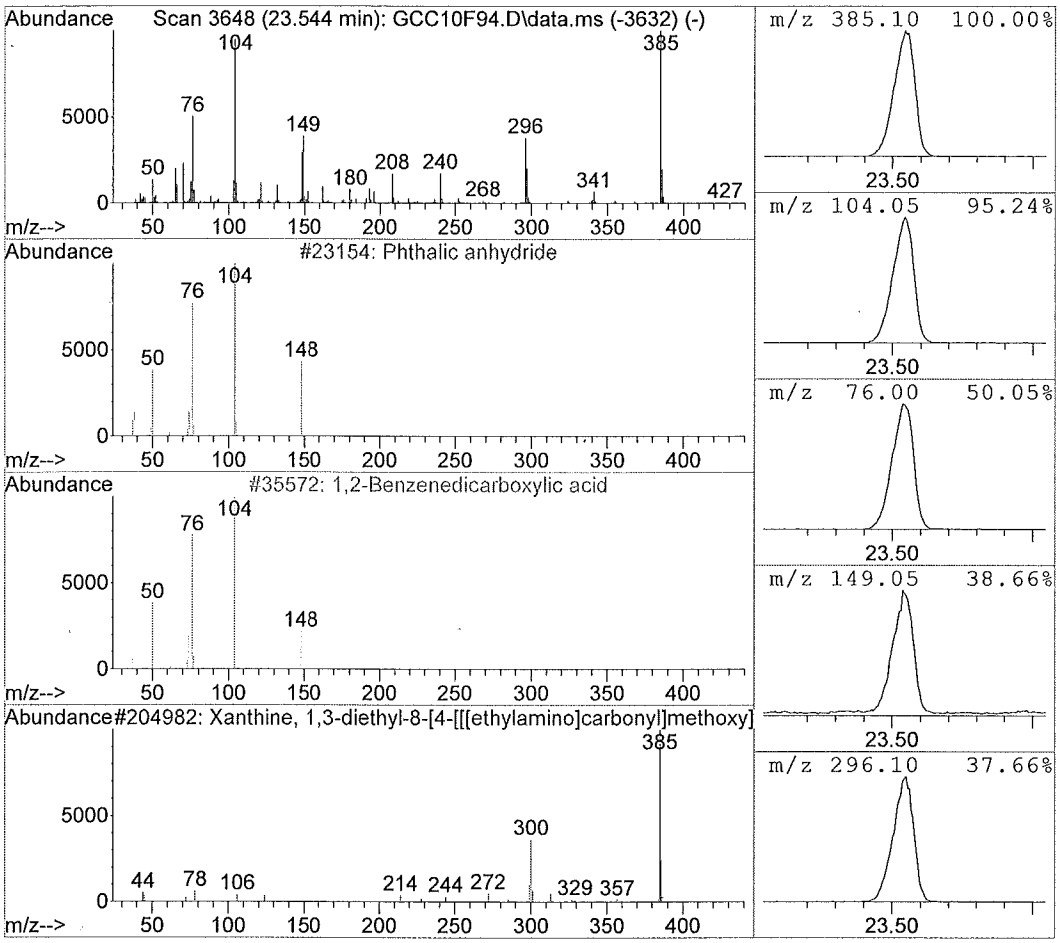


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC10F94.D Vial: 9
Acq On : 06/24/2015 11:53 Operator: SY
Sample : 1515725015 F9M93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.54	50.63 ug/ml	5123070	Perylene-d12	2023676

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23154	000085-44-9	27.00
2	1,2-Benzenedicarboxylic acid	35572	000088-99-3	16.00
3	Xanthine, 1,3-diethyl-8-[4-[[[ethyl	204982	104576-48-9	14.00
4	Spiro[isobenzofuran-1(3H)-one-3,2'-	63945	054103-04-7	12.00
5	Indane-1,3(2H)-dione, 2-(2-methyl-3	175770	1000263-60-8	12.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M94

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725016

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCB15F94

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M94

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725016

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCB15F94

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	90.	J
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	24.	J
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M94

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725016
Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCB15F94
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 12. Decanted: (Y/N) N Date Received: 06/05/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015
GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Propanone, 1-hydroxy-	2.18	310	J
02		Unknown 2-Pentanone, 4-hydroxy-	3.35	1200	JB
03		Unknown Guanidine	3.57	22000	J
04		Unknown 2-Nonanone	4.12	610	JB
05		Unknown 2(3H)-Furanone, 5-acetyldihydro-	4.23	1200	J
06		Unknown 1H-Pyrrole-2,5-dione	4.32	780	J
07		Unknown Ethanol, 2-(2-ethoxyethoxy)-	4.73	300	J
08		Unknown 2-Pentanone	4.81	230	J
09		Unknown 1,2,3-Propanetriol, 1-acetate	5.16	2500	J
10	112-39-0	Hexadecanoic acid, methyl ester	12.47	290	JN
11	57-10-3	n-Hexadecanoic acid	12.73	450	JN
12	2319-29-1	Decanamide-	12.84	180	JN
13		Unknown 4H-Furo[3,2-g][1]benzopyran-4,7,9-trione	13.07	140	J
14	301-00-8	9,12,15-Octadecatrienoic acid, methyl ester, (Z,	13.74	210	JN
15	2319-29-1	Decanamide-	14.21	730	JN
16	301-02-0	9-Octadecenamide, (Z)-	15.14	6600	JNB
17	629-54-9	Hexadecanamide	15.23	280	JNB
18	301-02-0	9-Octadecenamide, (Z)-	17.06	1700	JN
19		Unknown 1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-	21.39	640	J
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	3400	J

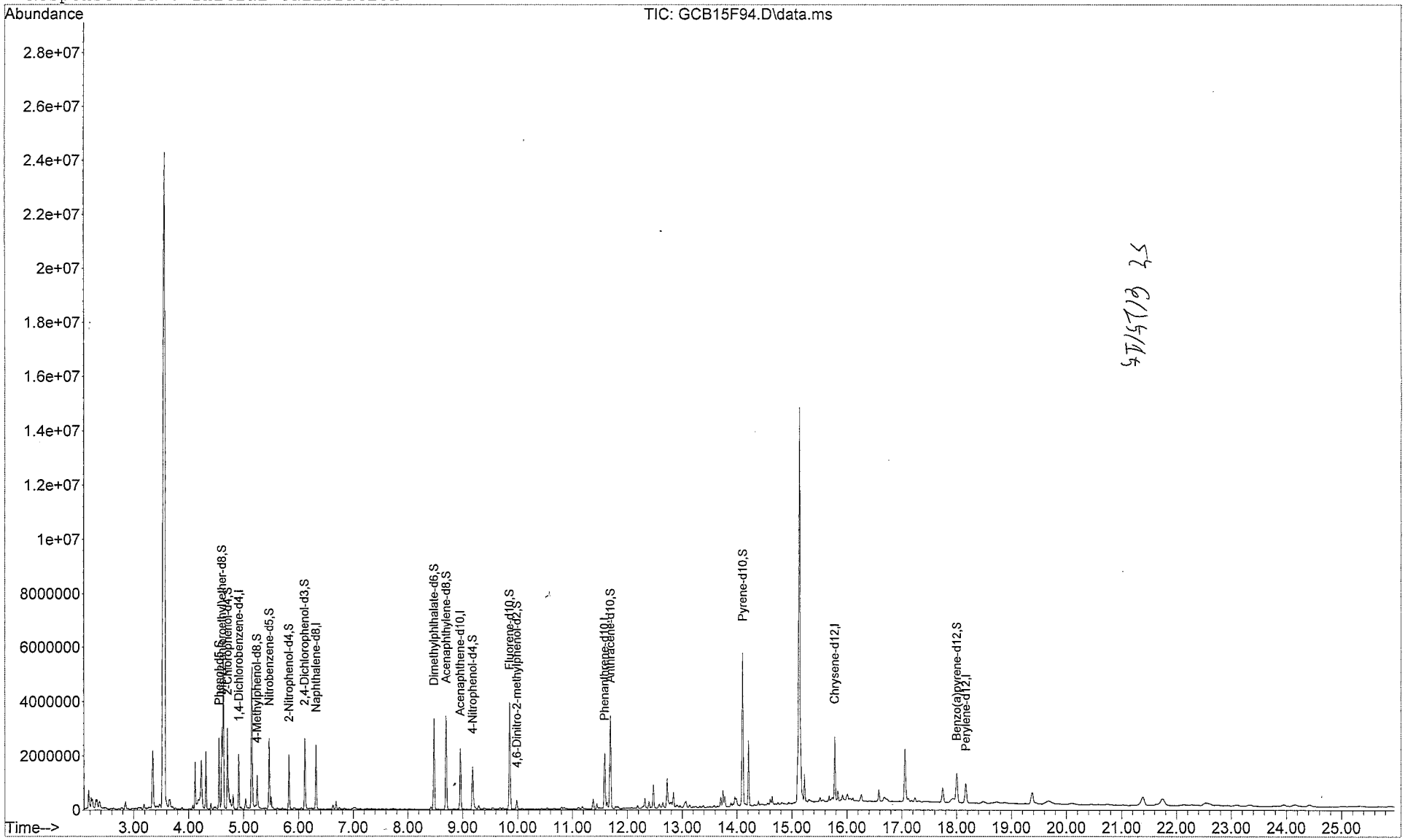
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB15F94.D Vial: 37
Acq On : 06/24/2015 00:45 Operator: TJM
Sample : 1515725016 F9M94 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 24 13:38:30 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration



4/15/15 2.5

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB15F94.D Vial: 37
Acq On : 06/24/2015 00:45 Operator: TJM
Sample : 1515725016 F9M94 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 24 13:38:30 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.92	152	300833	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1197361	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	701694	20.00 ug/ml
59) Phenanthrene-d10	11.59	188	1185361	20.00 ug/ml
73) Chrysene-d12	15.78	240	1018954	20.00 ug/ml
81) Perylene-d12	18.17	264	501443	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.56	99	908671	34.710ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	628005	30.782ug/mL
7) 2-Chlorophenol-d4	4.71	132	741638	33.553ug/ml
13) 4-Methylphenol-d8	5.25	113	263351	15.040ug/mL
17) Nitrobenzene-d5	5.47	128	342087	32.522ug/ml
21) 2-Nitrophenol-d4	5.83	143	348041	31.304ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	569938	32.921ug/mL
28) 4-Chloroaniline-d4	6.40	131	5460	0.289ug/mL
42) Dimethylphthalate-d6	8.48	166	1776549	40.375ug/mL
45) Acenaphthylene-d8	8.70	160	2083052	34.836ug/mL
50) 4-Nitrophenol-d4	9.18	143	375026	41.779ug/mL
57) Fluorene-d10	9.86	176	1484893	39.516ug/mL
61) 4,6-Dinitro-2-methylphenol	9.99	200	56305	6.692ug/mL
69) Anthracene-d10	11.69	188	2069717	32.926ug/mL
75) Pyrene-d10	14.10	212	2126892	41.826ug/mL
86) Benzo(a)pyrene-d12	18.00	264	746176	31.054ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

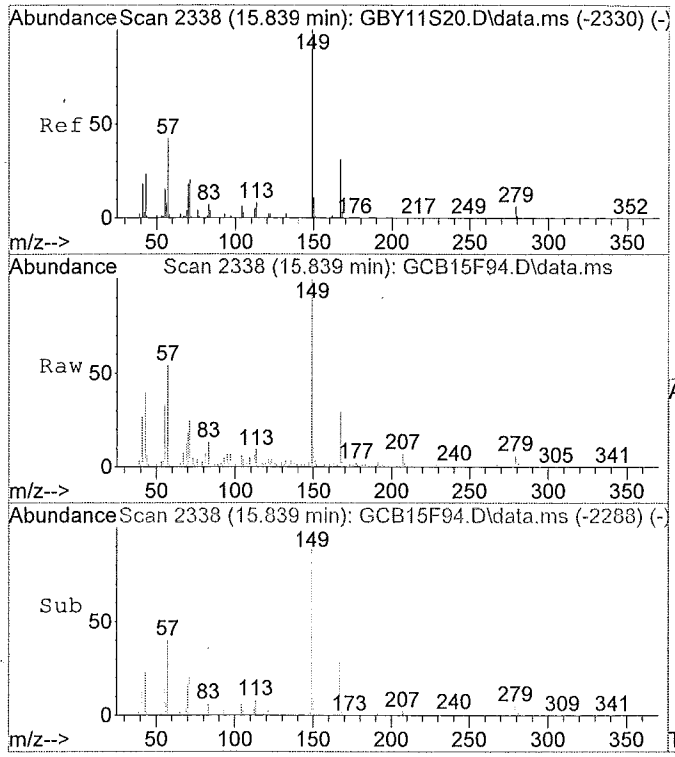
Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB15F94.D Vial: 37
Acq On : 06/24/2015 00:45 Operator: TJM
Sample : 1515725016 F9M94 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 24 13:38:30 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	0.00	152		Not Detected	
46)	3-Nitroaniline	0.00	138		Not Detected	
47)	Acenaphthene	0.00	153		Not Detected	
48)	2,4-Dinitrophenol	0.00	184		Not Detected	
49)	4-Nitrophenol	0.00	109		Not Detected	
51)	Dibenzofuran	0.00	168		Not Detected	
52)	2,4-Dinitrotoluene	0.00	165		Not Detected	
53)	2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54)	Diethylphthalate	0.00	149		Not Detected	
55)	4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56)	Fluorene	0.00	166		Not Detected	
58)	4-Nitroaniline	0.00	138		Not Detected	
60)	4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62)	N-Nitrosodiphenylamine	0.00	169		Not Detected	
63)	4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64)	Hexachlorobenzene	0.00	284		Not Detected	
65)	Atrazine	0.00	200		Not Detected	
66)	Pentachlorophenol	0.00	266		Not Detected	
67)	Phenanthrene	0.00	178		Not Detected	
68)	Anthracene	0.00	178		Not Detected	
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	0.00	202		Not Detected	
74)	Pyrene	0.00	202		Not Detected	
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	0.00	228		Not Detected	
79)	Chrysene	0.00	228		Not Detected	
80)	Bis-(2-ethylhexyl)phthalat	15.84	149	119276	2.367ug/ml	95
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	17.42	252	19573	0.623ug/ml	94
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	0.00	252		Not Detected	
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

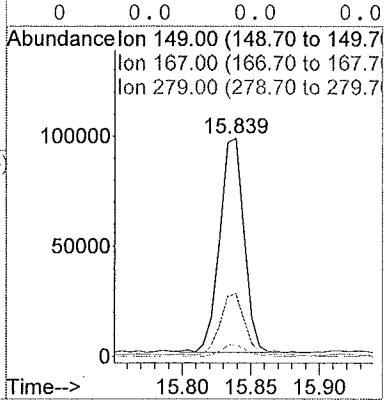
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

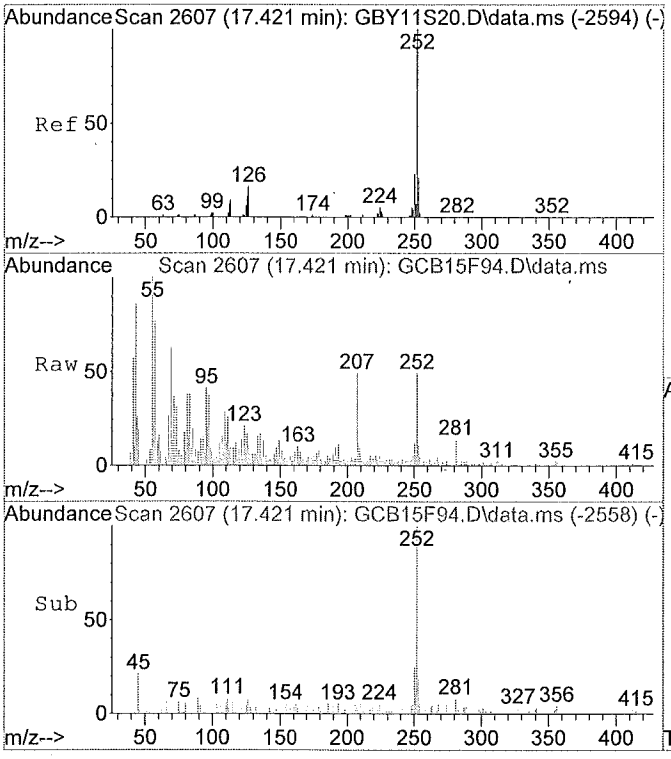


#80
Bis-(2-ethylhexyl)phthalate
Concen: 2.37 ug/ml
RT: 15.84 min Scan# 2338
Delta R.T. -0.01 min
Lab File: GCB15F94.D
Acq: 06/24/2015 00:45

Tgt Ion:149 Resp: 119276

Ion	Ratio	Lower	Upper
149	100		
167	28.8	22.0	40.8
279	5.9	5.0	9.2
0	0.0	0.0	0.0

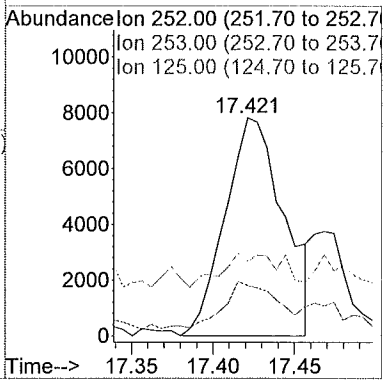




#83
Benzo(b)fluoranthene
Concen: 0.62 ug/ml
RT: 17.42 min Scan# 2607
Delta R.T. -0.01 min
Lab File: GCB15F94.D
Acq: 06/24/2015 00:45

Tgt Ion:252 Resp: 19573

Ion	Ratio	Lower	Upper
252	100		
253	22.3	15.1	28.1
125	20.9	10.6	19.8#
0	0.0	0.0	0.0



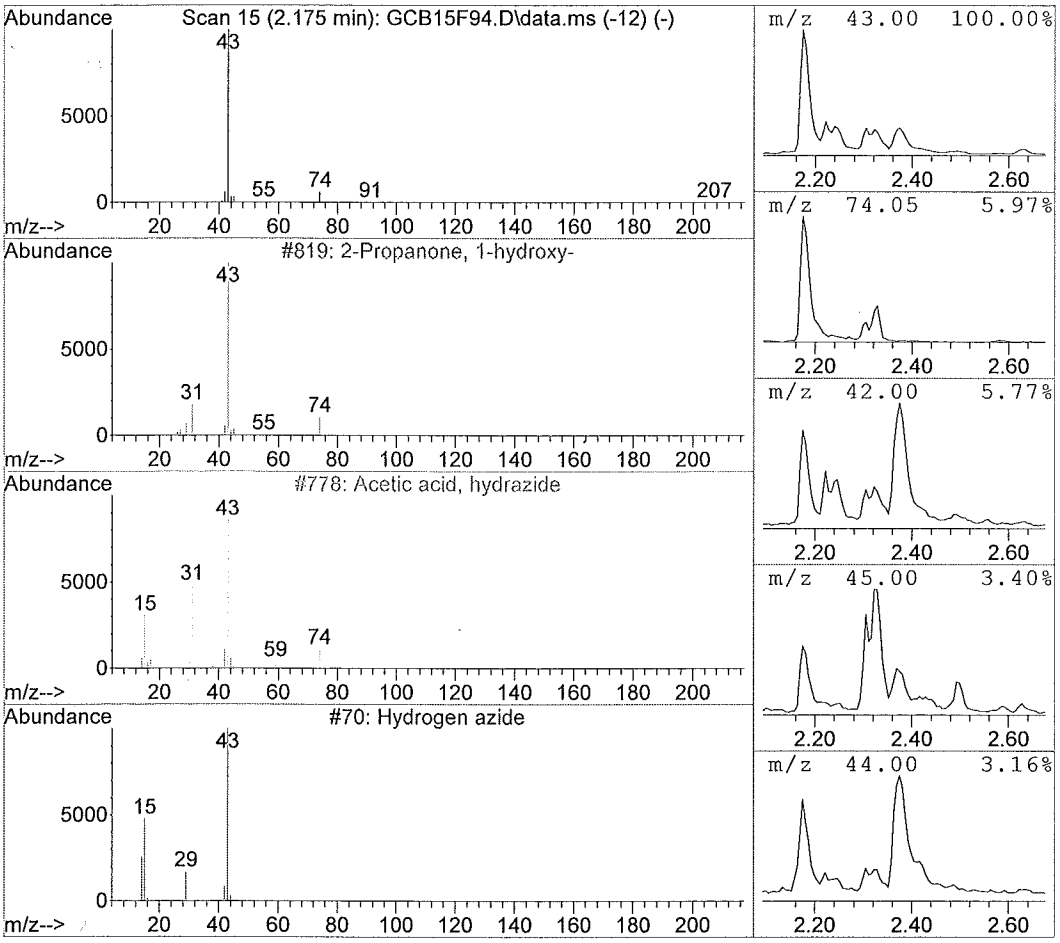
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB15F94.D Vial: 37
Acq On : 06/24/2015 00:45 Operator: TJM
Sample : 1515725016 F9M94 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.18	8.19 ug/ml	842309	1,4-Dichlorobenzene-d4	2057640

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-hydroxy-	819	000116-09-6	9.00
2	Acetic acid, hydrazide	778	001068-57-1	4.00
3	Hydrogen azide	70	007782-79-8	4.00
4	O-Methylisourea	774	002440-60-0	4.00
5	1-Propanol, 2-methyl-	855	000078-83-1	3.00



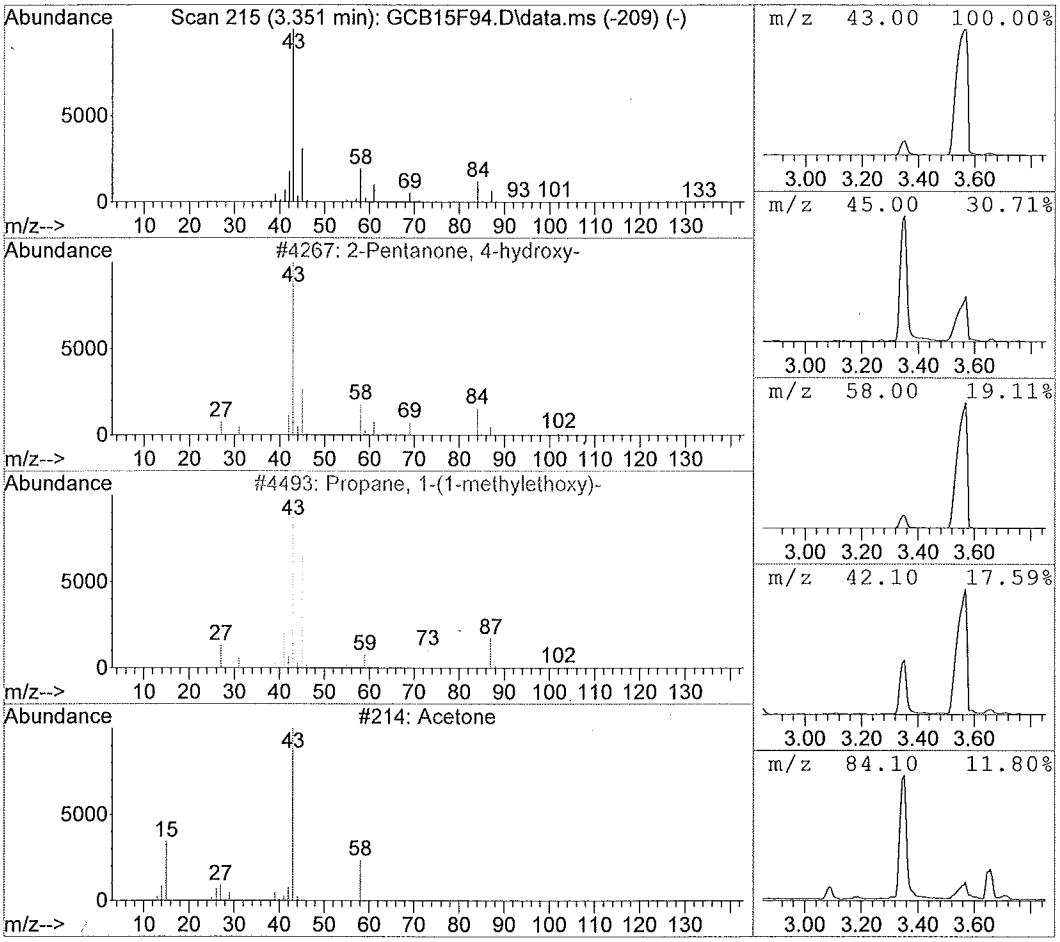
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB15F94.D Vial: 37
Acq On : 06/24/2015 00:45 Operator: TJM
Sample : 1515725016 F9M94 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.35	32.10 ug/ml	3302807	1,4-Dichlorobenzene-d4	2057640

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	59.00
2	Propane, 1-(1-methylethoxy)-	4493	000627-08-7	9.00
3	Acetone	214	000067-64-1	9.00
4	Oxirane, trimethyl-	1756	005076-19-7	9.00
5	Nitric acid, nonyl ester	52650	020633-13-0	9.00



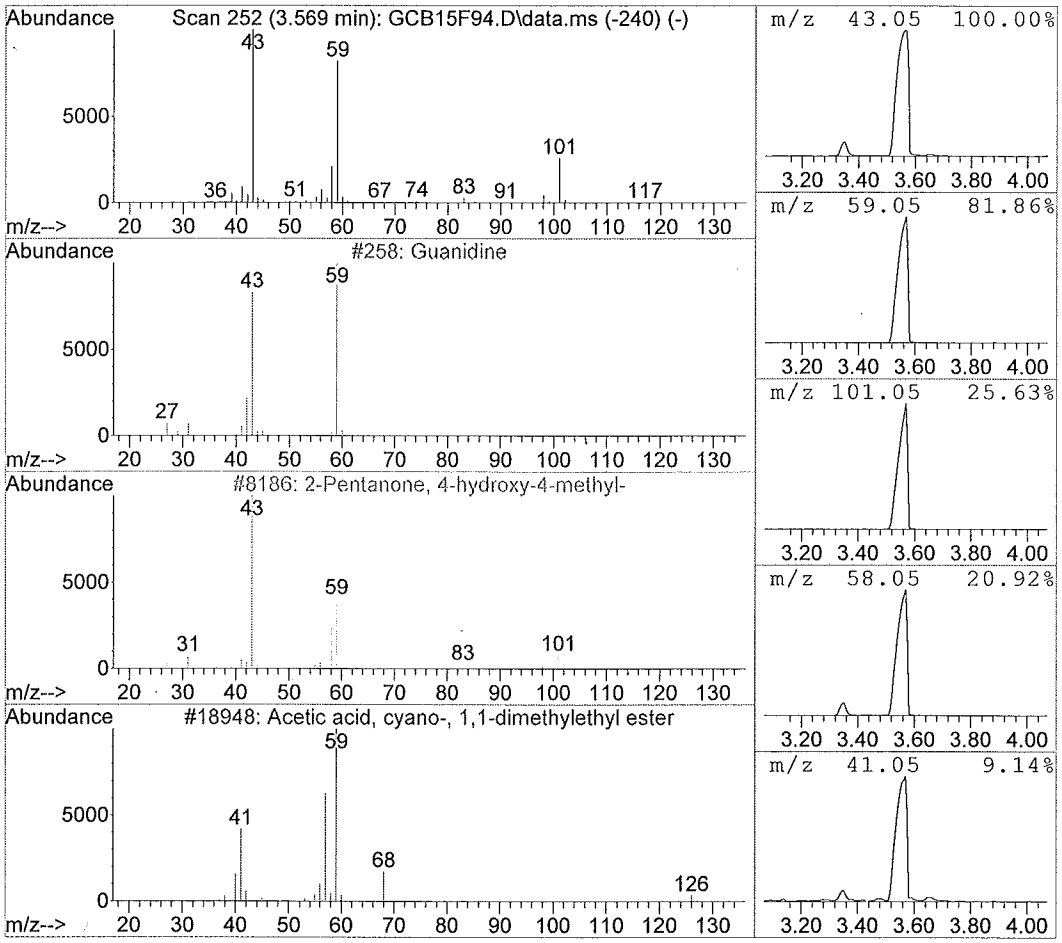
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB15F94.D Vial: 37
Acq On : 06/24/2015 00:45 Operator: TJM
Sample : 1515725016 F9M94 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.57	572.76 ug/ml	58927201	1,4-Dichlorobenzene-d4	2057640

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Guanidine	258	000113-00-8	52.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
3	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
4	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	9.00
5	Formamide, N,N-diethyl-	4092	000617-84-5	9.00

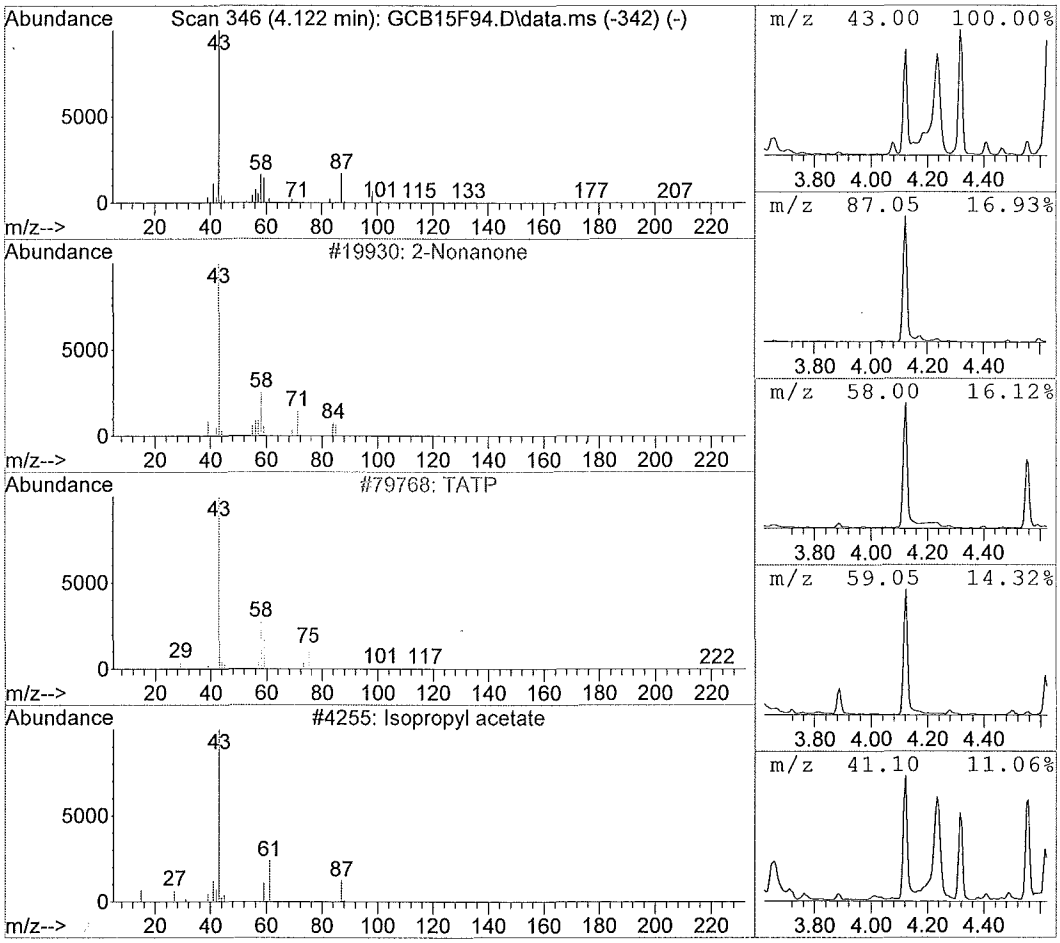


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB15F94.D Vial: 37
Acq On : 06/24/2015 00:45 Operator: TJM
Sample : 1515725016 F9M94 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.12	16.14 ug/ml	1660980	1,4-Dichlorobenzene-d4	2057640

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Nonanone	19930	000821-55-6	50.00
2	TATP	79768	017088-37-8	32.00
3	Isopropyl acetate	4255	000108-21-4	25.00
4	S-(-)-2-Methylbutylamine	1929	020626-52-2	9.00
5	.alpha.-Hydroxyisobutyric acid, ace	21841	1000374-31-3	9.00



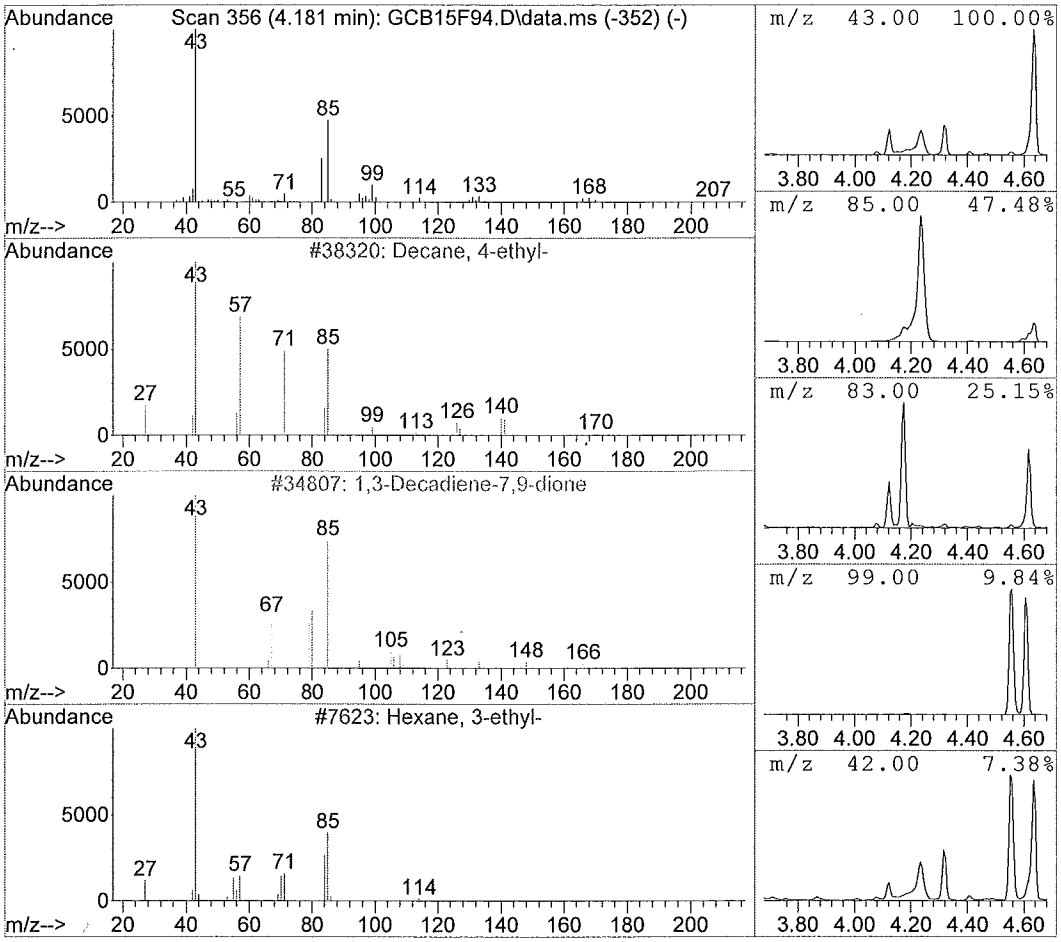
Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB15F94.D Vial: 37
Acq On : 06/24/2015 00:45 Operator: TJM
Sample : 1515725016 F9M94 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.18	6.16 ug/ml	633675	1,4-Dichlorobenzene-d4	2057640

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decane, 4-ethyl-	38320	001636-44-8	9.00
2	1,3-Decadiene-7,9-dione	34807	1000160-87-3	9.00
3	Hexane, 3-ethyl-	7623	000619-99-8	9.00
4	Undecane, 2-methyl-	38324	007045-71-8	9.00
5	Tridecane, 5-methyl-	59885	025117-31-1	9.00

BA

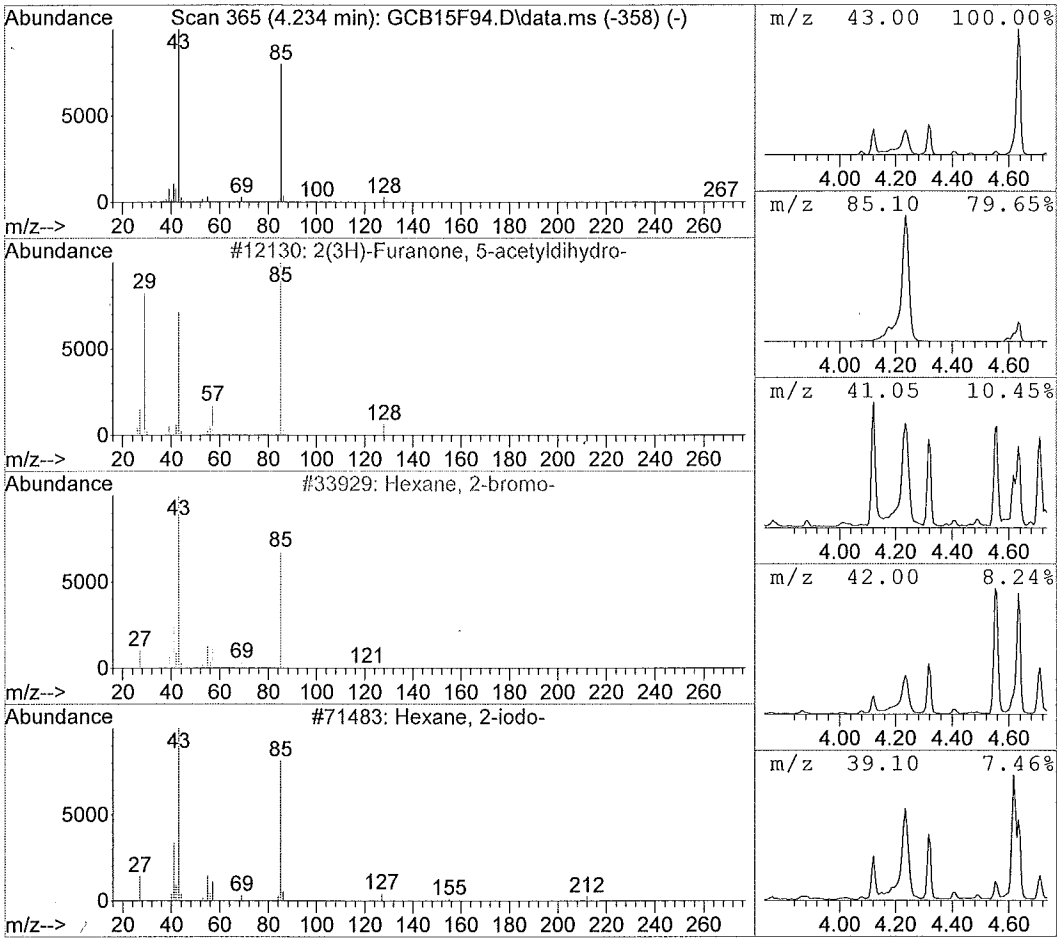


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB15F94.D Vial: 37
Acq On : 06/24/2015 00:45 Operator: TJM
Sample : 1515725016 F9M94 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.23	31.50 ug/ml	3240513	1,4-Dichlorobenzene-d4	2057640

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2(3H)-Furanone, 5-acetyldihydro-	12130	029393-32-6	78.00
2	Hexane, 2-bromo-	33929	003377-86-4	64.00
3	Hexane, 2-iodo-	71483	018589-27-0	64.00
4	2-Pyrrolidinone	1541	000616-45-5	42.00
5	5-Iodopentan-2-one	71474	003695-29-2	40.00

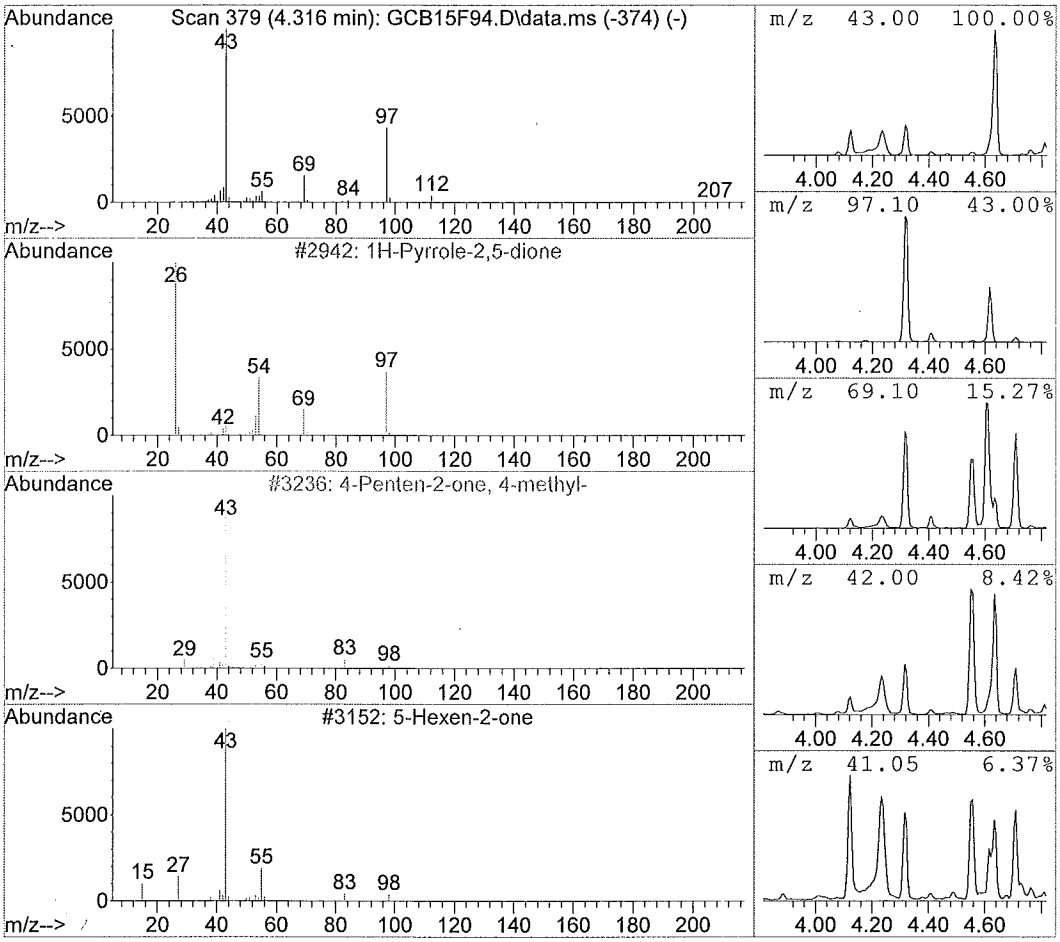


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB15F94.D Vial: 37
Acq On : 06/24/2015 00:45 Operator: TJM
Sample : 1515725016 F9M94 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.32	20.49 ug/ml	2107795	1,4-Dichlorobenzene-d4	2057640

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	40.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	5-Hexen-2-one	3152	000109-49-9	9.00
4	2,6,6-Trimethyl-bicyclo[3.1.1]hept-	26216	069460-11-3	9.00
5	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00



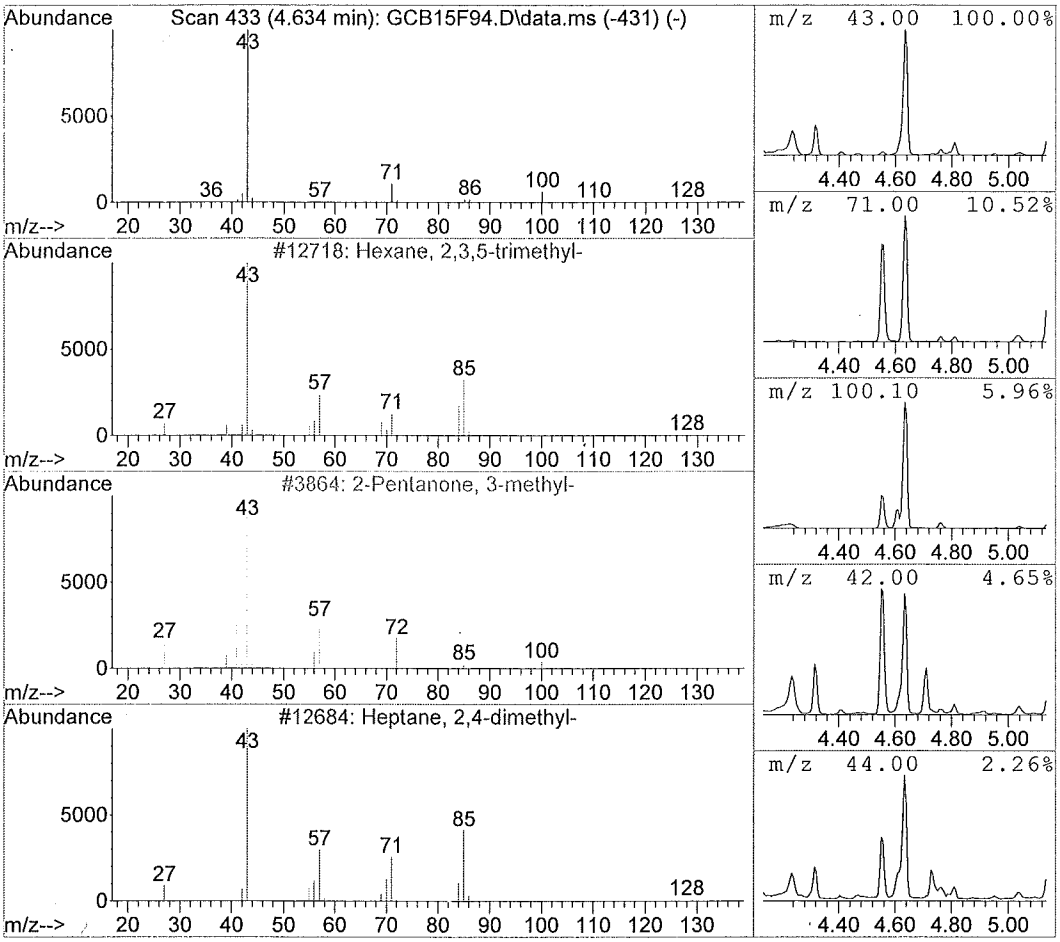
Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB15F94.D Vial: 37
Acq On : 06/24/2015 00:45 Operator: TJM
Sample : 1515725016 F9M94 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.63	50.48 ug/ml	5193695	1,4-Dichlorobenzene-d4	2057640

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
2	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
3	Heptane, 2,4-dimethyl-	12684	002213-23-2	5.00
4	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00
5	Heptane	3973	000142-82-5	4.00

BA

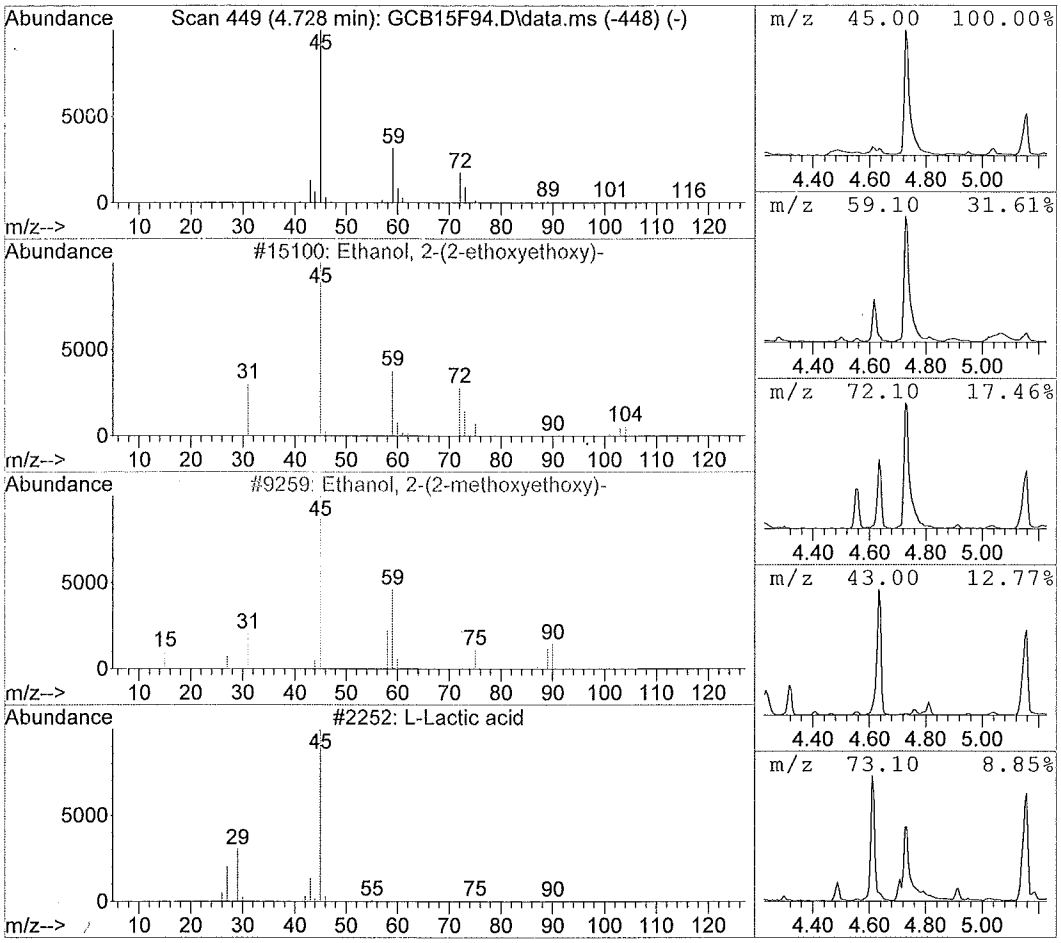


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB15F94.D Vial: 37
Acq On : 06/24/2015 00:45 Operator: TJM
Sample : 1515725016 F9M94 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.73	7.90 ug/ml	812786	1,4-Dichlorobenzene-d4	2057640

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanol, 2-(2-ethoxyethoxy)-	15100	000111-90-0	64.00
2	Ethanol, 2-(2-methoxyethoxy)-	9259	000111-77-3	56.00
3	L-Lactic acid	2252	000079-33-4	40.00
4	Diethyl carbitol	32643	000112-36-7	39.00
5	Carbonic acid, ethyl-, methyl ester	4708	000623-53-0	9.00



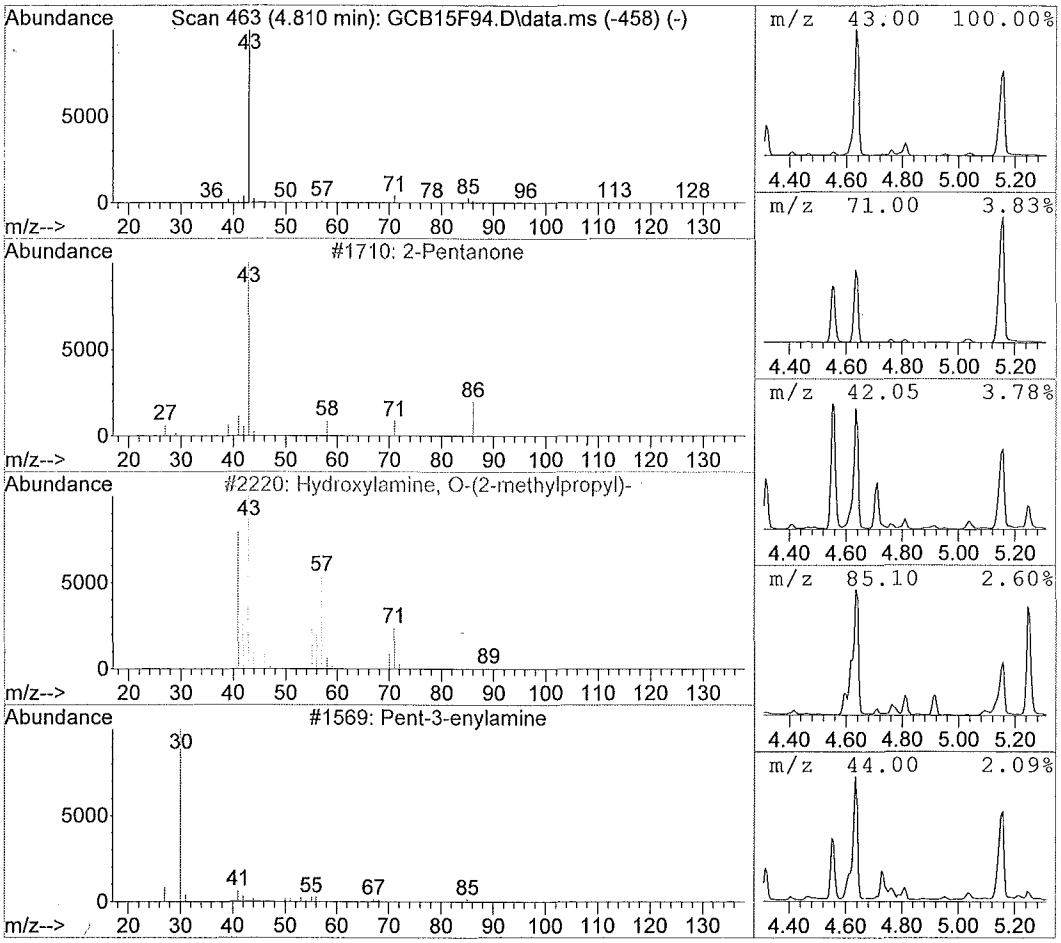
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB15F94.D Vial: 37
Acq On : 06/24/2015 00:45 Operator: TJM
Sample : 1515725016 F9M94 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.81	6.17 ug/ml	635023	1,4-Dichlorobenzene-d4	2057640

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone	1710	000107-87-9	4.00
2	Hydroxylamine, O-(2-methylpropyl)-	2220	005618-62-2	4.00
3	Pent-3-enylamine	1569	087156-70-5	3.00
4	Butane, 2,3-dimethyl-	1832	000079-29-8	3.00
5	1,4-Butanediamine	1969	000110-60-1	3.00



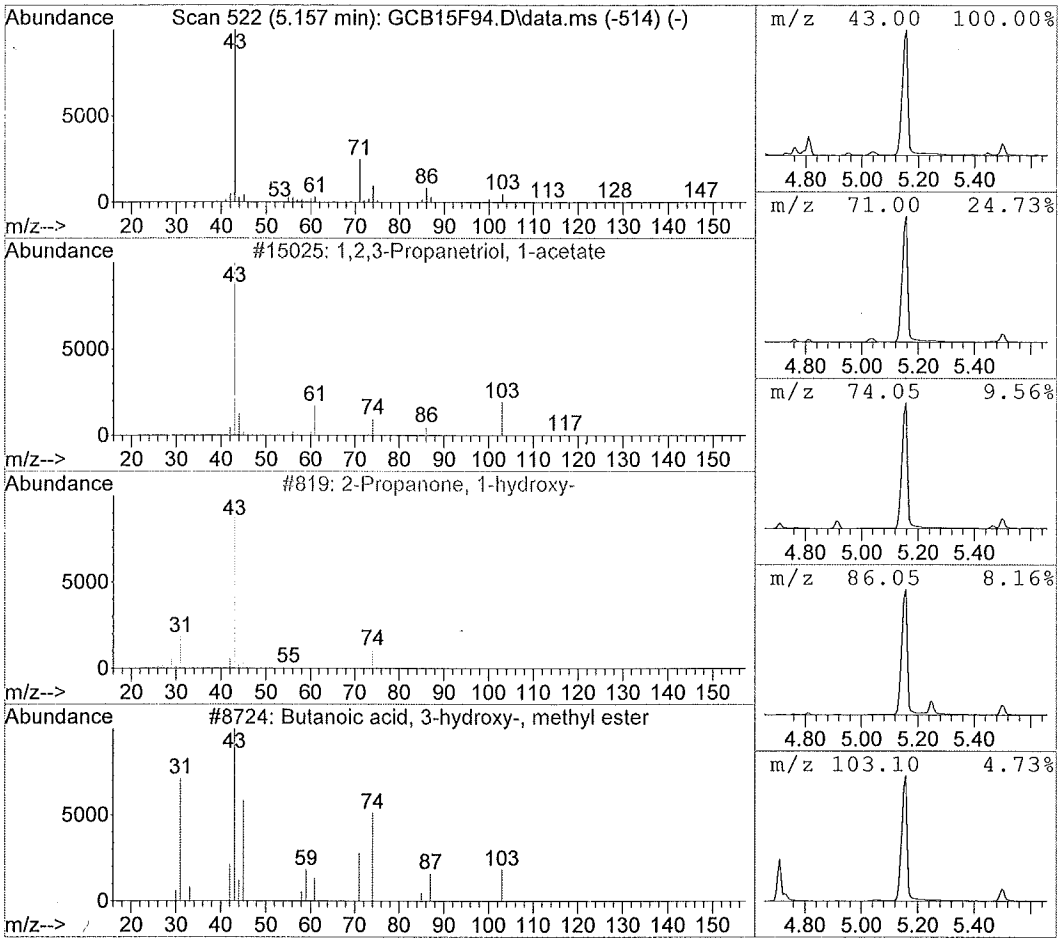
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB15F94.D Vial: 37
Acq On : 06/24/2015 00:45 Operator: TJM
Sample : 1515725016 F9M94 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.16	65.22 ug/ml	6710277	1,4-Dichlorobenzene-d4	2057640

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	32.00
2	2-Propanone, 1-hydroxy-	819	000116-09-6	27.00
3	Butanoic acid, 3-hydroxy-, methyl e	8724	001487-49-6	12.00
4	Diacetyl sulphide	8654	003232-39-1	10.00
5	Pentanal, 2-methyl-	3836	000123-15-9	9.00



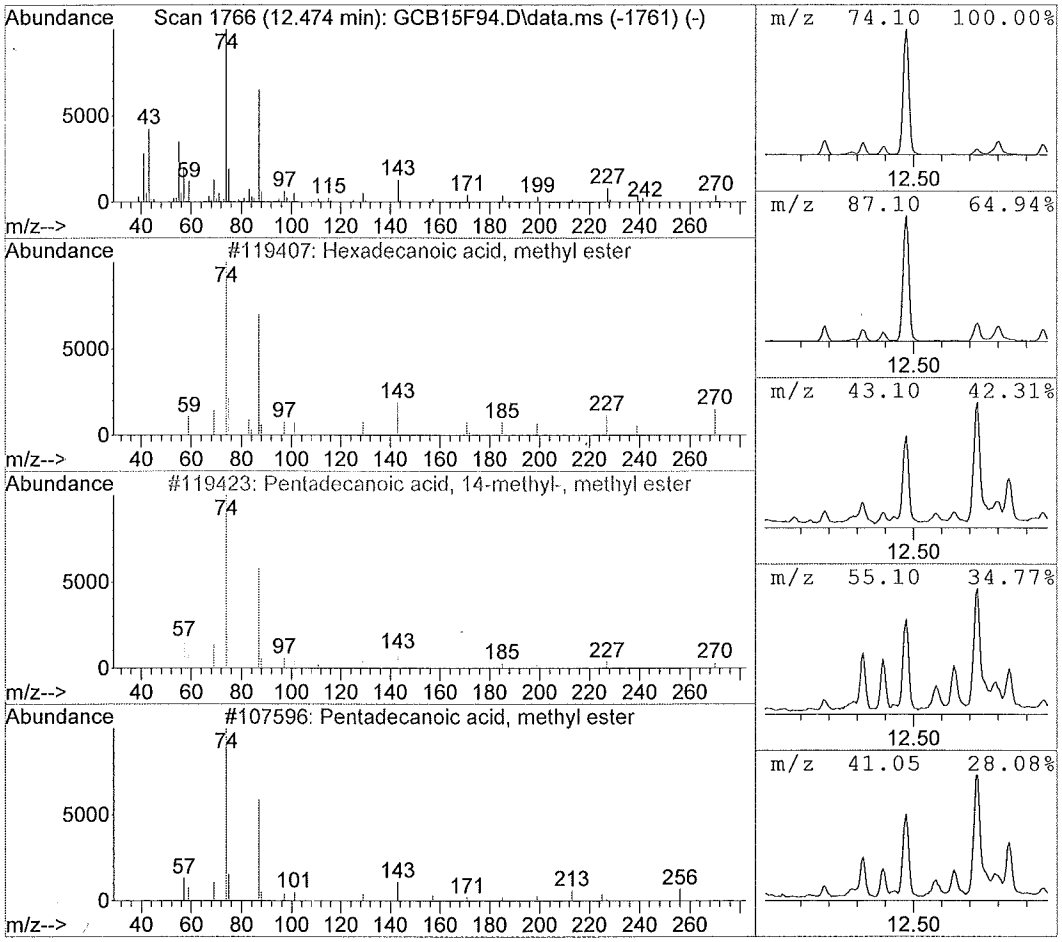
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB15F94.D Vial: 37
Acq On : 06/24/2015 00:45 Operator: TJM
Sample : 1515725016 F9M94 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.47	7.60 ug/ml	1192193	Phenanthrene-d10	3136758

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, methyl ester	119407	000112-39-0	97.00
2	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	97.00
3	Pentadecanoic acid, methyl ester	107596	007132-64-1	90.00
4	Tridecanoic acid, methyl ester	84483	001731-88-0	87.00
5	Methyl tetradecanoate	95861	000124-10-7	81.00

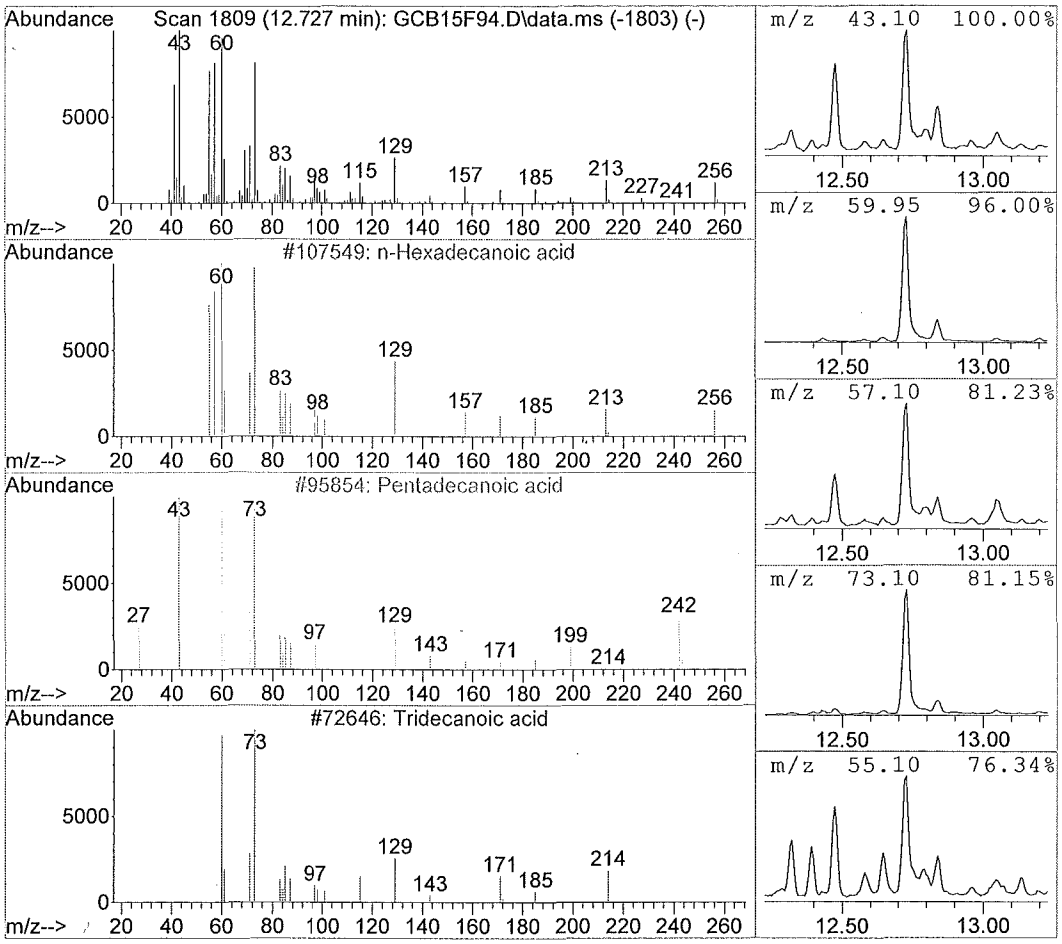


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB15F94.D Vial: 37
Acq On : 06/24/2015 00:45 Operator: TJM
Sample : 1515725016 F9M94 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.73	11.93 ug/ml	1870385	Phenanthrene-d10	3136758

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Pentadecanoic acid	95854	001002-84-2	83.00
3	Tridecanoic acid	72646	000638-53-9	72.00
4	Undecanoic acid	50051	000112-37-8	64.00
5	Tetradecanoic acid	84452	000544-63-8	59.00

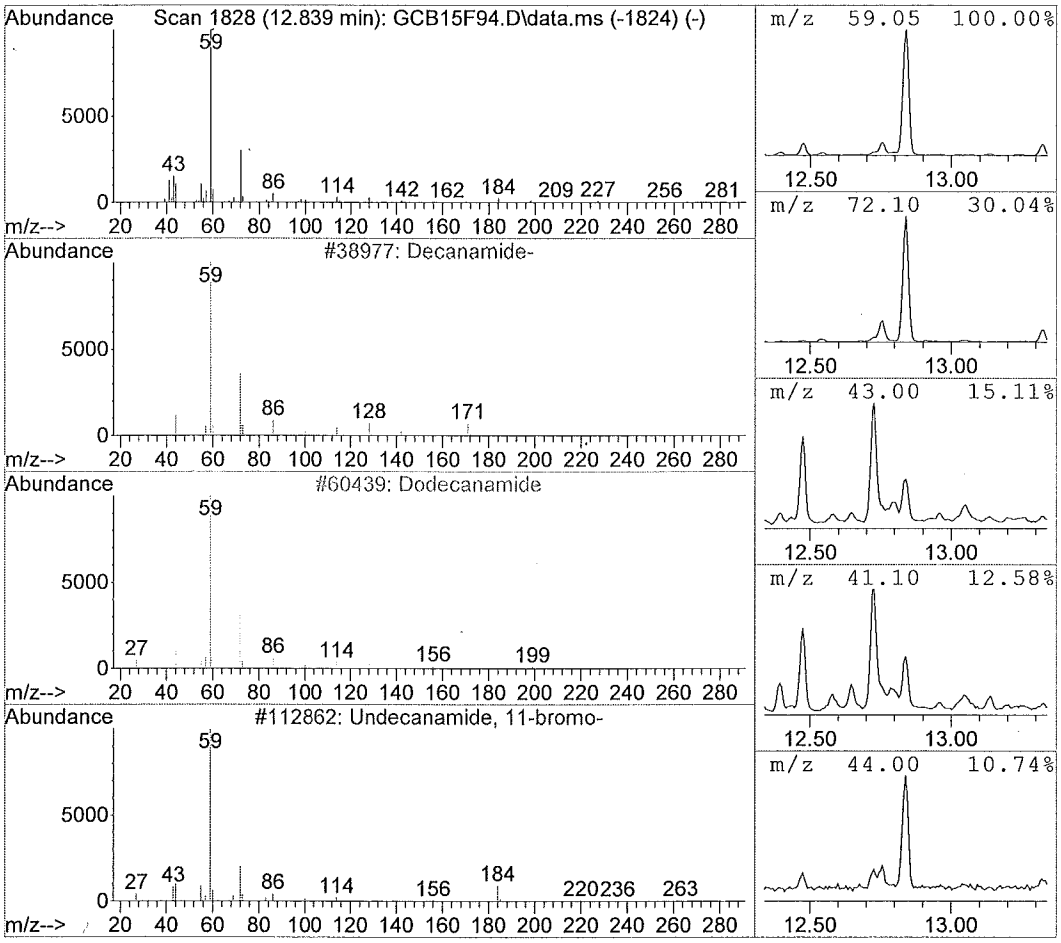


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB15F94.D Vial: 37
Acq On : 06/24/2015 00:45 Operator: TJM
Sample : 1515725016 F9M94 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.84	4.80 ug/ml	752660	Phenanthrene-d10	3136758

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decanamide-	38977	002319-29-1	91.00
2	Dodecanamide	60439	001120-16-7	83.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
4	Tetradecanamide	83609	000638-58-4	74.00
5	Hexadecanamide	106565	000629-54-9	56.00

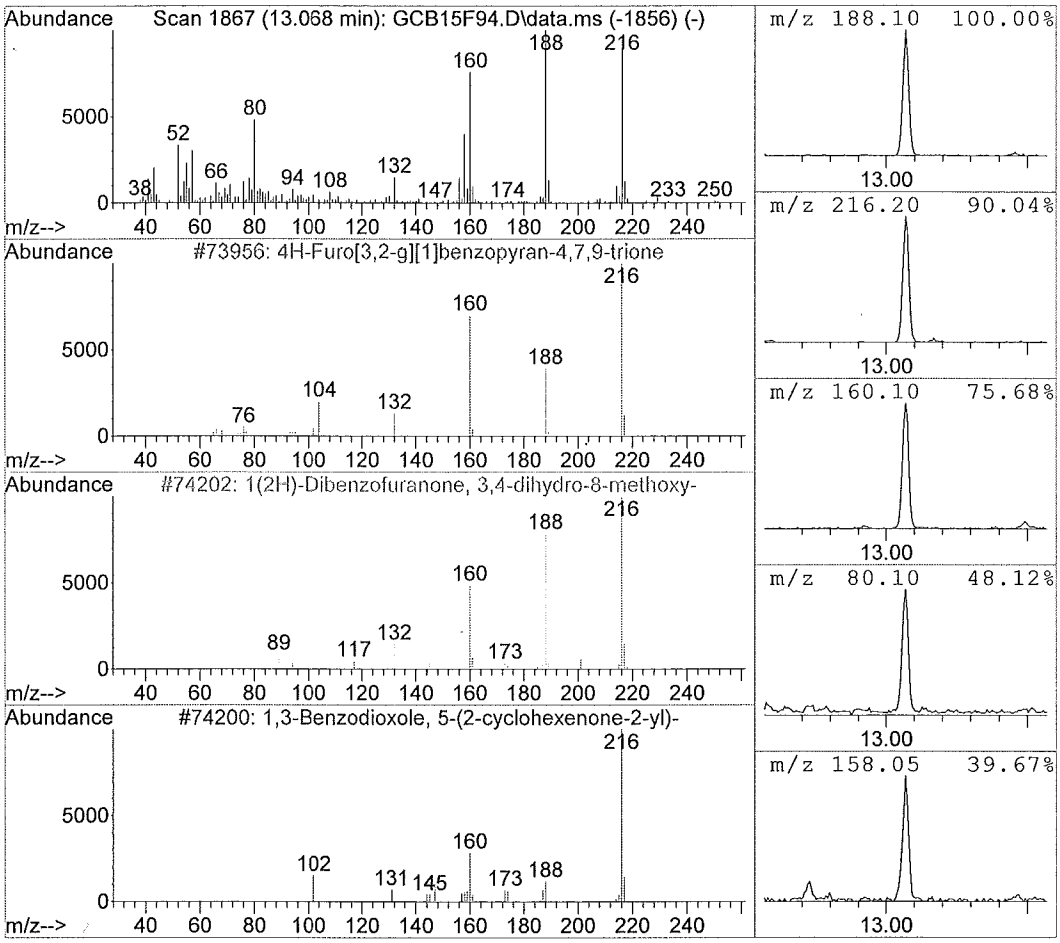


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB15F94.D Vial: 37
Acq On : 06/24/2015 00:45 Operator: TJM
Sample : 1515725016 F9M94 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.07	3.76 ug/ml	589347	Phenanthrene-d10	3136758

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4H-Furo[3,2-g][1]benzopyran-4,7,9-t	73956	000483-36-3	38.00
2	1(2H)-Dibenzofuranone, 3,4-dihydro-	74202	095338-40-2	38.00
3	1,3-Benzodioxole, 5-(2-cyclohexenon	74200	042866-84-2	35.00
4	2H-1-Benzopyran-2-one, 4-methyl-7-(	74209	003993-57-5	27.00
5	4-(4-Ethoxyphenyl)-1H-imidazole	51480	1000311-54-8	22.00



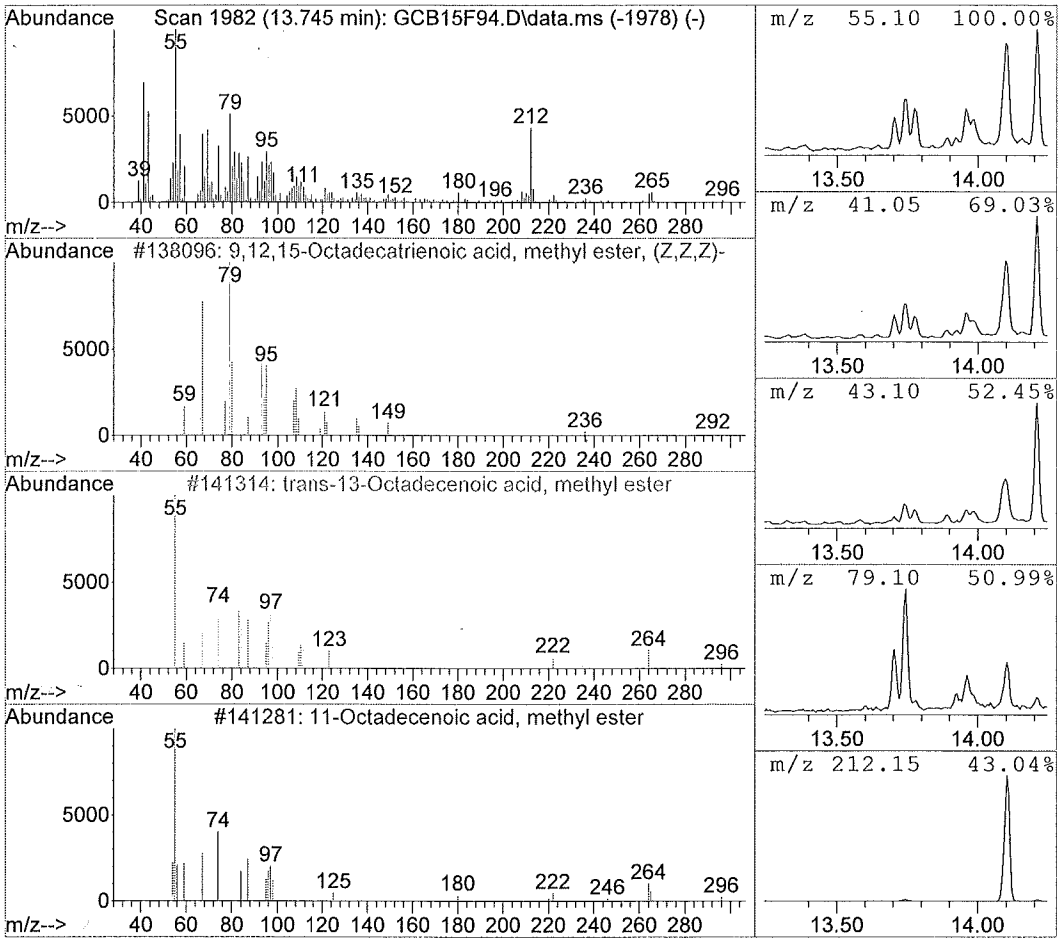
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB15F94.D Vial: 37
Acq On : 06/24/2015 00:45 Operator: TJM
Sample : 1515725016 F9M94 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.74	5.59 ug/ml	800727	Chrysene-d12	2864698

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9,12,15-Octadecatrienoic acid, meth	138096	000301-00-8	94.00
2	trans-13-Octadecenoic acid, methyl	141314	1000333-61-3	93.00
3	11-Octadecenoic acid, methyl ester	141281	052380-33-3	83.00
4	13-Octadecenoic acid, methyl ester	141286	056554-47-3	78.00
5	9,12,15-Octadecatrien-1-ol, (Z,Z,Z)	114273	000506-44-5	74.00



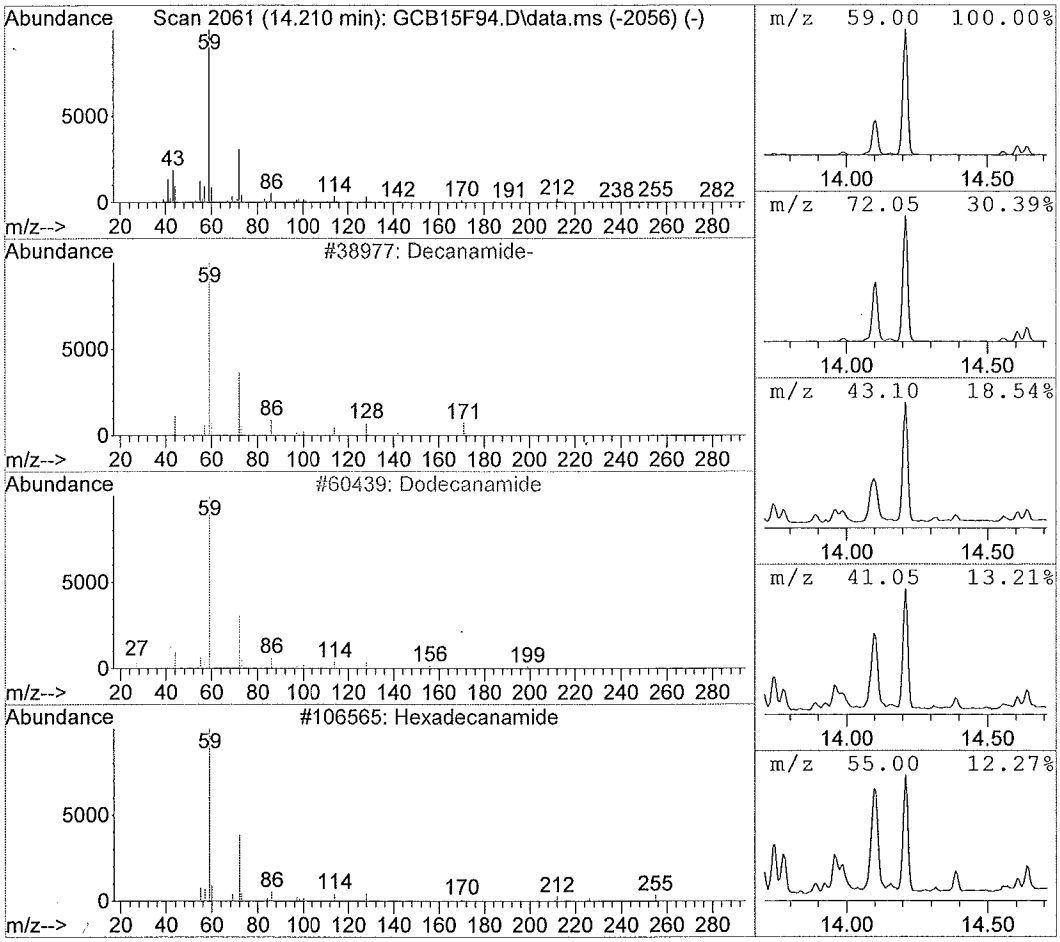
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB15F94.D Vial: 37
Acq On : 06/24/2015 00:45 Operator: TJM
Sample : 1515725016 F9M94 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.21	19.21 ug/ml	2751303	Chrysene-d12	2864698

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decanamide-	38977	002319-29-1	90.00
2	Dodecanamide	60439	001120-16-7	90.00
3	Hexadecanamide	106565	000629-54-9	86.00
4	Tetradecanamide	83609	000638-58-4	78.00
5	Nonanamide	29478	001120-07-6	78.00

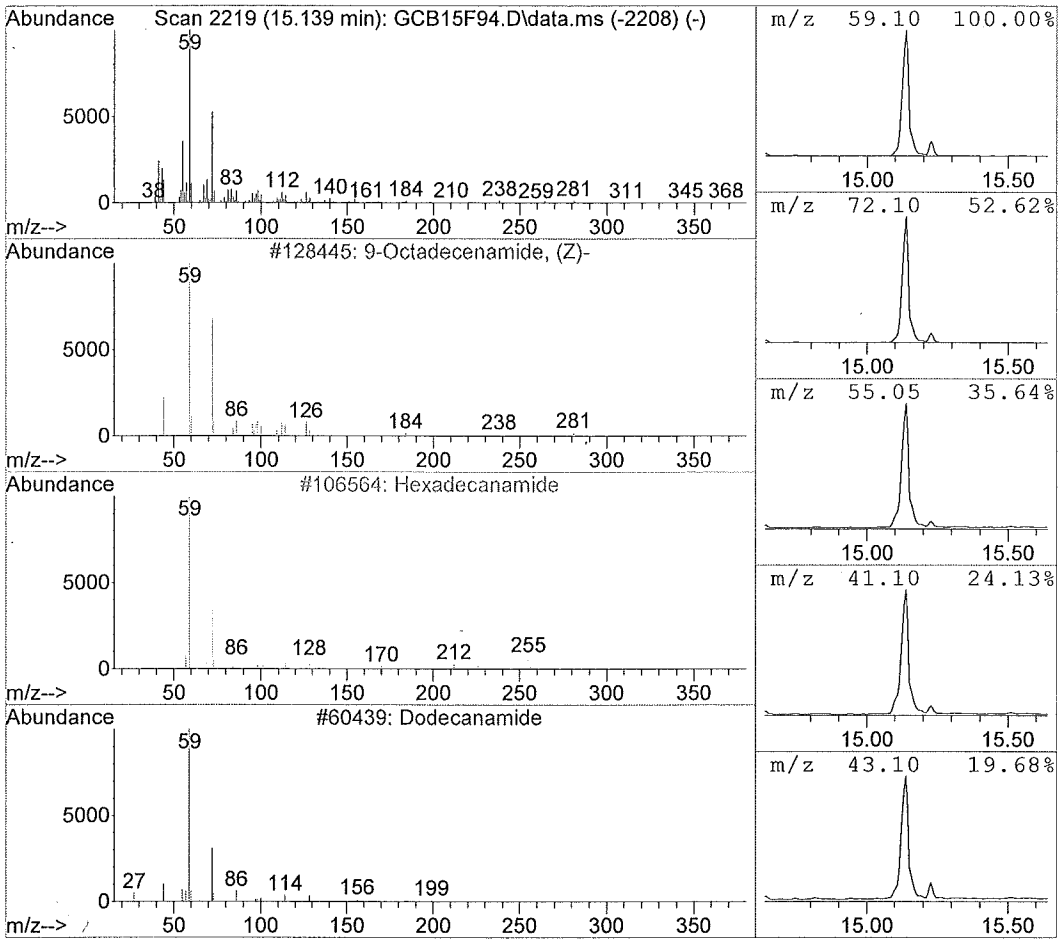


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB15F94.D Vial: 37
Acq On : 06/24/2015 00:45 Operator: TJM
Sample : 1515725016 F9M94 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.14	175.58 ug/ml	25148693	Chrysene-d12	2864698

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Hexadecanamide	106564	000629-54-9	80.00
3	Dodecanamide	60439	001120-16-7	59.00
4	Decanamide-	38977	002319-29-1	56.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	53.00

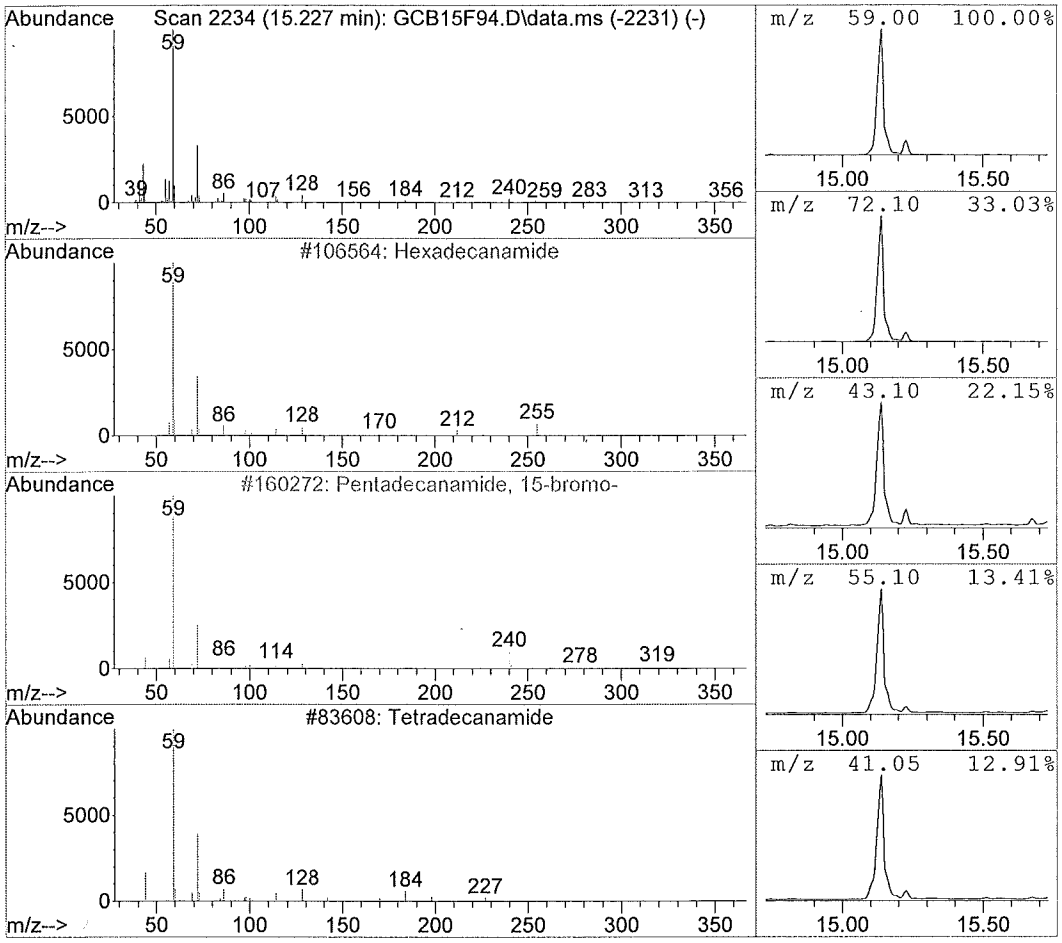


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB15F94.D Vial: 37
Acq On : 06/24/2015 00:45 Operator: TJM
Sample : 1515725016 F9M94 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.23	7.36 ug/ml	1054428	Chrysene-d12	2864698

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	90.00
2	Pentadecanamide, 15-bromo-	160272	1000163-86-1	78.00
3	Tetradecanamide	83608	000638-58-4	78.00
4	Dodecanamide	60439	001120-16-7	78.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	64.00



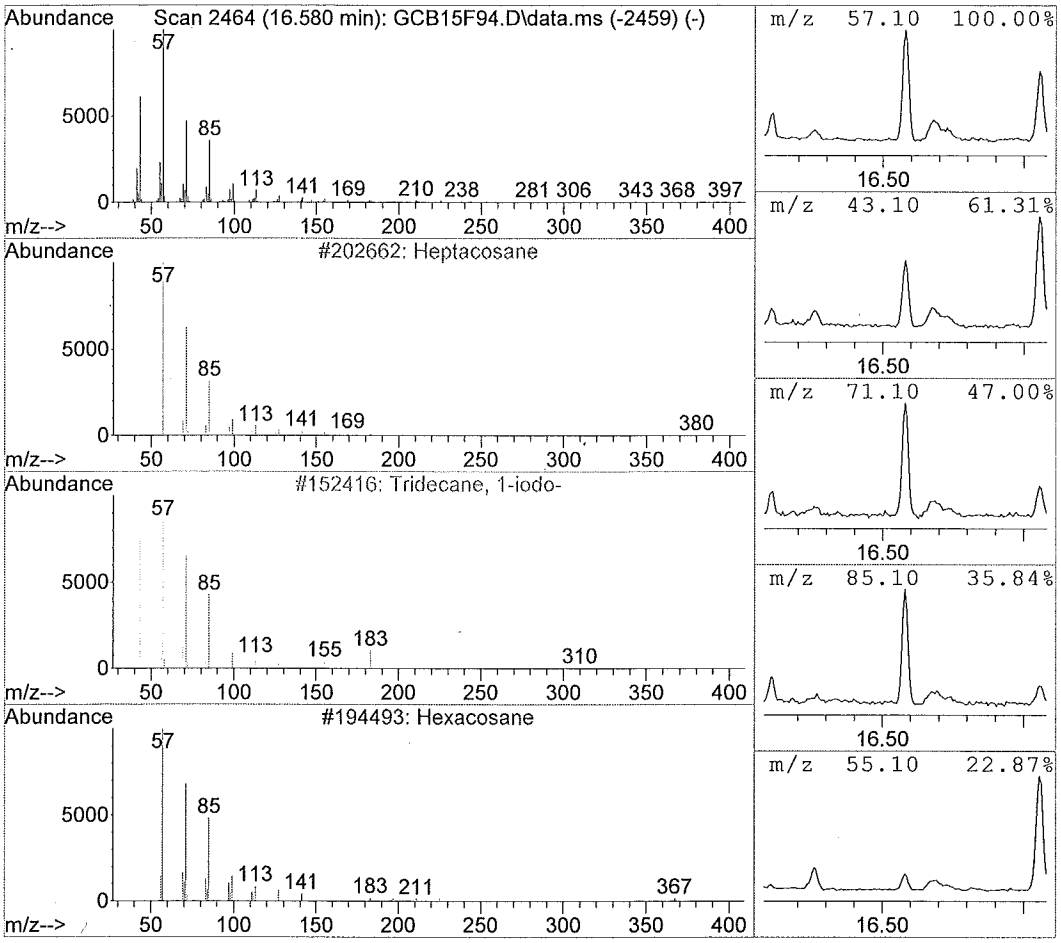
Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB15F94.D Vial: 37
Acq On : 06/24/2015 00:45 Operator: TJM
Sample : 1515725016 F9M94 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.58	4.51 ug/ml	645490	Chrysene-d12	2864698

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	98.00
2	Tridecane, 1-iodo-	152416	035599-77-0	91.00
3	Hexacosane	194493	000630-01-3	86.00
4	Tetracosane	175557	000646-31-1	86.00
5	Eicosane	129492	000112-95-8	86.00

SA

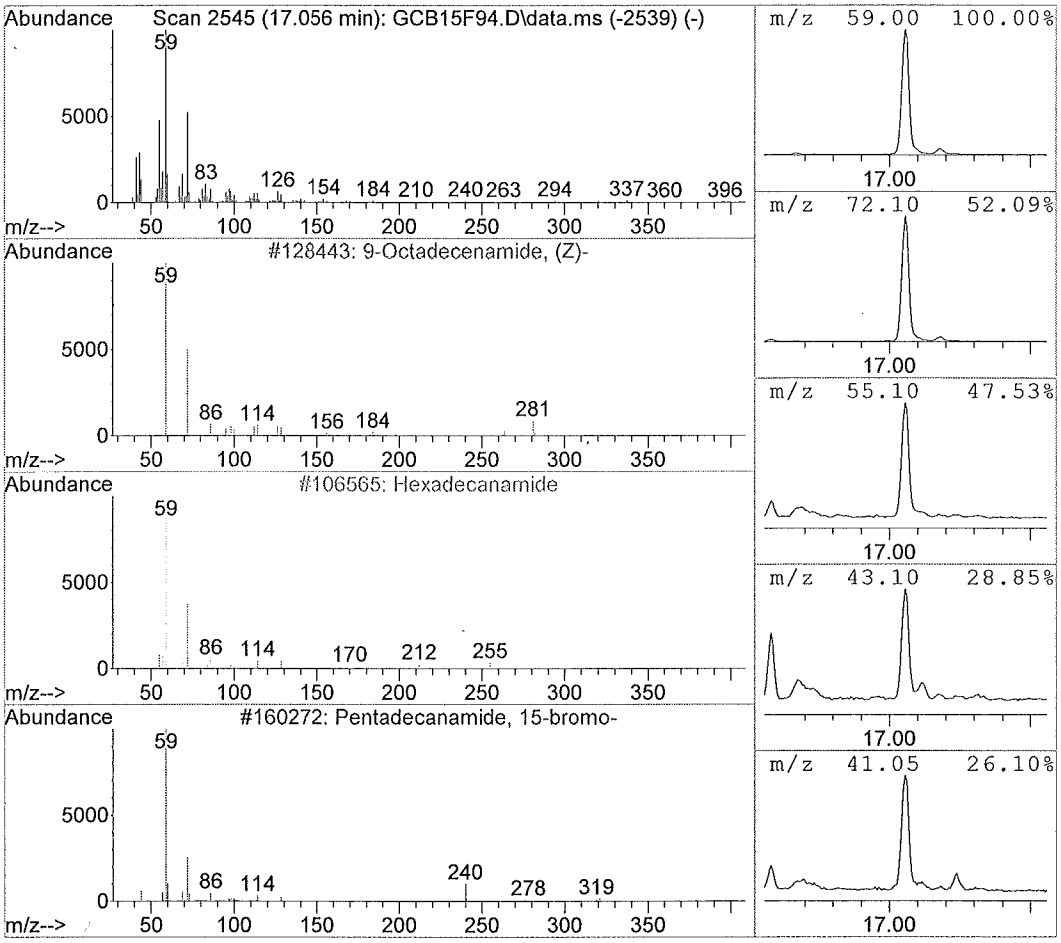


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB15F94.D Vial: 37
Acq On : 06/24/2015 00:45 Operator: TJM
Sample : 1515725016 F9M94 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.06	43.94 ug/ml	3248327	Perylene-d12	1478429

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	90.00
2	Hexadecanamide	106565	000629-54-9	72.00
3	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00
4	Octanamide	20317	000629-01-6	53.00
5	Nonanamide	29478	001120-07-6	53.00



Library Search Compound Report

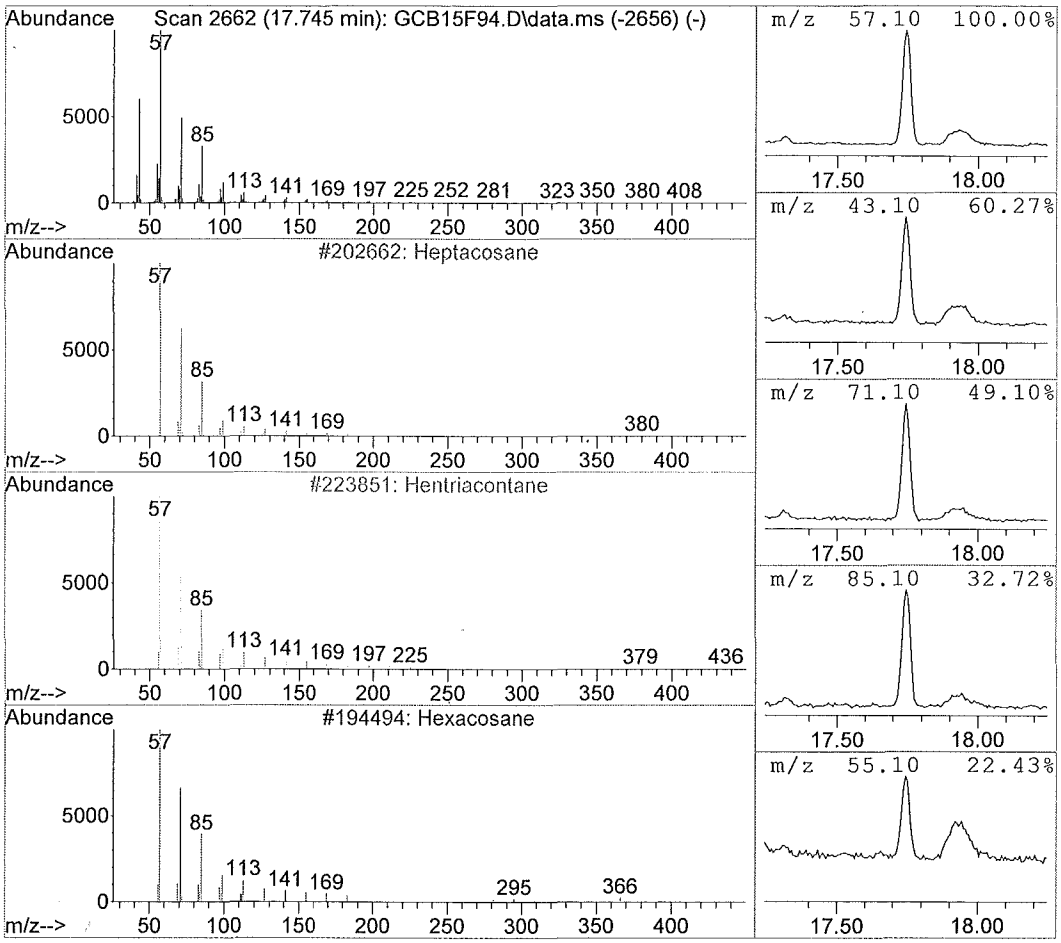
Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB15F94.D Vial: 37
Acq On : 06/24/2015 00:45 Operator: TJM
Sample : 1515725016 F9M94 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.74	14.38 ug/ml	1063312	Perylene-d12	1478429

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	97.00
2	Hentriacontane	223851	000630-04-6	91.00
3	Hexacosane	194494	000630-01-3	91.00
4	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	87.00
5	Hexatriacontane	235973	000630-06-8	87.00

SA



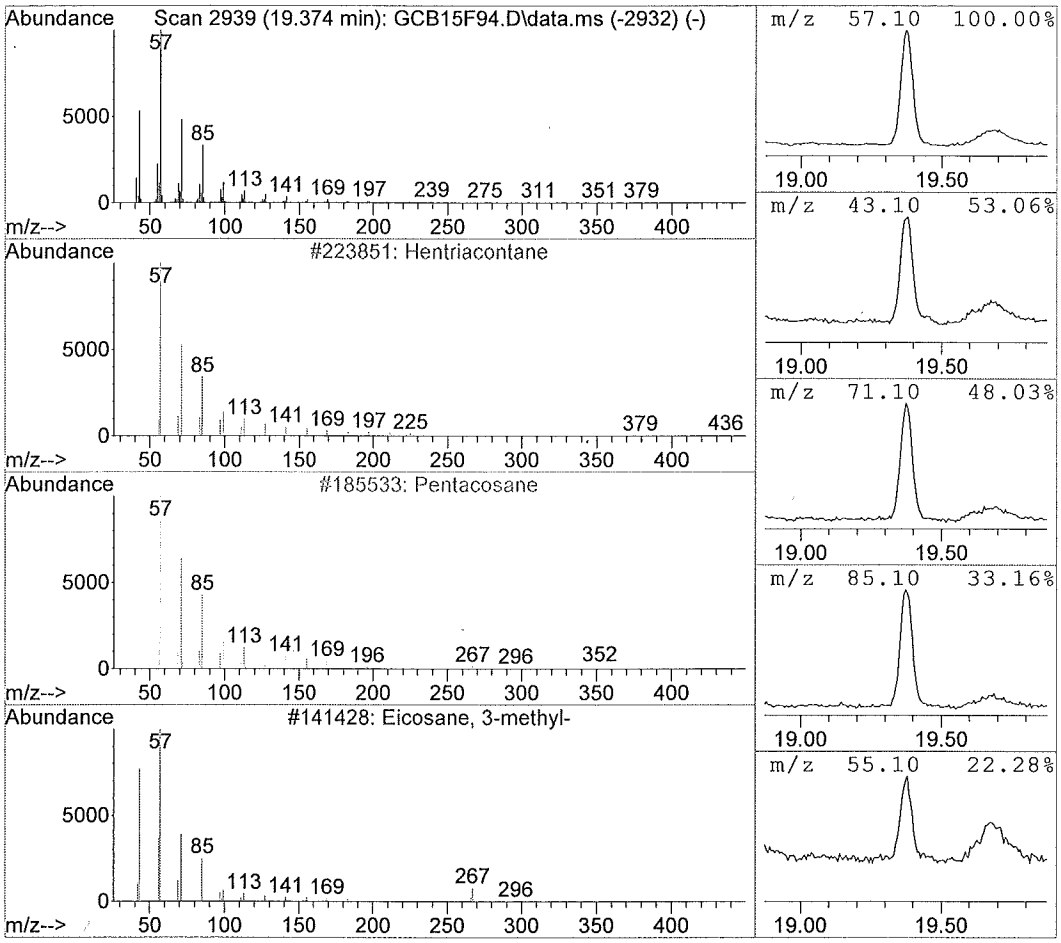
Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB15F94.D Vial: 37
Acq On : 06/24/2015 00:45 Operator: TJM
Sample : 1515725016 F9M94 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.37	13.87 ug/ml	1025545	Perylene-d12	1478429

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hentriacontane	223851	000630-04-6	91.00
2	Pentacosane	185533	000629-99-2	91.00
3	Eicosane, 3-methyl-	141428	006418-46-8	90.00
4	Hexacosane, 9-octyl-	232377	055429-83-9	87.00
5	Eicosane	129492	000112-95-8	87.00

5A

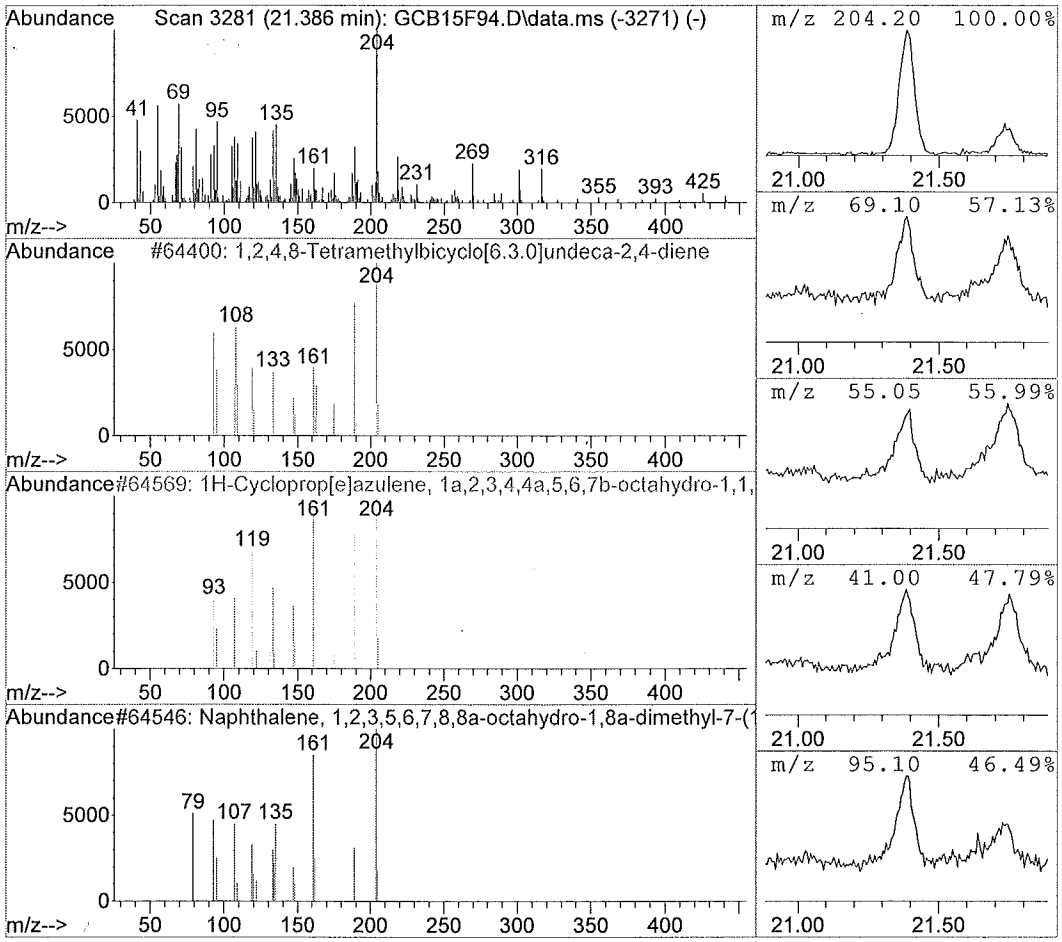


Data File : C:\msdchem\1\data\F9...\23JUN15PM\GCB15F94.D Vial: 37
Acq On : 06/24/2015 00:45 Operator: TJM
Sample : 1515725016 F9M94 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.39	17.02 ug/ml	1257774	Perylene-d12	1478429

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	70.00
2	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64569	000489-40-7	64.00
3	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	49.00
4	2H-Cyclopentacyclooctene, 4,5,6,7,8	64452	1000221-85-8	46.00
5	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	41.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M95

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725017

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCC11F95

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.0 Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	180	U
108-95-2	Phenol	180	U
111-44-4	Bis(2-chloroethyl)ether	180	U
95-57-8	2-Chlorophenol	180	U
95-48-7	2-Methylphenol	180	U
108-60-1	2,2'-Oxybis(1-chloropropane)	180	U
98-86-2	Acetophenone	180	U
106-44-5	4-Methylphenol	180	U
621-64-7	N-Nitroso-di-n-propylamine	180	U
67-72-1	Hexachloroethane	180	U
98-95-3	Nitrobenzene	180	U
78-59-1	Isophorone	180	U
88-75-5	2-Nitrophenol	180	U
105-67-9	2,4-Dimethylphenol	180	U
111-91-1	Bis(2-chloroethoxy)methane	180	U
120-83-2	2,4-Dichlorophenol	180	U
91-20-3	Naphthalene	180	U
106-47-8	4-Chloroaniline	180	U
87-68-3	Hexachlorobutadiene	180	U
105-60-2	Caprolactam	180	U
59-50-7	4-Chloro-3-methylphenol	180	U
91-57-6	2-Methylnaphthalene	180	U
77-47-4	Hexachlorocyclopentadiene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U
92-52-4	1,1'-Biphenyl	180	U
91-58-7	2-Chloronaphthalene	180	U
88-74-4	2-Nitroaniline	360	U
131-11-3	Dimethylphthalate	180	U
606-20-2	2,6-Dinitrotoluene	180	U
208-96-8	Acenaphthylene	180	U
99-09-2	3-Nitroaniline	360	U
83-32-9	Acenaphthene	180	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M95

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725017

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCC11F95

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.0 Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	360	U
100-02-7	4-Nitrophenol	360	U
132-64-9	Dibenzofuran	180	U
121-14-2	2,4-Dinitrotoluene	180	U
84-66-2	Diethylphthalate	180	U
86-73-7	Fluorene	180	U
7005-72-3	4-Chlorophenyl-phenylether	180	U
100-01-6	4-Nitroaniline	360	U
534-52-1	4,6-Dinitro-2-methylphenol	360	U
86-30-6	N-Nitrosodiphenylamine[1]	180	U
95-94-3	1,2,4,5-Tetrachlorobenzene	180	U
101-55-3	4-Bromophenyl-phenylether	180	U
118-74-1	Hexachlorobenzene	180	U
1912-24-9	Atrazine	180	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	180	U
120-12-7	Anthracene	180	U
86-74-8	Carbazole	180	U
84-74-2	Di-n-butylphthalate	180	U
206-44-0	Fluoranthene	180	U
129-00-0	Pyrene	180	U
85-68-7	Butylbenzylphthalate	180	U
91-94-1	3,3'-Dichlorobenzidine	180	U
56-55-3	Benzo(a)anthracene	180	U
218-01-9	Chrysene	180	U
117-81-7	Bis(2-ethylhexyl)phthalate	120	J
117-84-0	Di-n-octylphthalate	180	U
205-99-2	Benzo(b)fluoranthene	180	U
207-08-9	Benzo(k)fluoranthene	180	U
50-32-8	Benzo(a)pyrene	180	U
193-39-5	Indeno(1,2,3-cd)pyrene	180	U
53-70-3	Dibenzo(a,h)anthracene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
58-90-2	2,3,4,6-Tetrachlorophenol	180	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M95

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725017
Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCC11F95
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 8.0 Decanted: (Y/N) N Date Received: 06/05/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015
GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Pentanone, 4-hydroxy-	3.35	630	JB
02		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.55	14000	JB
03		Unknown 2-Nonanone	4.12	340	JB
04		Unknown 1H-Pyrrole-2,5-dione	4.32	960	J
05		Unknown 2-Pentanone, 3-methyl-	4.63	1600	J
06		Unknown 2-Butanone	4.81	480	J
07		Unknown 4H-Imidazol-4-one, 2-amino-1,5-dihydro-	5.04	230	J
08		Unknown 2-Propanone, 1-hydroxy-	5.15	1100	J
09	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	12.32	290	JN
10	112-39-0	Hexadecanoic acid, methyl ester	12.47	410	JN
11	57-10-3	n-Hexadecanoic acid	12.73	230	JN
12	2566-97-4	9,12-Octadecadienoic acid, methyl ester, (E,E)-	13.71	210	JN
13	112-62-9	9-Octadecenoic acid (Z)-, methyl ester	13.75	430	JN
14	1937-62-8	9-Octadecenoic acid, methyl ester, (E)-	13.78	200	JN
15	2319-29-1	Decanamide-	14.21	570	JN
16	301-02-0	9-Octadecenamide, (Z)-	15.14	4000	JNB
17	629-54-9	Hexadecanamide	15.23	210	JNB
18		Unknown Tridecanedial	16.26	280	J
19		Unknown Heptanamide, 4-ethyl-5-methyl-	17.06	540	J
20		Unknown Phthalic anhydride	18.74	810	J
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	2600	J

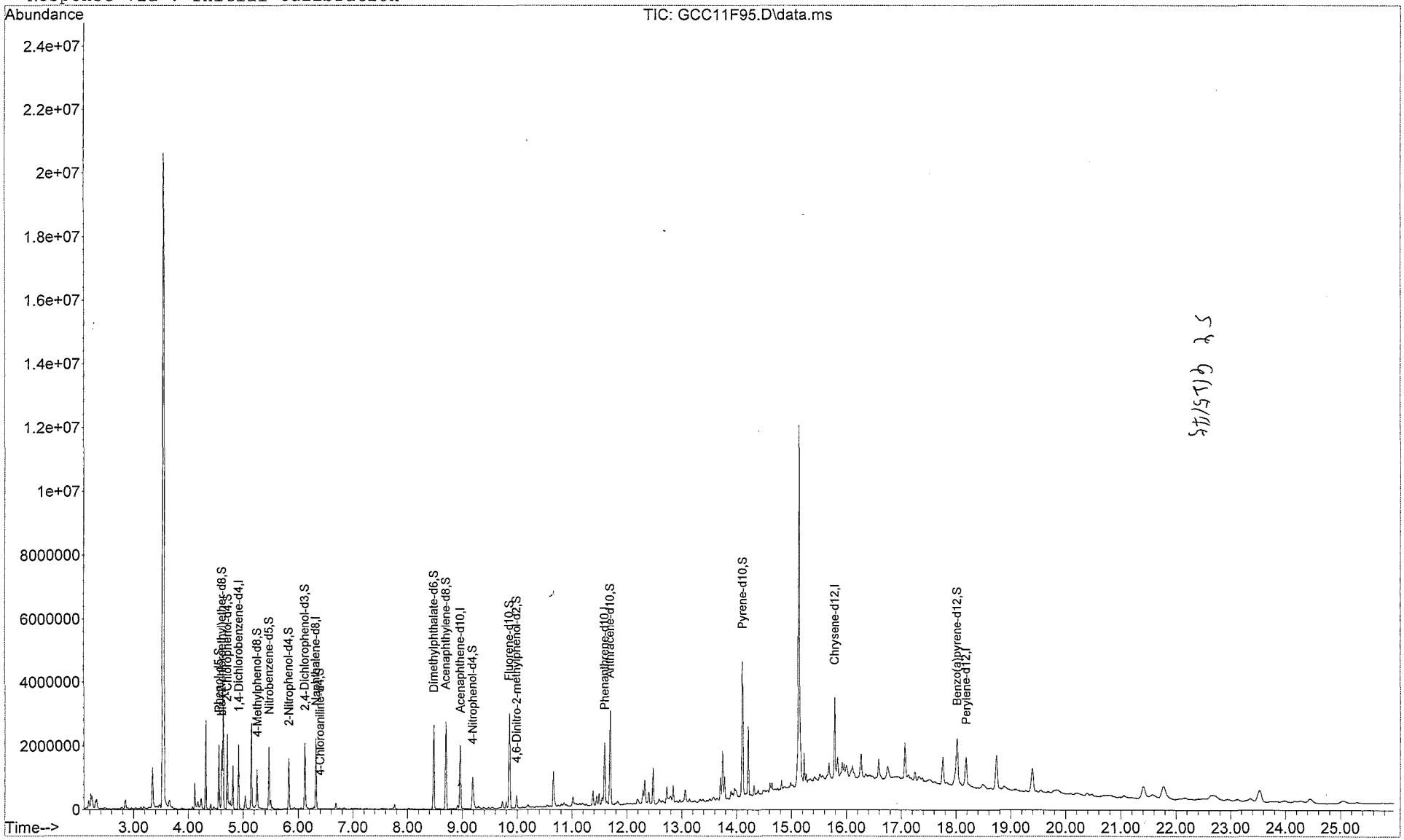
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 25 06:33:34 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration



GCC11F95.D GSOM01D6.M Thu Jun 25 06:38:40 2015 Page 3

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 06:33:34 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.92	152	289030	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1101918	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	658986	20.00 ug/ml
59) Phenanthrene-d10	11.59	188	1093698	20.00 ug/ml
73) Chrysene-d12	15.79	240	1044798	20.00 ug/ml
81) Perylene-d12	18.18	264	639965	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.56	99	678730	26.985ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	444032	22.654ug/mL
7) 2-Chlorophenol-d4	4.71	132	579109	27.270ug/ml
13) 4-Methylphenol-d8	5.25	113	260798	15.502ug/mL
17) Nitrobenzene-d5	5.47	128	256091	26.455ug/ml
21) 2-Nitrophenol-d4	5.83	143	271356	26.521ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	484184	30.390ug/mL
28) 4-Chloroaniline-d4	6.39	131	10568	0.608ug/mL
42) Dimethylphthalate-d6	8.48	166	1401192	33.909ug/mL
45) Acenaphthylene-d8	8.70	160	1605919	28.597ug/mL
50) 4-Nitrophenol-d4	9.19	143	281696	33.416ug/mL
57) Fluorene-d10	9.86	176	1171721	33.203ug/mL
61) 4,6-Dinitro-2-methylphenol	9.99	200	68002	8.760ug/mL
69) Anthracene-d10	11.69	188	1805423	31.128ug/mL
75) Pyrene-d10	14.11	212	1763875	33.829ug/mL
86) Benzo(a)pyrene-d12	18.02	264	902277	29.423ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

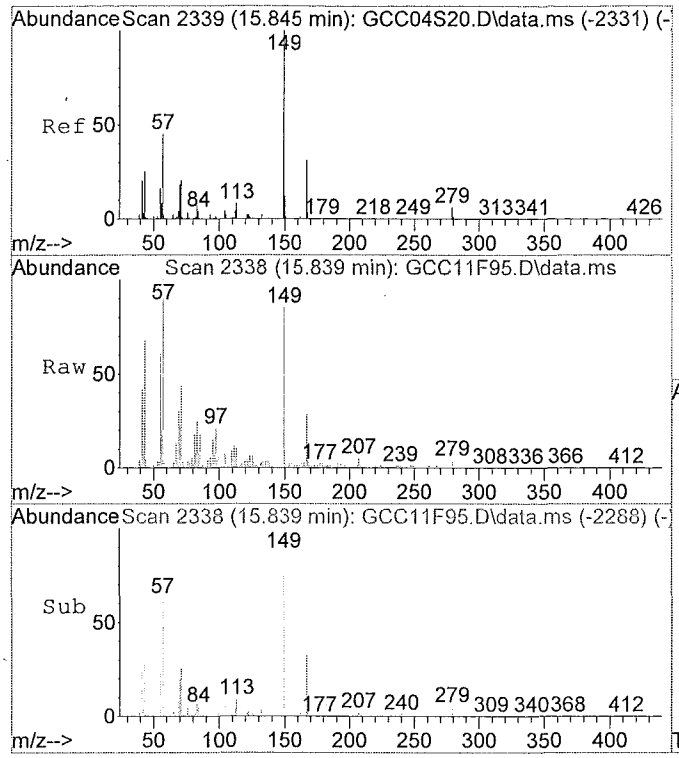
Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 06:33:34 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 10:46:54 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	0.00	152		Not Detected	
46)	3-Nitroaniline	0.00	138		Not Detected	
47)	Acenaphthene	0.00	153		Not Detected	
48)	2,4-Dinitrophenol	0.00	184		Not Detected	
49)	4-Nitrophenol	0.00	109		Not Detected	
51)	Dibenzofuran	0.00	168		Not Detected	
52)	2,4-Dinitrotoluene	0.00	165		Not Detected	
53)	2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54)	Diethylphthalate	0.00	149		Not Detected	
55)	4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56)	Fluorene	0.00	166		Not Detected	
58)	4-Nitroaniline	0.00	138		Not Detected	
60)	4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62)	N-Nitrosodiphenylamine	0.00	169		Not Detected	
63)	4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64)	Hexachlorobenzene	0.00	284		Not Detected	
65)	Atrazine	0.00	200		Not Detected	
66)	Pentachlorophenol	0.00	266		Not Detected	
67)	Phenanthrene	0.00	178		Not Detected	
68)	Anthracene	0.00	178		Not Detected	
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	0.00	202		Not Detected	
74)	Pyrene	0.00	202		Not Detected	
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	0.00	228		Not Detected	
79)	Chrysene	0.00	228		Not Detected	
80)	Bis-(2-ethylhexyl)phthalat	15.84	149	168163	3.255ug/ml	98
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	0.00	252		Not Detected	
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	0.00	252		Not Detected	
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

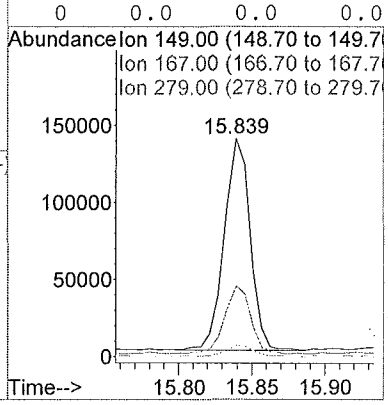
09774



#80
Bis-(2-ethylhexyl)phthalate
Concen: 3.25 ug/ml
RT: 15.84 min Scan# 2338
Delta R.T. -0.01 min
Lab File: GCC11F95.D
Acq: 06/24/2015 12:26

Tgt Ion:149 Resp: 168163

Ion	Ratio	Lower	Upper
149	100		
167	32.3	22.0	40.8
279	5.8	5.0	9.2
0	0.0	0.0	0.0



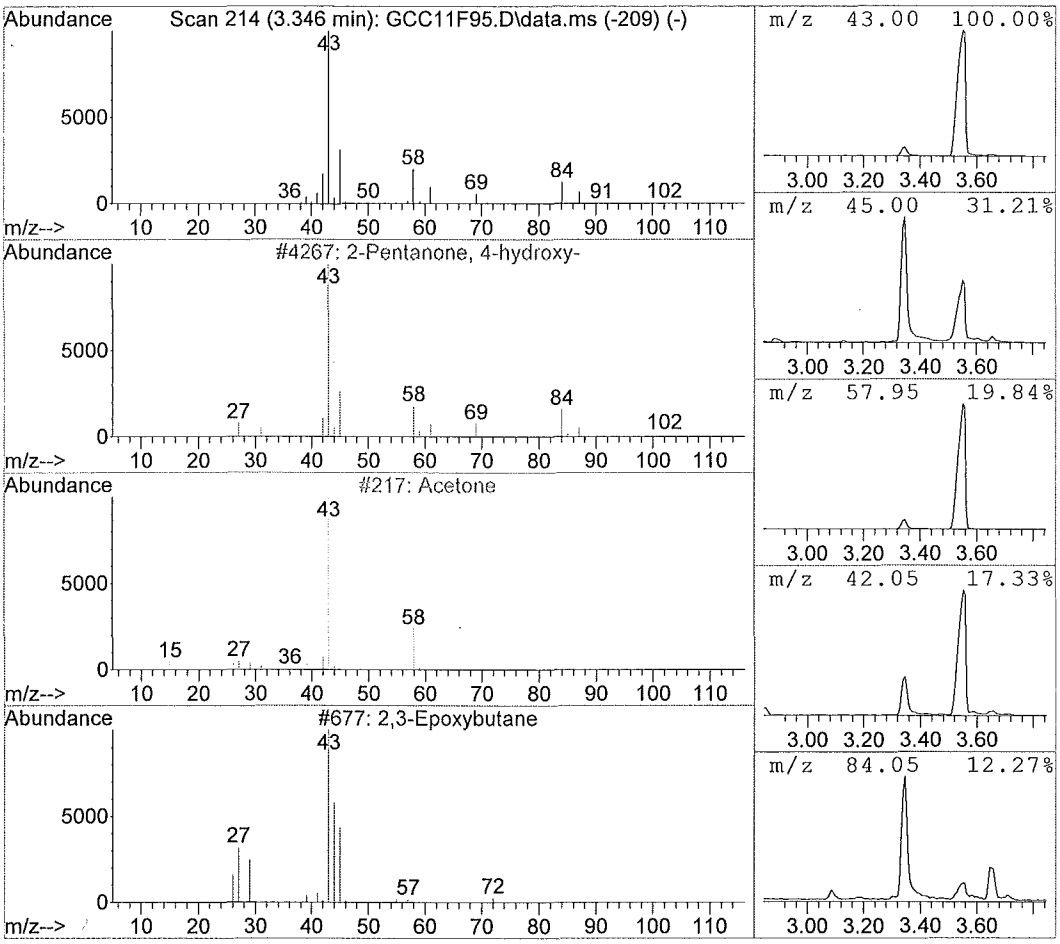
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.35	17.47 ug/ml	1755413	1,4-Dichlorobenzene-d4	2009928

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	42.00
2	Acetone	217	000067-64-1	25.00
3	2,3-Epoxybutane	677	003266-23-7	12.00
4	Ethylamine	86	000075-04-7	9.00
5	Hydroperoxide, 1-methylethyl	947	003031-75-2	9.00

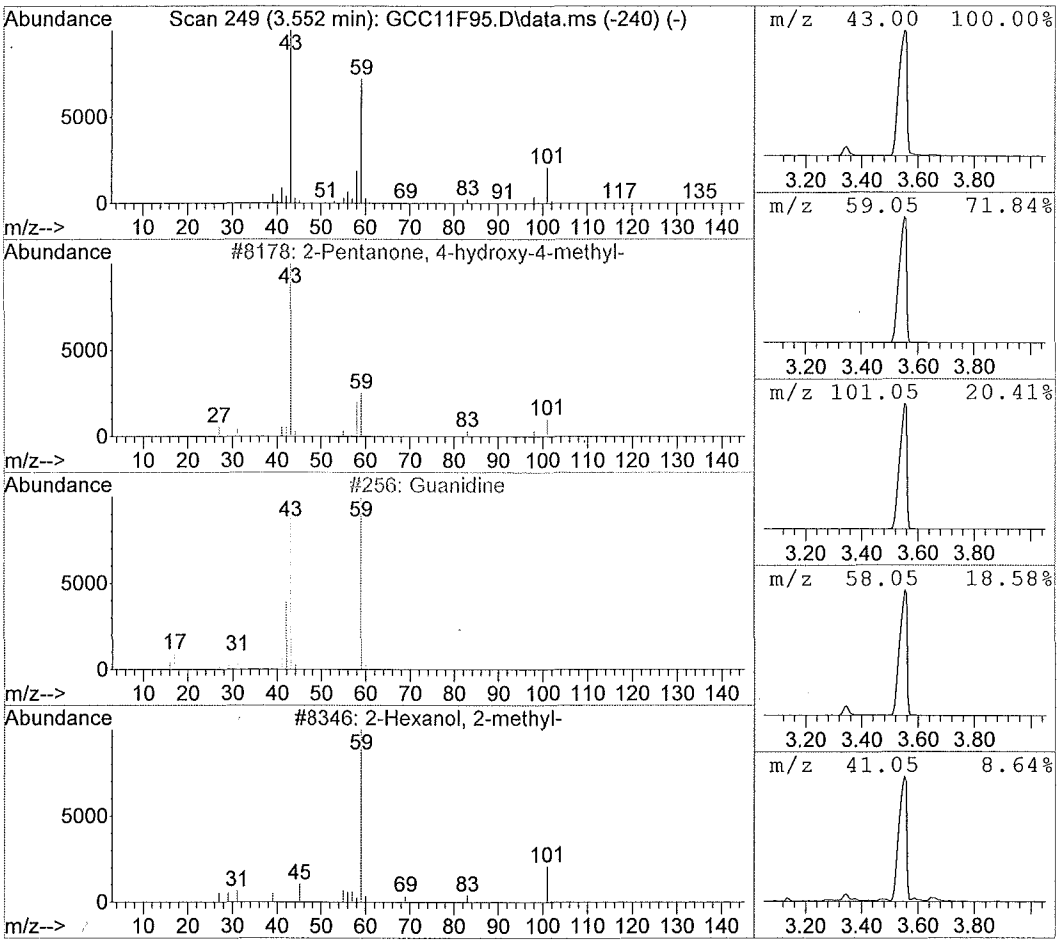


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.55	377.80 ug/ml	37967460	1,4-Dichlorobenzene-d4	2009928

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	64.00
2	Guanidine	256	000113-00-8	43.00
3	2-Hexanol, 2-methyl-	8346	000625-23-0	33.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	17.00
5	Acetone	214	000067-64-1	9.00

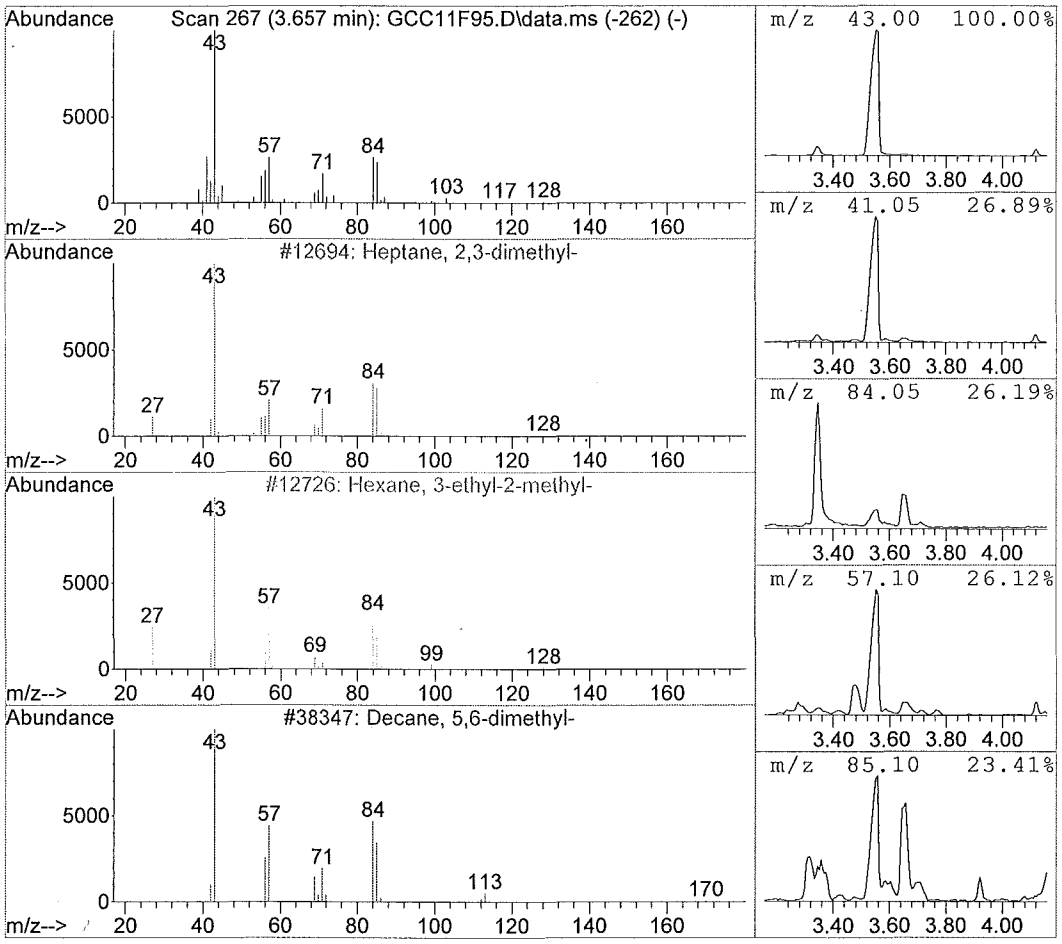


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.66	4.04 ug/ml	405856	1,4-Dichlorobenzene-d4	2009928

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12694	003074-71-3	81.00
2	Hexane, 3-ethyl-2-methyl-	12726	016789-46-1	68.00
3	Decane, 5,6-dimethyl-	38347	001636-43-7	53.00
4	Oxalic acid, isohexyl pentyl ester	97056	1000309-32-8	53.00
5	Hexane, 3-ethyl-	7621	000619-99-8	50.00

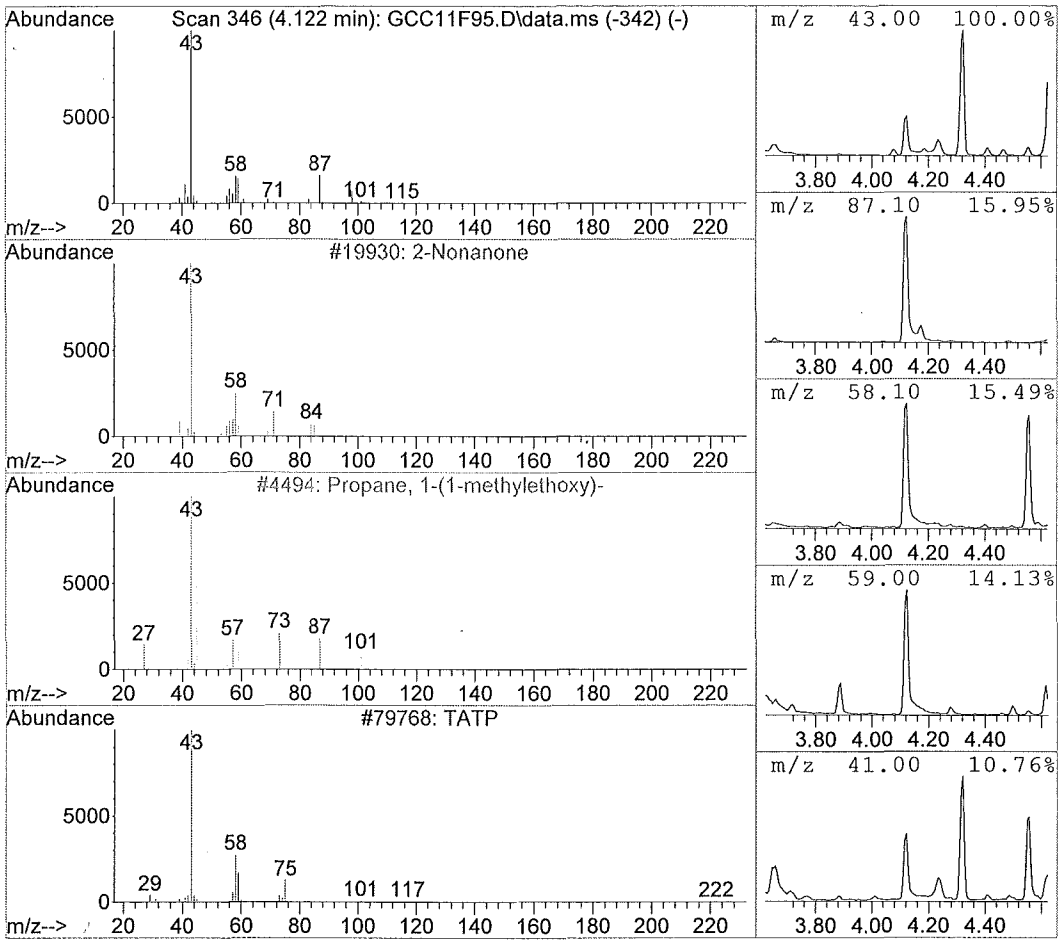


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.12	9.44 ug/ml	948418	1,4-Dichlorobenzene-d4	2009928

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Nonanone	19930	000821-55-6	40.00
2	Propane, 1-(1-methylethoxy)-	4494	000627-08-7	33.00
3	TATP	79768	017088-37-8	23.00
4	.alpha.-Hydroxyisobutyric acid, ace	21841	1000374-31-3	17.00
5	S-(-)-2-Methylbutylamine	1929	020626-52-2	9.00



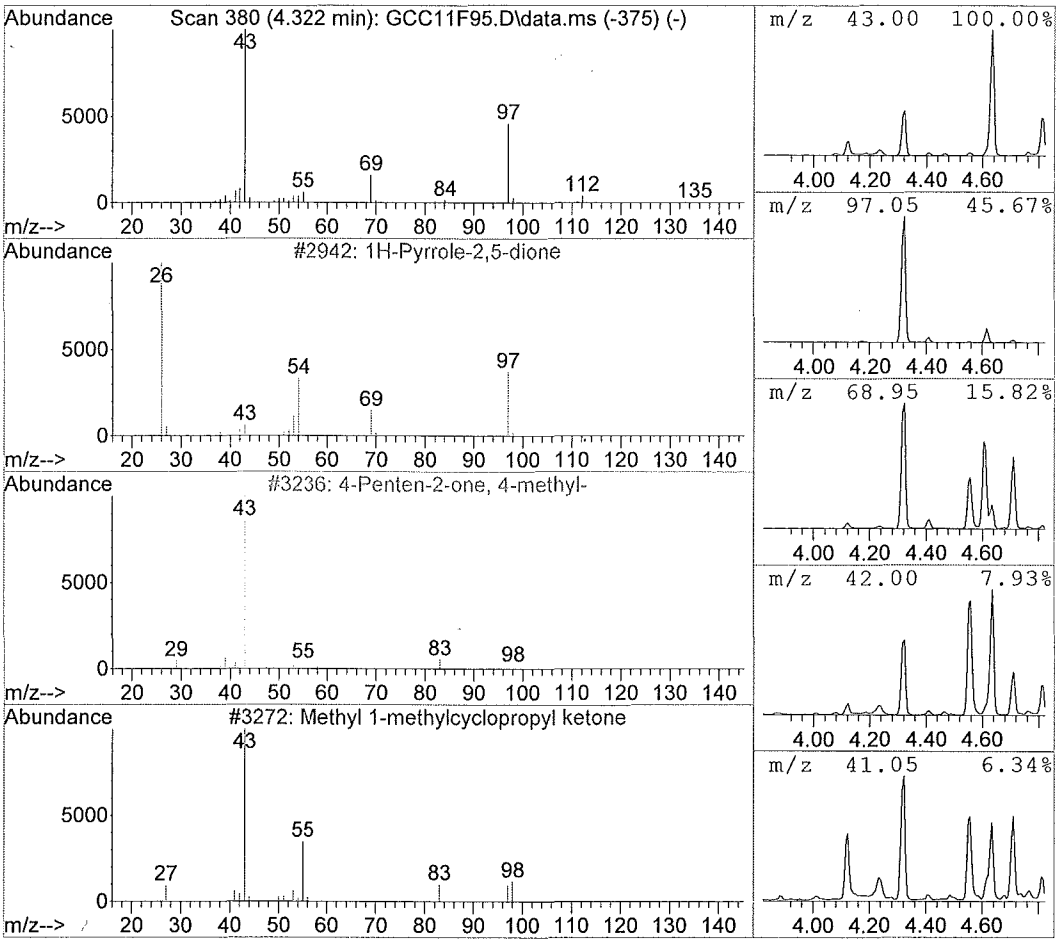
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.32	26.58 ug/ml	2671091	1,4-Dichlorobenzene-d4	2009928

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	50.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00
4	5-Hexen-2-one	3158	000109-49-9	9.00
5	2-Vinylethyl acetate	7190	001576-84-7	9.00

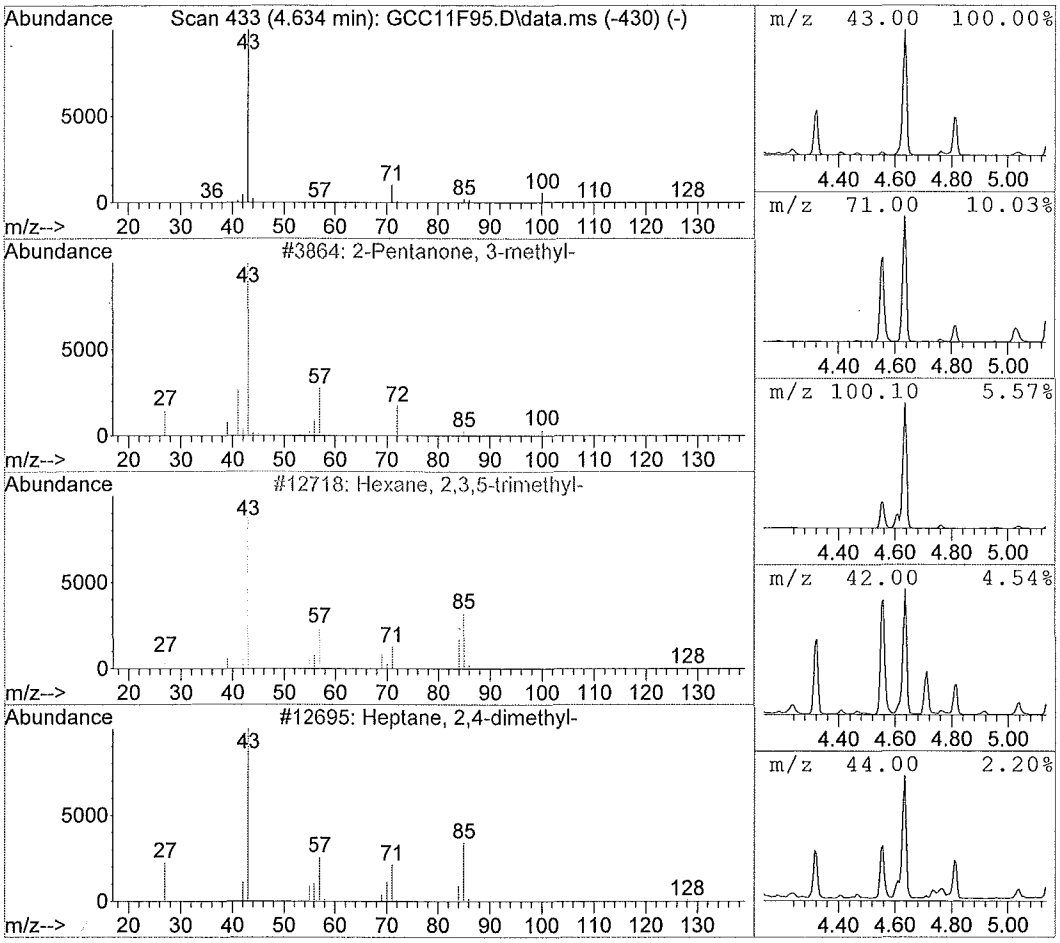


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.63	44.07 ug/ml	4429046	1,4-Dichlorobenzene-d4	2009928

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 3-methyl-	3864	000565-61-7	9.00
2	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
3	Heptane, 2,4-dimethyl-	12695	002213-23-2	5.00
4	1-Butanol, 2-methylene-, acetate	12273	055670-09-2	5.00
5	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00

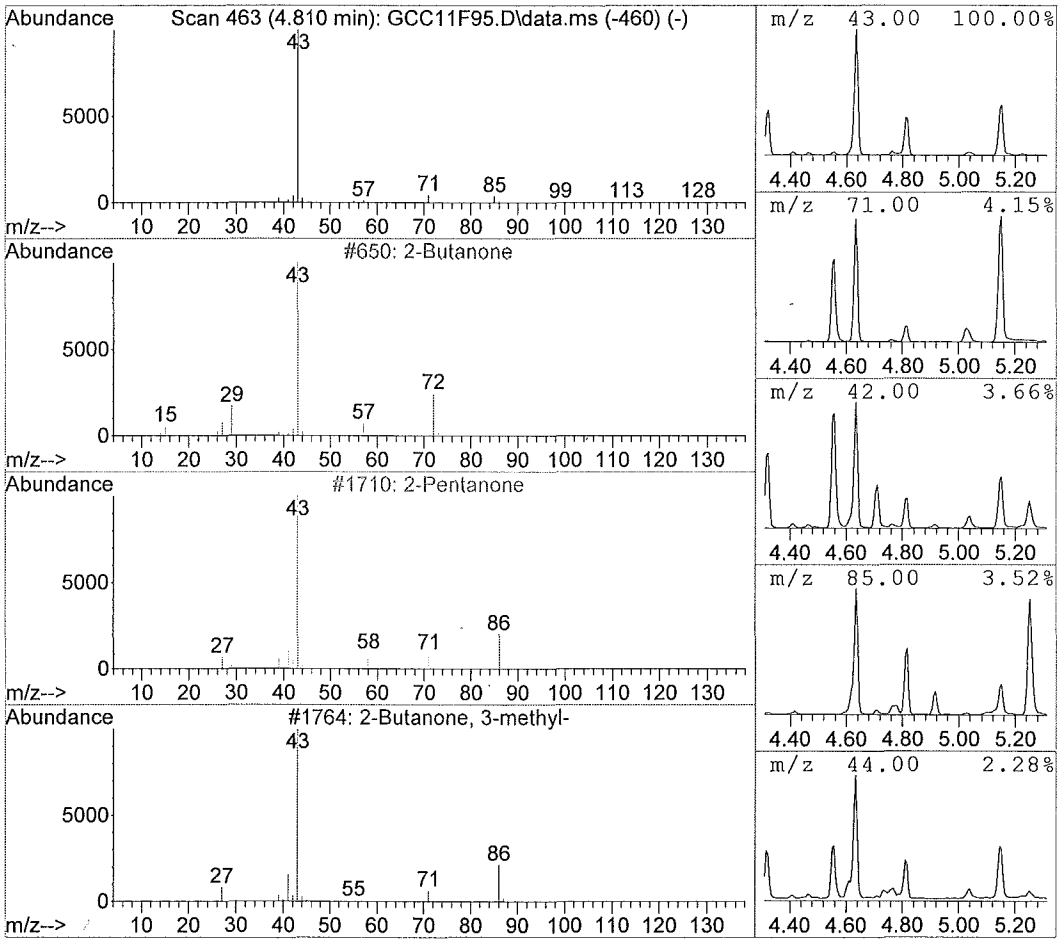


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.81	13.28 ug/ml	1334311	1,4-Dichlorobenzene-d4	2009928

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Butanone	650	000078-93-3	4.00
2	2-Pentanone	1710	000107-87-9	4.00
3	2-Butanone, 3-methyl-	1764	000563-80-4	4.00
4	Butane, 2,3-dimethyl-	1832	000079-29-8	3.00
5	Hydrogen azide	70	007782-79-8	2.00

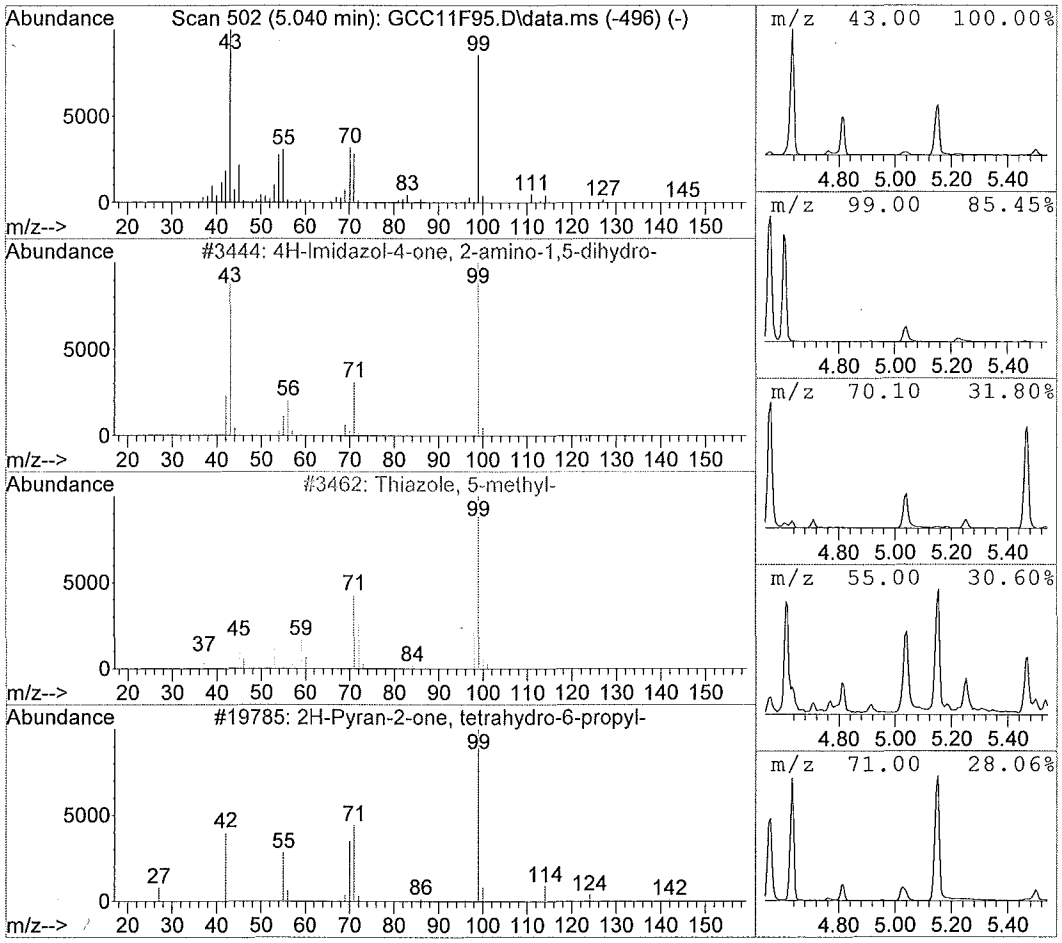


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.04	6.33 ug/ml	636588	1,4-Dichlorobenzene-d4	2009928

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4H-Imidazol-4-one, 2-amino-1,5-dihy	3444	000503-86-6	46.00
2	Thiazole, 5-methyl-	3462	003581-89-3	42.00
3	2H-Pyran-2-one, tetrahydro-6-propyl	19785	000698-76-0	38.00
4	2H-Pyran-2-one, tetrahydro-6-pentyl	38050	000705-86-2	38.00
5	Furan, 2,5-dihydro-2,5-dimethoxy-	13267	000332-77-4	37.00



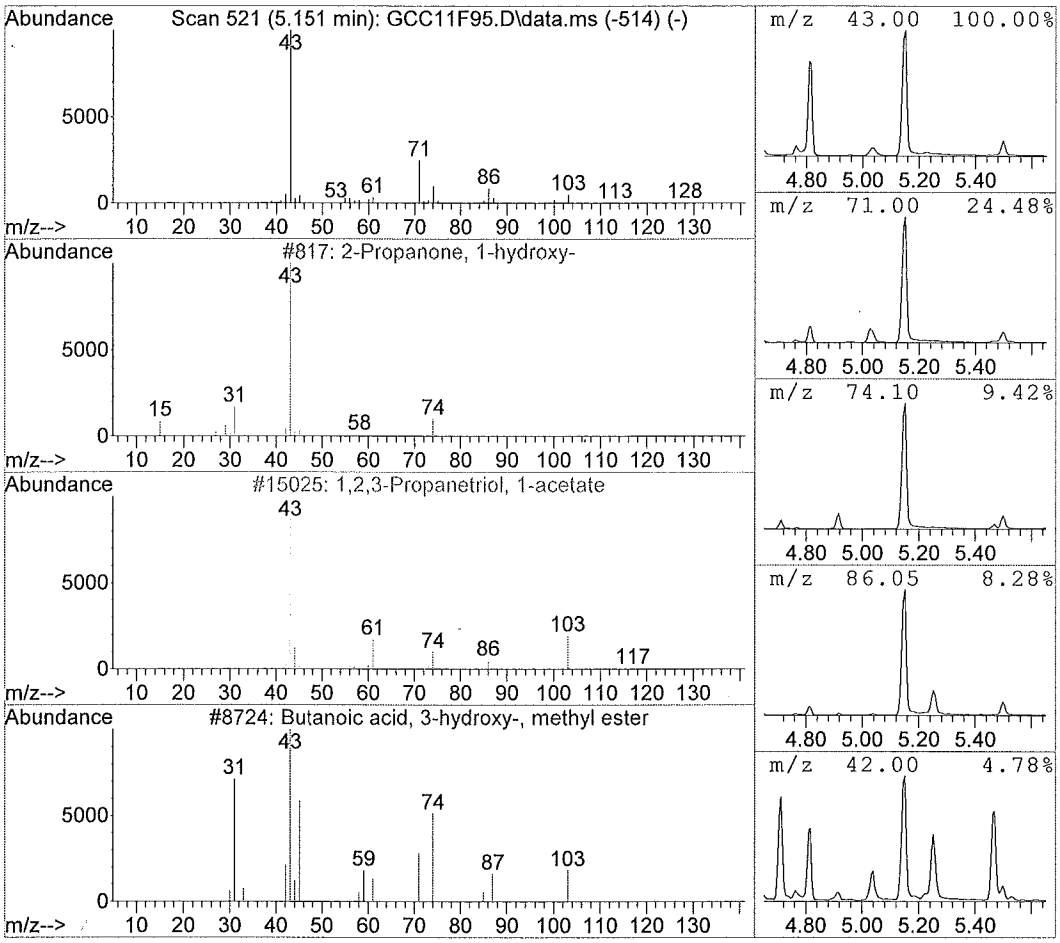
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.15	30.51 ug/ml	3065834	1,4-Dichlorobenzene-d4	2009928

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-hydroxy-	817	000116-09-6	27.00
2	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	23.00
3	Butanoic acid, 3-hydroxy-, methyl e	8724	001487-49-6	12.00
4	1-Propanol, 2-methyl-	856	000078-83-1	10.00
5	Pentanal, 2-methyl-	3836	000123-15-9	9.00



Library Search Compound Report

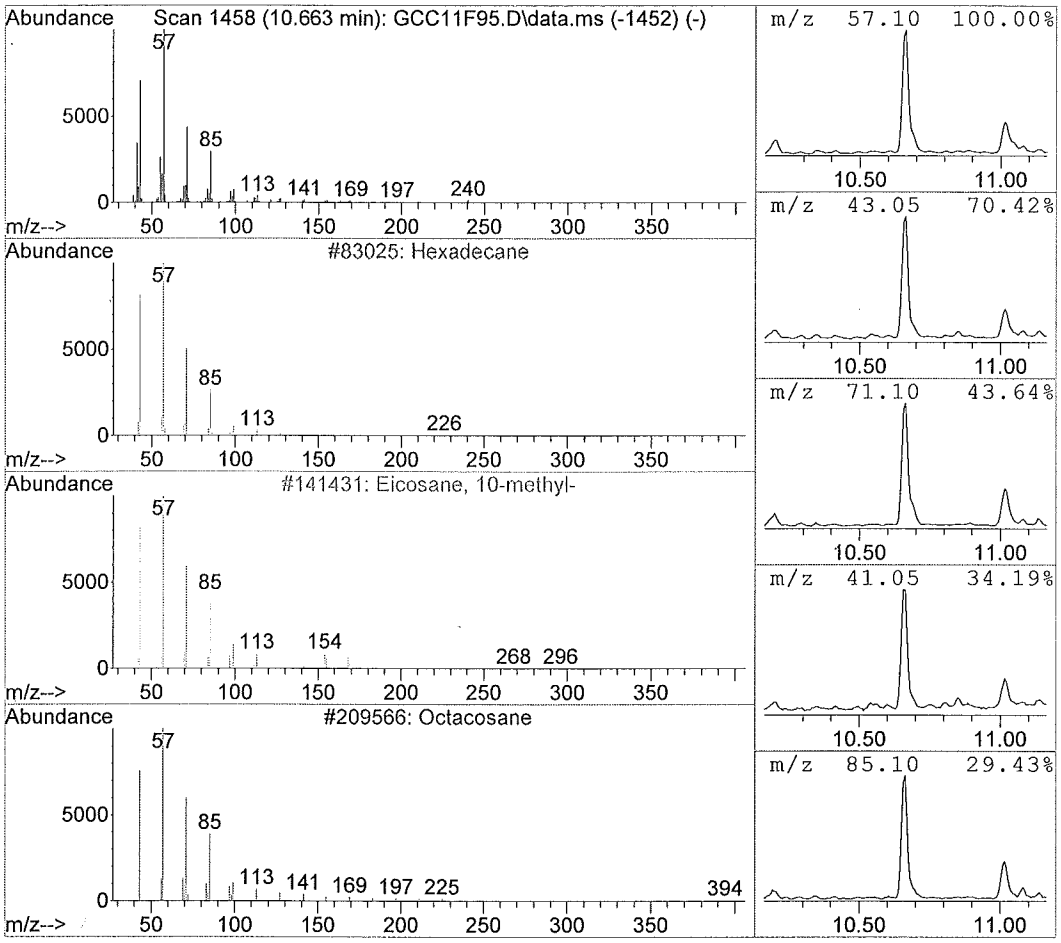
Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.66	13.17 ug/ml	1816833	Phenanthrene-d10	2759499

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane	83025	000544-76-3	90.00
2	Eicosane, 10-methyl-	141431	054833-23-7	90.00
3	Octacosane	209566	000630-02-4	90.00
4	Heneicosane	141425	000629-94-7	90.00
5	Nonadecane	117637	000629-92-5	86.00

SA



00782

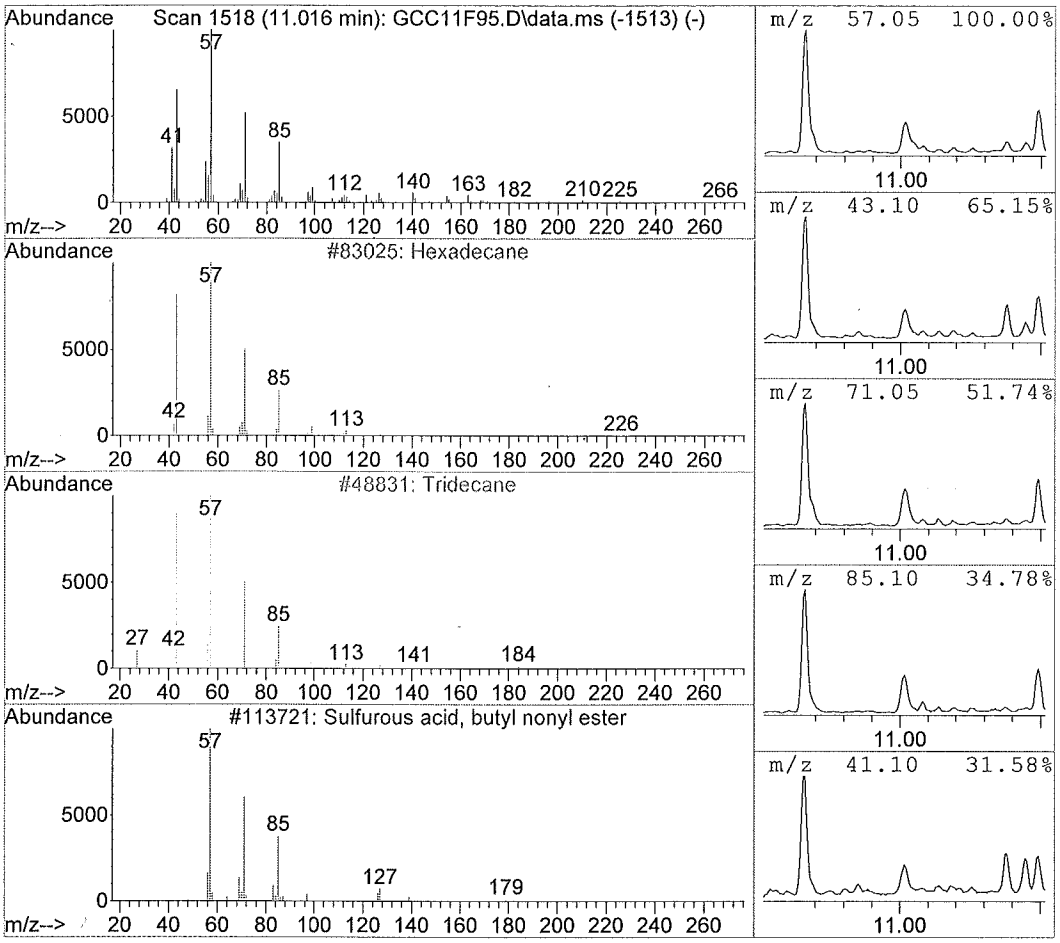
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.02	4.09 ug/ml	564020	Phenanthrene-d10	2759499

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane	83025	000544-76-3	86.00
2	Tridecane	48831	000629-50-5	76.00
3	Sulfurous acid, butyl nonyl ester	113721	1000309-17-6	64.00
4	Silane, trichlorooctadecyl-	205394	000112-04-9	64.00
5	Nonadecane, 9-methyl-	129499	013287-24-6	64.00



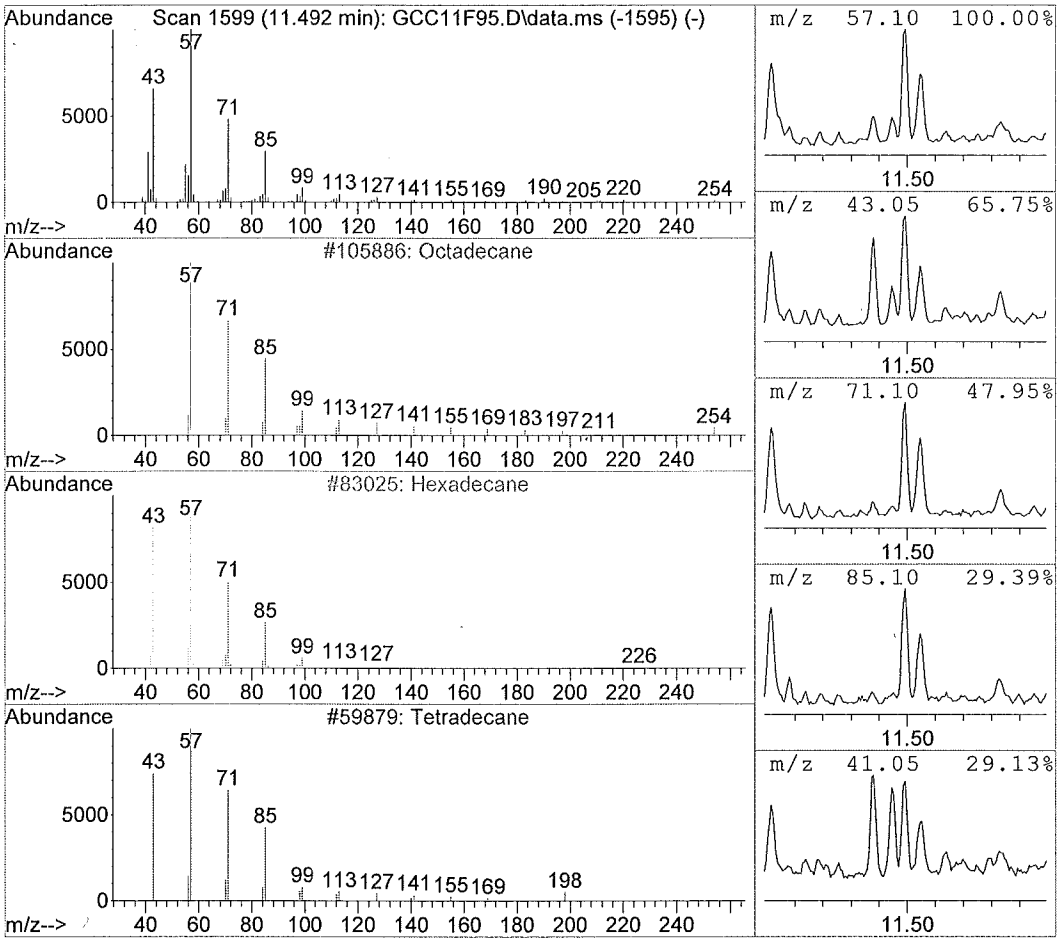
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.49	3.17 ug/ml	437923	Phenanthrene-d10	2759499

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1 Octadecane	SA	105886	000593-45-3	93.00
2 Hexadecane		83025	000544-76-3	86.00
3 Tetradecane		59879	000629-59-4	86.00
4 Pentadecane		71393	000629-62-9	86.00
5 Tridecane		48835	000629-50-5	86.00



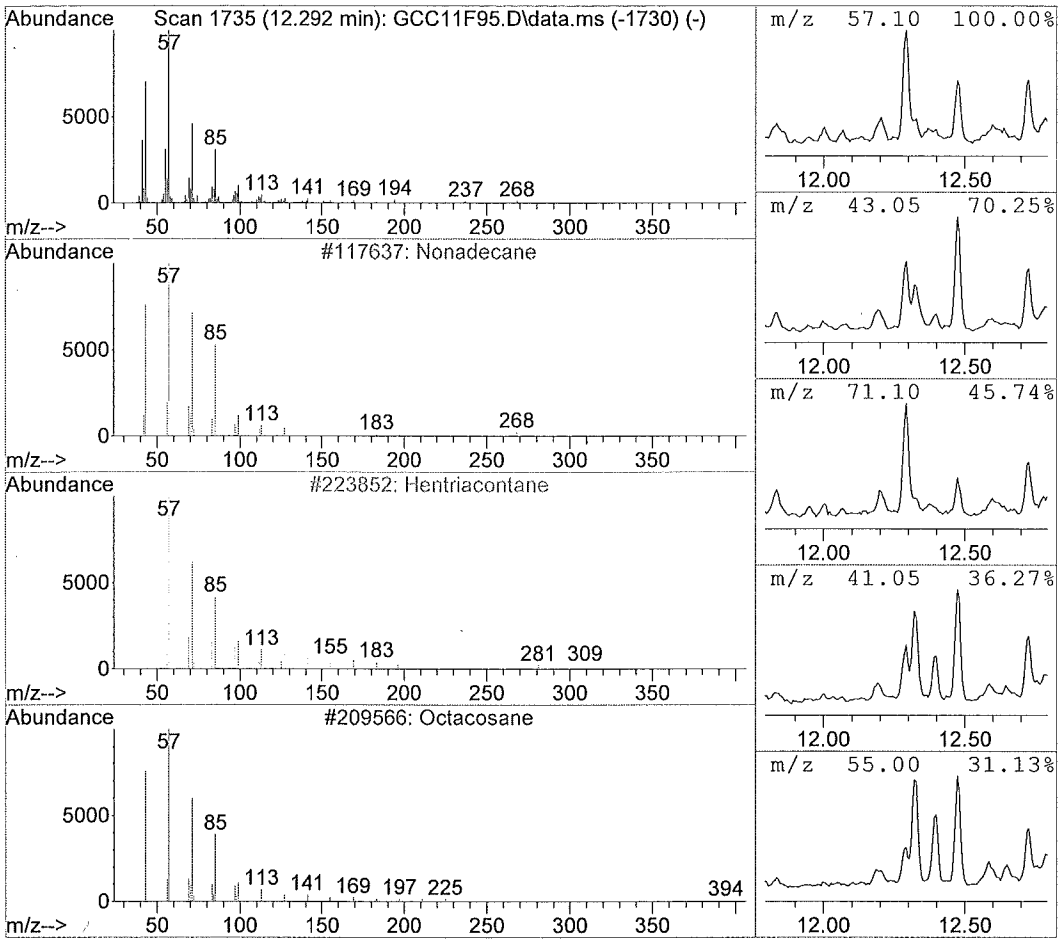
Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.29	4.48 ug/ml	618678	Phenanthrene-d10	2759499

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonadecane	117637	000629-92-5	93.00
2	Hentriacontane	223852	000630-04-6	86.00
3	Octacosane	209566	000630-02-4	83.00
4	Dodecane	38318	000112-40-3	81.00
5	Tridecane	48835	000629-50-5	81.00

SA



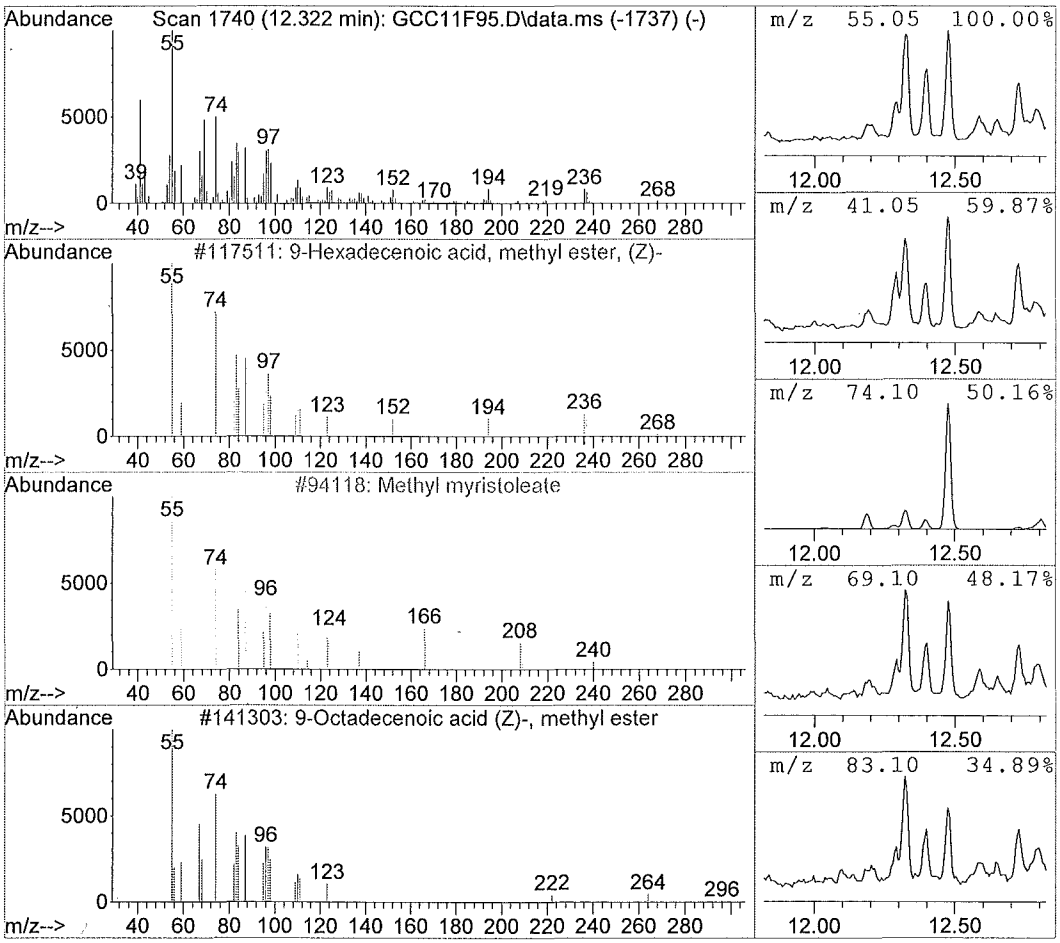
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.32	8.01 ug/ml	1105418	Phenanthrene-d10	2759499

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Hexadecenoic acid, methyl ester,	117511	001120-25-8	96.00
2	Methyl myristoleate	94118	056219-06-8	87.00
3	9-Octadecenoic acid (Z)-, methyl es	141303	000112-62-9	87.00
4	Methyl hexadec-9-enoate	117464	010030-74-7	87.00
5	Cyclopropaneoctanoic acid, 2-hexyl-	129412	010152-61-1	86.00

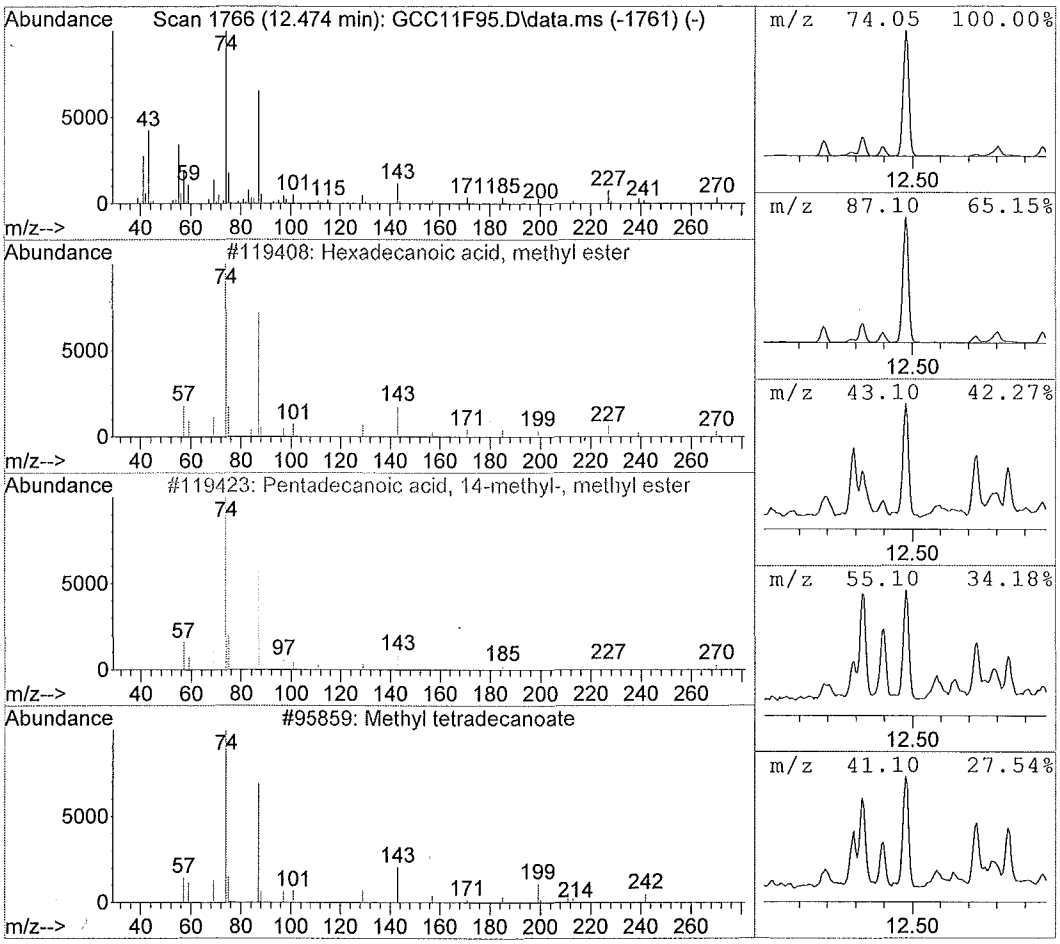


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.47	11.31 ug/ml	1560455	Phenanthrene-d10	2759499

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, methyl ester	119408	000112-39-0	97.00
2	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	96.00
3	Methyl tetradecanoate	95859	000124-10-7	93.00
4	Pentadecanoic acid, methyl ester	107596	007132-64-1	90.00
5	Dodecanoic acid, methyl ester	72681	000111-82-0	87.00

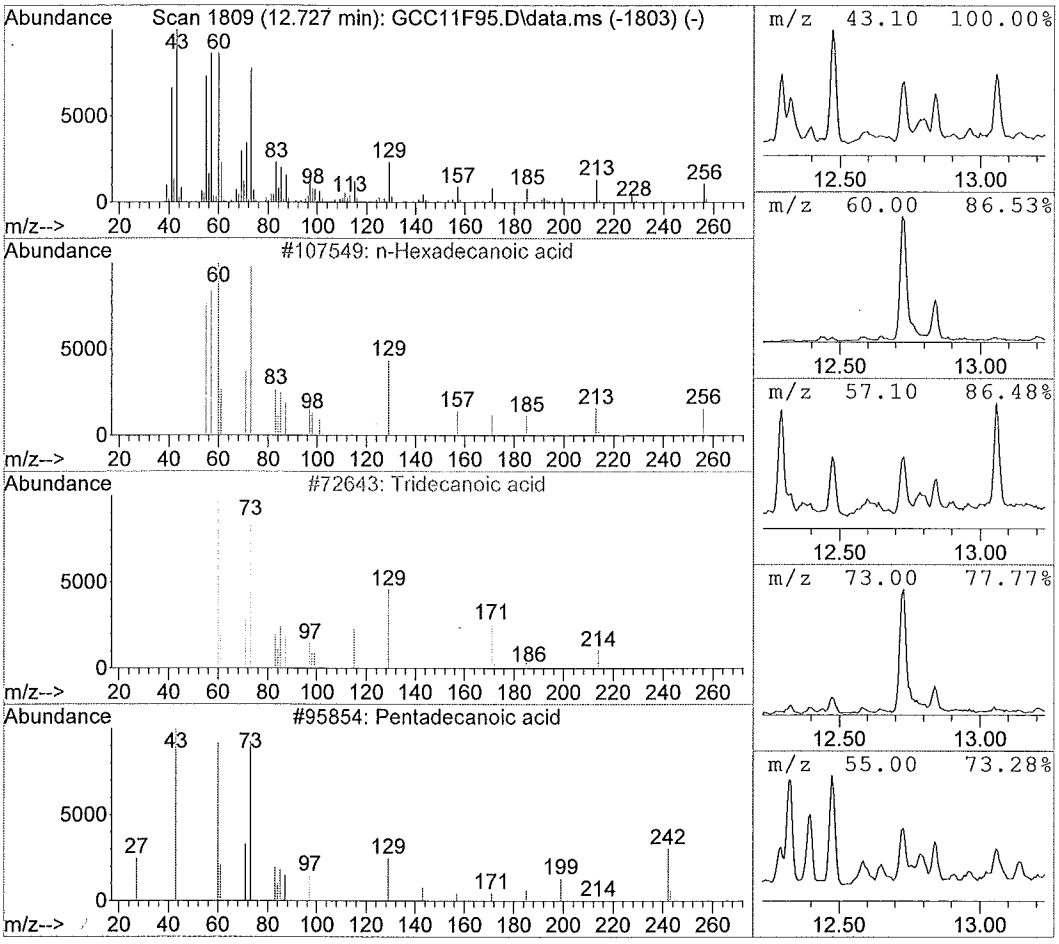


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.73	6.28 ug/ml	866755	Phenanthrene-d10	2759499

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Tridecanoic acid	72643	000638-53-9	93.00
3	Pentadecanoic acid	95854	001002-84-2	87.00
4	Undecanoic acid	50051	000112-37-8	59.00
5	Octanoic acid, silver(1+) salt	102674	024927-67-1	43.00



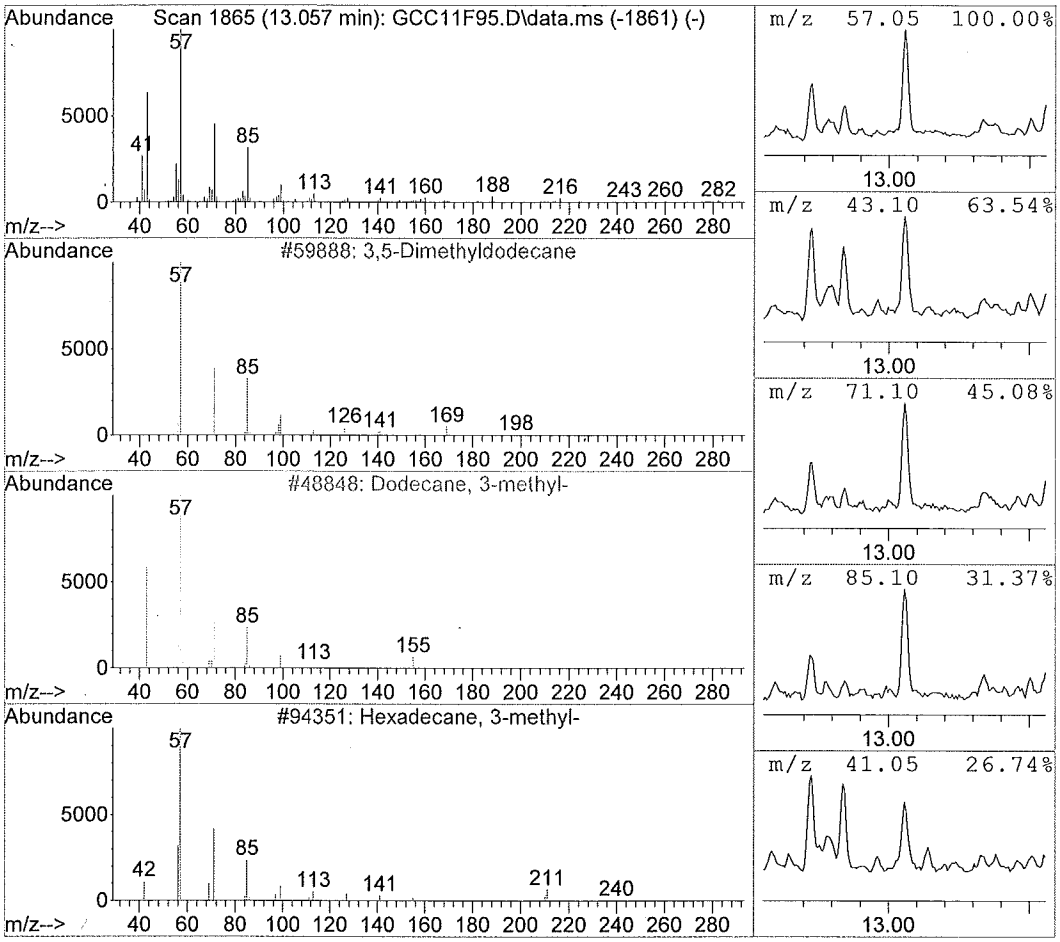
Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.06	4.72 ug/ml	651356	Phenanthrene-d10	2759499

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3,5-Dimethyldodecane	59888	107770-99-0	87.00
2	Dodecane, 3-methyl-	48848	017312-57-1	86.00
3	Hexadecane, 3-methyl-	94351	006418-43-5	86.00
4	Pentadecane	71393	000629-62-9	80.00
5	Sulfurous acid, 2-propyl tetradecyl	161094	1000309-12-5	80.00

BA



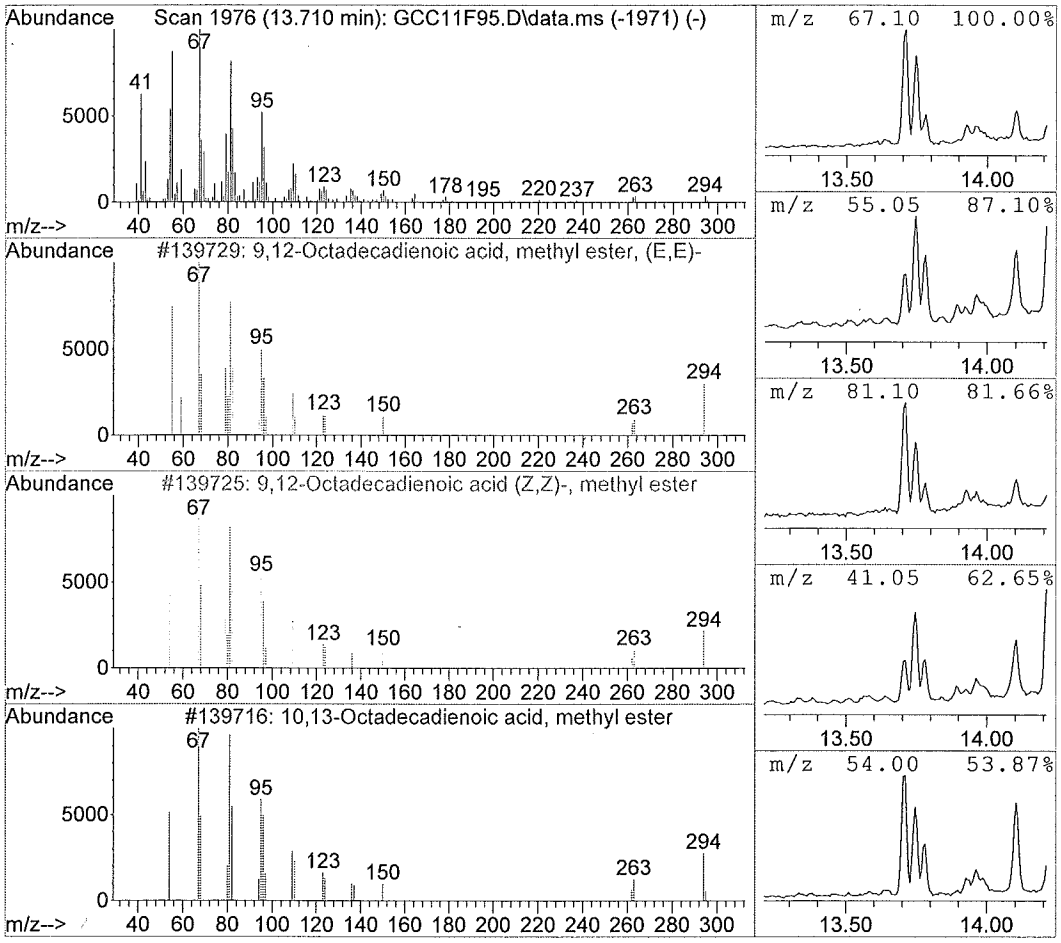
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.71	5.87 ug/ml	926169	Chrysene-d12	3156229

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9,12-Octadecadienoic acid, methyl e	139729	002566-97-4	99.00
2	9,12-Octadecadienoic acid (Z,Z)-, m	139725	000112-63-0	99.00
3	10,13-Octadecadienoic acid, methyl	139716	056554-62-2	99.00
4	Methyl 10-trans,12-cis-octadecadien	139709	1000336-44-2	99.00
5	9,12-Octadecadienoic acid, methyl e	139708	002462-85-3	98.00

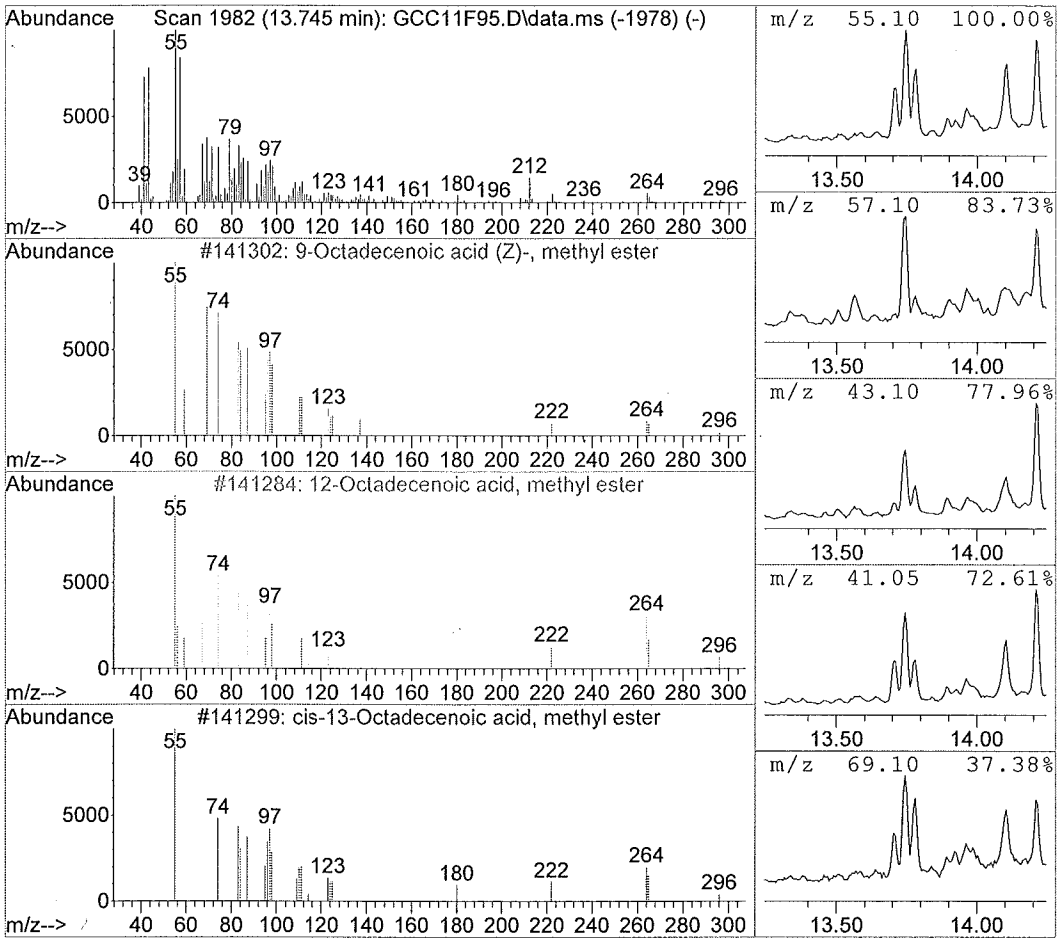


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.75	12.09 ug/ml	1908623	Chrysene-d12	3156229

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenoic acid (Z)-, methyl es	141302	000112-62-9	98.00
2	12-Octadecenoic acid, methyl ester	141284	056554-46-2	95.00
3	cis-13-Octadecenoic acid, methyl es	141299	1000333-58-3	95.00
4	10-Octadecenoic acid, methyl ester	141285	013481-95-3	92.00
5	9-Octadecenoic acid, methyl ester,	141309	001937-62-8	91.00

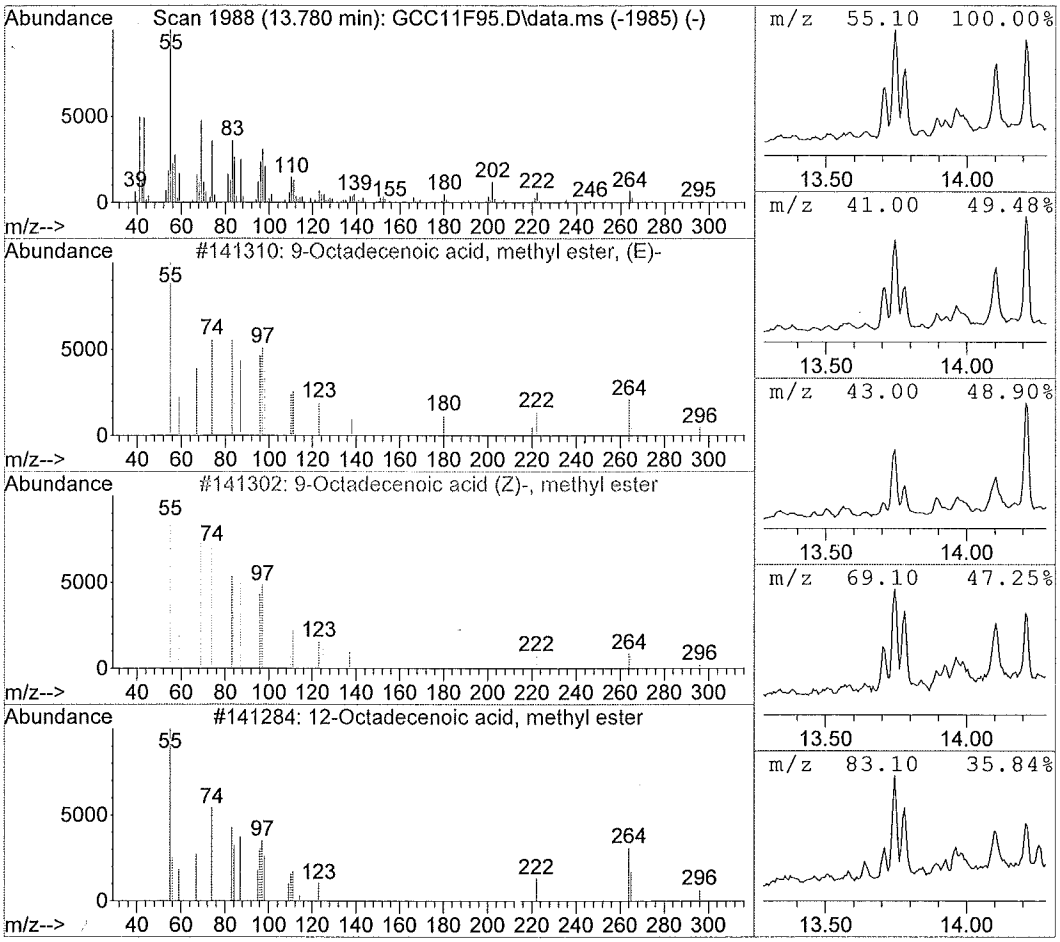


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.78	5.48 ug/ml	865343	Chrysene-d12	3156229

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenoic acid, methyl ester,	141310	001937-62-8	86.00
2	9-Octadecenoic acid (Z)-, methyl es	141302	000112-62-9	83.00
3	12-Octadecenoic acid, methyl ester	141284	056554-46-2	80.00
4	Cyclopropaneoctanoic acid, 2-hexyl-	129412	010152-61-1	72.00
5	trans-13-Octadecenoic acid	129357	000693-71-0	68.00

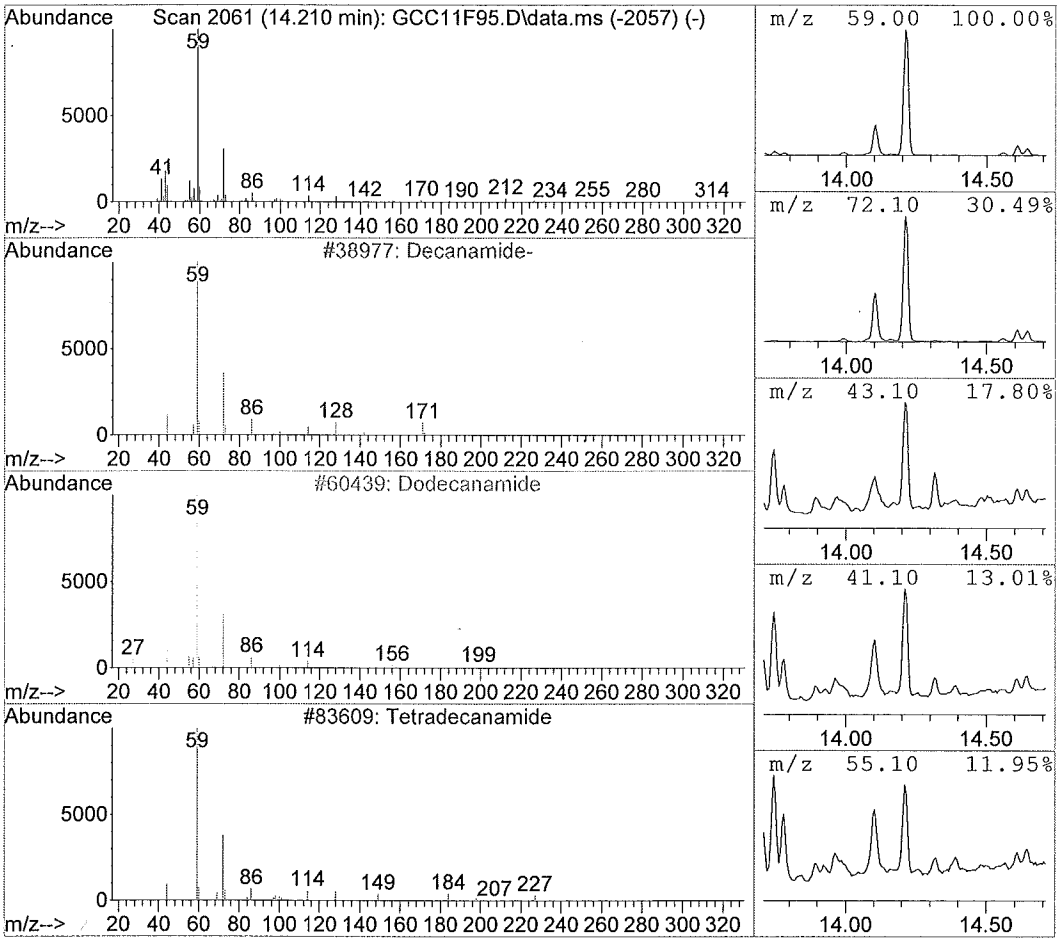


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.21	15.98 ug/ml	2521471	Chrysene-d12	3156229

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decanamide-	38977	002319-29-1	91.00
2	Dodecanamide	60439	001120-16-7	90.00
3	Tetradecanamide	83609	000638-58-4	83.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	83.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	83.00

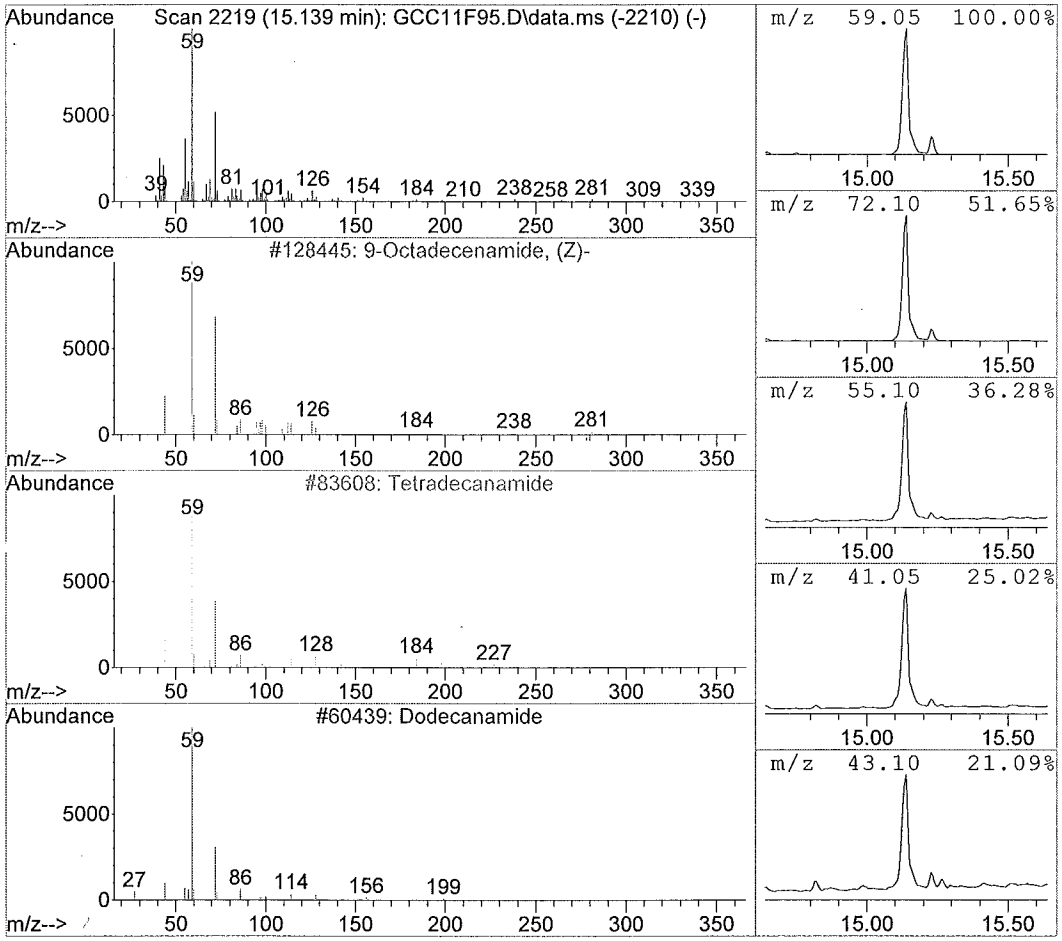


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.14	110.41 ug/ml	17424556	Chrysene-d12	3156229

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Tetradecanamide	83608	000638-58-4	72.00
3	Dodecanamide	60439	001120-16-7	59.00
4	Hexadecanamide	106565	000629-54-9	56.00
5	Decanamide-	38977	002319-29-1	56.00

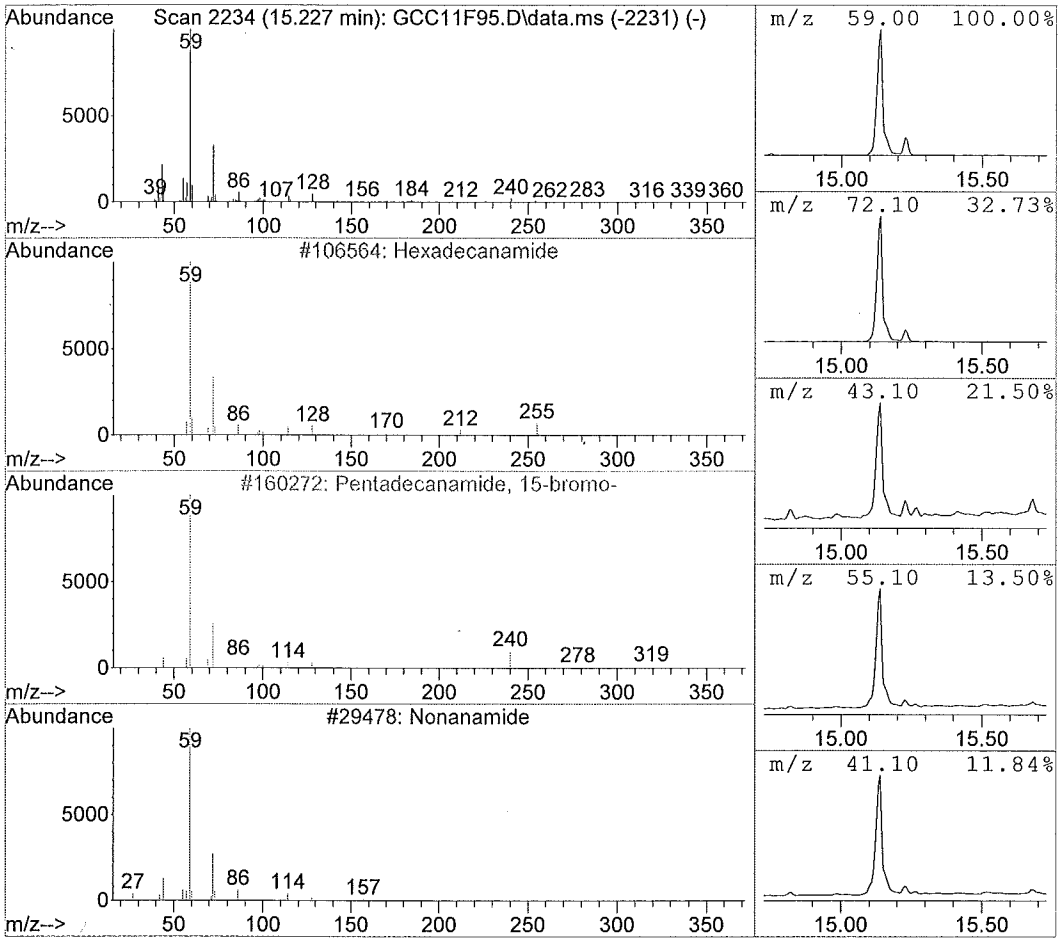


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.23	5.78 ug/ml	912638	Chrysene-d12	3156229

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	95.00
2	Pentadecanamide, 15-bromo-	160272	1000163-86-1	90.00
3	Nonanamide	29478	001120-07-6	72.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	72.00
5	Tetradecanamide	83609	000638-58-4	72.00



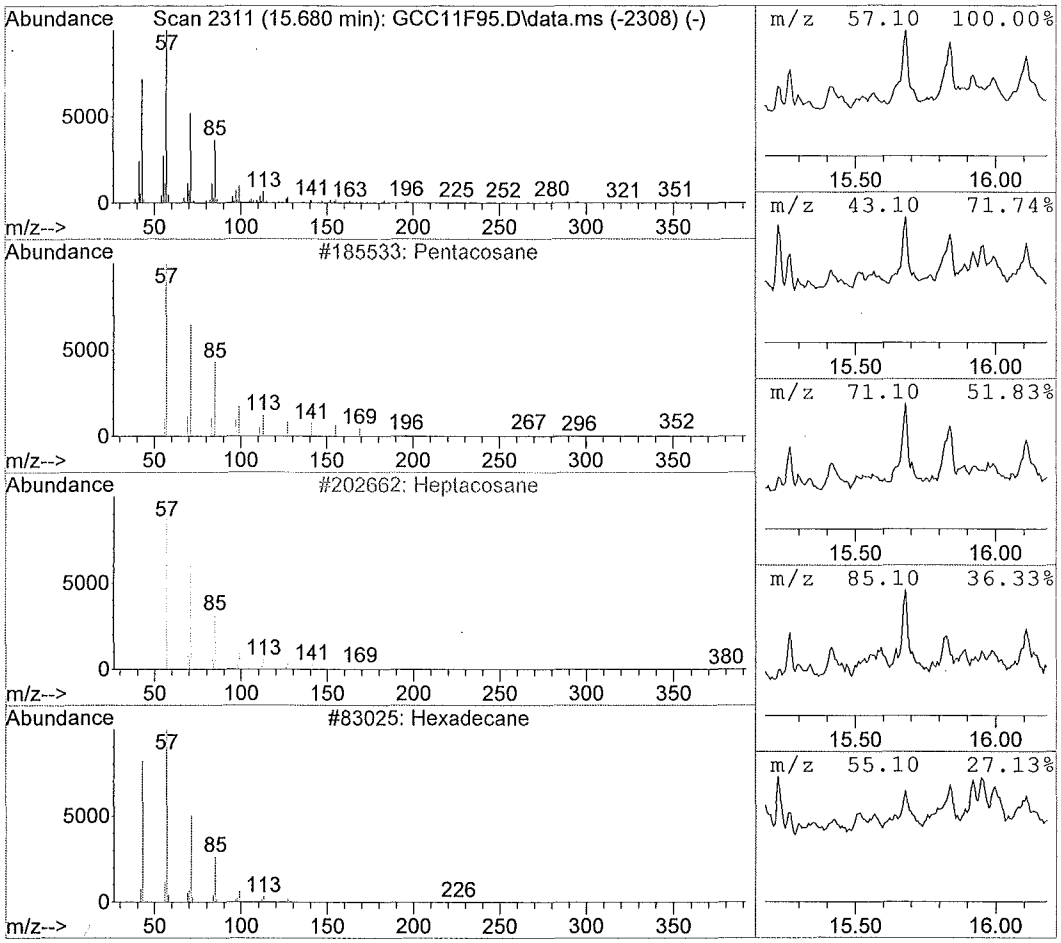
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.68	4.24 ug/ml	669832	Chrysene-d12	3156229

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentacosane SA	185533	000629-99-2	90.00
2	Heptacosane	202662	000593-49-7	86.00
3	Hexadecane	83025	000544-76-3	83.00
4	Dodecane, 1-iodo-	140551	004292-19-7	80.00
5	Undecane, 3-methyl-	38327	001002-43-3	80.00

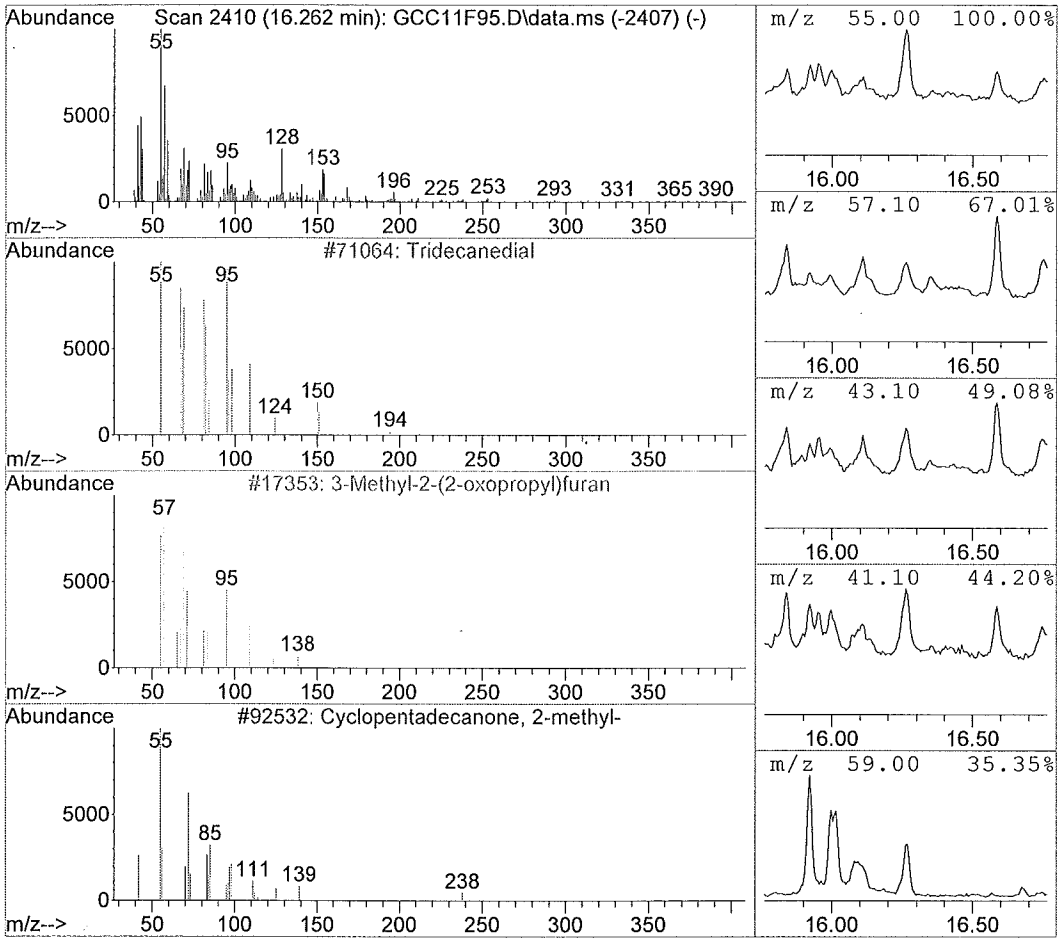


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.26	7.76 ug/ml	1225303	Chrysene-d12	3156229

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecanedial	71064	063521-76-6	35.00
2	3-Methyl-2-(2-oxopropyl)furan	17353	087773-62-4	25.00
3	Cyclopentadecanone, 2-methyl-	92532	052914-66-6	25.00
4	5-Decen-3-one, 9-hydroxy-2,2,9-trim	71111	1000196-75-0	18.00
5	Cyclododecanone, 2-methyl-	58195	016837-94-8	15.00



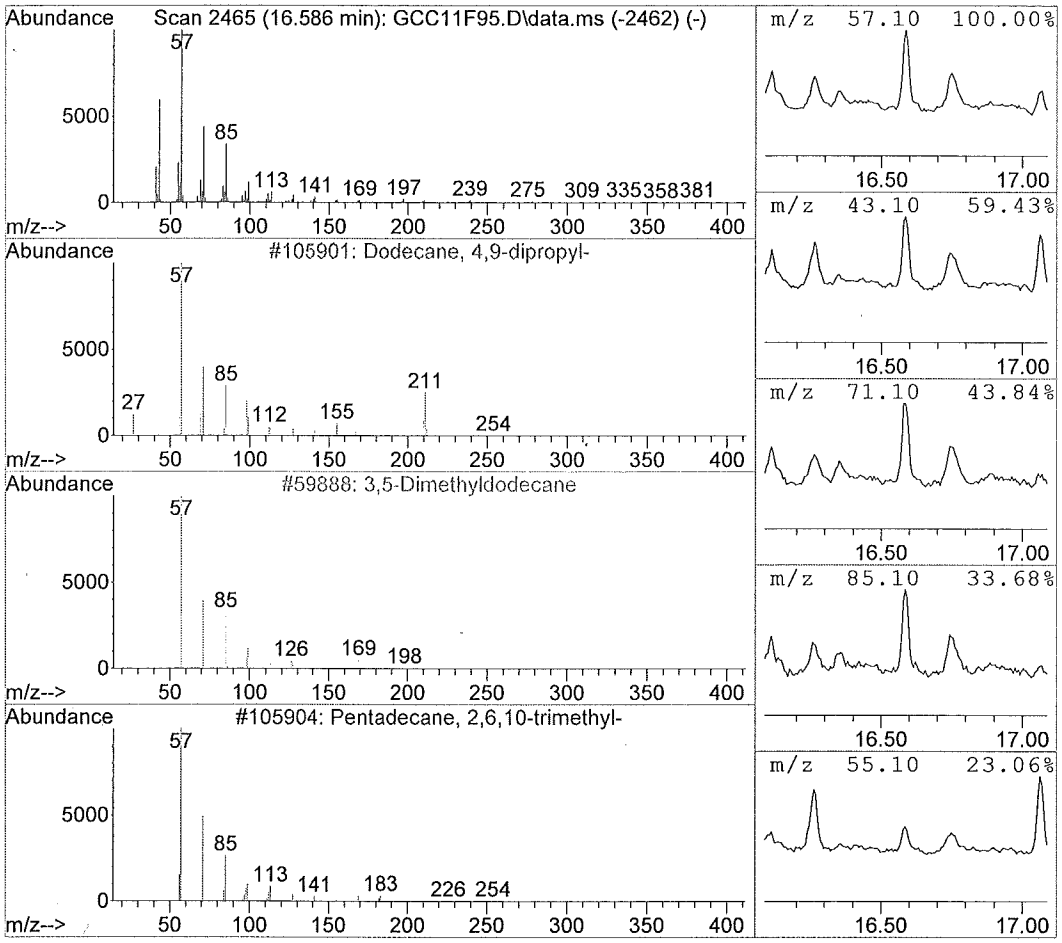
Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.59	6.66 ug/ml	1051274	Chrysene-d12	3156229

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane, 4,9-dipropyl-	105901	003054-63-5	87.00
2	3,5-Dimethyldodecane	59888	107770-99-0	87.00
3	Pentadecane, 2,6,10-trimethyl-	105904	003892-00-0	87.00
4	Hexatriacontane	235973	000630-06-8	83.00
5	Heptacosane	202661	000593-49-7	83.00

BA

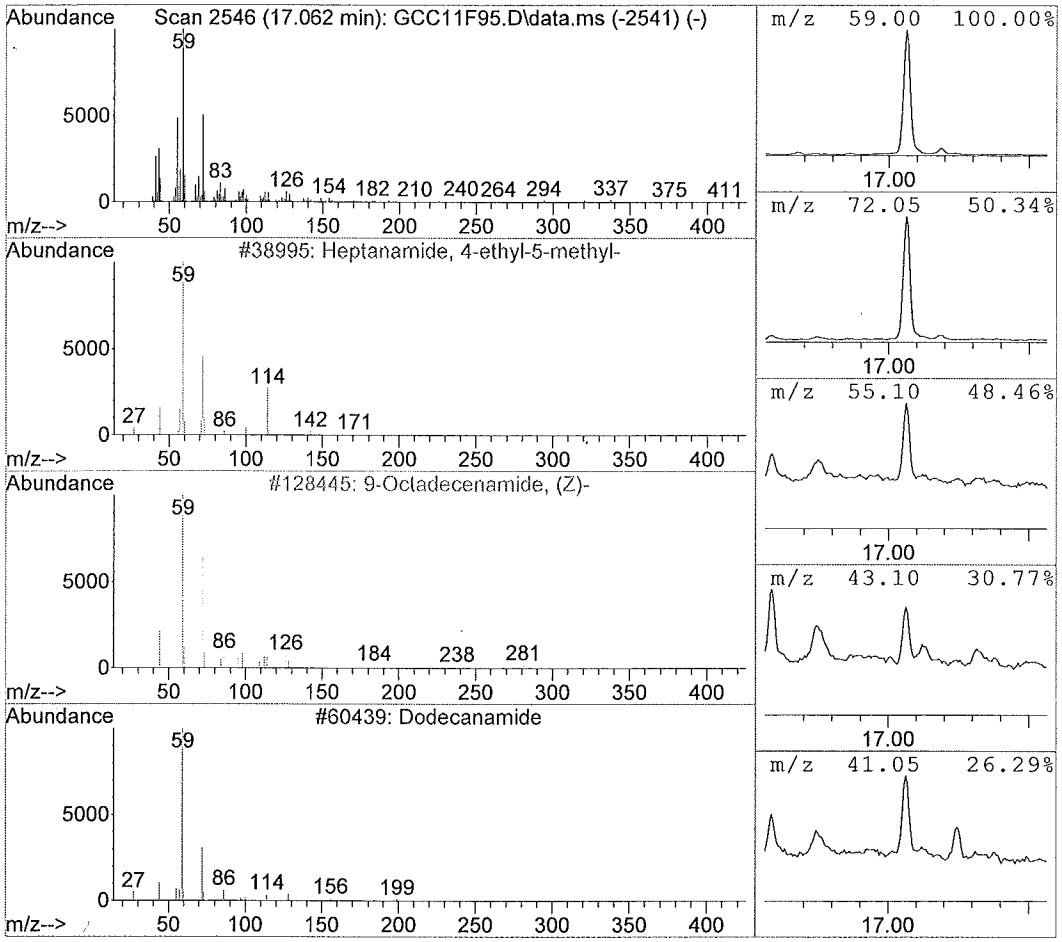


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.06	14.89 ug/ml	1744156	Perylene-d12	2342640

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	64.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	62.00
3	Dodecanamide	60439	001120-16-7	59.00
4	Nonanamide	29478	001120-07-6	53.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	50.00

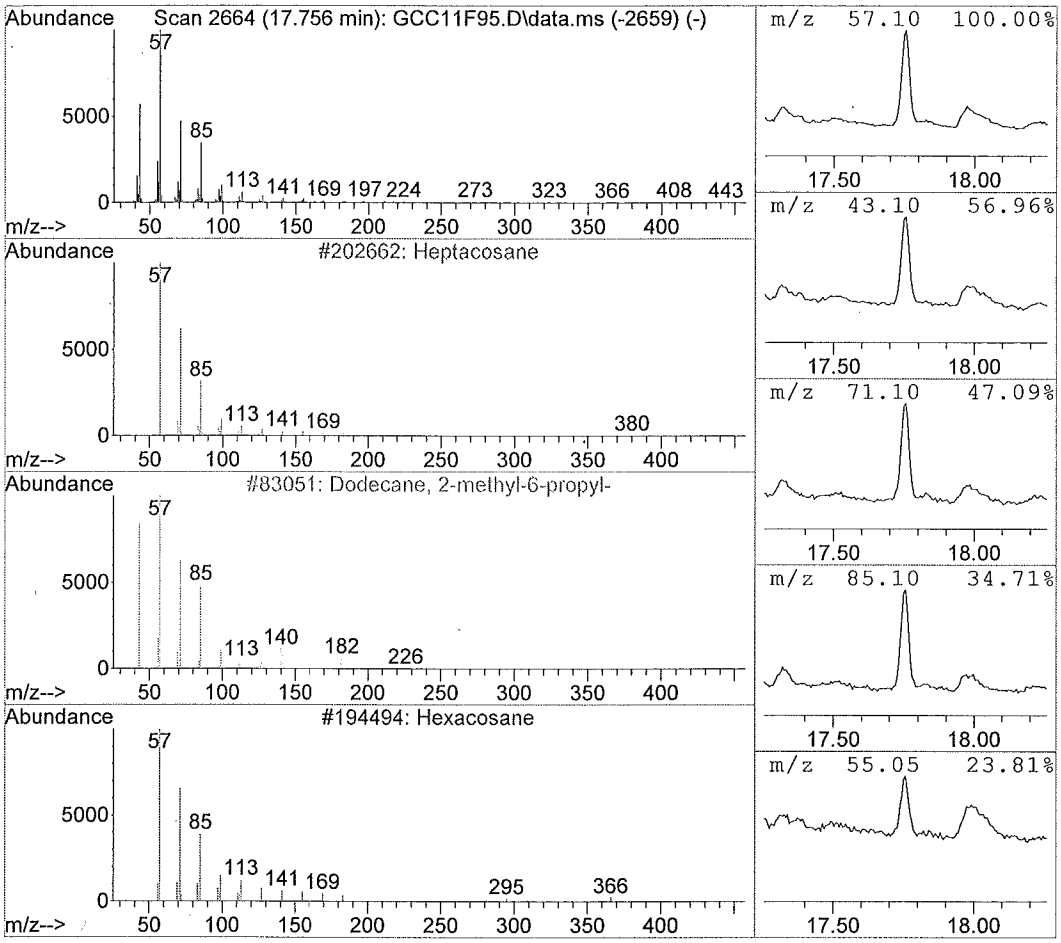


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.76	12.85 ug/ml	1504895	Perylene-d12	2342640

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	93.00
2	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	93.00
3	Hexacosane	194494	000630-01-3	93.00
4	Heneicosane, 11-pentyl-	194505	014739-72-1	90.00
5	Eicosane, 3-methyl-	141428	006418-46-8	90.00

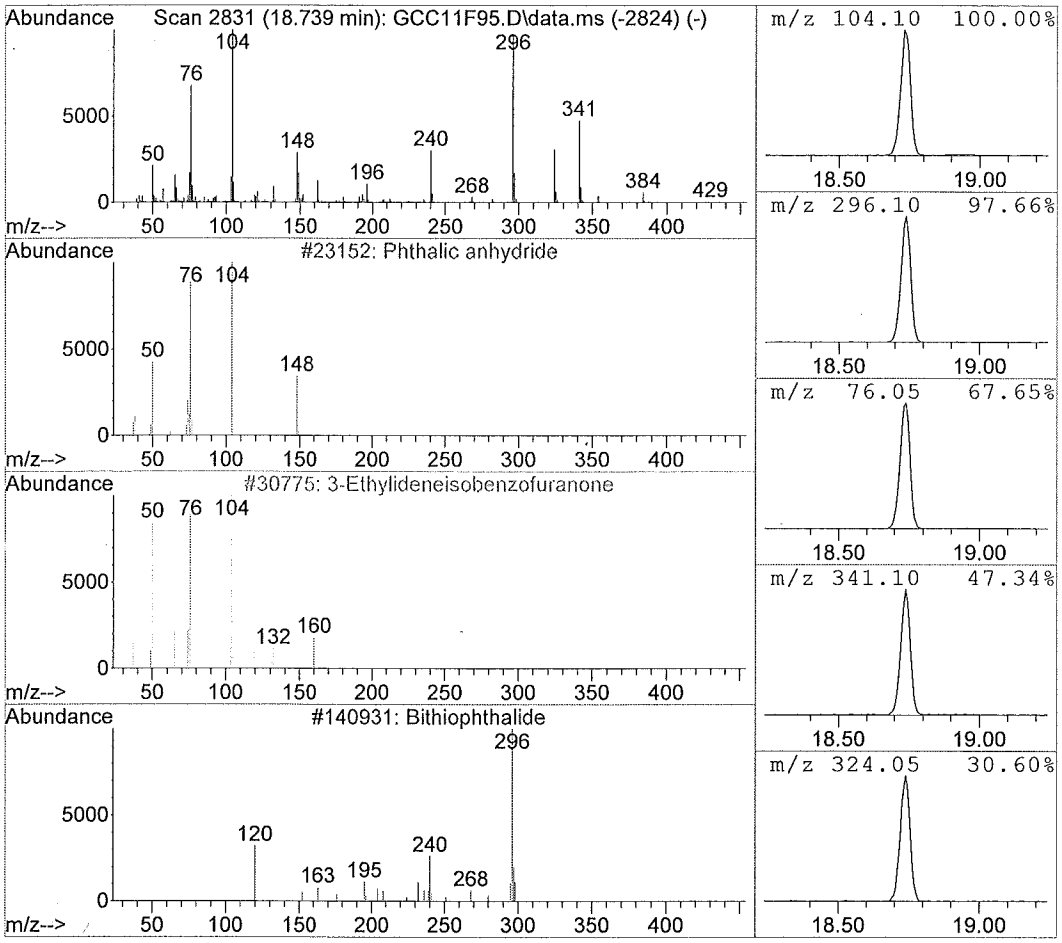


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.74	22.46 ug/ml	2630461	Perylene-d12	2342640

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23152	000085-44-9	27.00
2	3-Ethylideneisobenzofuranone	30775	004767-63-9	22.00
3	Bithiophthalide	140931	032819-84-4	12.00
4	Ninhydrin	44594	000485-47-2	12.00
5	Indan-1,2,3-trione	31444	000938-24-9	12.00

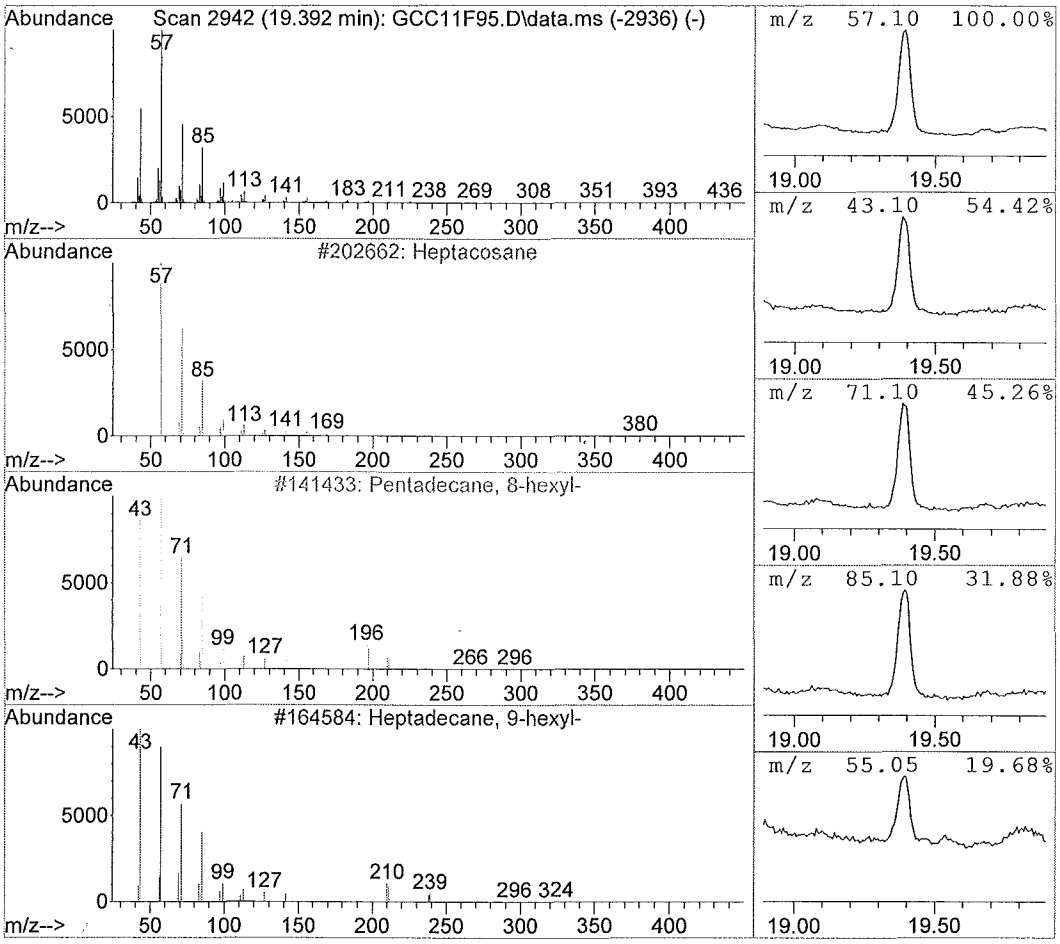


Data File : C:\msdchem\1\data\F9...6)\24JUN15\GCC11F95.D Vial: 10
Acq On : 06/24/2015 12:26 Operator: SY
Sample : 1515725017 F9M95 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.39	15.98 ug/ml	1871354	Perylene-d12	2342640

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane SA	202662	000593-49-7	97.00
2	Pentadecane, 8-hexyl-	141433	013475-75-7	91.00
3	Heptadecane, 9-hexyl-	164584	055124-79-3	91.00
4	Heneicosane, 11-pentyl-	194505	014739-72-1	91.00
5	Eicosane, 10-methyl-	141431	054833-23-7	91.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M96

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725018

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DEM02F18

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/23/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	210	U
108-95-2	Phenol	210	U
111-44-4	Bis(2-chloroethyl)ether	210	U
95-57-8	2-Chlorophenol	210	U
95-48-7	2-Methylphenol	210	U
108-60-1	2,2'-Oxybis(1-chloropropane)	210	U
98-86-2	Acetophenone	210	U
106-44-5	4-Methylphenol	210	U
621-64-7	N-Nitroso-di-n-propylamine	210	U
67-72-1	Hexachloroethane	210	U
98-95-3	Nitrobenzene	210	U
78-59-1	Isophorone	210	U
88-75-5	2-Nitrophenol	210	U
105-67-9	2,4-Dimethylphenol	210	U
111-91-1	Bis(2-chloroethoxy)methane	210	U
120-83-2	2,4-Dichlorophenol	210	U
91-20-3	Naphthalene	210	U
106-47-8	4-Chloroaniline	210	U
87-68-3	Hexachlorobutadiene	210	U
105-60-2	Caprolactam	210	U
59-50-7	4-Chloro-3-methylphenol	210	U
91-57-6	2-Methylnaphthalene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U
92-52-4	1,1'-Biphenyl	210	U
91-58-7	2-Chloronaphthalene	210	U
88-74-4	2-Nitroaniline	410	U
131-11-3	Dimethylphthalate	210	U
606-20-2	2,6-Dinitrotoluene	210	U
208-96-8	Acenaphthylene	210	U
99-09-2	3-Nitroaniline	410	U
83-32-9	Acenaphthene	210	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M96

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725018

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DEM02F18

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/23/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	410	U
100-02-7	4-Nitrophenol	410	U
132-64-9	Dibenzofuran	210	U
121-14-2	2,4-Dinitrotoluene	210	U
84-66-2	Diethylphthalate	210	U
86-73-7	Fluorene	210	U
7005-72-3	4-Chlorophenyl-phenylether	210	U
100-01-6	4-Nitroaniline	410	U
534-52-1	4,6-Dinitro-2-methylphenol	410	U
86-30-6	N-Nitrosodiphenylamine[1]	210	U
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U
101-55-3	4-Bromophenyl-phenylether	210	U
118-74-1	Hexachlorobenzene	210	U
1912-24-9	Atrazine	210	U
87-86-5	Pentachlorophenol	410	U
85-01-8	Phenanthrene	210	U
120-12-7	Anthracene	210	U
86-74-8	Carbazole	210	U
84-74-2	Di-n-butylphthalate	210	U
206-44-0	Fluoranthene	210	U
129-00-0	Pyrene	210	U
85-68-7	Butylbenzylphthalate	210	U
91-94-1	3,3'-Dichlorobenzidine	210	U
56-55-3	Benzo(a)anthracene	210	U
218-01-9	Chrysene	210	U
117-81-7	Bis(2-ethylhexyl)phthalate	210	U
117-84-0	Di-n-octylphthalate	210	U
205-99-2	Benzo(b)fluoranthene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
50-32-8	Benzo(a)pyrene	210	U
193-39-5	Indeno(1,2,3-cd)pyrene	210	U
53-70-3	Dibenzo(a,h)anthracene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
58-90-2	2,3,4,6-Tetrachlorophenol	210	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M96

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725018
Sample wt/vol: 30.1 (g/mL) g Lab File ID: DEM02F18
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 20. Decanted: (Y/N) N Date Received: 06/05/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/23/2015
GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Pentanone, 4-hydroxy-	3.35	690	JB
02		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.57	14000	JB
03		Unknown TATP	4.12	340	J
04		Unknown Hexane, 2-bromo-	4.23	870	J
05		Unknown 1H-Pyrrole-2,5-dione	4.32	640	J
06		Unknown 2-Pentanone, 3-methyl-	4.63	1900	J
07		Unknown 2(3H)-Furanone, 5-butyldihydro-4-methyl-	5.04	190	J
08		Unknown Ethanone, 1-oxiranyl-	5.16	2100	J
09	1000336-31-4	Methyl 13-methyltetradecanoate	11.36	270	JN
10	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	12.30	340	JN
11	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	12.37	170	JN
12	112-39-0	Hexadecanoic acid, methyl ester	12.46	510	JN
13	57-10-3	n-Hexadecanoic acid	12.72	510	JN
14	55044-54-7	11-Hexadecenoic acid, 15-methyl-, methyl ester	12.77	150	JN
15	2345-29-1	8-Octadecenoic acid, methyl ester	13.72	210	JN
16	112-62-9	9-Octadecenoic acid (Z)-, methyl ester	13.76	170	JN
17	629-54-9	Hexadecanamide	14.19	210	JNB
18	301-02-0	9-Octadecenamide, (Z)-	15.12	2700	JNB
19		Unknown Phthalic anhydride	18.68	270	J
20	83-47-6	.gamma.-Sitosterol	22.47	650	JN
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	2200	J

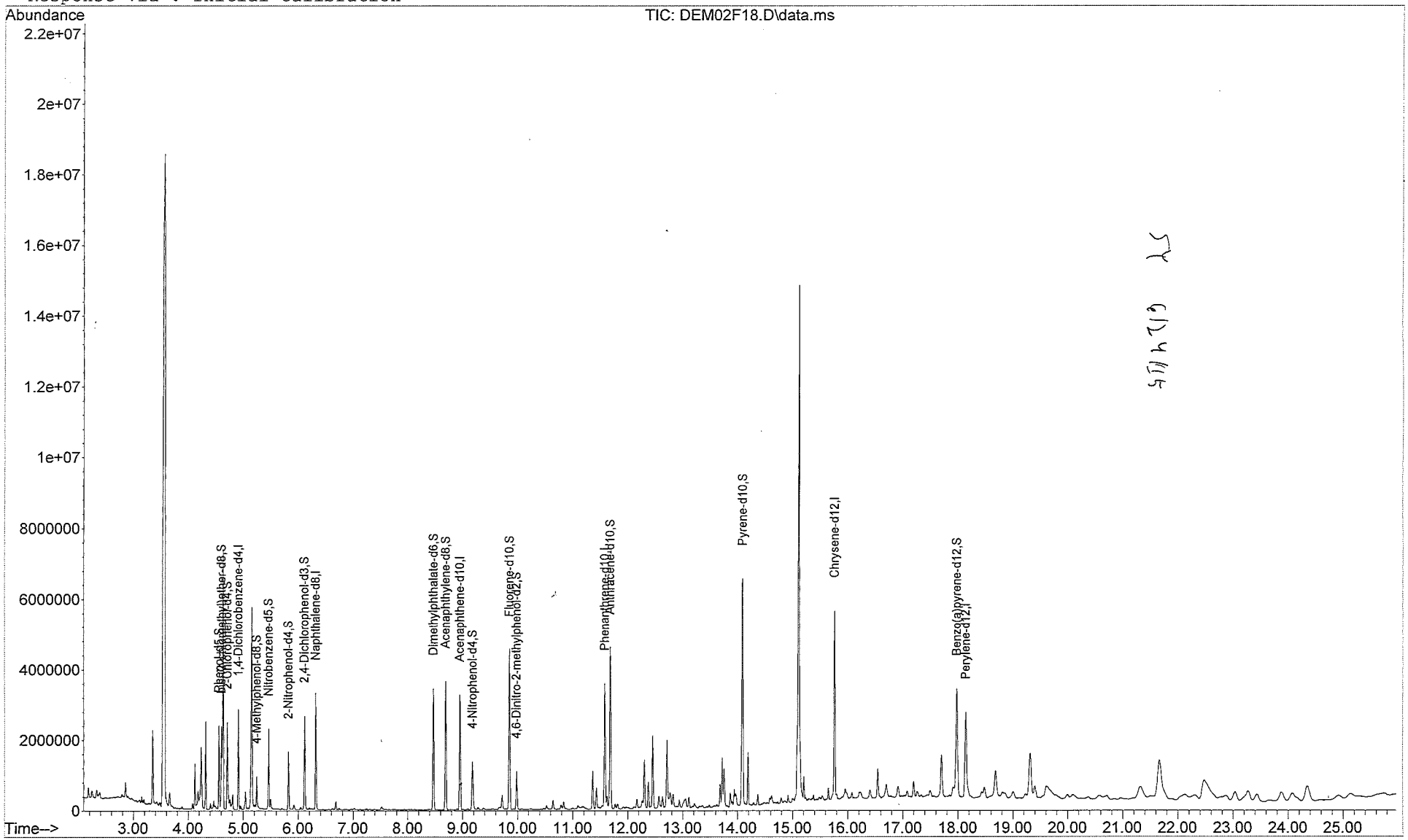
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\23JUN15\DEM02F18.D Vial: 2
Acq On : 06/23/2015 08:54 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 24 12:10:36 2015 Results File: DSOM01D6.RES

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 23 08:43:28 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\23JUN15\DEM02F18.D Vial: 2
Acq On : 06/23/2015 08:54 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 24 12:10:36 2015 Results File: DSOM01D6.RES

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 23 08:43:28 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.92	152	468267	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1623176	20.00 ug/ml
33) Acenaphthene-d10	8.95	164	1069137	20.00 ug/ml
59) Phenanthrene-d10	11.58	188	1977988	20.00 ug/ml
73) Chrysene-d12	15.76	240	2296885	20.00 ug/ml
81) Perylene-d12	18.14	264	1909245	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.56	99	714017	23.252ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	470112	20.454ug/mL
7) 2-Chlorophenol-d4	4.71	132	640088	22.160ug/ml
13) 4-Methylphenol-d8	5.25	113	192785	8.451ug/mL
17) Nitrobenzene-d5	5.46	128	307074	22.979ug/ml
21) 2-Nitrophenol-d4	5.83	143	351953	23.113ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	629957	24.083ug/mL
28) 4-Chloroaniline-d4	6.40	131	798	0.030ug/mL
42) Dimethylphthalate-d6	8.47	166	1957503	29.367ug/mL
45) Acenaphthylene-d8	8.69	160	2196676	25.073ug/mL
50) 4-Nitrophenol-d4	9.18	143	363847	29.244ug/mL
57) Fluorene-d10	9.85	176	1740617	29.415ug/mL
61) 4,6-Dinitro-2-methylphenol	9.98	200	231514	18.166ug/mL
69) Anthracene-d10	11.68	188	2806932	27.259ug/mL
75) Pyrene-d10	14.09	212	3002088	31.910ug/mL
86) Benzo(a)pyrene-d12	17.98	264	2408332	27.276ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00007

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\23JUN15\DEM02F18.D Vial: 2
Acq On : 06/23/2015 08:54 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 24 12:10:36 2015 Results File: DSOM01D6.RES

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 23 08:43:28 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) Acenaphthylene	0.00	152		Not Detected	
46) 3-Nitroaniline	0.00	138		Not Detected	
47) Acenaphthene	0.00	153		Not Detected	
48) 2,4-Dinitrophenol	0.00	184		Not Detected	
49) 4-Nitrophenol	0.00	109		Not Detected	
51) Dibenzofuran	0.00	168		Not Detected	
52) 2,4-Dinitrotoluene	0.00	165		Not Detected	
53) 2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54) Diethylphthalate	0.00	149		Not Detected	
55) 4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56) Fluorene	0.00	166		Not Detected	
58) 4-Nitroaniline	0.00	138		Not Detected	
60) 4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62) N-Nitrosodiphenylamine	0.00	169		Not Detected	
63) 4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64) Hexachlorobenzene	0.00	284		Not Detected	
65) Atrazine	0.00	200		Not Detected	
66) Pentachlorophenol	0.00	266		Not Detected	
67) Phenanthrene	0.00	178		Not Detected	
68) Anthracene	0.00	178		Not Detected	
70) Carbazole	0.00	167		Not Detected	
71) Di-n-butylphthalate	0.00	149		Not Detected	
72) Fluoranthene	0.00	202		Not Detected	
74) Pyrene	0.00	202		Not Detected	
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	0.00	228		Not Detected	
79) Chrysene	0.00	228		Not Detected	
80) Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	0.00	252		Not Detected	
84) Benzo(k)fluoranthene	0.00	252		Not Detected	
85) Benzo(a)pyrene	0.00	252		Not Detected	
87) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89) Benzo(g,h,i)perylene	0.00	276		Not Detected	

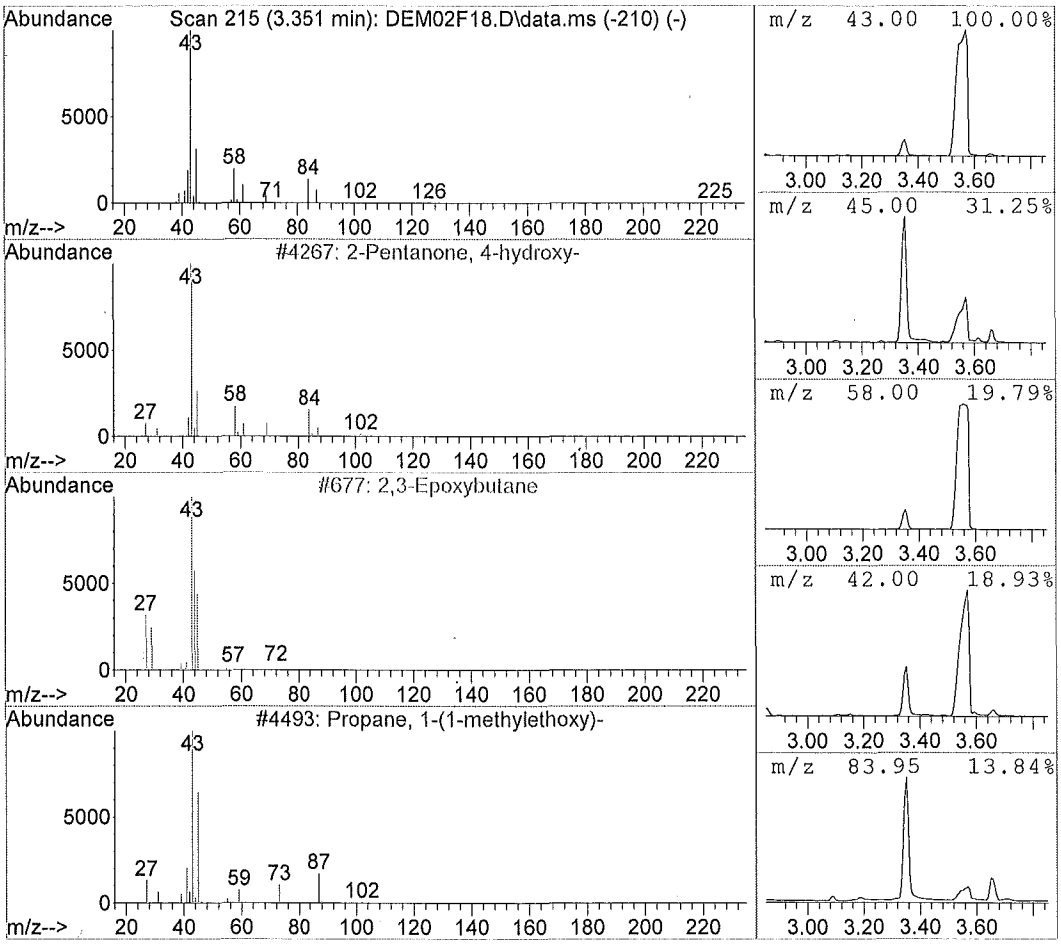
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Data File : C:\msdchem\1\data\F9...6)\23JUN15\DEM02F18.D Vial: 2
Acq On : 06/23/2015 08:54 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.35	16.65 ug/ml	2411856	1,4-Dichlorobenzene-d4	2897519

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	83.00
2	2,3-Epoxybutane	677	003266-23-7	12.00
3	Propane, 1-(1-methylethoxy)-	4493	000627-08-7	9.00
4	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	9.00
5	Nitric acid, nonyl ester	52650	020633-13-0	9.00

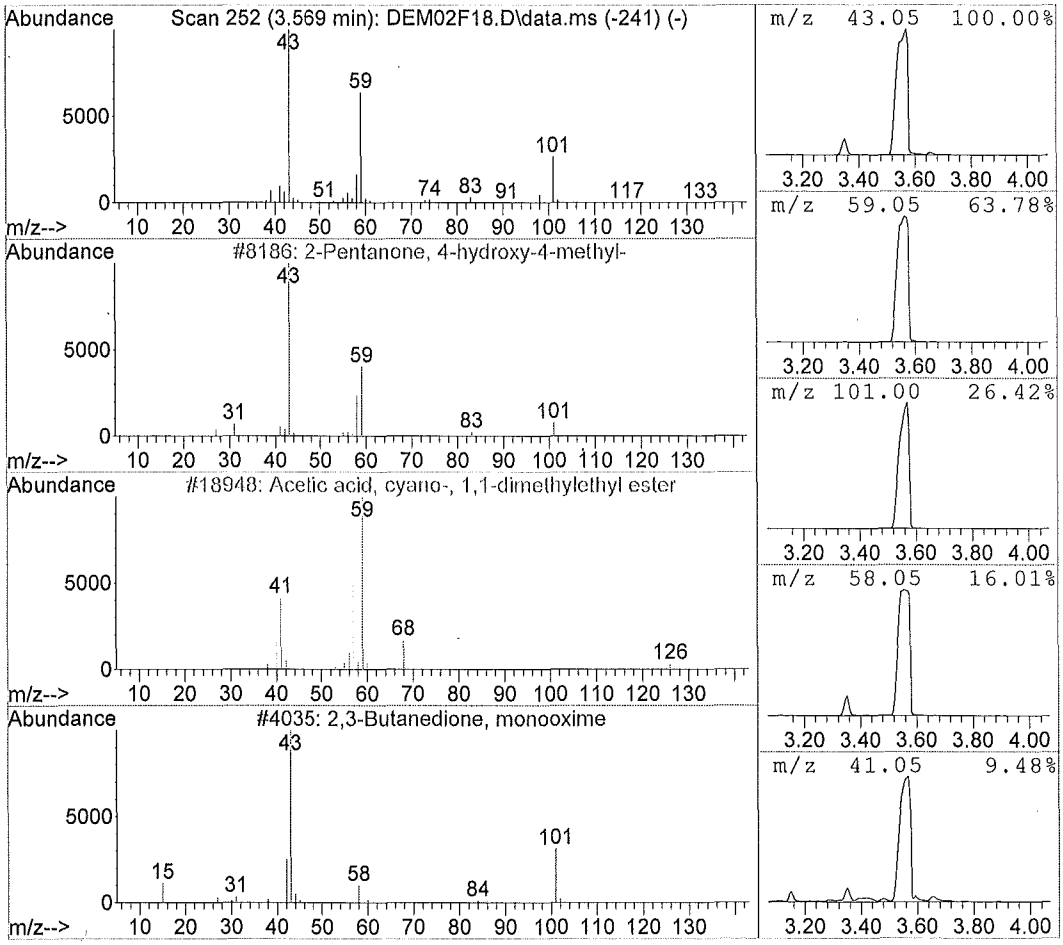


Data File : C:\msdchem\1\data\F9...6)\23JUN15\DEM02F18.D Vial: 2
Acq On : 06/23/2015 08:54 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.57	326.33 ug/ml	47276666	1,4-Dichlorobenzene-d4	2897519

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	56.00
2	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
3	2,3-Butanedione, monooxime	4035	000057-71-6	25.00
4	4-Hydroxy-3-hexanone	8102	004984-85-4	23.00
5	5-Hexen-2-one	3159	000109-49-9	9.00

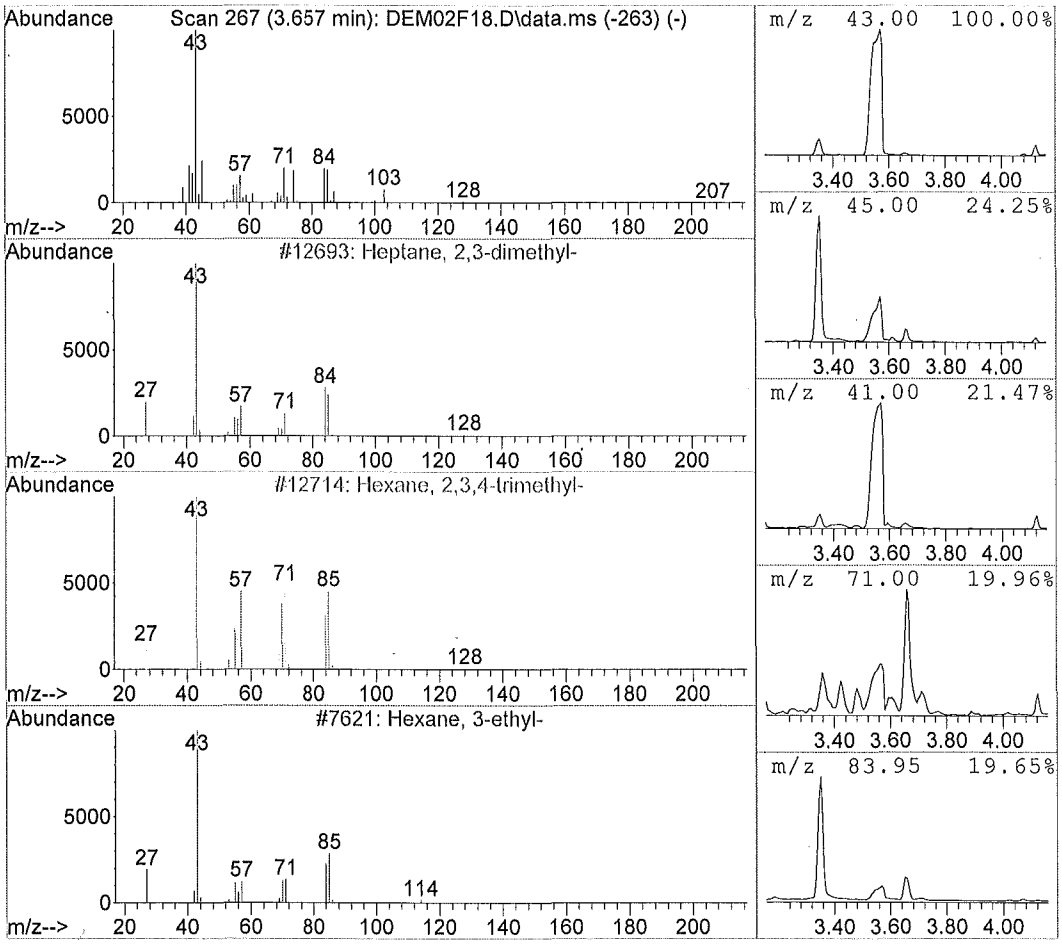


Data File : C:\msdchem\1\data\F9...6)\23JUN15\DEM02F18.D Vial: 2
Acq On : 06/23/2015 08:54 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.66	3.49 ug/ml	505217	1,4-Dichlorobenzene-d4	2897519

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl- BA	12693	003074-71-3	50.00
2	Hexane, 2,3,4-trimethyl-	12714	000921-47-1	38.00
3	Hexane, 3-ethyl-	7621	000619-99-8	37.00
4	(R)-(-)-Methyl 3-hydroxybutyrate	8707	003976-69-0	35.00
5	Butanoic acid, 3-hydroxy-, methyl e	8721	001487-49-6	32.00



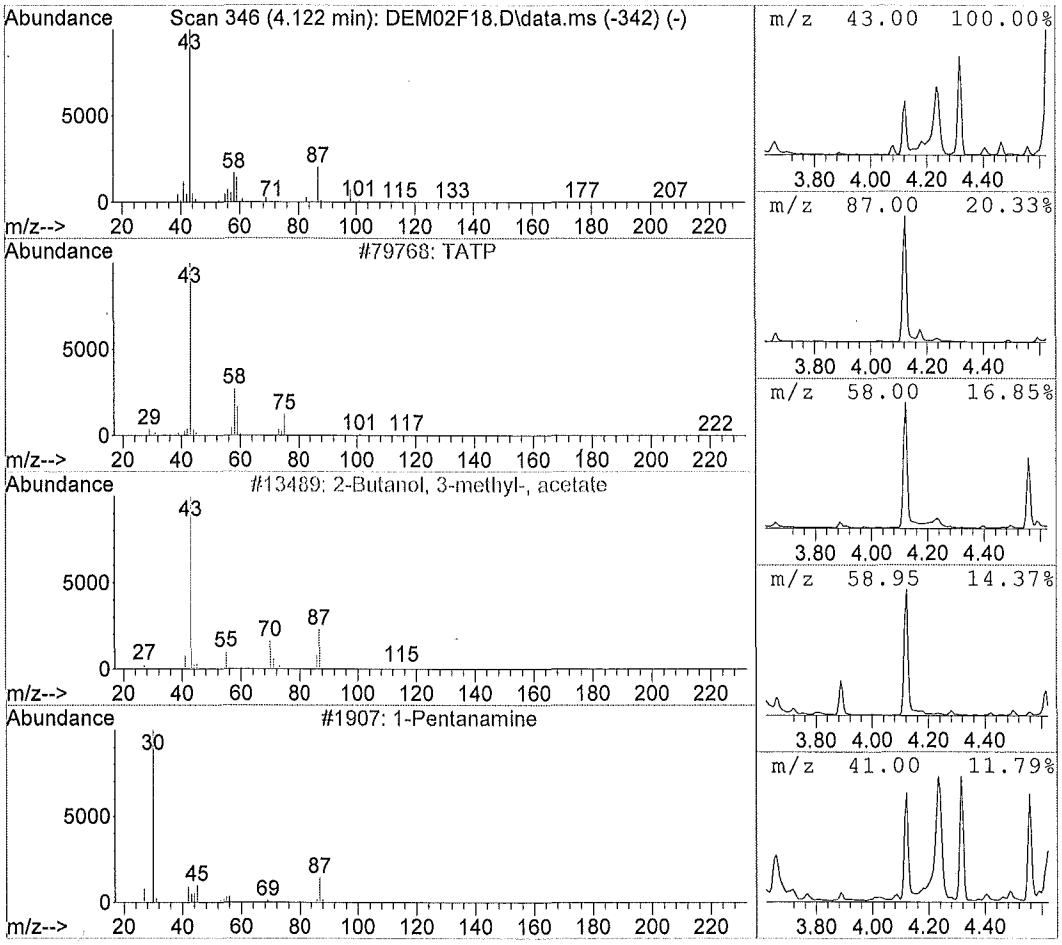
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\23JUN15\DEM02F18.D Vial: 2
Acq On : 06/23/2015 08:54 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.12	8.12 ug/ml	1176024	1,4-Dichlorobenzene-d4	2897519

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	TATP	79768	017088-37-8	38.00
2	2-Butanol, 3-methyl-, acetate	13489	005343-96-4	17.00
3	1-Pentanamine	1907	000110-58-7	9.00
4	Formamide, N-butyl-	4070	000871-71-6	9.00
5	Propane, 1-(1-methylethoxy)-	4493	000627-08-7	9.00

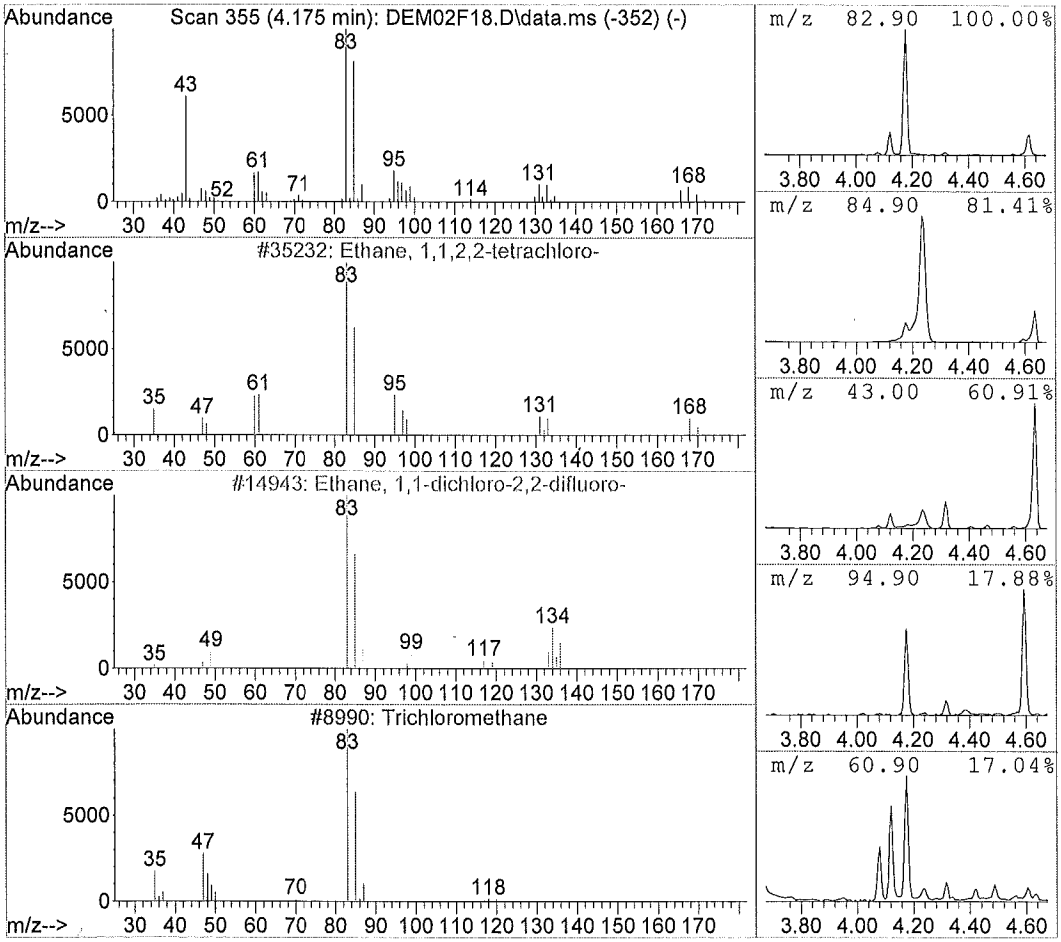


Data File : C:\msdchem\1\data\F9...6)\23JUN15\DEM02F18.D Vial: 2
Acq On : 06/23/2015 08:54 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.17	4.66 ug/ml	675673	1,4-Dichlorobenzene-d4	2897519

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	35232	000079-34-5	96.00
2	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	64.00
3	Trichloromethane	8990	000067-66-3	59.00
4	Ethane, 1,2,2-trichloro-1,1-difluor	36913	000354-21-2	58.00
5	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	56.00

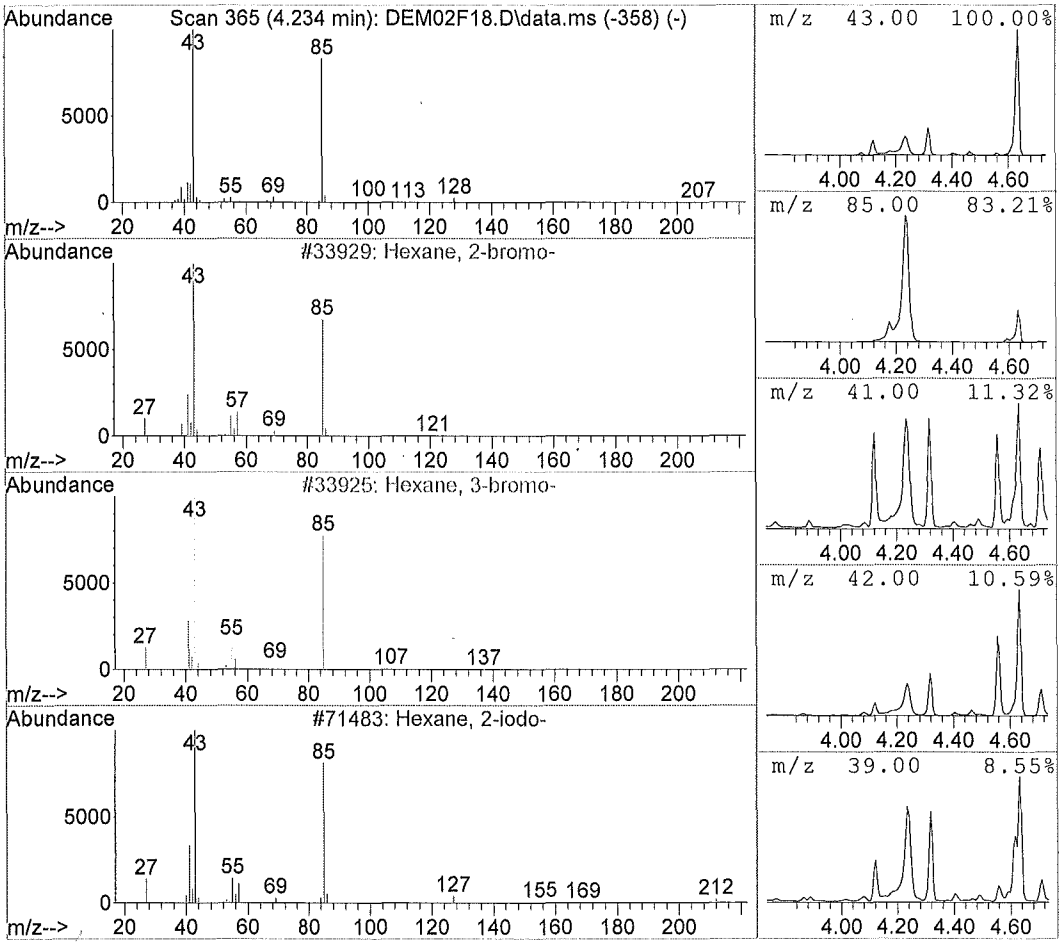


Data File : C:\msdchem\1\data\F9...6)\23JUN15\DEM02F18.D Vial: 2
Acq On : 06/23/2015 08:54 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.23	20.89 ug/ml	3026372	1,4-Dichlorobenzene-d4	2897519

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2-bromo-	33929	003377-86-4	56.00
2	Hexane, 3-bromo-	33925	003377-87-5	56.00
3	Hexane, 2-iodo-	71483	018589-27-0	56.00
4	Hexane, 1,1'-oxybis-	50332	000112-58-3	40.00
5	4-Methoxy-3-buten-2-one	3689	004652-27-1	38.00

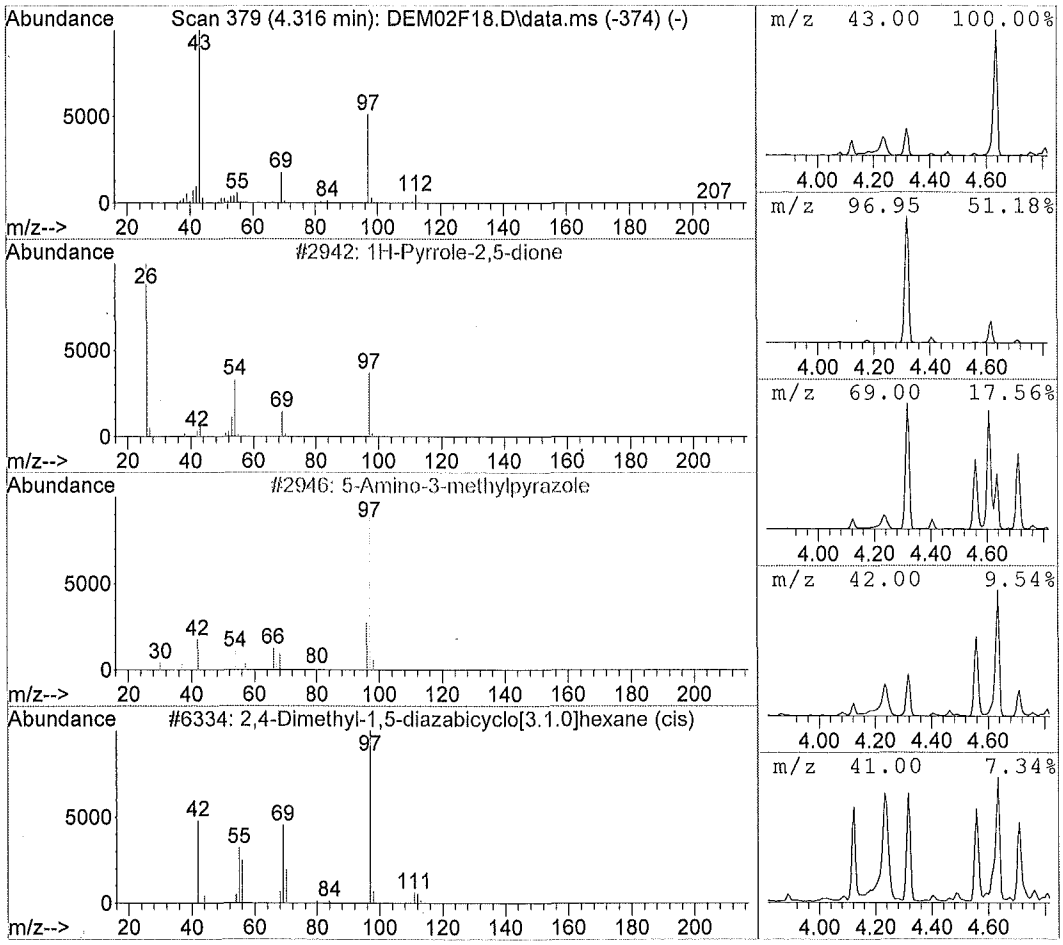


Data File : C:\msdchem\1\data\F9...6)\23JUN15\DEM02F18.D Vial: 2
Acq On : 06/23/2015 08:54 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.32	15.44 ug/ml	2237213	1,4-Dichlorobenzene-d4	2897519

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	38.00
2	5-Amino-3-methylpyrazole	2946	031230-17-8	37.00
3	2,4-Dimethyl-1,5-diazabicyclo[3.1.0	6334	100463-01-2	28.00
4	1H-Pyrazol-4-amine, 3-methyl-	2952	1000338-28-2	23.00
5	5-Hexen-2-one	3152	000109-49-9	10.00

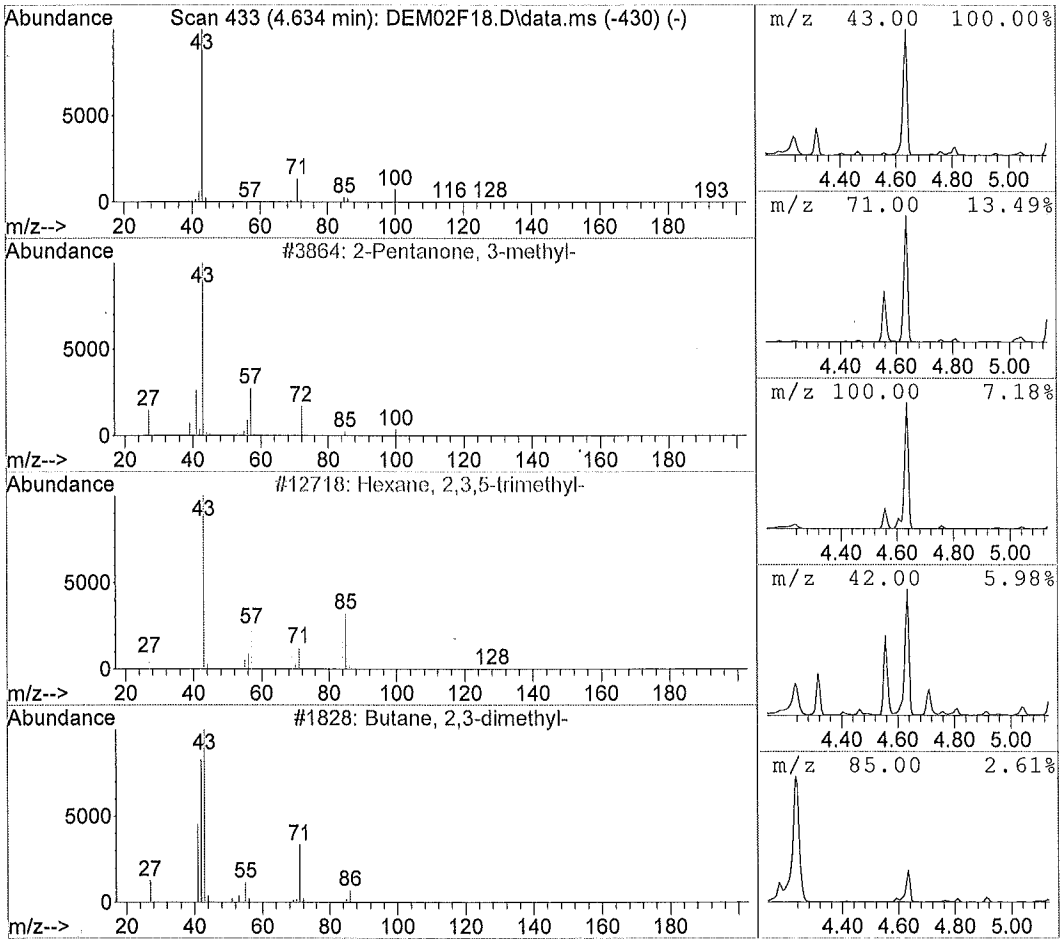


Data File : C:\msdchem\1\data\F9...6)\23JUN15\DEM02F18.D Vial: 2
Acq On : 06/23/2015 08:54 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.63	45.15 ug/ml	6541118	1,4-Dichlorobenzene-d4	2897519

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 3-methyl-	3864	000565-61-7	9.00
2	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	9.00
3	Butane, 2,3-dimethyl-	1828	000079-29-8	7.00
4	Heptane	3973	000142-82-5	7.00
5	Heptane, 2,4-dimethyl-	12695	002213-23-2	7.00

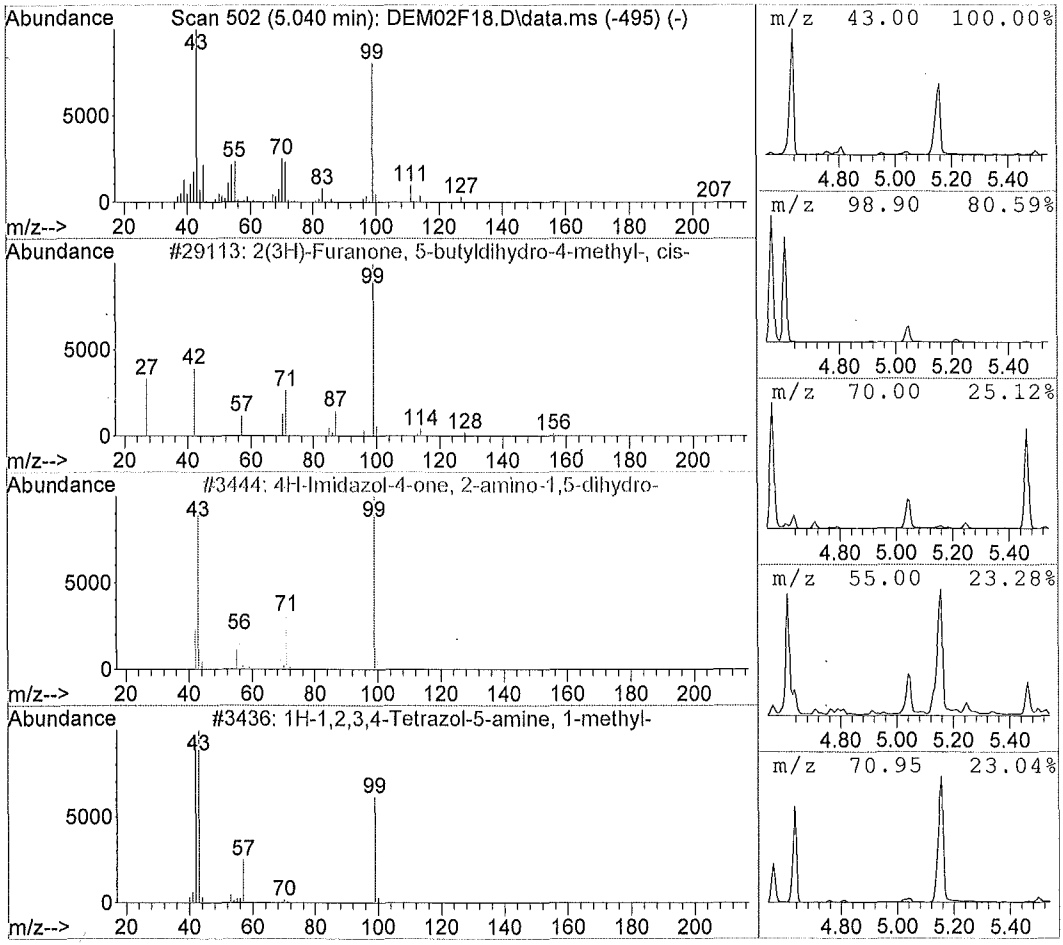


Data File : C:\msdchem\1\data\F9...6)\23JUN15\DEM02F18.D Vial: 2
Acq On : 06/23/2015 08:54 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.04	4.70 ug/ml	680863	1,4-Dichlorobenzene-d4	2897519

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2(3H)-Furanone, 5-butyldihydro-4-me	29113	055013-32-6	47.00
2	4H-Imidazol-4-one, 2-amino-1,5-dihy	3444	000503-86-6	46.00
3	1H-1,2,3,4-Tetrazol-5-amine, 1-meth	3436	1000338-04-0	38.00
4	3-Penten-2-one, 4-methoxy-	7221	002845-83-2	38.00
5	2H-Pyran-2-one, 6-hexyltetrahydro-	48500	000710-04-3	38.00

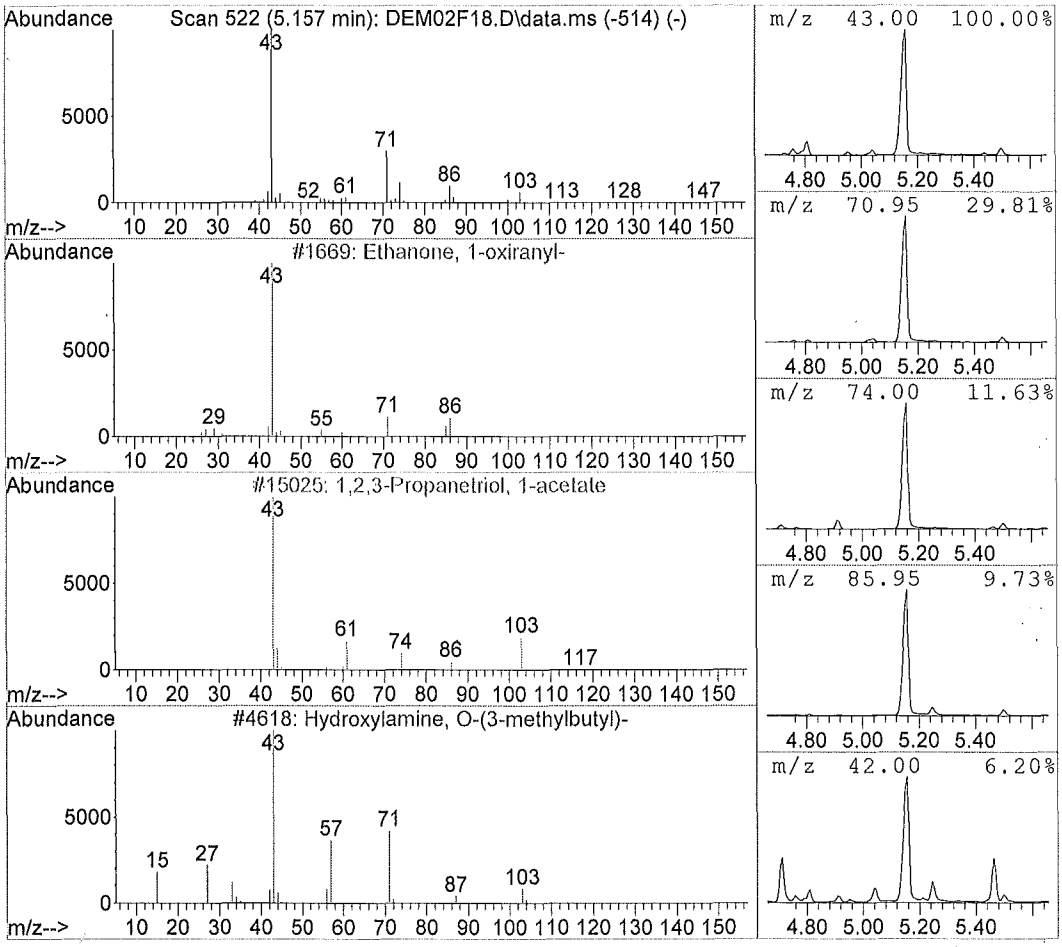


Data File : C:\msdchem\1\data\F9...6)\23JUN15\DEM02F18.D Vial: 2
Acq On : 06/23/2015 08:54 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.16	51.32 ug/ml	7435171	1,4-Dichlorobenzene-d4	2897519

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanone, 1-oxiranyl-	1669	004401-11-0	35.00
2	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	25.00
3	Hydroxylamine, O-(3-methylbutyl)-	4618	019411-65-5	23.00
4	2-Propanone, 1-hydroxy-	817	000116-09-6	22.00
5	Ethanol, 2-(pentyloxy)-, acetate	41640	005312-09-4	17.00

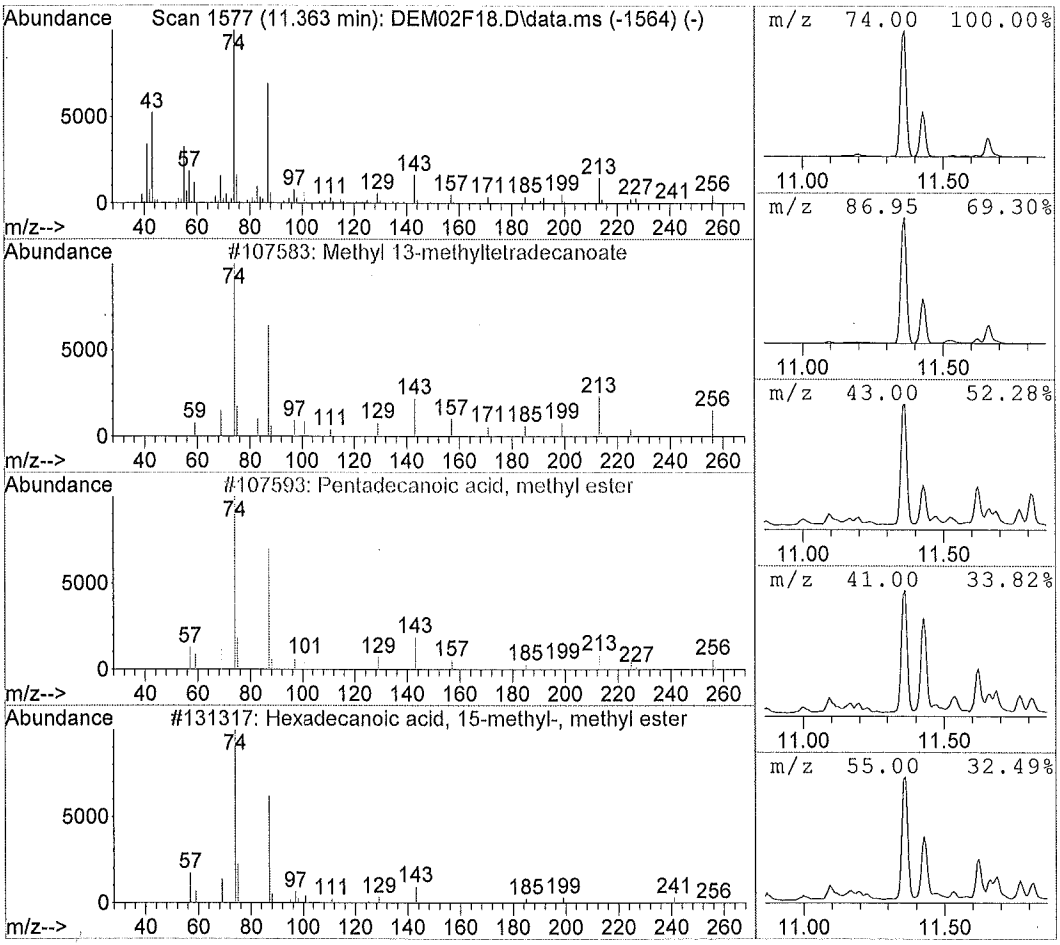


Data File : C:\msdchem\1\data\F9...6)\23JUN15\DEM02F18.D Vial: 2
Acq On : 06/23/2015 08:54 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.36	6.51 ug/ml	1534253	Phenanthrene-d10	4716993

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methyl 13-methyltetradecanoate	107583	1000336-31-4	97.00
2	Pentadecanoic acid, methyl ester	107593	007132-64-1	94.00
3	Hexadecanoic acid, 15-methyl-, meth	131317	006929-04-0	83.00
4	Hexadecanoic acid, methyl ester	119408	000112-39-0	83.00
5	Tridecanoic acid, methyl ester	84483	001731-88-0	81.00

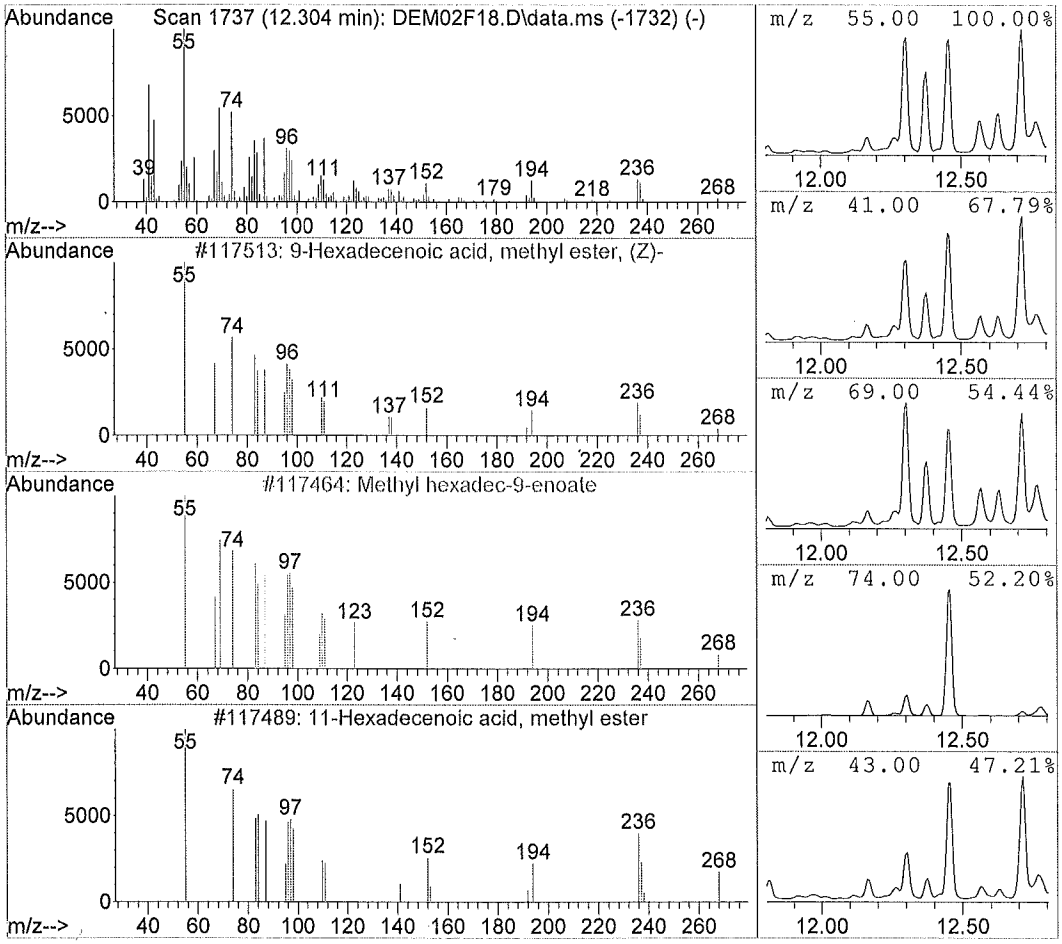


Data File : C:\msdchem\1\data\F9...6)\23JUN15\DEM02F18.D Vial: 2
Acq On : 06/23/2015 08:54 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.30	8.17 ug/ml	1925788	Phenanthrene-d10	4716993

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Hexadecenoic acid, methyl ester,	117513	001120-25-8	99.00
2	Methyl hexadec-9-enoate	117464	010030-74-7	90.00
3	11-Hexadecenoic acid, methyl ester	117489	055000-42-5	83.00
4	Methyl 11-hexadecenoate	117465	1000336-35-5	83.00
5	Methyl myristoleate	94118	056219-06-8	83.00

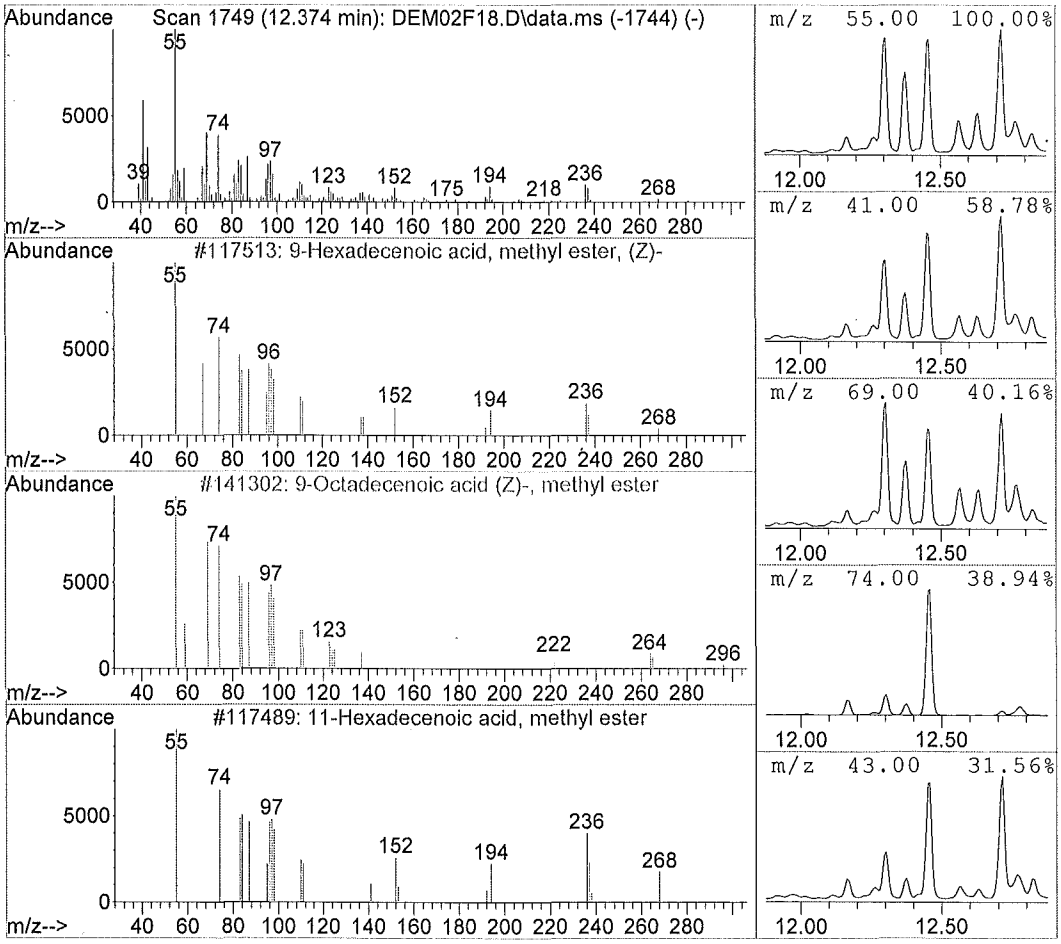


Data File : C:\msdchem\1\data\F9...6)\23JUN15\DEM02F18.D Vial: 2
Acq On : 06/23/2015 08:54 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.37	4.13 ug/ml	973432	Phenanthrene-d10	4716993

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Hexadecenoic acid, methyl ester,	117513	001120-25-8	98.00
2	9-Octadecenoic acid (Z)-, methyl es	141302	000112-62-9	81.00
3	11-Hexadecenoic acid, methyl ester	117489	055000-42-5	80.00
4	Cyclopropaneoctanoic acid, 2-hexyl-	129412	010152-61-1	74.00
5	Methyl hexadec-9-enoate	117464	010030-74-7	70.00

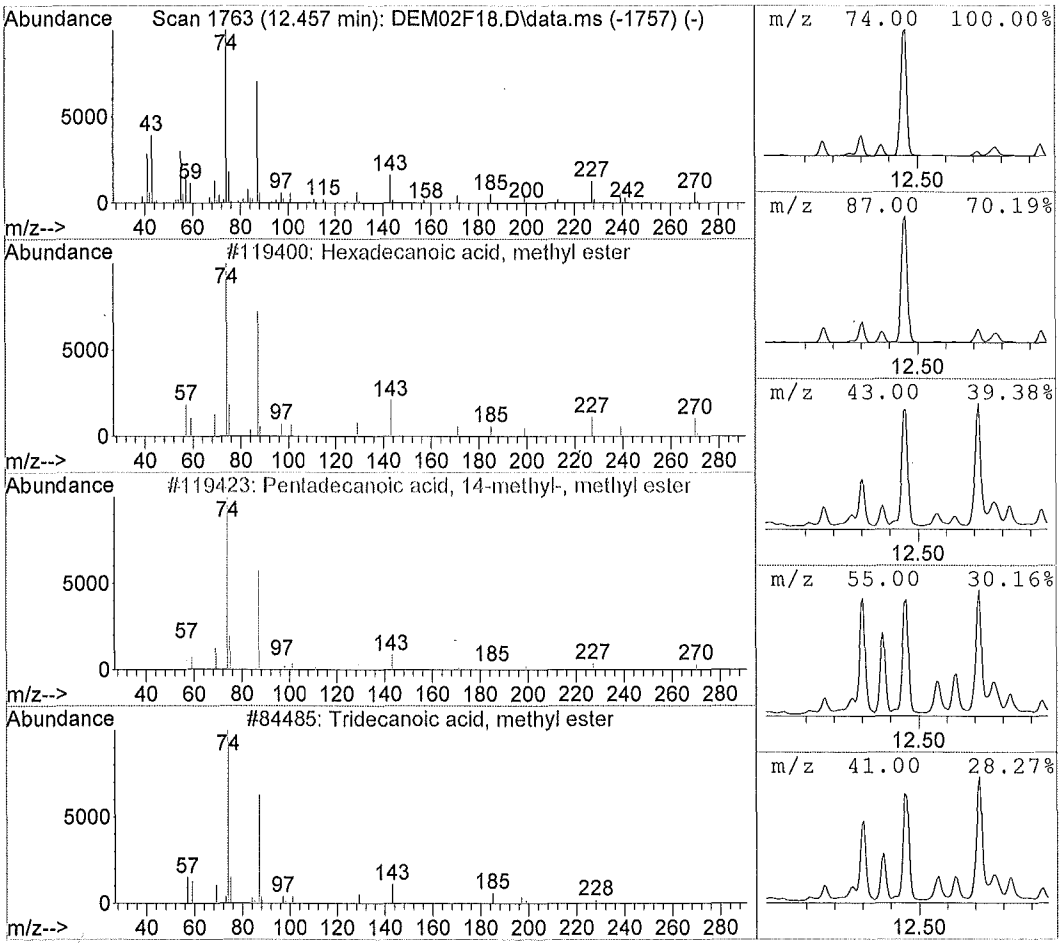


Data File : C:\msdchem\1\data\F9...6)\23JUN15\DEM02F18.D Vial: 2
Acq On : 06/23/2015 08:54 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.46	12.34 ug/ml	2911307	Phenanthrene-d10	4716993

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, methyl ester	119400	000112-39-0	98.00
2	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	96.00
3	Tridecanoic acid, methyl ester	84485	001731-88-0	93.00
4	Methyl tetradecanoate	95860	000124-10-7	91.00
5	Dodecanoic acid, 10-methyl-, methyl	84513	005129-65-7	83.00

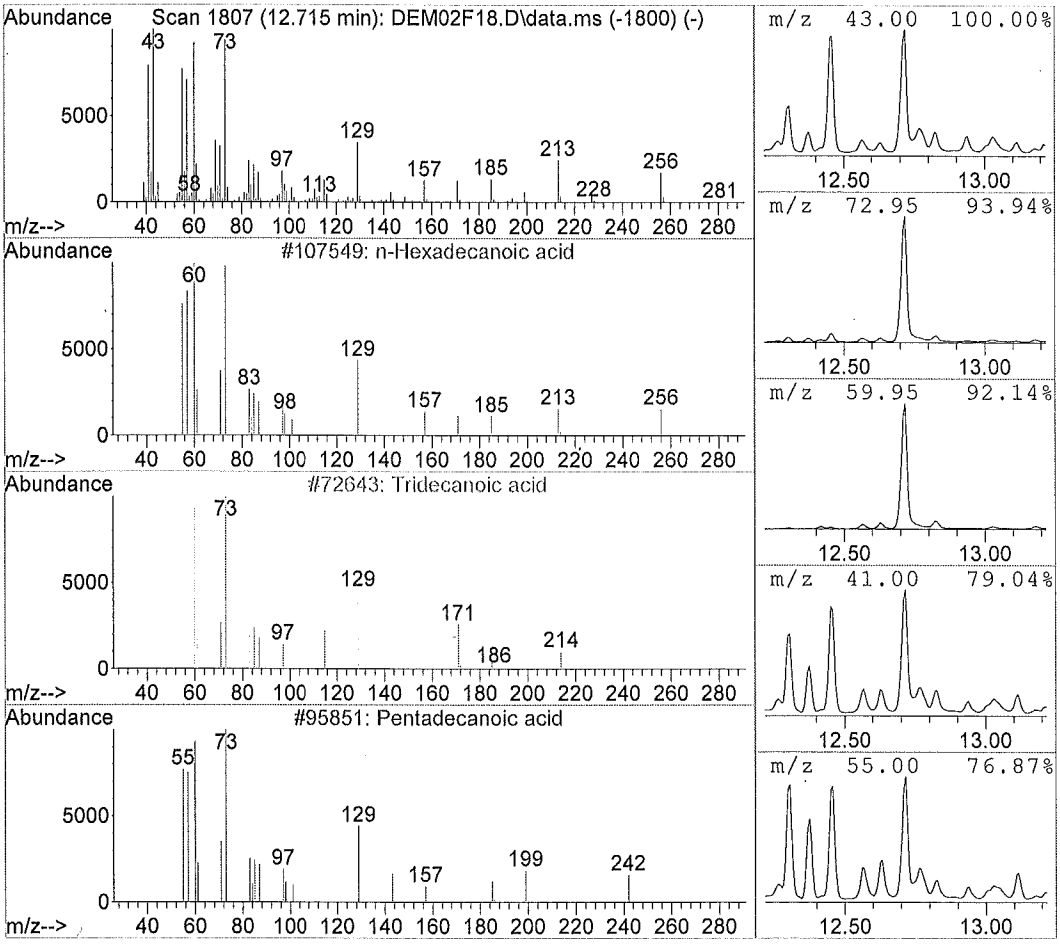


Data File : C:\msdchem\1\data\F9...6)\23JUN15\DEM02F18.D Vial: 2
Acq On : 06/23/2015 08:54 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.72	12.27 ug/ml	2894284	Phenanthrene-d10	4716993

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Tridecanoic acid	72643	000638-53-9	95.00
3	Pentadecanoic acid	95851	001002-84-2	81.00
4	Undecanoic acid	50051	000112-37-8	70.00
5	Tetradecanoic acid	84453	000544-63-8	64.00

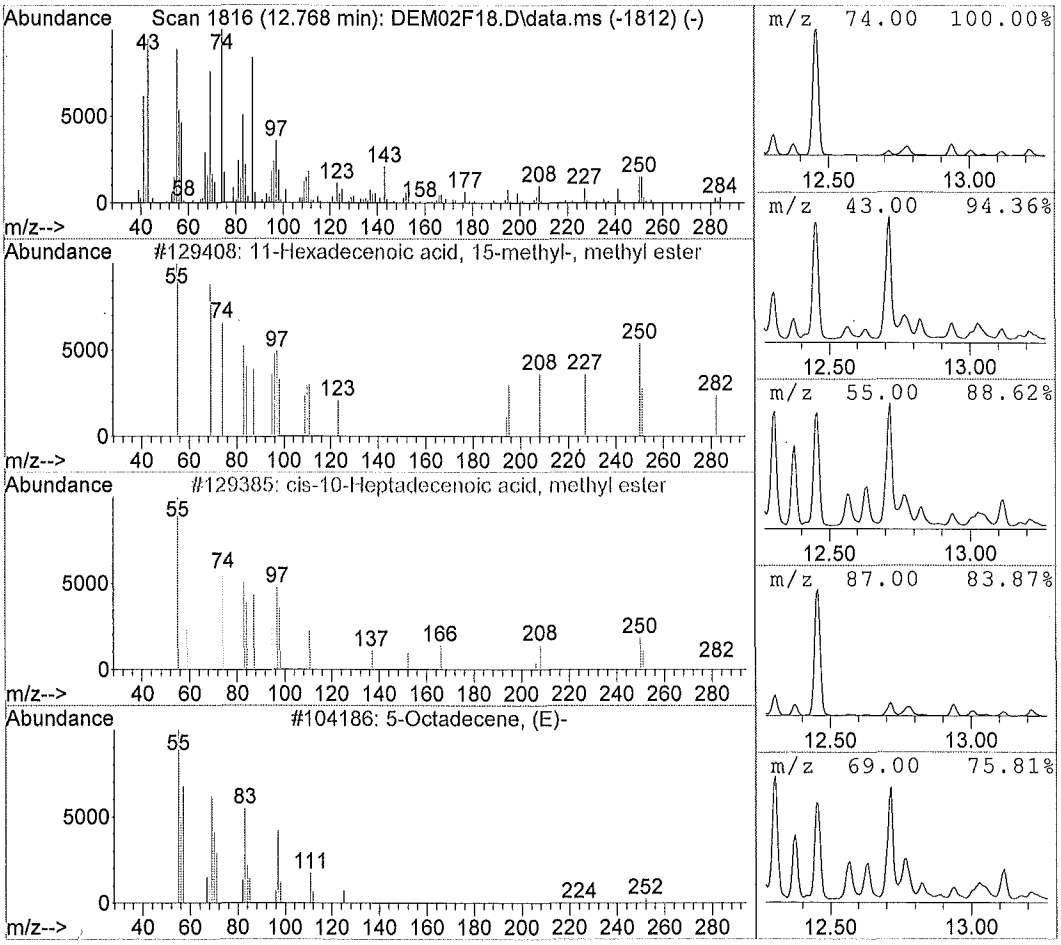


Data File : C:\msdchem\1\data\F9...6)\23JUN15\DEM02F18.D Vial: 2
Acq On : 06/23/2015 08:54 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.77	3.72 ug/ml	876634	Phenanthrene-d10	4716993

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	11-Hexadecenoic acid, 15-methyl-, m	129408	055044-54-7	90.00
2	cis-10-Heptadecenoic acid, methyl e	129385	1000333-62-1	55.00
3	5-Octadecene, (E)-	104186	007206-21-5	51.00
4	Heptadecanoic acid, methyl ester	131297	001731-92-6	49.00
5	Methyl 8-heptadecenoate	129346	1000336-36-4	47.00

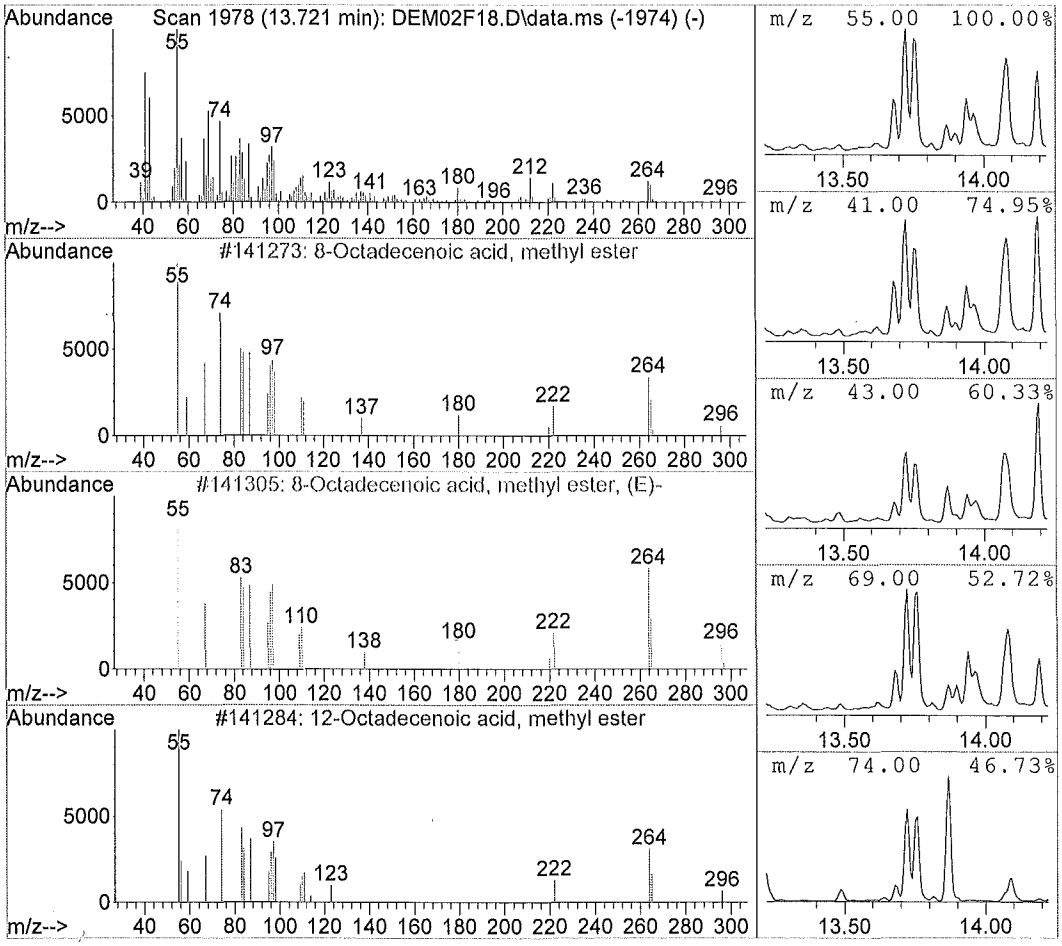


Data File : C:\msdchem\1\data\F9...6)\23JUN15\DEM02F18.D Vial: 2
Acq On : 06/23/2015 08:54 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.72	5.14 ug/ml	1738292	Chrysene-d12	6767091

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	8-Octadecenoic acid, methyl ester	141273	002345-29-1	99.00
2	8-Octadecenoic acid, methyl ester,	141305	026528-50-7	99.00
3	12-Octadecenoic acid, methyl ester	141284	056554-46-2	99.00
4	11-Octadecenoic acid, methyl ester	141290	052380-33-3	99.00
5	9-Octadecenoic acid (Z)-, methyl es	141302	000112-62-9	99.00

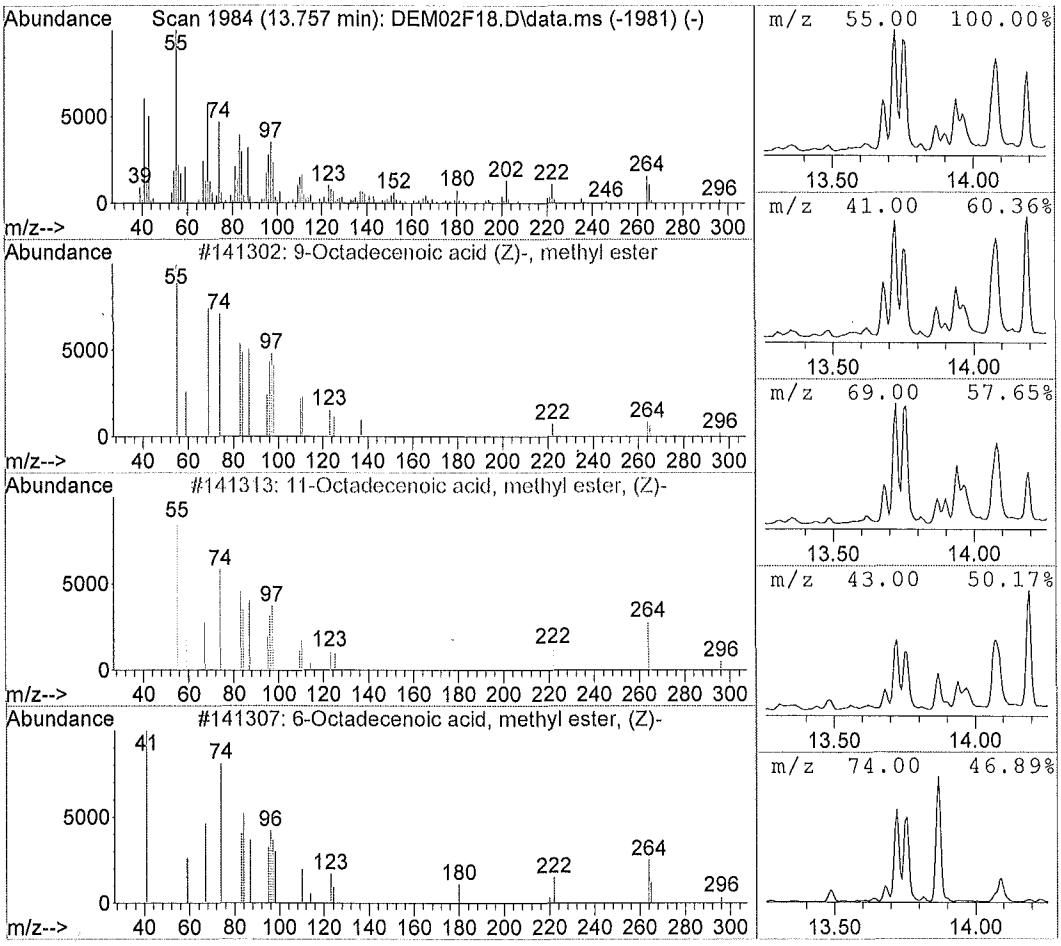


Data File : C:\msdchem\1\data\F9...6)\23JUN15\DEM02F18.D Vial: 2
Acq On : 06/23/2015 08:54 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.76	4.02 ug/ml	1360860	Chrysene-d12	6767091

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenoic acid (Z)-, methyl es	141302	000112-62-9	99.00
2	11-Octadecenoic acid, methyl ester,	141313	001937-63-9	99.00
3	6-Octadecenoic acid, methyl ester,	141307	002777-58-4	97.00
4	13-Octadecenoic acid, methyl ester	141292	056554-47-3	96.00
5	15-Octadecenoic acid, methyl ester	141283	004764-72-1	95.00

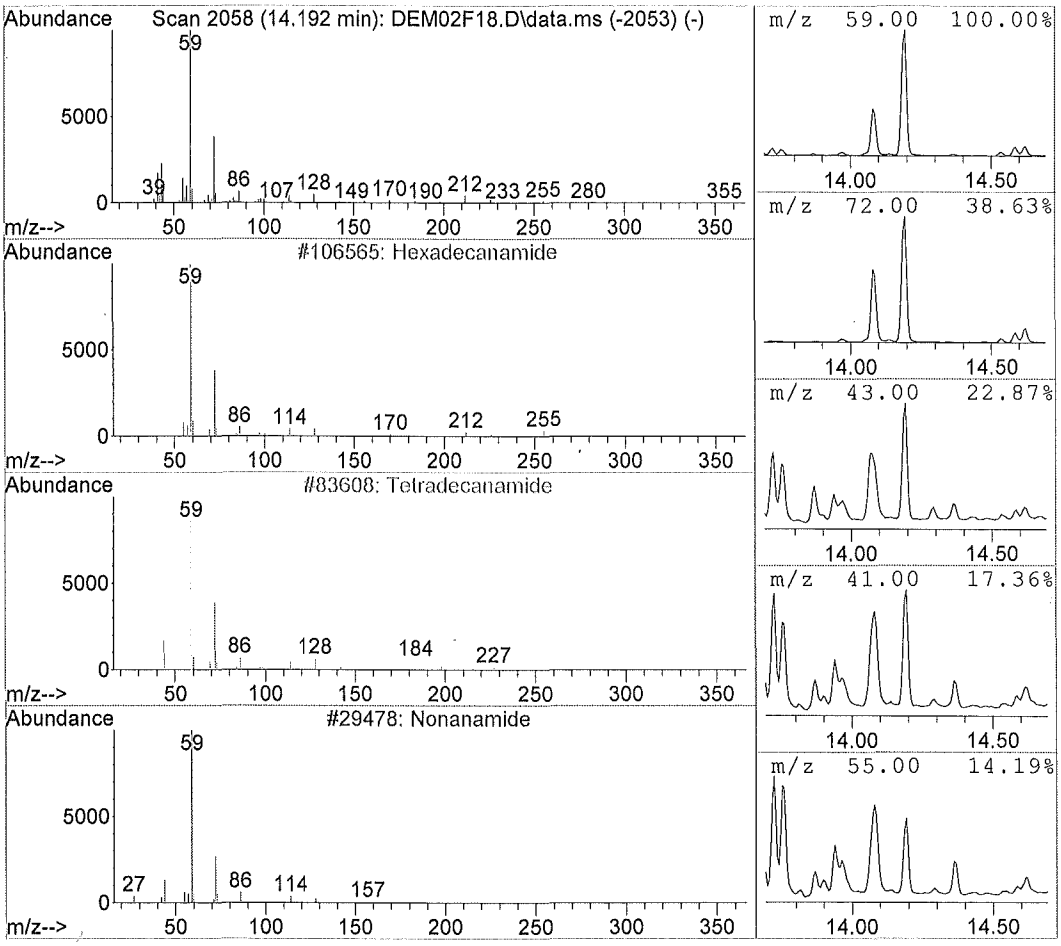


Data File : C:\msdchem\1\data\F9...6)\23JUN15\DEM02F18.D Vial: 2
Acq On : 06/23/2015 08:54 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.19	5.05 ug/ml	1707250	Chrysene-d12	6767091

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	91.00
2	Tetradecanamide	83608	000638-58-4	90.00
3	Nonanamide	29478	001120-07-6	78.00
4	Decanamide-	38977	002319-29-1	74.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00

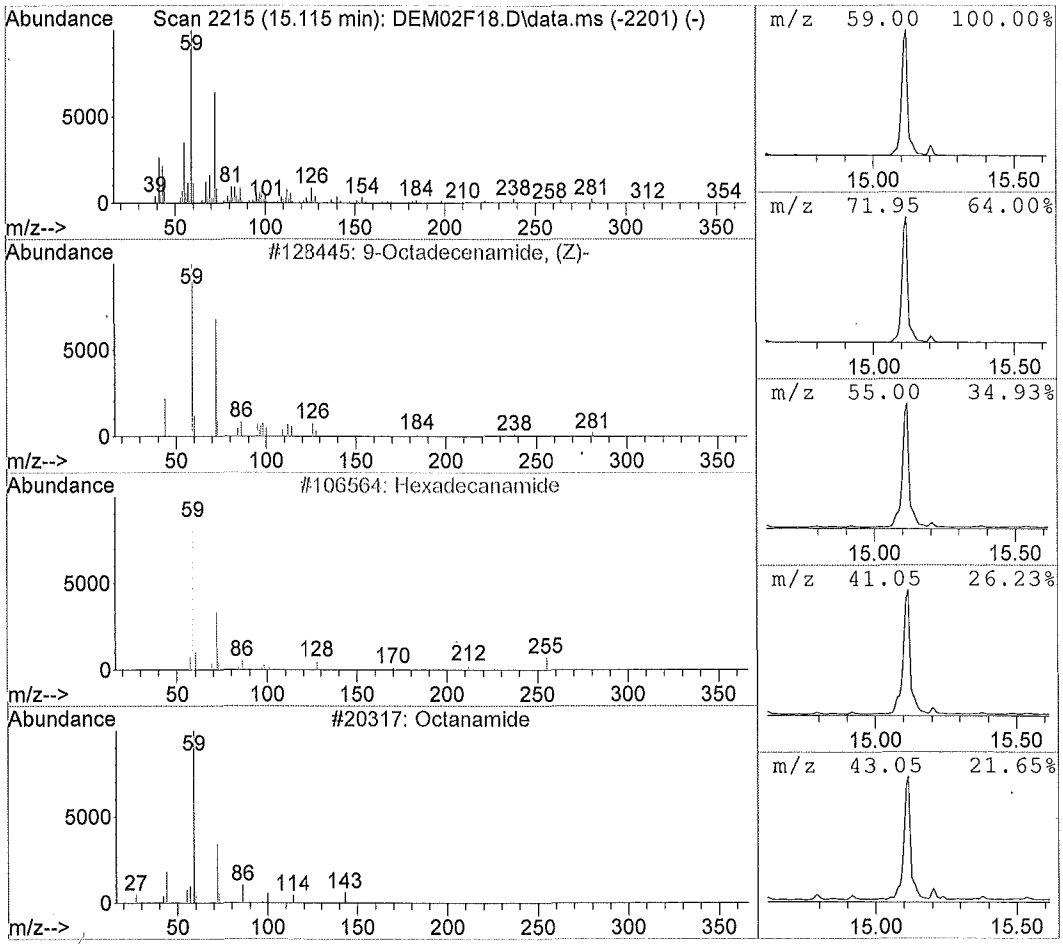


Data File : C:\msdchem\1\data\F9...6)\23JUN15\DEM02F18.D Vial: 2
Acq On : 06/23/2015 08:54 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.12	64.50 ug/ml	21824245	Chrysene-d12	6767091

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Hexadecanamide	106564	000629-54-9	72.00
3	Octanamide	20317	000629-01-6	59.00
4	Nonadecanamide	142051	058185-32-3	56.00
5	Tetradecanamide	83609	000638-58-4	56.00

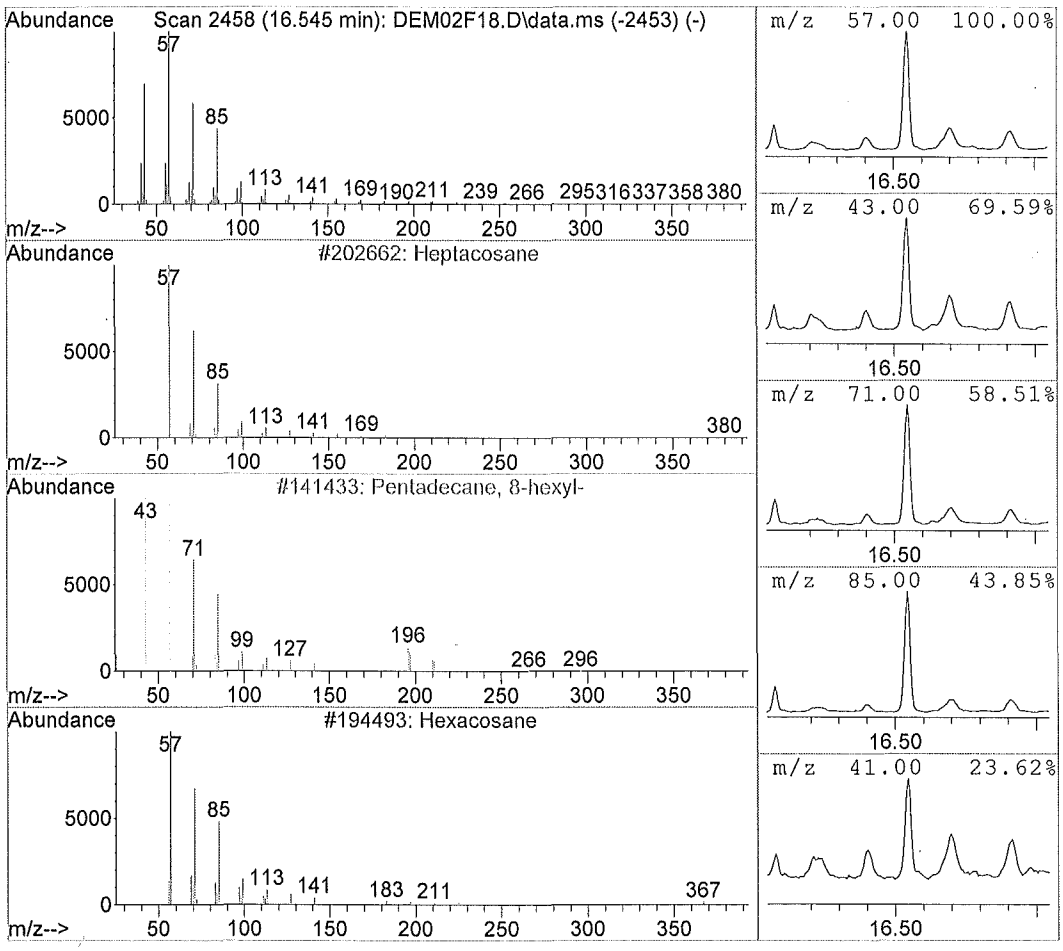


Data File : C:\msdchem\1\data\F9...6)\23JUN15\DEM02F18.D Vial: 2
Acq On : 06/23/2015 08:54 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.54	3.91 ug/ml	1322526	Chrysene-d12	6767091

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane SA	202662	000593-49-7	99.00
2	Pentadecane, 8-hexyl-	141433	013475-75-7	94.00
3	Hexacosane	194493	000630-01-3	94.00
4	Docosane, 11-butyl-	194500	013475-76-8	91.00
5	Eicosane, 10-methyl-	141431	054833-23-7	91.00



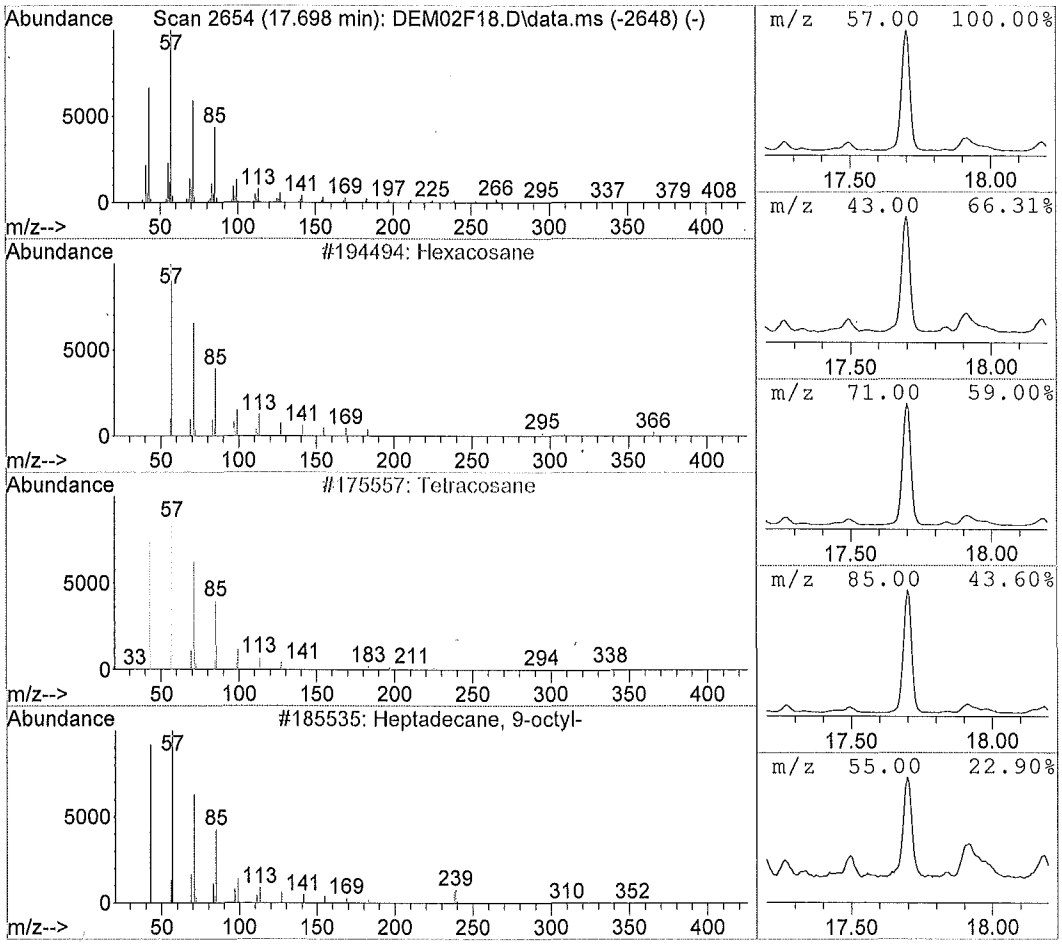
Data File : C:\msdchem\1\data\F9...6)\23JUN15\DEM02F18.D Vial: 2
Acq On : 06/23/2015 08:54 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.70	8.20 ug/ml	2395021	Perylene-d12	5844526

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexacosane	194494	000630-01-3	98.00
2	Tetracosane	175557	000646-31-1	97.00
3	Heptadecane, 9-octyl-	185535	007225-64-1	95.00
4	Tricosane	164578	000638-67-5	94.00
5	Pentadecane, 8-hexyl-	141433	013475-75-7	94.00

SA

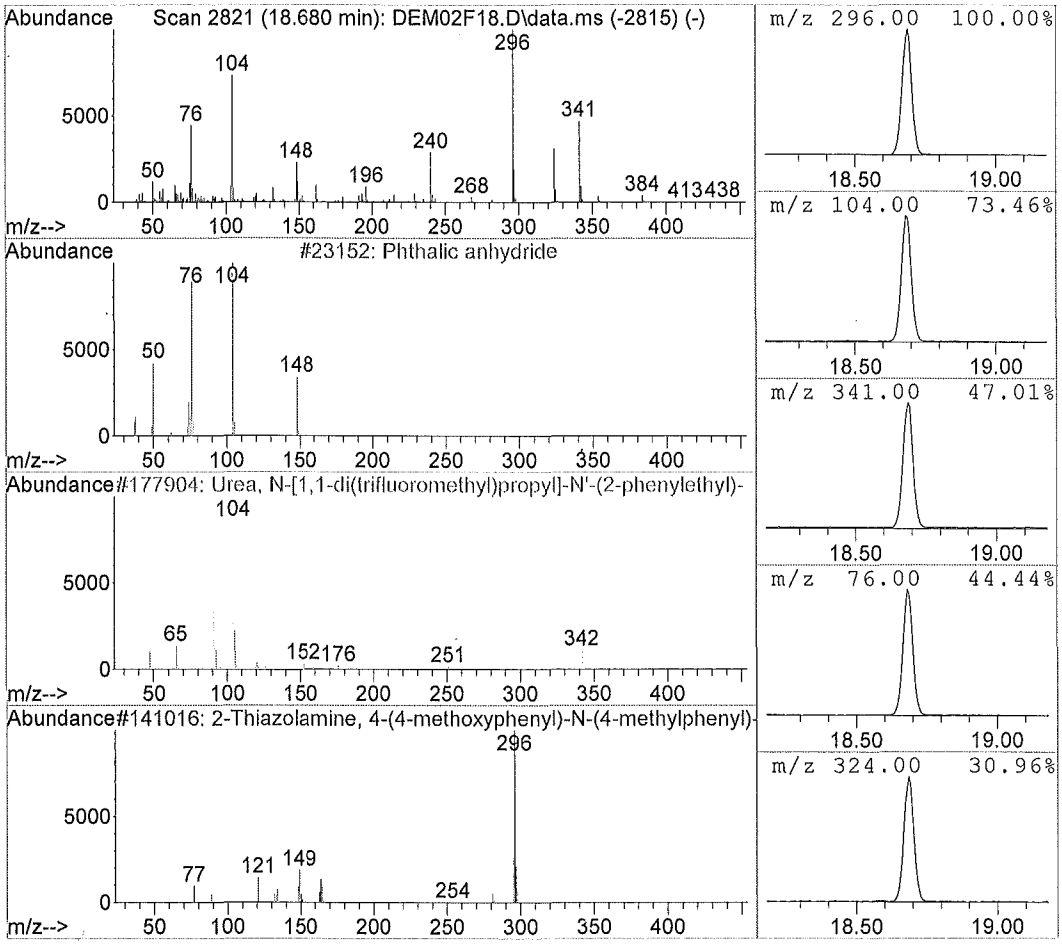


Data File : C:\msdchem\1\data\F9...6)\23JUN15\DEM02F18.D Vial: 2
Acq On : 06/23/2015 08:54 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.68	6.45 ug/ml	1884462	Perylene-d12	5844526

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23152	000085-44-9	16.00
2	Urea, N-[1,1-di(trifluoromethyl)pro	177904	312932-43-7	15.00
3	2-Thiazolamine, 4-(4-methoxyphenyl)	141016	1000319-57-2	14.00
4	Benzeneethanamine, .beta.-hydroxy-.	213436	1000197-20-9	14.00
5	2-Propenamide, N-[4,5-dihydro-5-oxo	141600	1000350-88-9	14.00



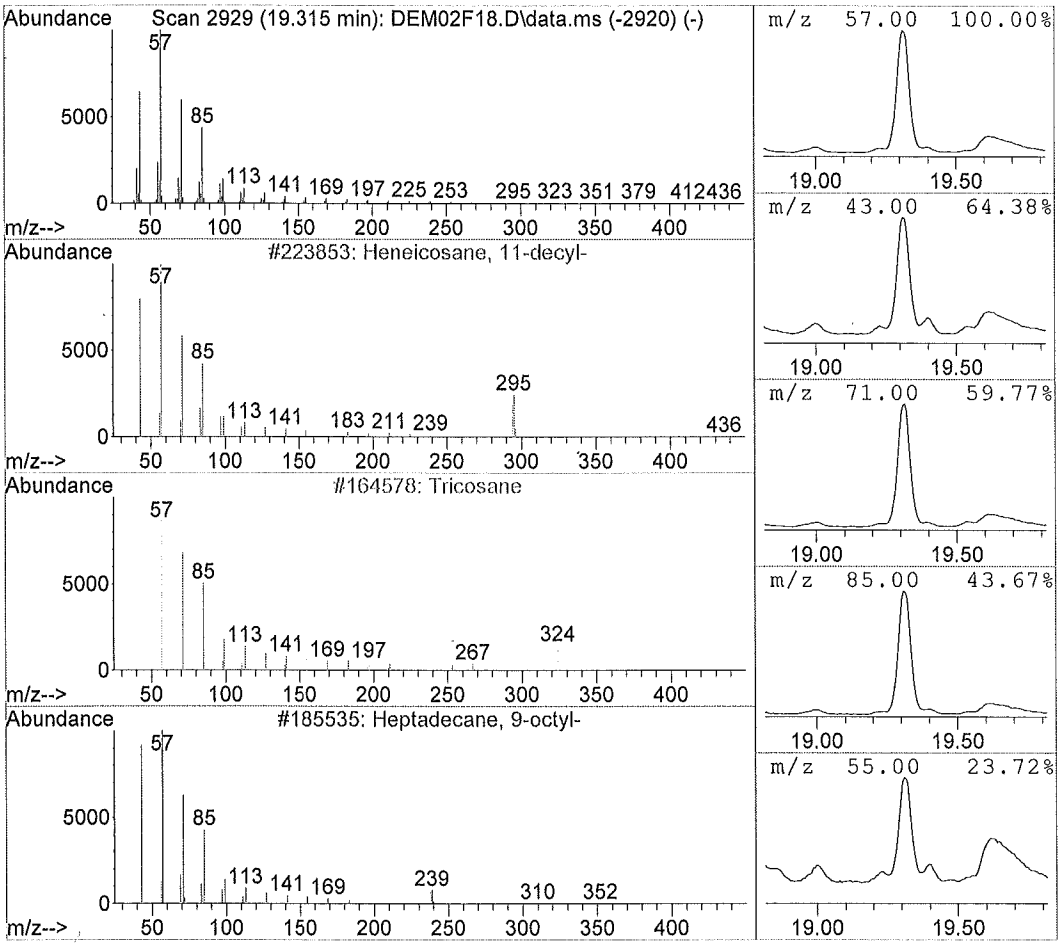
Data File : C:\msdchem\1\data\F9...6)\23JUN15\DEM02F18.D Vial: 2
Acq On : 06/23/2015 08:54 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.32	11.26 ug/ml	3290261	Perylene-d12	5844526

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heneicosane, 11-decyl-	223853	055320-06-4	99.00
2	Tricosane	164578	000638-67-5	97.00
3	Heptadecane, 9-octyl-	185535	007225-64-1	96.00
4	Tetracosane	175555	000646-31-1	94.00
5	Hexacosane	194493	000630-01-3	94.00

BA

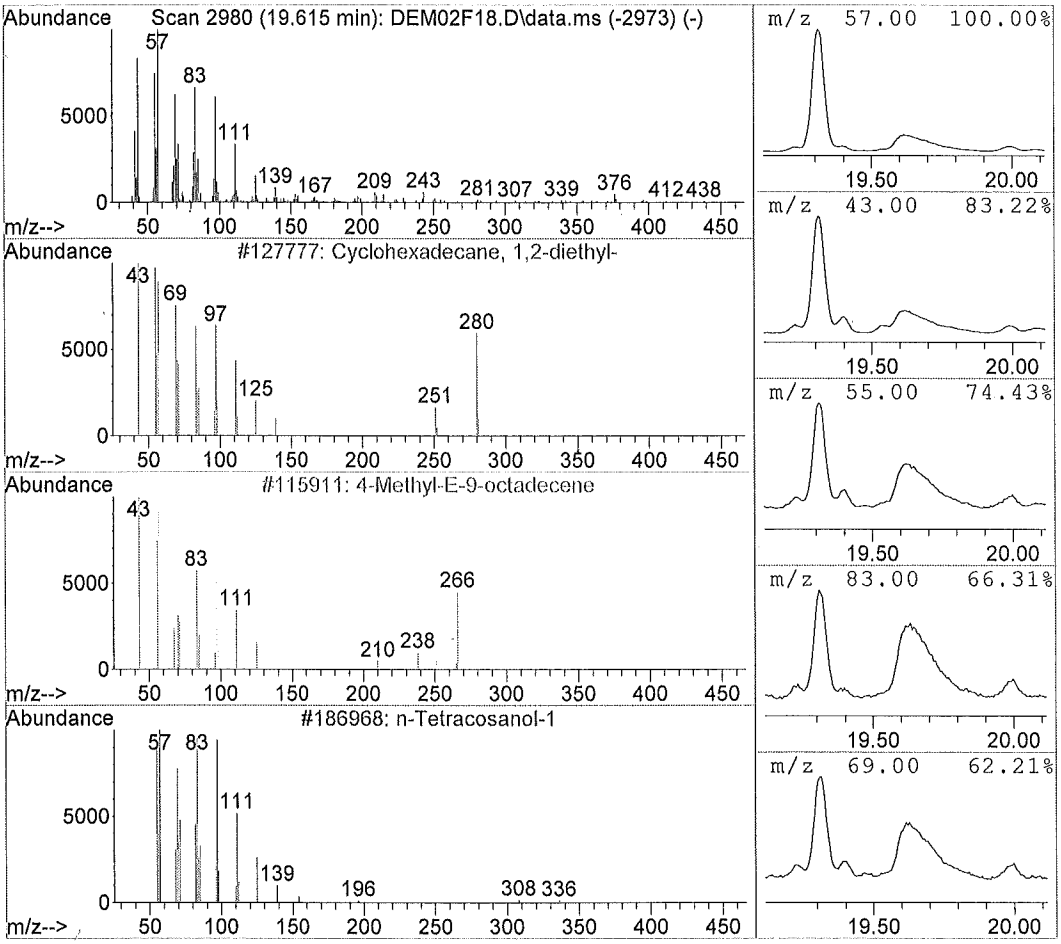


Data File : C:\msdchem\1\data\F9...6)\23JUN15\DEM02F18.D Vial: 2
Acq On : 06/23/2015 08:54 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.62	5.14 ug/ml	1501406	Perylene-d12	5844526

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexadecane, 1,2-diethyl- CA	127777	1000155-85-3	95.00
2	4-Methyl-E-9-octadecene	115911	1000130-87-1	94.00
3	n-Tetracosanol-1	186968	000506-51-4	93.00
4	Heptacosyl acetate	224391	1000351-78-2	93.00
5	Octacosanol	215904	000557-61-9	93.00



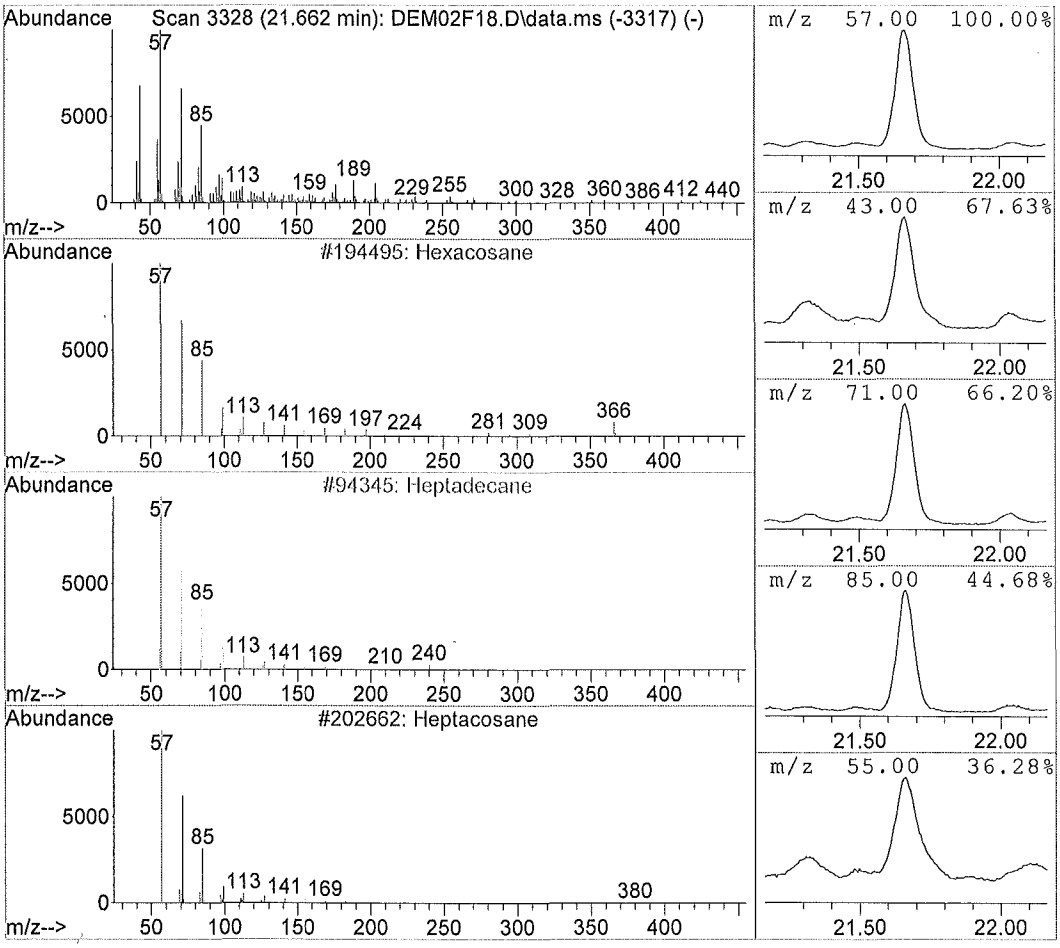
Data File : C:\msdchem\1\data\F9...6)\23JUN15\DEM02F18.D Vial: 2
Acq On : 06/23/2015 08:54 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.66	21.24 ug/ml	6207003	Perylene-d12	5844526

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexacosane	194495	000630-01-3	95.00
2	Heptadecane	94345	000629-78-7	92.00
3	Heptacosane	202662	000593-49-7	91.00
4	Octacosane	209566	000630-02-4	90.00
5	Octadecane, 2-methyl-	117648	001560-88-9	83.00

SA



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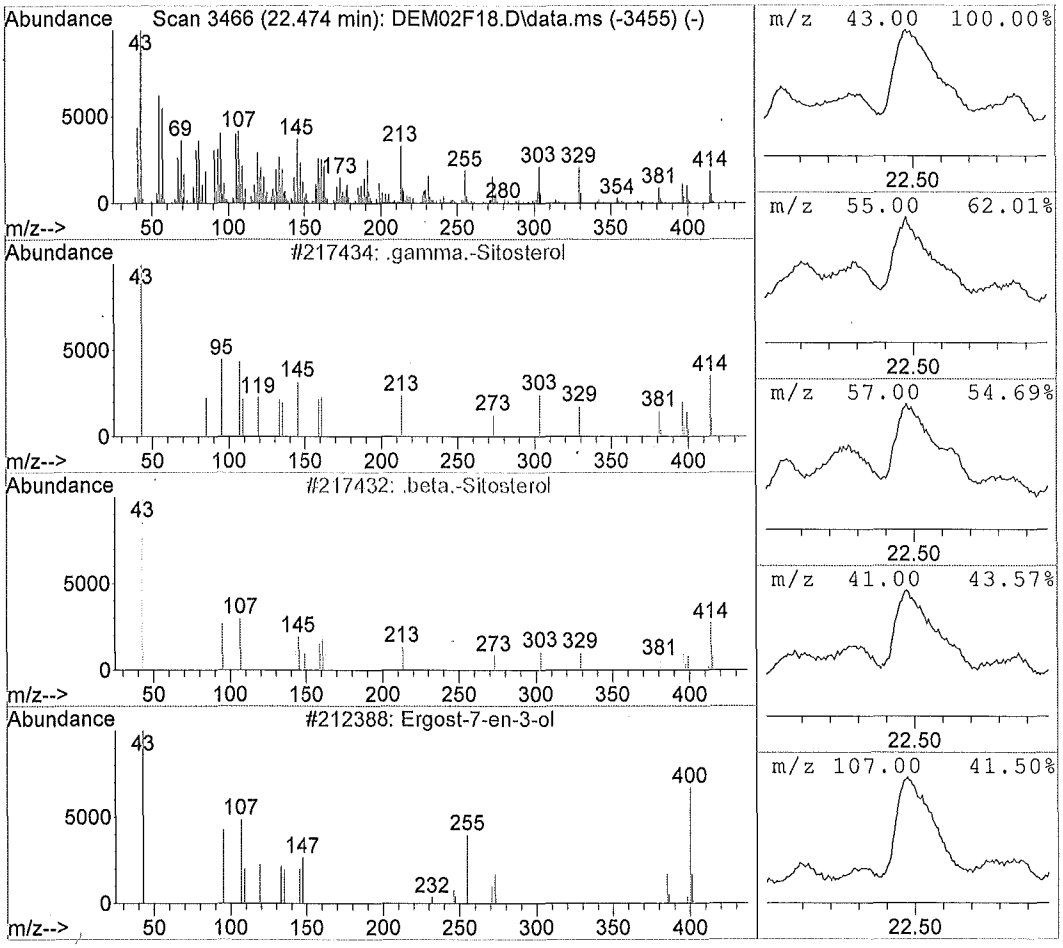
Acq On : 06/23/2015 08:54 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.47	15.58 ug/ml	4554290	Perylene-d12	5844526

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	.gamma.-Sitosterol	217434	000083-47-6	99.00
2	.beta.-Sitosterol	217432	000083-46-5	95.00
3	Ergost-7-en-3-ol	212388	116179-22-7	64.00
4	.alpha.-Ergostenol	212389	000632-32-6	38.00
5	Ergost-5-en-3-ol, (3.beta.)-	212394	004651-51-8	38.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M97

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725019

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DEL10F19

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/22/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	210	U
108-95-2	Phenol	210	U
111-44-4	Bis(2-chloroethyl)ether	210	U
95-57-8	2-Chlorophenol	210	U
95-48-7	2-Methylphenol	210	U
108-60-1	2,2'-Oxybis(1-chloropropane)	210	U
98-86-2	Acetophenone	210	U
106-44-5	4-Methylphenol	210	U
621-64-7	N-Nitroso-di-n-propylamine	210	U
67-72-1	Hexachloroethane	210	U
98-95-3	Nitrobenzene	210	U
78-59-1	Isophorone	210	U
88-75-5	2-Nitrophenol	210	U
105-67-9	2,4-Dimethylphenol	210	U
111-91-1	Bis(2-chloroethoxy)methane	210	U
120-83-2	2,4-Dichlorophenol	210	U
91-20-3	Naphthalene	210	U
106-47-8	4-Chloroaniline	210	U
87-68-3	Hexachlorobutadiene	210	U
105-60-2	Caprolactam	210	U
59-50-7	4-Chloro-3-methylphenol	210	U
91-57-6	2-Methylnaphthalene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U
92-52-4	1,1'-Biphenyl	210	U
91-58-7	2-Chloronaphthalene	210	U
88-74-4	2-Nitroaniline	410	U
131-11-3	Dimethylphthalate	210	U
606-20-2	2,6-Dinitrotoluene	210	U
208-96-8	Acenaphthylene	210	U
99-09-2	3-Nitroaniline	410	U
83-32-9	Acenaphthene	210	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M97

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725019

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DEL10F19

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/22/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	410	U
100-02-7	4-Nitrophenol	410	U
132-64-9	Dibenzofuran	210	U
121-14-2	2,4-Dinitrotoluene	210	U
84-66-2	Diethylphthalate	210	U
86-73-7	Fluorene	210	U
7005-72-3	4-Chlorophenyl-phenylether	210	U
100-01-6	4-Nitroaniline	410	U
534-52-1	4,6-Dinitro-2-methylphenol	410	U
86-30-6	N-Nitrosodiphenylamine[1]	210	U
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U
101-55-3	4-Bromophenyl-phenylether	210	U
118-74-1	Hexachlorobenzene	210	U
1912-24-9	Atrazine	210	U
87-86-5	Pentachlorophenol	410	U
85-01-8	Phenanthrene	100	J
120-12-7	Anthracene	210	U
86-74-8	Carbazole	210	U
84-74-2	Di-n-butylphthalate	210	U
206-44-0	Fluoranthene	23.	J
129-00-0	Pyrene	69.	J
85-68-7	Butylbenzylphthalate	210	U
91-94-1	3,3'-Dichlorobenzidine	210	U
56-55-3	Benzo(a)anthracene	36.	J
218-01-9	Chrysene	58.	J
117-81-7	Bis(2-ethylhexyl)phthalate	210	
117-84-0	Di-n-octylphthalate	210	U
205-99-2	Benzo(b)fluoranthene	27.	J
207-08-9	Benzo(k)fluoranthene	210	U
50-32-8	Benzo(a)pyrene	31.	J
193-39-5	Indeno(1,2,3-cd)pyrene	210	U
53-70-3	Dibenzo(a,h)anthracene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
58-90-2	2,3,4,6-Tetrachlorophenol	210	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M97

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725019
Sample wt/vol: 30.0 (g/mL) g Lab File ID: DEL10F19
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 20. Decanted: (Y/N) N Date Received: 06/05/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/22/2015
GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Propanone, 1-hydroxy-	2.18	320	J
02		Unknown 2-Pentanone, 4-hydroxy-	3.35	760	JB
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.57	16000	JB
04		Unknown 2-Nonanone	4.12	370	JB
05		Unknown Hexane, 2-bromo-	4.23	400	J
06		Unknown 3-Hexene-2,5-dione	4.32	620	J
07		Unknown 4H-Imidazol-4-one, 2-amino-1,5-dihydro-	5.05	660	J
08		Unknown Ethanone, 1-oxiranyl-	5.15	2100	J
09	1000336-31-4	Methyl 13-methyltetradecanoate	11.36	220	JN
10	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	12.30	230	JN
11	112-39-0	Hexadecanoic acid, methyl ester	12.46	430	JN
12	57-10-3	n-Hexadecanoic acid	12.71	440	JN
13	56554-46-2	12-Octadecenoic acid, methyl ester	13.72	240	JN
14	629-54-9	Hexadecanamide	14.19	270	JNB
15	301-02-0	9-Octadecenamide, (Z)-	15.11	1900	JNB
16	112-84-5	13-Docosenamide, (Z)-	17.02	540	JN
17		Unknown Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	21.32	380	J
18	83-46-5	.beta.-Sitosterol	22.52	640	JN
19	4555-56-0	D:C-Friedo-B':A'-neogammacer-9(11)-ene, 3-methox	23.87	300	JN
20	1058-61-3	Stigmast-4-en-3-one	24.34	340	JN
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	3400	J

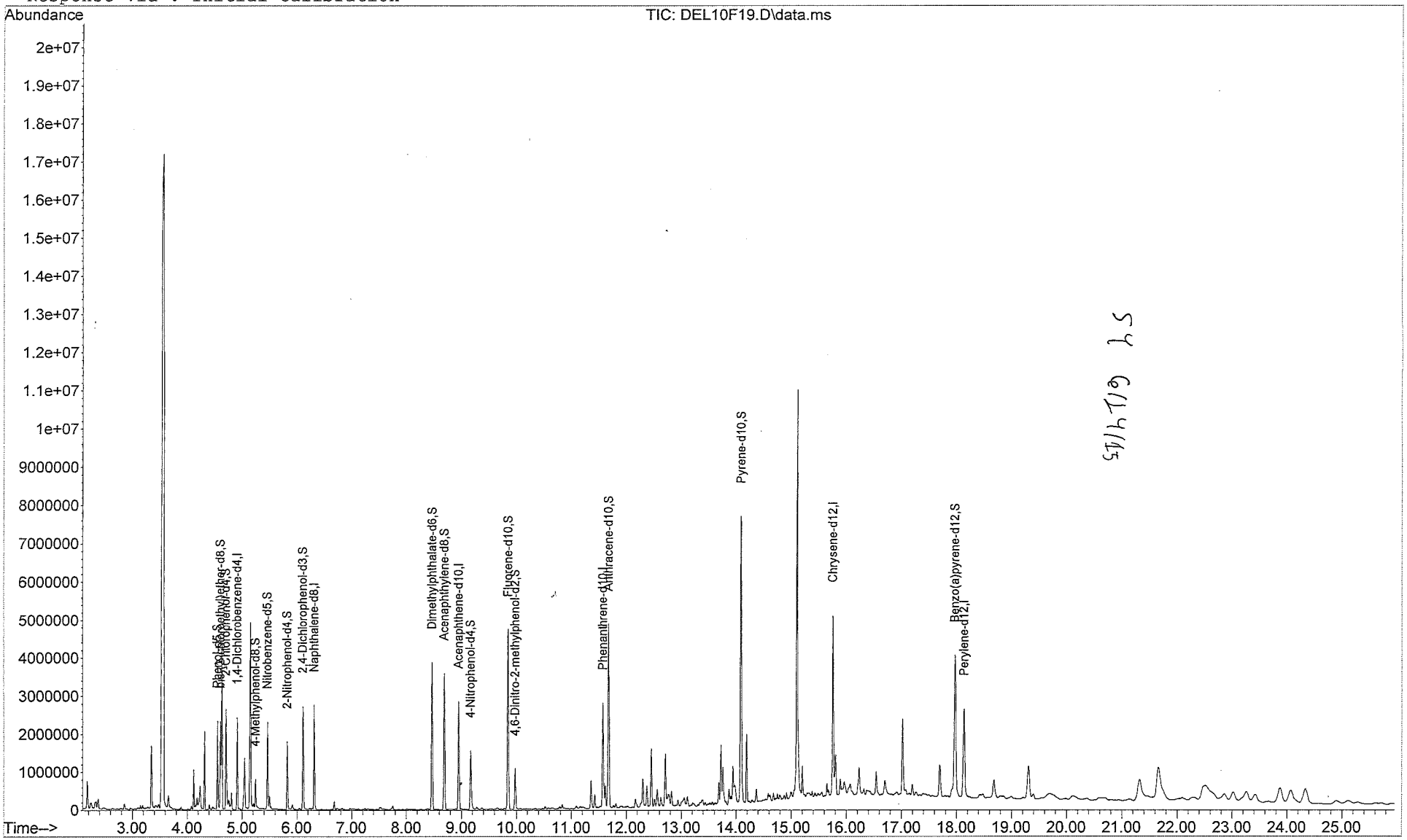
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL10F19.D Vial: 9
Acq On : 06/22/2015 18:07 Operator: DJC
Sample : 1515725019 F9M97 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 24 12:09:22 2015 Results File: DSOM01D6.RES

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 23 08:43:28 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL10F19.D Vial: 9
Acq On : 06/22/2015 18:07 Operator: DJC
Sample : 1515725019 F9M97 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 24 12:09:22 2015 Results File: DSOM01D6.RES

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 23 08:43:28 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.91	152	391042	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1365907	20.00 ug/ml
33) Acenaphthene-d10	8.95	164	894320	20.00 ug/ml
59) Phenanthrene-d10	11.57	188	1638140	20.00 ug/ml
73) Chrysene-d12	15.76	240	2045382	20.00 ug/ml
81) Perylene-d12	18.14	264	1810345	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.55	99	752149	29.331ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	466188	24.288ug/mL
7) 2-Chlorophenol-d4	4.70	132	698417	28.954ug/ml
13) 4-Methylphenol-d8	5.25	113	167334	8.784ug/mL
17) Nitrobenzene-d5	5.46	128	328203	29.186ug/ml
21) 2-Nitrophenol-d4	5.82	143	386722	30.179ug/mL
25) 2,4-Dichlorophenol-d3	6.11	165	684129	31.080ug/mL
28) 4-Chloroaniline-d4	6.43	131	1260	0.056ug/mL
42) Dimethylphthalate-d6	8.47	166	2237895	40.137ug/mL
45) Acenaphthylene-d8	8.69	160	2232896	30.468ug/mL
50) 4-Nitrophenol-d4	9.17	143	402946	38.717ug/mL
57) Fluorene-d10	9.85	176	1889804	38.179ug/mL
61) 4,6-Dinitro-2-methylphenol	9.98	200	257578	24.404ug/mL
69) Anthracene-d10	11.68	188	2875647	33.719ug/mL
75) Pyrene-d10	14.09	212	3424872	40.880ug/mL
86) Benzo(a)pyrene-d12	17.97	264	2821001	33.695ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

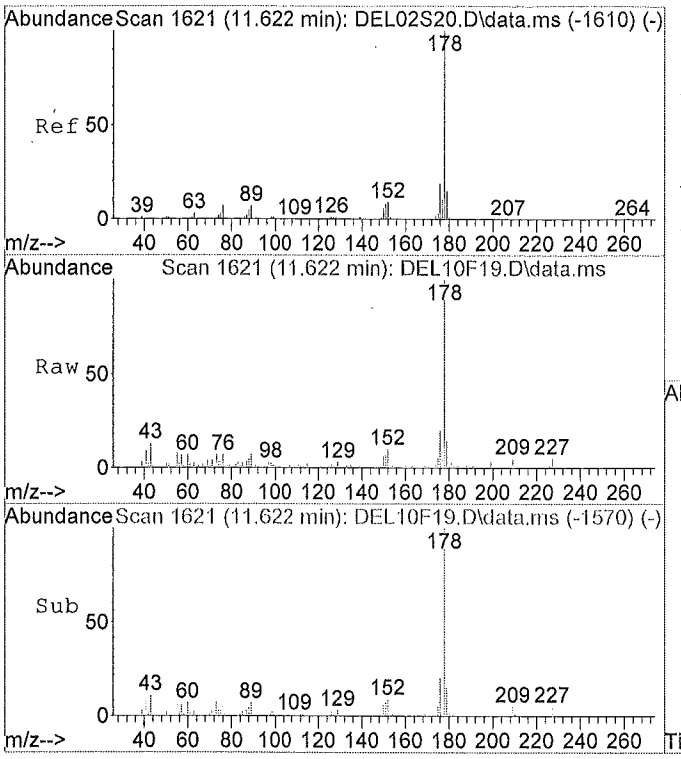
Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL10F19.D Vial: 9
Acq On : 06/22/2015 18:07 Operator: DJC
Sample : 1515725019 F9M97 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 24 12:09:22 2015 Results File: DSOM01D6.RES

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 23 08:43:28 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	0.00	152		Not Detected	
46)	3-Nitroaniline	0.00	138		Not Detected	
47)	Acenaphthene	0.00	153		Not Detected	
48)	2,4-Dinitrophenol	0.00	184		Not Detected	
49)	4-Nitrophenol	0.00	109		Not Detected	
51)	Dibenzofuran	0.00	168		Not Detected	
52)	2,4-Dinitrotoluene	0.00	165		Not Detected	
53)	2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54)	Diethylphthalate	0.00	149		Not Detected	
55)	4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56)	Fluorene	0.00	166		Not Detected	
58)	4-Nitroaniline	0.00	138		Not Detected	
60)	4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62)	N-Nitrosodiphenylamine	0.00	169		Not Detected	
63)	4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64)	Hexachlorobenzene	0.00	284		Not Detected	
65)	Atrazine	0.00	200		Not Detected	
66)	Pentachlorophenol	0.00	266		Not Detected	
67)	Phenanthrene	11.62	178	214671	2.434ug/ml	96
68)	Anthracene	0.00	178		Not Detected	
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	13.76	202	56790	0.546ug/ml	91
74)	Pyrene	14.12	202	184293	1.661ug/ml	78
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	15.75	228	98423	0.854ug/ml	86
79)	Chrysene	15.79	228	134944	1.381ug/ml	95
80)	Bis-(2-ethylhexyl)phthalat	15.81	149	359140	5.139ug/ml	99
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	17.39	252	67703	0.642ug/ml	93
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	17.92	252	75062	0.740ug/ml	95
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

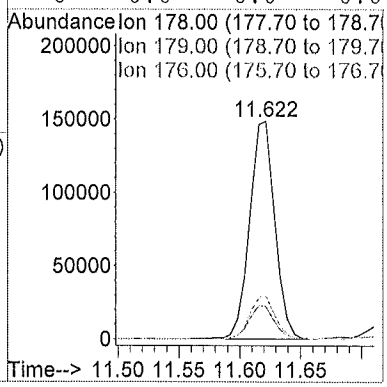
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

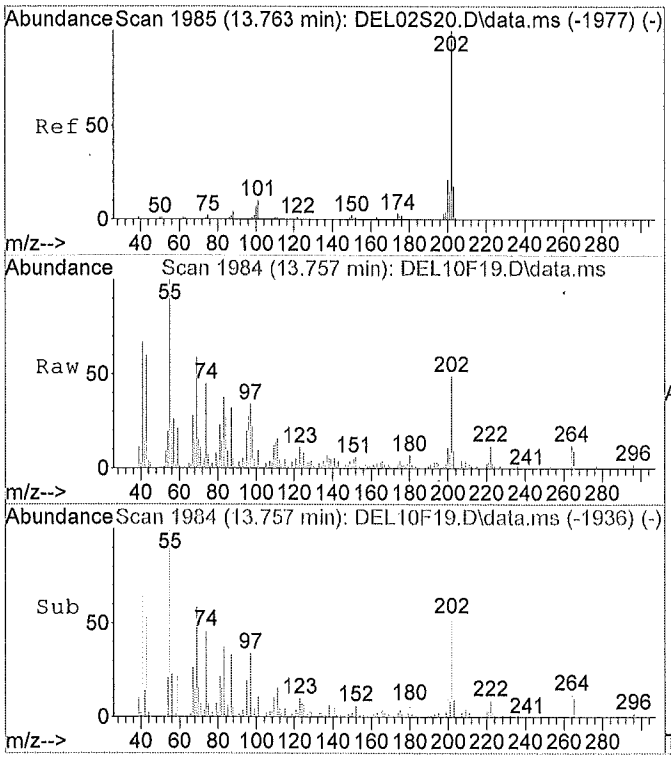


#67
Phenanthrene
Concen: 2.43 ug/ml
RT: 11.62 min Scan# 1621
Delta R.T. 0.00 min
Lab File: DEL10F19.D
Acq: 06/22/2015 18:07

Tgt Ion:178 Resp: 214671

Ion	Ratio	Lower	Upper
178	100		
179	17.1	10.6	19.8
176	20.3	13.2	24.4
0	0.0	0.0	0.0

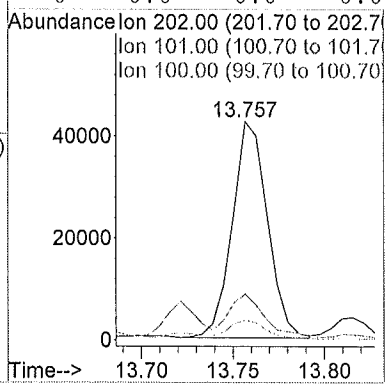


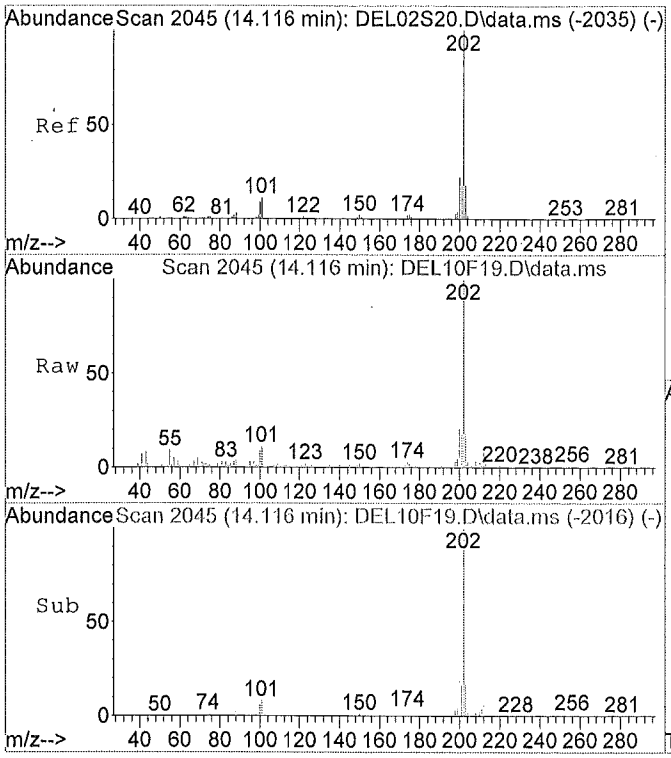


#72
Fluoranthene
Concen: 0.55 ug/ml
RT: 13.76 min Scan# 1984
Delta R.T. -0.01 min
Lab File: DEL10F19.D
Acq: 06/22/2015 18:07

Tgt Ion:202 Resp: 56790

Ion	Ratio	Lower	Upper
202	100		
101	19.8	10.5	19.5#
100	8.9	7.4	13.8
0	0.0	0.0	0.0

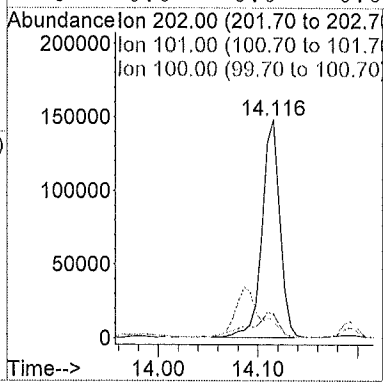


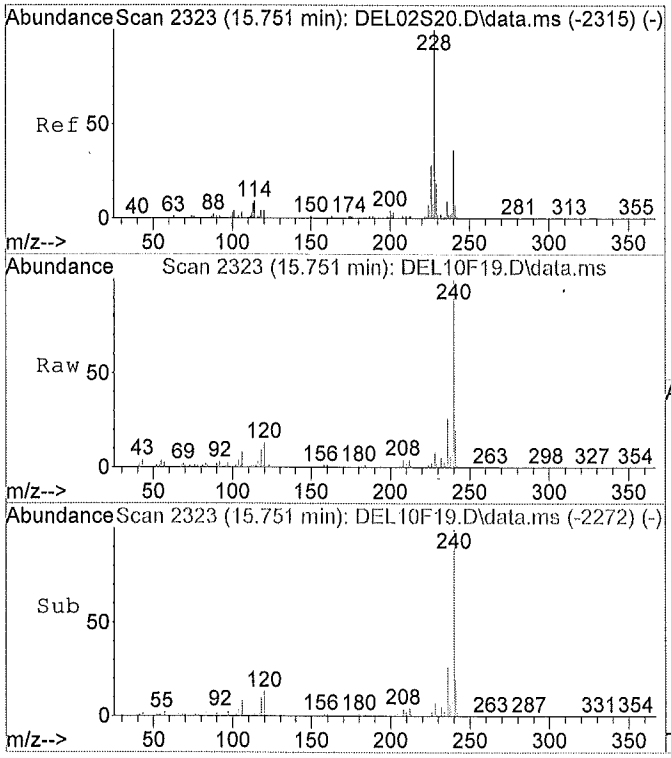


#74
Pyrene
Concen: 1.66 ug/ml
RT: 14.12 min Scan# 2045
Delta R.T. 0.00 min
Lab File: DEL10F19.D
Acq: 06/22/2015 18:07

Tgt Ion:202 Resp: 184293

Ion	Ratio	Lower	Upper
202	100		
101	18.3	12.2	22.7
100	33.4	10.1	18.7#
0	0.0	0.0	0.0

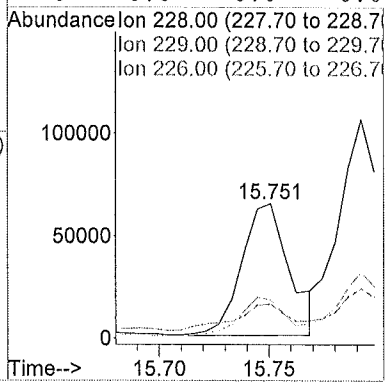


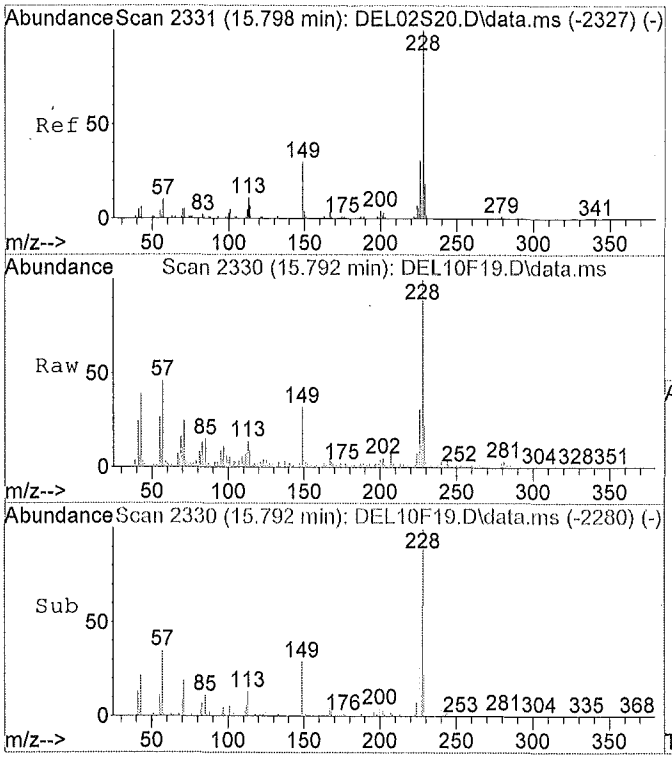


#78
Benzo(a)anthracene
Concen: 0.85 ug/ml
RT: 15.75 min Scan# 2323
Delta R.T. 0.00 min
Lab File: DEL10F19.D
Acq: 06/22/2015 18:07

Tgt Ion:228 Resp: 98423

Ion	Ratio	Lower	Upper
228	100		
229	33.0	13.7	25.5#
226	27.5	18.2	33.8
0	0.0	0.0	0.0

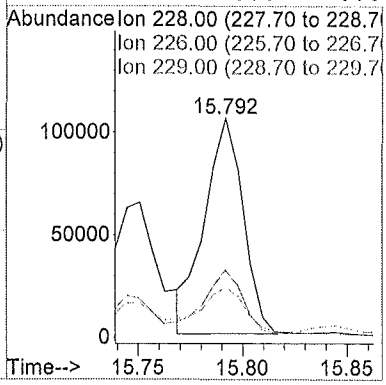


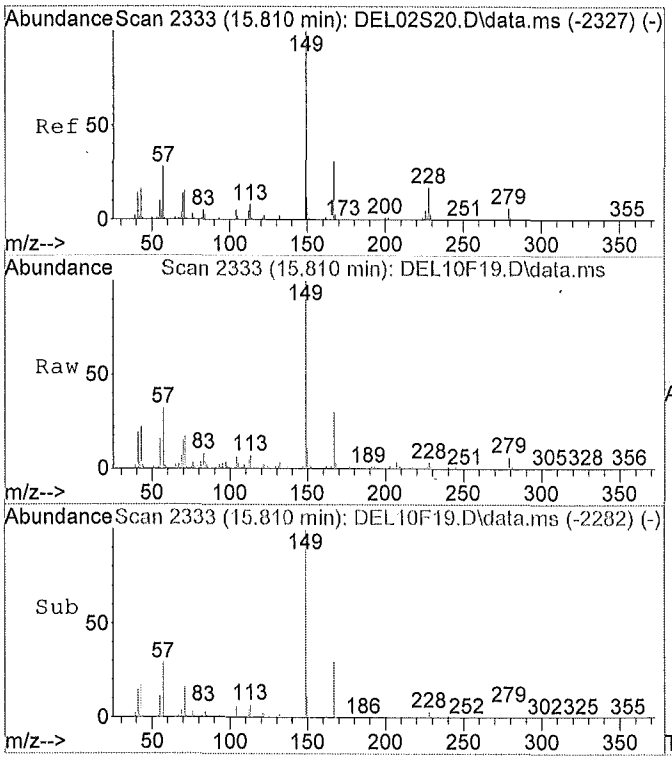


#79
Chrysene
Concen: 1.38 ug/ml
RT: 15.79 min Scan# 2330
Delta R.T. -0.01 min
Lab File: DEL10F19.D
Acq: 06/22/2015 18:07

Tgt Ion:228 Resp: 134944

Ion	Ratio	Lower	Upper
228	100		
226	29.1	20.1	37.3
229	25.2	13.7	25.5
0	0.0	0.0	0.0

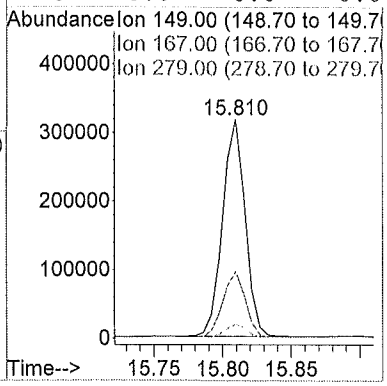


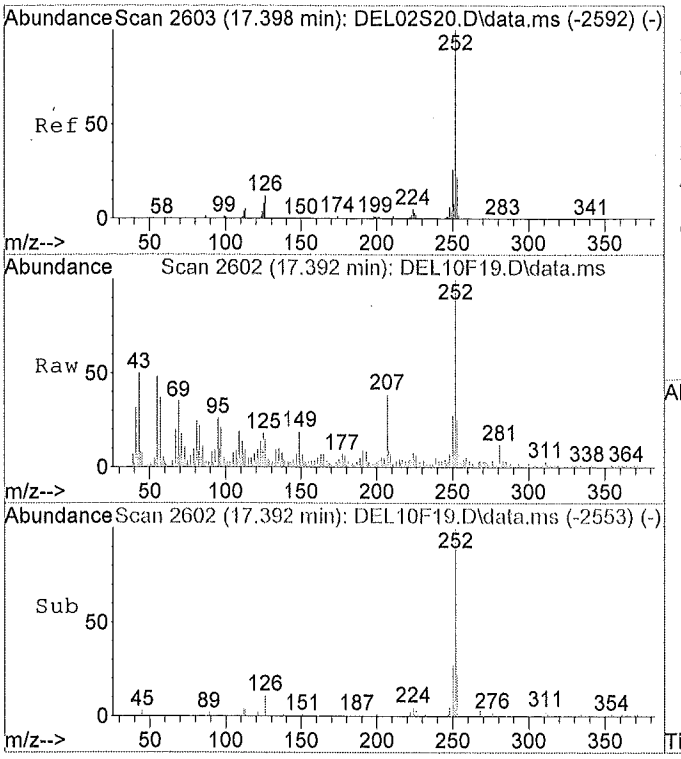


#80
Bis-(2-ethylhexyl)phthalate
Concen: 5.14 ug/ml
RT: 15.81 min Scan# 2333
Delta R.T. 0.00 min
Lab File: DEL10F19.D
Acq: 06/22/2015 18:07

Tgt Ion:149 Resp: 359140

Ion	Ratio	Lower	Upper
149	100		
167	30.8	22.0	40.8
279	6.6	5.0	9.2
0	0.0	0.0	0.0

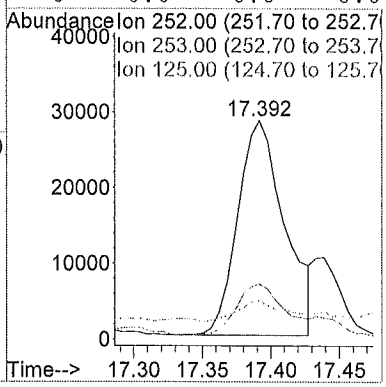


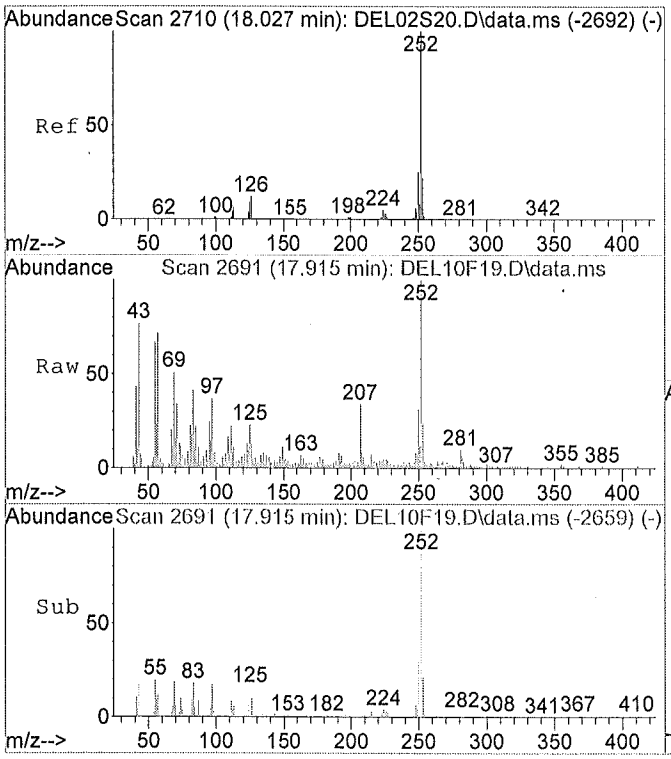


#83
Benzo(b)fluoranthene
Concen: 0.64 ug/ml
RT: 17.39 min Scan# 2602
Delta R.T. -0.01 min
Lab File: DEL10F19.D
Acq: 06/22/2015 18:07

Tgt Ion:252 Resp: 67703

Ion	Ratio	Lower	Upper
252	100		
253	23.6	15.1	28.1
125	10.2	10.6	19.8#
0	0.0	0.0	0.0

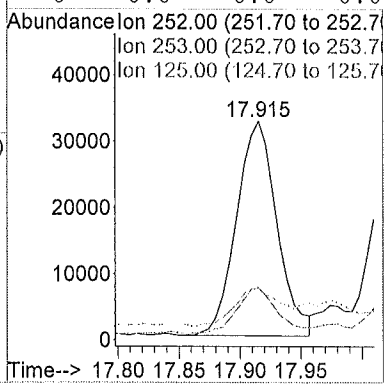




#85
Benzo(a)pyrene
Concen: 0.74 ug/ml
RT: 17.92 min Scan# 2691
Delta R.T. -0.11 min
Lab File: DEL10F19.D
Acq: 06/22/2015 18:07

Tgt Ion:252 Resp: 75062

Ion	Ratio	Lower	Upper
252	100		
253	22.5	15.2	28.2
125	20.9	11.8	21.8
0	0.0	0.0	0.0



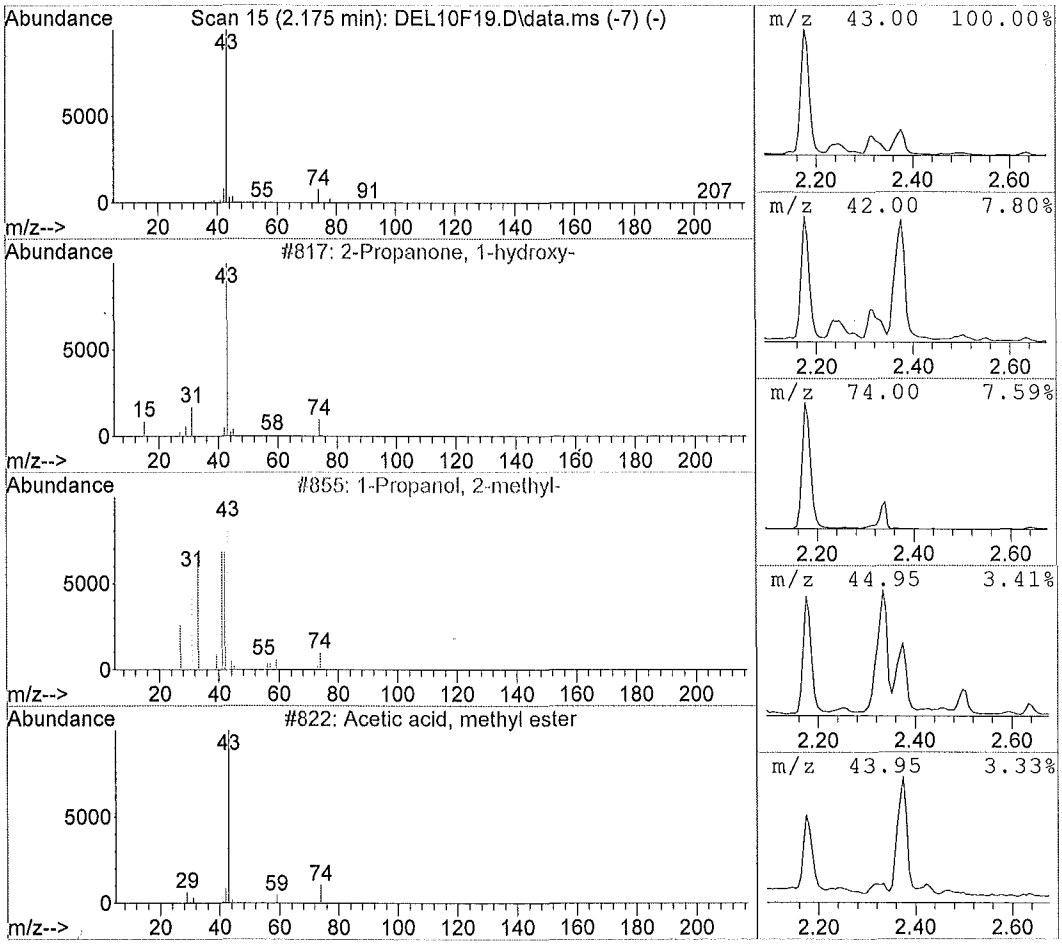
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL10F19.D Vial: 9
Acq On : 06/22/2015 18:07 Operator: DJC
Sample : 1515725019 F9M97 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.18	7.77 ug/ml	920496	1,4-Dichlorobenzene-d4	2368502

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-hydroxy-	817	000116-09-6	7.00
2	1-Propanol, 2-methyl-	855	000078-83-1	5.00
3	Acetic acid, methyl ester	822	000079-20-9	5.00
4	Acetic acid, hydrazide	778	001068-57-1	5.00
5	Hydrogen azide	70	007782-79-8	4.00

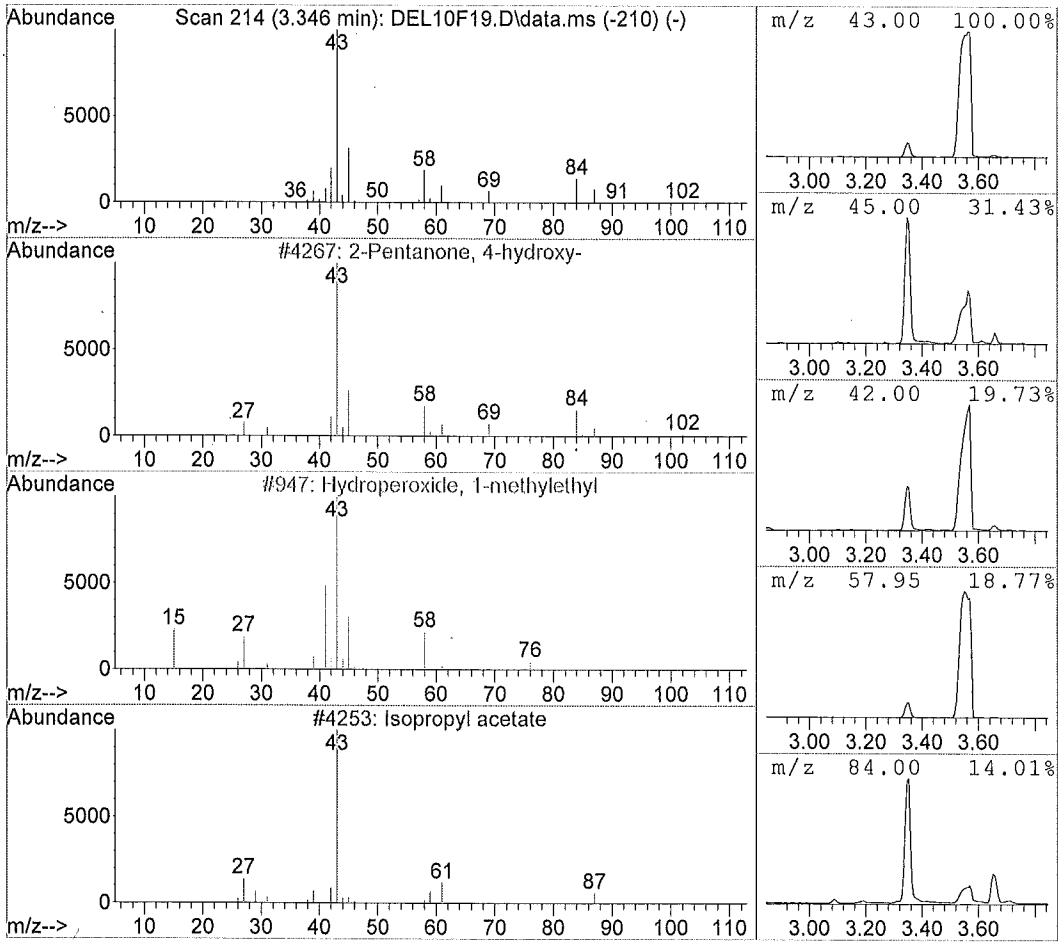


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL10F19.D Vial: 9
Acq On : 06/22/2015 18:07 Operator: DJC
Sample : 1515725019 F9M97 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.35	18.22 ug/ml	2157304	1,4-Dichlorobenzene-d4	2368502

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	40.00
2	Hydroperoxide, 1-methylethyl	947	003031-75-2	38.00
3	Isopropyl acetate	4253	000108-21-4	17.00
4	2,3-Epoxybutane	677	003266-23-7	12.00
5	Propane, 1-(1-methylethoxy)-	4493	000627-08-7	9.00

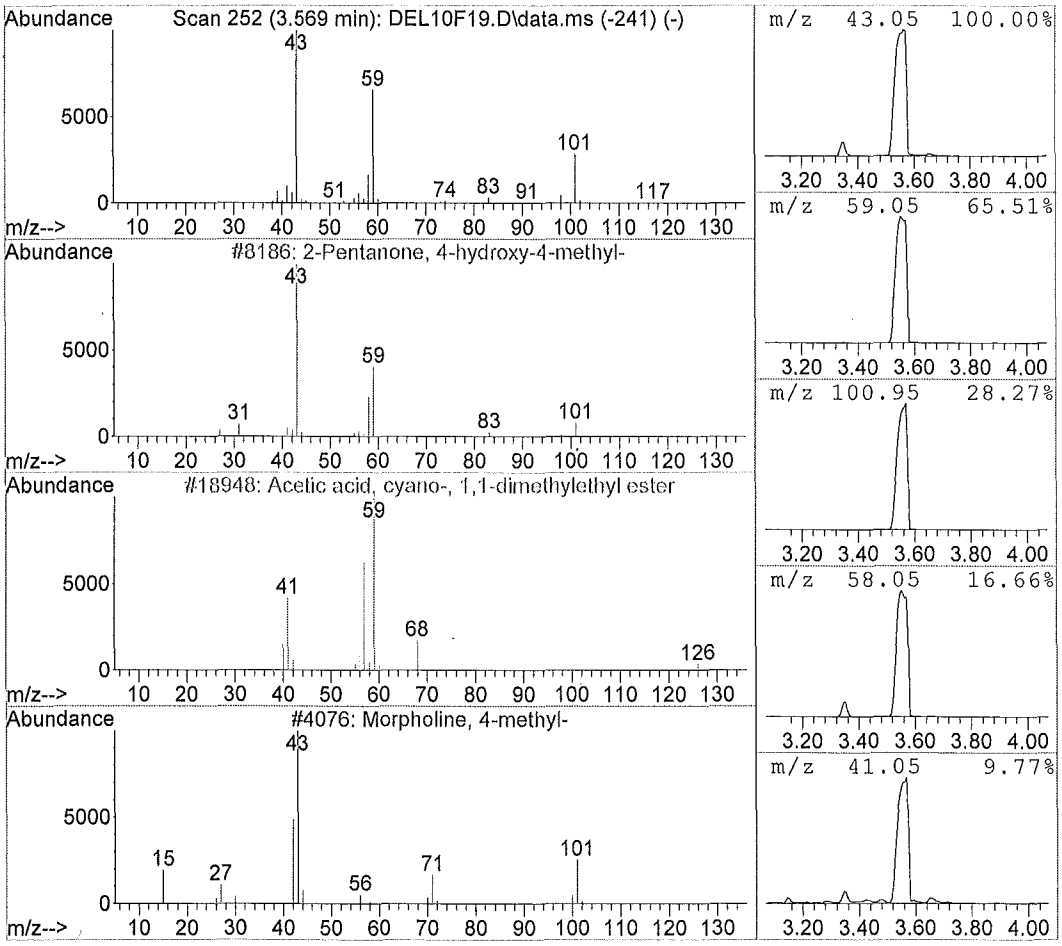


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL10F19.D Vial: 9
Acq On : 06/22/2015 18:07 Operator: DJC
Sample : 1515725019 F9M97 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.57	377.72 ug/ml	44731517	1,4-Dichlorobenzene-d4	2368502

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	56.00
2	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	17.00
3	Morpholine, 4-methyl-	4076	000109-02-4	9.00
4	Acetone	214	000067-64-1	9.00
5	Butane, 1-ethoxy-	4425	000628-81-9	9.00

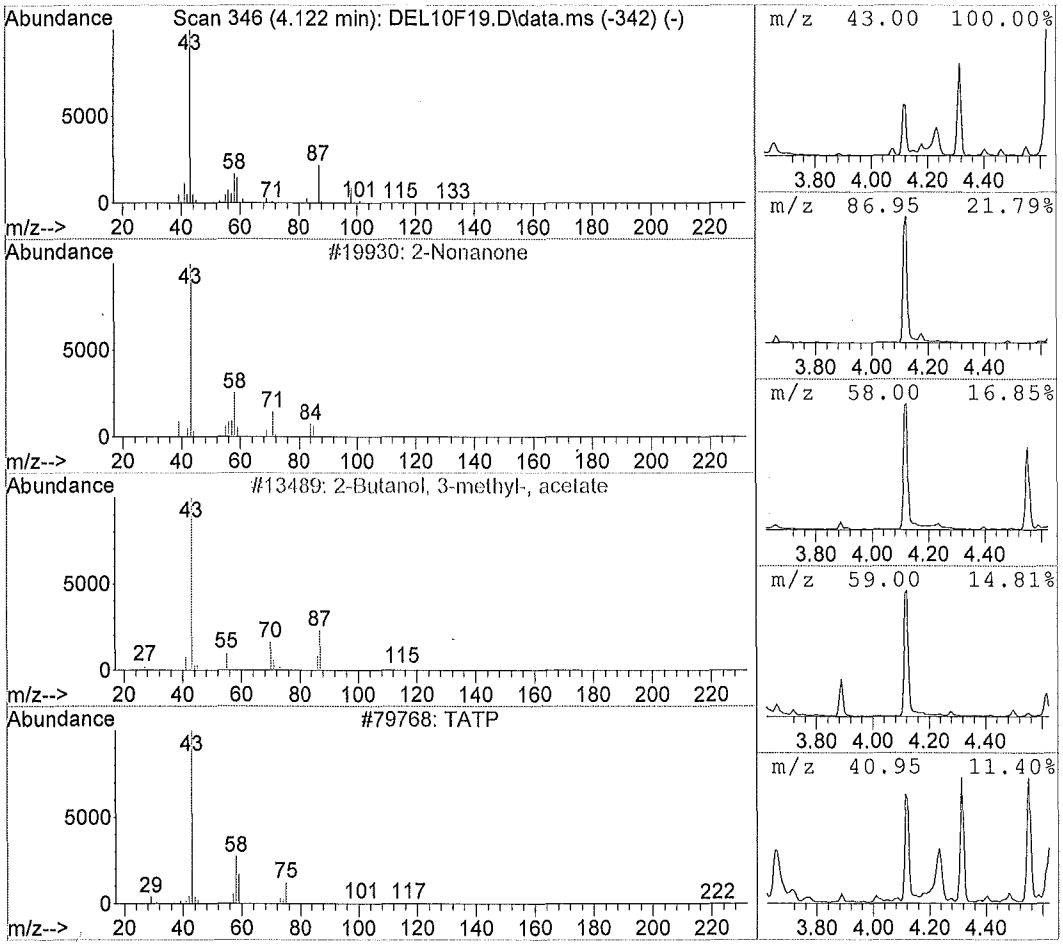


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL10F19.D Vial: 9
Acq On : 06/22/2015 18:07 Operator: DJC
Sample : 1515725019 F9M97 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.12	8.81 ug/ml	1043853	1,4-Dichlorobenzene-d4	2368502

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Nonanone	19930	000821-55-6	25.00
2	2-Butanol, 3-methyl-, acetate	13489	005343-96-4	17.00
3	TATP	79768	017088-37-8	12.00
4	Formamide, N-butyl-	4070	000871-71-6	9.00
5	Thiocyanic acid, ethyl ester	1854	000542-90-5	9.00

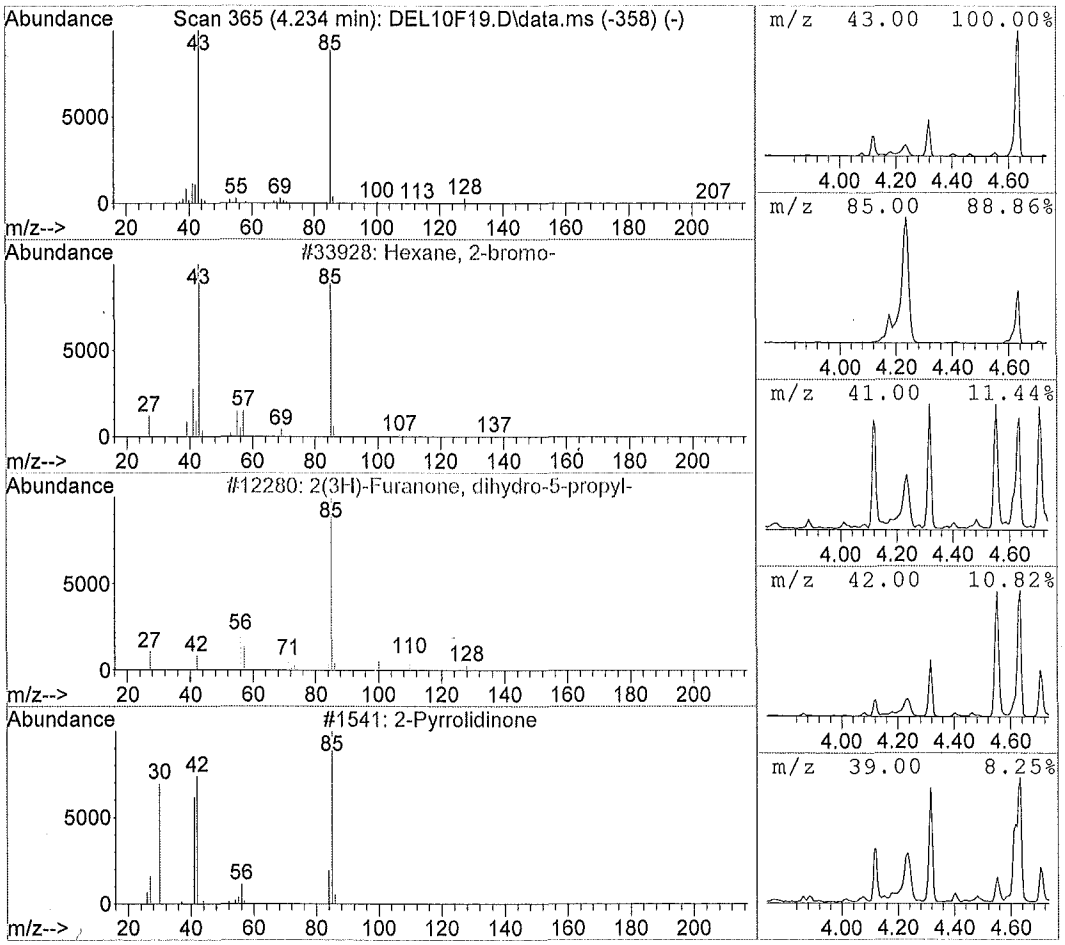


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL10F19.D Vial: 9
Acq On : 06/22/2015 18:07 Operator: DJC
Sample : 1515725019 F9M97 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.23	9.59 ug/ml	1135450	1,4-Dichlorobenzene-d4	2368502

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2-bromo-	33928	003377-86-4	72.00
2	2(3H)-Furanone, dihydro-5-propyl-	12280	000105-21-5	45.00
3	2-Pyrrolidinone	1541	000616-45-5	40.00
4	Hexane, 1,1'-oxybis-	50332	000112-58-3	40.00
5	4-Methoxy-3-buten-2-one	3689	004652-27-1	38.00

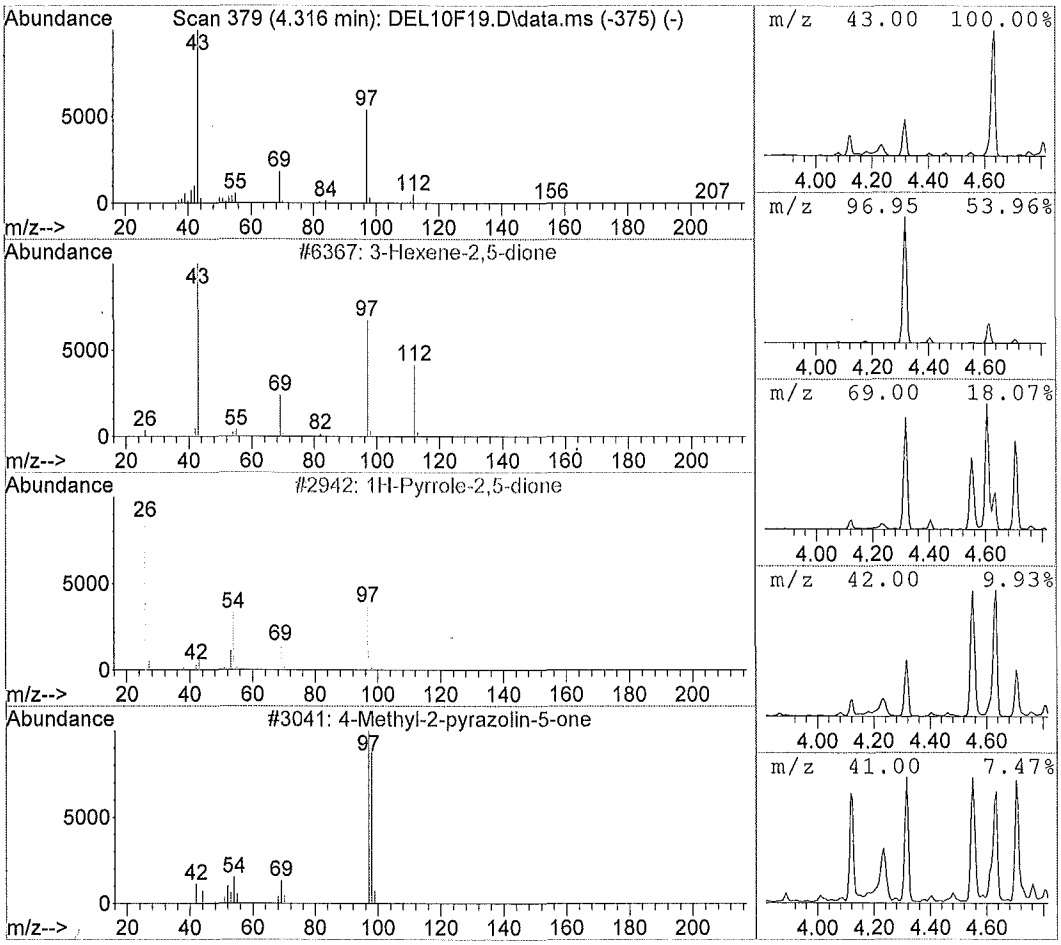


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL10F19.D Vial: 9
Acq On : 06/22/2015 18:07 Operator: DJC
Sample : 1515725019 F9M97 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.32	14.78 ug/ml	1750879	1,4-Dichlorobenzene-d4	2368502

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene-2,5-dione	6367	004436-75-3	38.00
2	1H-Pyrrole-2,5-dione	2942	000541-59-3	38.00
3	4-Methyl-2-pyrazolin-5-one	3041	013315-23-6	28.00
4	5-Amino-3-methylpyrazole	2946	031230-17-8	25.00
5	1H-Pyrazol-4-amine, 3-methyl-	2952	1000338-28-2	23.00

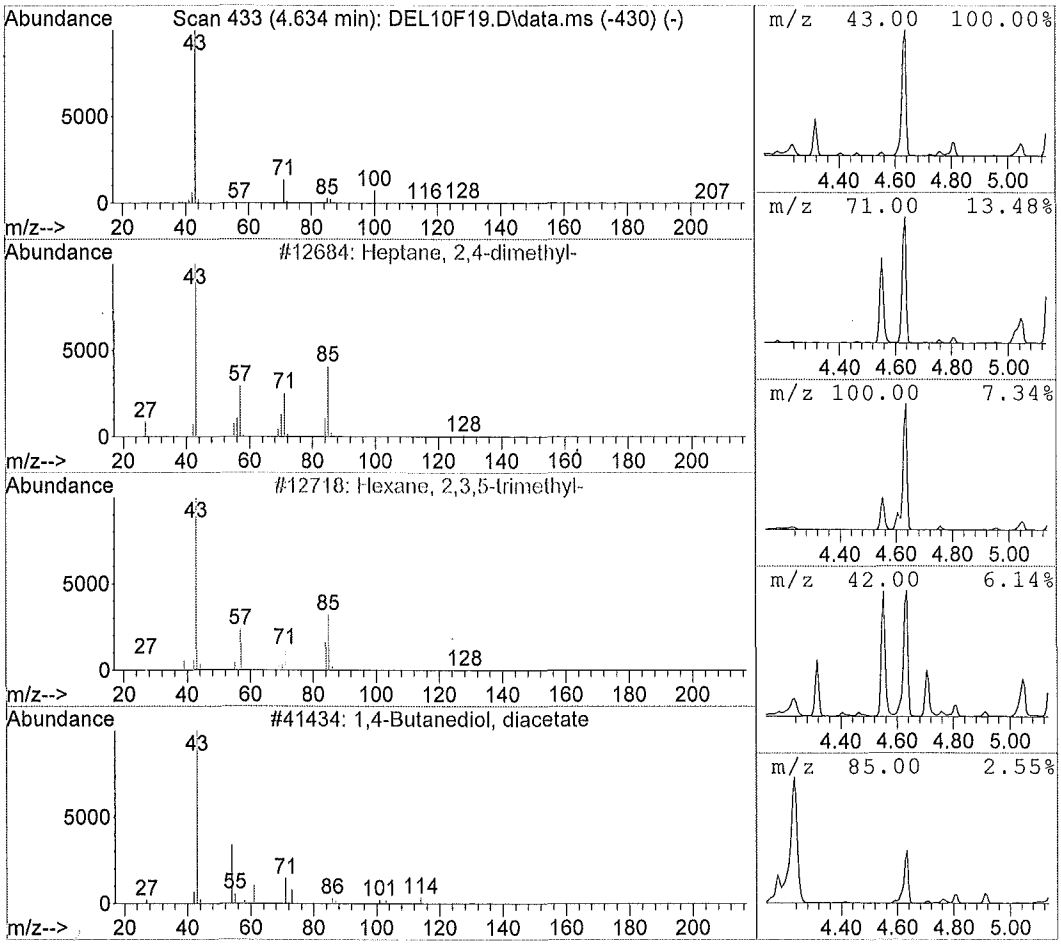


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL10F19.D Vial: 9
Acq On : 06/22/2015 18:07 Operator: DJC
Sample : 1515725019 F9M97 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.63	33.78 ug/ml	3999865	1,4-Dichlorobenzene-d4	2368502

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,4-dimethyl- BA	12684	002213-23-2	9.00
2	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	9.00
3	1,4-Butanediol, diacetate	41434	000628-67-1	9.00
4	Butane, 2,3-dimethyl-	1828	000079-29-8	7.00
5	2-Pentanone, 3-methyl-	3865	000565-61-7	7.00

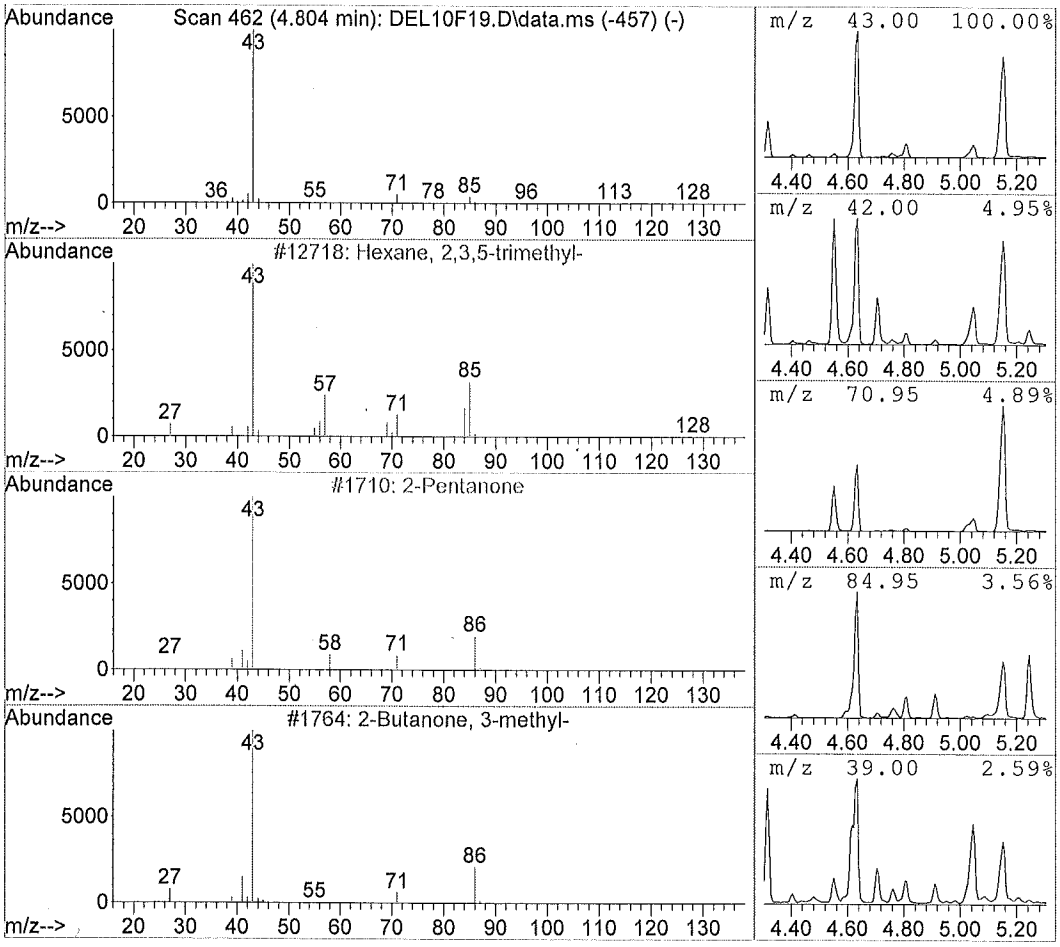


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL10F19.D Vial: 9
Acq On : 06/22/2015 18:07 Operator: DJC
Sample : 1515725019 F9M97 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.80	4.61 ug/ml	545821	1,4-Dichlorobenzene-d4	2368502

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	4.00
2	2-Pentanone	1710	000107-87-9	4.00
3	2-Butanone, 3-methyl-	1764	000563-80-4	4.00
4	Butane, 2,3-dimethyl-	1832	000079-29-8	3.00
5	Octane, 4-methyl-	12674	002216-34-4	3.00

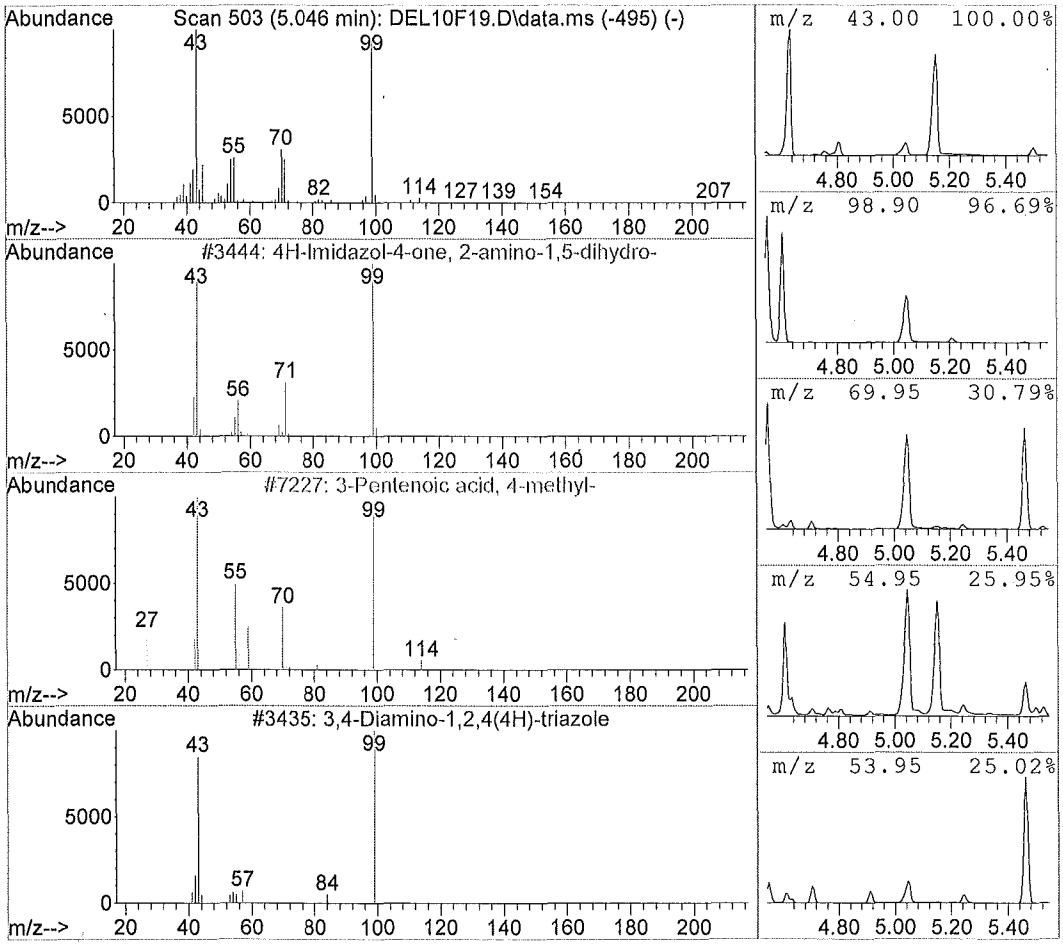


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL10F19.D Vial: 9
Acq On : 06/22/2015 18:07 Operator: DJC
Sample : 1515725019 F9M97 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.05	15.90 ug/ml	1882799	1,4-Dichlorobenzene-d4	2368502

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4H-Imidazol-4-one, 2-amino-1,5-dihy	3444	000503-86-6	50.00
2	3-Pentenoic acid, 4-methyl-	7227	000504-85-8	50.00
3	3,4-Diamino-1,2,4(4H)-triazole	3435	038104-45-9	47.00
4	3,5-Diamino-1,2,4-triazole	3432	001455-77-2	38.00
5	4-Methylthiazole	3458	000693-95-8	38.00

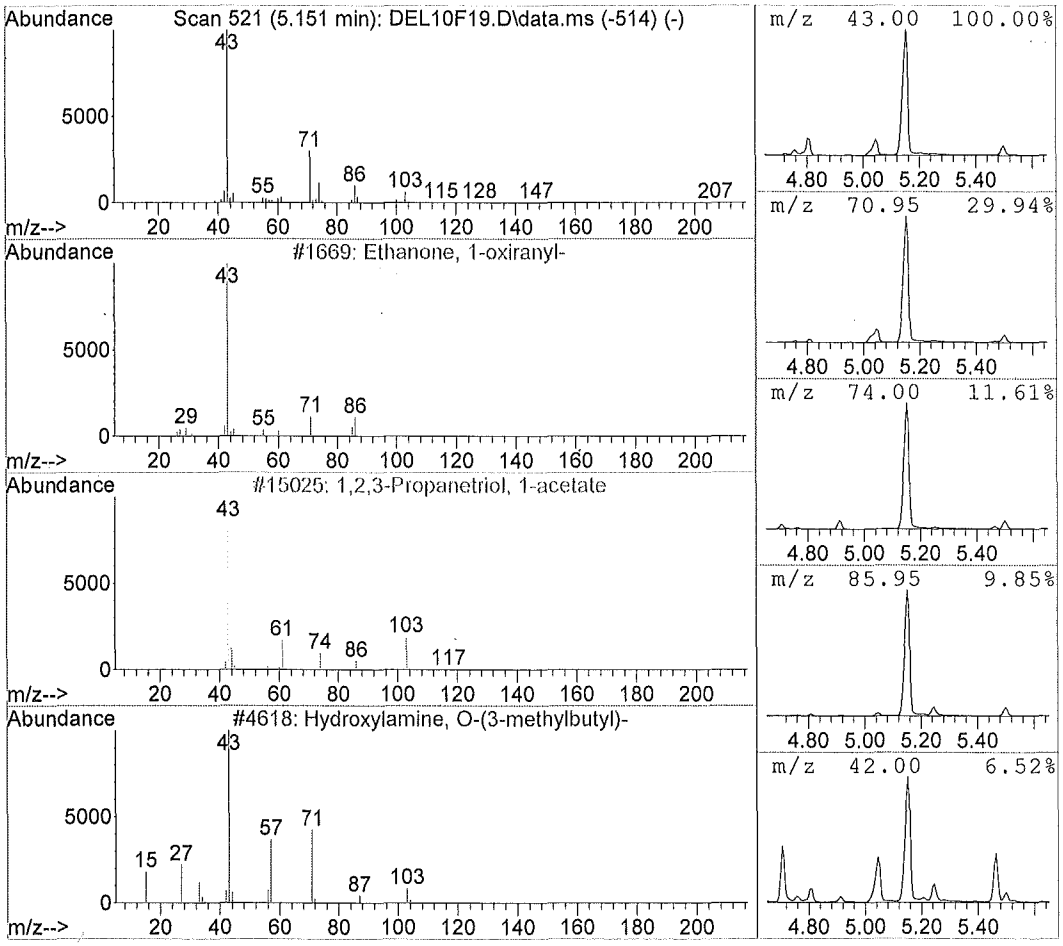


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL10F19.D Vial: 9
Acq On : 06/22/2015 18:07 Operator: DJC
Sample : 1515725019 F9M97 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.15	51.45 ug/ml	6093516	1,4-Dichlorobenzene-d4	2368502

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanone, 1-oxiranyl-	1669	004401-11-0	35.00
2	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	25.00
3	Hydroxylamine, O-(3-methylbutyl)-	4618	019411-65-5	23.00
4	2-Propanone, 1-hydroxy-	819	000116-09-6	22.00
5	Ethanol, 2-(pentyloxy)-, acetate	41640	005312-09-4	17.00

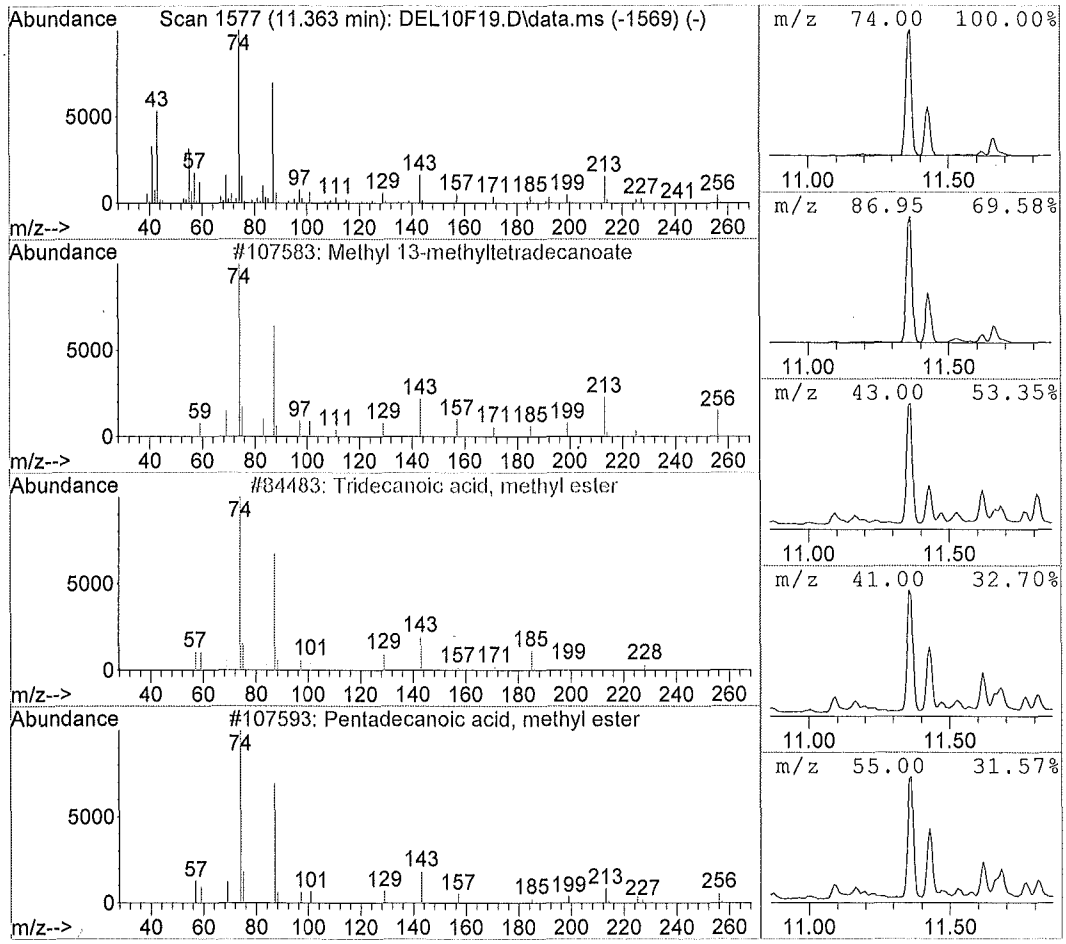


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL10F19.D Vial: 9
Acq On : 06/22/2015 18:07 Operator: DJC
Sample : 1515725019 F9M97 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.36	5.37 ug/ml	1083348	Phenanthrene-d10	4037480

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methyl 13-methyltetradecanoate	107583	1000336-31-4	97.00
2	Tridecanoic acid, methyl ester	84483	001731-88-0	95.00
3	Pentadecanoic acid, methyl ester	107593	007132-64-1	94.00
4	Methyl 9-methyltetradecanoate	107578	213617-69-7	91.00
5	Tridecanoic acid, 12-methyl-, methy	95898	005129-58-8	83.00

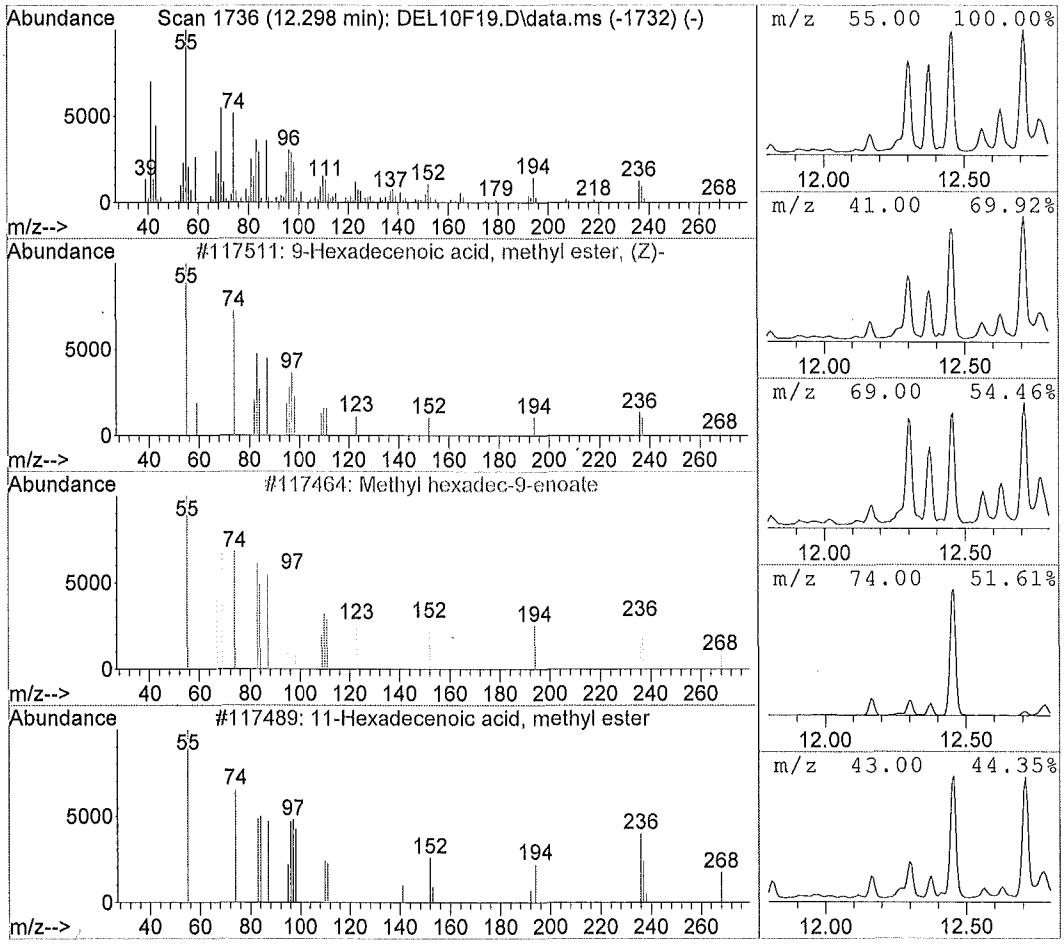


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL10F19.D Vial: 9
Acq On : 06/22/2015 18:07 Operator: DJC
Sample : 1515725019 F9M97 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.30	5.46 ug/ml	1102735	Phenanthrene-d10	4037480

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Hexadecenoic acid, methyl ester,	117511	001120-25-8	99.00
2	Methyl hexadec-9-enoate	117464	010030-74-7	90.00
3	11-Hexadecenoic acid, methyl ester	117489	055000-42-5	83.00
4	Methyl myristoleate	94118	056219-06-8	83.00
5	Methyl 11-hexadecenoate	117465	1000336-35-5	80.00

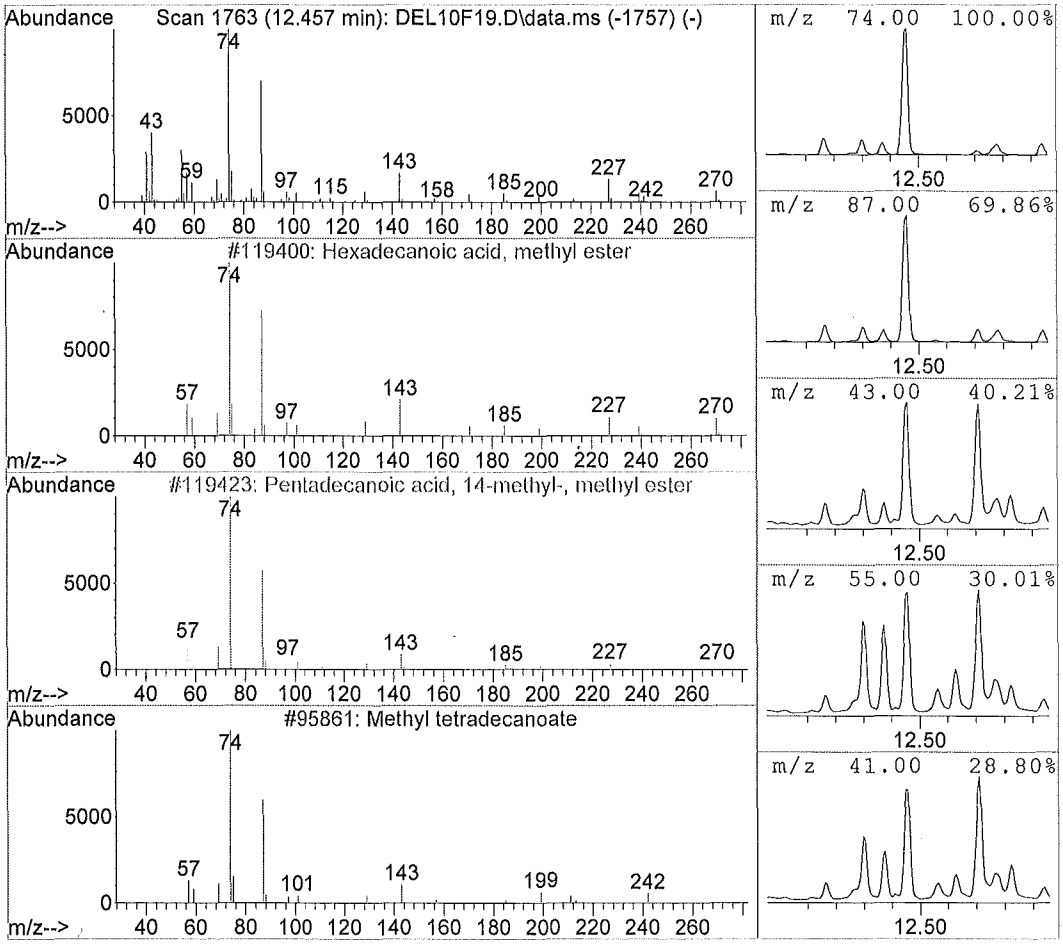


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL10F19.D Vial: 9
Acq On : 06/22/2015 18:07 Operator: DJC
Sample : 1515725019 F9M97 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.46	10.42 ug/ml	2104064	Phenanthrene-d10	4037480

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, methyl ester	119400	000112-39-0	98.00
2	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	95.00
3	Methyl tetradecanoate	95861	000124-10-7	93.00
4	Tridecanoic acid, methyl ester	84485	001731-88-0	93.00
5	Dodecanoic acid, 10-methyl-, methyl	84514	005129-65-7	83.00



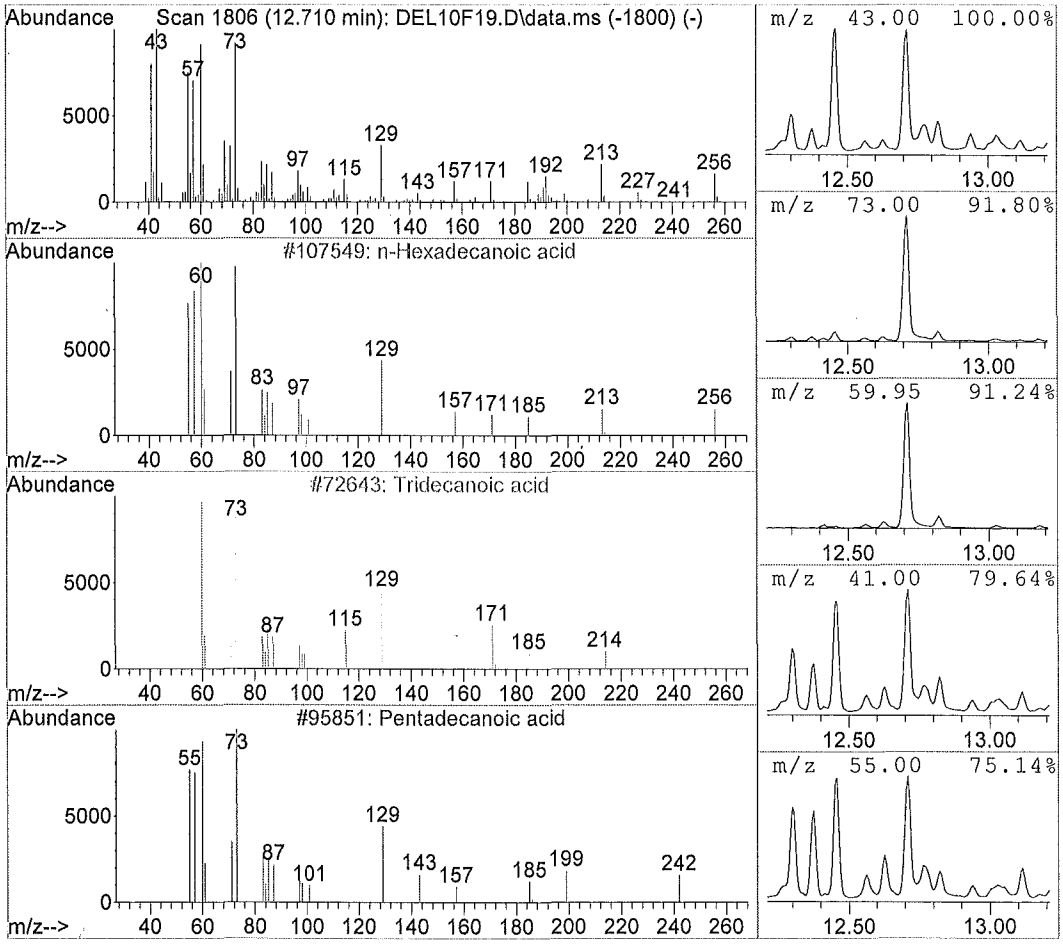
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL10F19.D Vial: 9
Acq On : 06/22/2015 18:07 Operator: DJC
Sample : 1515725019 F9M97 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.71	10.56 ug/ml	2132313	Phenanthrene-d10	4037480

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Tridecanoic acid	72643	000638-53-9	95.00
3	Pentadecanoic acid	95851	001002-84-2	81.00
4	Tetradecanoic acid	84452	000544-63-8	74.00
5	n-Decanoic acid	39474	000334-48-5	60.00

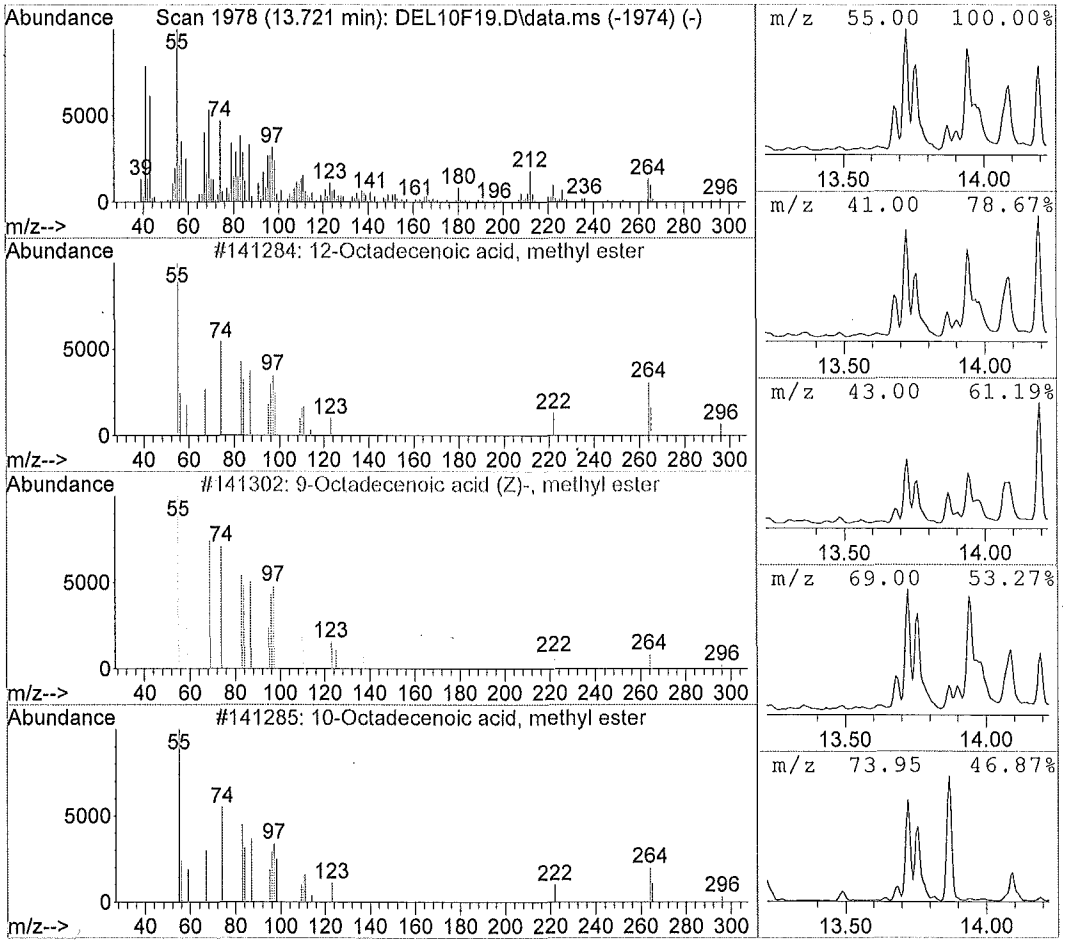


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL10F19.D Vial: 9
Acq On : 06/22/2015 18:07 Operator: DJC
Sample : 1515725019 F9M97 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.72	5.83 ug/ml	1832093	Chrysene-d12	6286892

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	12-Octadecenoic acid, methyl ester	141284	056554-46-2	99.00
2	9-Octadecenoic acid (Z)-, methyl es	141302	000112-62-9	99.00
3	10-Octadecenoic acid, methyl ester	141285	013481-95-3	99.00
4	13-Octadecenoic acid, methyl ester	141286	056554-47-3	99.00
5	11-Octadecenoic acid, methyl ester	141290	052380-33-3	99.00

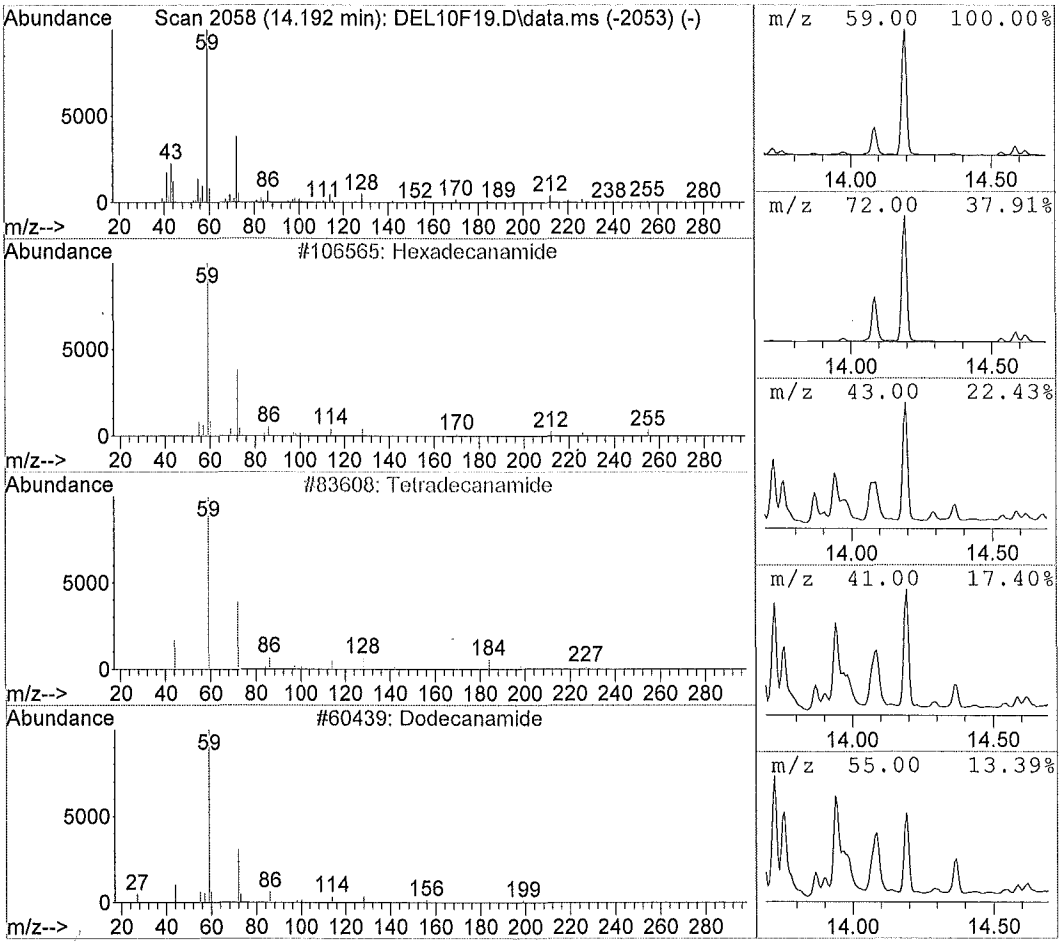


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL10F19.D Vial: 9
Acq On : 06/22/2015 18:07 Operator: DJC
Sample : 1515725019 F9M97 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.19	6.56 ug/ml	2063322	Chrysene-d12	6286892

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	91.00
2	Tetradecanamide	83608	000638-58-4	90.00
3	Dodecanamide	60439	001120-16-7	86.00
4	Nonanamide	29478	001120-07-6	78.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	78.00

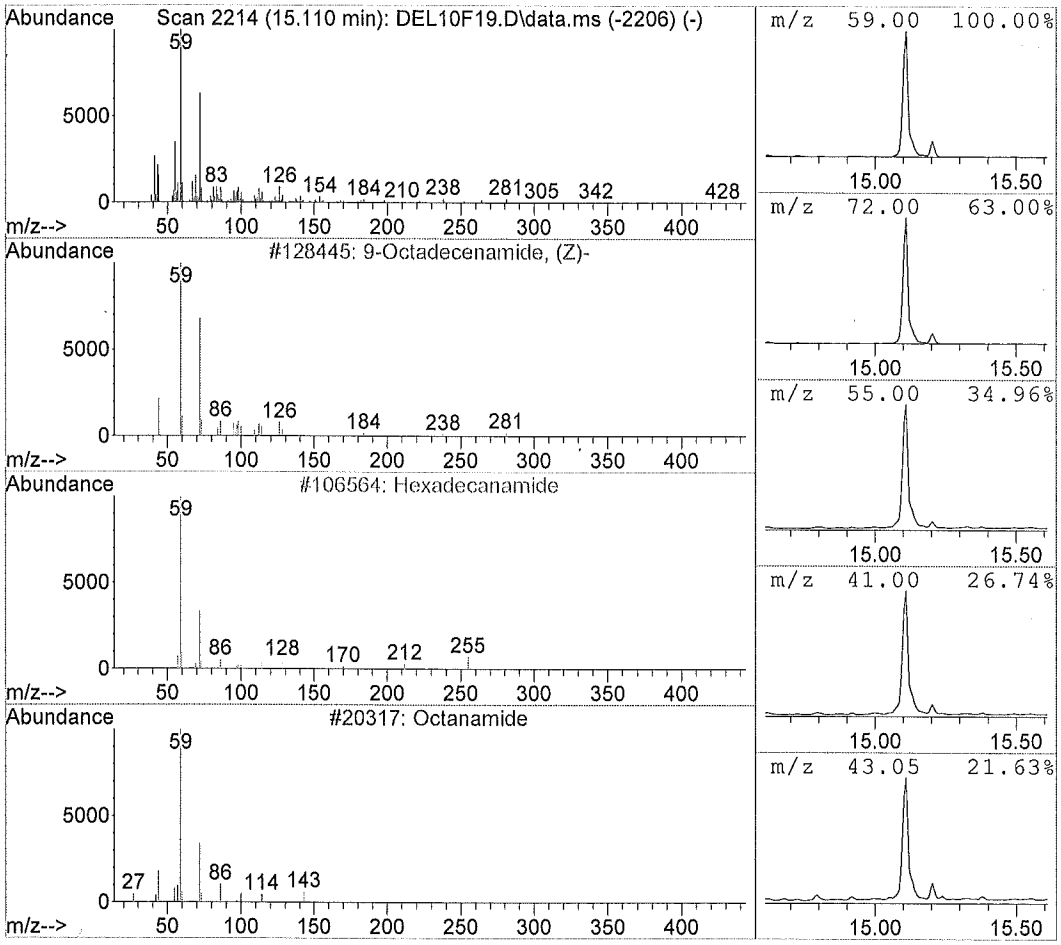


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL10F19.D Vial: 9
Acq On : 06/22/2015 18:07 Operator: DJC
Sample : 1515725019 F9M97 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.11	46.78 ug/ml	14703557	Chrysene-d12	6286892

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Hexadecanamide	106564	000629-54-9	72.00
3	Octanamide	20317	000629-01-6	59.00
4	Tetradecanamide	83609	000638-58-4	56.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	50.00



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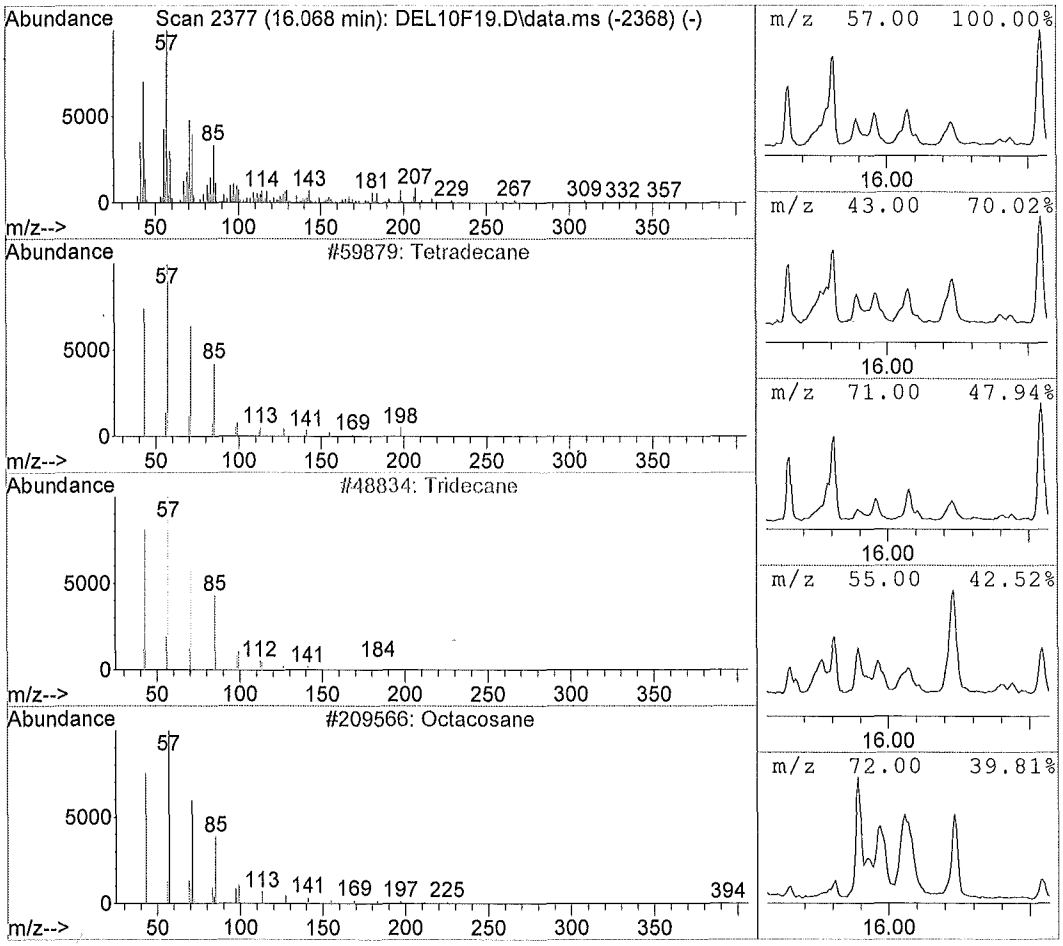
Acq On : 06/22/2015 18:07 Operator: DJC
Sample : 1515725019 F9M97 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.07	2.20 ug/ml	690640	Chrysene-d12	6286892

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecane	59879	000629-59-4	95.00
2	Tridecane	48834	000629-50-5	86.00
3	Octacosane	209566	000630-02-4	50.00
4	Tridecane, 1-iodo-	152416	035599-77-0	46.00
5	Heptacosane, 1-chloro-	217413	062016-79-9	45.00

SA



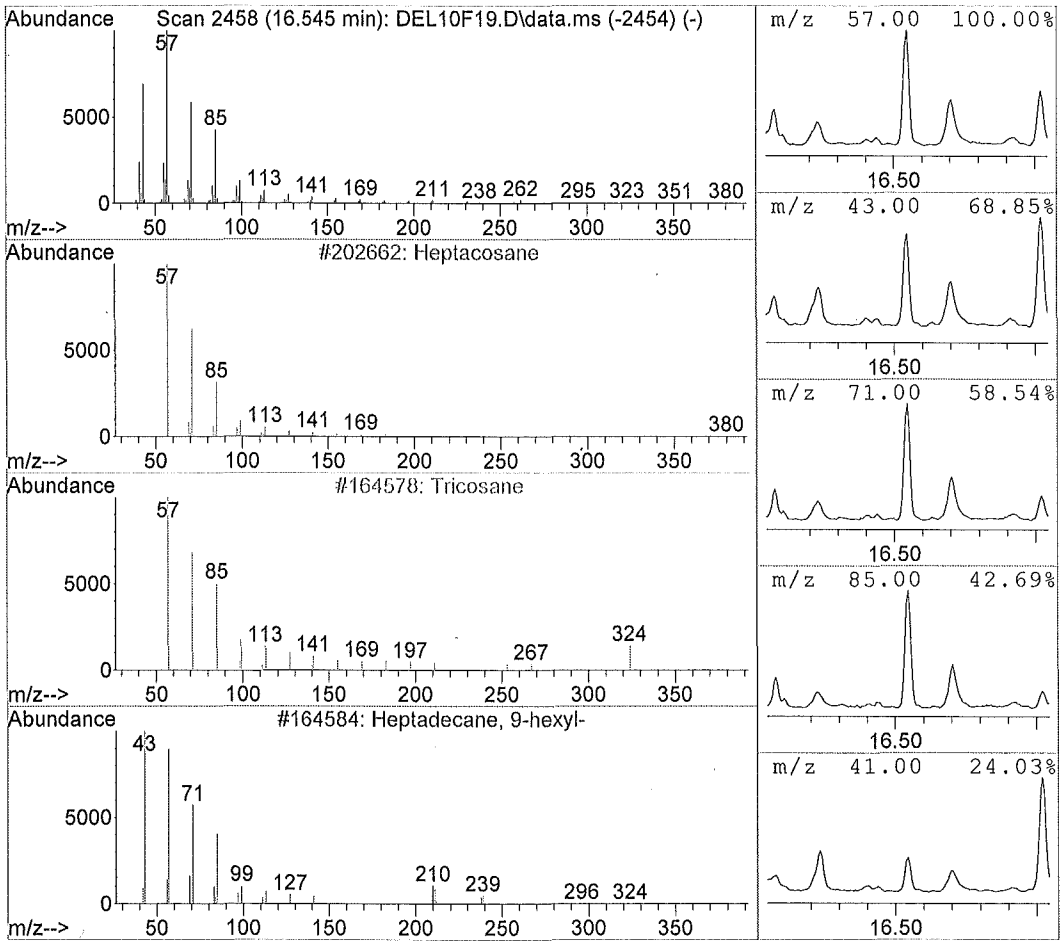
Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL10F19.D Vial: 9
Acq On : 06/22/2015 18:07 Operator: DJC
Sample : 1515725019 F9M97 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.54	3.27 ug/ml	1027509	Chrysene-d12	6286892

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	98.00
2	Tricosane	164578	000638-67-5	94.00
3	Heptadecane, 9-hexyl-	164584	055124-79-3	93.00
4	Eicosane, 7-hexyl-	194499	055333-99-8	90.00
5	Tetracosane	175557	000646-31-1	90.00

SA

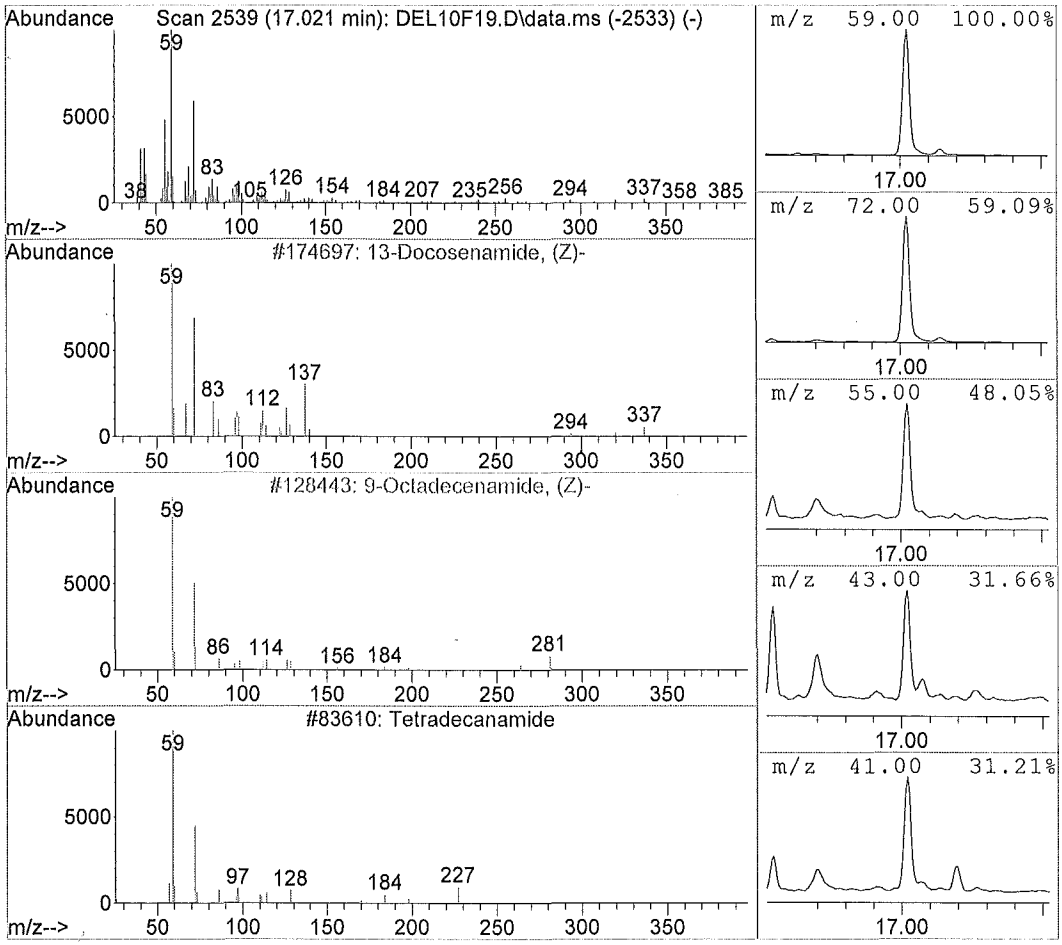


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL10F19.D Vial: 9
Acq On : 06/22/2015 18:07 Operator: DJC
Sample : 1515725019 F9M97 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.02	12.96 ug/ml	3207957	Perylene-d12	4951159

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174697	000112-84-5	93.00
2	9-Octadecenamide, (Z)-	128443	000301-02-0	87.00
3	Tetradecanamide	83610	000638-58-4	64.00
4	Octanamide	20317	000629-01-6	59.00
5	Hexadecanamide	106564	000629-54-9	59.00



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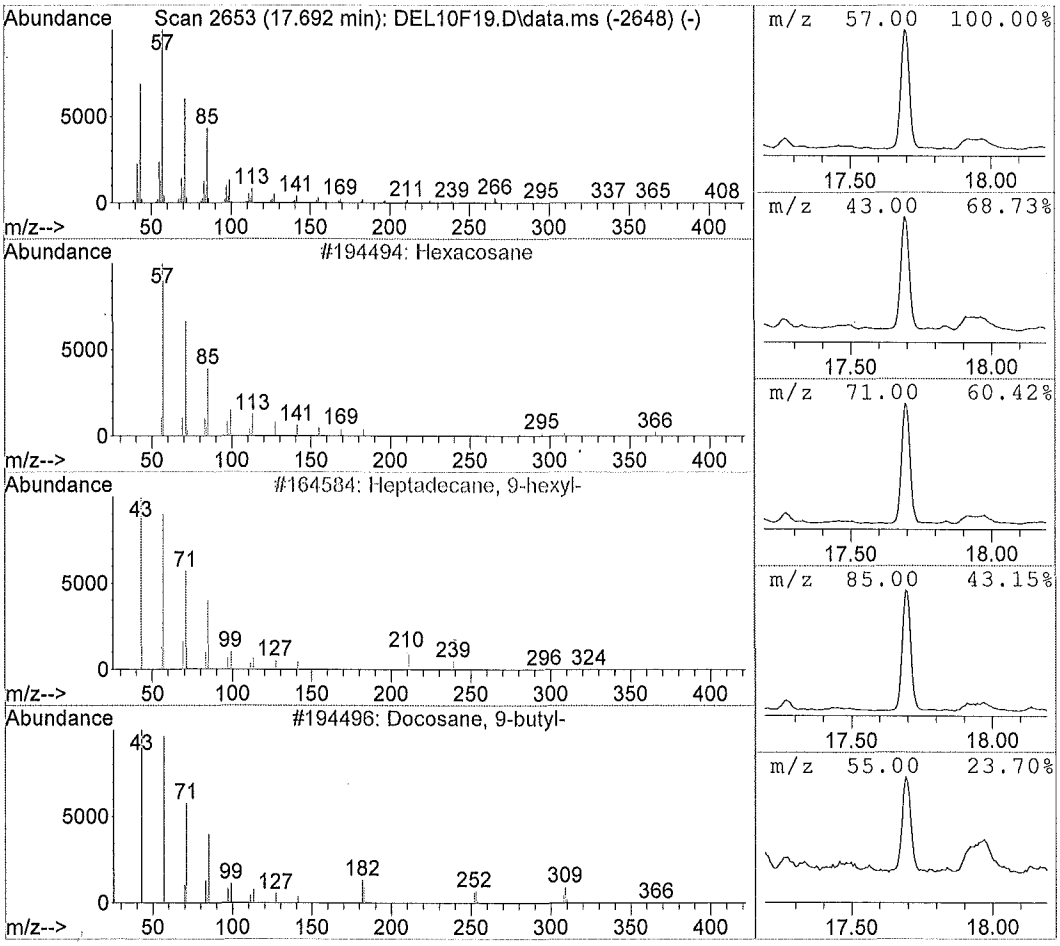
Acq On : 06/22/2015 18:07 Operator: DJC
Sample : 1515725019 F9M97 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.69	6.80 ug/ml	1683787	Perylene-d12	4951159

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexacosane	194494	000630-01-3	98.00
2	Heptadecane, 9-hexyl-	164584	055124-79-3	94.00
3	Docosane, 9-butyl-	194496	055282-14-9	94.00
4	Pentadecane, 8-hexyl-	141433	013475-75-7	94.00
5	Docosane, 11-butyl-	194500	013475-76-8	94.00

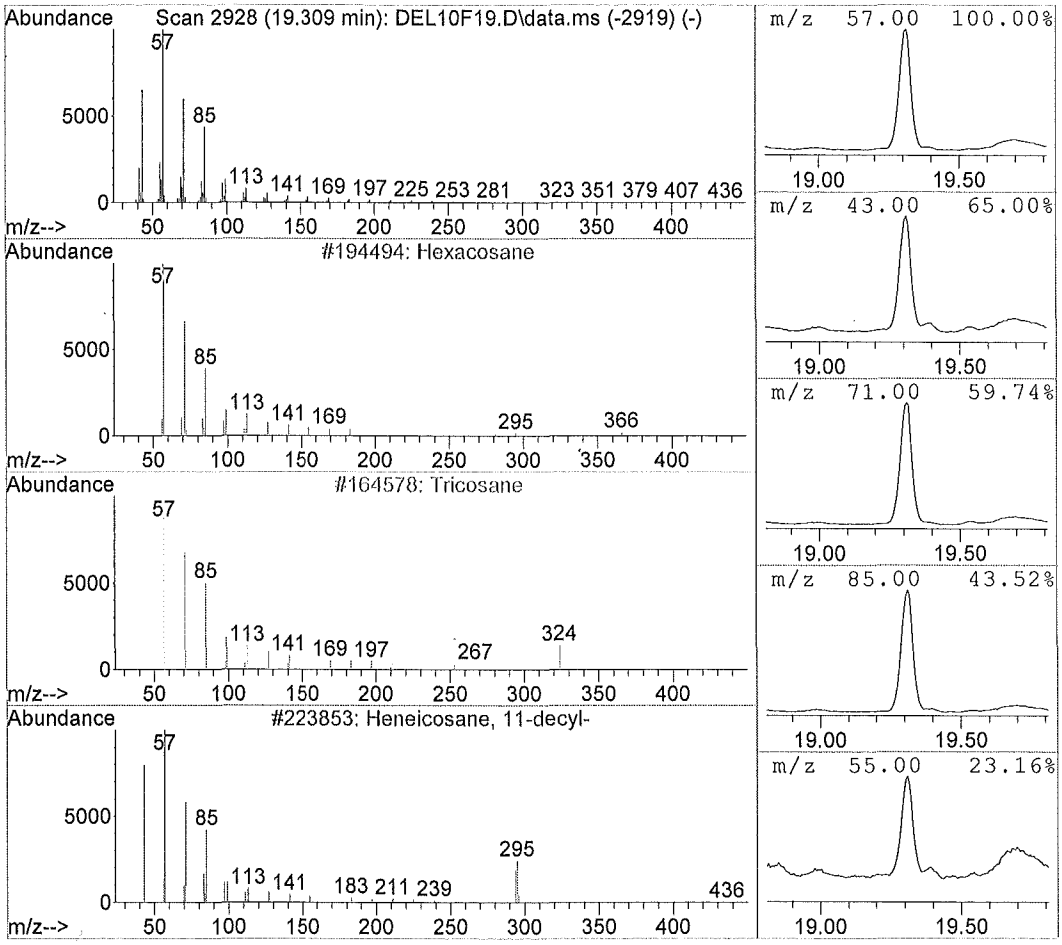


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL10F19.D Vial: 9
Acq On : 06/22/2015 18:07 Operator: DJC
Sample : 1515725019 F9M97 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.31	9.04 ug/ml	2238778	Perylene-d12	4951159

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexacosane	194494	000630-01-3	97.00
2	Tricosane	164578	000638-67-5	95.00
3	Heneicosane, 11-decyl-	223853	055320-06-4	95.00
4	Heneicosane, 11-pentyl-	194505	014739-72-1	95.00
5	Docosane, 11-butyl-	194500	013475-76-8	93.00

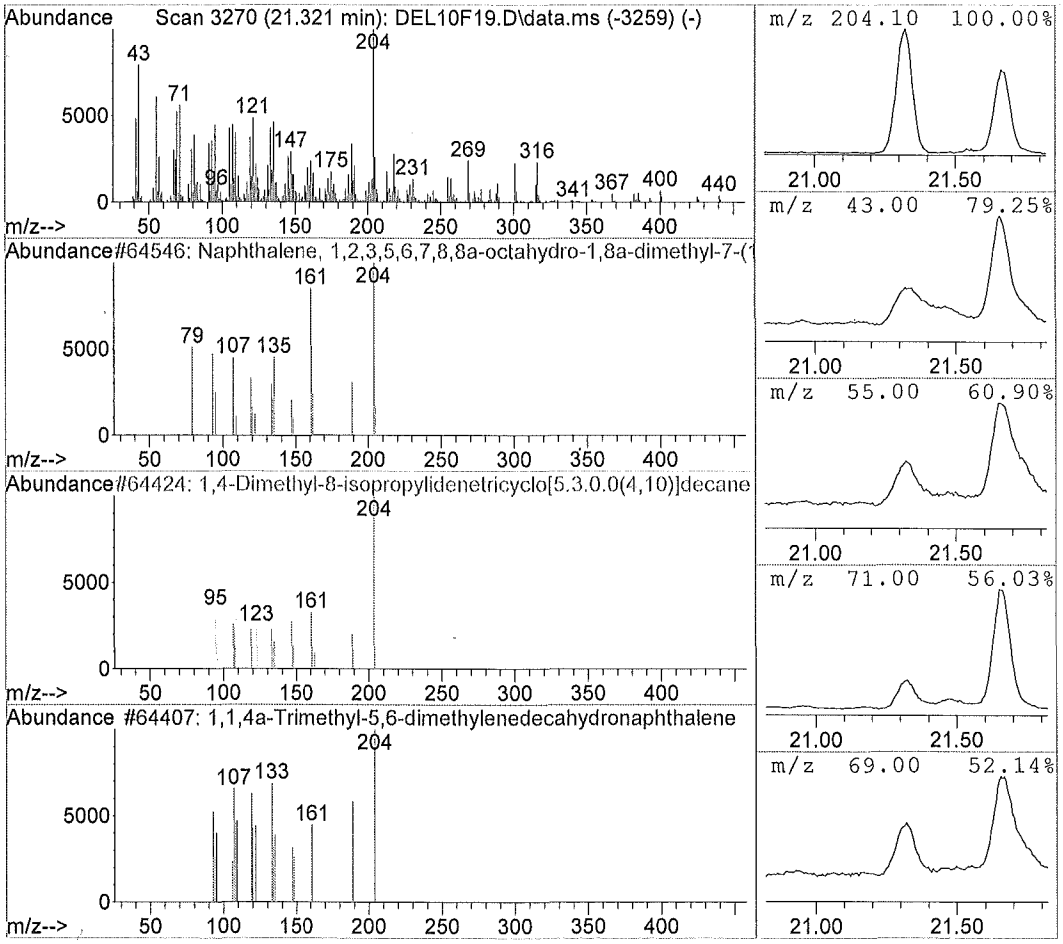


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL10F19.D Vial: 9
Acq On : 06/22/2015 18:07 Operator: DJC
Sample : 1515725019 F9M97 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.32	9.11 ug/ml	2256261	Perylene-d12	4951159

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	70.00
2	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	64.00
3	1,1,4a-Trimethyl-5,6-dimethylenedec	64407	1000193-60-8	58.00
4	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	58.00
5	2H-Cyclopentacyclooctene, 4,5,6,7,8	64452	1000221-85-8	43.00



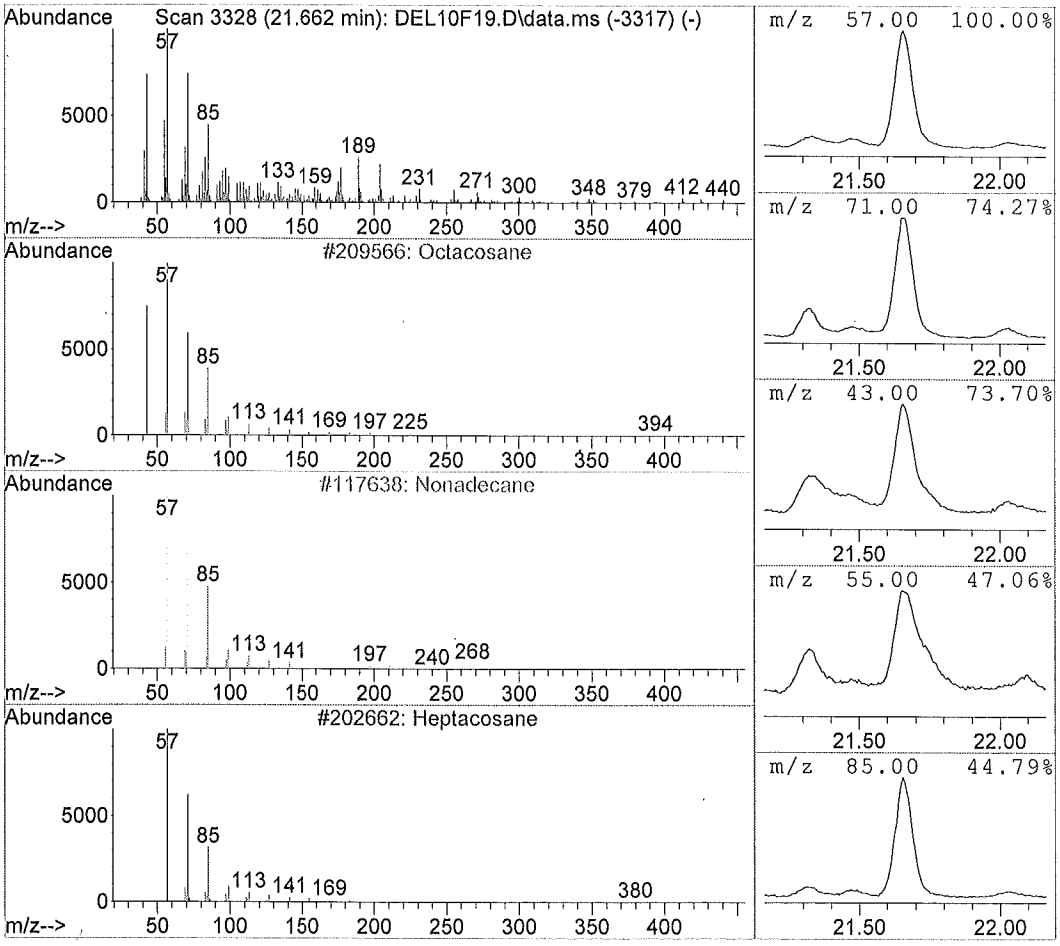
Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL10F19.D Vial: 9
Acq On : 06/22/2015 18:07 Operator: DJC
Sample : 1515725019 F9M97 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.66	21.17 ug/ml	5240409	Perylene-d12	4951159

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octacosane	209566	000630-02-4	96.00
2	Nonadecane	117638	000629-92-5	90.00
3	Heptacosane	202662	000593-49-7	90.00
4	Heptadecane	94344	000629-78-7	78.00
5	Heptacosane, 1-chloro-	217413	062016-79-9	64.00

SA

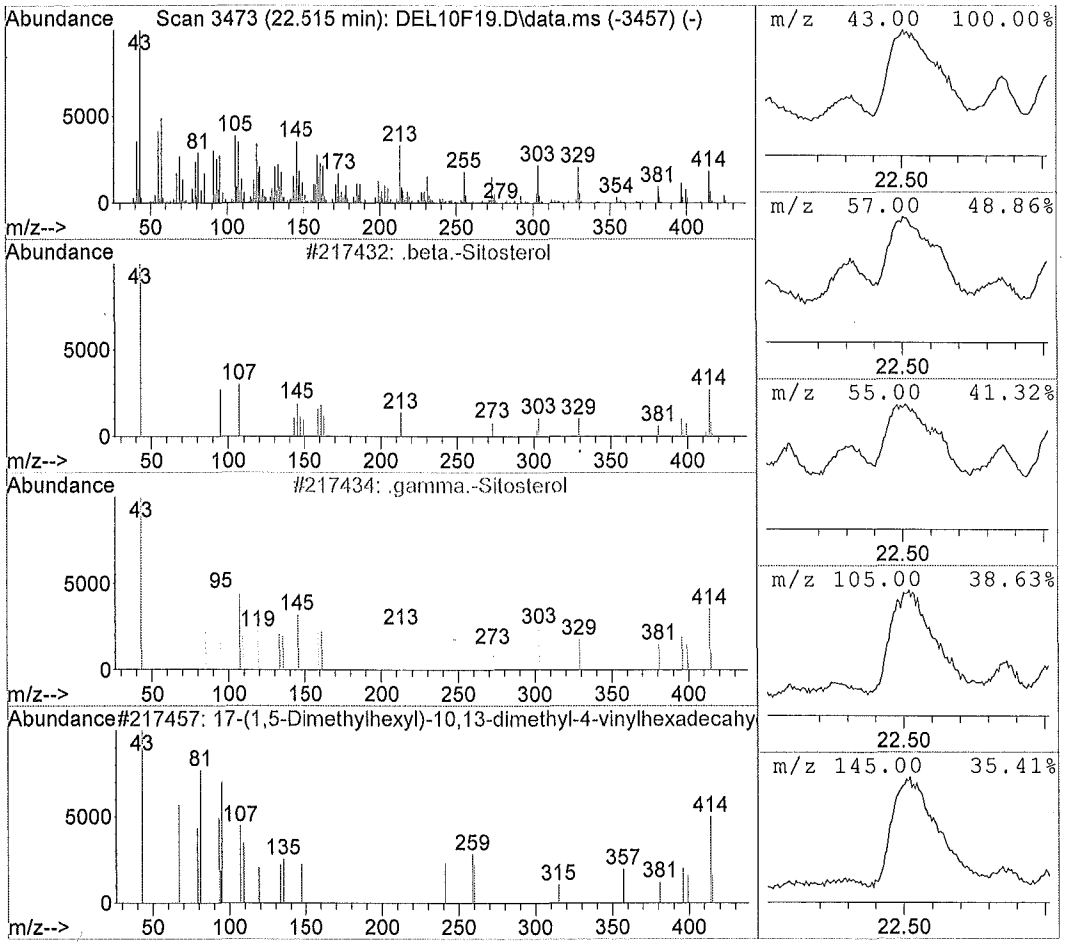


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL10F19.D Vial: 9
Acq On : 06/22/2015 18:07 Operator: DJC
Sample : 1515725019 F9M97 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.51	15.37 ug/ml	3804348	Perylene-d12	4951159

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	.beta.-Sitosterol	217432	000083-46-5	97.00
2	.gamma.-Sitosterol	217434	000083-47-6	95.00
3	17-(1,5-Dimethylhexyl)-10,13-dimeth	217457	1000210-86-9	25.00
4	Cholest-7-en-3-ol, 4,4-dimethyl-, (	217451	006384-28-7	11.00
5	.beta.-d-Lyxofuranoside, phenyl, cy	149247	128902-53-4	9.00

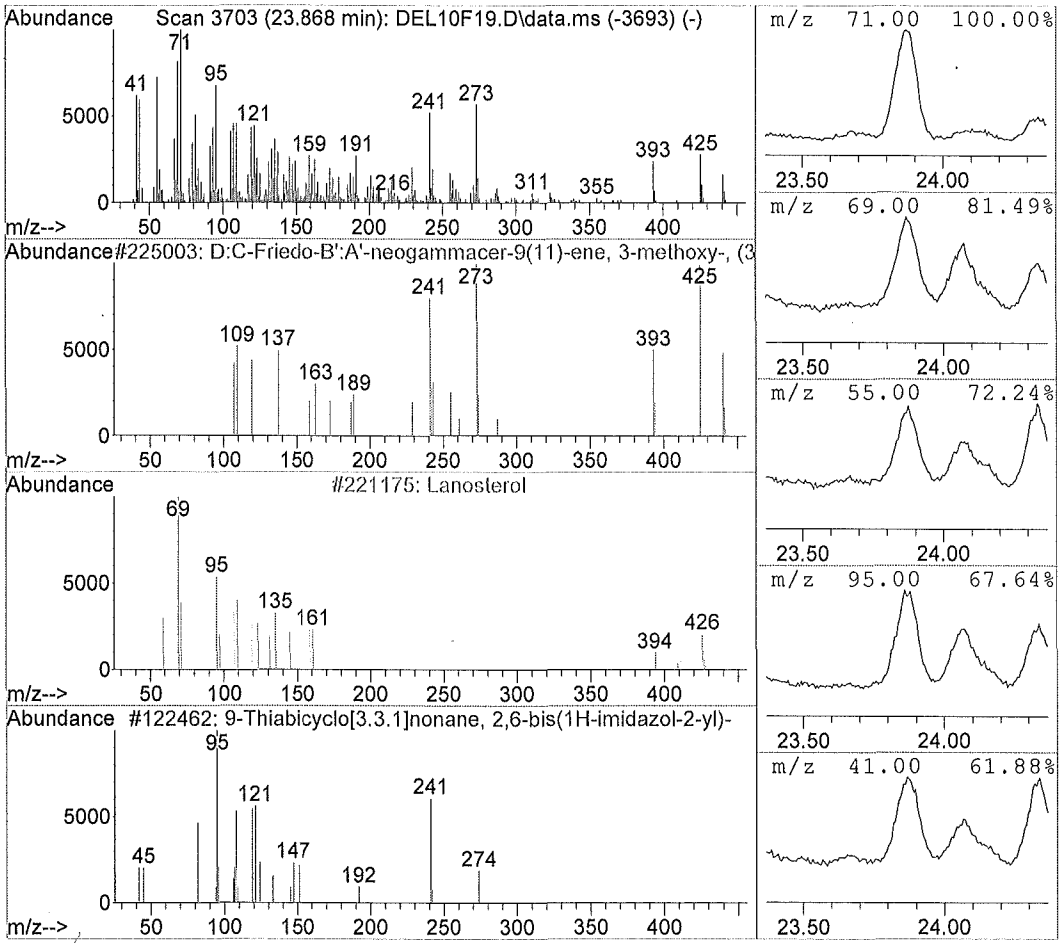


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL10F19.D Vial: 9
Acq On : 06/22/2015 18:07 Operator: DJC
Sample : 1515725019 F9M97 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.87	7.12 ug/ml	1763237	Perylene-d12	4951159

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	D:C-Friedo-B':A'-neogammacer-9(11)-	225003	004555-56-0	91.00
2	Lanosterol	221175	000079-63-0	70.00
3	9-Thiabicyclo[3.3.1]nonane, 2,6-bis	122462	1000141-52-1	41.00
4	9,19-Cyclolanost-25-en-3-ol, 24-met	225002	000511-61-5	38.00
5	1-Naphthalenepropanol, .alpha.-ethe	151480	000515-03-7	25.00



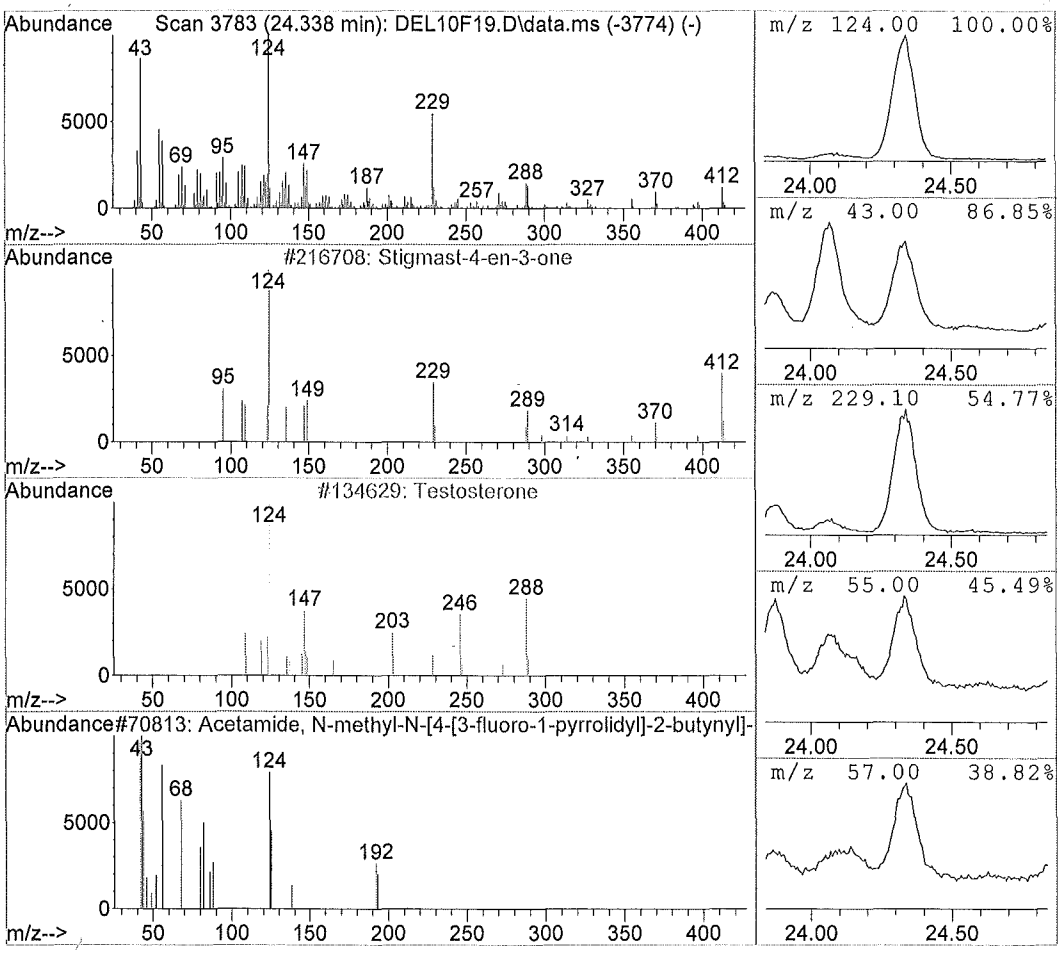
: 88974

Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL10F19.D Vial: 9
Acq On : 06/22/2015 18:07 Operator: DJC
Sample : 1515725019 F9M97 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.34	8.05 ug/ml	1991767	Perylene-d12	4951159

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmast-4-en-3-one	216708	001058-61-3	99.00
2	Testosterone	134629	000058-22-0	87.00
3	Acetamide, N-methyl-N-[4-[3-fluoro-	70813	1000117-63-0	38.00
4	Testosterone cypionate	216680	000058-20-8	38.00
5	Androst-4-en-3-one, 17-hydroxy-, (1	134675	000604-39-7	35.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M98

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725020

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DEL11F20

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/22/2015

GPC Cleanup: (Y/N) Y pH: 6.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	200	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M98

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725020

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DEL11F20

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/22/2015

GPC Cleanup: (Y/N) Y pH: 6.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	220	
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M98

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725020
Sample wt/vol: 30.4 (g/mL) g Lab File ID: DEL11F20
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 15. Decanted: (Y/N) N Date Received: 06/05/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/22/2015
GPC Cleanup: (Y/N) Y pH: 6.8 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Propanone, 1-hydroxy-	2.18	250	J
02		Unknown 1,2-Ethanediol	2.39	180	J
03		Unknown 2-Pentanone, 4-hydroxy-	3.35	640	JB
04		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.57	13000	JB
05		Unknown 2-Nonanone	4.12	320	JB
06		Unknown Sulfurous acid, isohexyl hexyl ester	4.23	500	J
07		Unknown 1H-Pyrrole-2,5-dione	4.32	540	J
08		Unknown 4H-Imidazol-4-one, 2-amino-1,5-dihydro-	5.04	210	J
09		Unknown Ethanone, 1-oxiranyl-	5.15	2400	J
10	1000336-31-4	Methyl 13-methyltetradecanoate	11.36	240	JN
11	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	12.37	180	JN
12	112-39-0	Hexadecanoic acid, methyl ester	12.45	400	JN
13	57-10-3	n-Hexadecanoic acid	12.70	200	JN
14	56554-46-2	12-Octadecenoic acid, methyl ester	13.72	210	JN
15	629-54-9	Hexadecanamide	14.19	350	JNB
16	301-02-0	9-Octadecenamide, (Z)-	15.11	3200	JNB
17	112-84-5	13-Docosenamide, (Z)-	17.02	840	JN
18		Unknown Phthalic anhydride	18.67	190	J
19	83-46-5	.beta.-Sitosterol	22.45	590	JN
20	1058-61-3	Stigmast-4-en-3-one	24.33	270	JN
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	1800	J

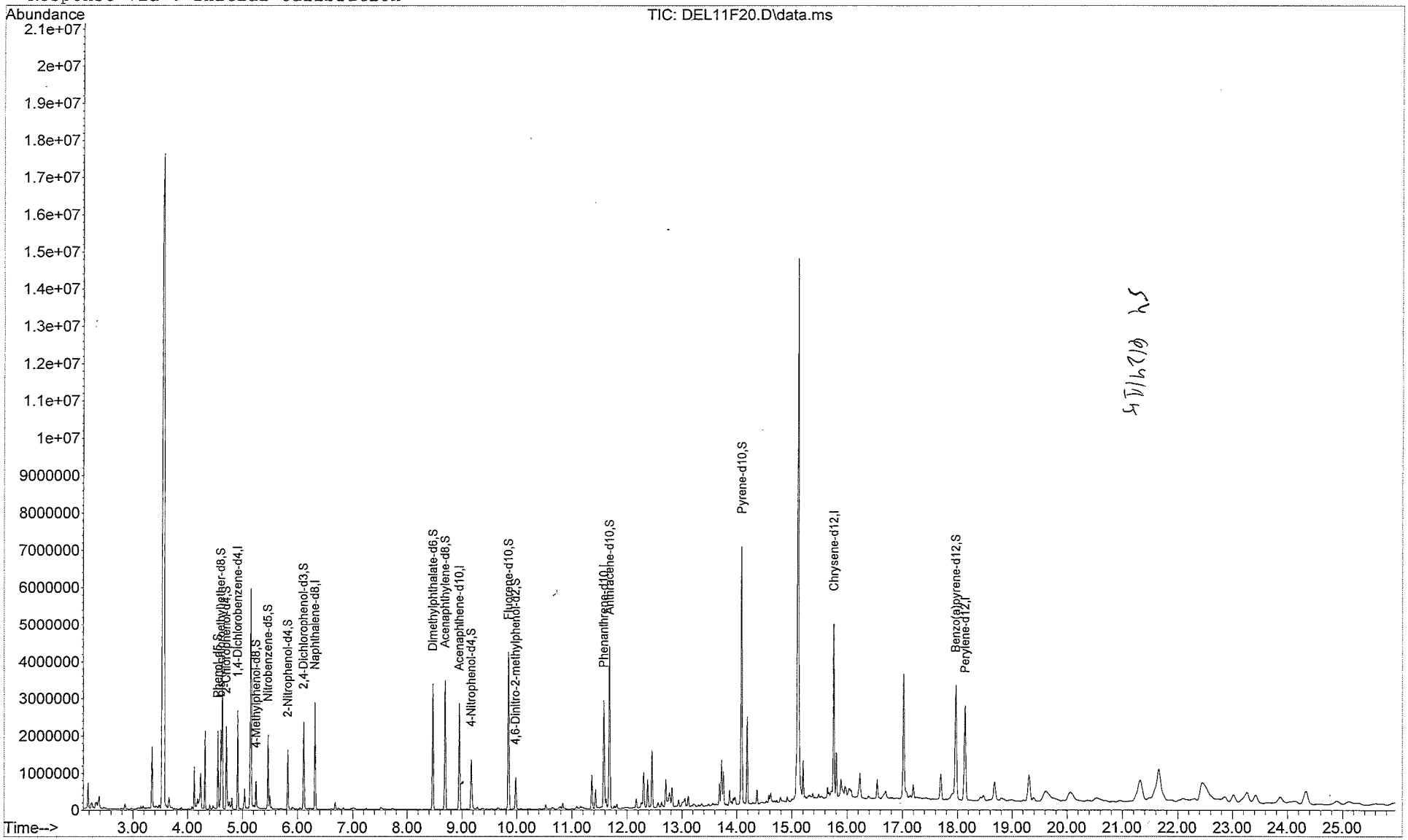
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL11F20.D Vial: 10
Acq On : 06/22/2015 18:41 Operator: DJC
Sample : 1515725020 F9M98 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 24 12:09:38 2015 Results File: DSOM01D6.RES

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 23 08:43:28 2015
Response via : Initial Calibration



DEL11F20.D DSOM01D6.M Wed Jun 24 12:12:46 2015 Page 3

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL11F20.D Vial: 10
Acq On : 06/22/2015 18:41 Operator: DJC
Sample : 1515725020 F9M98 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 24 12:09:38 2015 Results File: DSOM01D6.RES

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 23 08:43:28 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.91	152	425758	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1451782	20.00 ug/ml
33) Acenaphthene-d10	8.95	164	934187	20.00 ug/ml
59) Phenanthrene-d10	11.57	188	1715470	20.00 ug/ml
73) Chrysene-d12	15.76	240	2143528	20.00 ug/ml
81) Perylene-d12	18.14	264	1907742	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.55	99	658148	23.573ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	411898	19.710ug/mL
7) 2-Chlorophenol-d4	4.70	132	599282	22.819ug/ml
13) 4-Methylphenol-d8	5.25	113	166746	8.039ug/mL
17) Nitrobenzene-d5	5.46	128	291631	24.400ug/ml
21) 2-Nitrophenol-d4	5.82	143	338425	24.848ug/mL
25) 2,4-Dichlorophenol-d3	6.11	165	590334	25.233ug/mL
28) 4-Chloroaniline-d4	6.41	131	1668	0.070ug/mL
42) Dimethylphthalate-d6	8.47	166	1875768	32.206ug/mL
45) Acenaphthylene-d8	8.69	160	2103250	27.474ug/mL
50) 4-Nitrophenol-d4	9.17	143	349755	32.172ug/mL
57) Fluorene-d10	9.85	176	1661013	32.125ug/mL
61) 4,6-Dinitro-2-methylphenol	9.98	200	203711	18.430ug/mL
69) Anthracene-d10	11.68	188	2501300	28.008ug/mL
75) Pyrene-d10	14.09	212	2949286	33.591ug/mL
86) Benzo(a)pyrene-d12	17.97	264	2325836	26.363ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

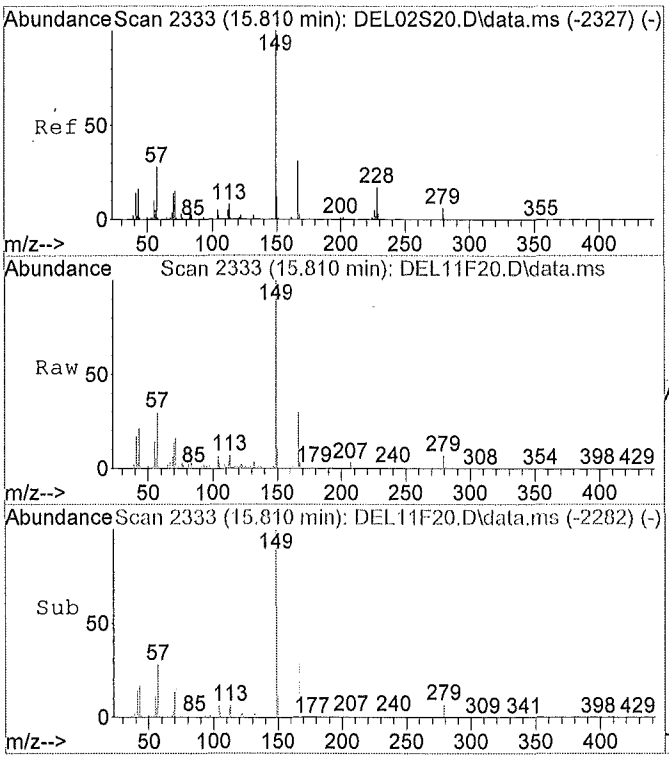
Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL11F20.D Vial: 10
Acq On : 06/22/2015 18:41 Operator: DJC
Sample : 1515725020 F9M98 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 24 12:09:38 2015 Results File: DSOM01D6.RES

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 23 08:43:28 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) Acenaphthylene	0.00	152		Not Detected	
46) 3-Nitroaniline	0.00	138		Not Detected	
47) Acenaphthene	0.00	153		Not Detected	
48) 2,4-Dinitrophenol	0.00	184		Not Detected	
49) 4-Nitrophenol	0.00	109		Not Detected	
51) Dibenzofuran	0.00	168		Not Detected	
52) 2,4-Dinitrotoluene	0.00	165		Not Detected	
53) 2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54) Diethylphthalate	0.00	149		Not Detected	
55) 4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56) Fluorene	0.00	166		Not Detected	
58) 4-Nitroaniline	0.00	138		Not Detected	
60) 4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62) N-Nitrosodiphenylamine	0.00	169		Not Detected	
63) 4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64) Hexachlorobenzene	0.00	284		Not Detected	
65) Atrazine	0.00	200		Not Detected	
66) Pentachlorophenol	0.00	266		Not Detected	
67) Phenanthrene	0.00	178		Not Detected	
68) Anthracene	0.00	178		Not Detected	
70) Carbazole	0.00	167		Not Detected	
71) Di-n-butylphthalate	0.00	149		Not Detected	
72) Fluoranthene	0.00	202		Not Detected	
74) Pyrene	0.00	202		Not Detected	
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	0.00	228		Not Detected	
79) Chrysene	0.00	228		Not Detected	
80) Bis-(2-ethylhexyl)phthalat	15.81	149	409008	5.585ug/ml	98
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	0.00	252		Not Detected	
84) Benzo(k)fluoranthene	0.00	252		Not Detected	
85) Benzo(a)pyrene	0.00	252		Not Detected	
87) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89) Benzo(g,h,i)perylene	0.00	276		Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

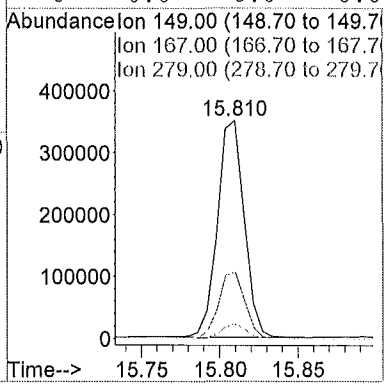
000379



#80
Bis-(2-ethylhexyl)phthalate
Concen: 5.58 ug/ml
RT: 15.81 min Scan# 2333
Delta R.T. 0.00 min
Lab File: DEL11F20.D
Acq: 06/22/2015 18:41

Tgt Ion:149 Resp: 409008

Ion	Ratio	Lower	Upper
149	100		
167	30.1	22.0	40.8
279	6.4	5.0	9.2
0	0.0	0.0	0.0



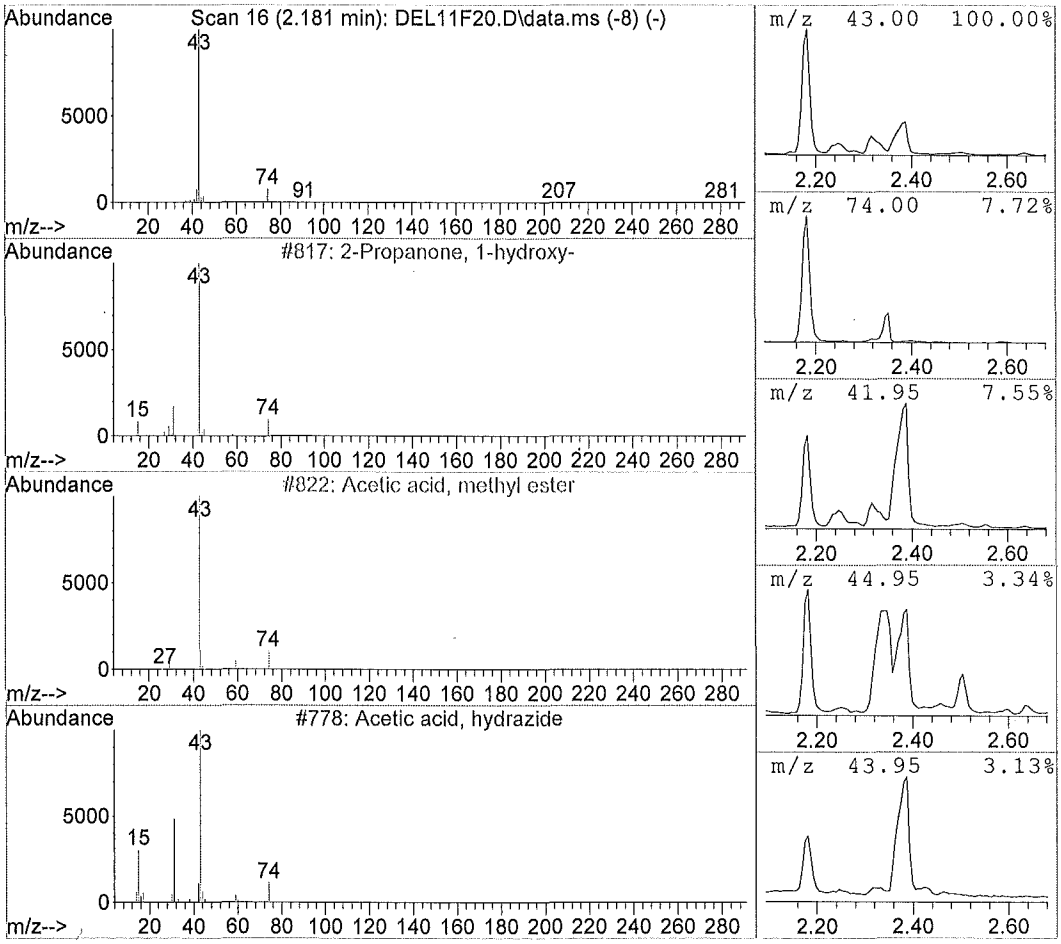
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL11F20.D Vial: 10
Acq On : 06/22/2015 18:41 Operator: DJC
Sample : 1515725020 F9M98 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.18	6.34 ug/ml	815214	1,4-Dichlorobenzene-d4	2570962

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-hydroxy-	817	000116-09-6	7.00
2	Acetic acid, methyl ester	822	000079-20-9	5.00
3	Acetic acid, hydrazide	778	001068-57-1	5.00
4	Hydrogen azide	70	007782-79-8	4.00
5	1-Propanol, 2-methyl-	853	000078-83-1	4.00

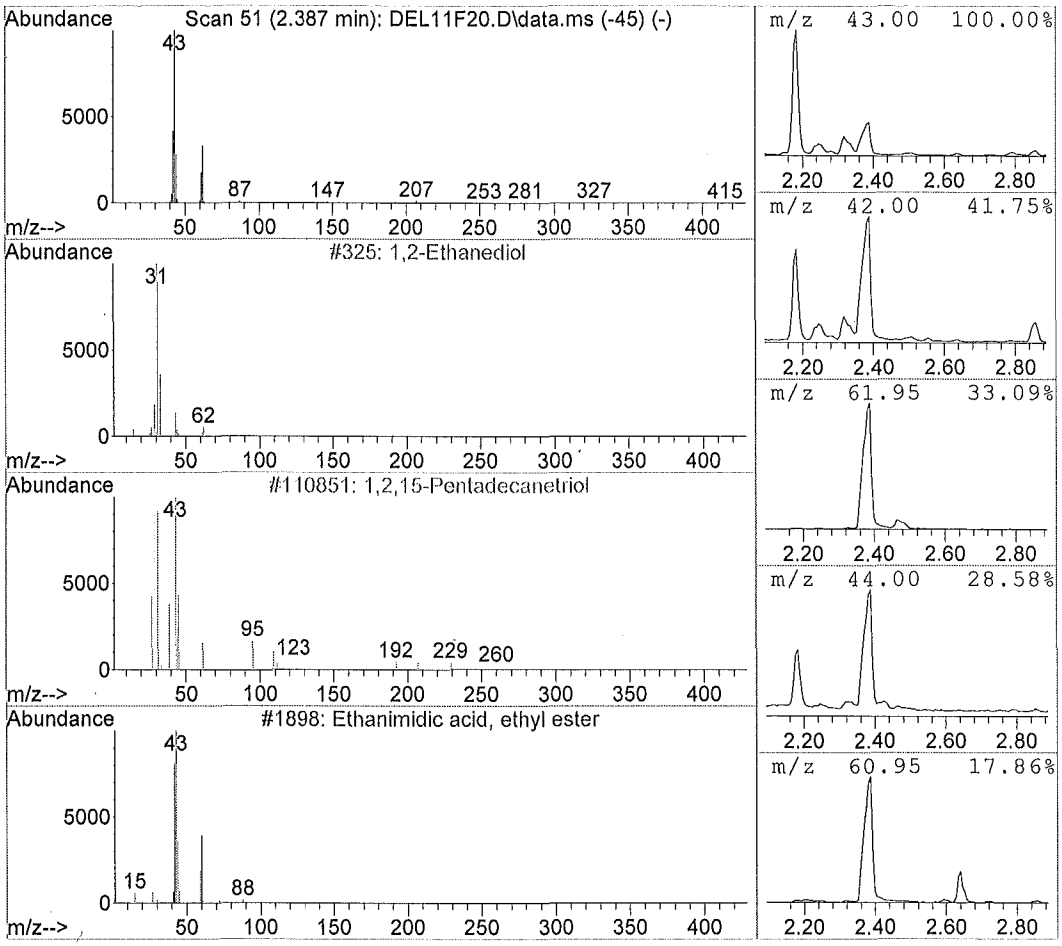


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL11F20.D Vial: 10
Acq On : 06/22/2015 18:41 Operator: DJC
Sample : 1515725020 F9M98 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.39	4.74 ug/ml	609427	1,4-Dichlorobenzene-d4	2570962

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Ethanediol	325	000107-21-1	9.00
2	1,2,15-Pentadecanetriol	110851	057289-60-8	9.00
3	Ethanimidic acid, ethyl ester	1898	001000-84-6	7.00
4	2-(5-Trifluoromethyl-pyridin-2-yl)-	78417	1000297-38-1	4.00
5	Peroxide, dimethyl	330	000690-02-8	4.00

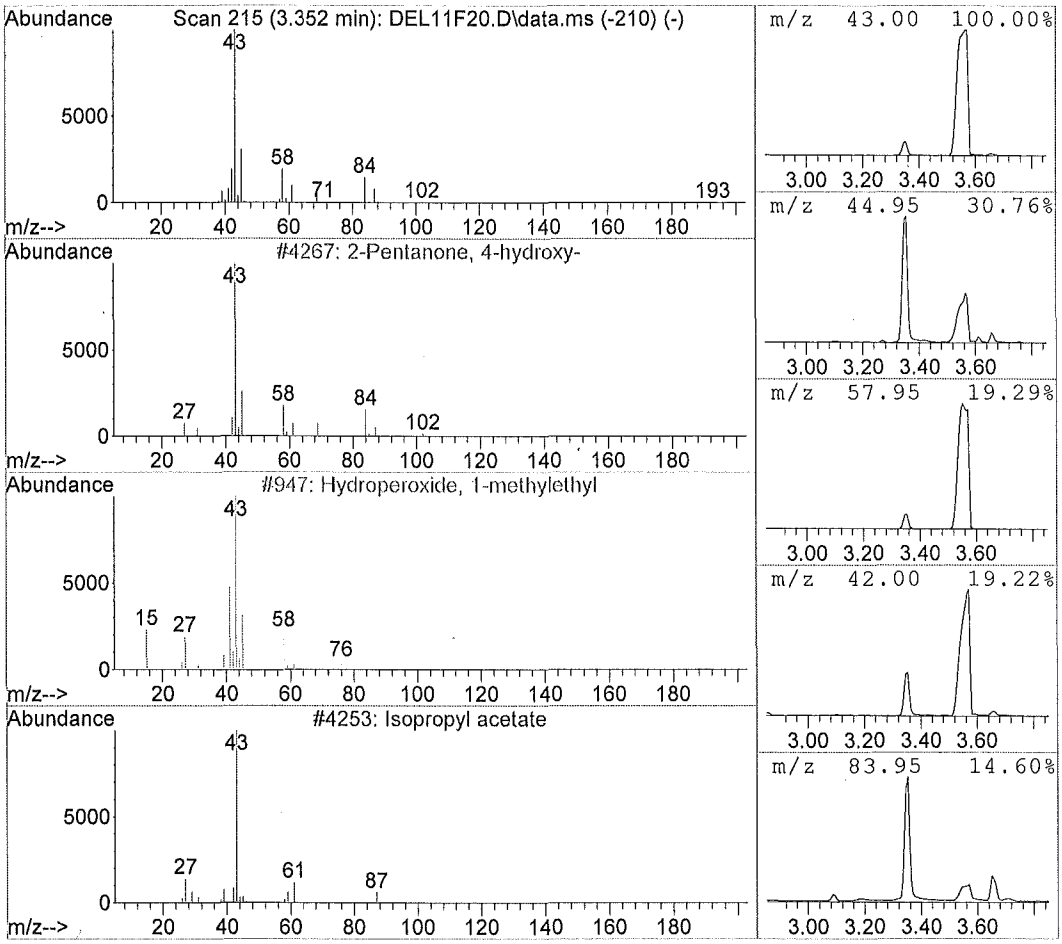


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL11F20.D Vial: 10
Acq On : 06/22/2015 18:41 Operator: DJC
Sample : 1515725020 F9M98 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.35	16.49 ug/ml	2119287	1,4-Dichlorobenzene-d4	2570962

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	40.00
2	Hydroperoxide, 1-methylethyl	947	003031-75-2	38.00
3	Isopropyl acetate	4253	000108-21-4	12.00
4	Acetone	213	000067-64-1	9.00
5	Propane, 1-(1-methylethoxy)-	4493	000627-08-7	9.00

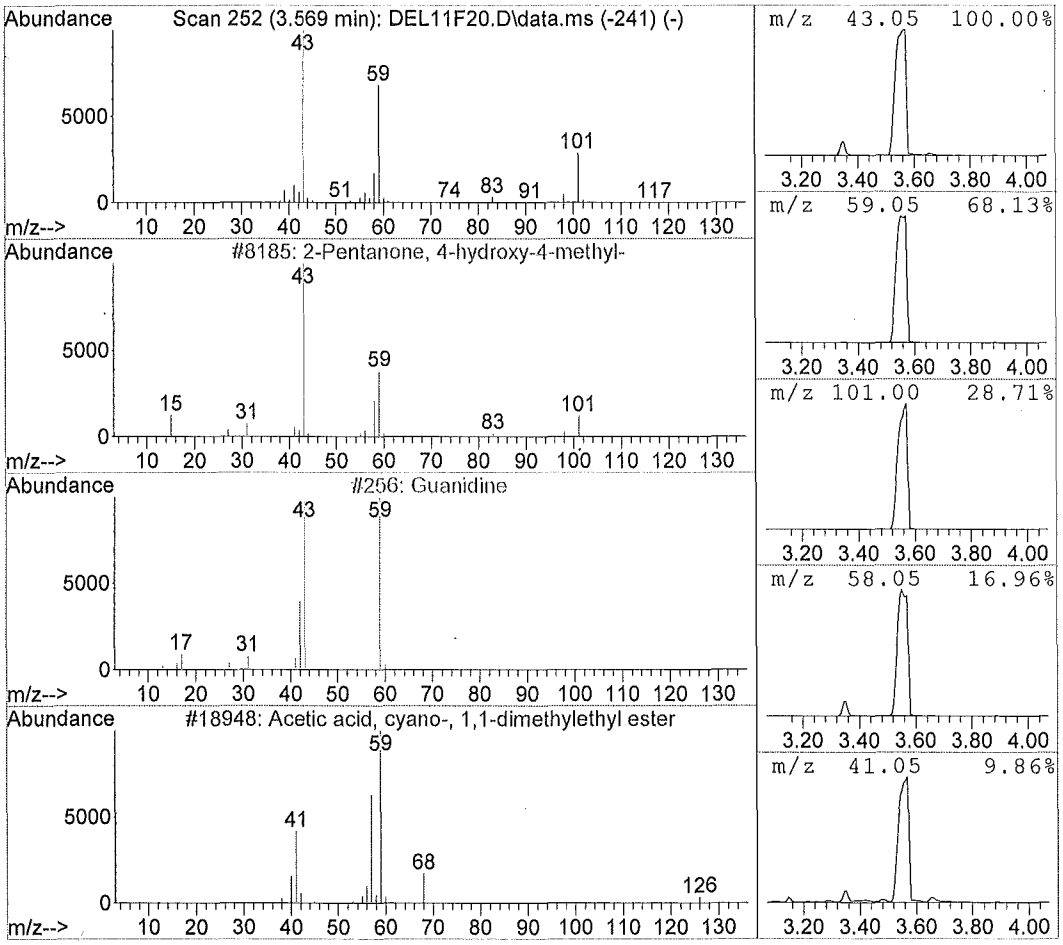


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL11F20.D Vial: 10
Acq On : 06/22/2015 18:41 Operator: DJC
Sample : 1515725020 F9M98 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.57	338.65 ug/ml	43533293	1,4-Dichlorobenzene-d4	2570962

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	50.00
2	Guanidine	256	000113-00-8	43.00
3	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	17.00
4	2-Nonanone	19930	000821-55-6	12.00
5	Acetone	214	000067-64-1	10.00

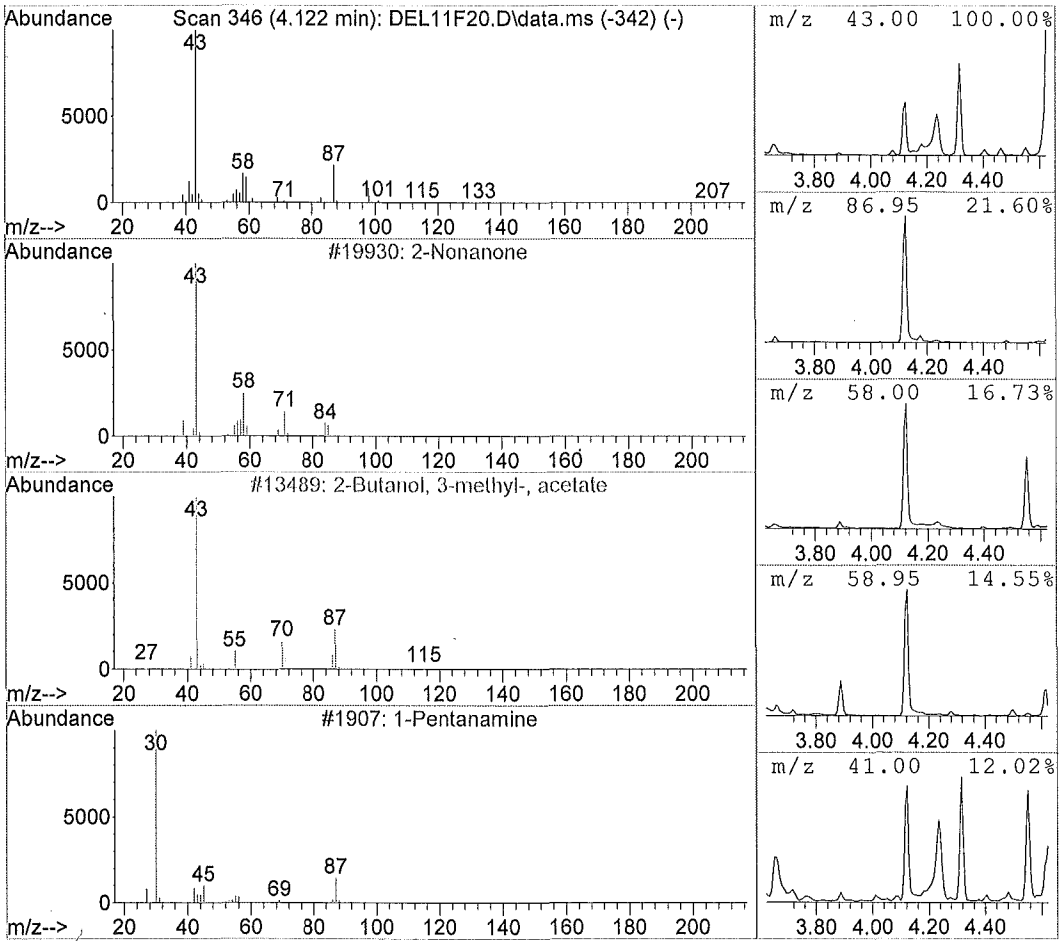


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL11F20.D Vial: 10
Acq On : 06/22/2015 18:41 Operator: DJC
Sample : 1515725020 F9M98 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.12	8.21 ug/ml	1056005	1,4-Dichlorobenzene-d4	2570962

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Nonanone	19930	000821-55-6	37.00
2	2-Butanol, 3-methyl-, acetate	13489	005343-96-4	17.00
3	1-Pentanamine	1907	000110-58-7	9.00
4	Thiocyanic acid, ethyl ester	1854	000542-90-5	9.00
5	Formamide, N-butyl-	4070	000871-71-6	9.00

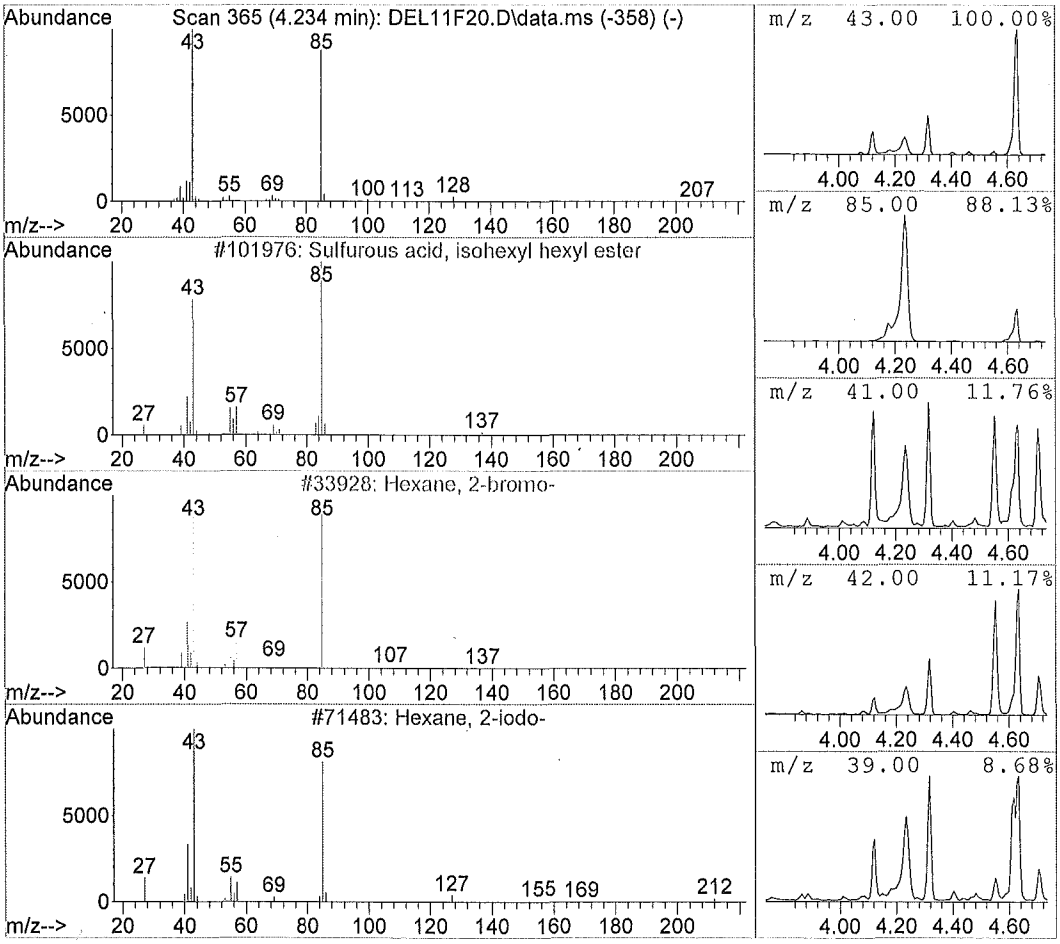


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL11F20.D Vial: 10
Acq On : 06/22/2015 18:41 Operator: DJC
Sample : 1515725020 F9M98 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.23	12.96 ug/ml	1666383	1,4-Dichlorobenzene-d4	2570962

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Sulfurous acid, isohexyl hexyl este	101976	1000309-12-8	72.00
2	Hexane, 2-bromo-	33928	003377-86-4	72.00
3	Hexane, 2-iodo-	71483	018589-27-0	56.00
4	Hexane, 3-bromo-	33925	003377-87-5	56.00
5	Hexane, 1,1'-oxybis-	50332	000112-58-3	40.00

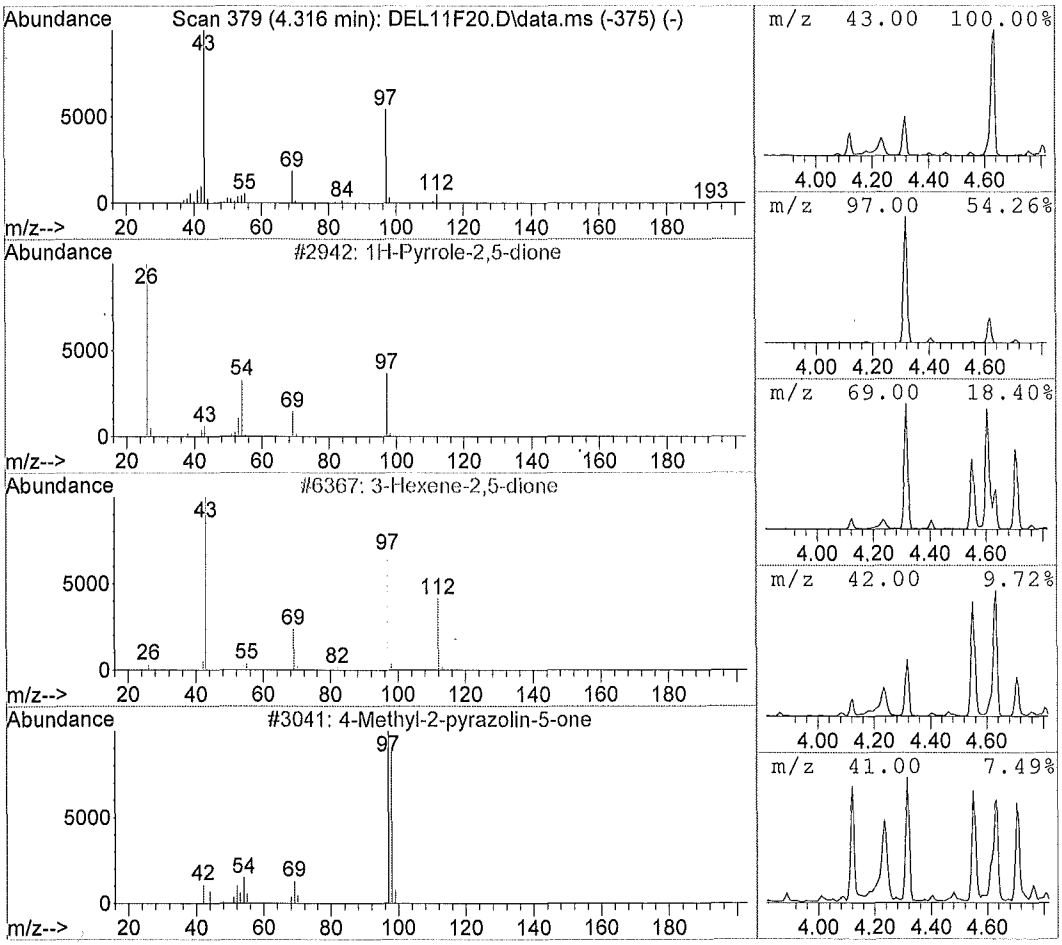


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL11F20.D Vial: 10
Acq On : 06/22/2015 18:41 Operator: DJC
Sample : 1515725020 F9M98 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.32	13.98 ug/ml	1796658	1,4-Dichlorobenzene-d4	2570962

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	38.00
2	3-Hexene-2,5-dione	6367	004436-75-3	37.00
3	4-Methyl-2-pyrazolin-5-one	3041	013315-23-6	28.00
4	5-Amino-3-methylpyrazole	2946	031230-17-8	25.00
5	1H-Pyrazol-4-amine, 3-methyl-	2952	1000338-28-2	23.00

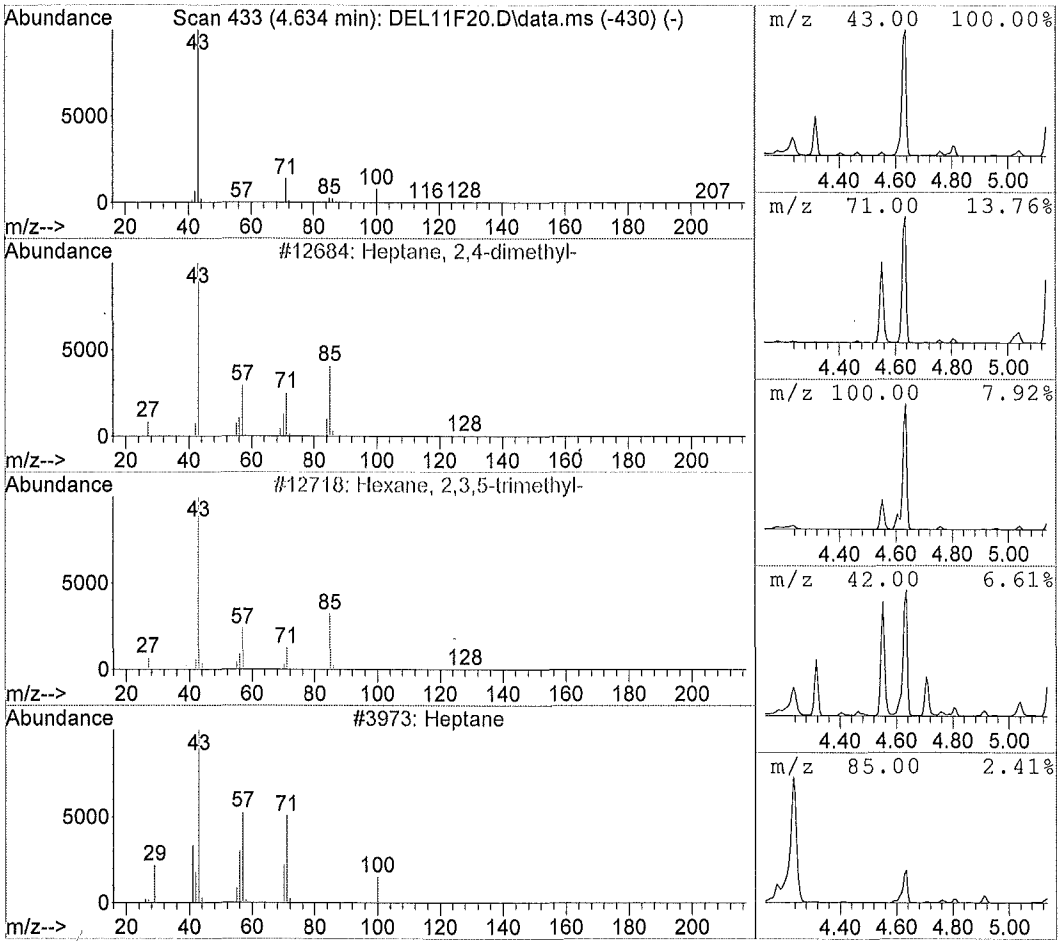


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL11F20.D Vial: 10
Acq On : 06/22/2015 18:41 Operator: DJC
Sample : 1515725020 F9M98 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.63	30.61 ug/ml	3934856	1,4-Dichlorobenzene-d4	2570962

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,4-dimethyl- BA	12684	002213-23-2	9.00
2	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	9.00
3	Heptane	3973	000142-82-5	7.00
4	2-Pentanone, 3-methyl-	3865	000565-61-7	7.00
5	1-Butanol, 2-methylene-, acetate	12273	055670-09-2	5.00

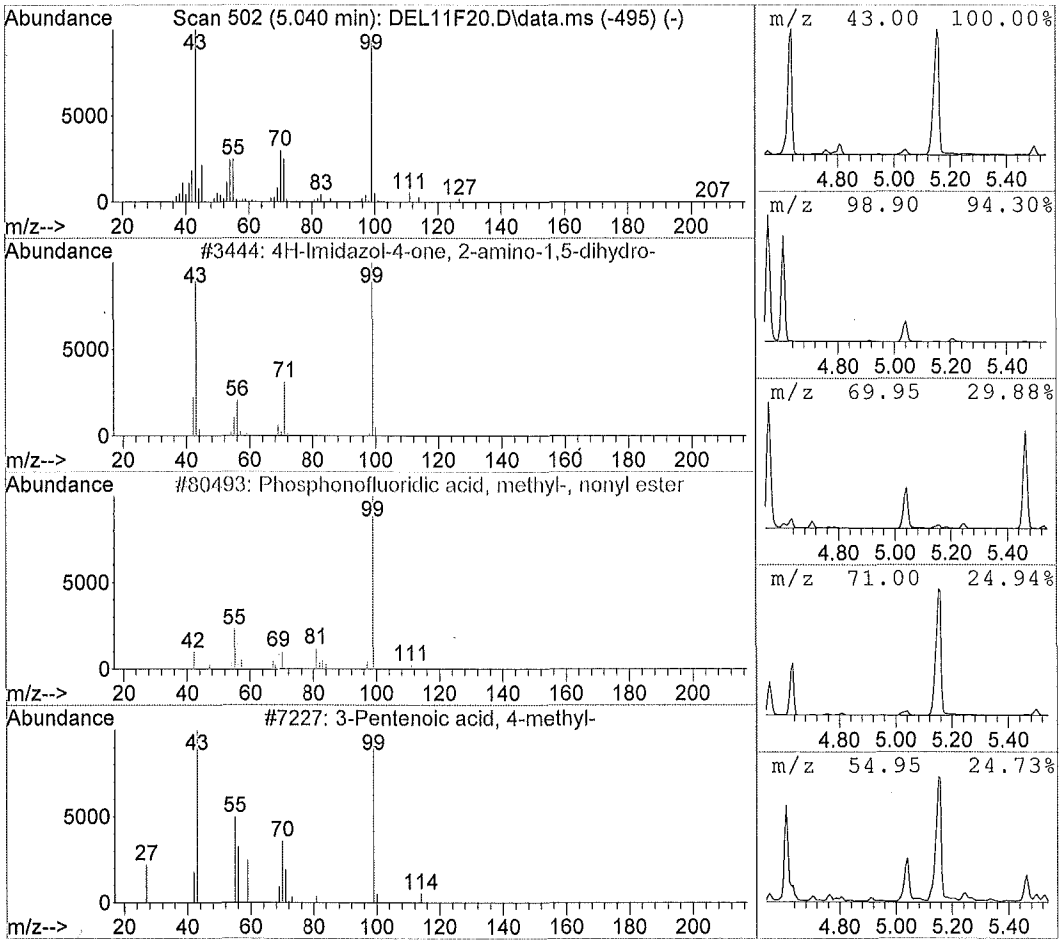


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL11F20.D Vial: 10
Acq On : 06/22/2015 18:41 Operator: DJC
Sample : 1515725020 F9M98 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.04	5.46 ug/ml	702235	1,4-Dichlorobenzene-d4	2570962

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4H-Imidazol-4-one, 2-amino-1,5-dihy	3444	000503-86-6	46.00
2	Phosphonofluoridic acid, methyl-, n	80493	211192-74-4	43.00
3	3-Pentenoic acid, 4-methyl-	7227	000504-85-8	38.00
4	4-Methylthiazole	3458	000693-95-8	38.00
5	1,3-Dioxolane, 2-(1-propenyl)-	7254	004528-26-1	38.00

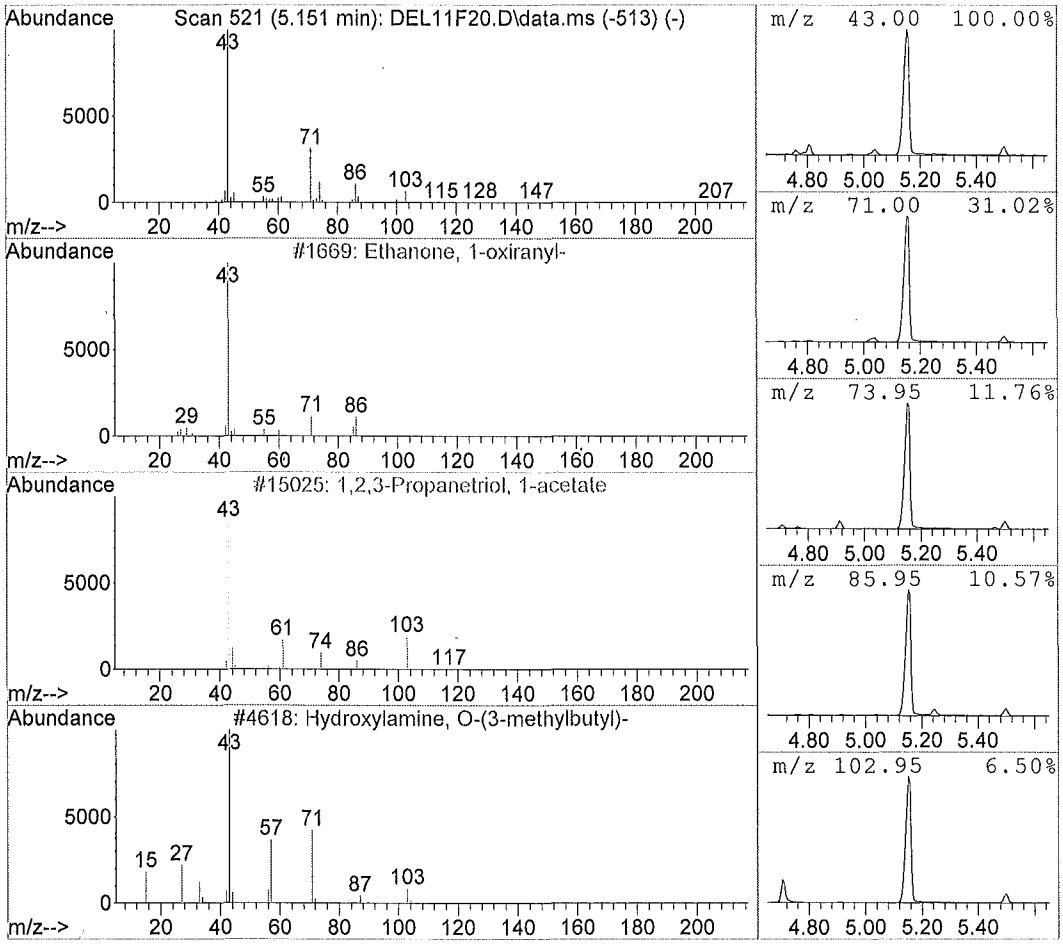


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL11F20.D Vial: 10
Acq On : 06/22/2015 18:41 Operator: DJC
Sample : 1515725020 F9M98 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.15	60.97 ug/ml	7837507	1,4-Dichlorobenzene-d4	2570962

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanone, 1-oxiranyl-	1669	004401-11-0	38.00
2	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	25.00
3	Hydroxylamine, O-(3-methylbutyl)-	4618	019411-65-5	23.00
4	2-Propanone, 1-hydroxy-	819	000116-09-6	22.00
5	2,3-Butanedione	1661	000431-03-8	22.00



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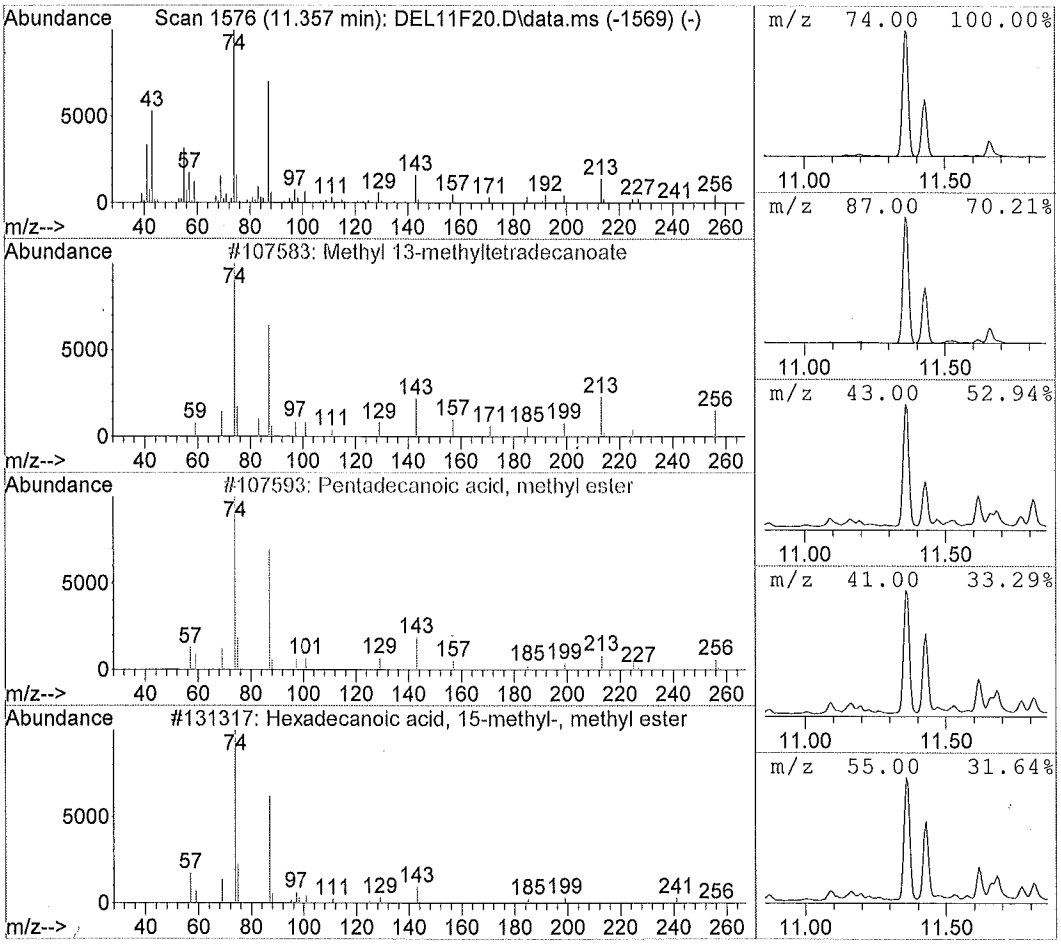
Acq On : 06/22/2015 18:41 Operator: DJC
Sample : 1515725020 F9M98 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.36	6.11 ug/ml	1284077	Phenanthrene-d10	4205182

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methyl 13-methyltetradecanoate	107583	1000336-31-4	97.00
2	Pentadecanoic acid, methyl ester	107593	007132-64-1	93.00
3	Hexadecanoic acid, 15-methyl-, meth	131317	006929-04-0	83.00
4	Hexadecanoic acid, methyl ester	119408	000112-39-0	83.00
5	Methyl tetradecanoate	95861	000124-10-7	80.00

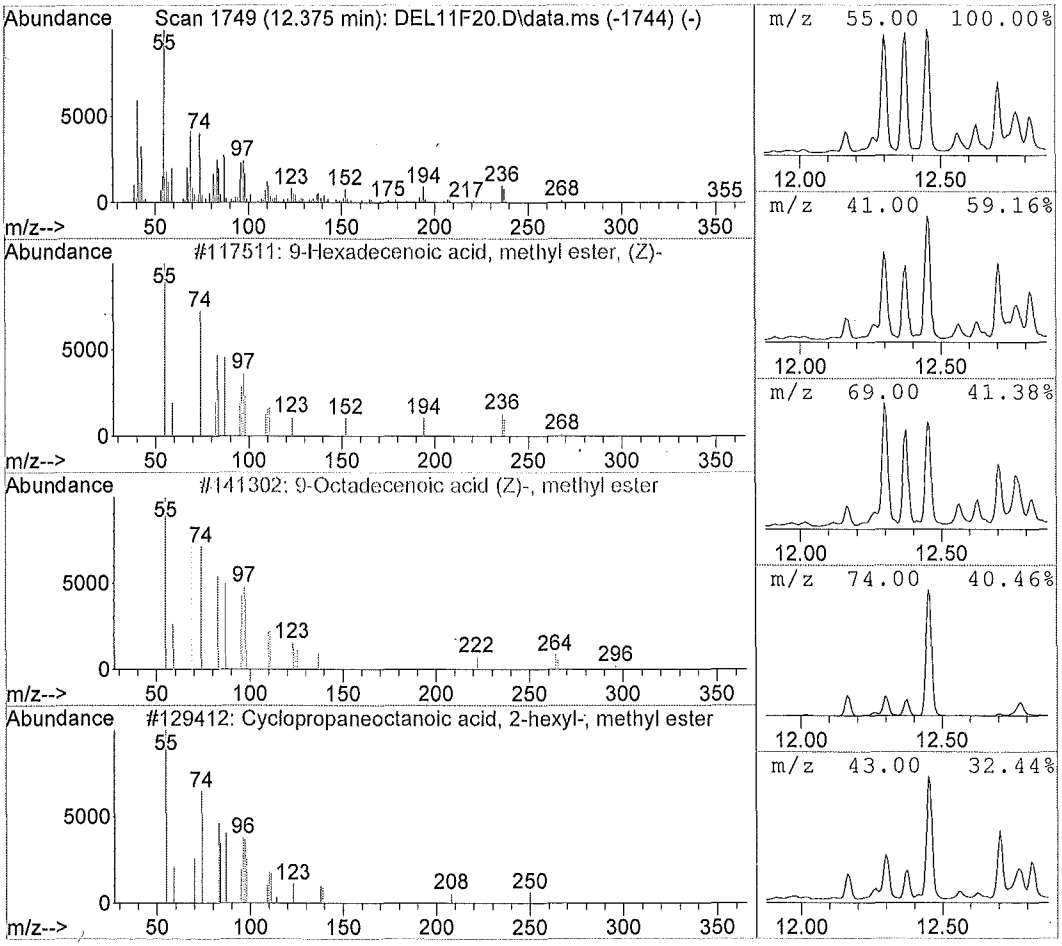


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL11F20.D Vial: 10
Acq On : 06/22/2015 18:41 Operator: DJC
Sample : 1515725020 F9M98 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Pelative to ISTD	ISTD Area
12.37	4.70 ug/ml	988255	Phenanthrene-d10	4205182

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Hexadecenoic acid, methyl ester,	117511	001120-25-8	99.00
2	9-Octadecenoic acid (Z)-, methyl es	141302	000112-62-9	81.00
3	Cyclopropaneoctanoic acid, 2-hexyl-	129412	010152-61-1	74.00
4	Methyl 11-hexadecenoate	117465	1000336-35-5	70.00
5	Methyl hexadec-9-enoate	117464	010030-74-7	58.00

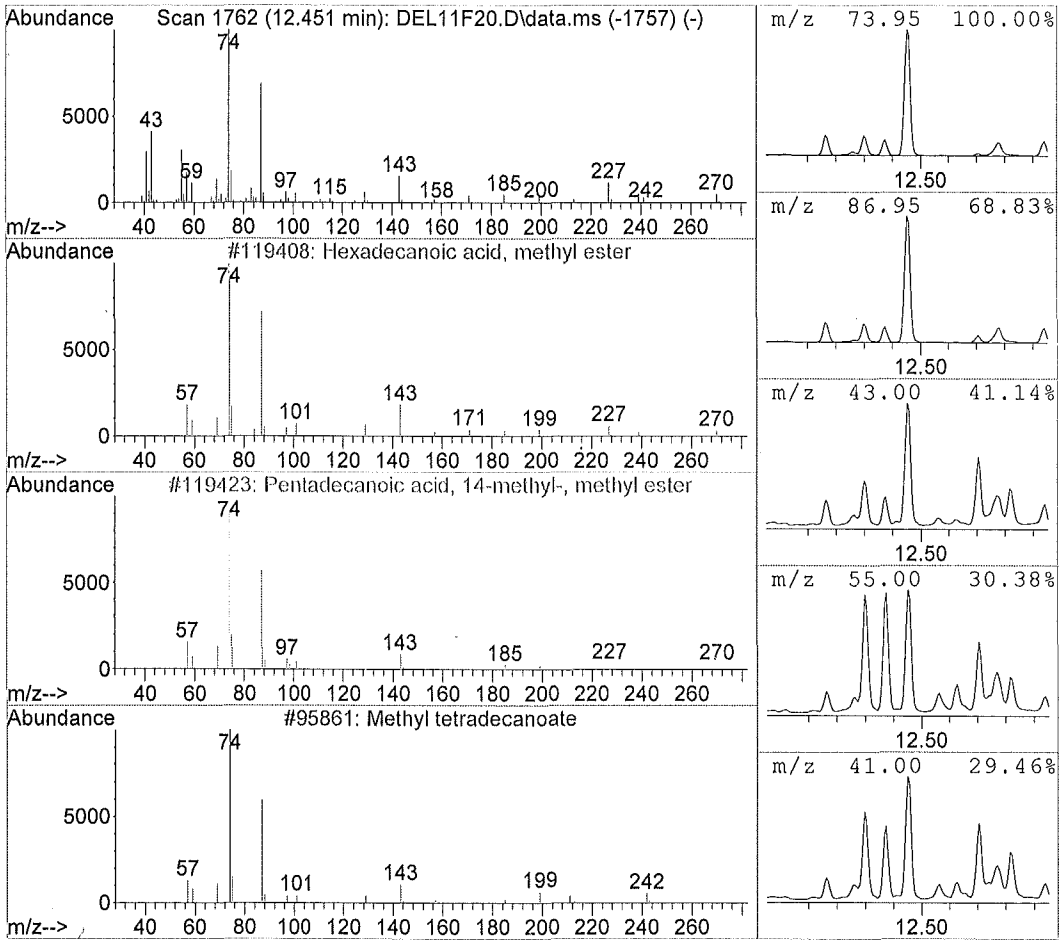


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL11F20.D Vial: 10
Acq On : 06/22/2015 18:41 Operator: DJC
Sample : 1515725020 F9M98 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.45	10.25 ug/ml	2155657	Phenanthrene-d10	4205182

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, methyl ester	119408	000112-39-0	98.00
2	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	96.00
3	Methyl tetradecanoate	95861	000124-10-7	91.00
4	Tridecanoic acid, methyl ester	84485	001731-88-0	90.00
5	Dodecanoic acid, 10-methyl-, methyl	84513	005129-65-7	83.00

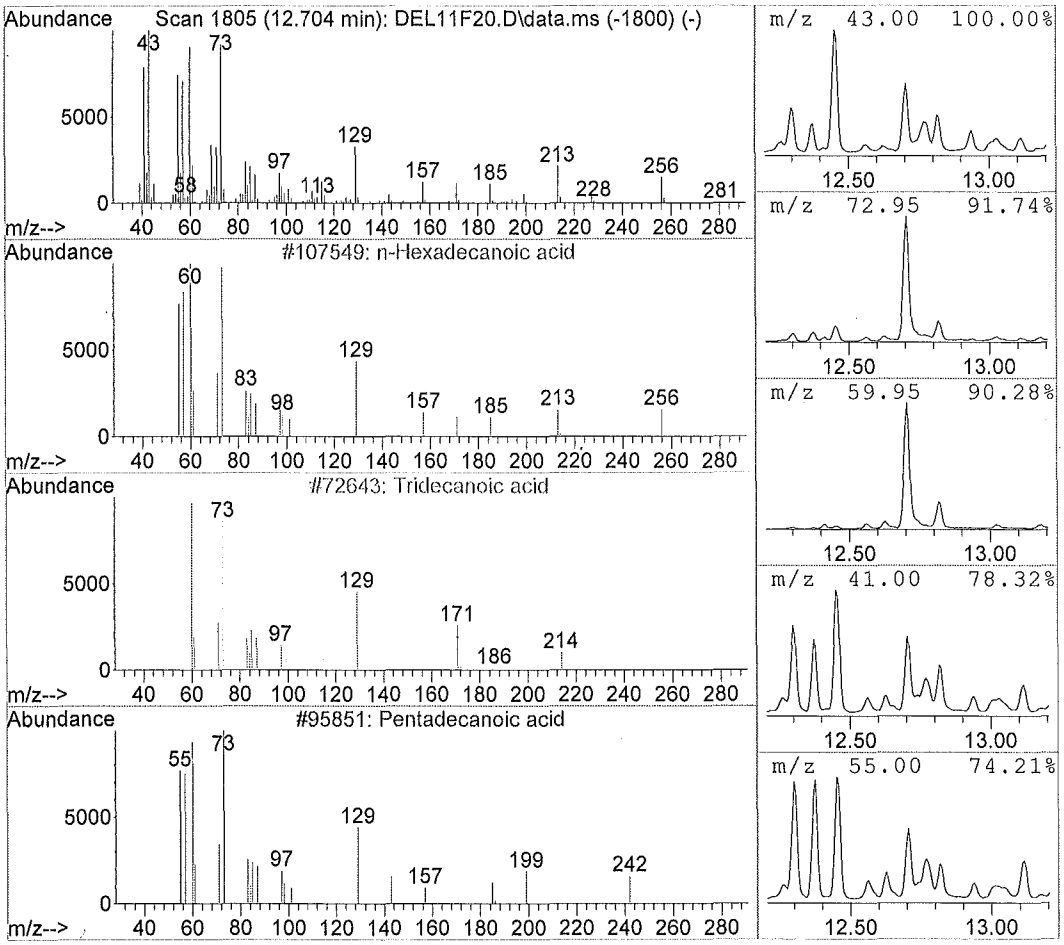


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL11F20.D Vial: 10
Acq On : 06/22/2015 18:41 Operator: DJC
Sample : 1515725020 F9M98 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.70	5.12 ug/ml	1076654	Phenanthrene-d10	4205182

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Tridecanoic acid	72643	000638-53-9	95.00
3	Pentadecanoic acid	95851	001002-84-2	81.00
4	Tetradecanoic acid	84452	000544-63-8	74.00
5	Undecanoic acid	50051	000112-37-8	62.00

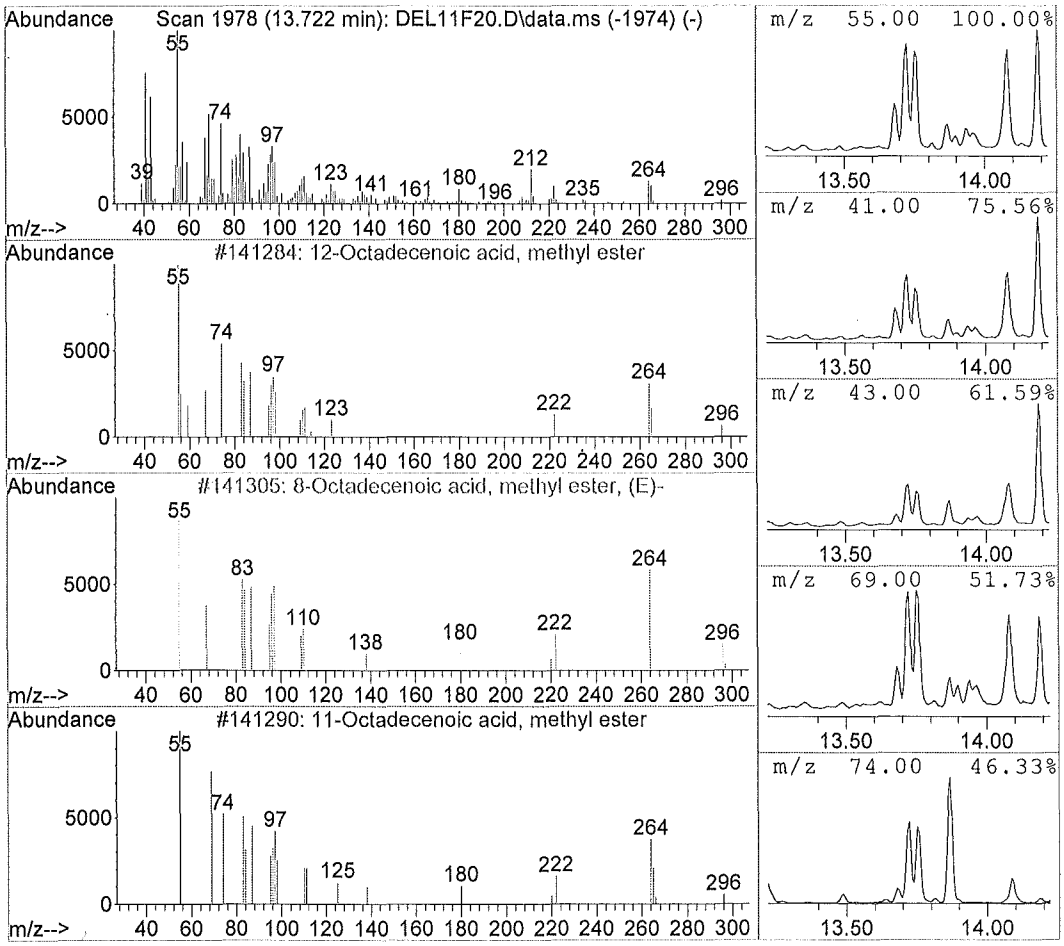


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL11F20.D Vial: 10
Acq On : 06/22/2015 18:41 Operator: DJC
Sample : 1515725020 F9M98 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.72	5.38 ug/ml	1579793	Chrysene-d12	5877829

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	12-Octadecenoic acid, methyl ester	141284	056554-46-2	99.00
2	8-Octadecenoic acid, methyl ester,	141305	026528-50-7	99.00
3	11-Octadecenoic acid, methyl ester	141290	052380-33-3	99.00
4	9-Octadecenoic acid (Z)-, methyl es	141302	000112-62-9	99.00
5	6-Octadecenoic acid, methyl ester,	141307	002777-58-4	99.00

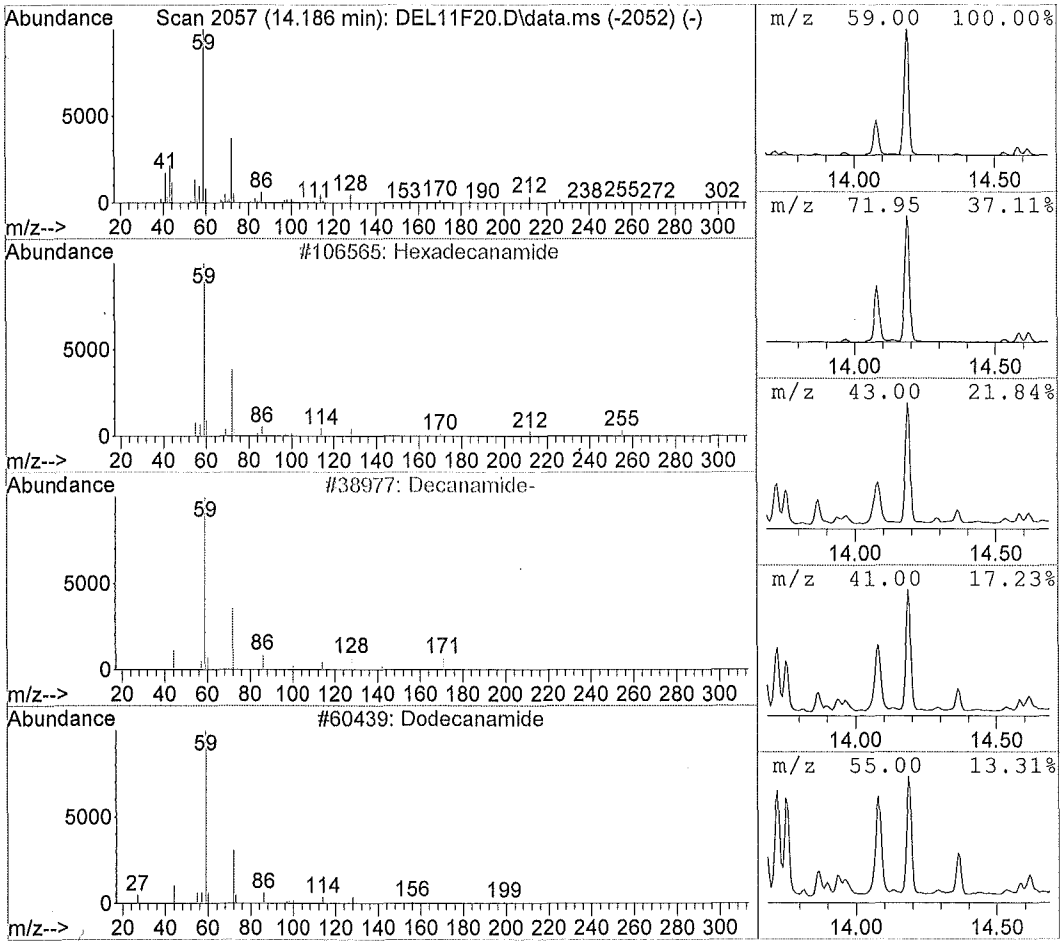


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL11F20.D Vial: 10
Acq On : 06/22/2015 18:41 Operator: DJC
Sample : 1515725020 F9M98 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.19	9.03 ug/ml	2652849	Chrysene-d12	5877829

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	91.00
2	Decanamide-	38977	002319-29-1	90.00
3	Dodecanamide	60439	001120-16-7	90.00
4	Tetradecanamide	83608	000638-58-4	86.00
5	Nonanamide	29478	001120-07-6	78.00

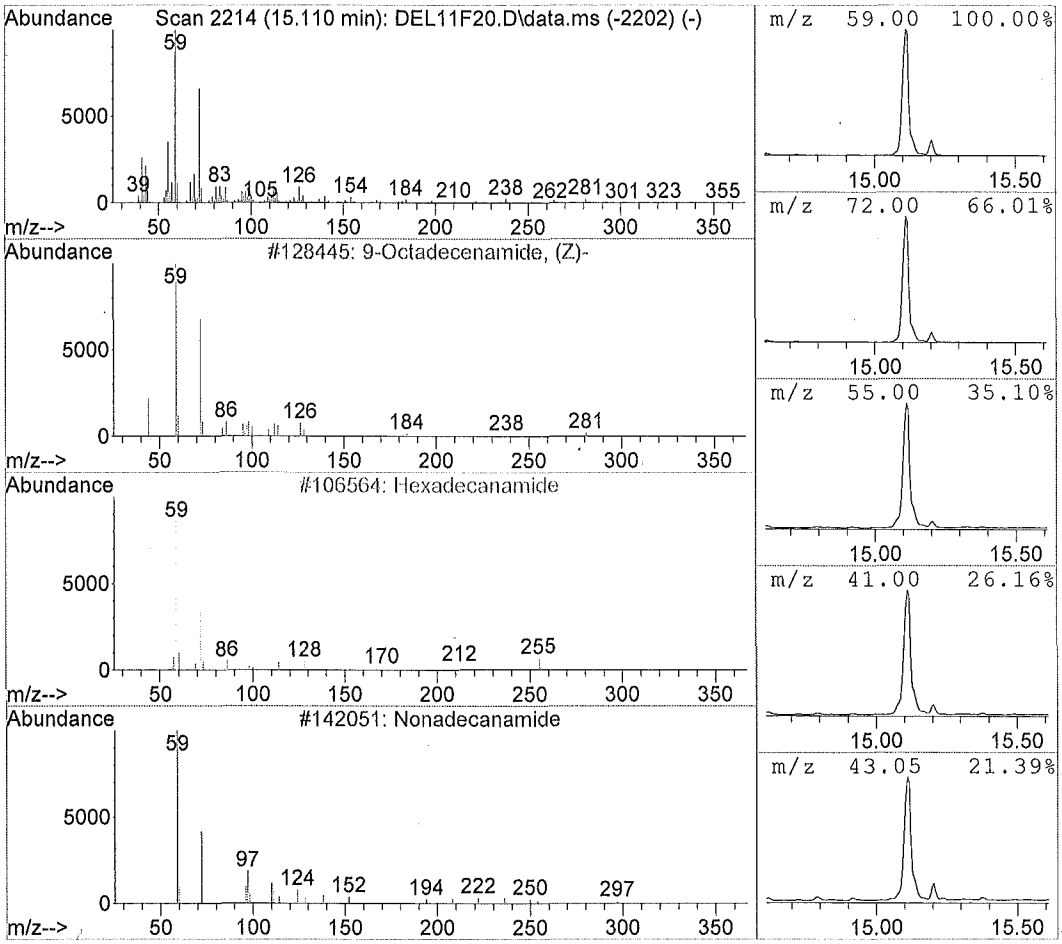


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL11F20.D Vial: 10
Acq On : 06/22/2015 18:41 Operator: DJC
Sample : 1515725020 F9M98 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.11	82.42 ug/ml	24221957	Chrysene-d12	5877829

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Hexadecanamide	106564	000629-54-9	72.00
3	Nonadecanamide	142051	058185-32-3	72.00
4	Octanamide	20317	000629-01-6	53.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	50.00



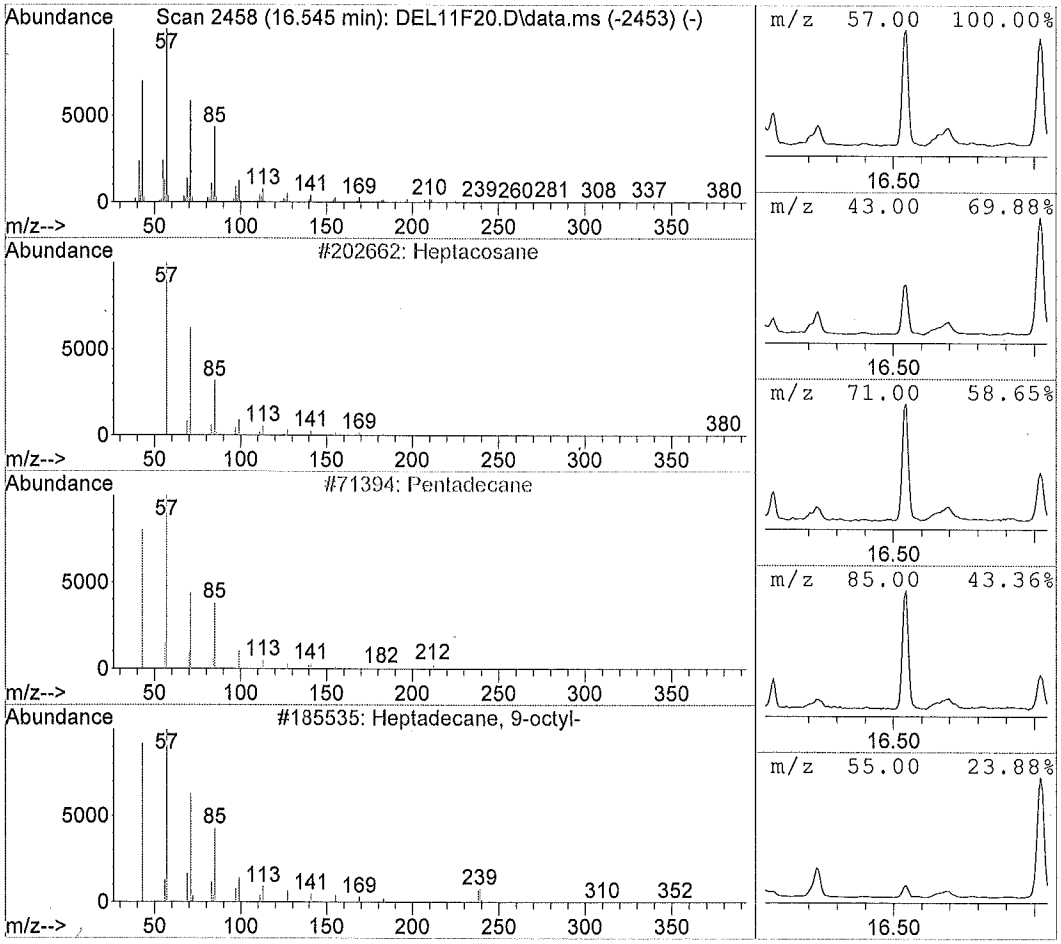
Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL11F20.D Vial: 10
Acq On : 06/22/2015 18:41 Operator: DJC
Sample : 1515725020 F9M98 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.54	2.79 ug/ml	819125	Chrysene-d12	5877829

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	98.00
2	Pentadecane	71394	000629-62-9	93.00
3	Heptadecane, 9-octyl-	185535	007225-64-1	91.00
4	Hexadecane	83023	000544-76-3	91.00
5	Octadecane	105884	000593-45-3	90.00

SA



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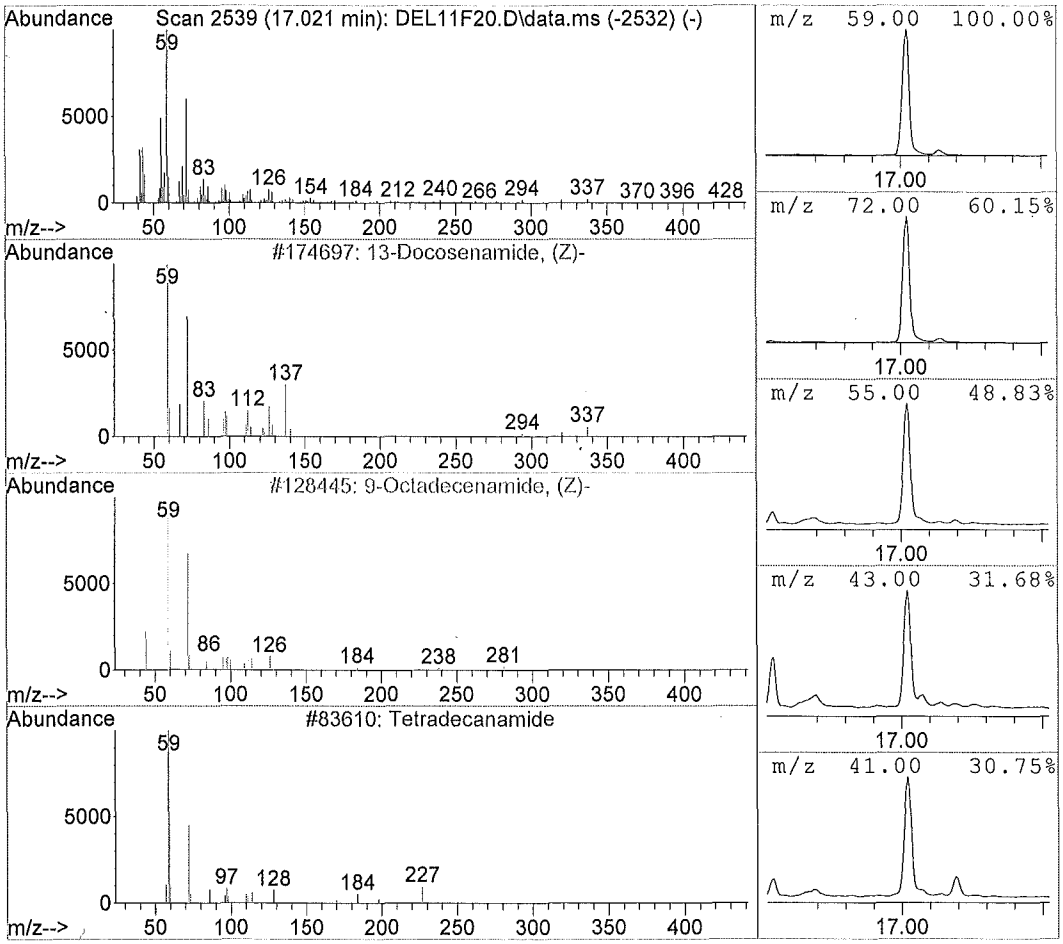
Acq On : 06/22/2015 18:41 Operator: DJC
Sample : 1515725020 F9M98 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.02	21.52 ug/ml	5550409	Perylene-d12	5157612

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174697	000112-84-5	93.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	90.00
3	Tetradecanamide	83610	000638-58-4	78.00
4	Octanamide	20317	000629-01-6	59.00
5	Octadecanamide	130204	000124-26-5	59.00

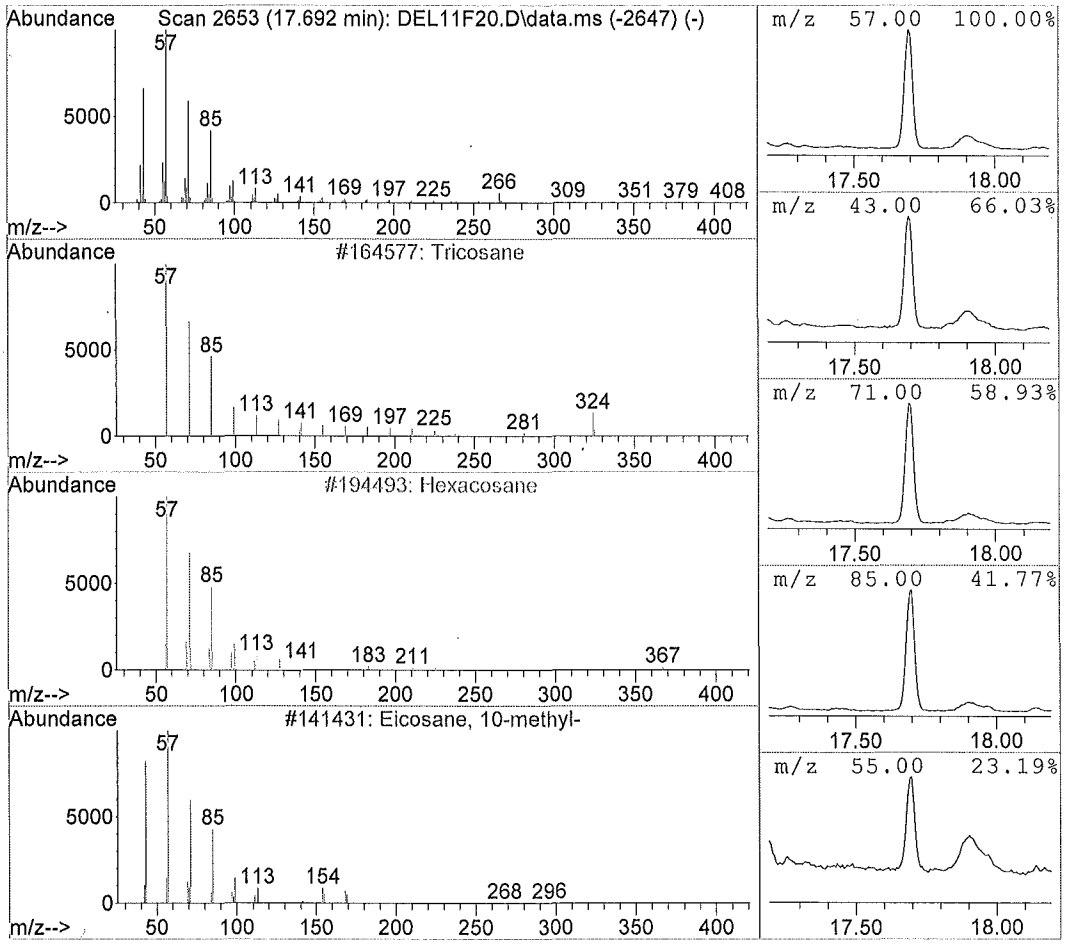


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL11F20.D Vial: 10
Acq On : 06/22/2015 18:41 Operator: DJC
Sample : 1515725020 F9M98 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.69	5.56 ug/ml	1432579	Perylene-d12	5157612

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tricosane SA	164577	000638-67-5	95.00
2	Hexacosane	194493	000630-01-3	94.00
3	Eicosane, 10-methyl-	141431	054833-23-7	93.00
4	Heptadecane, 9-octyl-	185535	007225-64-1	91.00
5	Pentadecane, 8-hexyl-	141433	013475-75-7	91.00

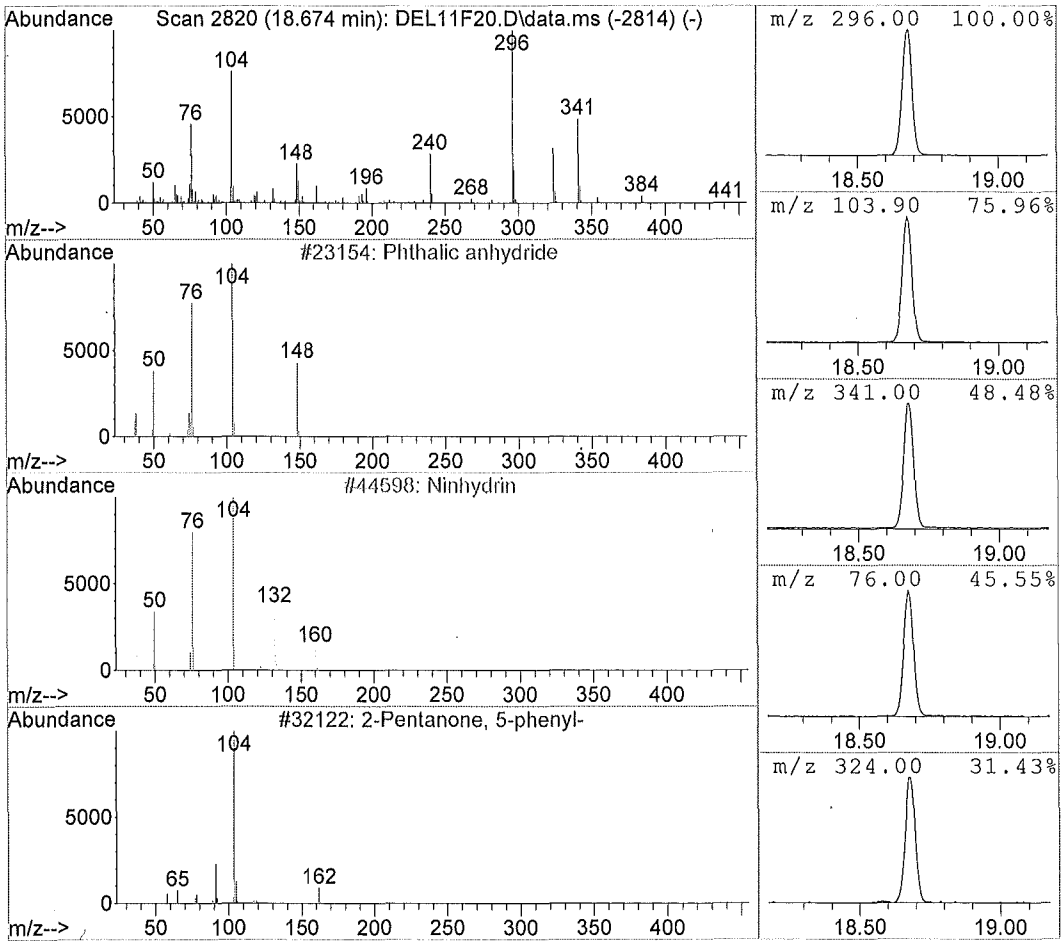


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL11F20.D Vial: 10
Acq On : 06/22/2015 18:41 Operator: DJC
Sample : 1515725020 F9M98 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.67	4.85 ug/ml	1250449	Perylene-d12	5157612

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23154	000085-44-9	27.00
2	Ninhydrin	44598	000485-47-2	22.00
3	2-Pentanone, 5-phenyl-	32122	002235-83-8	11.00
4	Benzene, 1,1'-(1,2-diethyl-1,2-ethe	141365	007773-34-4	11.00
5	Dimethylmalonic acid, heptyl 2-phen	172590	1000361-61-9	10.00



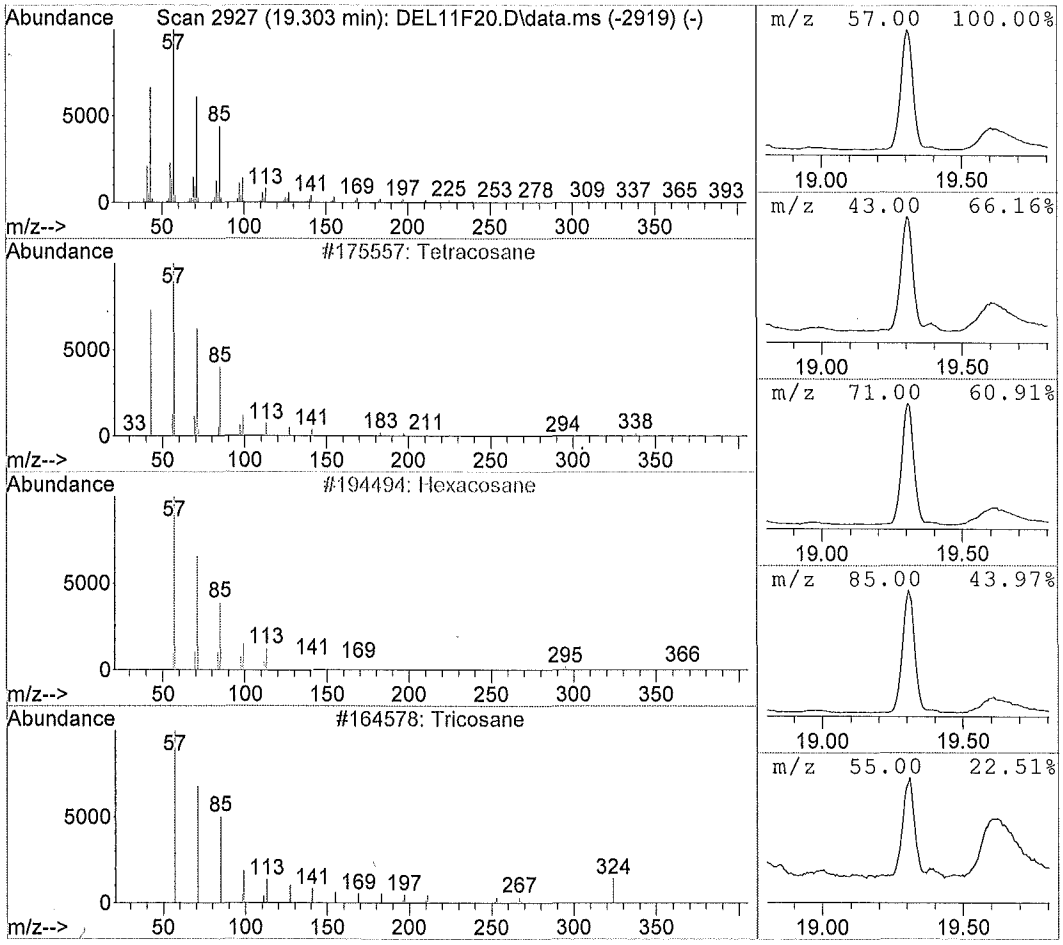
Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL11F20.D Vial: 10
Acq On : 06/22/2015 18:41 Operator: DJC
Sample : 1515725020 F9M98 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.30	7.15 ug/ml	1843887	Perylene-d12	5157612

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetracosane	175557	000646-31-1	97.00
2	Hexacosane	194494	000630-01-3	97.00
3	Tricosane	164578	000638-67-5	95.00
4	Tetratetracontane	241528	007098-22-8	95.00
5	Heptadecane, 9-hexyl-	164584	055124-79-3	94.00

SA

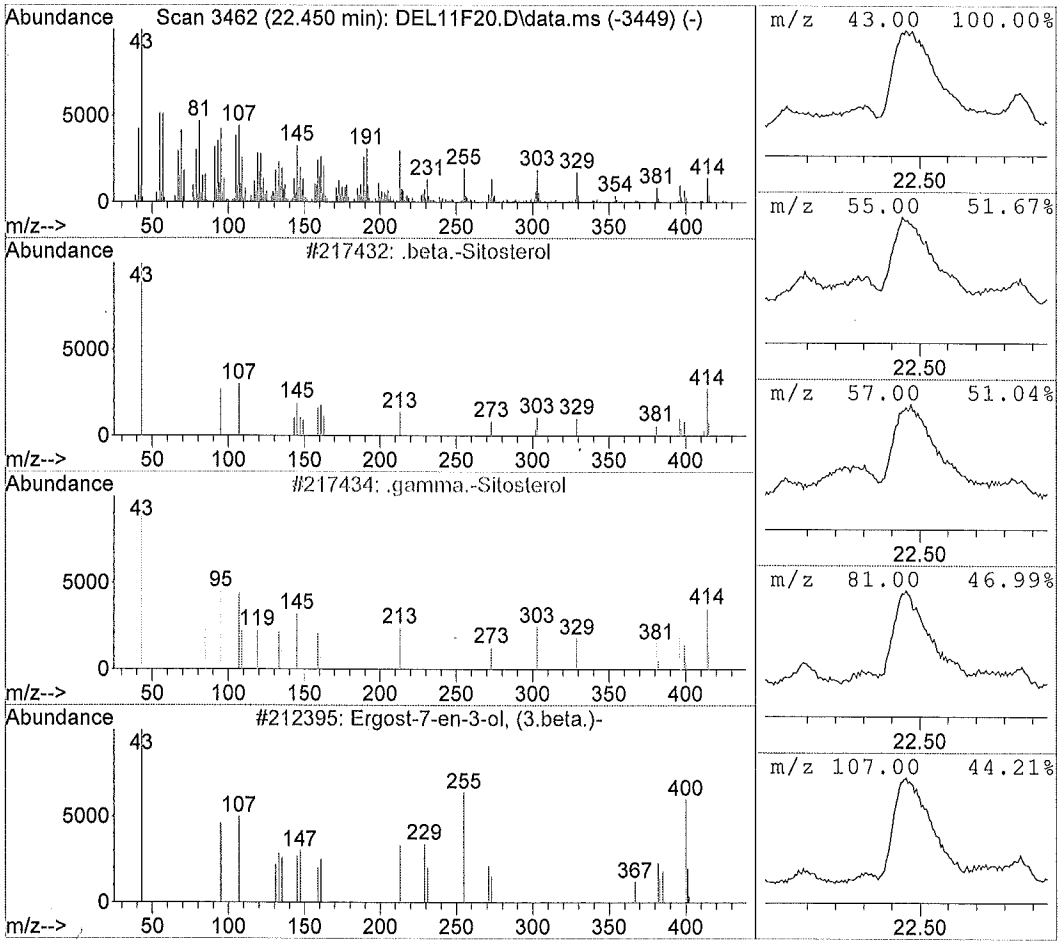


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL11F20.D Vial: 10
Acq On : 06/22/2015 18:41 Operator: DJC
Sample : 1515725020 F9M98 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.45	15.30 ug/ml	3945778	Perylene-d12	5157612

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	.beta.-Sitosterol	217432	000083-46-5	99.00
2	.gamma.-Sitosterol	217434	000083-47-6	97.00
3	Ergost-7-en-3-ol, (3.beta.)-	212395	026047-31-4	50.00
4	Campesterol	212386	000474-62-4	49.00
5	Ergost-5-en-3-ol, (3.beta.)-	212394	004651-51-8	47.00

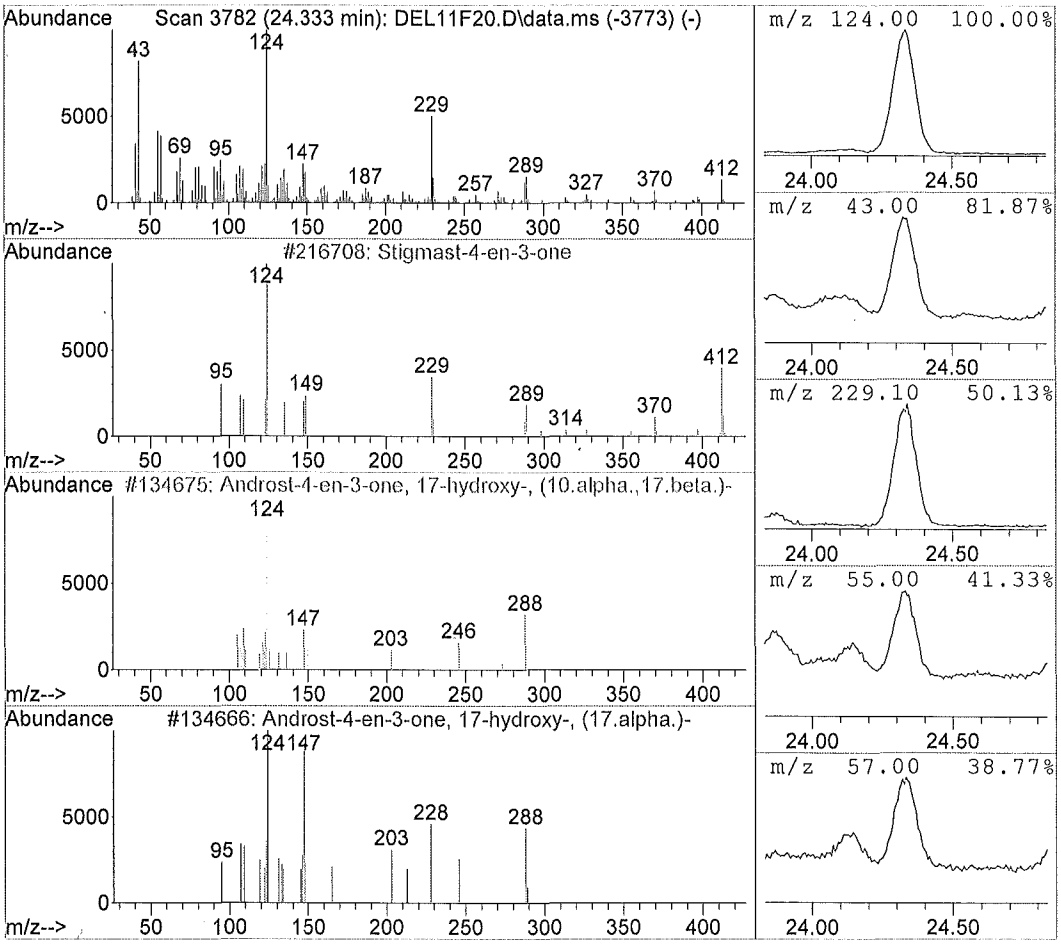


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL11F20.D Vial: 10
Acq On : 06/22/2015 18:41 Operator: DJC
Sample : 1515725020 F9M98 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.33	6.88 ug/ml	1774577	Perylene-d12	5157612

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmast-4-en-3-one	216708	001058-61-3	93.00
2	Androst-4-en-3-one, 17-hydroxy-, (1	134675	000604-39-7	90.00
3	Androst-4-en-3-one, 17-hydroxy-, (1	134666	000481-30-1	52.00
4	Testosterone	134630	000058-22-0	49.00
5	5-Ethylcyclopent-1-enecarboxaldehyd	10565	036431-60-4	27.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M99

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725021

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DEL12F21

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/22/2015

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M99

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725021

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DEL12F21

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/22/2015

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	39.	J
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M99

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725021
Sample wt/vol: 30.0 (g/mL) g Lab File ID: DEL12F21
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 11. Decanted: (Y/N) N Date Received: 06/05/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/22/2015
GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 1,2-Ethanediol	2.39	270	J
02		Unknown 2-Pentanone, 4-hydroxy-	3.35	680	JB
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.56	15000	JB
04		Unknown TATP	4.12	330	J
05		Unknown Hexane, 2-bromo-	4.23	200	J
06		Unknown 1H-Pyrrole-2,5-dione	4.32	410	J
07		Unknown 2-Pentanone, 3-methyl-	4.63	830	J
08		Unknown Ethanone, 1-oxiranyl-	5.14	500	J
09	1000336-31-4	Methyl 13-methyltetradecanoate	11.36	97.	JN
10	112-39-0	Hexadecanoic acid, methyl ester	12.45	120	JN
11	638-58-4	Tetradecanamide	12.82	100	JNB
12	629-54-9	Hexadecanamide	14.19	270	JNB
13	301-02-0	9-Octadecenamide, (Z)-	15.11	2700	JNB
14	629-54-9	Hexadecanamide	15.20	100	JNB
15		Unknown cis-9,10-Epoxyoctadecanamide	15.89	76.	J
16		Unknown 2,5-Octadiene, 3,4,5,6-tetramethyl-	16.23	98.	J
17	112-84-5	13-Docosenamide, (Z)-	17.02	370	JN
18		Unknown Phthalic anhydride	18.68	390	J
19		Unknown 1,4-Dimethyl-8-isopropylidenetricyclo[5.	21.32	330	J
20		Unknown Phthalic anhydride	23.42	420	J
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	81.	J

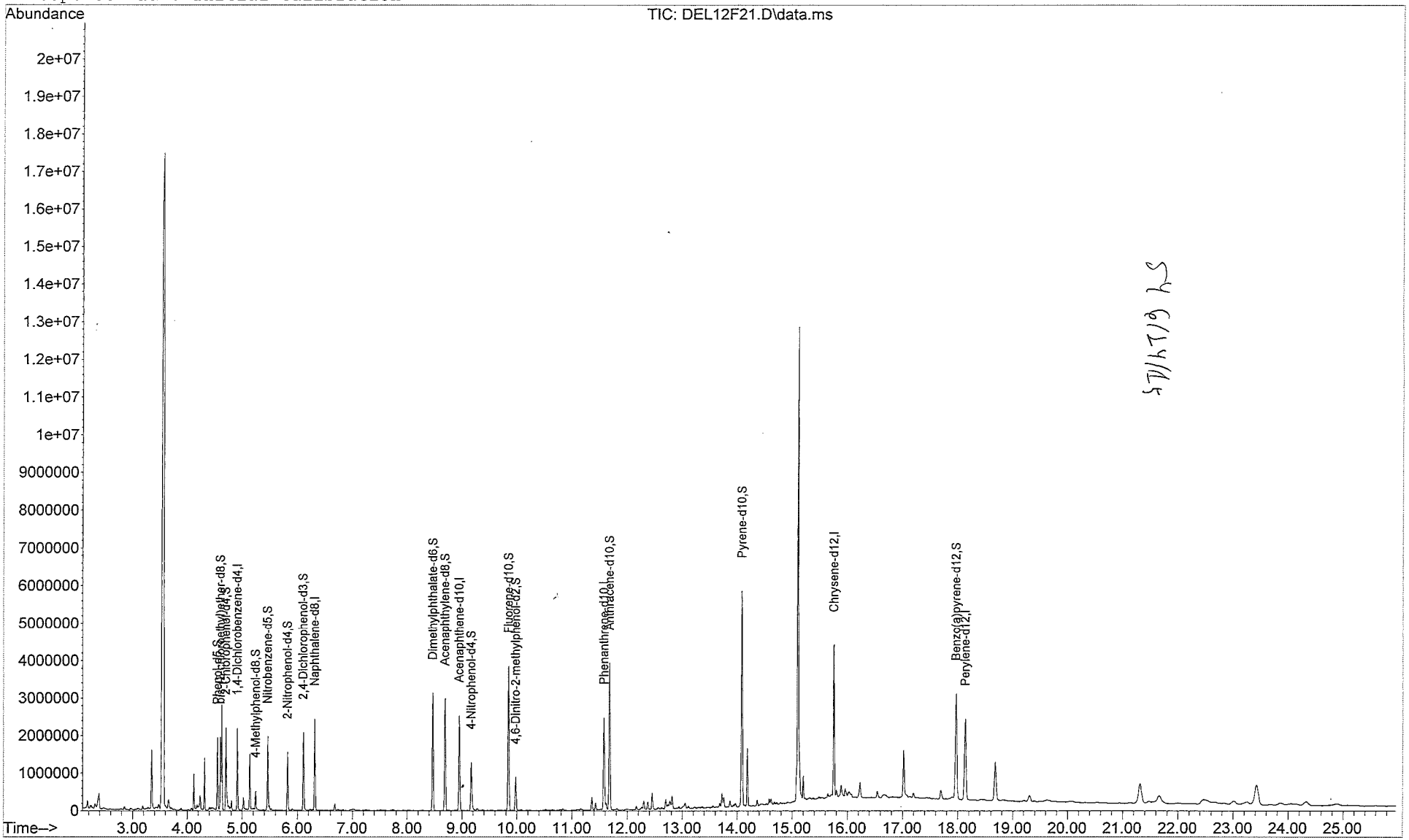
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL12F21.D Vial: 11
Acq On : 06/22/2015 19:15 Operator: DJC
Sample : 1515725021 F9M99 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 24 12:10:02 2015 Results File: DSOM01D6.RES

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 23 08:43:28 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL12F21.D Vial: 11
Acq On : 06/22/2015 19:15 Operator: DJC
Sample : 1515725021 F9M99 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 24 12:10:02 2015 Results File: DSOM01D6.RES

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 23 08:43:28 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.91	152	342608	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1232404	20.00 ug/ml
33) Acenaphthene-d10	8.95	164	812454	20.00 ug/ml
59) Phenanthrene-d10	11.57	188	1499296	20.00 ug/ml
73) Chrysene-d12	15.76	240	1862734	20.00 ug/ml
81) Perylene-d12	18.14	264	1664634	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.55	99	655255	29.165ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	425401	25.297ug/mL
7) 2-Chlorophenol-d4	4.70	132	559664	26.482ug/ml
13) 4-Methylphenol-d8	5.25	113	116779	6.997ug/mL
17) Nitrobenzene-d5	5.46	128	281213	27.717ug/ml
21) 2-Nitrophenol-d4	5.82	143	327792	28.352ug/mL
25) 2,4-Dichlorophenol-d3	6.11	165	519623	26.164ug/mL
28) 4-Chloroaniline-d4	6.39	131	6717	0.332ug/mL
42) Dimethylphthalate-d6	8.47	166	1828835	36.105ug/mL
45) Acenaphthylene-d8	8.69	160	1871249	28.106ug/mL
50) 4-Nitrophenol-d4	9.17	143	333896	35.315ug/mL
57) Fluorene-d10	9.85	176	1511007	33.602ug/mL
61) 4,6-Dinitro-2-methylphenol	9.98	200	210794	21.821ug/mL
69) Anthracene-d10	11.68	188	2335245	29.919ug/mL
75) Pyrene-d10	14.09	212	2655280	34.802ug/mL
86) Benzo(a)pyrene-d12	17.97	264	2064755	26.821ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

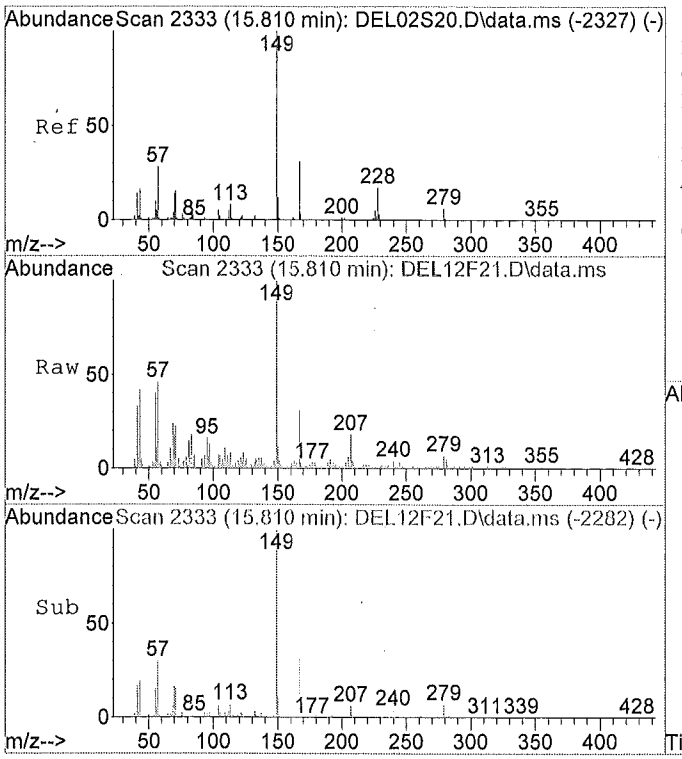
Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL12F21.D Vial: 11
Acq On : 06/22/2015 19:15 Operator: DJC
Sample : 1515725021 F9M99 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 24 12:10:02 2015 Results File: DSOM01D6.RES

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 23 08:43:28 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	0.00	152		Not Detected	
46)	3-Nitroaniline	0.00	138		Not Detected	
47)	Acenaphthene	0.00	153		Not Detected	
48)	2,4-Dinitrophenol	0.00	184		Not Detected	
49)	4-Nitrophenol	0.00	109		Not Detected	
51)	Dibenzofuran	0.00	168		Not Detected	
52)	2,4-Dinitrotoluene	0.00	165		Not Detected	
53)	2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54)	Diethylphthalate	0.00	149		Not Detected	
55)	4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56)	Fluorene	0.00	166		Not Detected	
58)	4-Nitroaniline	0.00	138		Not Detected	
60)	4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62)	N-Nitrosodiphenylamine	0.00	169		Not Detected	
63)	4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64)	Hexachlorobenzene	0.00	284		Not Detected	
65)	Atrazine	0.00	200		Not Detected	
66)	Pentachlorophenol	0.00	266		Not Detected	
67)	Phenanthrene	0.00	178		Not Detected	
68)	Anthracene	0.00	178		Not Detected	
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	0.00	202		Not Detected	
74)	Pyrene	0.00	202		Not Detected	
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	0.00	228		Not Detected	
79)	Chrysene	0.00	228		Not Detected	
80)	Bis-(2-ethylhexyl)phthalat	15.81	149	66002	1.037ug/ml	99
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	0.00	252		Not Detected	
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	0.00	252		Not Detected	
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

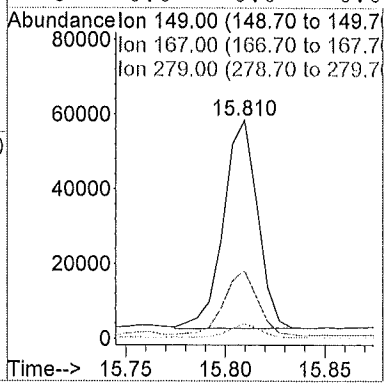
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#80
Bis-(2-ethylhexyl)phthalate
Concen: 1.04 ug/ml
RT: 15.81 min Scan# 2333
Delta R.T. 0.00 min
Lab File: DEL12F21.D
Acq: 06/22/2015 19:15

Tgt Ion:149 Resp: 66002

Ion	Ratio	Lower	Upper
149	100		
167	30.9	22.0	40.8
279	6.6	5.0	9.2
0	0.0	0.0	0.0



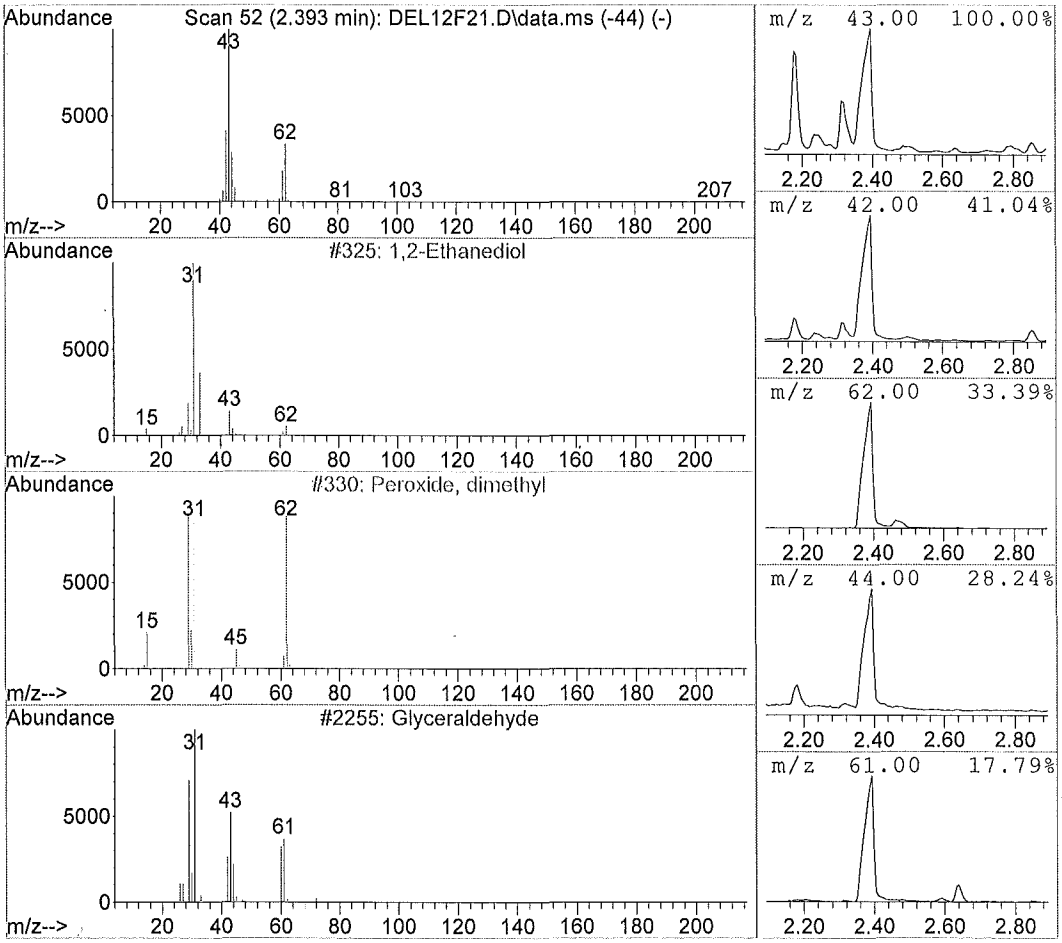
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL12F21.D Vial: 11
Acq On : 06/22/2015 19:15 Operator: DJC
Sample : 1515725021 F9M99 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.39	7.30 ug/ml	768349	1,4-Dichlorobenzene-d4	2106362

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Ethanediol	325	000107-21-1	9.00
2	Peroxide, dimethyl	330	000690-02-8	7.00
3	Glyceraldehyde	2255	000056-82-6	4.00
4	Monoethanolamine	306	000141-43-5	3.00
5	Ethanimidic acid, ethyl ester	1898	001000-84-6	2.00



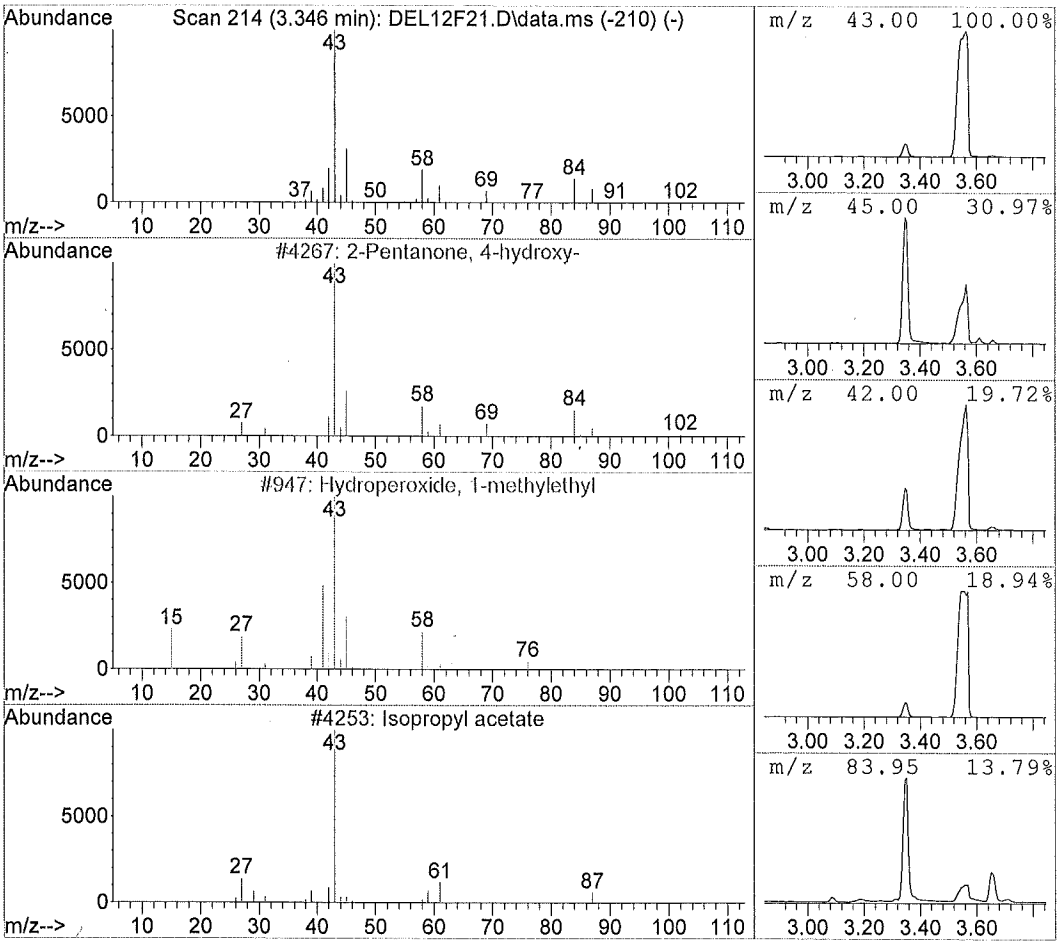
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL12F21.D Vial: 11
Acq On : 06/22/2015 19:15 Operator: DJC
Sample : 1515725021 F9M99 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.35	18.34 ug/ml	1931915	1,4-Dichlorobenzene-d4	2106362

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	40.00
2	Hydroperoxide, 1-methylethyl	947	003031-75-2	38.00
3	Isopropyl acetate	4253	000108-21-4	17.00
4	Butane	232	000106-97-8	9.00
5	Acetone	214	000067-64-1	9.00

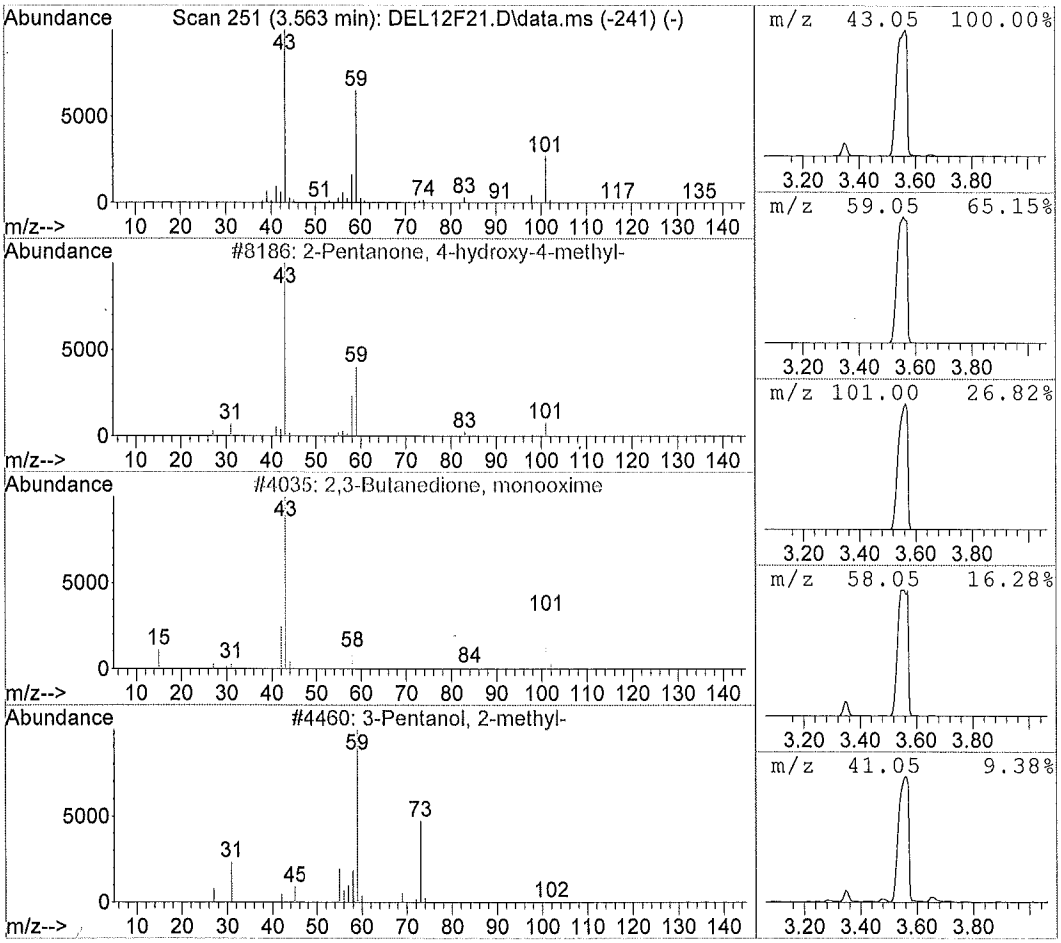


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL12F21.D Vial: 11
Acq On : 06/22/2015 19:15 Operator: DJC
Sample : 1515725021 F9M99 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.56	391.88 ug/ml	41272039	1,4-Dichlorobenzene-d4	2106362

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
2	2,3-Butanedione, monooxime	4035	000057-71-6	25.00
3	3-Pentanol, 2-methyl-	4460	000565-67-3	23.00
4	4-Hydroxy-3-hexanone	8102	004984-85-4	23.00
5	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	17.00

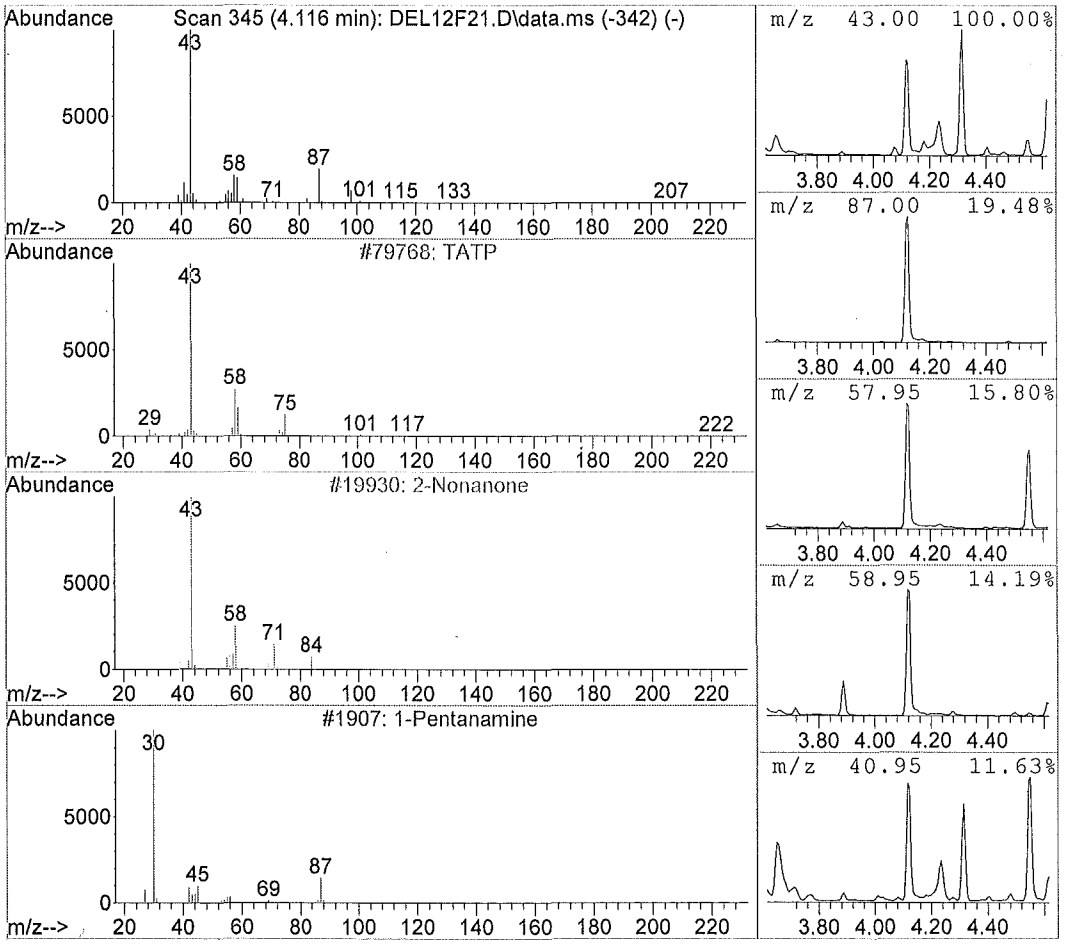


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL12F21.D Vial: 11
Acq On : 06/22/2015 19:15 Operator: DJC
Sample : 1515725021 F9M99 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.12	8.94 ug/ml	941642	1,4-Dichlorobenzene-d4	2106362

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	TATP	79768	017088-37-8	43.00
2	2-Nonanone	19930	000821-55-6	25.00
3	1-Pentanamine	1907	000110-58-7	9.00
4	2-Hexanone, 5-methyl-	7507	000110-12-3	9.00
5	1,3-Dioxolane-2-methanol, 2,4-dimet	14316	053951-43-2	9.00



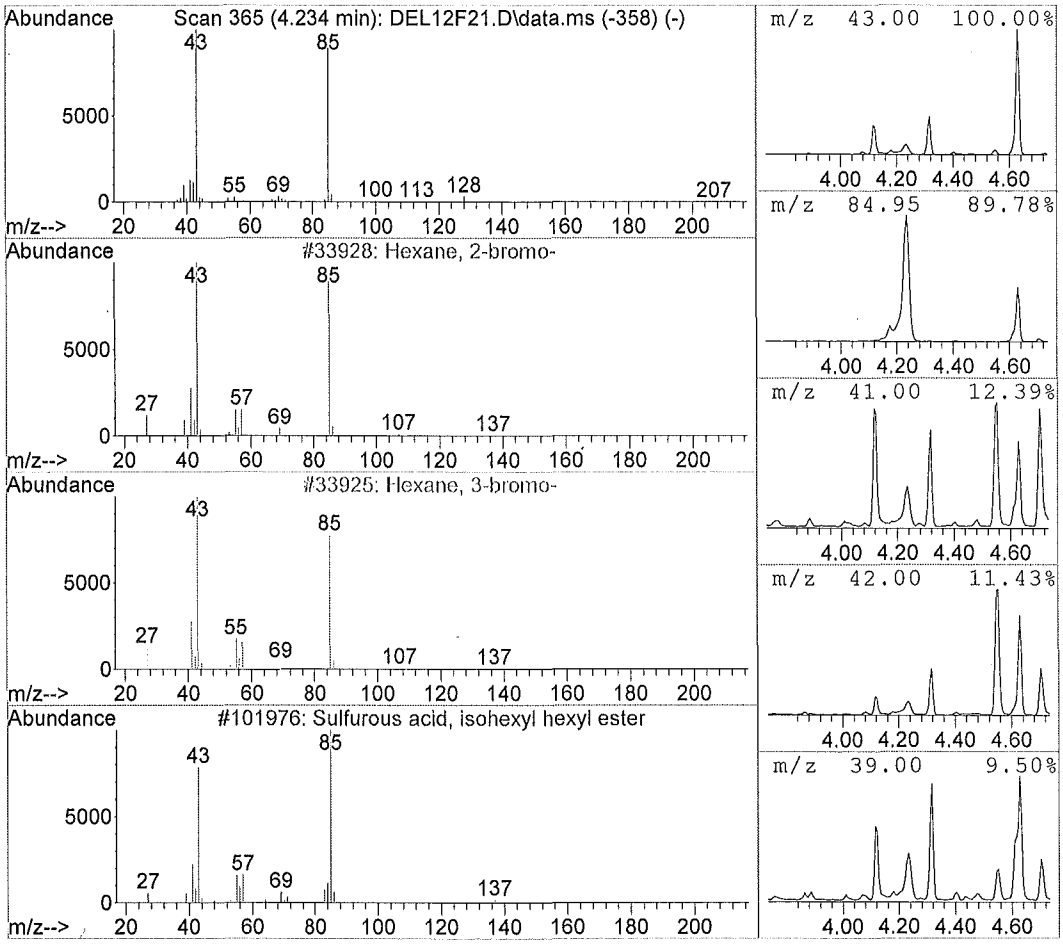
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL12F21.D Vial: 11
Acq On : 06/22/2015 19:15 Operator: DJC
Sample : 1515725021 F9M99 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.23	5.34 ug/ml	562708	1,4-Dichlorobenzene-d4	2106362

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2-bromo-	33928	003377-86-4	78.00
2	Hexane, 3-bromo-	33925	003377-87-5	64.00
3	Sulfurous acid, isohexyl hexyl este	101976	1000309-12-8	64.00
4	2(3H)-Furanone, dihydro-5-propyl-	12280	000105-21-5	45.00
5	Hexane, 2-iodo-	71483	018589-27-0	43.00



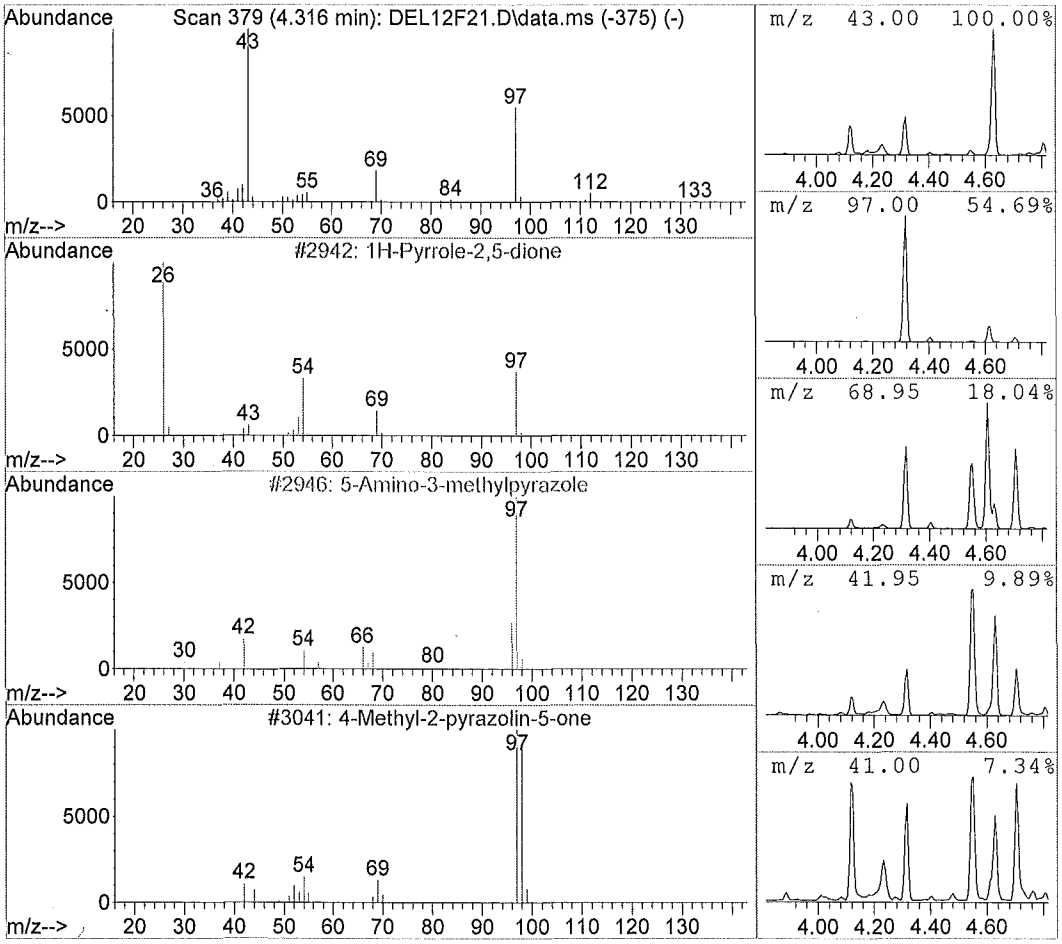
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL12F21.D Vial: 11
Acq On : 06/22/2015 19:15 Operator: DJC
Sample : 1515725021 F9M99 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.32	10.85 ug/ml	1142725	1,4-Dichlorobenzene-d4	2106362

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	38.00
2	5-Amino-3-methylpyrazole	2946	031230-17-8	37.00
3	4-Methyl-2-pyrazolin-5-one	3041	013315-23-6	28.00
4	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	28.00
5	1H-Pyrazol-4-amine, 3-methyl-	2952	1000338-28-2	23.00



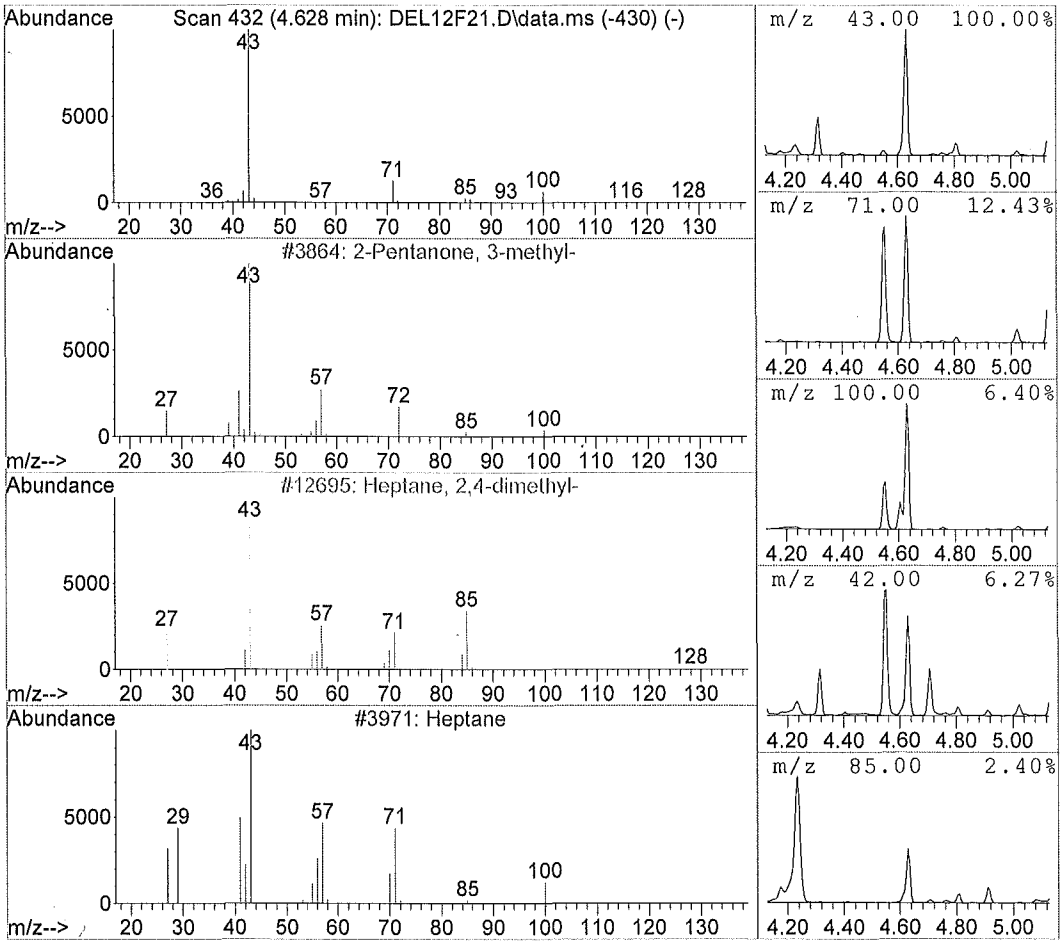
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL12F21.D Vial: 11
Acq On : 06/22/2015 19:15 Operator: DJC
Sample : 1515725021 F9M99 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.63	22.15 ug/ml	2332925	1,4-Dichlorobenzene-d4	2106362

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 3-methyl-	3864	000565-61-7	9.00
2	Heptane, 2,4-dimethyl-	12695	002213-23-2	7.00
3	Heptane	3971	000142-82-5	7.00
4	1-Butanol, 2-methylene-, acetate	12273	055670-09-2	5.00
5	1-Propen-2-ol, acetate	3687	000108-22-5	5.00

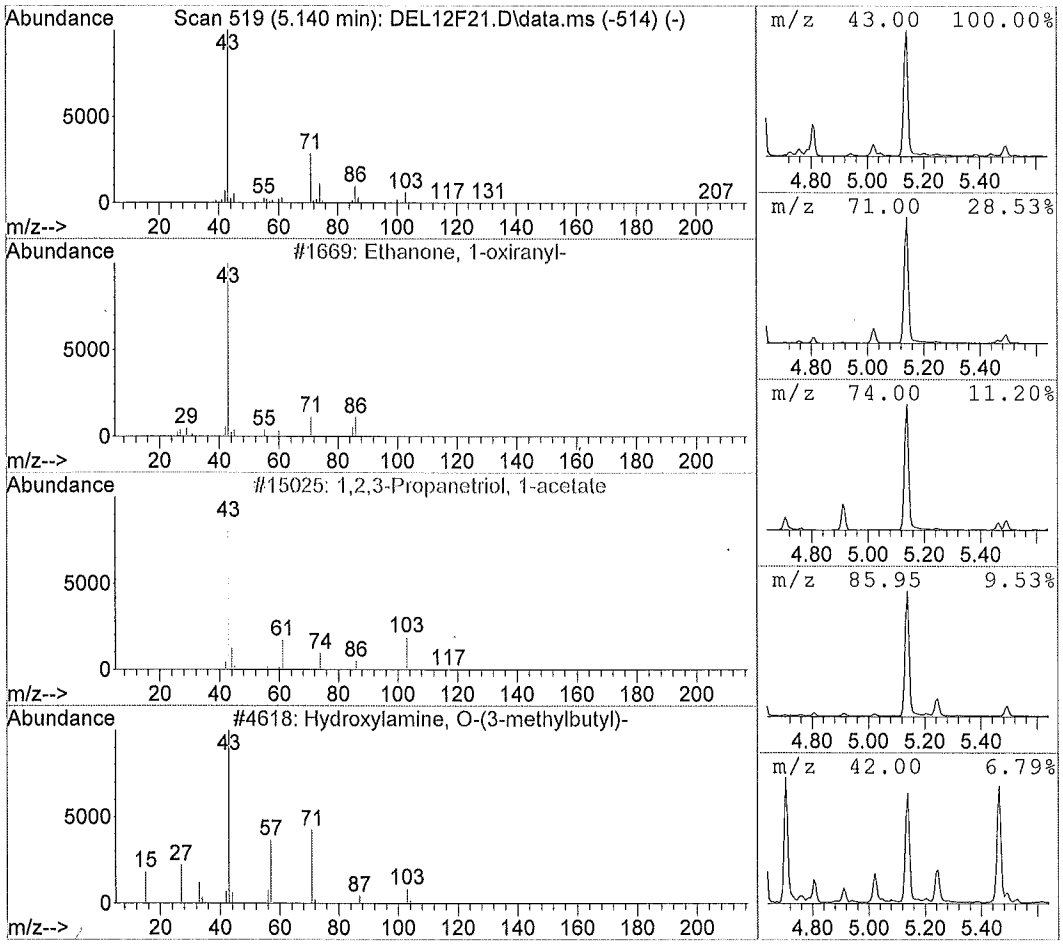


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL12F21.D Vial: 11
Acq On : 06/22/2015 19:15 Operator: DJC
Sample : 1515725021 F9M99 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.14	13.50 ug/ml	1421601	1,4-Dichlorobenzene-d4	2106362

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanone, 1-oxiranyl-	1669	004401-11-0	35.00
2	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	25.00
3	Hydroxylamine, O-(3-methylbutyl)-	4618	019411-65-5	23.00
4	2-Propanone, 1-hydroxy-	817	000116-09-6	22.00
5	Ethanol, 2-(pentyloxy)-, acetate	41640	005312-09-4	17.00

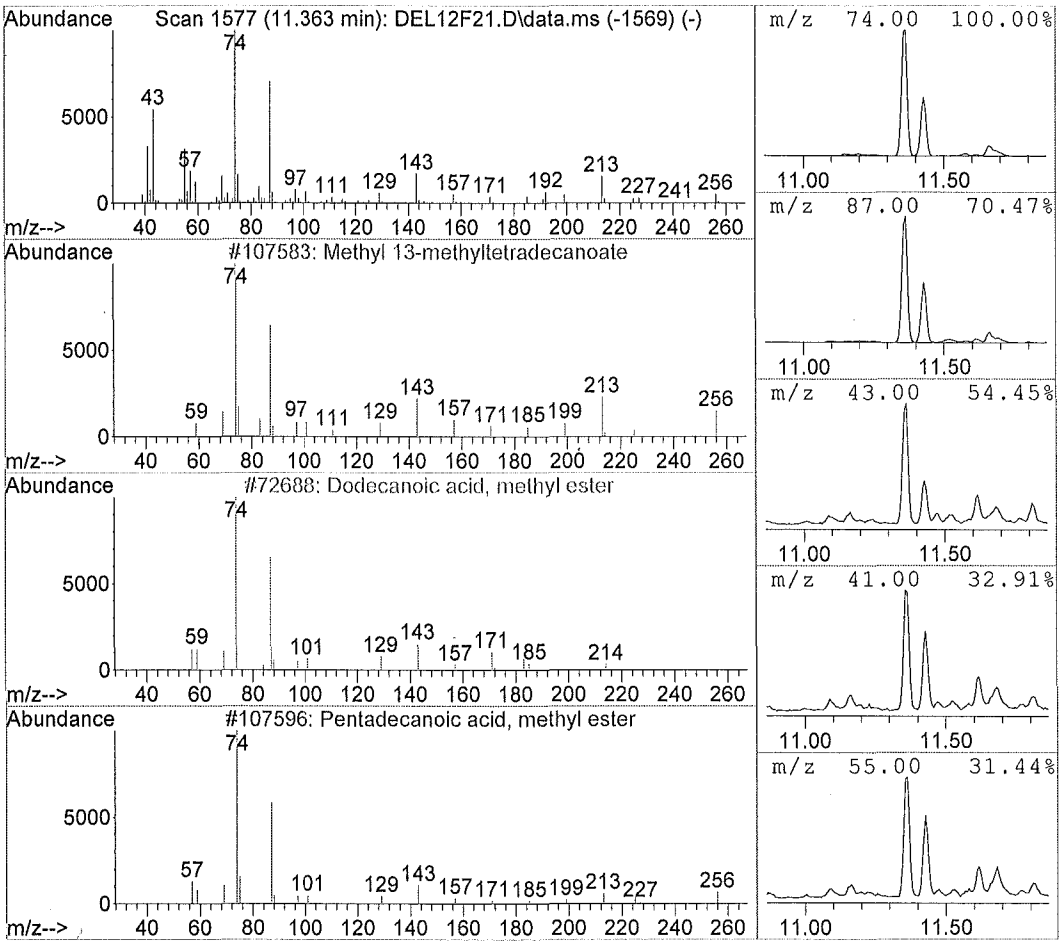


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL12F21.D Vial: 11
Acq On : 06/22/2015 19:15 Operator: DJC
Sample : 1515725021 F9M99 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.36	2.61 ug/ml	485224	Phenanthrene-d10	3724745

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methyl 13-methyltetradecanoate	107583	1000336-31-4	97.00
2	Dodecanoic acid, methyl ester	72688	000111-82-0	91.00
3	Pentadecanoic acid, methyl ester	107596	007132-64-1	90.00
4	Methyl 9-methyltetradecanoate	107578	213617-69-7	87.00
5	Hexadecanoic acid, methyl ester	119408	000112-39-0	83.00

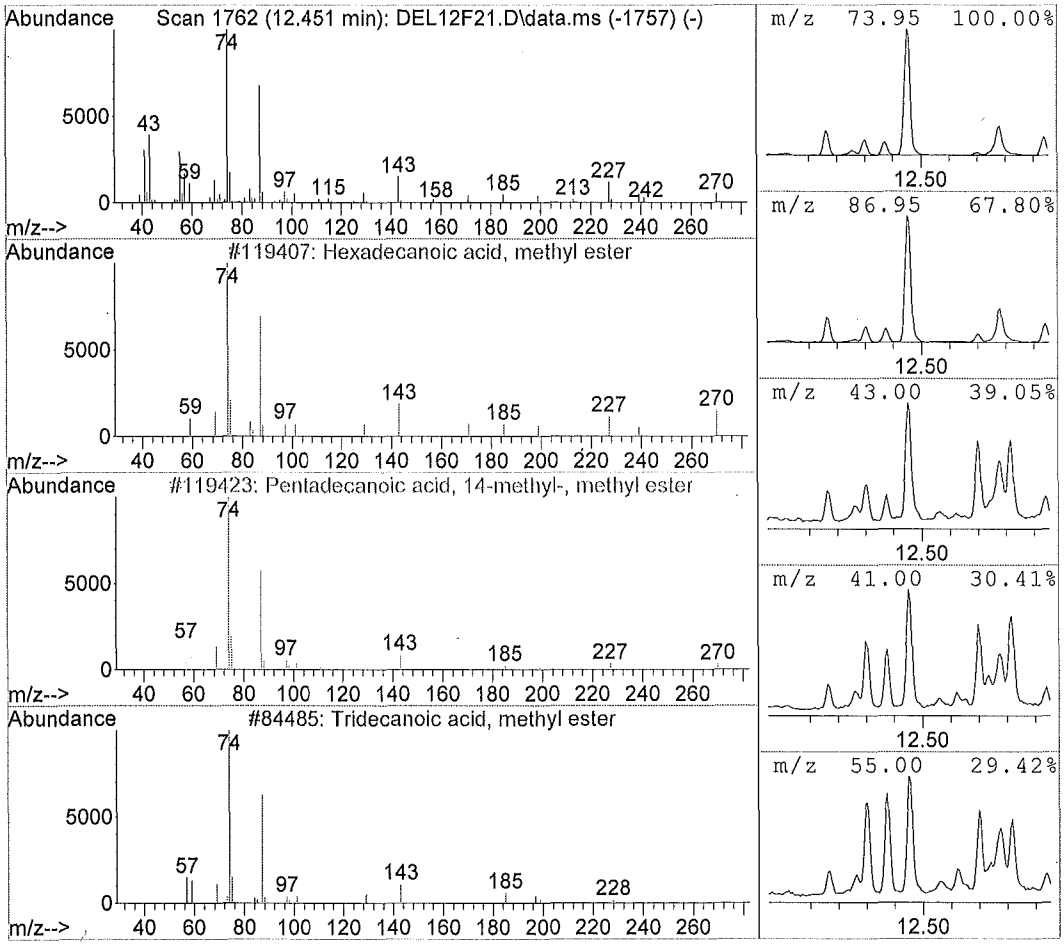


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL12F21.D Vial: 11
Acq On : 06/22/2015 19:15 Operator: DJC
Sample : 1515725021 F9M99 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.45	3.34 ug/ml	621896	Phenanthrene-d10	3724745

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, methyl ester	119407	000112-39-0	97.00
2	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	96.00
3	Tridecanoic acid, methyl ester	84485	001731-88-0	93.00
4	Methyl tetradecanoate	95861	000124-10-7	91.00
5	Dodecanoic acid, methyl ester	72681	000111-82-0	81.00

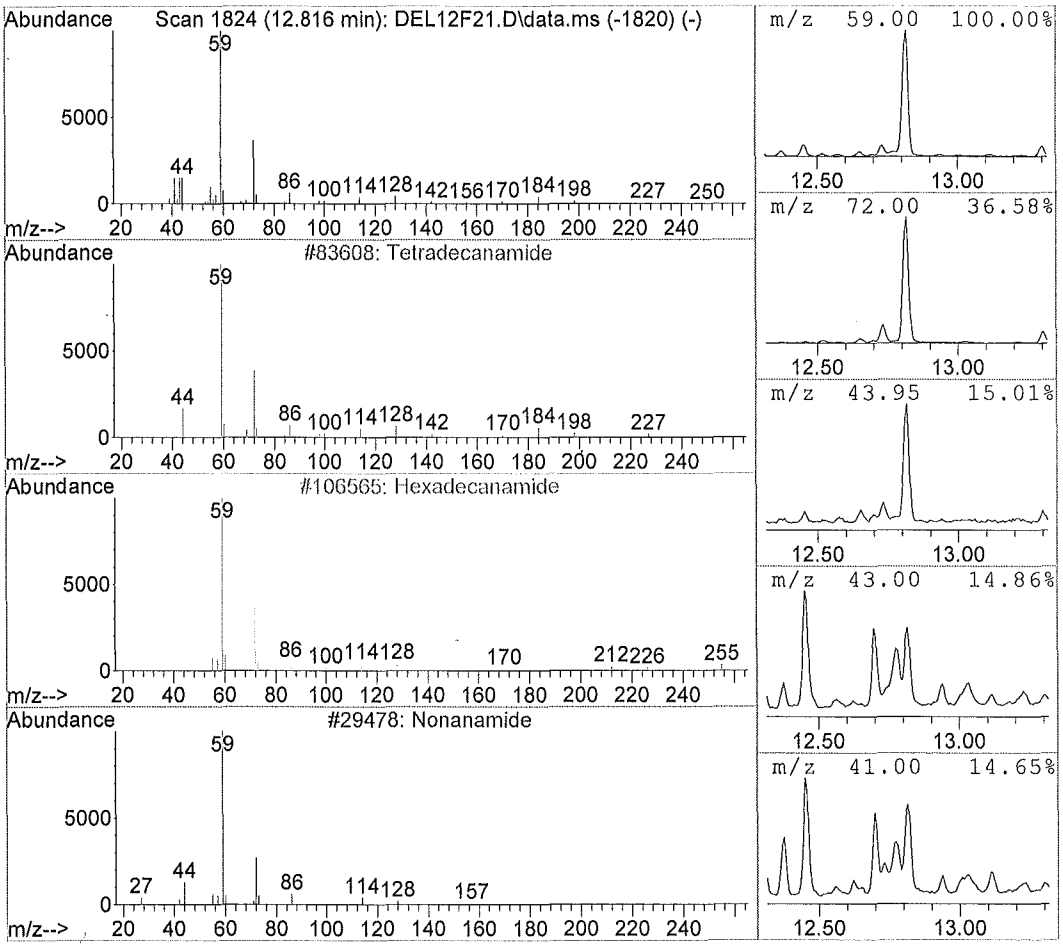


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL12F21.D Vial: 11
Acq On : 06/22/2015 19:15 Operator: DJC
Sample : 1515725021 F9M99 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.82	2.68 ug/ml	499176	Phenanthrene-d10	3724745

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83608	000638-58-4	97.00
2	Hexadecanamide	106565	000629-54-9	90.00
3	Nonanamide	29478	001120-07-6	78.00
4	Decanamide-	38977	002319-29-1	78.00
5	Dodecanamide	60439	001120-16-7	78.00

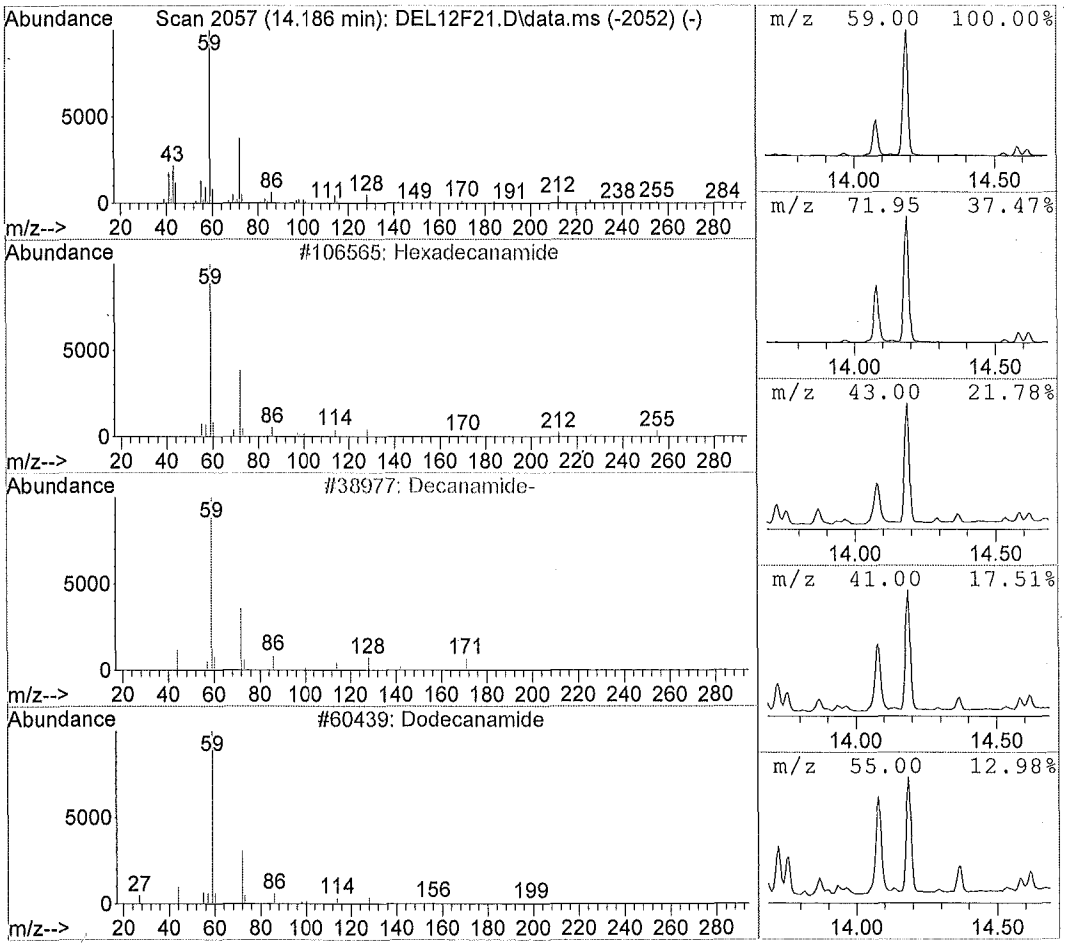


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL12F21.D Vial: 11
Acq On : 06/22/2015 19:15 Operator: DJC
Sample : 1515725021 F9M99 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.19	7.31 ug/ml	1773742	Chrysene-d12	4855104

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	91.00
2	Decanamide-	38977	002319-29-1	90.00
3	Dodecanamide	60439	001120-16-7	90.00
4	Tetradecanamide	83608	000638-58-4	86.00
5	Nonanamide	29478	001120-07-6	78.00

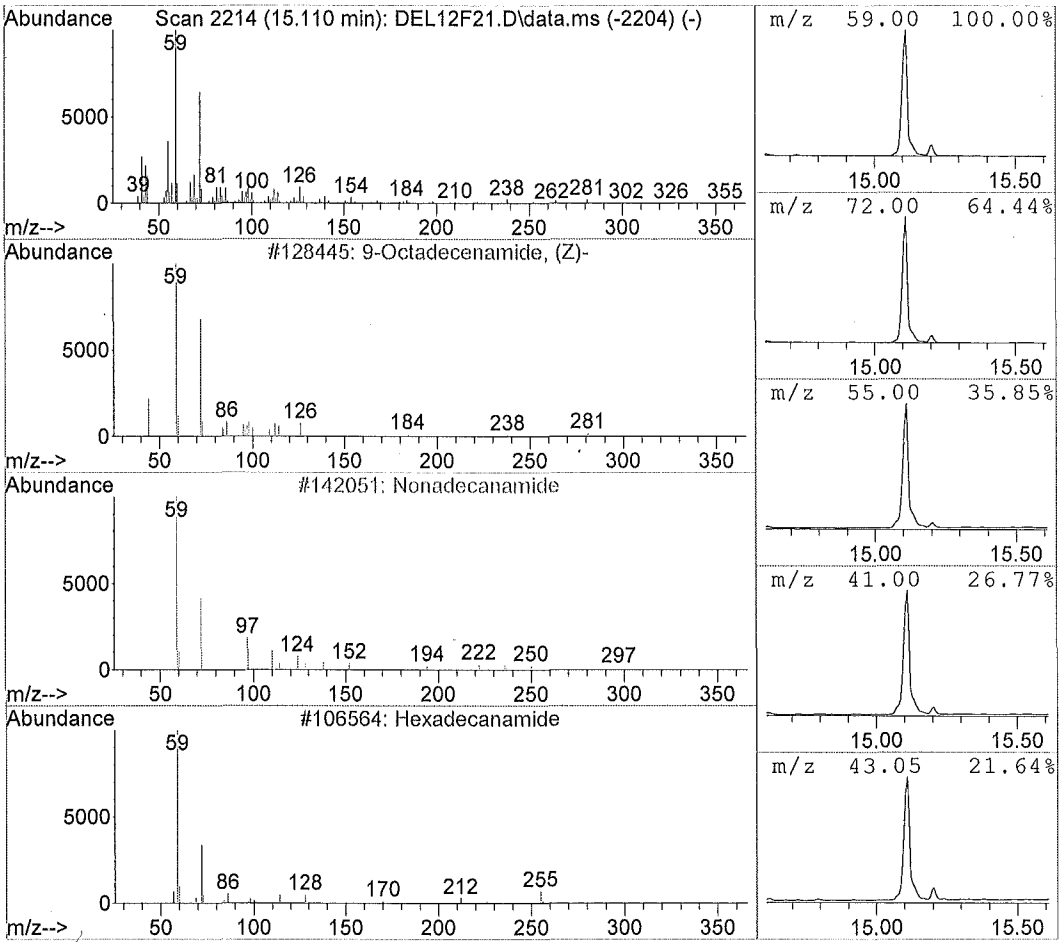


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL12F21.D Vial: 11
Acq On : 06/22/2015 19:15 Operator: DJC
Sample : 1515725021 F9M99 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.11	71.81 ug/ml	17432024	Chrysene-d12	4855104

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Nonadecanamide	142051	058185-32-3	72.00
3	Hexadecanamide	106564	000629-54-9	72.00
4	Dodecanamide	60439	001120-16-7	64.00
5	Octanamide	20317	000629-01-6	53.00

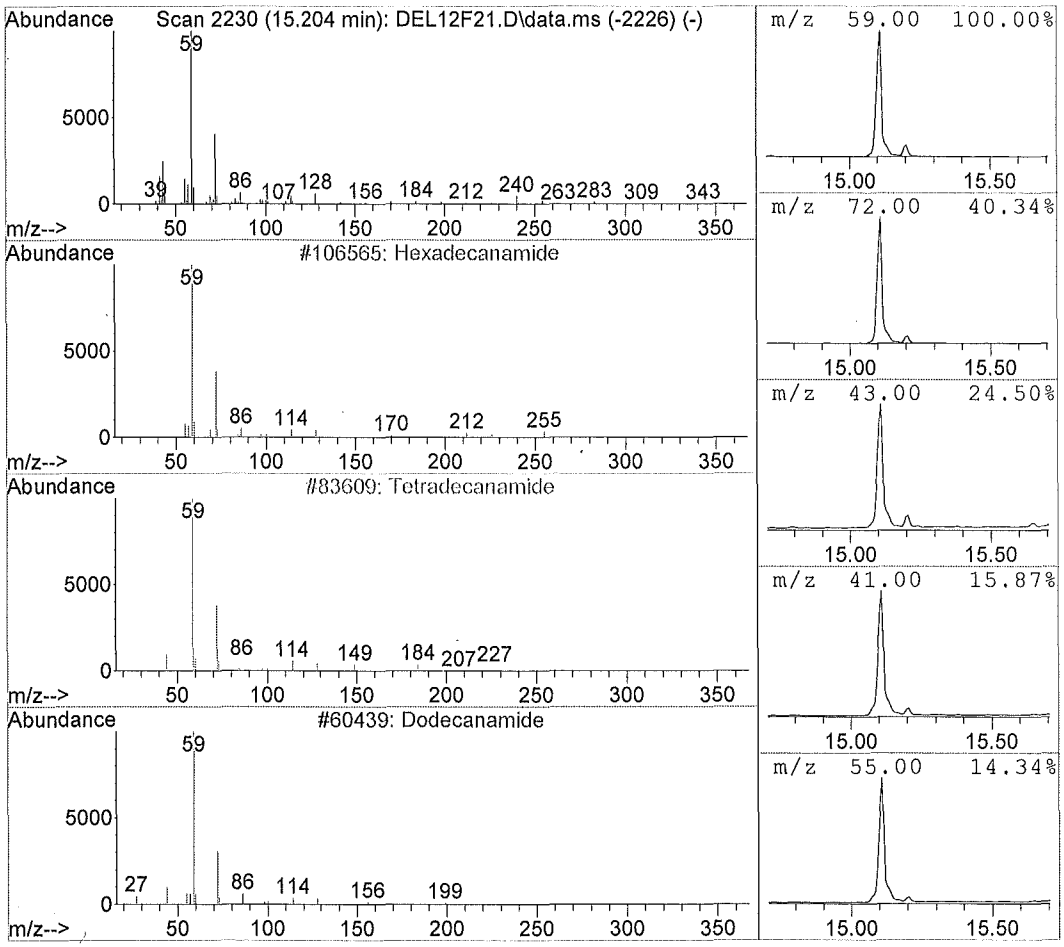


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL12F21.D Vial: 11
Acq On : 06/22/2015 19:15 Operator: DJC
Sample : 1515725021 F9M99 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.20	2.72 ug/ml	660289	Chrysene-d12	4855104

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	93.00
2	Tetradecanamide	83609	000638-58-4	86.00
3	Dodecanamide	60439	001120-16-7	78.00
4	Nonadecanamide	142051	058185-32-3	64.00
5	Decanamide-	38977	002319-29-1	59.00

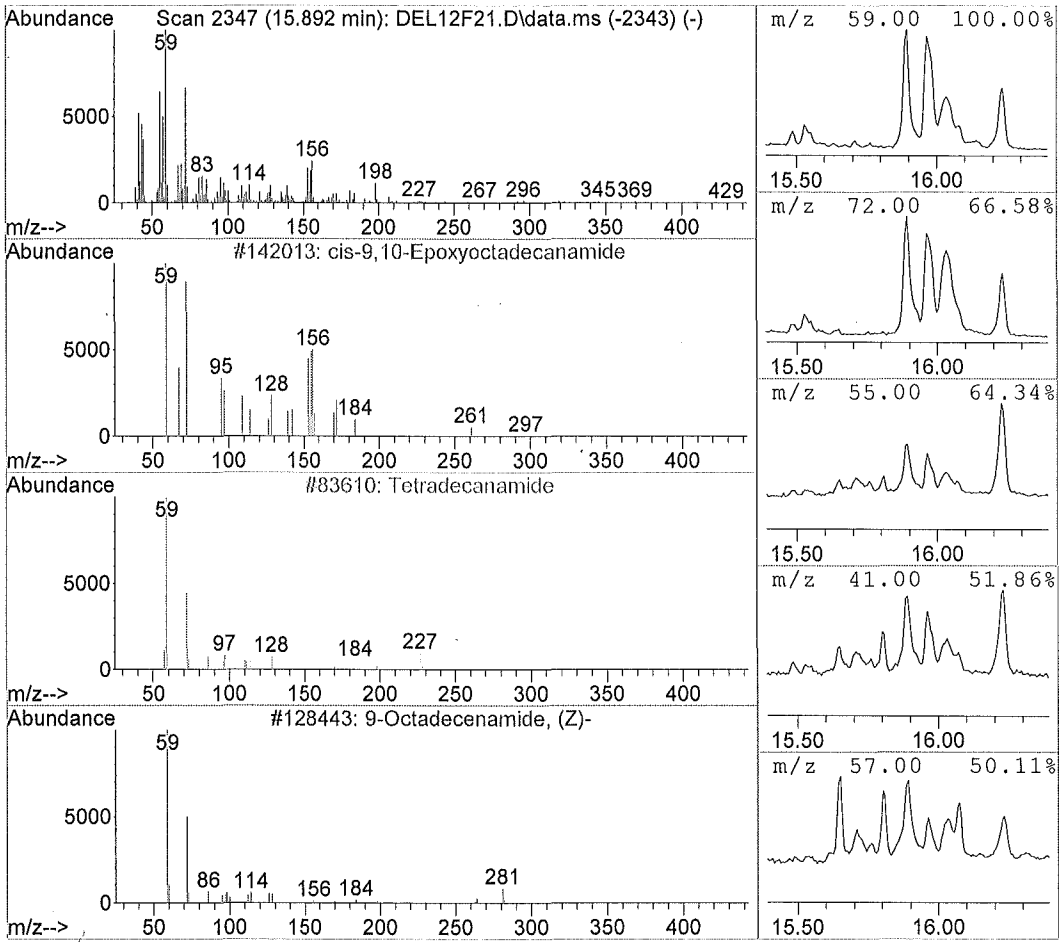


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL12F21.D Vial: 11
Acq On : 06/22/2015 19:15 Operator: DJC
Sample : 1515725021 F9M99 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.89	2.02 ug/ml	491074	Chrysene-d12	4855104

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	cis-9,10-Epoxyoctadecanamide	142013	172995-07-2	64.00
2	Tetradecanamide	83610	000638-58-4	58.00
3	9-Octadecenamide, (Z)-	128443	000301-02-0	52.00
4	Hexanamide	7791	000628-02-4	38.00
5	Butanal, 3-methyl-, oxime	4097	000626-90-4	30.00

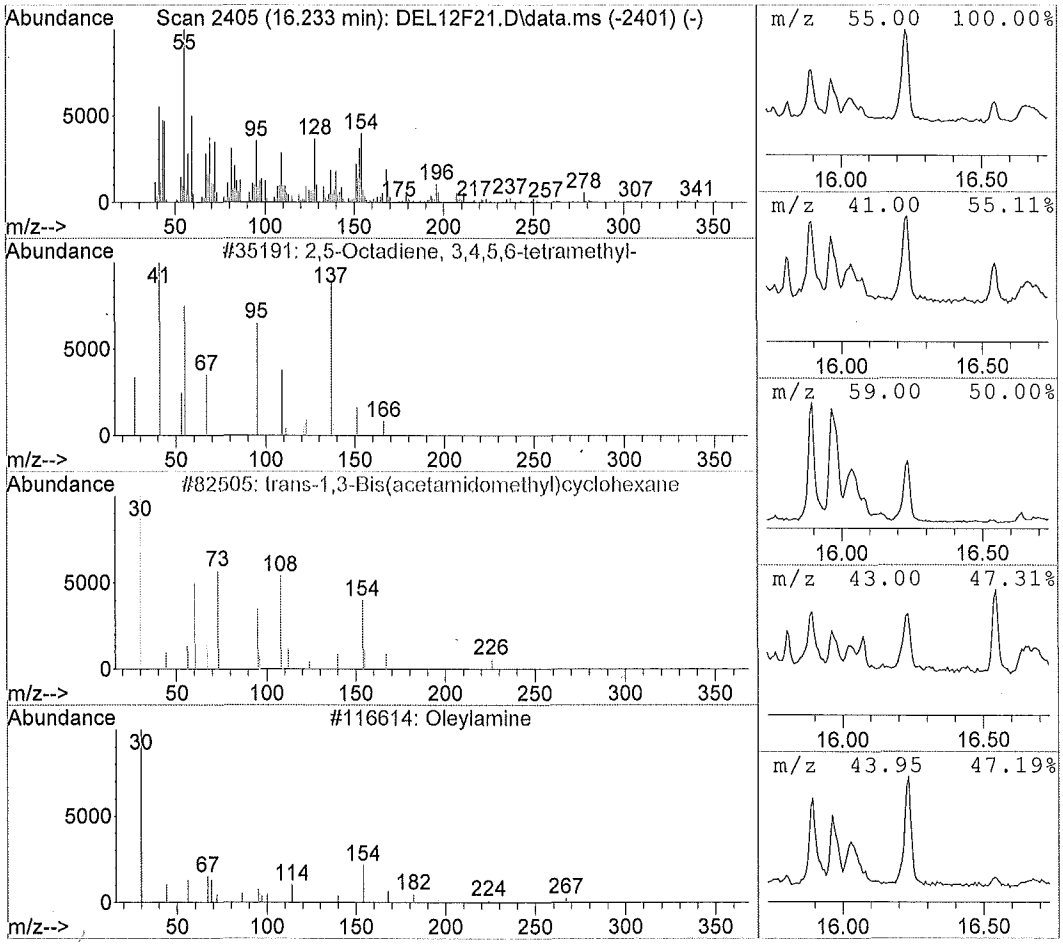


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL12F21.D Vial: 11
Acq On : 06/22/2015 19:15 Operator: DJC
Sample : 1515725021 F9M99 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.23	2.62 ug/ml	635137	Chrysene-d12	4855104

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,5-Octadiene, 3,4,5,6-tetramethyl-	35191	247797-85-9	11.00
2	trans-1,3-Bis(acetamidomethyl)cyclo	82505	070924-82-2	10.00
3	Oleylamine	116614	000112-90-3	10.00
4	Cyclohexanone, 2,6-diethyl-	26737	016519-68-9	9.00
5	2-Butenethioic acid, S-[2-(acetylam	51183	023784-20-5	9.00

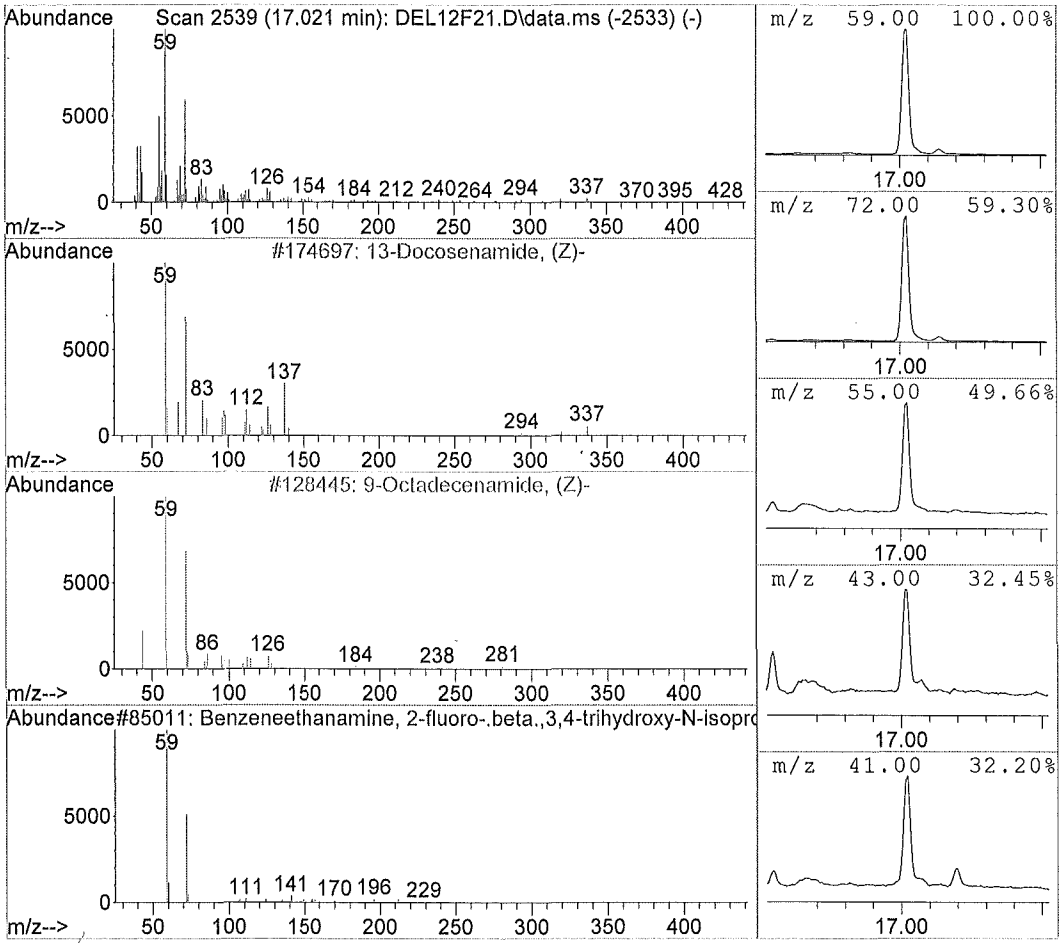


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL12F21.D Vial: 11
Acq On : 06/22/2015 19:15 Operator: DJC
Sample : 1515725021 F9M99 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.02	9.79 ug/ml	2209653	Perylene-d12	4512030

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174697	000112-84-5	93.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	90.00
3	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	64.00
4	Octadecanamide	130204	000124-26-5	53.00
5	7-Nonenamide	28131	090949-53-4	50.00



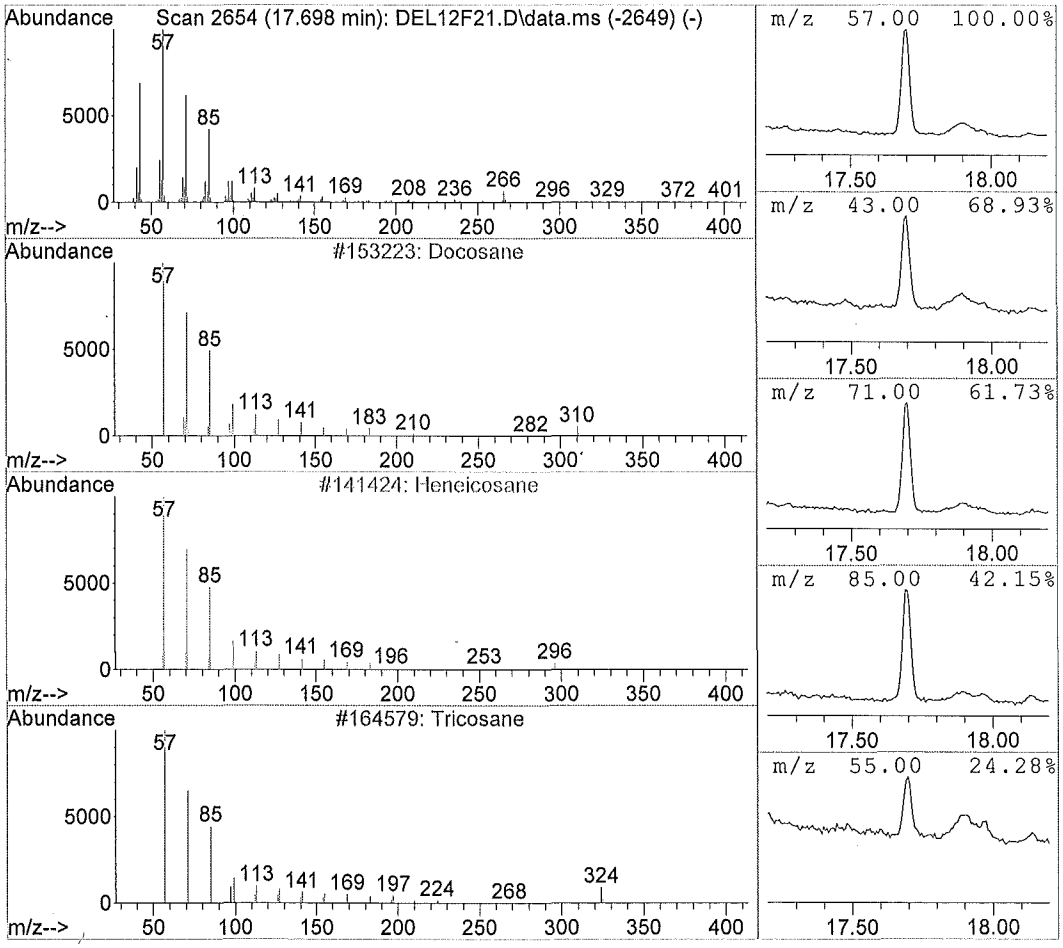
Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL12F21.D Vial: 11
Acq On : 06/22/2015 19:15 Operator: DJC
Sample : 1515725021 F9M99 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.70	2.16 ug/ml	487671	Perylene-d12	4512030

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Docosane	153223	000629-97-0	96.00
2	Heneicosane	141424	000629-94-7	95.00
3	Tricosane	164579	000638-67-5	94.00
4	Heptadecane	94345	000629-78-7	94.00
5	Tridecane, 1-iodo-	152416	035599-77-0	93.00

5A

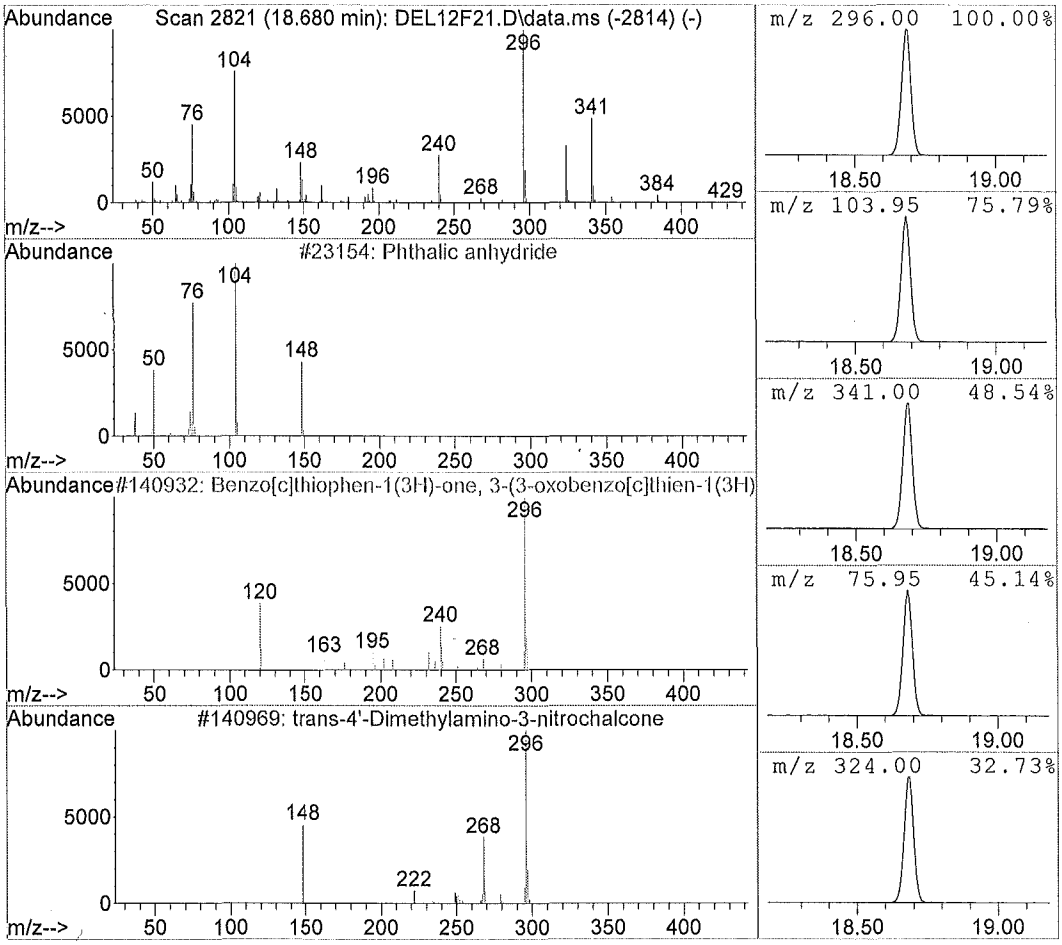


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL12F21.D Vial: 11
Acq On : 06/22/2015 19:15 Operator: DJC
Sample : 1515725021 F9M99 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.68	10.33 ug/ml	2330168	Perylene-d12	4512030

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23154	000085-44-9	27.00
2	Benzo[c]thiophen-1(3H)-one, 3-(3-ox	140932	023667-32-5	22.00
3	trans-4'-Dimethylamino-3-nitrochalc	140969	1000234-56-7	22.00
4	Benzene, 1,1'-(1,2-diethyl-1,2-ethe	141365	007773-34-4	18.00
5	Pyrazol-5(4H)-one, 4-(2-fluoropheny	140873	125910-81-8	14.00

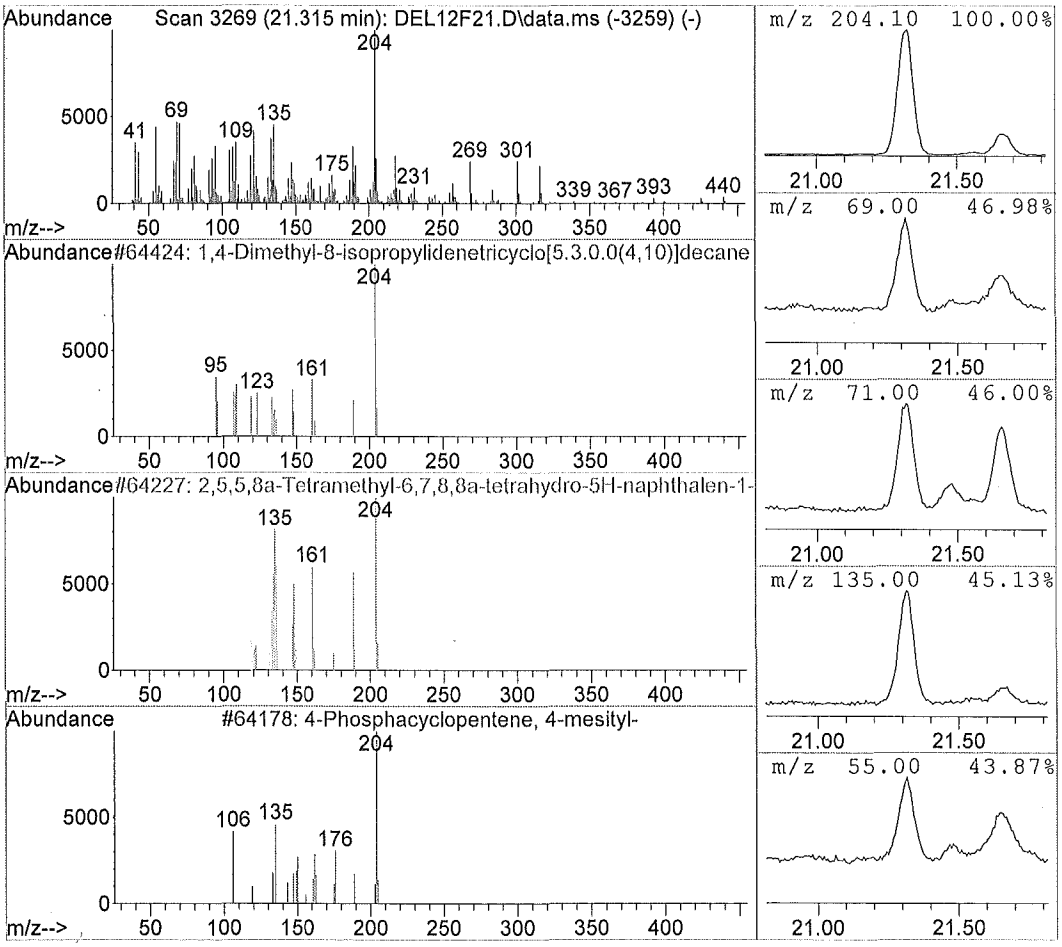


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL12F21.D Vial: 11
Acq On : 06/22/2015 19:15 Operator: DJC
Sample : 1515725021 F9M99 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.32	8.90 ug/ml	2008661	Perylene-d12	4512030

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	51.00
2	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	46.00
3	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	43.00
4	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64575	000489-40-7	35.00
5	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	35.00

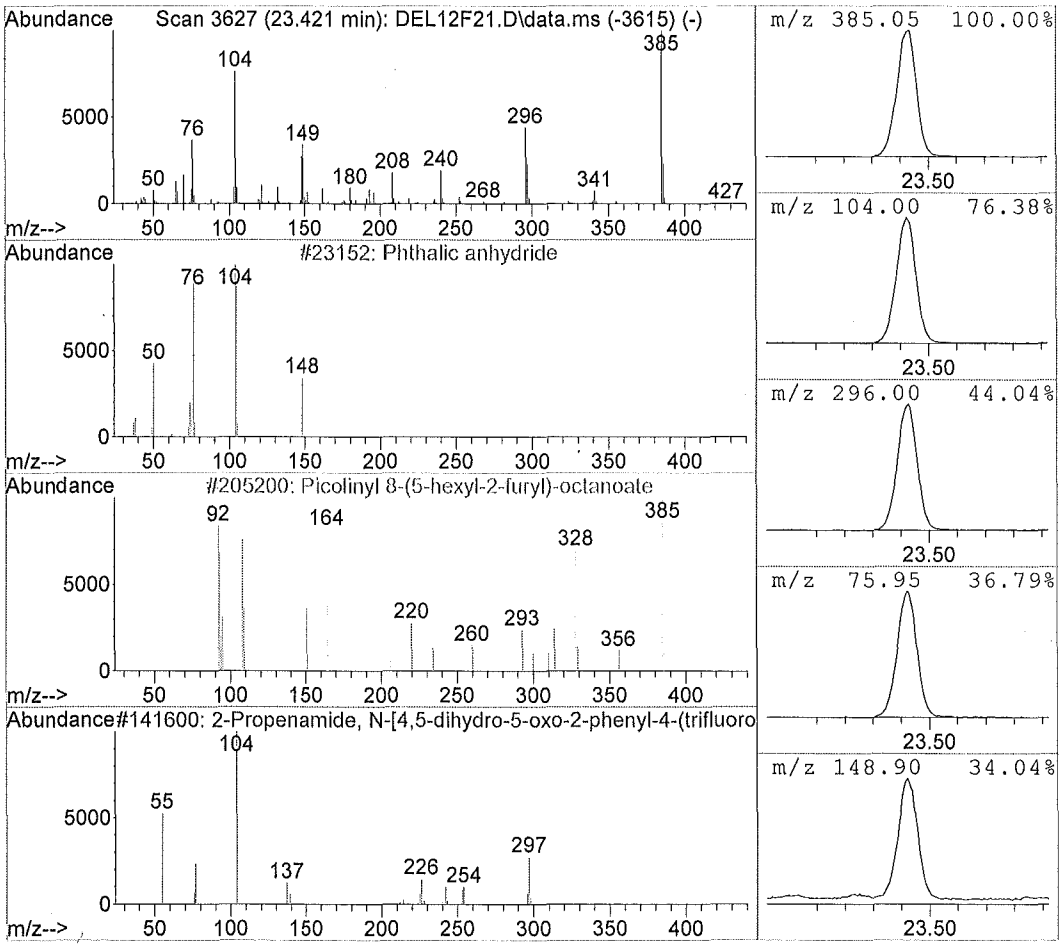


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL12F21.D Vial: 11
Acq On : 06/22/2015 19:15 Operator: DJC
Sample : 1515725021 F9M99 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.42	11.14 ug/ml	2512402	Perylene-d12	4512030

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23152	000085-44-9	22.00
2	Picolinyl 8-(5-hexyl-2-furyl)-octan	205200	1000335-93-0	18.00
3	2-Propenamide, N-[4,5-dihydro-5-oxo	141600	1000350-88-9	14.00
4	(+)-Diethyl L-tartrate	66417	000087-91-2	14.00
5	Xanthine, 1,3-diethyl-8-[4-[[[ethyl	204982	104576-48-9	14.00



6E - FORM VI SV-1
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-D Calibration Date(s): 06/22/2015 06/22/2015

Calibration Time(s): 13:05 15:50

LAB FILE ID: RRF 5.0 = DEL03S05 RRF 10 = DEL04S10

RRF 20 = DEL02S20 RRF 40 = DEL05S40 RRF 80 = DEL06S80

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
Benzaldehyde	0.840	0.825	0.818	0.851	0.775	0.822	3.6
Phenol	1.428	1.413	1.384	1.278	1.466	1.394	5.1
Bis(2-chloroethyl)ether	1.060	1.043	1.039	1.033	1.100	1.055	2.6
2-Chlorophenol	1.254	1.250	1.225	1.125	1.288	1.229	5.0
2-Methylphenol	1.144	1.145	1.077	1.039	1.051	1.091	4.6
2,2'-Oxybis(1-chloropropane)	1.821	1.793	1.743	1.704	1.746	1.761	2.6
Acetophenone	1.575	1.564	1.544	1.637	1.612	1.587	2.4
4-Methylphenol	1.134	1.131	1.091	1.104	1.119	1.116	1.6
N-Nitroso-di-n-propylamine	0.747	0.744	0.737	0.789	0.812	0.766	4.3
Hexachloroethane	0.588	0.586	0.574	0.590	0.604	0.588	1.8
Nitrobenzene	0.354	0.356	0.349	0.351	0.369	0.356	2.3
Isophorone	0.601	0.603	0.593	0.597	0.617	0.602	1.5
2-Nitrophenol	0.199	0.199	0.195	0.183	0.210	0.197	5.0
2,4-Dimethylphenol	0.327	0.327	0.323	0.297	0.344	0.324	5.3
Bis(2-chloroethoxy)methane	0.370	0.371	0.361	0.373	0.402	0.375	4.1
2,4-Dichlorophenol	0.330	0.333	0.333	0.308	0.346	0.330	4.2
Naphthalene	1.017	1.021	1.001	0.928	1.059	1.005	4.8
4-Chloroaniline	0.412	0.425	0.413	0.352	0.393	0.399	7.2
Hexachlorobutadiene	0.242	0.242	0.242	0.254	0.258	0.248	3.1
Caprolactam	0.095	0.097	0.095	0.095	0.091	0.095	2.4
4-Chloro-3-methylphenol	0.274	0.275	0.272	0.254	0.293	0.273	5.1
2-Methylnaphthalene	0.681	0.680	0.675	0.632	0.704	0.675	3.9
Hexachlorocyclopentadiene	0.363	0.397	0.436	0.476	0.492	0.433	12.4
2,4,6-Trichlorophenol	0.404	0.411	0.406	0.383	0.444	0.410	5.4
2,4,5-Trichlorophenol	0.431	0.431	0.425	0.425	0.447	0.432	2.1
1,1'-Biphenyl	1.340	1.365	1.340	1.373	1.365	1.357	1.2
2-Chloronaphthalene	1.107	1.101	1.094	1.125	1.181	1.122	3.1
2-Nitroaniline		0.310	0.307	0.282	0.321	0.305	5.4
Dimethylphthalate	1.214	1.207	1.202	1.225	1.314	1.233	3.8
2,6-Dinitrotoluene	0.266	0.276	0.274	0.280	0.295	0.278	3.8
Acenaphthylene	1.762	1.786	1.766	1.632	1.940	1.777	6.1
3-Nitroaniline		0.298	0.283	0.208	0.217	0.251	18.1
Acenaphthene	1.107	1.120	1.107	1.014	1.206	1.111	6.1
2,4-Dinitrophenol		0.153	0.172	0.172	0.208	0.176	13.1
4-Nitrophenol		0.150	0.155	0.146	0.171	0.155	7.1
Dibenzofuran	1.598	1.595	1.580	1.497	1.666	1.587	3.8

6F - FORM VI SV-2
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-D Calibration Date(s): 06/22/2015 06/22/2015

Calibration Time(s): 13:05 15:50

LAB FILE ID: RRF 5.0 = DEL03S05 RRF 10 = DEL04S10

RRF 20 = DEL02S20 RRF 40 = DEL05S40 RRF 80 = DEL06S80

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
2,4-Dinitrotoluene	0.373	0.380	0.382	0.402	0.428	0.393	5.6
Diethylphthalate	1.210	1.220	1.191	1.221	1.312	1.231	3.8
Fluorene	1.311	1.340	1.340	1.255	1.343	1.318	2.9
4-Chlorophenyl-phenylether	0.670	0.683	0.690	0.708	0.686	0.687	2.0
4-Nitroaniline		0.319	0.302	0.231	0.227	0.270	17.6
4,6-Dinitro-2-methylphenol		0.138	0.146	0.143	0.169	0.149	9.1
N-Nitrosodiphenylamine[1]	0.492	0.500	0.486	0.504	0.536	0.503	3.9
1,2,4,5-Tetrachlorobenzene	0.647	0.644	0.641	0.623	0.665	0.644	2.3
4-Bromophenyl-phenylether	0.226	0.231	0.227	0.237	0.252	0.235	4.7
Hexachlorobenzene	0.247	0.248	0.246	0.259	0.270	0.254	4.0
Atrazine	0.213	0.219	0.214	0.210	0.201	0.211	3.2
Pentachlorophenol		0.127	0.137	0.135	0.168	0.142	12.6
Phenanthrene	1.082	1.100	1.071	0.991	1.141	1.077	5.1
Anthracene	1.115	1.139	1.116	1.030	1.198	1.120	5.4
Carbazole	0.959	0.988	0.930	0.720	0.684	0.856	16.7
Di-n-butylphthalate	1.202	1.220	1.206	1.258	1.319	1.241	3.9
Fluoranthene	1.249	1.295	1.285	1.180	1.343	1.270	4.8
Pyrene	1.111	1.116	1.100	1.010	1.087	1.085	4.0
Butylbenzylphthalate	0.445	0.444	0.444	0.464	0.483	0.456	3.8
3,3'-Dichlorobenzidine	0.388	0.382	0.365	0.329	0.341	0.361	7.1
Benzo(a)anthracene	1.184	1.166	1.156	1.035	1.097	1.128	5.5
Chrysene	1.015	1.025	1.025	0.892	0.820	0.955	9.9
Bis(2-ethylhexyl)phthalate	0.680	0.695	0.704	0.726	0.612	0.683	6.3
Di-n-octylphthalate	1.226	1.226	1.257	1.353	1.344	1.281	4.9
Benzo(b)fluoranthene	1.101	1.157	1.188	1.067	1.310	1.165	8.1
Benzo(k)fluoranthene	1.110	1.096	1.112	1.069	1.153	1.108	2.7
Benzo(a)pyrene	1.090	1.101	1.132	1.058	1.225	1.121	5.7
Indeno(1,2,3-cd)pyrene	1.040	1.069	0.988	0.959	1.181	1.047	8.3
Dibenzo(a,h)anthracene	1.065	1.076	1.007	0.997	1.230	1.075	8.7
Benzo(g,h,i)perylene	1.059	1.072	1.000	0.945	1.157	1.047	7.6
2,3,4,6-Tetrachlorophenol	0.340	0.361	0.368	0.349	0.410	0.366	7.4

[1] Cannot be separated from Diphenylamine

6G - FORM VI SV-3
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-D Calibration Date(s): 06/22/2015 06/22/2015

Calibration Time(s): 13:05 15:50

LAB FILE ID: RRF 5.0 = DEL03S05 RRF 10 = DEL04S10

RRF 20 = DEL02S20 RRF 40 = DEL05S40 RRF 80 = DEL06S80

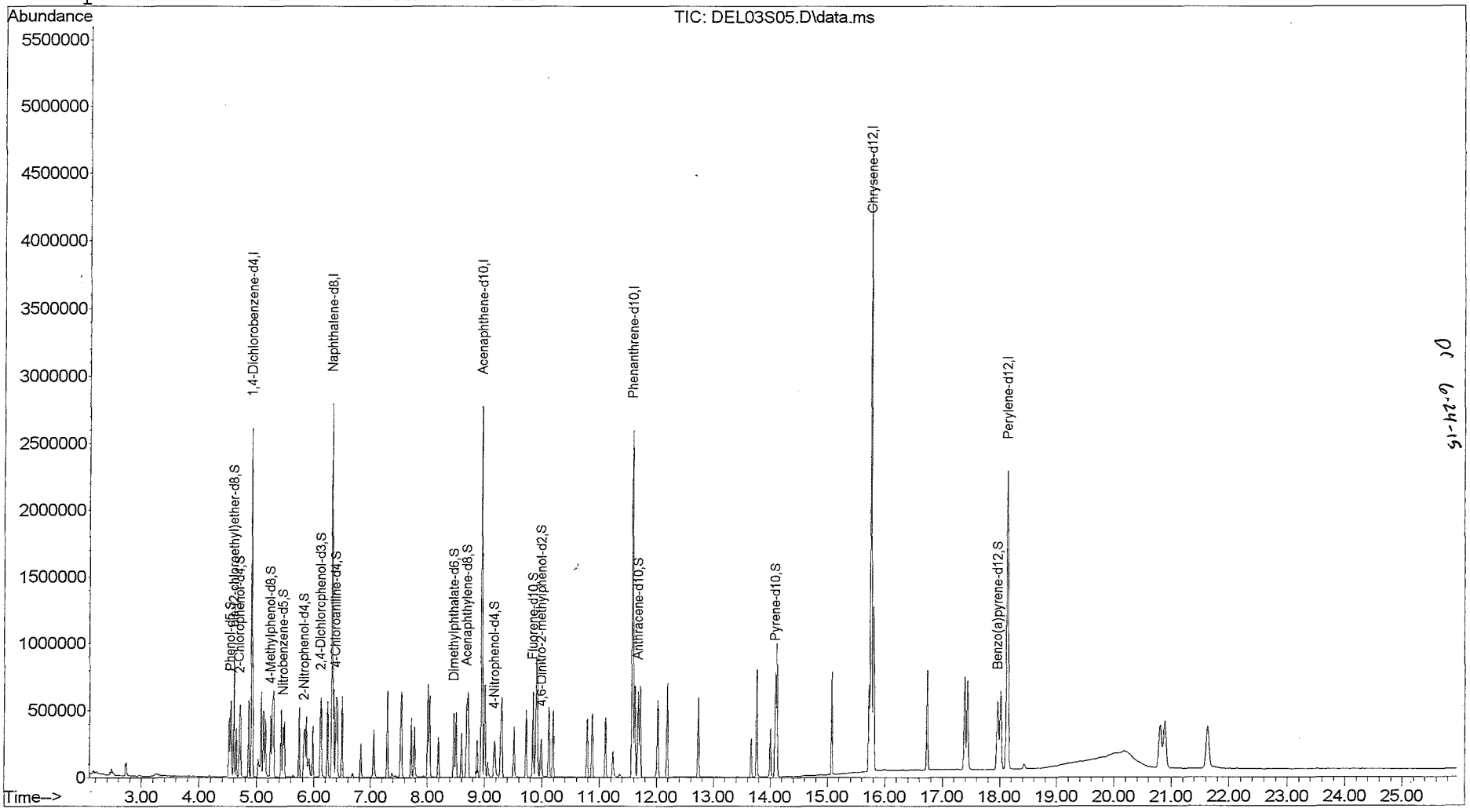
COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
Phenol-d5	1.366	1.375	1.337	1.169	1.310	1.312	6.4
Bis(2-chloroethyl)ether-d8	1.005	1.002	0.988	0.910	1.003	0.982	4.1
2-Chlorophenol-d4	1.274	1.275	1.262	1.120	1.238	1.234	5.3
4-Methylphenol-d8	1.017	1.024	0.990	0.873	0.967	0.974	6.2
Nitrobenzene-d5	0.170	0.169	0.168	0.149	0.167	0.165	5.5
2-Nitrophenol-d4	0.193	0.191	0.190	0.170	0.194	0.188	5.3
2,4-Dichlorophenol-d3	0.330	0.334	0.327	0.296	0.326	0.322	4.7
4-Chloroaniline-d4	0.375	0.380	0.351	0.261	0.277	0.329	17.0
Dimethylphthalate-d6	1.268	1.283	1.264	1.133	1.287	1.247	5.2
Acenaphthylene-d8	1.663	1.682	1.663	1.488	1.698	1.639	5.2
4-Nitrophenol-d4		0.235	0.237	0.212	0.247	0.233	6.3
Fluorene-d10	1.112	1.132	1.119	1.011	1.162	1.107	5.2
4,6-Dinitro-2-methylphenol-d2		0.122	0.129	0.122	0.143	0.129	7.7
Anthracene-d10	1.047	1.079	1.049	0.954	1.078	1.041	4.9
Pyrene-d10	0.842	0.841	0.826	0.757	0.830	0.819	4.3
Benzo(a)pyrene-d12	0.909	0.931	0.950	0.859	0.976	0.925	4.8

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\22JUN15\DEL03S05.D Vial: 2
Acq On : 06/22/2015 13:39 Operator: DJC
Sample : SSTD005DL 28463 (4) Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 22 16:27:53 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 16:33:31 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\22JUN15\DEL03S05.D Vial: 2
Acq On : 06/22/2015 13:39 Operator: DJC
Sample : SSTD005DL 28463 (4) Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 22 16:27:53 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 16:33:31 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.91	152	411480	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1414214	20.00 ug/ml
33) Acenaphthene-d10	8.95	164	887781	20.00 ug/ml
59) Phenanthrene-d10	11.57	188	1591062	20.00 ug/ml
73) Chrysene-d12	15.76	240	1929267	20.00 ug/ml
81) Perylene-d12	18.13	264	1821869	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.54	99	140559	5.110ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	103409	5.086ug/mL
7) 2-Chlorophenol-d4	4.70	132	131100	5.050ug/ml
13) 4-Methylphenol-d8	5.24	113	104609	5.136ug/mL
17) Nitrobenzene-d5	5.46	128	60113	5.046ug/ml
21) 2-Nitrophenol-d4	5.82	143	68188	5.063ug/mL
25) 2,4-Dichlorophenol-d3	6.11	165	116499	5.036ug/mL
28) 4-Chloroaniline-d4	6.38	131	132477	5.344ug/mL
42) Dimethylphthalate-d6	8.46	166	281530	5.018ug/mL
45) Acenaphthylene-d8	8.69	160	369041	4.998ug/mL
50) 4-Nitrophenol-d4	9.17	143	48491	4.608ug/mL
57) Fluorene-d10	9.85	176	246697	4.968ug/mL
61) 4,6-Dinitro-2-methylphenol	9.98	200	42770	4.181ug/mL
69) Anthracene-d10	11.67	188	416273	4.989ug/mL
75) Pyrene-d10	14.09	212	406177	5.097ug/mL
86) Benzo(a)pyrene-d12	17.96	264	413900	4.781ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.52	77	86402	5.135ug/ml 95
4) Phenol	4.55	94	146883	5.160ug/ml 89
5) Bis(2-chloroethyl)ether	4.65	93	109027	5.098ug/ml 96
8) 2-Chlorophenol	4.72	128	129038	5.118ug/ml 99
9) 2-Methylphenol	5.12	108	117723	5.311ug/ml 100
10) 2,2'-Oxybis-(1-chloropropa	5.15	45	187295	5.222ug/ml 100
11) Acetophenone	5.29	105	162062	5.100ug/ml 70
12) 4-methylphenol	5.27	108	116635	5.198ug/ml 98
14) N-Nitroso-di-n-propylamine	5.28	70	76802	5.068ug/ml 77
15) Hexachloroethane	5.43	117	60495	5.120ug/ml 79
18) Nitrobenzene	5.48	77	125172	5.077ug/ml 96
19) Isophorone	5.74	82	212411	5.069ug/ml 92
20) 2-Nitrophenol	5.84	139	70396	5.095ug/ml 98
22) 2,4-Dimethylphenol	5.86	107	115742	5.064ug/ml 93
23) Bis(2-chloroethoxy)methane	5.98	93	130684	5.115ug/ml 98
24) 2,4-Dichlorophenol	6.13	162	116530	4.947ug/ml 95
26) Naphthalene	6.35	128	359711	5.083ug/ml 100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\22JUN15\DEL03S05.D Vial: 2
Acq On : 06/22/2015 13:39 Operator: DJC
Sample : SSTD005DL 28463 (4) Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 22 16:27:53 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 16:33:31 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27) 4-Chloroaniline	6.39	127	145797	4.991ug/ml	98
29) Hexachlorobutadiene	6.49	225	85478	4.987ug/ml	100
30) Caprolactam	6.83	113	33592	4.975ug/ml	91
31) 4-Chloro-3-methylphenol	7.05	107	96793	5.034ug/ml	93
32) 2-Methylnaphthalene	7.30	142	240910	5.049ug/ml	97
34) 1,2,4,5-Tetrachlorobenzene	7.55	216	143513	5.044ug/mL	96
35) Hexachlorocyclopentadiene	7.53	237	80525	4.162ug/ml	98
36) 2,4,6-Trichlorophenol	7.72	196	89586	4.967ug/ml	98
37) 2,4,5-Trichlorophenol	7.77	196	95612	5.067ug/ml	99
38) 1,1'-Biphenyl	8.01	154	297408	5.001ug/ml	97
39) 2-Chloronaphthalene	8.04	162	245722	5.060ug/ml	93
40) 2-Nitroaniline	8.19	65	66847	4.906ug/ml	96
41) Dimethylphthalate	8.50	163	269531	5.050ug/ml	98
43) 2,6-Dinitrotoluene	8.60	165	59086	4.866ug/ml	97
44) Acenaphthylene	8.71	152	391100	4.988ug/ml	99
46) 3-Nitroaniline	8.87	138	64266	5.109ug/ml	97
47) Acenaphthene	9.00	153	245780	5.003ug/ml	92
48) 2,4-Dinitrophenol	9.06	184	27613	3.606ug/ml	100
49) 4-Nitrophenol	9.18	109	32376	4.705ug/ml	96
51) Dibenzofuran	9.30	168	354602	5.056ug/ml	94
52) 2,4-Dinitrotoluene	9.28	165	82835	4.888ug/ml	76
53) 2,3,4,6-Tetrachlorophenol	9.52	232	75548	4.625ug/mL	91
54) Diethylphthalate	9.73	149	268477	5.078ug/ml	99
55) 4-Chlorophenyl-phenylether	9.91	204	148736	4.853ug/ml	88
56) Fluorene	9.90	166	291011	4.891ug/ml	99
58) 4-Nitroaniline	9.92	138	67613	5.045ug/ml	89
60) 4,6-Dinitro-2-methylphenol	9.99	198	49284	4.230ug/ml	95
62) N-Nitrosodiphenylamine	10.12	169	195626	5.062ug/ml	97
63) 4-Bromophenyl-phenyl ether	10.79	248	89855	4.984ug/ml	87
64) Hexachlorobenzene	10.87	284	98422	5.022ug/ml	83
65) Atrazine	11.11	200	84550	4.978ug/ml	98
66) Pentachlorophenol	11.24	266	43592	3.992ug/ml	95
67) Phenanthrene	11.62	178	430273	5.052ug/ml	99
68) Anthracene	11.71	178	443459	4.995ug/ml	99
70) Carbazole	12.02	167	381495	5.159ug/mL	96
71) Di-n-butylphthalate	12.73	149	478212	4.983ug/ml	99
72) Fluoranthene	13.76	202	496723	4.860ug/ml	88
74) Pyrene	14.11	202	535892	5.052ug/ml	87
76) Butylbenzylphthalate	15.07	149	214661	5.007ug/ml	95
77) 3,3'-Dichlorobenzidine	15.72	252	186945	5.314ug/ml	96
78) Benzo(a)anthracene	15.74	228	571095	5.122ug/ml	98
79) Chrysene	15.79	228	489665	4.954ug/ml	98
80) Bis-(2-ethylhexyl)phthalat	15.80	149	328077	4.833ug/ml	98

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 88937

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\22JUN15\DEL03S05.D Vial: 2
Acq On : 06/22/2015 13:39 Operator: DJC
Sample : SSTD005DL 28463 (4) Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 22 16:27:53 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 16:33:31 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.73	149	558553	4.879ug/ml	100
83) Benzo(b)fluoranthene	17.39	252	501436	4.635ug/ml	93
84) Benzo(k)fluoranthene	17.44	252	505717	4.991ug/ml	93
85) Benzo(a)pyrene	18.02	252	496268	4.814ug/ml	93
87) Indeno(1,2,3-c,d)pyrene	20.80	276	473599	5.263ug/ml	77
88) Dibenzo(a,h)anthracene	20.89	278	484984	5.288ug/ml	90
89) Benzo(g,h,i)perylene	21.63	276	482221	5.294ug/ml	85

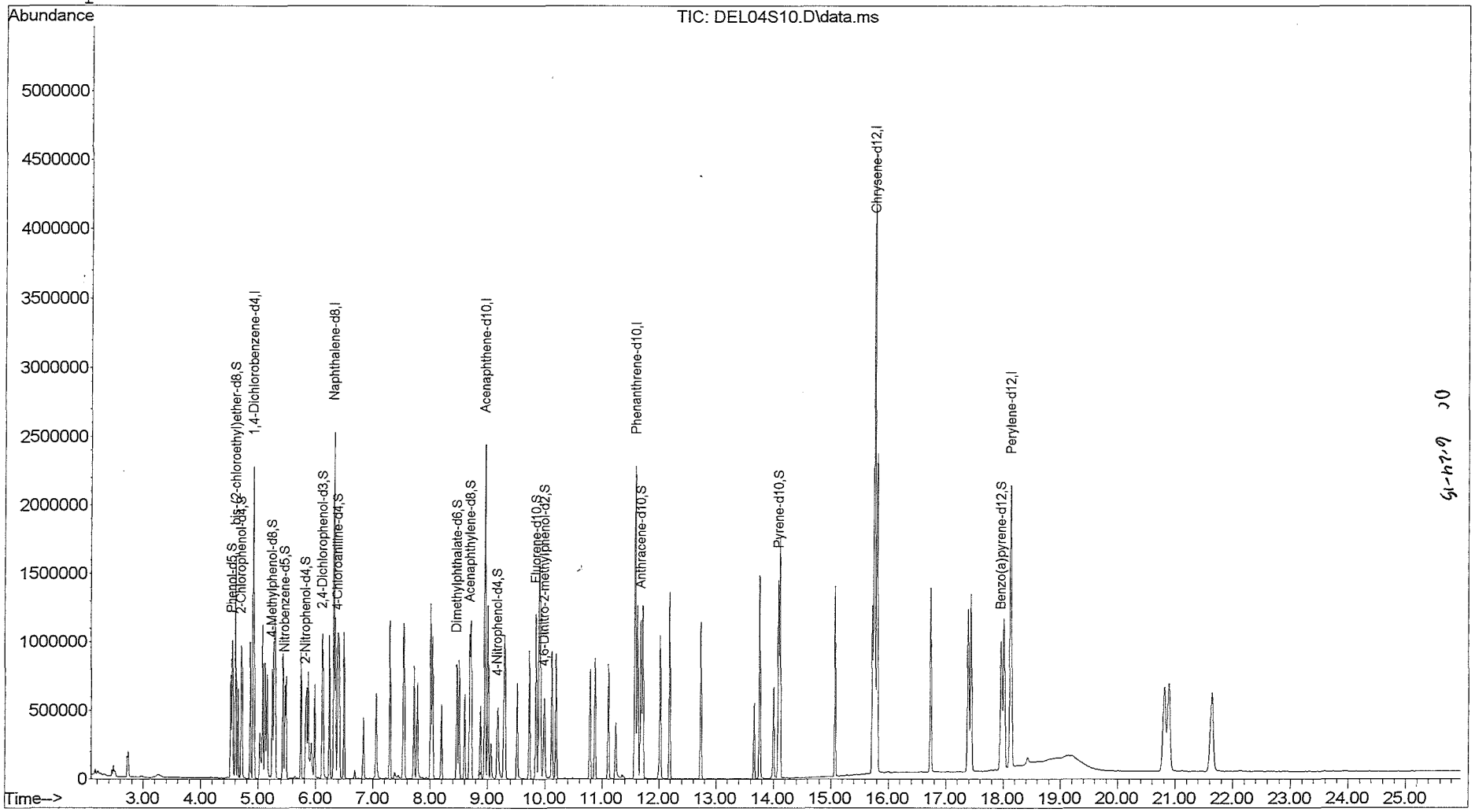
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\22JUN15\DEL04S10.D Vial: 3
Acq On : 06/22/2015 14:13 Operator: DJC
Sample : SSTD010DL 28463 (2) Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 22 16:29:01 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 16:33:31 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\22JUN15\DEL04S10.D Vial: 3
Acq On : 06/22/2015 14:13 Operator: DJC
Sample : SSTD010DL 28463 (2) Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 22 16:29:01 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 16:33:31 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.91	152	367298	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1255569	20.00 ug/ml
33) Acenaphthene-d10	8.95	164	793328	20.00 ug/ml
59) Phenanthrene-d10	11.57	188	1419514	20.00 ug/ml
73) Chrysene-d12	15.76	240	1776805	20.00 ug/ml
81) Perylene-d12	18.13	264	1653679	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.54	99	252506	10.172ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	183954	10.049ug/mL
7) 2-Chlorophenol-d4	4.70	132	234115	10.053ug/ml
13) 4-Methylphenol-d8	5.24	113	188110	10.208ug/mL
17) Nitrobenzene-d5	5.46	128	106169	9.993ug/ml
21) 2-Nitrophenol-d4	5.82	143	120165	9.987ug/mL
25) 2,4-Dichlorophenol-d3	6.11	165	209515	10.165ug/mL
28) 4-Chloroaniline-d4	6.38	131	238575	10.479ug/mL
42) Dimethylphthalate-d6	8.47	166	508846	10.131ug/mL
45) Acenaphthylene-d8	8.69	160	667360	10.117ug/mL
50) 4-Nitrophenol-d4	9.17	143	93265	9.919ug/mL
57) Fluorene-d10	9.85	176	449202	10.156ug/mL
61) 4,6-Dinitro-2-methylphenol	9.98	200	86873	9.518ug/mL
69) Anthracene-d10	11.68	188	765733	10.298ug/mL
75) Pyrene-d10	14.09	212	747103	10.082ug/mL
86) Benzo(a)pyrene-d12	17.96	264	769744	10.015ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.52	77	151496	9.952ug/ml 95
4) Phenol	4.55	94	259487	10.052ug/ml 88
5) Bis(2-chloroethyl)ether	4.65	93	191527	9.935ug/ml 97
8) 2-Chlorophenol	4.72	128	229631	10.085ug/ml 99
9) 2-Methylphenol	5.12	108	210229	10.305ug/ml 97
10) 2,2'-Oxybis-(1-chloropropa	5.15	45	329318	10.063ug/ml 100
11) Acetophenone	5.29	105	287223	10.026ug/ml 93
12) 4-methylphenol	5.27	108	207688	10.168ug/ml 98
14) N-Nitroso-di-n-propylamine	5.28	70	136684	10.036ug/ml 78
15) Hexachloroethane	5.43	117	107648	10.086ug/ml 81
18) Nitrobenzene	5.48	77	223519	10.133ug/ml 96
19) Isophorone	5.74	82	378860	10.113ug/ml 92
20) 2-Nitrophenol	5.84	139	124673	10.068ug/ml 99
22) 2,4-Dimethylphenol	5.86	107	204999	10.039ug/ml 93
23) Bis(2-chloroethoxy)methane	5.98	93	233168	10.162ug/ml 98
24) 2,4-Dichlorophenol	6.13	162	209165	10.055ug/ml 95
26) Naphthalene	6.35	128	641082	10.120ug/ml 100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00548

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\22JUN15\DEL04S10.D Vial: 3
Acq On : 06/22/2015 14:13 Operator: DJC
Sample : SSTD010DL 28463 (2) Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 22 16:29:01 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 16:33:31 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.40	127	266640	10.290ug/ml	99
29)	Hexachlorobutadiene	6.49	225	152118	10.009ug/ml	99
30)	Caprolactam	6.83	113	60751	10.159ug/ml	90
31)	4-Chloro-3-methylphenol	7.05	107	172660	10.080ug/ml	92
32)	2-Methylnaphthalene	7.30	142	427017	10.031ug/ml	95
34)	1,2,4,5-Tetrachlorobenzene	7.55	216	255517	10.006ug/mL	97
35)	Hexachlorocyclopentadiene	7.53	237	157486	9.943ug/ml	98
36)	2,4,6-Trichlorophenol	7.72	196	162853	10.138ug/ml	99
37)	2,4,5-Trichlorophenol	7.77	196	171002	10.074ug/ml	98
38)	1,1'-Biphenyl	8.01	154	541277	10.185ug/ml	97
39)	2-Chloronaphthalene	8.04	162	436832	10.006ug/ml	93
40)	2-Nitroaniline	8.20	65	122854	10.090ug/ml	96
41)	Dimethylphthalate	8.50	163	478757	9.988ug/ml	99
43)	2,6-Dinitrotoluene	8.60	165	109353	10.215ug/ml	96
44)	Acenaphthylene	8.72	152	708522	10.124ug/ml	98
46)	3-Nitroaniline	8.87	138	118029	10.500ug/ml	96
47)	Acenaphthene	9.00	153	444228	10.116ug/ml	93
48)	2,4-Dinitrophenol	9.06	184	60825	8.890ug/ml	100
49)	4-Nitrophenol	9.18	109	59533	9.681ug/ml	97
51)	Dibenzofuran	9.30	168	632511	10.036ug/ml	94
52)	2,4-Dinitrotoluene	9.28	165	150755	10.067ug/ml	76
53)	2,3,4,6-Tetrachlorophenol	9.52	232	143047	10.181ug/mL	92
54)	Diethylphthalate	9.73	149	483968	10.164ug/ml	99
55)	4-Chlorophenyl-phenylether	9.92	204	270820	10.036ug/ml	88
56)	Fluorene	9.90	166	531704	10.111ug/ml	99
58)	4-Nitroaniline	9.93	138	126567	10.569ug/ml	86
60)	4,6-Dinitro-2-methylphenol	9.99	198	97811	9.410ug/ml	95
62)	N-Nitrosodiphenylamine	10.12	169	354957	10.231ug/ml	96
63)	4-Bromophenyl-phenyl ether	10.79	248	163796	10.199ug/ml	87
64)	Hexachlorobenzene	10.87	284	175854	10.035ug/ml	83
65)	Atrazine	11.11	200	155779	10.303ug/ml	98
66)	Pentachlorophenol	11.24	266	90307	9.268ug/ml	96
67)	Phenanthrene	11.62	178	780485	10.219ug/ml	99
68)	Anthracene	11.72	178	808311	10.210ug/ml	99
70)	Carbazole	12.02	167	701416	10.465ug/mL	96
71)	Di-n-butylphthalate	12.73	149	865935	10.130ug/ml	99
72)	Fluoranthene	13.76	202	919484	10.227ug/ml	88
74)	Pyrene	14.11	202	991570	10.097ug/ml	86
76)	Butylbenzylphthalate	15.07	149	394609	9.987ug/ml	95
77)	3,3'-Dichlorobenzidine	15.72	252	339537	10.161ug/ml	96
78)	Benzo(a)anthracene	15.74	228	1036313	9.970ug/ml	97
79)	Chrysene	15.79	228	910433	10.048ug/ml	97
80)	Bis-(2-ethylhexyl)phthalat	15.81	149	617047	10.037ug/ml	98

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

09944

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\22JUN15\DEL04S10.D Vial: 3
Acq On : 06/22/2015 14:13 Operator: DJC
Sample : SSTD010DL 28463 (2) Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 22 16:29:01 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 16:33:31 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.73	149	1013546	9.873ug/ml	100
83) Benzo(b)fluoranthene	17.39	252	956947	10.114ug/ml	93
84) Benzo(k)fluoranthene	17.44	252	906431	9.864ug/ml	93
85) Benzo(a)pyrene	18.02	252	910390	9.914ug/ml	92
87) Indeno(1,2,3-c,d)pyrene	20.81	276	883941	10.545ug/ml	76
88) Dibenzo(a,h)anthracene	20.89	278	889290	10.383ug/ml	90
89) Benzo(g,h,i)perylene	21.64	276	885993	10.410ug/ml	86

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

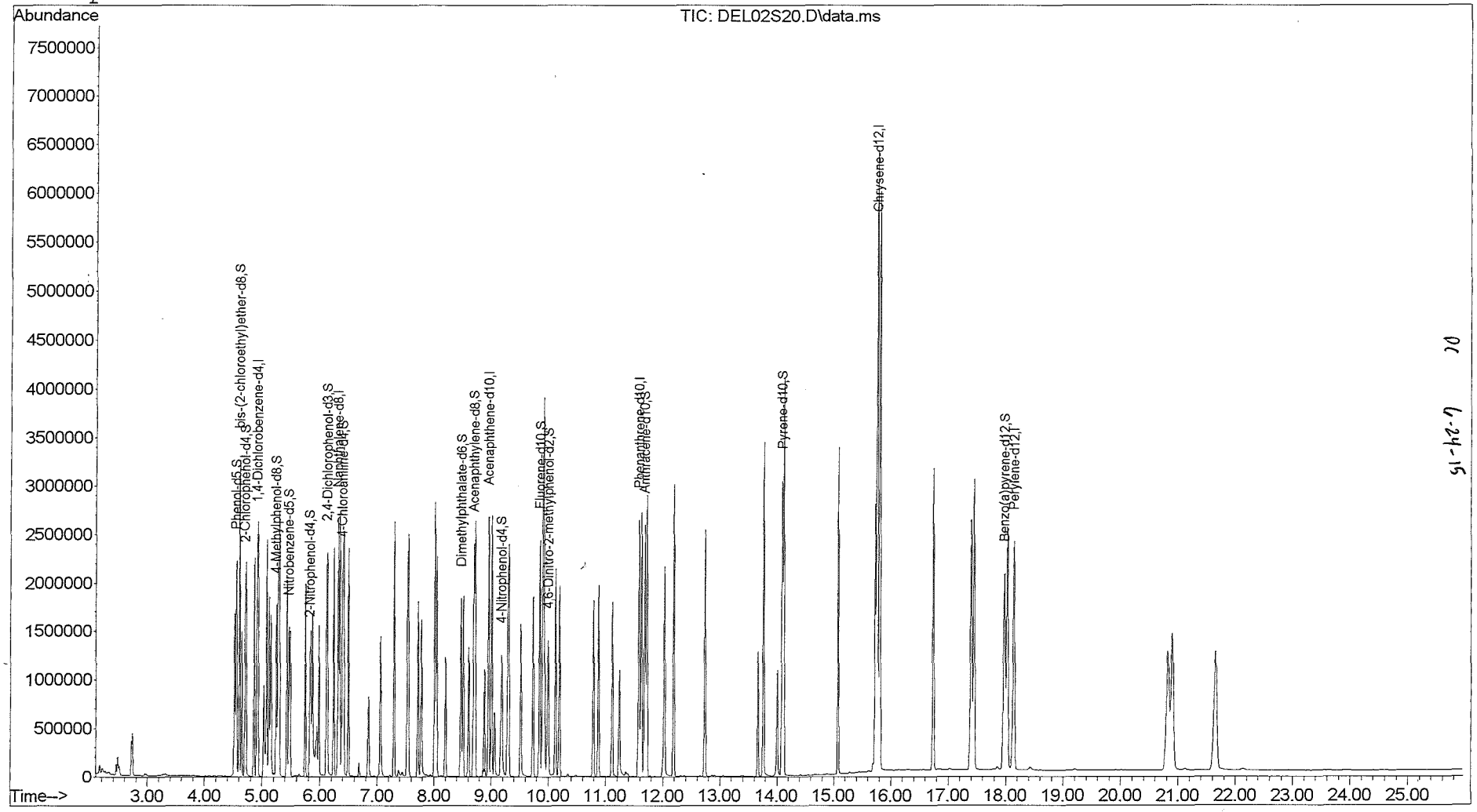
: 88942

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\22JUN15\DEL02S20.D Vial: 1
Acq On : 06/22/2015 13:05 Operator: DJC
Sample : SSTD020DL 28463 DFTPPDL Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 22 16:26:30 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 16:33:31 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\22JUN15\DEL02S20.D Vial: 1
Acq On : 06/22/2015 13:05 Operator: DJC
Sample : SSTD020DL 28463 DFTPPDL Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 22 16:26:30 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 16:33:31 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.91	152	411445	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1389566	20.00 ug/ml
33) Acenaphthene-d10	8.95	164	878032	20.00 ug/ml
59) Phenanthrene-d10	11.58	188	1586377	20.00 ug/ml
73) Chrysene-d12	15.76	240	1999621	20.00 ug/ml
81) Perylene-d12	18.14	264	1813788	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.55	99	550087	21.283ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	406604	21.437ug/mL
7) 2-Chlorophenol-d4	4.70	132	519118	20.337ug/ml
13) 4-Methylphenol-d8	5.25	113	407306	21.066ug/mL
17) Nitrobenzene-d5	5.46	128	234088	20.449ug/ml
21) 2-Nitrophenol-d4	5.82	143	264640	19.559ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	454561	20.742ug/mL
28) 4-Chloroaniline-d4	6.39	131	487178	26.735ug/mL
42) Dimethylphthalate-d6	8.47	166	1109806	20.368ug/mL
45) Acenaphthylene-d8	8.69	160	1460434	20.497ug/mL
50) 4-Nitrophenol-d4	9.17	143	208135	22.446ug/mL
57) Fluorene-d10	9.85	176	982190	20.465ug/mL
61) 4,6-Dinitro-2-methylphenol	9.99	200	203995	20.328ug/mL
69) Anthracene-d10	11.68	188	1663797	20.440ug/mL
75) Pyrene-d10	14.09	212	1651787	19.787ug/mL
86) Benzo(a)pyrene-d12	17.97	264	1723761	20.640ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.52	77	336511	20.438ug/ml 94
4) Phenol	4.56	94	569243	21.473ug/ml 88
5) Bis(2-chloroethyl)ether	4.65	93	427691	18.800ug/ml 98
8) 2-Chlorophenol	4.72	128	504174	20.792ug/ml 99
9) 2-Methylphenol	5.12	108	443280	21.525ug/ml 99
10) 2,2'-Oxybis-(1-chloropropa	5.15	45	717292	21.239ug/ml 100
11) Acetophenone	5.30	105	635447	21.598ug/ml 70
12) 4-methylphenol	5.27	108	448717	21.034ug/ml 97
14) N-Nitroso-di-n-propylamine	5.29	70	303087	21.044ug/ml 80
15) Hexachloroethane	5.43	117	236268	20.696ug/ml 80
18) Nitrobenzene	5.49	77	484501	21.671ug/ml 96
19) Isophorone	5.75	82	823535	21.350ug/ml 93
20) 2-Nitrophenol	5.84	139	271492	20.128ug/ml 98
22) 2,4-Dimethylphenol	5.87	107	449112	20.557ug/ml 93
23) Bis(2-chloroethoxy)methane	5.98	93	502085	20.290ug/ml 98
24) 2,4-Dichlorophenol	6.13	162	462886	21.220ug/ml 96
26) Naphthalene	6.35	128	1390592	20.876ug/ml 100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\22JUN15\DEL02S20.D Vial: 1
Acq On : 06/22/2015 13:05 Operator: DJC
Sample : SSTD020DL 28463 DFTPPDL Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 22 16:26:30 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 16:33:31 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.40	127	574068	26.526ug/ml	99
29)	Hexachlorobutadiene	6.49	225	336852	20.329ug/ml	99
30)	Caprolactam	6.85	113	132695	22.485ug/ml	90
31)	4-Chloro-3-methylphenol	7.06	107	377859	20.711ug/ml	92
32)	2-Methylnaphthalene	7.30	142	937622	20.788ug/ml	96
34)	1,2,4,5-Tetrachlorobenzene	7.55	216	562752	20.374ug/mL	97
35)	Hexachlorocyclopentadiene	7.53	237	382667	23.026ug/ml	98
36)	2,4,6-Trichlorophenol	7.72	196	356758	20.782ug/ml	99
37)	2,4,5-Trichlorophenol	7.77	196	373262	20.566ug/ml	98
38)	1,1'-Biphenyl	8.01	154	1176242	21.315ug/ml	96
39)	2-Chloronaphthalene	8.05	162	960644	20.782ug/ml	93
40)	2-Nitroaniline	8.20	65	269519	21.849ug/ml	96
41)	Dimethylphthalate	8.51	163	1055686	20.297ug/ml	99
43)	2,6-Dinitrotoluene	8.60	165	240181	21.065ug/ml	95
44)	Acenaphthylene	8.72	152	1550971	21.313ug/ml	98
46)	3-Nitroaniline	8.88	138	248828	27.831ug/ml	97
47)	Acenaphthene	9.01	153	971796	21.399ug/ml	92
48)	2,4-Dinitrophenol	9.06	184	151448	21.487ug/ml	100
49)	4-Nitrophenol	9.19	109	136114	24.253ug/ml	97
51)	Dibenzofuran	9.30	168	1387413	20.750ug/ml	94
52)	2,4-Dinitrotoluene	9.29	165	335242	21.639ug/ml	77
53)	2,3,4,6-Tetrachlorophenol	9.52	232	323126	21.620ug/mL	92
54)	Diethylphthalate	9.73	149	1045883	20.098ug/ml	99
55)	4-Chlorophenyl-phenylether	9.91	204	606230	21.258ug/ml	88
56)	Fluorene	9.90	166	1176837	22.076ug/ml	98
58)	4-Nitroaniline	9.93	138	265088	24.475ug/ml	86
60)	4,6-Dinitro-2-methylphenol	10.00	198	232313	20.766ug/ml	93
62)	N-Nitrosodiphenylamine	10.12	169	770700	20.204ug/ml	96
63)	4-Bromophenyl-phenyl ether	10.79	248	359527	19.514ug/ml	87
64)	Hexachlorobenzene	10.87	284	390816	19.981ug/ml	83
65)	Atrazine	11.12	200	338696	21.422ug/ml	98
66)	Pentachlorophenol	11.24	266	217780	21.209ug/ml	98
67)	Phenanthrene	11.62	178	1698248	21.360ug/ml	99
68)	Anthracene	11.72	178	1770540	21.595ug/ml	98
70)	Carbazole	12.02	167	1474696	22.006ug/mL	96
71)	Di-n-butylphthalate	12.73	149	1913908	20.845ug/ml	99
72)	Fluoranthene	13.76	202	2038057	22.176ug/ml	88
74)	Pyrene	14.12	202	2198908	21.286ug/ml	87
76)	Butylbenzylphthalate	15.07	149	888770	20.188ug/ml	95
77)	3,3'-Dichlorobenzidine	15.72	252	729221	21.314ug/ml	95
78)	Benzo(a)anthracene	15.75	228	2311291	21.869ug/ml	97
79)	Chrysene	15.80	228	2048860	21.555ug/ml	97
80)	Bis-(2-ethylhexyl)phthalat	15.81	149	1407195	20.522ug/ml	99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\22JUN15\DEL02S20.D Vial: 1
Acq On : 06/22/2015 13:05 Operator: DJC
Sample : SSTD020DL 28463 DFTPPDL Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 22 16:26:30 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 16:33:31 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.74	149	2279486	21.360ug/ml	99
83) Benzo(b)fluoranthene	17.40	252	2154177	22.144ug/ml	92
84) Benzo(k)fluoranthene	17.44	252	2017726	21.230ug/ml	93
85) Benzo(a)pyrene	18.03	252	2052630	21.671ug/ml	92
87) Indeno(1,2,3-c,d)pyrene	20.82	276	1791784	20.150ug/ml	79
88) Dibenzo(a,h)anthracene	20.90	278	1826203	20.021ug/ml	90
89) Benzo(g,h,i)perylene	21.66	276	1813700	20.184ug/ml	87

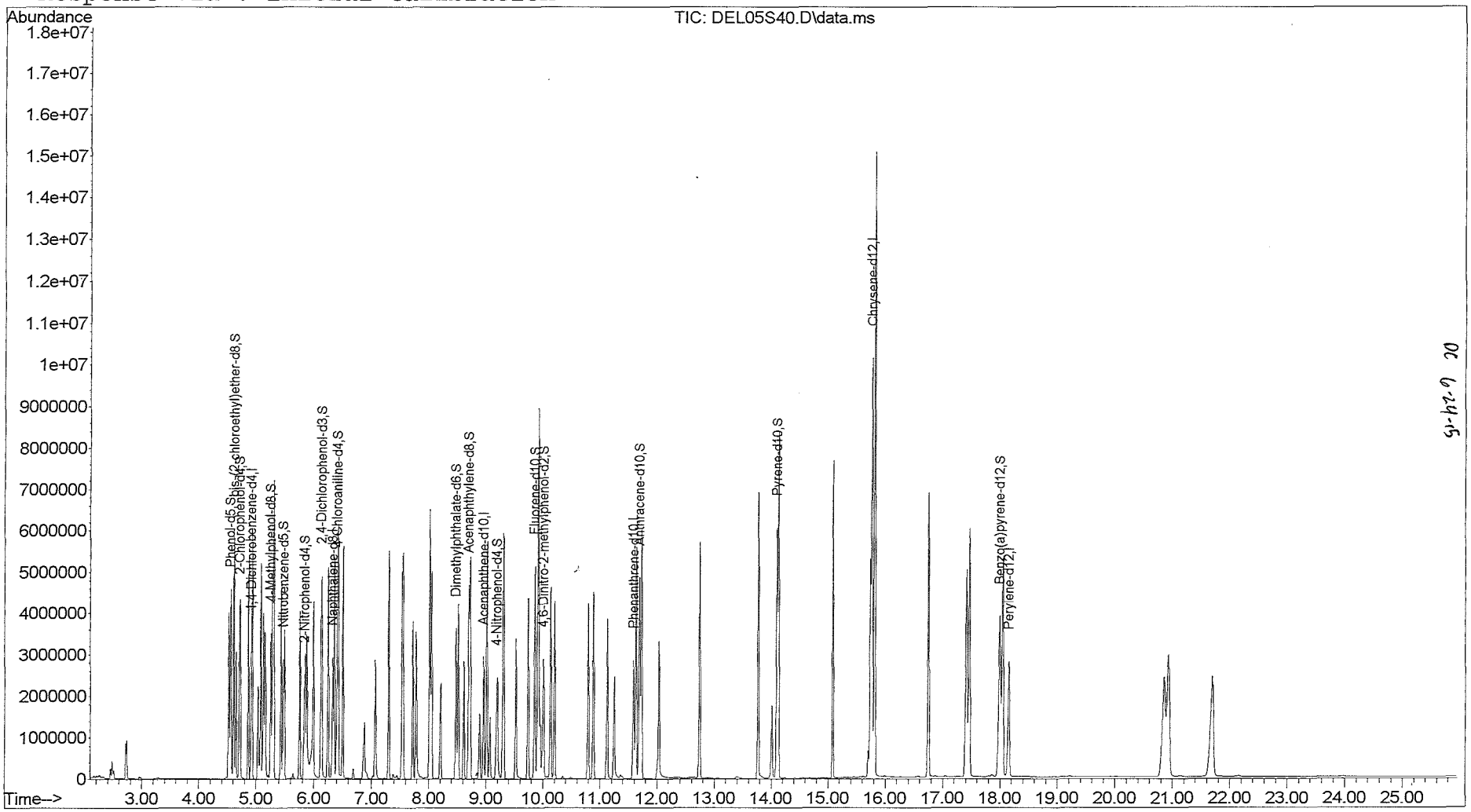
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\22JUN15\DEL05S40.D Vial: 4
Acq On : 06/22/2015 15:16 Operator: DJC
Sample : SSTD040DL 28467 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 22 16:30:12 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 16:33:31 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\22JUN15\DEL05S40.D Vial: 4
Acq On : 06/22/2015 15:16 Operator: DJC
Sample : SSTD040DL 28467 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 22 16:30:12 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 16:33:31 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.91	152	466987	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1565696	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	986757	20.00 ug/ml
59) Phenanthrene-d10	11.59	188	1761761	20.00 ug/ml
73) Chrysene-d12	15.77	240	2251695	20.00 ug/ml
81) Perylene-d12	18.15	264	1997714	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.55	99	1092273	34.411ug/ml
6) bis-(2-chloroethyl)ether-d	4.61	67	849890	36.458ug/mL
7) 2-Chlorophenol-d4	4.70	132	1045905	35.262ug/ml
13) 4-Methylphenol-d8	5.25	113	815739	34.577ug/mL
17) Nitrobenzene-d5	5.47	128	465262	35.125ug/ml
21) 2-Nitrophenol-d4	5.83	143	531982	35.472ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	925519	35.812ug/mL
28) 4-Chloroaniline-d4	6.40	131	817151	28.331ug/mL
42) Dimethylphthalate-d6	8.47	166	2235242	35.624ug/mL
45) Acenaphthylene-d8	8.70	160	2936570	35.651ug/mL
50) 4-Nitrophenol-d4	9.19	143	418845	35.959ug/mL
57) Fluorene-d10	9.86	176	1994249	36.062ug/mL
61) 4,6-Dinitro-2-methylphenol	10.00	200	428179	38.733ug/mL
69) Anthracene-d10	11.69	188	3361265	36.064ug/mL
75) Pyrene-d10	14.09	212	3408279	36.195ug/mL
86) Benzo(a)pyrene-d12	17.99	264	3430113	36.924ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.52	77	794627	41.123ug/ml 94
4) Phenol	4.56	94	1193262	36.293ug/ml 89
5) Bis(2-chloroethyl)ether	4.65	93	964739	39.447ug/ml 98
8) 2-Chlorophenol	4.72	128	1051102	36.205ug/ml 99
9) 2-Methylphenol	5.12	108	970326	37.033ug/ml 100
10) 2,2'-Oxybis-(1-chloropropa	5.15	45	1591190	38.162ug/ml 100
11) Acetophenone	5.30	105	1529064	41.944ug/ml 64
12) 4-methylphenol	5.28	108	1031548	39.501ug/ml 97
14) N-Nitroso-di-n-propylamine	5.29	70	736904	42.505ug/ml 82
15) Hexachloroethane	5.43	117	550844	40.478ug/ml 79
18) Nitrobenzene	5.49	77	1100013	39.815ug/ml 96
19) Isophorone	5.75	82	1870850	39.898ug/ml 94
20) 2-Nitrophenol	5.85	139	572428	36.987ug/ml 98
22) 2,4-Dimethylphenol	5.87	107	928621	36.420ug/ml 95
23) Bis(2-chloroethoxy)methane	5.99	93	1169156	40.643ug/ml 98
24) 2,4-Dichlorophenol	6.13	162	963327	37.069ug/ml 96
26) Naphthalene	6.35	128	2905145	36.630ug/ml 100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\22JUN15\DEL05S40.D Vial: 4
Acq On : 06/22/2015 15:16 Operator: DJC
Sample : SSTD040DL 28467 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 22 16:30:12 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 16:33:31 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.41	127	1102799	33.802ug/ml	99
29)	Hexachlorobutadiene	6.50	225	794757	41.922ug/ml	100
30)	Caprolactam	6.87	113	296346	39.531ug/ml	92
31)	4-Chloro-3-methylphenol	7.06	107	794635	37.103ug/ml	94
32)	2-Methylnaphthalene	7.30	142	1979313	37.248ug/ml	96
34)	1,2,4,5-Tetrachlorobenzene	7.55	216	1228787	38.679ug/mL	97
35)	Hexachlorocyclopentadiene	7.53	237	939224	47.764ug/ml	98
36)	2,4,6-Trichlorophenol	7.72	196	756548	37.691ug/ml	99
37)	2,4,5-Trichlorophenol	7.78	196	838026	39.593ug/ml	99
38)	1,1'-Biphenyl	8.02	154	2710479	40.752ug/ml	96
39)	2-Chloronaphthalene	8.05	162	2221188	40.896ug/ml	94
40)	2-Nitroaniline	8.21	65	556225	36.563ug/ml	97
41)	Dimethylphthalate	8.52	163	2417671	40.568ug/ml	99
43)	2,6-Dinitrotoluene	8.62	165	551943	41.157ug/ml	95
44)	Acenaphthylene	8.72	152	3221582	36.858ug/ml	98
46)	3-Nitroaniline	8.89	138	411372	28.704ug/ml	96
47)	Acenaphthene	9.02	153	2000326	36.481ug/ml	93
48)	2,4-Dinitrophenol	9.07	184	338538	42.118ug/ml	100
49)	4-Nitrophenol	9.20	109	287508	38.199ug/ml	97
51)	Dibenzofuran	9.31	168	2953567	37.631ug/ml	96
52)	2,4-Dinitrotoluene	9.30	165	792701	42.464ug/ml	81
53)	2,3,4,6-Tetrachlorophenol	9.52	232	688097	39.138ug/mL	92
54)	Diethylphthalate	9.74	149	2410085	40.472ug/ml	99
55)	4-Chlorophenyl-phenylether	9.92	204	1396798	41.566ug/ml	91
56)	Fluorene	9.91	166	2475962	37.714ug/ml	99
58)	4-Nitroaniline	9.95	138	455727	29.749ug/ml	84
60)	4,6-Dinitro-2-methylphenol	10.01	198	504301	40.281ug/ml	91
62)	N-Nitrosodiphenylamine	10.13	169	1774168	40.888ug/ml	97
63)	4-Bromophenyl-phenyl ether	10.79	248	834947	41.615ug/ml	88
64)	Hexachlorobenzene	10.88	284	910993	41.838ug/ml	84
65)	Atrazine	11.13	200	741033	39.094ug/ml	98
66)	Pentachlorophenol	11.25	266	475075	40.777ug/ml	97
67)	Phenanthrene	11.63	178	3490219	36.553ug/ml	99
68)	Anthracene	11.73	178	3630247	36.689ug/ml	98
70)	Carbazole	12.03	167	2535779	30.018ug/mL	97
71)	Di-n-butylphthalate	12.74	149	4431844	41.594ug/ml	99
72)	Fluoranthene	13.77	202	4156396	36.969ug/ml	89
74)	Pyrene	14.12	202	4549255	36.437ug/ml	88
76)	Butylbenzylphthalate	15.08	149	2091465	41.786ug/ml	95
77)	3,3'-Dichlorobenzidine	15.73	252	1480394	34.772ug/ml	96
78)	Benzo(a)anthracene	15.76	228	4658984	35.405ug/ml	96
79)	Chrysene	15.80	228	4016071	34.919ug/ml	96
80)	Bis-(2-ethylhexyl)phthalat	15.82	149	3269160	41.911ug/ml	100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

:0003419

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\22JUN15\DEL05S40.D Vial: 4
Acq On : 06/22/2015 15:16 Operator: DJC
Sample : SSTD040DL 28467 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 22 16:30:12 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 16:33:31 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.75	149	5405315	43.772ug/ml	100
83) Benzo(b)fluoranthene	17.41	252	4263325	37.158ug/ml	93
84) Benzo(k)fluoranthene	17.46	252	4272719	38.664ug/ml	93
85) Benzo(a)pyrene	18.04	252	4228985	38.231ug/ml	92
87) Indeno(1,2,3-c,d)pyrene	20.86	276	3830246	37.148ug/ml	79
88) Dibenzo(a,h)anthracene	20.93	278	3982117	38.002ug/ml	90
89) Benzo(g,h,i)perylene	21.69	276	3777208	36.242ug/ml	87

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

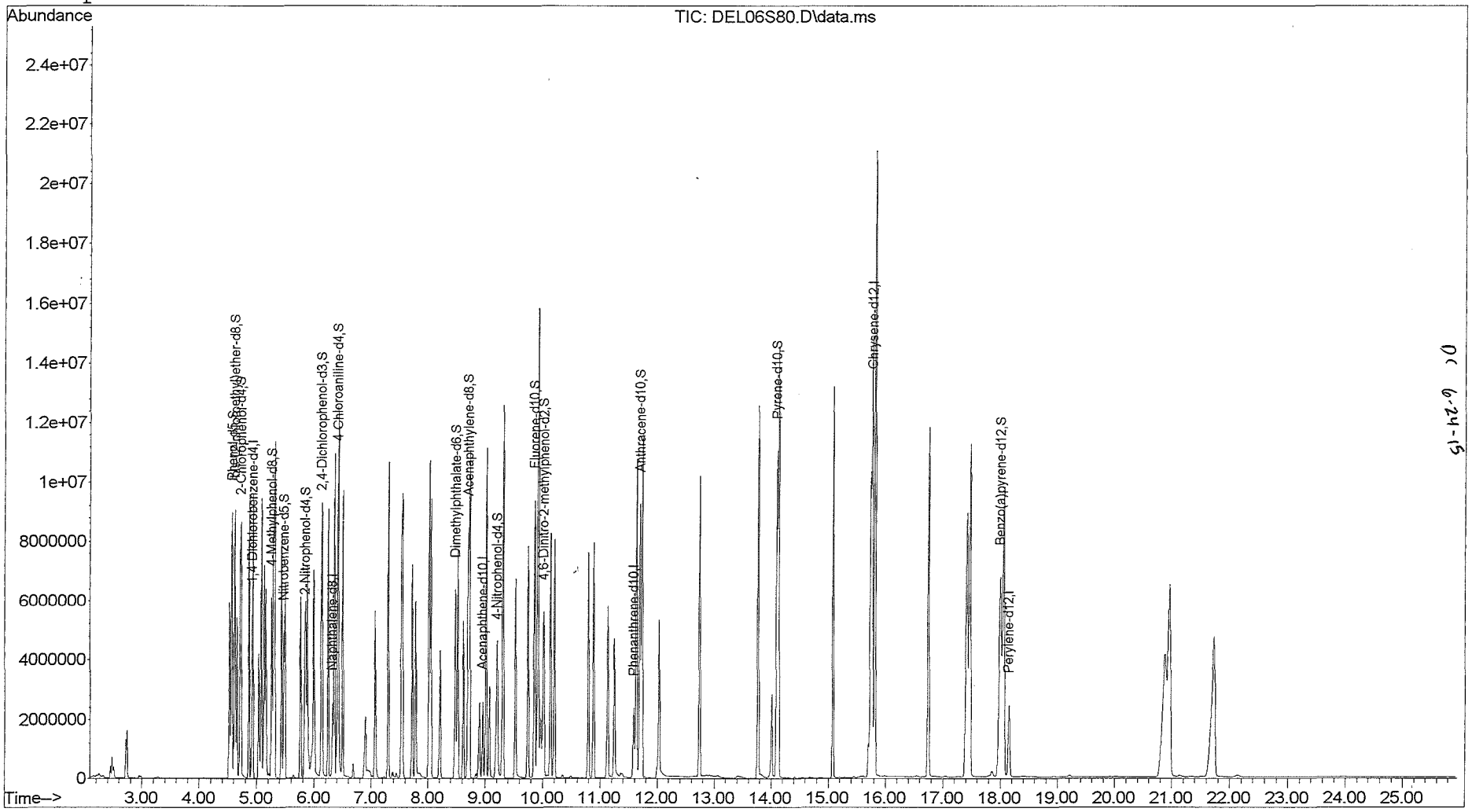
00950

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\22JUN15\DEL06S80.D Vial: 5
Acq On : 06/22/2015 15:50 Operator: DJC
Sample : SSTD080DL 28471 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 22 16:32:19 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 16:33:31 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\22JUN15\DEL06S80.D Vial: 5
Acq On : 06/22/2015 15:50 Operator: DJC
Sample : SSTD080DL 28471 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 22 16:32:19 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 16:33:31 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.92	152	412365	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1356276	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	842893	20.00 ug/ml
59) Phenanthrene-d10	11.59	188	1513146	20.00 ug/ml
73) Chrysene-d12	15.77	240	1954996	20.00 ug/ml
81) Perylene-d12	18.15	264	1808847	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.56	99	2160667	79.877ug/ml
6) bis-(2-chloroethyl)ether-d	4.61	67	1654846	82.212ug/mL
7) 2-Chlorophenol-d4	4.71	132	2041619	80.328ug/ml
13) 4-Methylphenol-d8	5.26	113	1595286	79.264ug/mL
17) Nitrobenzene-d5	5.47	128	906467	81.483ug/ml
21) 2-Nitrophenol-d4	5.83	143	1049932	83.171ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	1766280	81.018ug/mL
28) 4-Chloroaniline-d4	6.40	131	1503185	64.896ug/mL
42) Dimethylphthalate-d6	8.48	166	4338090	83.214ug/mL
45) Acenaphthylene-d8	8.70	160	5725371	83.646ug/mL
50) 4-Nitrophenol-d4	9.20	143	831348	86.467ug/mL
57) Fluorene-d10	9.86	176	3916634	85.004ug/mL
61) 4,6-Dinitro-2-methylphenol	10.01	200	865150	92.092ug/mL
69) Anthracene-d10	11.69	188	6523766	83.551ug/mL
75) Pyrene-d10	14.10	212	6490892	81.327ug/mL
86) Benzo(a)pyrene-d12	18.00	264	7061889	85.603ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.52	77	1277582	74.352ug/ml 95
4) Phenol	4.57	94	2418126	85.265ug/ml 90
5) Bis(2-chloroethyl)ether	4.65	93	1814409	84.308ug/ml 97
8) 2-Chlorophenol	4.72	128	2124629	84.889ug/ml 98
9) 2-Methylphenol	5.13	108	1733283	76.329ug/ml 99
10) 2,2'-Oxybis-(1-chloropropa	5.16	45	2879185	79.107ug/ml 100
11) Acetophenone	5.31	105	2658647	81.599ug/ml 65
12) 4-methylphenol	5.29	108	1845406	80.276ug/ml 98
14) N-Nitroso-di-n-propylamine	5.31	70	1338863	86.108ug/ml 87
15) Hexachloroethane	5.43	117	995767	82.618ug/ml 80
18) Nitrobenzene	5.49	77	2004210	83.840ug/ml 96
19) Isophorone	5.76	82	3348597	82.492ug/ml 94
20) 2-Nitrophenol	5.85	139	1141504	86.781ug/ml 98
22) 2,4-Dimethylphenol	5.87	107	1867673	86.494ug/ml 95
23) Bis(2-chloroethoxy)methane	5.99	93	2178821	87.087ug/ml 99
24) 2,4-Dichlorophenol	6.14	162	1878571	85.006ug/ml 97
26) Naphthalene	6.35	128	5745138	85.422ug/ml 99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

0952

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\22JUN15\DEL06S80.D Vial: 5
Acq On : 06/22/2015 15:50 Operator: DJC
Sample : SSTD080DL 28471 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 22 16:32:19 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 16:33:31 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
27)	4-Chloroaniline	6.42	127	2133402	78.531ug/ml		98
29)	Hexachlorobutadiene	6.50	225	1398271	84.135ug/ml		100
30)	Caprolactam	6.90	113	492116	76.005ug/ml	m	81
31)	4-Chloro-3-methylphenol	7.07	107	1588760	87.216ug/ml	QC 6/24/15	95
32)	2-Methylnaphthalene	7.30	142	3820419	84.449ug/ml		96
34)	1,2,4,5-Tetrachlorobenzene	7.55	216	2241030	83.270ug/mL		98
35)	Hexachlorocyclopentadiene	7.53	237	1657165	94.093ug/ml		98
36)	2,4,6-Trichlorophenol	7.72	196	1497343	88.608ug/ml		99
37)	2,4,5-Trichlorophenol	7.79	196	1507966	83.617ug/ml		99
38)	1,1'-Biphenyl	8.02	154	4603043	80.640ug/ml		97
39)	2-Chloronaphthalene	8.05	162	3980971	85.330ug/ml		95
40)	2-Nitroaniline	8.22	65	1082657	85.771ug/ml		98
41)	Dimethylphthalate	8.52	163	4431713	86.748ug/ml		99
43)	2,6-Dinitrotoluene	8.62	165	994810	86.218ug/ml		94
44)	Acenaphthylene	8.73	152	6539673	89.344ug/ml		97
46)	3-Nitroaniline	8.90	138	729953	65.823ug/ml		95
47)	Acenaphthene	9.02	153	4066649	88.776ug/ml		92
48)	2,4-Dinitrophenol	9.07	184	702521	100.545ug/ml		100
49)	4-Nitrophenol	9.22	109	576278	90.999ug/ml		97
51)	Dibenzofuran	9.32	168	5617535	85.048ug/ml		98
52)	2,4-Dinitrotoluene	9.30	165	1441404	89.022ug/ml		81
53)	2,3,4,6-Tetrachlorophenol	9.53	232	1382898	92.582ug/mL		92
54)	Diethylphthalate	9.75	149	4422546	86.687ug/ml		99
55)	4-Chlorophenyl-phenylether	9.92	204	2311418	79.742ug/ml		93
56)	Fluorene	9.91	166	4528186	81.916ug/ml		97
58)	4-Nitroaniline	9.97	138	766962	64.085ug/ml		85
60)	4,6-Dinitro-2-methylphenol	10.02	198	1019991	94.636ug/ml		92
62)	N-Nitrosodiphenylamine	10.14	169	3243018	86.540ug/ml		96
63)	4-Bromophenyl-phenyl ether	10.79	248	1527926	87.780ug/ml		88
64)	Hexachlorobenzene	10.89	284	1632725	86.313ug/ml		84
65)	Atrazine	11.13	200	1215684	75.098ug/ml		98
66)	Pentachlorophenol	11.25	266	1015993	100.881ug/ml		98
67)	Phenanthrene	11.63	178	6904309	86.043ug/ml		98
68)	Anthracene	11.73	178	7253121	87.151ug/ml		97
70)	Carbazole	12.03	167	4142828	60.899ug/mL		97
71)	Di-n-butylphthalate	12.74	149	7986208	86.407ug/ml		99
72)	Fluoranthene	13.77	202	8130980	85.829ug/ml		91
74)	Pyrene	14.13	202	8497775	80.178ug/ml		91
76)	Butylbenzylphthalate	15.08	149	3777431	85.965ug/ml		96
77)	3,3'-Dichlorobenzidine	15.73	252	2668392	74.626ug/ml		97
78)	Benzo(a)anthracene	15.76	228	8575266	77.276ug/ml		95
79)	Chrysene	15.81	228	6411339	66.311ug/ml		97
80)	Bis-(2-ethylhexyl)phthalat	15.82	149	4788274	69.868ug/ml		99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00053

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\22JUN15\DEL06S80.D Vial: 5
Acq On : 06/22/2015 15:50 Operator: DJC
Sample : SSTD080DL 28471 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 22 16:32:19 2015 Results File: DSOM01D6.RES

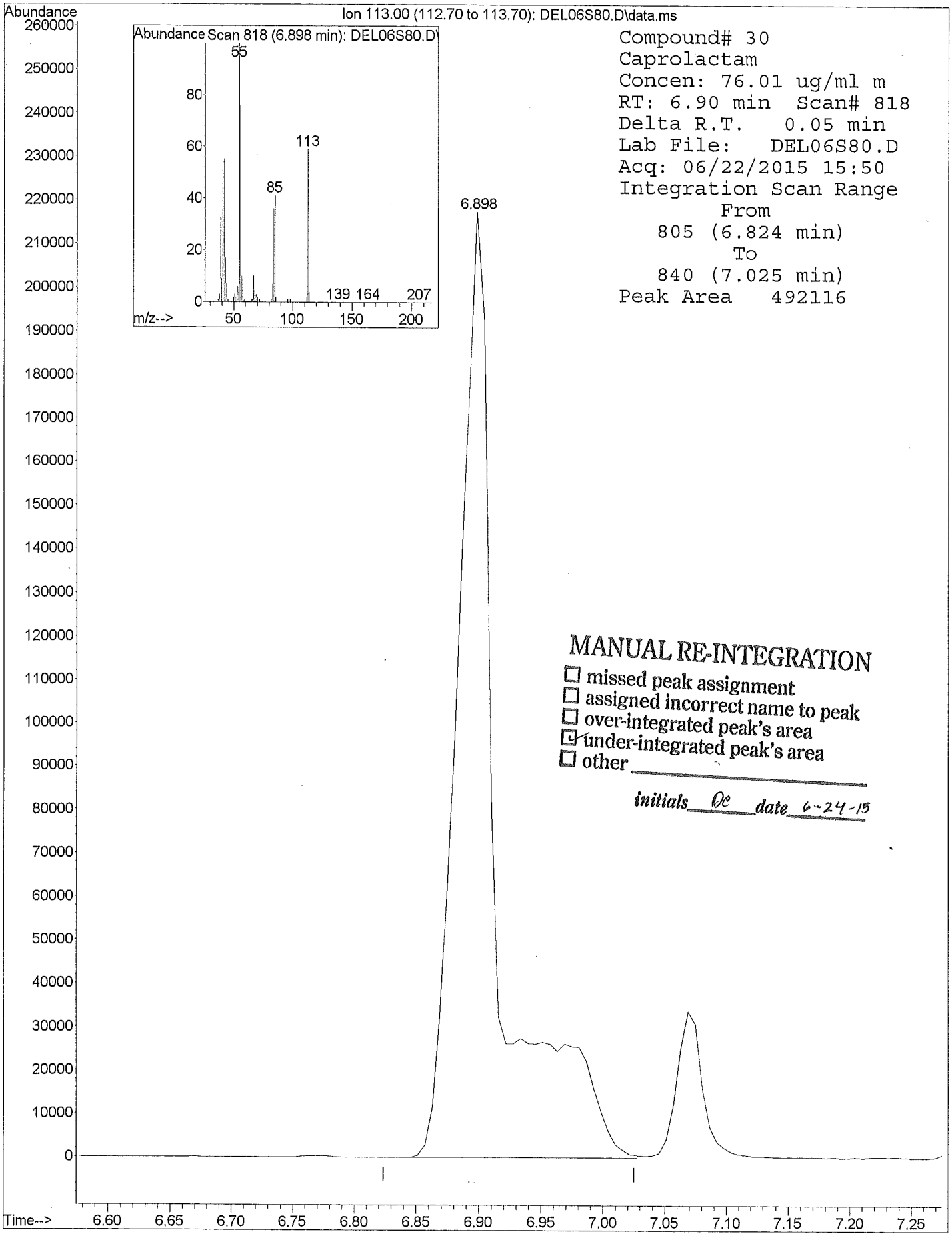
Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 22 16:33:31 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.75	149	9725092	84.973ug/ml	99
83) Benzo(b)fluoranthene	17.42	252	9481199	92.915ug/ml	92
84) Benzo(k)fluoranthene	17.47	252	8339729	84.049ug/ml	93
85) Benzo(a)pyrene	18.06	252	8861628	89.465ug/ml	92
87) Indeno(1,2,3-c,d)pyrene	20.88	276	8548381	93.226ug/ml	77
88) Dibenzo(a,h)anthracene	20.96	278	8900392	94.993ug/ml	90
89) Benzo(g,h,i)perylene	21.73	276	8371831	90.848ug/ml	86

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 00954

M A N U A L I N T E G R A T I O N FOR Caprolactam



DSOM01D6.M 5975-D DSOM01D6.M SSTD080DL 28471 . X7-19-15

6E - FORM VI SV-1
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-G Calibration Date(s): 06/20/2015 06/20/2015

Calibration Time(s): 11:10 13:22

LAB FILE ID: RRF 5.0 = GBV03S05 RRF 10 = GBV04S10

RRF 20 = GBV05S20 RRF 40 = GBV06S40 RRF 80 = GBV07S80

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
Benzaldehyde	1.141	1.182	1.210	1.275	1.108	1.183	5.4
Phenol	1.874	1.940	1.836	1.811	1.891	1.871	2.7
Bis(2-chloroethyl)ether	1.510	1.575	1.530	1.521	1.610	1.549	2.7
2-Chlorophenol	1.395	1.459	1.359	1.312	1.387	1.382	3.9
2-Methylphenol	1.330	1.367	1.238	1.171	1.262	1.274	6.1
2,2'-Oxybis(1-chloropropane)	3.758	3.884	3.674	3.774	3.918	3.802	2.6
Acetophenone	1.970	1.999	1.848	1.896	1.864	1.916	3.5
4-Methylphenol	1.412	1.484	1.372	1.316	1.411	1.399	4.4
N-Nitroso-di-n-propylamine	1.063	1.088	0.999	1.032	1.051	1.047	3.2
Hexachloroethane	0.692	0.724	0.687	0.689	0.714	0.701	2.4
Nitrobenzene	0.467	0.471	0.445	0.456	0.469	0.462	2.4
Isophorone	0.798	0.812	0.757	0.785	0.823	0.795	3.2
2-Nitrophenol	0.215	0.214	0.196	0.198	0.210	0.207	4.3
2,4-Dimethylphenol	0.402	0.406	0.379	0.375	0.399	0.392	3.6
Bis(2-chloroethoxy)methane	0.485	0.499	0.464	0.474	0.485	0.482	2.7
2,4-Dichlorophenol	0.314	0.324	0.298	0.297	0.311	0.309	3.7
Naphthalene	1.062	1.054	0.986	0.950	1.004	1.011	4.6
4-Chloroaniline	0.409	0.402	0.304	0.308	0.331	0.351	14.6
Hexachlorobutadiene	0.220	0.215	0.202	0.206	0.215	0.212	3.5
Caprolactam	0.111	0.112	0.104	0.118	0.118	0.113	5.2
4-Chloro-3-methylphenol	0.335	0.351	0.326	0.336	0.359	0.341	4.0
2-Methylnaphthalene	0.664	0.675	0.615	0.596	0.649	0.640	5.2
Hexachlorocyclopentadiene	0.379	0.409	0.415	0.418	0.438	0.412	5.2
2,4,6-Trichlorophenol	0.413	0.430	0.411	0.403	0.436	0.418	3.3
2,4,5-Trichlorophenol	0.384	0.417	0.402	0.406	0.441	0.410	5.1
1,1'-Biphenyl	1.372	1.418	1.345	1.354	1.321	1.362	2.7
2-Chloronaphthalene	1.188	1.226	1.149	1.131	1.145	1.168	3.3
2-Nitroaniline		0.496	0.460	0.445	0.511	0.478	6.4
Dimethylphthalate	1.309	1.348	1.258	1.284	1.347	1.309	3.0
2,6-Dinitrotoluene	0.294	0.305	0.288	0.293	0.306	0.297	2.6
Acenaphthylene	1.853	1.913	1.789	1.712	1.782	1.810	4.2
3-Nitroaniline		0.306	0.167	0.188	0.207	0.217	28.2
Acenaphthene	1.133	1.154	1.076	1.030	1.091	1.097	4.5
2,4-Dinitrophenol		0.178	0.188	0.204	0.229	0.200	11.2
4-Nitrophenol		0.201	0.189	0.190	0.212	0.198	5.5
Dibenzofuran	1.509	1.531	1.422	1.318	1.441	1.444	5.8

6F - FORM VI SV-2
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-G Calibration Date(s): 06/20/2015 06/20/2015

Calibration Time(s): 11:10 13:22

LAB FILE ID: RRF 5.0 = GBV03S05 RRF 10 = GBV04S10
RRF 20 = GBV05S20 RRF 40 = GBV06S40 RRF 80 = GBV07S80

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
2,4-Dinitrotoluene	0.394	0.417	0.380	0.390	0.394	0.395	3.4
Diethylphthalate	1.356	1.391	1.283	1.365	1.395	1.358	3.3
Fluorene	1.244	1.291	1.189	1.131	1.162	1.203	5.3
4-Chlorophenyl-phenylether	0.627	0.632	0.591	0.586	0.599	0.607	3.5
4-Nitroaniline		0.324	0.266	0.226	0.211	0.256	19.7
4,6-Dinitro-2-methylphenol		0.164	0.158	0.163	0.176	0.165	4.6
N-Nitrosodiphenylamine[1]	0.578	0.594	0.557	0.548	0.550	0.565	3.6
1,2,4,5-Tetrachlorobenzene	0.584	0.578	0.547	0.523	0.554	0.557	4.4
4-Bromophenyl-phenylether	0.216	0.219	0.206	0.208	0.220	0.214	3.0
Hexachlorobenzene	0.231	0.231	0.221	0.219	0.234	0.227	3.0
Atrazine	0.218	0.220	0.200	0.201	0.186	0.205	6.9
Pentachlorophenol		0.136	0.136	0.136	0.155	0.141	6.9
Phenanthrene	1.081	1.135	1.056	0.997	1.065	1.067	4.7
Anthracene	1.128	1.162	1.075	1.009	1.070	1.089	5.4
Carbazole	0.992	0.975	0.670	0.584	0.508	0.746	30.1
Di-n-butylphthalate	1.498	1.537	1.415	1.442	1.489	1.476	3.3
Fluoranthene	1.194	1.246	1.153	1.099	1.185	1.175	4.6
Pyrene	1.289	1.346	1.266	1.188	1.275	1.273	4.5
Butylbenzylphthalate	0.664	0.699	0.661	0.675	0.697	0.679	2.6
3,3'-Dichlorobenzidine	0.395	0.314	0.224	0.247	0.305	0.297	22.6
Benzo(a)anthracene	1.217	1.254	1.174	1.147	1.276	1.213	4.4
Chrysene	1.092	1.154	1.070	1.036	1.126	1.096	4.2
Bis(2-ethylhexyl)phthalate	0.991	1.037	0.973	0.967	0.978	0.989	2.9
Di-n-octylphthalate	1.947	2.073	1.940	1.961	2.017	1.988	2.8
Benzo(b)fluoranthene	1.245	1.288	1.217	1.153	1.360	1.253	6.2
Benzo(k)fluoranthene	1.174	1.228	1.170	1.133	1.210	1.183	3.2
Benzo(a)pyrene	1.190	1.208	1.140	1.119	1.237	1.179	4.1
Indeno(1,2,3-cd)pyrene	0.990	1.044	1.015	1.010	1.152	1.042	6.2
Dibenzo(a,h)anthracene	1.017	1.054	1.007	1.001	1.137	1.043	5.4
Benzo(g,h,i)perylene	1.005	1.047	0.981	0.987	1.110	1.026	5.2
2,3,4,6-Tetrachlorophenol	0.317	0.344	0.323	0.325	0.353	0.332	4.5

[1] Cannot be separated from Diphenylamine

6G - FORM VI SV-3
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-G Calibration Date(s): 06/20/2015 06/20/2015

Calibration Time(s): 11:10 13:22

LAB FILE ID: RRF 5.0 = GBV03S05 RRF 10 = GBV04S10

RRF 20 = GBV05S20 RRF 40 = GBV06S40 RRF 80 = GBV07S80

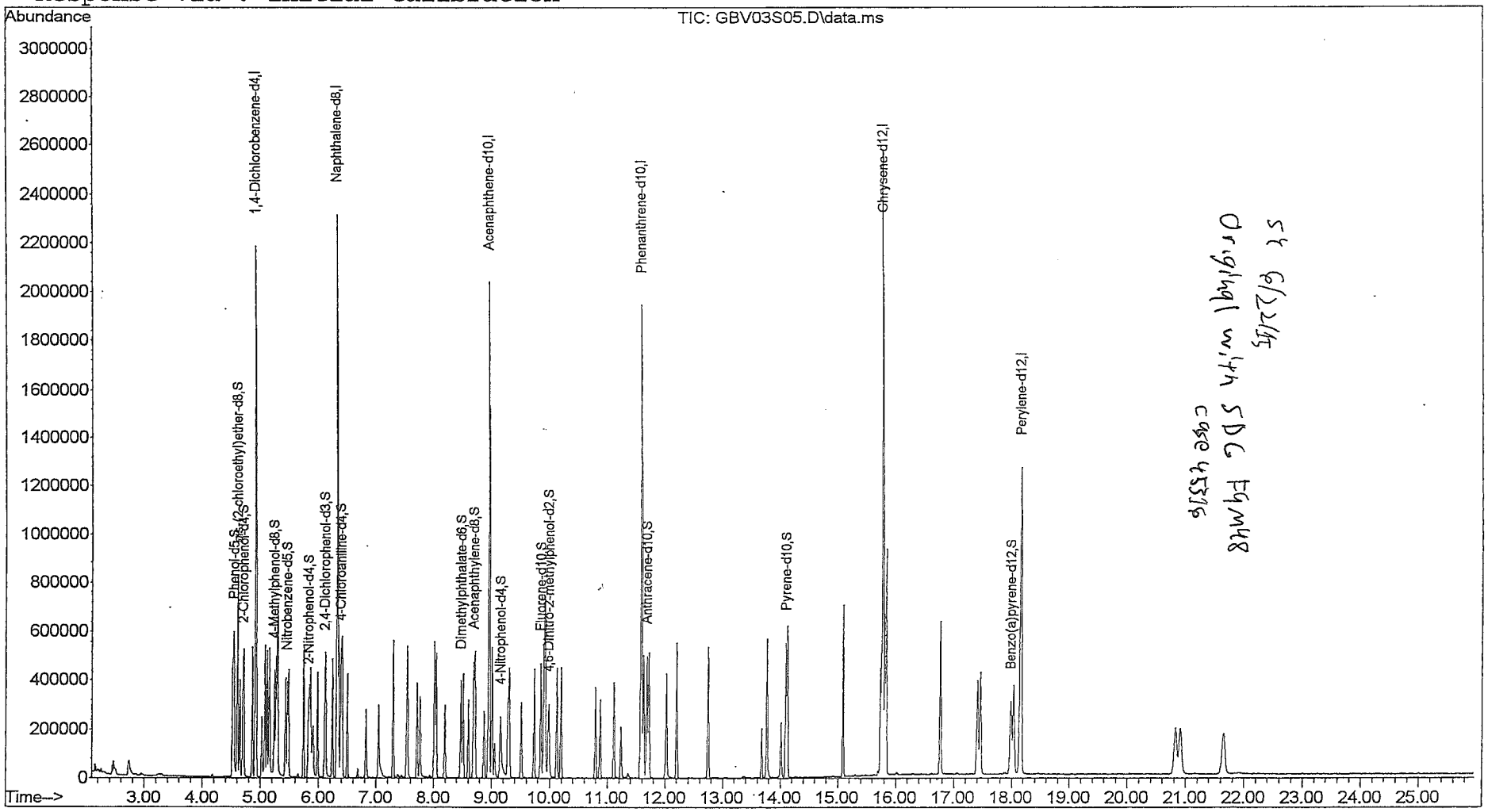
COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
Phenol-d5	1.721	1.835	1.696	1.662	1.788	1.740	4.0
Bis(2-chloroethyl)ether-d8	1.369	1.397	1.304	1.283	1.429	1.356	4.6
2-Chlorophenol-d4	1.476	1.504	1.453	1.405	1.511	1.470	2.9
4-Methylphenol-d8	1.140	1.189	1.114	1.131	1.247	1.164	4.6
Nitrobenzene-d5	0.180	0.181	0.170	0.166	0.182	0.176	4.2
2-Nitrophenol-d4	0.193	0.191	0.177	0.175	0.193	0.186	4.7
2,4-Dichlorophenol-d3	0.288	0.302	0.281	0.275	0.300	0.289	4.1
4-Chloroaniline-d4	0.395	0.380	0.260	0.272	0.273	0.316	20.8
Dimethylphthalate-d6	1.271	1.291	1.201	1.197	1.310	1.254	4.2
Acenaphthylene-d8	1.732	1.771	1.659	1.606	1.754	1.704	4.1
4-Nitrophenol-d4		0.255	0.246	0.248	0.274	0.256	5.0
Fluorene-d10	1.067	1.123	1.041	1.016	1.109	1.071	4.2
4,6-Dinitro-2-methylphenol-d2		0.138	0.137	0.137	0.156	0.142	6.7
Anthracene-d10	1.083	1.103	1.042	0.993	1.083	1.061	4.1
Pyrene-d10	0.978	1.044	0.984	0.942	1.043	0.998	4.5
Benzo(a)pyrene-d12	0.944	0.976	0.925	0.914	1.032	0.958	5.0

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV03S05.D Vial: 3
Acq On : 06/20/2015 11:10 Operator: DJC
Sample : SSTD005GV 28435 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 20 11:37:32 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV03S05.D Vial: 3
Acq On : 06/20/2015 11:10 Operator: DJC
Sample : SSTD005GV 28435 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 11:37:32 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.91	152	315826	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1163105	20.00 ug/ml
33) Acenaphthene-d10	8.95	164	657684	20.00 ug/ml
59) Phenanthrene-d10	11.58	188	1073434	20.00 ug/ml
73) Chrysene-d12	15.77	240	1066701	20.00 ug/ml
81) Perylene-d12	18.15	264	931868	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.53	99	135921	4.877ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	108102	5.056ug/mL
7) 2-Chlorophenol-d4	4.70	132	116501	4.986ug/ml
13) 4-Methylphenol-d8	5.23	113	90005	4.828ug/mL
17) Nitrobenzene-d5	5.46	128	52344	5.131ug/ml
21) 2-Nitrophenol-d4	5.82	143	56002	5.139ug/mL
25) 2,4-Dichlorophenol-d3	6.10	165	83613	4.954ug/mL
28) 4-Chloroaniline-d4	6.38	131	114748	6.275ug/mL
42) Dimethylphthalate-d6	8.47	166	209050	5.038ug/mL
45) Acenaphthylene-d8	8.69	160	284727	5.025ug/mL
50) 4-Nitrophenol-d4	9.15	143	40207	4.767ug/mL
57) Fluorene-d10	9.85	176	175421	4.918ug/mL
61) 4,6-Dinitro-2-methylphenol	9.97	200	31804	4.370ug/mL
69) Anthracene-d10	11.68	188	290577	5.134ug/mL
75) Pyrene-d10	14.09	212	260823	4.916ug/mL
86) Benzo(a)pyrene-d12	17.98	264	219897	4.952ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.52	77	90119	4.767ug/ml 86
4) Phenol	4.55	94	147942	4.943ug/ml 80
5) Bis(2-chloroethyl)ether	4.65	93	119187	4.742ug/ml 89
8) 2-Chlorophenol	4.71	128	110117	4.948ug/ml 82
9) 2-Methylphenol	5.11	108	105011	5.031ug/ml 97
10) 2,2'-Oxybis-(1-chloropropa	5.15	45	296716	4.961ug/ml 100
11) Acetophenone	5.29	105	155576	5.052ug/ml 81
12) 4-methylphenol	5.26	108	111485	4.947ug/ml 95
14) N-Nitroso-di-n-propylamine	5.28	70	83966	4.989ug/ml 75
15) Hexachloroethane	5.43	117	54616	4.904ug/ml 99
18) Nitrobenzene	5.48	77	135817	5.123ug/ml 86
19) Isophorone	5.74	82	232054	5.013ug/ml 90
20) 2-Nitrophenol	5.84	139	62443	5.132ug/ml 70
22) 2,4-Dimethylphenol	5.86	107	116885	5.123ug/ml 81
23) Bis(2-chloroethoxy)methane	5.98	93	141081	5.050ug/ml 98
24) 2,4-Dichlorophenol	6.12	162	91283	4.955ug/ml 96
26) Naphthalene	6.35	128	308828	5.150ug/ml 98

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV03S05.D Vial: 3
Acq On : 06/20/2015 11:10 Operator: DJC
Sample : SSTD005GV 28435 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 11:37:32 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27) 4-Chloroaniline	6.39	127	119016	5.910ug/ml	91
29) Hexachlorobutadiene	6.50	225	64011	5.201ug/ml	96
30) Caprolactam	6.82	113	32224	4.912ug/ml	41
31) 4-Chloro-3-methylphenol	7.05	107	97306	4.912ug/ml	91
32) 2-Methylnaphthalene	7.30	142	193185	5.120ug/ml	99
34) 1,2,4,5-Tetrachlorobenzene	7.55	216	95993	5.202ug/mL	98
35) Hexachlorocyclopentadiene	7.53	237	62281	4.576ug/ml	98
36) 2,4,6-Trichlorophenol	7.71	196	67911	4.925ug/ml	98
37) 2,4,5-Trichlorophenol	7.76	196	63096	4.702ug/ml	99
38) 1,1'-Biphenyl	8.01	154	225647	4.989ug/ml	96
39) 2-Chloronaphthalene	8.04	162	195325	5.062ug/ml	96
40) 2-Nitroaniline	8.19	65	74798	4.857ug/ml	78
41) Dimethylphthalate	8.51	163	215178	4.940ug/ml	99
43) 2,6-Dinitrotoluene	8.60	165	48328	4.814ug/ml	93
44) Acenaphthylene	8.72	152	304609	4.970ug/ml	99
46) 3-Nitroaniline	8.87	138	52358	6.797ug/ml	83
47) Acenaphthene	9.01	153	186315	5.069ug/ml	94
48) 2,4-Dinitrophenol	9.06	184	25130	4.006ug/ml	100
49) 4-Nitrophenol	9.16	109	31266	4.765ug/ml	79
51) Dibenzofuran	9.30	168	248169	5.043ug/ml	99
52) 2,4-Dinitrotoluene	9.28	165	64728	4.831ug/ml	43
53) 2,3,4,6-Tetrachlorophenol	9.51	232	52143	4.702ug/mL	97
54) Diethylphthalate	9.73	149	222962	4.984ug/ml	96
55) 4-Chlorophenyl-phenylether	9.92	204	103012	5.123ug/ml	98
56) Fluorene	9.90	166	204503	4.974ug/ml	98
58) 4-Nitroaniline	9.92	138	53909	5.431ug/ml	87
60) 4,6-Dinitro-2-methylphenol	9.99	198	38340	4.397ug/ml	88
62) N-Nitrosodiphenylamine	10.12	169	155198	5.126ug/ml	94
63) 4-Bromophenyl-phenyl ether	10.79	248	57933	5.222ug/ml	96
64) Hexachlorobenzene	10.87	284	62082	5.221ug/ml	88
65) Atrazine	11.11	200	58567	5.147ug/ml	95
66) Pentachlorophenol	11.23	266	32084	4.444ug/ml	95
67) Phenanthrene	11.62	178	290148	4.944ug/ml	99
68) Anthracene	11.72	178	302592	5.005ug/ml	99
70) Carbazole	12.02	167	266112	5.931ug/mL	98
71) Di-n-butylphthalate	12.75	149	402054	5.004ug/ml	99
72) Fluoranthene	13.77	202	320358	5.014ug/ml	98
74) Pyrene	14.12	202	343819	4.983ug/ml	98
76) Butylbenzylphthalate	15.09	149	177132	4.853ug/ml	92
77) 3,3'-Dichlorobenzidine	15.73	252	105467	6.849ug/ml	98
78) Benzo(a)anthracene	15.76	228	324540	5.074ug/ml	99
79) Chrysene	15.80	228	291253	4.917ug/ml	98
80) Bis-(2-ethylhexyl)phthalat	15.83	149	264149	4.975ug/ml	97

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV03S05.D Vial: 3
Acq On : 06/20/2015 11:10 Operator: DJC
Sample : SSTD005GV 28435 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 11:37:32 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.77	149	453597	4.837ug/ml	97
83) Benzo(b)fluoranthene	17.41	252	290099	5.072ug/ml	96
84) Benzo(k)fluoranthene	17.46	252	273588	4.782ug/ml	96
85) Benzo(a)pyrene	18.03	252	277277	4.991ug/ml	96
87) Indeno(1,2,3-c,d)pyrene	20.83	276	230698	4.833ug/ml	94
88) Dibenzo(a,h)anthracene	20.91	278	236955	4.906ug/ml	97
89) Benzo(g,h,i)perylene	21.65	276	234244	4.872ug/ml	95

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

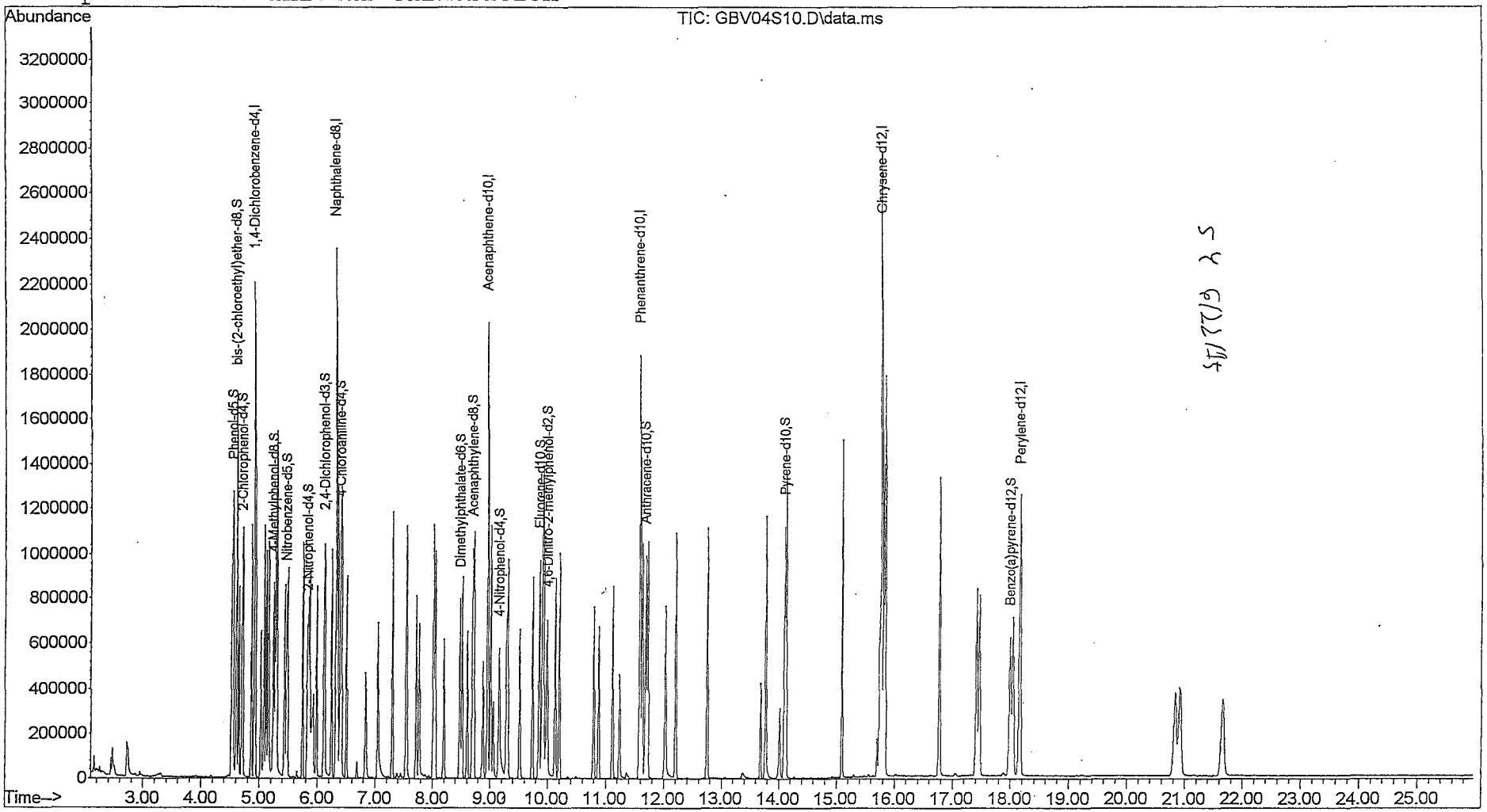
000662

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV04S10.D Vial: 2
Acq On : 06/20/2015 11:43 Operator: DJC
Sample : SSTD010GV 28435 (2) Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 20 13:34:47 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV04S10.D Vial: 2
Acq On : 06/20/2015 11:43 Operator: DJC
Sample : SSTD010GV 28435 (2) Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:34:47 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.91	152	318533	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1191498	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	663751	20.00 ug/ml
59) Phenanthrene-d10	11.58	188	1075639	20.00 ug/ml
73) Chrysene-d12	15.77	240	1041150	20.00 ug/ml
81) Perylene-d12	18.16	264	908046	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.53	99	292259	10.483ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	222448	10.277ug/mL
7) 2-Chlorophenol-d4	4.70	132	239471	10.172ug/ml
13) 4-Methylphenol-d8	5.23	113	189387	10.190ug/mL
17) Nitrobenzene-d5	5.46	128	107581	10.205ug/ml
21) 2-Nitrophenol-d4	5.82	143	113837	10.103ug/mL
25) 2,4-Dichlorophenol-d3	6.11	165	180091	10.448ug/mL
28) 4-Chloroaniline-d4	6.39	131	226156	11.127ug/mL
42) Dimethylphthalate-d6	8.47	166	428438	10.205ug/mL
45) Acenaphthylene-d8	8.69	160	587588	10.258ug/mL
50) 4-Nitrophenol-d4	9.15	143	84548	9.932ug/mL
57) Fluorene-d10	9.85	176	372564	10.406ug/mL
61) 4,6-Dinitro-2-methylphenol	9.98	200	74001	10.147ug/mL
69) Anthracene-d10	11.68	188	593036	10.365ug/mL
75) Pyrene-d10	14.09	212	543513	10.555ug/mL
86) Benzo(a)pyrene-d12	17.99	264	443135	10.274ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.52	77	188233	10.028ug/ml 87
4) Phenol	4.55	94	308962	10.275ug/ml 81
5) Bis(2-chloroethyl)ether	4.65	93	250903	10.070ug/ml 88
8) 2-Chlorophenol	4.71	128	232331	10.387ug/ml 83
9) 2-Methylphenol	5.11	108	217746	10.322ug/ml 98
10) 2,2'-Oxybis-(1-chloropropa	5.15	45	618550	10.281ug/ml 100
11) Acetophenone	5.30	105	318431	10.217ug/ml 78
12) 4-methylphenol	5.26	108	236285	10.433ug/ml 99
14) N-Nitroso-di-n-propylamine	5.29	70	173250	10.214ug/ml 75
15) Hexachloroethane	5.43	117	115311	10.333ug/ml 100
18) Nitrobenzene	5.48	77	280809	10.256ug/ml 87
19) Isophorone	5.74	82	483893	10.195ug/ml 90
20) 2-Nitrophenol	5.84	139	127383	10.131ug/ml 60
22) 2,4-Dimethylphenol	5.86	107	242052	10.271ug/ml 83
23) Bis(2-chloroethoxy)methane	5.98	93	297389	10.357ug/ml 97
24) 2,4-Dichlorophenol	6.12	162	193219	10.269ug/ml 97
26) Naphthalene	6.35	128	627662	10.116ug/ml 99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV04S10.D Vial: 2
Acq On : 06/20/2015 11:43 Operator: DJC
Sample : SSTD010GV 28435 (2) Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:34:47 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.40	127	239508	10.946ug/ml	89
29)	Hexachlorobutadiene	6.50	225	128121	10.028ug/ml	98
30)	Caprolactam	6.83	113	66807	9.999ug/ml	37
31)	4-Chloro-3-methylphenol	7.05	107	209212	10.371ug/ml	92
32)	2-Methylnaphthalene	7.30	142	402218	10.323ug/ml	98
34)	1,2,4,5-Tetrachlorobenzene	7.55	216	191894	10.167ug/mL	97
35)	Hexachlorocyclopentadiene	7.53	237	135610	10.160ug/ml	99
36)	2,4,6-Trichlorophenol	7.72	196	142595	10.297ug/ml	99
37)	2,4,5-Trichlorophenol	7.77	196	138410	10.428ug/ml	98
38)	1,1'-Biphenyl	8.01	154	470713	10.320ug/ml	98
39)	2-Chloronaphthalene	8.05	162	406989	10.408ug/ml	96
40)	2-Nitroaniline	8.19	65	164640	10.594ug/ml	75
41)	Dimethylphthalate	8.51	163	447385	10.218ug/ml	99
43)	2,6-Dinitrotoluene	8.60	165	101204	10.114ug/ml	91
44)	Acenaphthylene	8.72	152	635006	10.287ug/ml	99
46)	3-Nitroaniline	8.87	138	101441	13.048ug/ml	87
47)	Acenaphthene	9.01	153	383058	10.280ug/ml	95
48)	2,4-Dinitrophenol	9.06	184	58992	9.318ug/ml	100
49)	4-Nitrophenol	9.16	109	66735	10.077ug/ml	78
51)	Dibenzofuran	9.30	168	507943	10.198ug/ml	98
52)	2,4-Dinitrotoluene	9.28	165	138252	10.341ug/ml	49
53)	2,3,4,6-Tetrachlorophenol	9.52	232	114007	10.393ug/mL	99
54)	Diethylphthalate	9.73	149	461580	10.235ug/ml	97
55)	4-Chlorophenyl-phenylether	9.92	204	209767	10.252ug/ml	99
56)	Fluorene	9.90	166	428352	10.341ug/ml	98
58)	4-Nitroaniline	9.93	138	107427	10.724ug/ml	78
60)	4,6-Dinitro-2-methylphenol	9.99	198	88036	10.076ug/ml	92
62)	N-Nitrosodiphenylamine	10.12	169	319596	10.447ug/ml	95
63)	4-Bromophenyl-phenyl ether	10.79	248	117649	10.429ug/ml	99
64)	Hexachlorobenzene	10.87	284	124327	10.282ug/ml	91
65)	Atrazine	11.12	200	118399	10.284ug/ml	98
66)	Pentachlorophenol	11.23	266	73387	10.145ug/ml	98
67)	Phenanthrene	11.63	178	610508	10.421ug/ml	99
68)	Anthracene	11.72	178	624774	10.309ug/ml	99
70)	Carbazole	12.02	167	524378	10.981ug/mL	99
71)	Di-n-butylphthalate	12.75	149	826688	10.265ug/ml	100
72)	Fluoranthene	13.77	202	669933	10.454ug/ml	97
74)	Pyrene	14.12	202	700932	10.420ug/ml	98
76)	Butylbenzylphthalate	15.09	149	363932	10.317ug/ml	91
77)	3,3'-Dichlorobenzidine	15.74	252	163280	9.672ug/ml	97
78)	Benzo(a)anthracene	15.76	228	652713	10.405ug/ml	99
79)	Chrysene	15.81	228	600784	10.449ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.83	149	539931	10.436ug/ml	98

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV04S10.D Vial: 2
Acq On : 06/20/2015 11:43 Operator: DJC
Sample : SSTD010GV 28435 (2) Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:34:47 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.77	149	941255	10.414ug/ml	97
83) Benzo(b)fluoranthene	17.41	252	584927	10.445ug/ml	97
84) Benzo(k)fluoranthene	17.46	252	557722	10.151ug/ml	96
85) Benzo(a)pyrene	18.03	252	548322	10.134ug/ml	97
87) Indeno(1,2,3-c,d)pyrene	20.83	276	473777	10.301ug/ml	92
88) Dibenzo(a,h)anthracene	20.92	278	478543	10.231ug/ml	97
89) Benzo(g,h,i)perylene	21.66	276	475293	10.232ug/ml	95

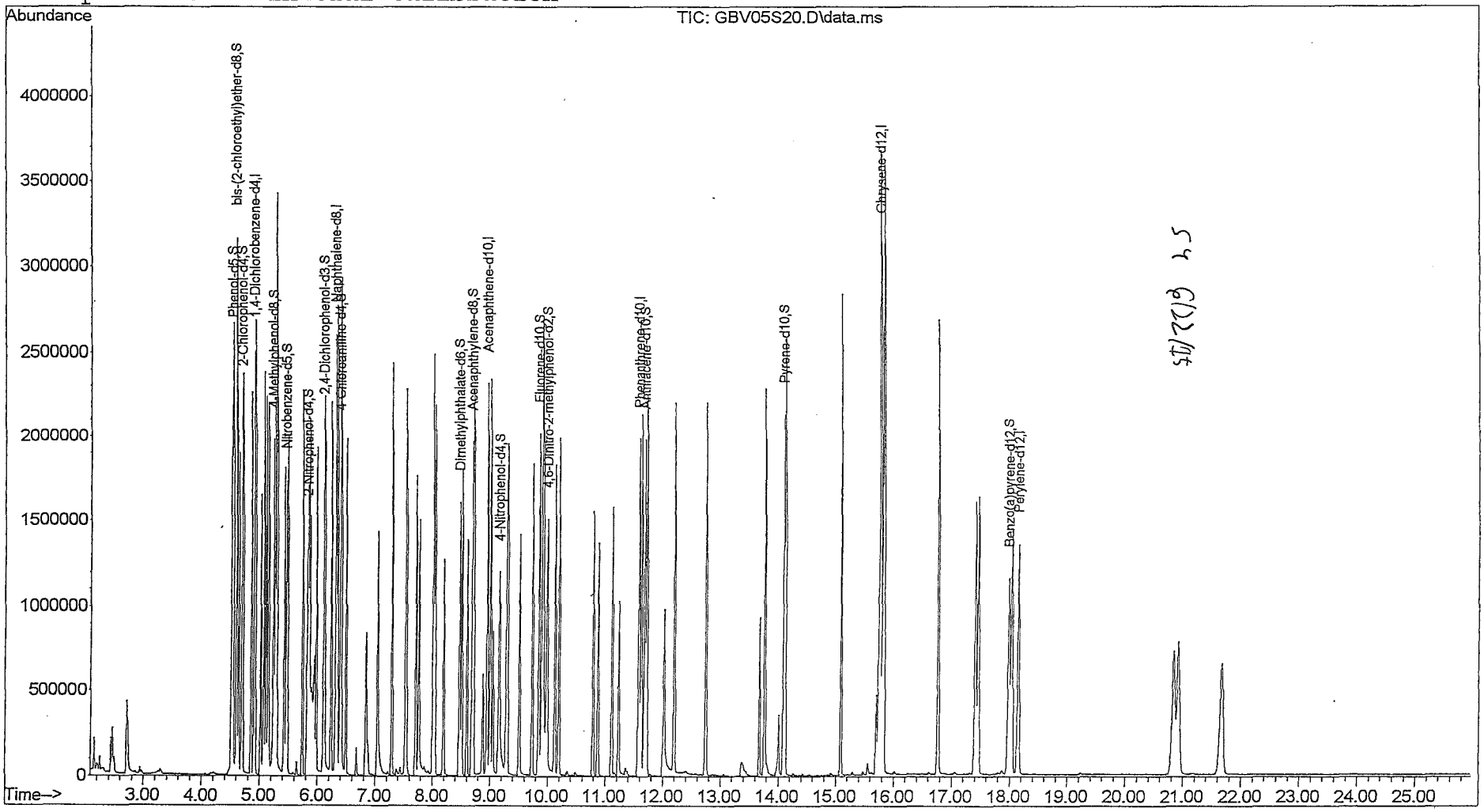
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV05S20.D Vial: 1
Acq On : 06/20/2015 12:16 Operator: DJC
Sample : SSTD020GV 28435 DFTPPGV Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 20 13:39:18 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV05S20.D Vial: 1
Acq On : 06/20/2015 12:16 Operator: DJC
Sample : SSTD020GV 28435 DFTPPGV Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:39:18 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.91	152	362165	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1346042	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	732429	20.00 ug/ml
59) Phenanthrene-d10	11.59	188	1168838	20.00 ug/ml
73) Chrysene-d12	15.78	240	1108274	20.00 ug/ml
81) Perylene-d12	18.16	264	964923	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.53	99	614121	19.393ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	472137	19.309ug/mL
7) 2-Chlorophenol-d4	4.70	132	526220	19.841ug/ml
13) 4-Methylphenol-d8	5.24	113	403377	19.286ug/mL
17) Nitrobenzene-d5	5.46	128	229096	19.237ug/ml
21) 2-Nitrophenol-d4	5.83	143	237986	18.836ug/mL
25) 2,4-Dichlorophenol-d3	6.11	165	378394	19.329ug/mL
28) 4-Chloroaniline-d4	6.39	131	349406	15.278ug/mL
42) Dimethylphthalate-d6	8.47	166	879657	19.107ug/mL
45) Acenaphthylene-d8	8.69	160	1215219	19.202ug/mL
50) 4-Nitrophenol-d4	9.16	143	180114	19.659ug/mL
57) Fluorene-d10	9.85	176	762339	19.349ug/mL
61) 4,6-Dinitro-2-methylphenol	9.99	200	160430	20.089ug/mL
69) Anthracene-d10	11.69	188	1217962	19.517ug/mL
75) Pyrene-d10	14.09	212	1090069	19.744ug/mL
86) Benzo(a)pyrene-d12	17.99	264	892866	19.566ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.52	77	438276	20.631ug/ml 84
4) Phenol	4.55	94	665060	19.550ug/ml 84
5) Bis(2-chloroethyl)ether	4.65	93	554170	19.779ug/ml 90
8) 2-Chlorophenol	4.72	128	492261	19.421ug/ml 82
9) 2-Methylphenol	5.12	108	448243	18.790ug/ml 99
10) 2,2'-Oxybis-(1-chloropropa	5.15	45	1330606	19.536ug/ml 100
11) Acetophenone	5.30	105	669143	19.021ug/ml 80
12) 4-methylphenol	5.27	108	496885	19.376ug/ml 100
14) N-Nitroso-di-n-propylamine	5.29	70	361819	18.874ug/ml 74
15) Hexachloroethane	5.43	117	248815	19.643ug/ml 99
18) Nitrobenzene	5.49	77	599146	19.346ug/ml 86
19) Isophorone	5.75	82	1019288	19.163ug/ml 90
20) 2-Nitrophenol	5.85	139	264103	18.736ug/ml 62
22) 2,4-Dimethylphenol	5.86	107	509828	19.157ug/ml 82
23) Bis(2-chloroethoxy)methane	5.99	93	624979	19.260ug/ml 97
24) 2,4-Dichlorophenol	6.13	162	400527	18.925ug/ml 97
26) Naphthalene	6.35	128	1327473	19.043ug/ml 100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV05S20.D Vial: 1
Acq On : 06/20/2015 12:16 Operator: DJC
Sample : SSTD020GV 28435 DFTPPGV Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:39:18 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.40	127	409220	16.586ug/ml	89
29)	Hexachlorobutadiene	6.50	225	271322	18.802ug/ml	99
30)	Caprolactam	6.85	113	140186	18.780ug/ml	39
31)	4-Chloro-3-methylphenol	7.05	107	438279	19.188ug/ml	90
32)	2-Methylnaphthalene	7.30	142	827753	18.766ug/ml	97
34)	1,2,4,5-Tetrachlorobenzene	7.55	216	400331	19.240ug/mL	98
35)	Hexachlorocyclopentadiene	7.53	237	303920	20.748ug/ml	99
36)	2,4,6-Trichlorophenol	7.72	196	300906	19.577ug/ml	99
37)	2,4,5-Trichlorophenol	7.77	196	294314	20.195ug/ml	99
38)	1,1'-Biphenyl	8.02	154	985351	19.602ug/ml	96
39)	2-Chloronaphthalene	8.05	162	841300	19.369ug/ml	96
40)	2-Nitroaniline	8.20	65	337016	19.448ug/ml	76
41)	Dimethylphthalate	8.52	163	921683	19.200ug/ml	99
43)	2,6-Dinitrotoluene	8.61	165	211268	19.364ug/ml	90
44)	Acenaphthylene	8.72	152	1310080	19.324ug/ml	99
46)	3-Nitroaniline	8.88	138	122455	14.842ug/ml	82
47)	Acenaphthene	9.01	153	788072	19.182ug/ml	94
48)	2,4-Dinitrophenol	9.06	184	137969	20.461ug/ml	100
49)	4-Nitrophenol	9.17	109	138666	19.306ug/ml	80
51)	Dibenzofuran	9.31	168	1041601	19.100ug/ml	97
52)	2,4-Dinitrotoluene	9.29	165	278006	18.937ug/ml	43
53)	2,3,4,6-Tetrachlorophenol	9.52	232	236802	19.690ug/mL	98
54)	Diethylphthalate	9.74	149	939877	19.003ug/ml	97
55)	4-Chlorophenyl-phenylether	9.92	204	432806	19.226ug/ml	98
56)	Fluorene	9.90	166	870676	19.135ug/ml	99
58)	4-Nitroaniline	9.94	138	194899	18.146ug/ml	73
60)	4,6-Dinitro-2-methylphenol	10.00	198	184750	19.479ug/ml	89
62)	N-Nitrosodiphenylamine	10.13	169	651086	19.509ug/ml	94
63)	4-Bromophenyl-phenyl ether	10.79	248	240799	19.419ug/ml	99
64)	Hexachlorobenzene	10.88	284	258039	19.631ug/ml	90
65)	Atrazine	11.12	200	233733	18.768ug/ml	98
66)	Pentachlorophenol	11.24	266	158569	20.001ug/ml	99
67)	Phenanthrene	11.63	178	1233823	19.348ug/ml	100
68)	Anthracene	11.72	178	1256376	19.121ug/ml	99
70)	Carbazole	12.03	167	782799	15.223ug/mL	97
71)	Di-n-butylphthalate	12.75	149	1653429	18.950ug/ml	100
72)	Fluoranthene	13.77	202	1348111	19.310ug/ml	98
74)	Pyrene	14.13	202	1403033	19.608ug/ml	98
76)	Butylbenzylphthalate	15.09	149	732411	19.543ug/ml	91
77)	3,3'-Dichlorobenzidine	15.74	252	248083	14.613ug/ml	99
78)	Benzo(a)anthracene	15.76	228	1300807	19.484ug/ml	99
79)	Chrysene	15.81	228	1186136	19.395ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.83	149	1078068	19.567ug/ml	96

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 02969

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV05S20.D Vial: 1
Acq On : 06/20/2015 12:16 Operator: DJC
Sample : SSTD020GV 28435 DFTPPGV Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:39:18 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82)	Di-n-octylphthalate	16.77	149	1871684	19.466ug/ml	97
83)	Benzo(b)fluoranthene	17.42	252	1174571	19.625ug/ml	96
84)	Benzo(k)fluoranthene	17.46	252	1129002	19.557ug/ml	97
85)	Benzo(a)pyrene	18.04	252	1100231	19.272ug/ml	96
87)	Indeno(1,2,3-c,d)pyrene	20.84	276	979203	20.077ug/ml	91
88)	Dibenzo(a,h)anthracene	20.93	278	971499	19.666ug/ml	96
89)	Benzo(g,h,i)perylene	21.68	276	947001	19.285ug/ml	96

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

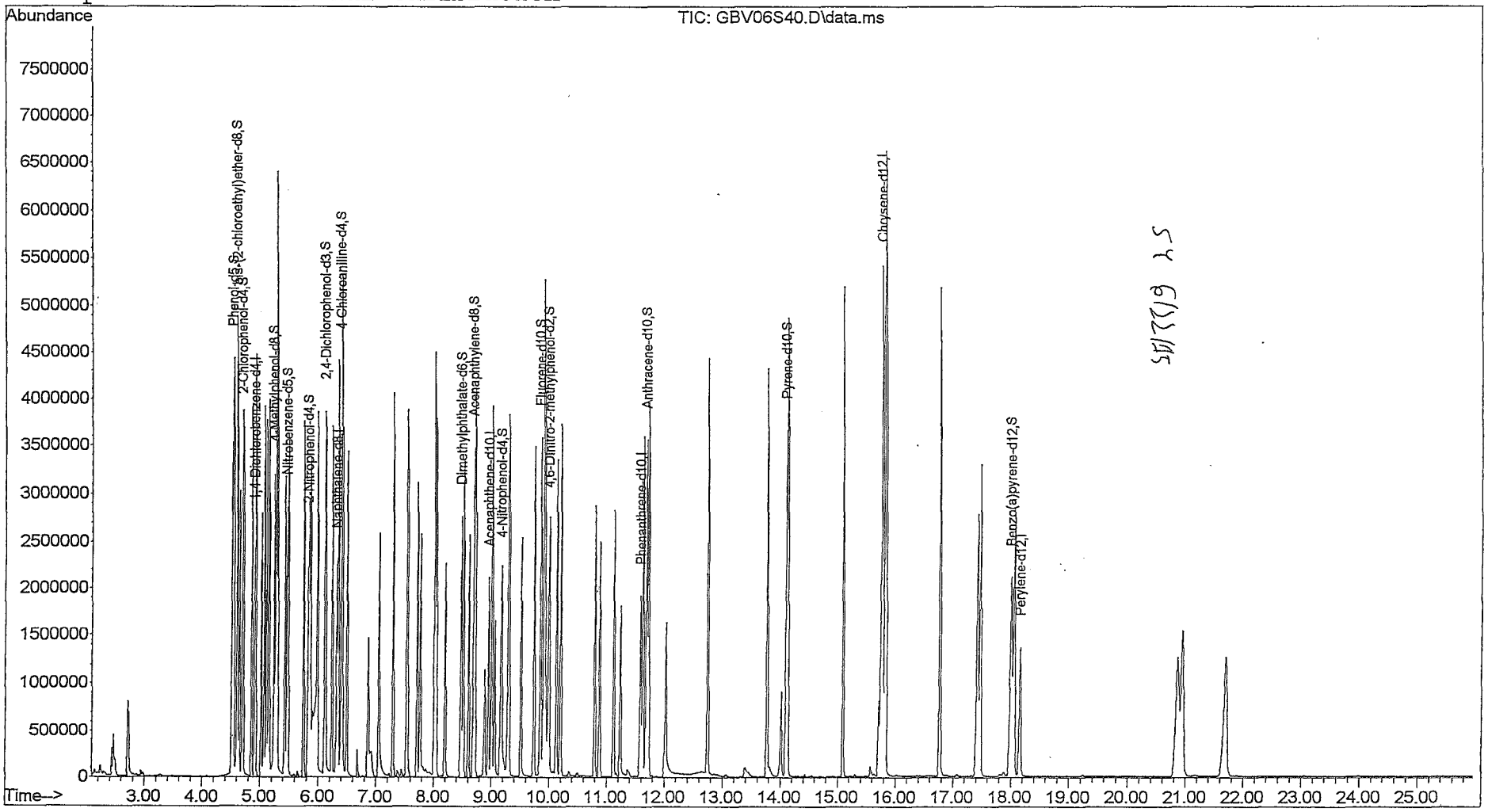
60978

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV06S40.D Vial: 4
Acq On : 06/20/2015 12:49 Operator: DJC
Sample : SSTD040GV 28436 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 20 13:43:01 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration



SV 6/22/15

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV06S40.D Vial: 4
Acq On : 06/20/2015 12:49 Operator: DJC
Sample : SSTD040GV 28436 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:43:01 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.91	152	317040	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1190017	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	678332	20.00 ug/ml
59) Phenanthrene-d10	11.59	188	1128340	20.00 ug/ml
73) Chrysene-d12	15.78	240	1086729	20.00 ug/ml
81) Perylene-d12	18.16	264	965896	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.54	99	1053993	37.978ug/ml
6) bis-(2-chloroethyl)ether-d	4.61	67	813522	37.833ug/mL
7) 2-Chlorophenol-d4	4.70	132	890751	38.035ug/ml
13) 4-Methylphenol-d8	5.25	113	717254	39.427ug/mL
17) Nitrobenzene-d5	5.47	128	394182	37.443ug/ml
21) 2-Nitrophenol-d4	5.83	143	417440	37.552ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	654443	37.885ug/mL
28) 4-Chloroaniline-d4	6.40	131	646635	31.536ug/mL
42) Dimethylphthalate-d6	8.48	166	1623618	38.160ug/mL
45) Acenaphthylene-d8	8.70	160	2178895	37.341ug/mL
50) 4-Nitrophenol-d4	9.17	143	337084	39.701ug/mL
57) Fluorene-d10	9.86	176	1378462	37.745ug/mL
61) 4,6-Dinitro-2-methylphenol	9.99	200	308621	39.806ug/mL
69) Anthracene-d10	11.69	188	2240412	36.913ug/mL
75) Pyrene-d10	14.10	212	2046995	37.601ug/mL
86) Benzo(a)pyrene-d12	18.00	264	1765776	38.551ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.52	77	808664	43.312ug/ml 84
4) Phenol	4.55	94	1148617	38.474ug/ml 84
5) Bis(2-chloroethyl)ether	4.65	93	964657	39.558ug/ml 86
8) 2-Chlorophenol	4.72	128	831786	37.368ug/ml 82
9) 2-Methylphenol	5.12	108	742723	35.722ug/ml 97
10) 2,2'-Oxybis-(1-chloropropa	5.16	45	2392860	40.019ug/ml 100
11) Acetophenone	5.30	105	1202468	39.119ug/ml 77
12) 4-methylphenol	5.27	108	834459	37.005ug/ml 98
14) N-Nitroso-di-n-propylamine	5.30	70	654182	39.299ug/ml 74
15) Hexachloroethane	5.43	117	437033	39.333ug/ml 100
18) Nitrobenzene	5.49	77	1084949	39.538ug/ml 86
19) Isophorone	5.75	82	1868247	39.786ug/ml 90
20) 2-Nitrophenol	5.85	139	471302	38.034ug/ml 63
22) 2,4-Dimethylphenol	5.86	107	892936	37.928ug/ml 87
23) Bis(2-chloroethoxy)methane	5.99	93	1129056	39.295ug/ml 99
24) 2,4-Dichlorophenol	6.13	162	707960	38.143ug/ml 96
26) Naphthalene	6.35	128	2260915	36.750ug/ml 99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00572

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV06S40.D Vial: 4
Acq On : 06/20/2015 12:49 Operator: DJC
Sample : SSTD040GV 28436 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:43:01 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27) 4-Chloroaniline	6.41	127	732626	33.118ug/ml	88
29) Hexachlorobutadiene	6.50	225	491403	38.909ug/ml	99
30) Caprolactam	6.87	113	281720	43.424ug/ml m SY 6/23/15	40
31) 4-Chloro-3-methylphenol	7.05	107	798754	39.818ug/ml	90
32) 2-Methylnaphthalene	7.30	142	1417769	36.574ug/ml	98
34) 1,2,4,5-Tetrachlorobenzene	7.55	216	709316	36.720ug/mL	99
35) Hexachlorocyclopentadiene	7.53	237	567109	41.720ug/ml	99
36) 2,4,6-Trichlorophenol	7.72	196	546717	38.578ug/ml	98
37) 2,4,5-Trichlorophenol	7.77	196	551225	40.542ug/ml	97
38) 1,1'-Biphenyl	8.02	154	1837236	39.291ug/ml	96
39) 2-Chloronaphthalene	8.05	162	1534212	38.088ug/ml	96
40) 2-Nitroaniline	8.20	65	603413	37.211ug/ml	77
41) Dimethylphthalate	8.52	163	1742090	39.358ug/ml	100
43) 2,6-Dinitrotoluene	8.62	165	397732	39.648ug/ml	91
44) Acenaphthylene	8.72	152	2322997	36.991ug/ml	100
46) 3-Nitroaniline	8.89	138	255477	31.860ug/ml	86
47) Acenaphthene	9.02	153	1397013	36.740ug/ml	94
48) 2,4-Dinitrophenol	9.06	184	277087	44.628ug/ml	100
49) 4-Nitrophenol	9.18	109	257579	38.905ug/ml	78
51) Dibenzofuran	9.31	168	1788305	35.450ug/ml	96
52) 2,4-Dinitrotoluene	9.30	165	529489	39.363ug/ml	48
53) 2,3,4,6-Tetrachlorophenol	9.52	232	440595	39.607ug/mL	98
54) Diethylphthalate	9.75	149	1852049	40.649ug/ml	95
55) 4-Chlorophenyl-phenylether	9.92	204	795096	38.025ug/ml	99
56) Fluorene	9.91	166	1534355	36.451ug/ml	99
58) 4-Nitroaniline	9.95	138	305936	30.588ug/ml	79
60) 4,6-Dinitro-2-methylphenol	10.00	198	367929	40.538ug/ml	92
62) N-Nitrosodiphenylamine	10.13	169	1236845	38.026ug/ml	93
63) 4-Bromophenyl-phenyl ether	10.80	248	469497	38.970ug/ml	98
64) Hexachlorobenzene	10.89	284	493347	38.394ug/ml	89
65) Atrazine	11.13	200	454648	37.872ug/ml	97
66) Pentachlorophenol	11.24	266	305854	39.845ug/ml	98
67) Phenanthrene	11.63	178	2250039	36.567ug/ml	99
68) Anthracene	11.73	178	2277268	35.996ug/ml	99
70) Carbazole	12.03	167	1318041	26.585ug/mL	98
71) Di-n-butylphthalate	12.75	149	3254347	38.889ug/ml	100
72) Fluoranthene	13.77	202	2480769	36.717ug/ml	98
74) Pyrene	14.13	202	2583145	36.553ug/ml	98
76) Butylbenzylphthalate	15.10	149	1466357	39.996ug/ml	92
77) 3,3'-Dichlorobenzidine	15.74	252	535793	31.707ug/ml	99
78) Benzo(a)anthracene	15.77	228	2491911	37.750ug/ml	98
79) Chrysene	15.82	228	2251803	37.487ug/ml	99
80) Bis-(2-ethylhexyl)phthalat	15.83	149	2100766	38.656ug/ml	97

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV06S40.D Vial: 4
Acq On : 06/20/2015 12:49 Operator: DJC
Sample : SSTD040GV 28436 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:43:01 2015 Results File: GSOM01D6.RES

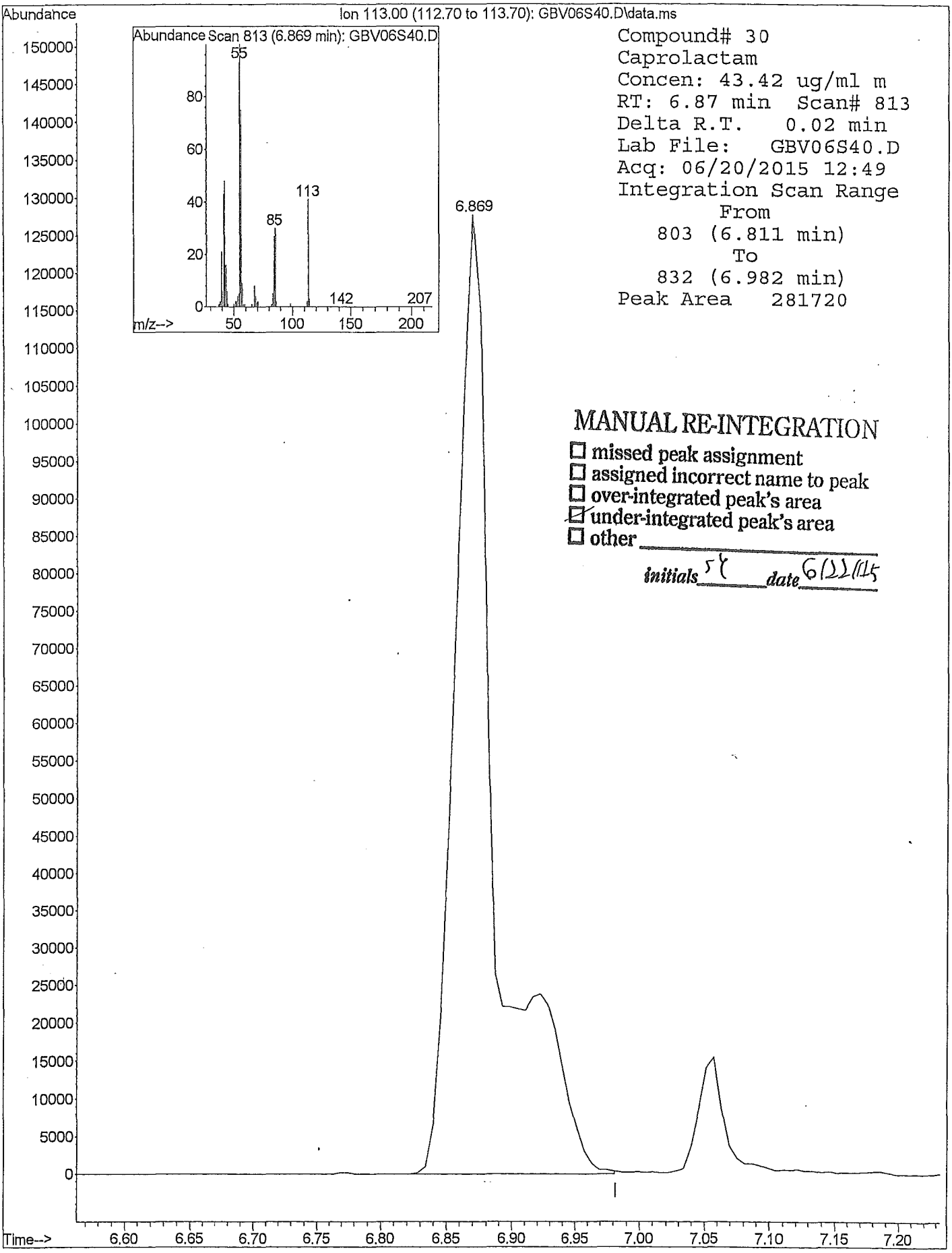
Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.77	149	3788412	39.486ug/ml	97
83) Benzo(b)fluoranthene	17.42	252	2227045	36.883ug/ml	97
84) Benzo(k)fluoranthene	17.47	252	2188343	38.048ug/ml	96
85) Benzo(a)pyrene	18.06	252	2160883	37.938ug/ml	96
87) Indeno(1,2,3-c,d)pyrene	20.86	276	1952060	39.776ug/ml	90
88) Dibenzo(a,h)anthracene	20.94	278	1932994	39.011ug/ml	96
89) Benzo(g,h,i)perylene	21.70	276	1907457	39.057ug/ml	94

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 00974

M A N U A L I N T E G R A T I O N FOR Caprolactam



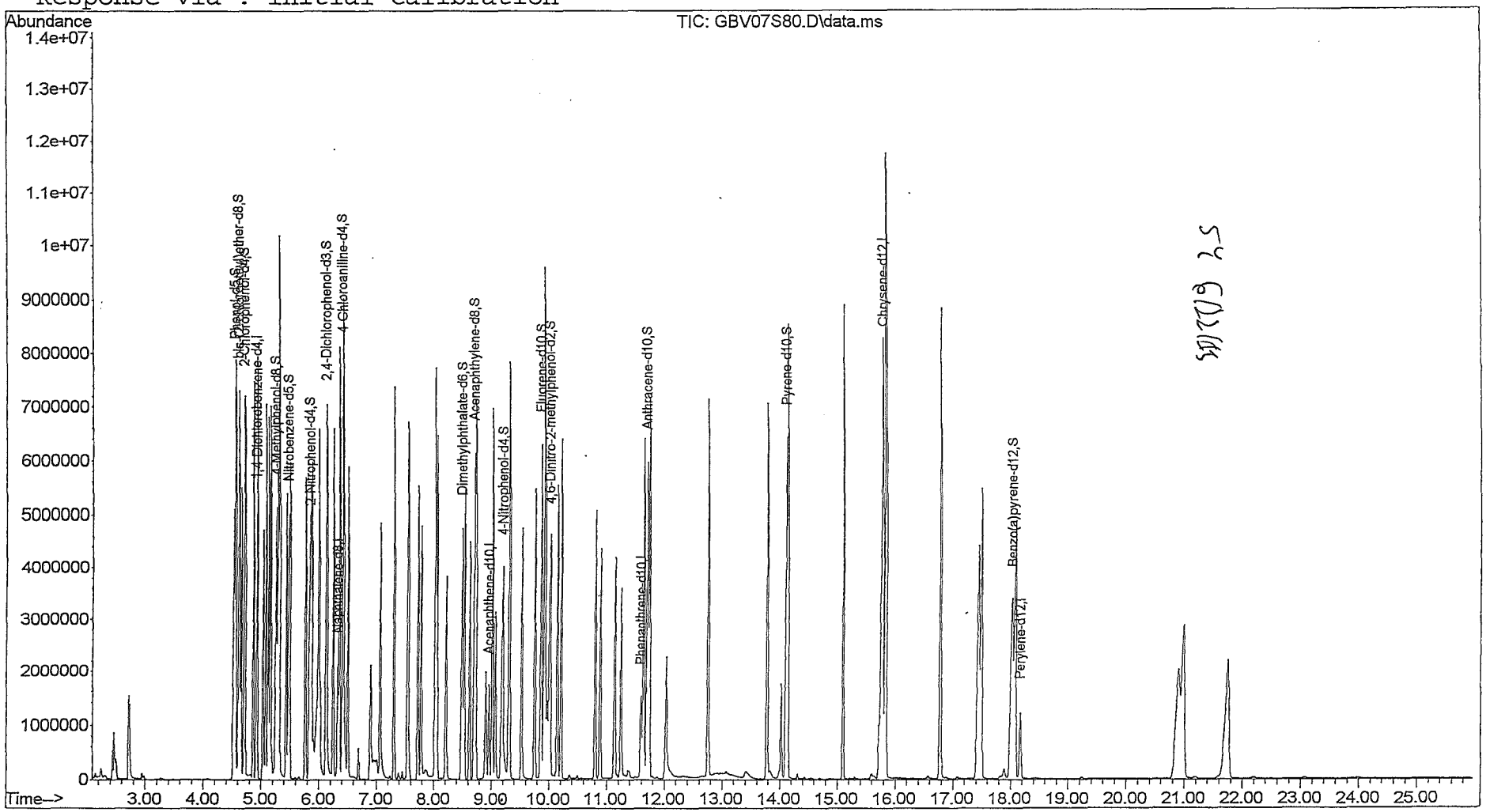
GSOM01D6.M 5975-G GSOM01D6.M SSTD040GV 28436 . X07/19/15

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV07S80.D Vial: 5
Acq On : 06/20/2015 13:22 Operator: DJC
Sample : SSTD080GV 28437 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 20 13:50:11 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV07S80.D Vial: 5
Acq On : 06/20/2015 13:22 Operator: DJC
Sample : SSTD080GV 28437 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:50:11 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.92	152	277225	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1035637	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	585961	20.00 ug/ml
59) Phenanthrene-d10	11.59	188	969286	20.00 ug/ml
73) Chrysene-d12	15.79	240	923361	20.00 ug/ml
81) Perylene-d12	18.17	264	834009	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.55	99	1982464	82.738ug/ml
6) bis-(2-chloroethyl)ether-d	4.62	67	1584805	85.443ug/mL
7) 2-Chlorophenol-d4	4.70	132	1675146	82.819ug/ml
13) 4-Methylphenol-d8	5.25	113	1382291	87.209ug/mL
17) Nitrobenzene-d5	5.47	128	754213	83.658ug/ml
21) 2-Nitrophenol-d4	5.83	143	798149	83.784ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	1242468	83.755ug/mL
28) 4-Chloroaniline-d4	6.40	131	1129750	66.847ug/mL
42) Dimethylphthalate-d6	8.49	166	3071539	84.543ug/mL
45) Acenaphthylene-d8	8.70	160	4111703	82.951ug/mL
50) 4-Nitrophenol-d4	9.19	143	642810	87.863ug/mL
57) Fluorene-d10	9.86	176	2598661	83.551ug/mL
61) 4,6-Dinitro-2-methylphenol	10.01	200	605664	91.085ug/mL
69) Anthracene-d10	11.70	188	4198026	82.100ug/mL
75) Pyrene-d10	14.11	212	3852147	84.547ug/mL
86) Benzo(a)pyrene-d12	18.02	264	3444382	87.887ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.52	77	1229123	73.760ug/ml 88
4) Phenol	4.56	94	2097381	81.117ug/ml 83
5) Bis(2-chloroethyl)ether	4.65	93	1785514	83.967ug/ml 87
8) 2-Chlorophenol	4.72	128	1537499	80.313ug/ml 80
9) 2-Methylphenol	5.12	108	1398916	79.059ug/ml 97
10) 2,2'-Oxybis-(1-chloropropa	5.16	45	4344811	83.091ug/ml 100
11) Acetophenone	5.31	105	2066760	77.318ug/ml 43
12) 4-methylphenol	5.28	108	1564158	80.840ug/ml 98
14) N-Nitroso-di-n-propylamine	5.32	70	1164951	80.386ug/ml 76
15) Hexachloroethane	5.43	117	792100	81.870ug/ml 99
18) Nitrobenzene	5.49	77	1943781	81.630ug/ml 86
19) Isophorone	5.76	82	3410093	83.559ug/ml 90
20) 2-Nitrophenol	5.85	139	869006	81.585ug/ml 62
22) 2,4-Dimethylphenol	5.87	107	1651866	81.680ug/ml 86
23) Bis(2-chloroethoxy)methane	5.99	93	2010222	80.748ug/ml 100
24) 2,4-Dichlorophenol	6.13	162	1289184	80.749ug/ml 96
26) Naphthalene	6.35	128	4157812	79.268ug/ml 100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 68977

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV07S80.D Vial: 5
Acq On : 06/20/2015 13:22 Operator: DJC
Sample : SSTD080GV 28437 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:50:11 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.42	127	1371977	74.468ug/ml	88
29)	Hexachlorobutadiene	6.50	225	889645	81.499ug/ml	99
30)	Caprolactam	6.90	113	488213	84.658ug/ml m	44
31)	4-Chloro-3-methylphenol	7.06	107	1488509	85.361ug/ml	90
32)	2-Methylnaphthalene	7.30	142	2688249	81.430ug/ml	98
34)	1,2,4,5-Tetrachlorobenzene	7.56	216	1297848	79.407ug/mL	98
35)	Hexachlorocyclopentadiene	7.54	237	1026104	86.457ug/ml	99
36)	2,4,6-Trichlorophenol	7.72	196	1021200	84.166ug/ml	99
37)	2,4,5-Trichlorophenol	7.78	196	1032676	87.628ug/ml	99
38)	1,1'-Biphenyl	8.02	154	3095265	76.971ug/ml	97
39)	2-Chloronaphthalene	8.05	162	2684690	78.089ug/ml	97
40)	2-Nitroaniline	8.22	65	1197493	87.522ug/ml	76
41)	Dimethylphthalate	8.53	163	3158299	82.934ug/ml	99
43)	2,6-Dinitrotoluene	8.63	165	717048	82.929ug/ml	90
44)	Acenaphthylene	8.73	152	4177815	78.491ug/ml	99
46)	3-Nitroaniline	8.91	138	486176	75.295ug/ml	82
47)	Acenaphthene	9.02	153	2557862	79.493ug/ml	94
48)	2,4-Dinitrophenol	9.07	184	537610	96.515ug/ml	100
49)	4-Nitrophenol	9.20	109	497312	87.757ug/ml	77
51)	Dibenzofuran	9.32	168	3378235	79.794ug/ml	96
52)	2,4-Dinitrotoluene	9.31	165	923150	79.764ug/ml	44
53)	2,3,4,6-Tetrachlorophenol	9.53	232	826730	86.245ug/mL	98
54)	Diethylphthalate	9.76	149	3270429	82.759ug/ml	96
55)	4-Chlorophenyl-phenylether	9.93	204	1404998	78.758ug/ml	99
56)	Fluorene	9.92	166	2723242	76.593ug/ml	99
58)	4-Nitroaniline	9.96	138	493564	61.988ug/ml	87
60)	4,6-Dinitro-2-methylphenol	10.02	198	682365	87.128ug/ml	90
62)	N-Nitrosodiphenylamine	10.15	169	2130975	77.219ug/ml	93
63)	4-Bromophenyl-phenyl ether	10.80	248	854214	83.072ug/ml	96
64)	Hexachlorobenzene	10.89	284	906280	82.937ug/ml	88
65)	Atrazine	11.14	200	722049	70.960ug/ml	98
66)	Pentachlorophenol	11.25	266	602487	91.487ug/ml	99
67)	Phenanthrene	11.64	178	4127601	79.801ug/ml	99
68)	Anthracene	11.74	178	4148218	78.288ug/ml	99
70)	Carbazole	12.03	167	1970803	50.509ug/mL	99
71)	Di-n-butylphthalate	12.76	149	5771176	80.843ug/ml	100
72)	Fluoranthene	13.78	202	4595038	80.828ug/ml	97
74)	Pyrene	14.14	202	4710269	80.173ug/ml	97
76)	Butylbenzylphthalate	15.10	149	2574119	82.636ug/ml	89
77)	3,3'-Dichlorobenzidine	15.75	252	1125502	82.673ug/ml	98
78)	Benzo(a)anthracene	15.77	228	4711068	85.193ug/ml	99
79)	Chrysene	15.82	228	4157896	82.765ug/ml	100
80)	Bis-(2-ethylhexyl)phthalat	15.84	149	3613164	78.912ug/ml	97

SY 6/22/15

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 88979

Quantitation Report

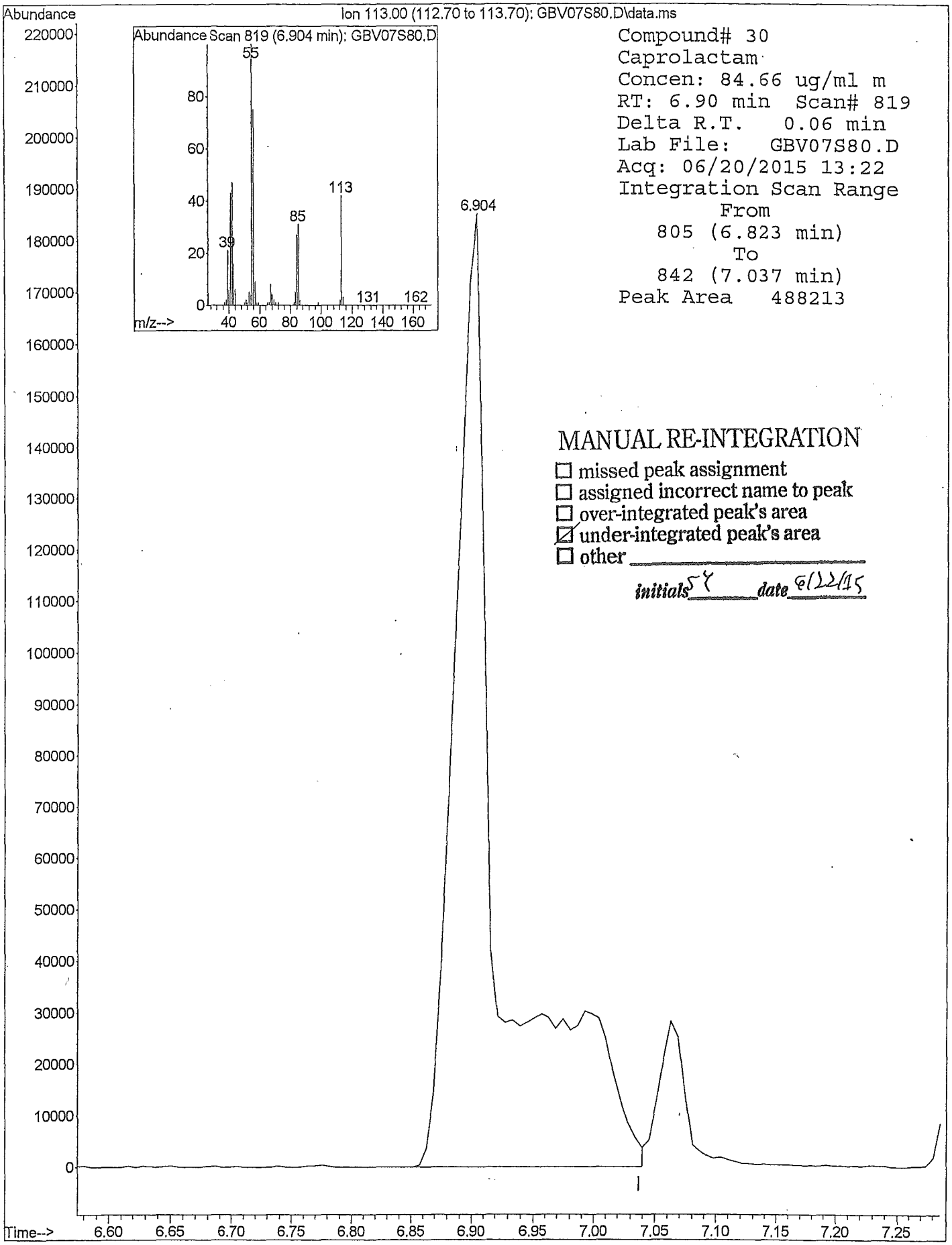
Data File : C:\msdchem\1\data\20...15\20JUN15\GBV07S80.D Vial: 5
Acq On : 06/20/2015 13:22 Operator: DJC
Sample : SSTD080GV 28437 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:50:11 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82)	Di-n-octylphthalate	16.78	149	6729262	81.490ug/ml	97
83)	Benzo(b)fluoranthene	17.44	252	4536385	88.738ug/ml	96
84)	Benzo(k)fluoranthene	17.49	252	4037347	82.300ug/ml	96
85)	Benzo(a)pyrene	18.08	252	4128007	85.032ug/ml	96
87)	Indeno(1,2,3-c,d)pyrene	20.90	276	3844414	90.850ug/ml	91
88)	Dibenzo(a,h)anthracene	20.99	278	3791619	89.174ug/ml	95
89)	Benzo(g,h,i)perylene	21.75	276	3702132	88.312ug/ml	94

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

M A N U A L I N T E G R A T I O N FOR Caprolactam



Compound# 30
Caprolactam
Concen: 84.66 ug/ml m
RT: 6.90 min Scan# 819
Delta R.T. 0.06 min
Lab File: GBV07S80.D
Acq: 06/20/2015 13:22
Integration Scan Range
From
805 (6.823 min)
To
842 (7.037 min)
Peak Area 488213

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☑ under-integrated peak's area
- ☐ other _____

initials SY *date* 6/22/15

GSOM01D6.M 5975-G GSOM01D6.M SSTD080GV 28437 . X07/19/15

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-D Calibration Date: 06/22/2015 Time: 13:05

Lab File ID: DEL02S20 Init. Calib. Date(s): 06/22/2015 06/22/2015

EPA Sample No.(SSTD020##): SSTD020DL Init. Calib. Time(s): 13:05 15:50

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	0.822	0.818	0.010	-0.5	40.0
Phenol	1.394	1.384	0.800	-0.7	25.0
Bis(2-chloroethyl)ether	1.055	1.039	0.700	-1.5	25.0
2-Chlorophenol	1.229	1.225	0.800	-0.3	25.0
2-Methylphenol	1.091	1.077	0.700	-1.3	25.0
2,2'-Oxybis(1-chloropropane)	1.761	1.743	0.010	-1.0	40.0
Acetophenone	1.587	1.544	0.010	-2.7	40.0
4-Methylphenol	1.116	1.091	0.600	-2.3	25.0
N-Nitroso-di-n-propylamine	0.766	0.737	0.500	-3.8	25.0
Hexachloroethane	0.588	0.574	0.300	-2.4	25.0
Nitrobenzene	0.356	0.349	0.200	-2.0	25.0
Isophorone	0.602	0.593	0.400	-1.6	25.0
2-Nitrophenol	0.197	0.195	0.100	-1.0	25.0
2,4-Dimethylphenol	0.324	0.323	0.200	-0.1	25.0
Bis(2-chloroethoxy)methane	0.375	0.361	0.300	-3.8	25.0
2,4-Dichlorophenol	0.330	0.333	0.200	1.0	25.0
Naphthalene	1.005	1.001	0.700	-0.4	25.0
4-Chloroaniline	0.399	0.413	0.010	3.5	40.0
Hexachlorobutadiene	0.248	0.242	0.010	-2.1	40.0
Caprolactam	0.095	0.095	0.010	1.0	40.0
4-Chloro-3-methylphenol	0.273	0.272	0.200	-0.6	25.0
2-Methylnaphthalene	0.675	0.675	0.400	0.0	25.0
Hexachlorocyclopentadiene	0.433	0.436	0.010	0.7	40.0
2,4,6-Trichlorophenol	0.410	0.406	0.200	-0.8	25.0
2,4,5-Trichlorophenol	0.432	0.425	0.200	-1.5	25.0
1,1'-Biphenyl	1.357	1.340	0.010	-1.2	40.0
2-Chloronaphthalene	1.122	1.094	0.800	-2.5	25.0
2-Nitroaniline	0.305	0.307	0.010	0.7	40.0
Dimethylphthalate	1.233	1.202	0.010	-2.5	40.0
2,6-Dinitrotoluene	0.278	0.274	0.200	-1.6	25.0
Acenaphthylene	1.777	1.766	0.900	-0.6	25.0
3-Nitroaniline	0.251	0.283	0.010	12.7	40.0
Acenaphthene	1.111	1.107	0.900	-0.4	25.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-D Calibration Date: 06/22/2015 Time: 13:05

Lab File ID: DEL02S20 Init. Calib. Date(s): 06/22/2015 06/22/2015

EPA Sample No.(SSTD020##): SSTD020DL Init. Calib. Time(s): 13:05 15:50

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.176	0.172	0.010	-2.2	40.0
4-Nitrophenol	0.155	0.155	0.010	-0.3	40.0
Dibenzofuran	1.587	1.580	0.800	-0.4	25.0
2,4-Dinitrotoluene	0.393	0.382	0.200	-2.8	25.0
Diethylphthalate	1.231	1.191	0.010	-3.2	40.0
Fluorene	1.318	1.340	0.900	1.7	25.0
4-Chlorophenyl-phenylether	0.687	0.690	0.400	0.5	25.0
4-Nitroaniline	0.270	0.302	0.010	11.9	40.0
4,6-Dinitro-2-methylphenol	0.149	0.146	0.010	-1.7	40.0
N-Nitrosodiphenylamine (1)	0.503	0.486	0.010	-3.5	40.0
1,2,4,5-Tetrachlorobenzene	0.644	0.641	0.010	-0.4	40.0
4-Bromophenyl-phenylether	0.235	0.227	0.100	-3.4	25.0
Hexachlorobenzene	0.254	0.246	0.100	-3.0	25.0
Atrazine	0.211	0.214	0.010	1.0	40.0
Pentachlorophenol	0.142	0.137	0.050	-3.2	25.0
Phenanthrene	1.077	1.071	0.700	-0.6	25.0
Anthracene	1.120	1.116	0.700	-0.3	25.0
Carbazole	0.856	0.930	0.010	8.6	40.0
Di-n-butylphthalate	1.241	1.206	0.010	-2.8	40.0
Fluoranthene	1.270	1.285	0.600	1.1	25.0
Pyrene	1.085	1.100	0.600	1.4	25.0
Butylbenzylphthalate	0.456	0.444	0.010	-2.6	40.0
3,3'-Dichlorobenzidine	0.361	0.365	0.010	1.1	40.0
Benzo(a)anthracene	1.128	1.156	0.800	2.5	25.0
Chrysene	0.955	1.025	0.700	7.3	25.0
Bis(2-ethylhexyl)phthalate	0.683	0.704	0.010	3.0	40.0
Di-n-octylphthalate	1.281	1.257	0.010	-1.9	40.0
Benzo(b)fluoranthene	1.165	1.188	0.700	2.0	25.0
Benzo(k)fluoranthene	1.108	1.112	0.700	0.4	25.0
Benzo(a)pyrene	1.121	1.132	0.700	0.9	25.0
Indeno(1,2,3-cd)pyrene	1.047	0.988	0.500	-5.7	25.0
Dibenzo(a,h)anthracene	1.075	1.007	0.400	-6.3	25.0
Benzo(g,h,i)perylene	1.047	1.000	0.500	-4.5	25.0
2,3,4,6-Tetrachlorophenol	0.366	0.368	0.100	0.7	25.0

(1) Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-D Calibration Date: 06/22/2015 Time: 13:05

Lab File ID: DEL02S20 Init. Calib. Date(s): 06/22/2015 06/22/2015

EPA Sample No.(SSTD020##): SSTD020DL Init. Calib. Time(s): 13:05 15:50

GC Column: DB5MS ID: 0.32 (mm)

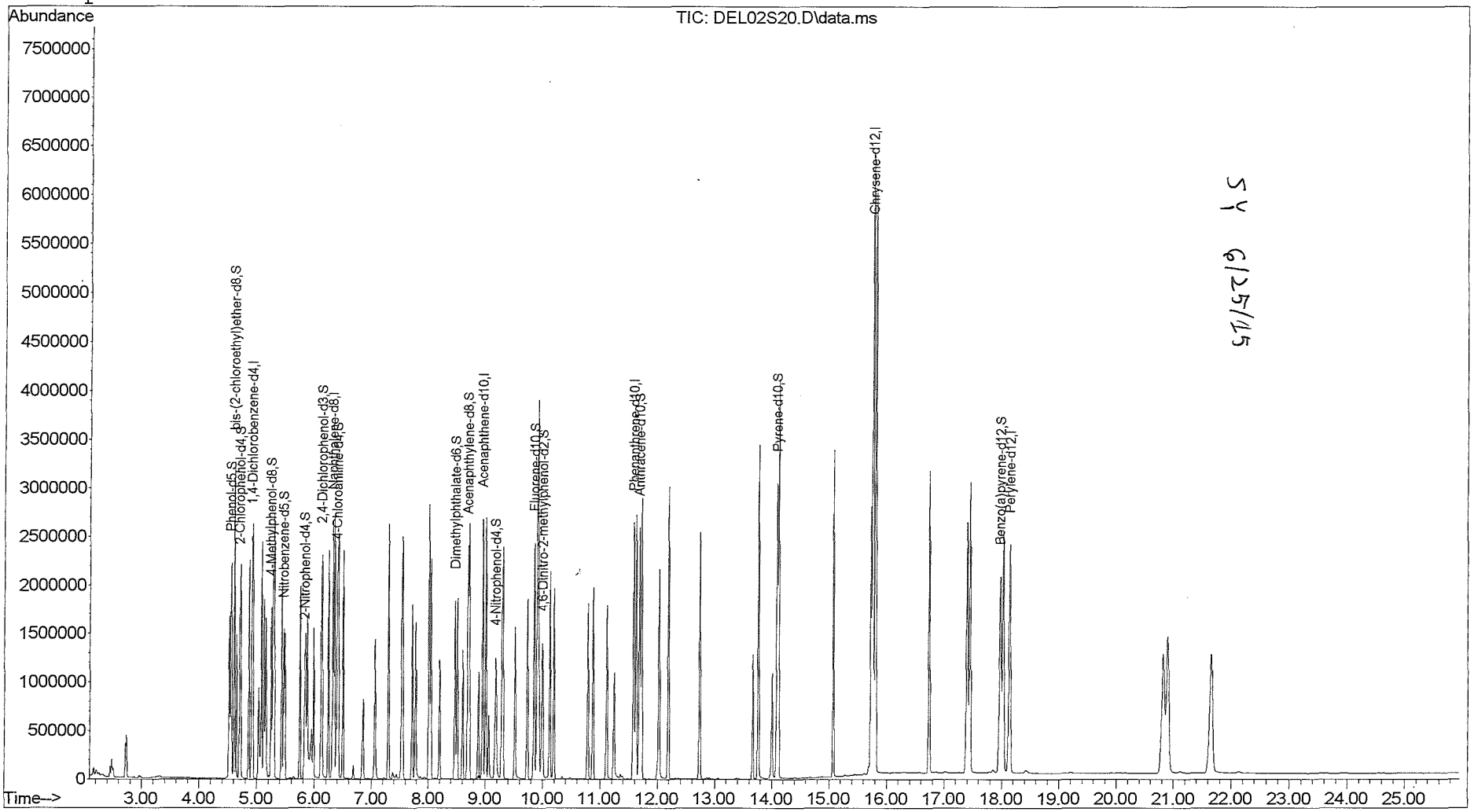
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.312	1.337	0.010	1.9	25.0
Bis(2-chloroethyl)ether-d8	0.982	0.988	0.010	0.7	25.0
2-Chlorophenol-d4	1.234	1.262	0.010	2.3	25.0
4-Methylphenol-d8	0.974	0.990	0.010	1.6	25.0
Nitrobenzene-d5	0.165	0.168	0.010	2.3	25.0
2-Nitrophenol-d4	0.188	0.190	0.010	1.5	25.0
2,4-Dichlorophenol-d3	0.322	0.327	0.010	1.5	25.0
4-Chloroaniline-d4	0.329	0.351	0.010	6.7	40.0
Dimethylphthalate-d6	1.247	1.264	0.010	1.4	40.0
Acenaphthylene-d8	1.639	1.663	0.010	1.5	25.0
4-Nitrophenol-d4	0.233	0.237	0.010	1.8	40.0
Fluorene-d10	1.107	1.119	0.010	1.1	25.0
4,6-Dinitro-2-methylphenol-d2	0.129	0.129	0.010	-0.2	40.0
Anthracene-d10	1.041	1.049	0.010	0.7	25.0
Pyrene-d10	0.819	0.826	0.010	0.8	25.0
Benzo(a)pyrene-d12	0.925	0.950	0.010	2.8	25.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\22JUN15\DEL02S20.D Vial: 1
Acq On : 06/22/2015 13:05 Operator: DJC
Sample : SSTD020DL 28463 DFTPPDL Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 22 16:26:30 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 24 09:23:52 2015
Response via : Initial Calibration



SY 6/25/15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\22JUN15\DEL02S20.D Vial: 1
Acq On : 06/22/2015 13:05 Operator: DJC
Sample : SSTD020DL 28463 DFTPPDL Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 22 16:26:30 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 24 09:23:52 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.91	152	411445	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1389566	20.00 ug/ml
33) Acenaphthene-d10	8.95	164	878032	20.00 ug/ml
59) Phenanthrene-d10	11.58	188	1586377	20.00 ug/ml
73) Chrysene-d12	15.76	240	1999621	20.00 ug/ml
81) Perylene-d12	18.14	264	1813788	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.55	99	550087	21.283ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	406604	21.437ug/mL
7) 2-Chlorophenol-d4	4.70	132	519118	20.337ug/ml
13) 4-Methylphenol-d8	5.25	113	407306	21.066ug/mL
17) Nitrobenzene-d5	5.46	128	234088	20.449ug/ml
21) 2-Nitrophenol-d4	5.82	143	264640	19.559ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	454561	20.742ug/mL
28) 4-Chloroaniline-d4	6.39	131	487178	26.735ug/mL
42) Dimethylphthalate-d6	8.47	166	1109806	20.368ug/mL
45) Acenaphthylene-d8	8.69	160	1460434	20.497ug/mL
50) 4-Nitrophenol-d4	9.17	143	208135	22.446ug/mL
57) Fluorene-d10	9.85	176	982190	20.465ug/mL
61) 4,6-Dinitro-2-methylphenol	9.99	200	203995	20.328ug/mL
69) Anthracene-d10	11.68	188	1663797	20.440ug/mL
75) Pyrene-d10	14.09	212	1651787	19.787ug/mL
86) Benzo(a)pyrene-d12	17.97	264	1723761	20.640ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.52	77	336511	20.438ug/ml 94
4) Phenol	4.56	94	569243	21.473ug/ml 88
5) Bis(2-chloroethyl)ether	4.65	93	427691	18.800ug/ml 98
8) 2-Chlorophenol	4.72	128	504174	20.792ug/ml 99
9) 2-Methylphenol	5.12	108	443280	21.525ug/ml 99
10) 2,2'-Oxybis-(1-chloropropa	5.15	45	717292	21.239ug/ml 100
11) Acetophenone	5.30	105	635447	21.598ug/ml 70
12) 4-methylphenol	5.27	108	448717	21.034ug/ml 97
14) N-Nitroso-di-n-propylamine	5.29	70	303087	21.044ug/ml 80
15) Hexachloroethane	5.43	117	236268	20.696ug/ml 80
18) Nitrobenzene	5.49	77	484501	21.671ug/ml 96
19) Isophorone	5.75	82	823535	21.350ug/ml 93
20) 2-Nitrophenol	5.84	139	271492	20.128ug/ml 98
22) 2,4-Dimethylphenol	5.87	107	449112	20.557ug/ml 93
23) Bis(2-chloroethoxy)methane	5.98	93	502085	20.290ug/ml 98
24) 2,4-Dichlorophenol	6.13	162	462886	21.220ug/ml 96
26) Naphthalene	6.35	128	1390592	20.876ug/ml 100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

8985

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\22JUN15\DEL02S20.D Vial: 1
Acq On : 06/22/2015 13:05 Operator: DJC
Sample : SSTD020DL 28463 DFTPPDL Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 22 16:26:30 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 24 09:23:52 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.40	127	574068	26.526ug/ml	99
29)	Hexachlorobutadiene	6.49	225	336852	20.329ug/ml	99
30)	Caprolactam	6.85	113	132695	22.485ug/ml	90
31)	4-Chloro-3-methylphenol	7.06	107	377859	20.711ug/ml	92
32)	2-Methylnaphthalene	7.30	142	937622	20.788ug/ml	96
34)	1,2,4,5-Tetrachlorobenzene	7.55	216	562752	20.374ug/mL	97
35)	Hexachlorocyclopentadiene	7.53	237	382667	23.026ug/ml	98
36)	2,4,6-Trichlorophenol	7.72	196	356758	20.782ug/ml	99
37)	2,4,5-Trichlorophenol	7.77	196	373262	20.566ug/ml	98
38)	1,1'-Biphenyl	8.01	154	1176242	21.315ug/ml	96
39)	2-Chloronaphthalene	8.05	162	960644	20.782ug/ml	93
40)	2-Nitroaniline	8.20	65	269519	21.849ug/ml	96
41)	Dimethylphthalate	8.51	163	1055686	20.297ug/ml	99
43)	2,6-Dinitrotoluene	8.60	165	240181	21.065ug/ml	95
44)	Acenaphthylene	8.72	152	1550971	21.313ug/ml	98
46)	3-Nitroaniline	8.88	138	248828	27.831ug/ml	97
47)	Acenaphthene	9.01	153	971796	21.399ug/ml	92
48)	2,4-Dinitrophenol	9.06	184	151448	21.487ug/ml	100
49)	4-Nitrophenol	9.19	109	136114	24.253ug/ml	97
51)	Dibenzofuran	9.30	168	1387413	20.750ug/ml	94
52)	2,4-Dinitrotoluene	9.29	165	335242	21.639ug/ml	77
53)	2,3,4,6-Tetrachlorophenol	9.52	232	323126	21.620ug/mL	92
54)	Diethylphthalate	9.73	149	1045883	20.098ug/ml	99
55)	4-Chlorophenyl-phenylether	9.91	204	606230	21.258ug/ml	88
56)	Fluorene	9.90	166	1176837	22.076ug/ml	98
58)	4-Nitroaniline	9.93	138	265088	24.475ug/ml	86
60)	4,6-Dinitro-2-methylphenol	10.00	198	232313	20.766ug/ml	93
62)	N-Nitrosodiphenylamine	10.12	169	770700	20.204ug/ml	96
63)	4-Bromophenyl-phenyl ether	10.79	248	359527	19.514ug/ml	87
64)	Hexachlorobenzene	10.87	284	390816	19.981ug/ml	83
65)	Atrazine	11.12	200	338696	21.422ug/ml	98
66)	Pentachlorophenol	11.24	266	217780	21.209ug/ml	98
67)	Phenanthrene	11.62	178	1698248	21.360ug/ml	99
68)	Anthracene	11.72	178	1770540	21.595ug/ml	98
70)	Carbazole	12.02	167	1474696	22.006ug/mL	96
71)	Di-n-butylphthalate	12.73	149	1913908	20.845ug/ml	99
72)	Fluoranthene	13.76	202	2038057	22.176ug/ml	88
74)	Pyrene	14.12	202	2198908	21.286ug/ml	87
76)	Butylbenzylphthalate	15.07	149	888770	20.188ug/ml	95
77)	3,3'-Dichlorobenzidine	15.72	252	729221	21.314ug/ml	95
78)	Benzo(a)anthracene	15.75	228	2311291	21.869ug/ml	97
79)	Chrysene	15.80	228	2048860	21.555ug/ml	97
80)	Bis-(2-ethylhexyl)phthalat	15.81	149	1407195	20.522ug/ml	99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\22JUN15\DEL02S20.D Vial: 1
Acq On : 06/22/2015 13:05 Operator: DJC
Sample : SSTD020DL 28463 DFTPPDL Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 22 16:26:30 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 24 09:23:52 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82)	Di-n-octylphthalate	16.74	149	2279486	21.360ug/ml	99
83)	Benzo(b)fluoranthene	17.40	252	2154177	22.144ug/ml	92
84)	Benzo(k)fluoranthene	17.44	252	2017726	21.230ug/ml	93
85)	Benzo(a)pyrene	18.03	252	2052630	21.671ug/ml	92
87)	Indeno(1,2,3-c,d)pyrene	20.82	276	1791784	20.150ug/ml	79
88)	Dibenzo(a,h)anthracene	20.90	278	1826203	20.021ug/ml	90
89)	Benzo(g,h,i)perylene	21.66	276	1813700	20.184ug/ml	87

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00997

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-D Calibration Date: 06/22/2015 Time: 19:49

Lab File ID: DEL13S20 Init. Calib. Date(s): 06/22/2015 06/22/2015

EPA Sample No.(SSTD020##): SSTD020L1 Init. Calib. Time(s): 13:05 15:50

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	0.822	0.822	0.010	0.1	50.0
Phenol	1.394	1.384	0.010	-0.7	50.0
Bis(2-chloroethyl)ether	1.055	1.021	0.010	-3.2	50.0
2-Chlorophenol	1.229	1.215	0.010	-1.1	50.0
2-Methylphenol	1.091	1.082	0.010	-0.9	50.0
2,2'-Oxybis(1-chloropropane)	1.761	1.754	0.010	-0.4	50.0
Acetophenone	1.587	1.553	0.010	-2.1	50.0
4-Methylphenol	1.116	1.102	0.010	-1.2	50.0
N-Nitroso-di-n-propylamine	0.766	0.735	0.010	-4.0	50.0
Hexachloroethane	0.588	0.509	0.010	-13.4	50.0
Nitrobenzene	0.356	0.353	0.010	-0.9	50.0
Isophorone	0.602	0.605	0.010	0.4	50.0
2-Nitrophenol	0.197	0.199	0.010	0.7	50.0
2,4-Dimethylphenol	0.324	0.330	0.010	2.0	50.0
Bis(2-chloroethoxy)methane	0.375	0.369	0.010	-1.9	50.0
2,4-Dichlorophenol	0.330	0.332	0.010	0.6	50.0
Naphthalene	1.005	1.019	0.010	1.4	50.0
4-Chloroaniline	0.399	0.422	0.010	5.6	50.0
Hexachlorobutadiene	0.248	0.243	0.010	-2.0	50.0
Caprolactam	0.095	0.100	0.010	5.5	50.0
4-Chloro-3-methylphenol	0.273	0.281	0.010	2.7	50.0
2-Methylnaphthalene	0.675	0.688	0.010	2.0	50.0
Hexachlorocyclopentadiene	0.433	0.128	0.010	-70.4	50.0
2,4,6-Trichlorophenol	0.410	0.410	0.010	0.0	50.0
2,4,5-Trichlorophenol	0.432	0.425	0.010	-1.5	50.0
1,1'-Biphenyl	1.357	1.324	0.010	-2.4	50.0
2-Chloronaphthalene	1.122	1.080	0.010	-3.8	50.0
2-Nitroaniline	0.305	0.309	0.010	1.4	50.0
Dimethylphthalate	1.233	1.190	0.010	-3.4	50.0
2,6-Dinitrotoluene	0.278	0.274	0.010	-1.5	50.0
Acenaphthylene	1.777	1.757	0.010	-1.2	50.0
3-Nitroaniline	0.251	0.291	0.010	15.7	50.0
Acenaphthene	1.111	1.098	0.010	-1.1	50.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-D Calibration Date: 06/22/2015 Time: 19:49

Lab File ID: DEL13S20 Init. Calib. Date(s): 06/22/2015 06/22/2015

EPA Sample No.(SSTD020##): SSTD020L1 Init. Calib. Time(s): 13:05 15:50

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.176	0.148	0.010	-15.9	50.0
4-Nitrophenol	0.155	0.159	0.010	2.2	50.0
Dibenzofuran	1.587	1.586	0.010	0.0	50.0
2,4-Dinitrotoluene	0.393	0.381	0.010	-3.1	50.0
Diethylphthalate	1.231	1.191	0.010	-3.3	50.0
Fluorene	1.318	1.343	0.010	1.9	50.0
4-Chlorophenyl-phenylether	0.687	0.684	0.010	-0.5	50.0
4-Nitroaniline	0.270	0.307	0.010	13.7	50.0
4,6-Dinitro-2-methylphenol	0.149	0.132	0.010	-11.4	50.0
N-Nitrosodiphenylamine (1)	0.503	0.497	0.010	-1.2	50.0
1,2,4,5-Tetrachlorobenzene	0.644	0.619	0.010	-3.8	50.0
4-Bromophenyl-phenylether	0.235	0.227	0.010	-3.3	50.0
Hexachlorobenzene	0.254	0.247	0.010	-2.9	50.0
Atrazine	0.211	0.206	0.010	-2.4	50.0
Pentachlorophenol	0.142	0.147	0.010	3.7	50.0
Phenanthrene	1.077	1.075	0.010	-0.1	50.0
Anthracene	1.120	1.119	0.010	0.0	50.0
Carbazole	0.856	0.927	0.010	8.2	50.0
Di-n-butylphthalate	1.241	1.214	0.010	-2.2	50.0
Fluoranthene	1.270	1.300	0.010	2.3	50.0
Pyrene	1.085	1.094	0.010	0.8	50.0
Butylbenzylphthalate	0.456	0.440	0.010	-3.6	50.0
3,3'-Dichlorobenzidine	0.361	0.382	0.010	5.9	50.0
Benzo(a)anthracene	1.128	1.147	0.010	1.7	50.0
Chrysene	0.955	1.012	0.010	6.0	50.0
Bis(2-ethylhexyl)phthalate	0.683	0.715	0.010	4.6	50.0
Di-n-octylphthalate	1.281	1.293	0.010	0.9	50.0
Benzo(b)fluoranthene	1.165	1.185	0.010	1.7	50.0
Benzo(k)fluoranthene	1.108	1.108	0.010	-0.1	50.0
Benzo(a)pyrene	1.121	1.092	0.010	-2.6	50.0
Indeno(1,2,3-cd)pyrene	1.047	0.939	0.010	-10.3	50.0
Dibenzo(a,h)anthracene	1.075	0.974	0.010	-9.3	50.0
Benzo(g,h,i)perylene	1.047	0.903	0.010	-13.8	50.0
2,3,4,6-Tetrachlorophenol	0.366	0.376	0.010	2.8	50.0

(1) Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-D Calibration Date: 06/22/2015 Time: 19:49

Lab File ID: DEL13S20 Init. Calib. Date(s): 06/22/2015 06/22/2015

EPA Sample No.(SSTD020##): SSTD020L1 Init. Calib. Time(s): 13:05 15:50

GC Column: DB5MS ID: 0.32 (mm)

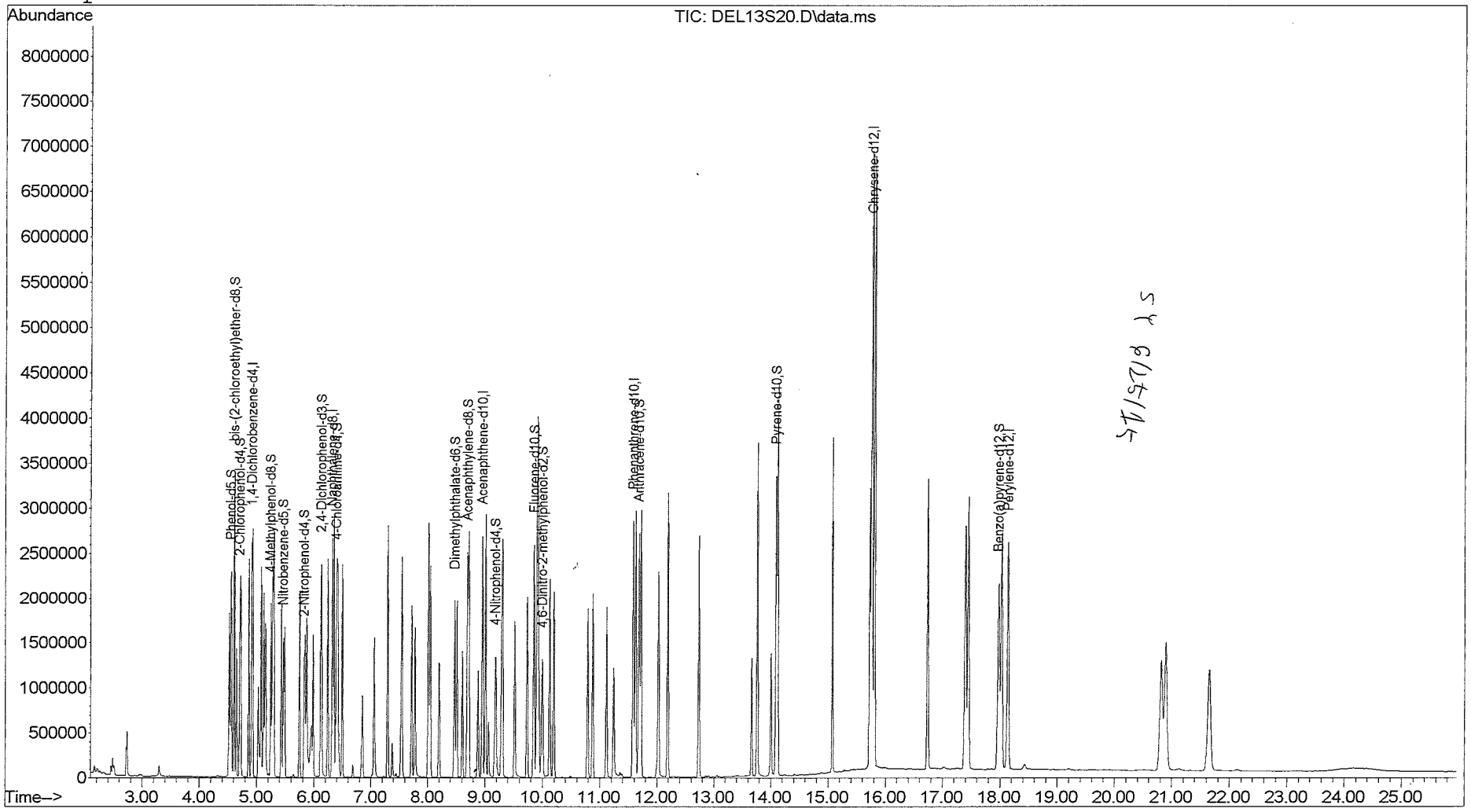
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.312	1.330	0.010	1.4	50.0
Bis(2-chloroethyl)ether-d8	0.982	0.987	0.010	0.6	50.0
2-Chlorophenol-d4	1.234	1.255	0.010	1.8	50.0
4-Methylphenol-d8	0.974	1.008	0.010	3.4	50.0
Nitrobenzene-d5	0.165	0.169	0.010	2.4	50.0
2-Nitrophenol-d4	0.188	0.193	0.010	2.7	50.0
2,4-Dichlorophenol-d3	0.322	0.331	0.010	2.8	50.0
4-Chloroaniline-d4	0.329	0.366	0.010	11.3	50.0
Dimethylphthalate-d6	1.247	1.262	0.010	1.2	50.0
Acenaphthylene-d8	1.639	1.659	0.010	1.2	50.0
4-Nitrophenol-d4	0.233	0.241	0.010	3.4	50.0
Fluorene-d10	1.107	1.114	0.010	0.6	50.0
4,6-Dinitro-2-methylphenol-d2	0.129	0.117	0.010	-9.4	50.0
Anthracene-d10	1.041	1.053	0.010	1.1	50.0
Pyrene-d10	0.819	0.835	0.010	1.9	50.0
Benzo(a)pyrene-d12	0.925	0.907	0.010	-2.0	50.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\22JUN15\DEL13S20.D Vial: 1
Acq On : 06/22/2015 19:49 Operator: DJC
Sample : SSTD020L1 28463 DFTPPL1 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 22 20:15:21 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 24 09:26:38 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\22JUN15\DEL13S20.D Vial: 1
Acq On : 06/22/2015 19:49 Operator: DJC
Sample : SSTD020L1 28463 DFTPPL1 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 22 20:15:21 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 24 09:26:38 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.91	152	426520	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1431248	20.00 ug/ml
33) Acenaphthene-d10	8.95	164	931717	20.00 ug/ml
59) Phenanthrene-d10	11.58	188	1685469	20.00 ug/ml
73) Chrysene-d12	15.76	240	2150328	20.00 ug/ml
81) Perylene-d12	18.14	264	1896133	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.55	99	567356	20.285ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	421080	20.114ug/mL
7) 2-Chlorophenol-d4	4.70	132	535484	20.353ug/ml
13) 4-Methylphenol-d8	5.25	113	429732	20.681ug/mL
17) Nitrobenzene-d5	5.46	128	241248	20.474ug/ml
21) 2-Nitrophenol-d4	5.83	143	275689	20.532ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	474076	20.554ug/mL
28) 4-Chloroaniline-d4	6.39	131	523345	22.251ug/mL
42) Dimethylphthalate-d6	8.47	166	1175868	20.243ug/mL
45) Acenaphthylene-d8	8.69	160	1545838	20.247ug/mL
50) 4-Nitrophenol-d4	9.17	143	224203	20.678ug/mL
57) Fluorene-d10	9.85	176	1038011	20.129ug/mL
61) 4,6-Dinitro-2-methylphenol	9.99	200	196719	18.115ug/mL
69) Anthracene-d10	11.68	188	1774260	20.221ug/mL
75) Pyrene-d10	14.09	212	1794619	20.375ug/mL
86) Benzo(a)pyrene-d12	17.97	264	1719142	19.605ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.52	77	350732	20.017ug/ml 94
4) Phenol	4.56	94	590317	19.863ug/ml 88
5) Bis(2-chloroethyl)ether	4.65	93	435398	19.351ug/ml 96
8) 2-Chlorophenol	4.72	128	518130	19.773ug/ml 98
9) 2-Methylphenol	5.12	108	461426	19.828ug/ml 99
10) 2,2'-Oxybis-(1-chloropropa	5.15	45	748164	19.919ug/ml 100
11) Acetophenone	5.30	105	662362	19.576ug/ml 62
12) 4-methylphenol	5.27	108	470068	19.756ug/ml 98
14) N-Nitroso-di-n-propylamine	5.29	70	313649	19.209ug/ml 79
15) Hexachloroethane	5.43	117	217287	17.316ug/ml 79
18) Nitrobenzene	5.49	77	504720	19.817ug/ml 95
19) Isophorone	5.75	82	865263	20.074ug/ml 93
20) 2-Nitrophenol	5.84	139	284377	20.145ug/ml 97
22) 2,4-Dimethylphenol	5.87	107	472233	20.393ug/ml 93
23) Bis(2-chloroethoxy)methane	5.98	93	527421	19.629ug/ml 98
24) 2,4-Dichlorophenol	6.13	162	475296	20.129ug/ml 96
26) Naphthalene	6.35	128	1458403	20.274ug/ml 100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\22JUN15\DEL13S20.D Vial: 1
Acq On : 06/22/2015 19:49 Operator: DJC
Sample : SSTD020L1 28463 DFTPPL1 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 22 20:15:21 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 24 09:26:38 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.40	127	603517	21.129ug/ml	98
29)	Hexachlorobutadiene	6.49	225	347229	19.596ug/ml	99
30)	Caprolactam	6.85	113	142724	21.099ug/ml	90
31)	4-Chloro-3-methylphenol	7.06	107	402089	20.546ug/ml	93
32)	2-Methylnaphthalene	7.30	142	984702	20.399ug/ml	97
34)	1,2,4,5-Tetrachlorobenzene	7.55	216	576932	19.236ug/mL	96
35)	Hexachlorocyclopentadiene	7.53	237	119418	5.925ug/ml	98
36)	2,4,6-Trichlorophenol	7.72	196	381563	19.997ug/ml	99
37)	2,4,5-Trichlorophenol	7.77	196	396069	19.690ug/ml	99
38)	1,1'-Biphenyl	8.01	154	1233514	19.518ug/ml	97
39)	2-Chloronaphthalene	8.05	162	1005826	19.248ug/ml	93
40)	2-Nitroaniline	8.20	65	288012	20.276ug/ml	95
41)	Dimethylphthalate	8.51	163	1109197	19.316ug/ml	99
43)	2,6-Dinitrotoluene	8.60	165	255243	19.706ug/ml	96
44)	Acenaphthylene	8.72	152	1636666	19.766ug/ml	98
46)	3-Nitroaniline	8.88	138	271062	23.138ug/ml	95
47)	Acenaphthene	9.01	153	1023136	19.772ug/ml	93
48)	2,4-Dinitrophenol	9.06	184	138325	16.829ug/ml	100
49)	4-Nitrophenol	9.19	109	147979	20.437ug/ml	96
51)	Dibenzofuran	9.30	168	1477981	19.991ug/ml	94
52)	2,4-Dinitrotoluene	9.29	165	354800	19.386ug/ml	76
53)	2,3,4,6-Tetrachlorophenol	9.52	232	350136	20.559ug/mL	92
54)	Diethylphthalate	9.73	149	1109422	19.349ug/ml	99
55)	4-Chlorophenyl-phenylether	9.92	204	636942	19.892ug/ml	89
56)	Fluorene	9.90	166	1250940	20.375ug/ml	99
58)	4-Nitroaniline	9.93	138	285747	22.730ug/ml	87
60)	4,6-Dinitro-2-methylphenol	10.00	198	222367	17.712ug/ml	93
62)	N-Nitrosodiphenylamine	10.12	169	837991	19.753ug/ml	97
63)	4-Bromophenyl-phenyl ether	10.79	248	382350	19.344ug/ml	87
64)	Hexachlorobenzene	10.87	284	415530	19.414ug/ml	83
65)	Atrazine	11.12	200	347537	19.513ug/ml	98
66)	Pentachlorophenol	11.24	266	247736	20.731ug/ml	97
67)	Phenanthrene	11.62	178	1812395	19.975ug/ml	99
68)	Anthracene	11.72	178	1886446	19.992ug/ml	99
70)	Carbazole	12.02	167	1562185	21.650ug/mL	96
71)	Di-n-butylphthalate	12.73	149	2045969	19.560ug/ml	99
72)	Fluoranthene	13.76	202	2191350	20.468ug/ml	88
74)	Pyrene	14.12	202	2351914	20.166ug/ml	87
76)	Butylbenzylphthalate	15.07	149	945926	19.284ug/ml	95
77)	3,3'-Dichlorobenzidine	15.72	252	821851	21.181ug/ml	96
78)	Benzo(a)anthracene	15.75	228	2465605	20.339ug/ml	97
79)	Chrysene	15.80	228	2176448	21.191ug/ml	97
80)	Bis-(2-ethylhexyl)phthalat	15.81	149	1536975	20.919ug/ml	99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 00999

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\22JUN15\DEL13S20.D Vial: 1
Acq On : 06/22/2015 19:49 Operator: DJC
Sample : SSTD020L1 28463 DFTPPL1 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 22 20:15:21 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 24 09:26:38 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.74	149	2451911	20.186ug/ml	100
83) Benzo(b)fluoranthene	17.40	252	2246288	20.343ug/ml	93
84) Benzo(k)fluoranthene	17.44	252	2100231	19.990ug/ml	93
85) Benzo(a)pyrene	18.03	252	2069802	19.473ug/ml	92
87) Indeno(1,2,3-c,d)pyrene	20.82	276	1780996	17.936ug/ml	79
88) Dibenzo(a,h)anthracene	20.90	278	1847452	18.130ug/ml	91
89) Benzo(g,h,i)perylene	21.65	276	1711292	17.248ug/ml	87

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 88994

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-D Calibration Date: 06/23/2015 Time: 08:20

Lab File ID: DEM01S20 Init. Calib. Date(s): 06/22/2015 06/22/2015

EPA Sample No.(SSTD020##): SSTD020DM Init. Calib. Time(s): 13:05 15:50

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	0.822	0.730	0.010	-11.2	40.0
Phenol	1.394	1.441	0.800	3.4	25.0
Bis(2-chloroethyl)ether	1.055	1.109	0.700	5.1	25.0
2-Chlorophenol	1.229	1.245	0.800	1.4	25.0
2-Methylphenol	1.091	1.119	0.700	2.5	25.0
2,2'-Oxybis(1-chloropropane)	1.761	1.864	0.010	5.8	40.0
Acetophenone	1.587	1.578	0.010	-0.6	40.0
4-Methylphenol	1.116	1.116	0.600	0.0	25.0
N-Nitroso-di-n-propylamine	0.766	0.765	0.500	-0.1	25.0
Hexachloroethane	0.588	0.596	0.300	1.3	25.0
Nitrobenzene	0.356	0.365	0.200	2.7	25.0
Isophorone	0.602	0.612	0.400	1.6	25.0
2-Nitrophenol	0.197	0.202	0.100	2.3	25.0
2,4-Dimethylphenol	0.324	0.323	0.200	-0.3	25.0
Bis(2-chloroethoxy)methane	0.375	0.375	0.300	-0.2	25.0
2,4-Dichlorophenol	0.330	0.335	0.200	1.5	25.0
Naphthalene	1.005	1.039	0.700	3.4	25.0
4-Chloroaniline	0.399	0.371	0.010	-7.0	40.0
Hexachlorobutadiene	0.248	0.247	0.010	-0.3	40.0
Caprolactam	0.095	0.094	0.010	-0.6	40.0
4-Chloro-3-methylphenol	0.273	0.276	0.200	0.9	25.0
2-Methylnaphthalene	0.675	0.693	0.400	2.7	25.0
Hexachlorocyclopentadiene	0.433	0.442	0.010	2.2	40.0
2,4,6-Trichlorophenol	0.410	0.397	0.200	-3.0	25.0
2,4,5-Trichlorophenol	0.432	0.416	0.200	-3.8	25.0
1,1'-Biphenyl	1.357	1.340	0.010	-1.2	40.0
2-Chloronaphthalene	1.122	1.084	0.800	-3.3	25.0
2-Nitroaniline	0.305	0.309	0.010	1.2	40.0
Dimethylphthalate	1.233	1.195	0.010	-3.1	40.0
2,6-Dinitrotoluene	0.278	0.267	0.200	-4.0	25.0
Acenaphthylene	1.777	1.734	0.900	-2.5	25.0
3-Nitroaniline	0.251	0.255	0.010	1.3	40.0
Acenaphthene	1.111	1.089	0.900	-2.0	25.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-D Calibration Date: 06/23/2015 Time: 08:20

Lab File ID: DEM01S20 Init. Calib. Date(s): 06/22/2015 06/22/2015

EPA Sample No.(SSTD020##): SSTD020DM Init. Calib. Time(s): 13:05 15:50

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.176	0.173	0.010	-1.9	40.0
4-Nitrophenol	0.155	0.151	0.010	-3.1	40.0
Dibenzofuran	1.587	1.579	0.800	-0.5	25.0
2,4-Dinitrotoluene	0.393	0.377	0.200	-4.0	25.0
Diethylphthalate	1.231	1.256	0.010	2.1	40.0
Fluorene	1.318	1.327	0.900	0.7	25.0
4-Chlorophenyl-phenylether	0.687	0.671	0.400	-2.4	25.0
4-Nitroaniline	0.270	0.264	0.010	-2.0	40.0
4,6-Dinitro-2-methylphenol	0.149	0.145	0.010	-2.8	40.0
N-Nitrosodiphenylamine (1)	0.503	0.485	0.010	-3.7	40.0
1,2,4,5-Tetrachlorobenzene	0.644	0.634	0.010	-1.5	40.0
4-Bromophenyl-phenylether	0.235	0.223	0.100	-5.0	25.0
Hexachlorobenzene	0.254	0.236	0.100	-7.1	25.0
Atrazine	0.211	0.214	0.010	1.3	40.0
Pentachlorophenol	0.142	0.131	0.050	-7.5	25.0
Phenanthrene	1.077	1.063	0.700	-1.3	25.0
Anthracene	1.120	1.099	0.700	-1.8	25.0
Carbazole	0.856	0.911	0.010	6.4	40.0
Di-n-butylphthalate	1.241	1.229	0.010	-1.0	40.0
Fluoranthene	1.270	1.276	0.600	0.5	25.0
Pyrene	1.085	1.115	0.600	2.8	25.0
Butylbenzylphthalate	0.456	0.462	0.010	1.2	40.0
3,3'-Dichlorobenzidine	0.361	0.358	0.010	-0.7	40.0
Benzo(a)anthracene	1.128	1.140	0.800	1.1	25.0
Chrysene	0.955	1.017	0.700	6.4	25.0
Bis(2-ethylhexyl)phthalate	0.683	0.736	0.010	7.7	40.0
Di-n-octylphthalate	1.281	1.294	0.010	1.0	40.0
Benzo(b)fluoranthene	1.165	1.160	0.700	-0.4	25.0
Benzo(k)fluoranthene	1.108	1.102	0.700	-0.6	25.0
Benzo(a)pyrene	1.121	1.099	0.700	-2.0	25.0
Indeno(1,2,3-cd)pyrene	1.047	1.061	0.500	1.3	25.0
Dibenzo(a,h)anthracene	1.075	1.075	0.400	0.0	25.0
Benzo(g,h,i)perylene	1.047	1.058	0.500	1.1	25.0
2,3,4,6-Tetrachlorophenol	0.366	0.354	0.100	-3.0	25.0

(1) Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-D Calibration Date: 06/23/2015 Time: 08:20

Lab File ID: DEM01S20 Init. Calib. Date(s): 06/22/2015 06/22/2015

EPA Sample No.(SSTD020##): SSTD020DM Init. Calib. Time(s): 13:05 15:50

GC Column: DB5MS ID: 0.32 (mm)

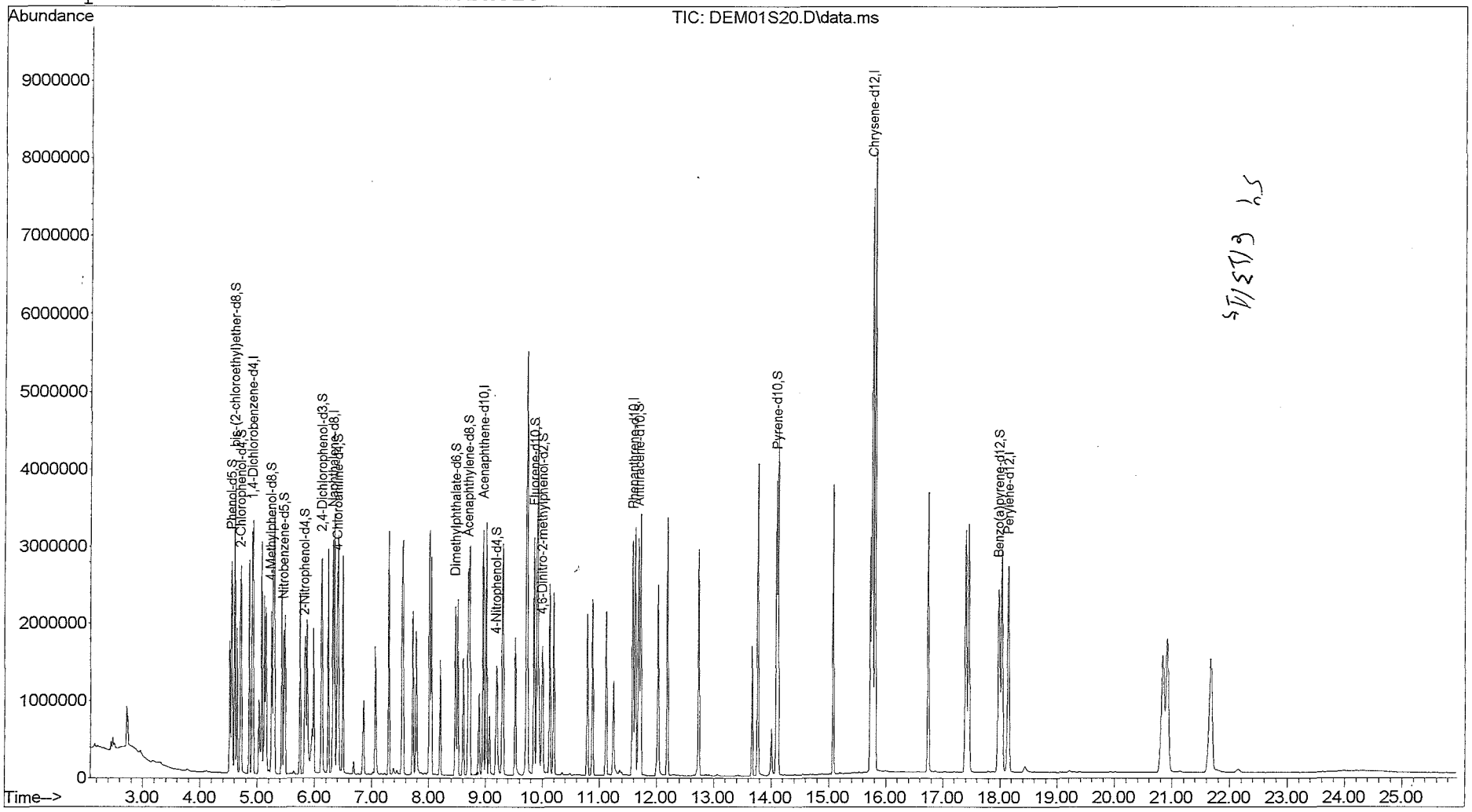
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.312	1.380	0.010	5.2	25.0
Bis(2-chloroethyl)ether-d8	0.982	1.051	0.010	7.1	25.0
2-Chlorophenol-d4	1.234	1.287	0.010	4.3	25.0
4-Methylphenol-d8	0.974	1.003	0.010	2.9	25.0
Nitrobenzene-d5	0.165	0.172	0.010	4.7	25.0
2-Nitrophenol-d4	0.188	0.193	0.010	2.9	25.0
2,4-Dichlorophenol-d3	0.322	0.334	0.010	3.6	25.0
4-Chloroaniline-d4	0.329	0.313	0.010	-4.8	40.0
Dimethylphthalate-d6	1.247	1.251	0.010	0.3	40.0
Acenaphthylene-d8	1.639	1.645	0.010	0.4	25.0
4-Nitrophenol-d4	0.233	0.226	0.010	-2.9	40.0
Fluorene-d10	1.107	1.105	0.010	-0.1	25.0
4,6-Dinitro-2-methylphenol-d2	0.129	0.127	0.010	-1.1	40.0
Anthracene-d10	1.041	1.033	0.010	-0.7	25.0
Pyrene-d10	0.819	0.837	0.010	2.1	25.0
Benzo(a)pyrene-d12	0.925	0.927	0.010	0.2	25.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\23JUN15\DEM01S20.D Vial: 1
Acq On : 06/23/2015 08:20 Operator: DJC
Sample : SSTD020DM 28463 DFTPPDM Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 23 08:46:56 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 23 09:00:50 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\23JUN15\DEM01S20.D Vial: 1
Acq On : 06/23/2015 08:20 Operator: DJC
Sample : SSTD020DM 28463 DFTPPDM Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 23 08:46:56 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 23 09:00:50 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.91	152	491401	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1621639	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	1046674	20.00 ug/ml
59) Phenanthrene-d10	11.58	188	1887820	20.00 ug/ml
73) Chrysene-d12	15.77	240	2335905	20.00 ug/ml
81) Perylene-d12	18.15	264	2165960	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.55	99	677956	21.038ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	516634	21.420ug/mL
7) 2-Chlorophenol-d4	4.70	132	632330	20.861ug/ml
13) 4-Methylphenol-d8	5.25	113	492793	20.585ug/mL
17) Nitrobenzene-d5	5.46	128	279655	20.947ug/ml
21) 2-Nitrophenol-d4	5.83	143	313195	20.587ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	541618	20.726ug/mL
28) 4-Chloroaniline-d4	6.39	131	507383	19.039ug/mL
42) Dimethylphthalate-d6	8.47	166	1309156	20.062ug/mL
45) Acenaphthylene-d8	8.69	160	1721463	20.070ug/mL
50) 4-Nitrophenol-d4	9.19	143	236432	19.411ug/mL
57) Fluorene-d10	9.85	176	1156953	19.971ug/mL
61) 4,6-Dinitro-2-methylphenol	9.99	200	240581	19.779ug/mL
69) Anthracene-d10	11.69	188	1951033	19.852ug/mL
75) Pyrene-d10	14.09	212	1954267	20.425ug/mL
86) Benzo(a)pyrene-d12	17.98	264	2007559	20.042ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.52	77	358631	17.765ug/ml 93
4) Phenol	4.56	94	708128	20.681ug/ml 86
5) Bis(2-chloroethyl)ether	4.65	93	544848	21.019ug/ml 98
8) 2-Chlorophenol	4.72	128	611999	20.272ug/ml 97
9) 2-Methylphenol	5.12	108	549658	20.500ug/ml 98
10) 2,2'-Oxybis-(1-chloropropa	5.15	45	916054	21.168ug/ml 100
11) Acetophenone	5.30	105	775223	19.887ug/ml 61
12) 4-methylphenol	5.27	108	548228	19.999ug/ml 99
14) N-Nitroso-di-n-propylamine	5.29	70	375820	19.978ug/ml 79
15) Hexachloroethane	5.43	117	292800	20.253ug/ml 84
18) Nitrobenzene	5.49	77	592681	20.539ug/ml 94
19) Isophorone	5.75	82	992200	20.316ug/ml 93
20) 2-Nitrophenol	5.85	139	327370	20.468ug/ml 97
22) 2,4-Dimethylphenol	5.87	107	522989	19.933ug/ml 92
23) Bis(2-chloroethoxy)methane	5.98	93	607792	19.964ug/ml 99
24) 2,4-Dichlorophenol	6.13	162	542910	20.293ug/ml 96
26) Naphthalene	6.35	128	1684710	20.670ug/ml 100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\23JUN15\DEM01S20.D Vial: 1
Acq On : 06/23/2015 08:20 Operator: DJC
Sample : SSTD020DM 28463 DFTPPDM Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 23 08:46:56 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 23 09:00:50 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.40	127	601632	18.590ug/ml	97
29)	Hexachlorobutadiene	6.49	225	400436	19.946ug/ml	99
30)	Caprolactam	6.86	113	152323	19.874ug/ml	85
31)	4-Chloro-3-methylphenol	7.06	107	447487	20.181ug/ml	94
32)	2-Methylnaphthalene	7.30	142	1123377	20.540ug/ml	96
34)	1,2,4,5-Tetrachlorobenzene	7.55	216	663804	19.702ug/mL	97
35)	Hexachlorocyclopentadiene	7.53	237	462578	20.431ug/ml	97
36)	2,4,6-Trichlorophenol	7.72	196	415687	19.392ug/ml	99
37)	2,4,5-Trichlorophenol	7.78	196	434900	19.246ug/ml	98
38)	1,1'-Biphenyl	8.02	154	1402457	19.754ug/ml	96
39)	2-Chloronaphthalene	8.05	162	1135002	19.334ug/ml	94
40)	2-Nitroaniline	8.20	65	322983	20.241ug/ml	94
41)	Dimethylphthalate	8.51	163	1250685	19.388ug/ml	99
43)	2,6-Dinitrotoluene	8.61	165	279458	19.206ug/ml	98
44)	Acenaphthylene	8.72	152	1814451	19.507ug/ml	98
46)	3-Nitroaniline	8.89	138	266663	20.262ug/ml	96
47)	Acenaphthene	9.01	153	1139910	19.609ug/ml	92
48)	2,4-Dinitrophenol	9.07	184	181146	19.619ug/ml	100
49)	4-Nitrophenol	9.20	109	157617	19.377ug/ml	96
51)	Dibenzofuran	9.31	168	1652722	19.899ug/ml	95
52)	2,4-Dinitrotoluene	9.29	165	394742	19.200ug/ml	73
53)	2,3,4,6-Tetrachlorophenol	9.52	232	371035	19.394ug/mL	93
54)	Diethylphthalate	9.73	149	1314903	20.414ug/ml	99
55)	4-Chlorophenyl-phenylether	9.92	204	702042	19.517ug/ml	90
56)	Fluorene	9.90	166	1388493	20.131ug/ml	99
58)	4-Nitroaniline	9.94	138	276721	19.595ug/ml	85
60)	4,6-Dinitro-2-methylphenol	10.00	198	273485	19.449ug/ml	93
62)	N-Nitrosodiphenylamine	10.13	169	915394	19.264ug/ml	97
63)	4-Bromophenyl-phenyl ether	10.79	248	420797	19.007ug/ml	88
64)	Hexachlorobenzene	10.88	284	445646	18.590ug/ml	85
65)	Atrazine	11.12	200	404202	20.262ug/ml	98
66)	Pentachlorophenol	11.25	266	247638	18.501ug/ml	99
67)	Phenanthrene	11.63	178	2006695	19.746ug/ml	99
68)	Anthracene	11.72	178	2074770	19.631ug/ml	98
70)	Carbazole	12.03	167	1719347	21.274ug/mL	96
71)	Di-n-butylphthalate	12.74	149	2320316	19.805ug/ml	99
72)	Fluoranthene	13.77	202	2409152	20.091ug/ml	89
74)	Pyrene	14.12	202	2604611	20.558ug/ml	87
76)	Butylbenzylphthalate	15.07	149	1078553	20.241ug/ml	96
77)	3,3'-Dichlorobenzidine	15.73	252	836950	19.857ug/ml	96
78)	Benzo(a)anthracene	15.76	228	2663189	20.223ug/ml	97
79)	Chrysene	15.80	228	2374512	21.283ug/ml	97
80)	Bis-(2-ethylhexyl)phthalat	15.81	149	1719098	21.539ug/ml	99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

01000

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\23JUN15\DEM01S20.D Vial: 1
Acq On : 06/23/2015 08:20 Operator: DJC
Sample : SSTD020DM 28463 DFTPPDM Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 23 08:46:56 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 23 09:00:50 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82)	Di-n-octylphthalate	16.74	149	2803574	20.206ug/ml	100
83)	Benzo(b)fluoranthene	17.40	252	2513384	19.927ug/ml	93
84)	Benzo(k)fluoranthene	17.45	252	2386912	19.888ug/ml	93
85)	Benzo(a)pyrene	18.03	252	2379871	19.601ug/ml	92
87)	Indeno(1,2,3-c,d)pyrene	20.84	276	2297019	20.251ug/ml	77
88)	Dibenzo(a,h)anthracene	20.92	278	2328493	20.005ug/ml	90
89)	Benzo(g,h,i)perylene	21.67	276	2290769	20.212ug/ml	86

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

01691

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-D Calibration Date: 06/23/2015 Time: 09:28

Lab File ID: DEM03S20 Init. Calib. Date(s): 06/22/2015 06/22/2015

EPA Sample No.(SSTD020##): SSTD020M1 Init. Calib. Time(s): 13:05 15:50

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	0.822	0.726	0.010	-11.7	50.0
Phenol	1.394	1.456	0.010	4.5	50.0
Bis(2-chloroethyl)ether	1.055	1.070	0.010	1.4	50.0
2-Chlorophenol	1.229	1.253	0.010	2.0	50.0
2-Methylphenol	1.091	1.130	0.010	3.6	50.0
2,2'-Oxybis(1-chloropropane)	1.761	1.916	0.010	8.8	50.0
Acetophenone	1.587	1.617	0.010	1.9	50.0
4-Methylphenol	1.116	1.139	0.010	2.1	50.0
N-Nitroso-di-n-propylamine	0.766	0.787	0.010	2.7	50.0
Hexachloroethane	0.588	0.468	0.010	-20.5	50.0
Nitrobenzene	0.356	0.363	0.010	2.1	50.0
Isophorone	0.602	0.625	0.010	3.8	50.0
2-Nitrophenol	0.197	0.200	0.010	1.5	50.0
2,4-Dimethylphenol	0.324	0.332	0.010	2.5	50.0
Bis(2-chloroethoxy)methane	0.375	0.383	0.010	2.1	50.0
2,4-Dichlorophenol	0.330	0.337	0.010	2.0	50.0
Naphthalene	1.005	1.029	0.010	2.3	50.0
4-Chloroaniline	0.399	0.412	0.010	3.3	50.0
Hexachlorobutadiene	0.248	0.246	0.010	-0.8	50.0
Caprolactam	0.095	0.100	0.010	5.8	50.0
4-Chloro-3-methylphenol	0.273	0.287	0.010	4.9	50.0
2-Methylnaphthalene	0.675	0.698	0.010	3.5	50.0
Hexachlorocyclopentadiene	0.433	0.085	0.010	-80.4	50.0
2,4,6-Trichlorophenol	0.410	0.403	0.010	-1.5	50.0
2,4,5-Trichlorophenol	0.432	0.421	0.010	-2.5	50.0
1,1'-Biphenyl	1.357	1.325	0.010	-2.4	50.0
2-Chloronaphthalene	1.122	1.063	0.010	-5.3	50.0
2-Nitroaniline	0.305	0.311	0.010	1.9	50.0
Dimethylphthalate	1.233	1.201	0.010	-2.6	50.0
2,6-Dinitrotoluene	0.278	0.272	0.010	-2.3	50.0
Acenaphthylene	1.777	1.746	0.010	-1.8	50.0
3-Nitroaniline	0.251	0.281	0.010	11.7	50.0
Acenaphthene	1.111	1.096	0.010	-1.3	50.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-D Calibration Date: 06/23/2015 Time: 09:28

Lab File ID: DEM03S20 Init. Calib. Date(s): 06/22/2015 06/22/2015

EPA Sample No.(SSTD020##): SSTD020M1 Init. Calib. Time(s): 13:05 15:50

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.176	0.155	0.010	-11.9	50.0
4-Nitrophenol	0.155	0.157	0.010	0.8	50.0
Dibenzofuran	1.587	1.579	0.010	-0.5	50.0
2,4-Dinitrotoluene	0.393	0.385	0.010	-1.9	50.0
Diethylphthalate	1.231	1.237	0.010	0.5	50.0
Fluorene	1.318	1.346	0.010	2.2	50.0
4-Chlorophenyl-phenylether	0.687	0.680	0.010	-1.1	50.0
4-Nitroaniline	0.270	0.296	0.010	9.6	50.0
4,6-Dinitro-2-methylphenol	0.149	0.134	0.010	-9.7	50.0
N-Nitrosodiphenylamine (1)	0.503	0.487	0.010	-3.3	50.0
1,2,4,5-Tetrachlorobenzene	0.644	0.617	0.010	-4.2	50.0
4-Bromophenyl-phenylether	0.235	0.226	0.010	-3.6	50.0
Hexachlorobenzene	0.254	0.239	0.010	-5.9	50.0
Atrazine	0.211	0.207	0.010	-2.1	50.0
Pentachlorophenol	0.142	0.137	0.010	-3.7	50.0
Phenanthrene	1.077	1.068	0.010	-0.8	50.0
Anthracene	1.120	1.114	0.010	-0.5	50.0
Carbazole	0.856	0.901	0.010	5.2	50.0
Di-n-butylphthalate	1.241	1.236	0.010	-0.4	50.0
Fluoranthene	1.270	1.301	0.010	2.4	50.0
Pyrene	1.085	1.129	0.010	4.1	50.0
Butylbenzylphthalate	0.456	0.533	0.010	16.8	50.0
3,3'-Dichlorobenzidine	0.361	0.375	0.010	3.9	50.0
Benzo(a)anthracene	1.128	1.150	0.010	2.0	50.0
Chrysene	0.955	1.010	0.010	5.7	50.0
Bis(2-ethylhexyl)phthalate	0.683	0.738	0.010	8.0	50.0
Di-n-octylphthalate	1.281	1.331	0.010	3.9	50.0
Benzo(b)fluoranthene	1.165	1.132	0.010	-2.8	50.0
Benzo(k)fluoranthene	1.108	1.121	0.010	1.2	50.0
Benzo(a)pyrene	1.121	1.095	0.010	-2.3	50.0
Indeno(1,2,3-cd)pyrene	1.047	0.939	0.010	-10.3	50.0
Dibenzo(a,h)anthracene	1.075	0.979	0.010	-8.9	50.0
Benzo(g,h,i)perylene	1.047	0.885	0.010	-15.4	50.0
2,3,4,6-Tetrachlorophenol	0.366	0.366	0.010	0.1	50.0

(1) Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-D Calibration Date: 06/23/2015 Time: 09:28

Lab File ID: DEM03S20 Init. Calib. Date(s): 06/22/2015 06/22/2015

EPA Sample No.(SSTD020##): SSTD020M1 Init. Calib. Time(s): 13:05 15:50

GC Column: DB5MS ID: 0.32 (mm)

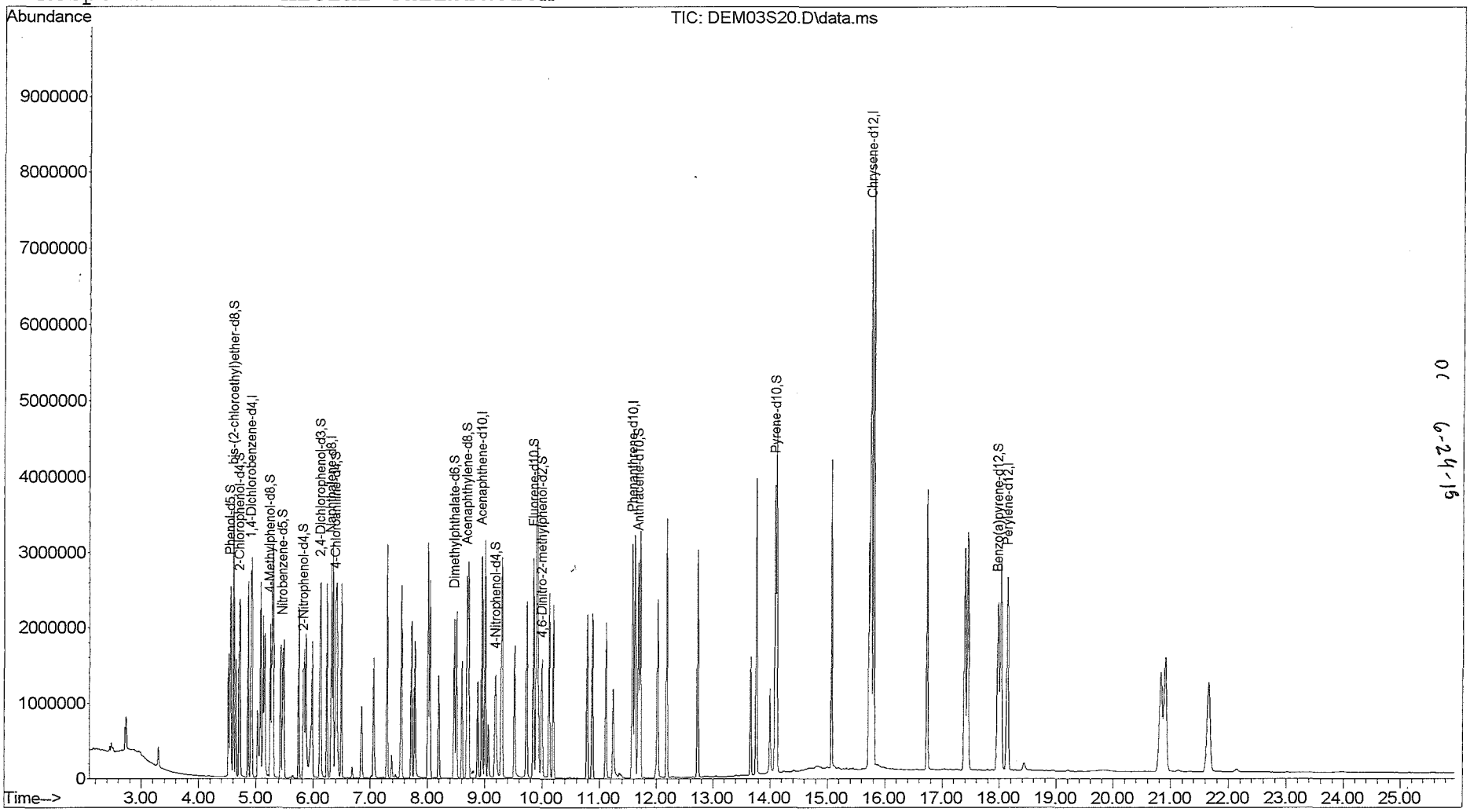
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.312	1.391	0.010	6.1	50.0
Bis(2-chloroethyl)ether-d8	0.982	1.068	0.010	8.8	50.0
2-Chlorophenol-d4	1.234	1.300	0.010	5.4	50.0
4-Methylphenol-d8	0.974	1.039	0.010	6.7	50.0
Nitrobenzene-d5	0.165	0.171	0.010	3.9	50.0
2-Nitrophenol-d4	0.188	0.196	0.010	4.7	50.0
2,4-Dichlorophenol-d3	0.322	0.336	0.010	4.3	50.0
4-Chloroaniline-d4	0.329	0.367	0.010	11.7	50.0
Dimethylphthalate-d6	1.247	1.273	0.010	2.1	50.0
Acenaphthylene-d8	1.639	1.639	0.010	0.0	50.0
4-Nitrophenol-d4	0.233	0.237	0.010	1.9	50.0
Fluorene-d10	1.107	1.119	0.010	1.1	50.0
4,6-Dinitro-2-methylphenol-d2	0.129	0.118	0.010	-8.5	50.0
Anthracene-d10	1.041	1.043	0.010	0.2	50.0
Pyrene-d10	0.819	0.846	0.010	3.3	50.0
Benzo(a)pyrene-d12	0.925	0.924	0.010	-0.1	50.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\23JUN15\DEM03S20.D Vial: 1
Acq On : 06/23/2015 09:28 Operator: DJC
Sample : SSTD020M1 28463 DFTPPM1 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 23 09:54:33 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 24 09:33:13 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\23JUN15\DEM03S20.D Vial: 1
Acq On : 06/23/2015 09:28 Operator: DJC
Sample : SSTD020M1 28463 DFTPPM1 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 23 09:54:33 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 24 09:33:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.91	152	440780	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1497013	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	998858	20.00 ug/ml
59) Phenanthrene-d10	11.58	188	1841529	20.00 ug/ml
73) Chrysene-d12	15.76	240	2274222	20.00 ug/ml
81) Perylene-d12	18.14	264	2098325	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.55	99	613288	21.217ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	470796	21.761ug/mL
7) 2-Chlorophenol-d4	4.70	132	573111	21.078ug/ml
13) 4-Methylphenol-d8	5.25	113	458148	21.336ug/mL
17) Nitrobenzene-d5	5.46	128	255995	20.771ug/ml
21) 2-Nitrophenol-d4	5.83	143	293965	20.932ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	503315	20.863ug/mL
28) 4-Chloroaniline-d4	6.39	131	549792	22.348ug/mL
42) Dimethylphthalate-d6	8.47	166	1271818	20.423ug/mL
45) Acenaphthylene-d8	8.69	160	1637179	20.002ug/mL
50) 4-Nitrophenol-d4	9.18	143	236891	20.380ug/mL
57) Fluorene-d10	9.85	176	1117976	20.222ug/mL
61) 4,6-Dinitro-2-methylphenol	9.99	200	217042	18.292ug/mL
69) Anthracene-d10	11.69	188	1920345	20.031ug/mL
75) Pyrene-d10	14.09	212	1924973	20.665ug/mL
86) Benzo(a)pyrene-d12	17.97	264	1938427	19.976ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.52	77	319786	17.660ug/ml 93
4) Phenol	4.56	94	641639	20.891ug/ml 87
5) Bis(2-chloroethyl)ether	4.65	93	471558	20.280ug/ml 95
8) 2-Chlorophenol	4.72	128	552399	20.399ug/ml 97
9) 2-Methylphenol	5.12	108	498244	20.717ug/ml 99
10) 2,2'-Oxybis-(1-chloropropa	5.15	45	844394	21.753ug/ml 100
11) Acetophenone	5.30	105	712958	20.390ug/ml 60
12) 4-methylphenol	5.27	108	502198	20.424ug/ml 97
14) N-Nitroso-di-n-propylamine	5.29	70	346702	20.547ug/ml 78
15) Hexachloroethane	5.43	117	206108	15.894ug/ml 83
18) Nitrobenzene	5.49	77	543932	20.419ug/ml 95
19) Isophorone	5.75	82	935847	20.758ug/ml 93
20) 2-Nitrophenol	5.84	139	299589	20.291ug/ml 98
22) 2,4-Dimethylphenol	5.87	107	496502	20.499ug/ml 93
23) Bis(2-chloroethoxy)methane	5.98	93	573967	20.423ug/ml 98
24) 2,4-Dichlorophenol	6.13	162	503857	20.401ug/ml 96
26) Naphthalene	6.35	128	1539678	20.463ug/ml 100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

01005

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\23JUN15\DEM03S20.D Vial: 1
Acq On : 06/23/2015 09:28 Operator: DJC
Sample : SSTD020M1 28463 DFTPPM1 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 23 09:54:33 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 24 09:33:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.40	127	617100	20.656ug/ml	97
29)	Hexachlorobutadiene	6.49	225	367820	19.846ug/ml	100
30)	Caprolactam	6.85	113	149685	21.156ug/ml	85
31)	4-Chloro-3-methylphenol	7.06	107	429284	20.972ug/ml	95
32)	2-Methylnaphthalene	7.30	142	1044966	20.697ug/ml	96
34)	1,2,4,5-Tetrachlorobenzene	7.55	216	616003	19.158ug/mL	96
35)	Hexachlorocyclopentadiene	7.53	237	84634	3.917ug/ml	97
36)	2,4,6-Trichlorophenol	7.72	196	402962	19.699ug/ml	99
37)	2,4,5-Trichlorophenol	7.78	196	420620	19.505ug/ml	98
38)	1,1'-Biphenyl	8.01	154	1323105	19.529ug/ml	97
39)	2-Chloronaphthalene	8.05	162	1061546	18.948ug/ml	94
40)	2-Nitroaniline	8.20	65	310359	20.381ug/ml	94
41)	Dimethylphthalate	8.51	163	1199509	19.485ug/ml	99
43)	2,6-Dinitrotoluene	8.60	165	271297	19.538ug/ml	97
44)	Acenaphthylene	8.72	152	1743675	19.643ug/ml	98
46)	3-Nitroaniline	8.88	138	280476	22.332ug/ml	97
47)	Acenaphthene	9.01	153	1094670	19.733ug/ml	93
48)	2,4-Dinitrophenol	9.06	184	155235	17.617ug/ml	100
49)	4-Nitrophenol	9.20	109	156496	20.160ug/ml	95
51)	Dibenzofuran	9.30	168	1577390	19.901ug/ml	95
52)	2,4-Dinitrotoluene	9.29	165	384994	19.622ug/ml	74
53)	2,3,4,6-Tetrachlorophenol	9.52	232	365630	20.026ug/mL	92
54)	Diethylphthalate	9.73	149	1235795	20.105ug/ml	99
55)	4-Chlorophenyl-phenylether	9.92	204	678831	19.775ug/ml	90
56)	Fluorene	9.90	166	1344930	20.433ug/ml	99
58)	4-Nitroaniline	9.94	138	295462	21.923ug/ml	88
60)	4,6-Dinitro-2-methylphenol	10.00	198	247602	18.051ug/ml	93
62)	N-Nitrosodiphenylamine	10.12	169	896244	19.335ug/ml	96
63)	4-Bromophenyl-phenyl ether	10.79	248	416397	19.281ug/ml	87
64)	Hexachlorobenzene	10.88	284	440001	18.816ug/ml	85
65)	Atrazine	11.12	200	381101	19.584ug/ml	98
66)	Pentachlorophenol	11.25	266	251598	19.270ug/ml	98
67)	Phenanthrene	11.62	178	1967461	19.847ug/ml	99
68)	Anthracene	11.72	178	2052094	19.904ug/ml	99
70)	Carbazole	12.03	167	1658673	21.039ug/mL	96
71)	Di-n-butylphthalate	12.73	149	2276272	19.917ug/ml	99
72)	Fluoranthene	13.76	202	2395558	20.479ug/ml	89
74)	Pyrene	14.12	202	2567997	20.819ug/ml	87
76)	Butylbenzylphthalate	15.07	149	1211801	23.358ug/ml	88
77)	3,3'-Dichlorobenzidine	15.72	252	853053	20.788ug/ml	96
78)	Benzo(a)anthracene	15.75	228	2615078	20.397ug/ml	96
79)	Chrysene	15.80	228	2296481	21.142ug/ml	97
80)	Bis-(2-ethylhexyl)phthalat	15.81	149	1678399	21.600ug/ml	99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

01087

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\23JUN15\DEM03S20.D Vial: 1
Acq On : 06/23/2015 09:28 Operator: DJC
Sample : SSTD020M1 28463 DFTPPM1 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 23 09:54:33 2015 Results File: DSOM01D6.RES

Method : C:\msdchem\1\methods\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 24 09:33:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.74	149	2792973	20.779ug/ml	100
83) Benzo(b)fluoranthene	17.40	252	2374992	19.436ug/ml	93
84) Benzo(k)fluoranthene	17.45	252	2352813	20.236ug/ml	93
85) Benzo(a)pyrene	18.03	252	2298185	19.539ug/ml	92
87) Indeno(1,2,3-c,d)pyrene	20.83	276	1970897	17.936ug/ml	77
88) Dibenzo(a,h)anthracene	20.91	278	2054891	18.223ug/ml	90
89) Benzo(g,h,i)perylene	21.66	276	1856815	16.911ug/ml	86

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 81088

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-G Calibration Date: 06/23/2015 Time: 17:03

Lab File ID: GCB01S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020GB Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	1.183	0.979	0.010	-17.3	40.0
Phenol	1.871	1.764	0.800	-5.7	25.0
Bis(2-chloroethyl)ether	1.549	1.579	0.700	1.9	25.0
2-Chlorophenol	1.382	1.336	0.800	-3.3	25.0
2-Methylphenol	1.274	1.403	0.700	10.2	25.0
2,2'-Oxybis(1-chloropropane)	3.802	3.705	0.010	-2.5	40.0
Acetophenone	1.916	1.928	0.010	0.7	40.0
4-Methylphenol	1.399	1.368	0.600	-2.2	25.0
N-Nitroso-di-n-propylamine	1.047	1.027	0.500	-1.9	25.0
Hexachloroethane	0.701	0.698	0.300	-0.5	25.0
Nitrobenzene	0.462	0.451	0.200	-2.3	25.0
Isophorone	0.795	0.778	0.400	-2.2	25.0
2-Nitrophenol	0.207	0.199	0.100	-3.7	25.0
2,4-Dimethylphenol	0.392	0.365	0.200	-7.1	25.0
Bis(2-chloroethoxy)methane	0.482	0.487	0.300	1.0	25.0
2,4-Dichlorophenol	0.309	0.299	0.200	-3.1	25.0
Naphthalene	1.011	0.993	0.700	-1.8	25.0
4-Chloroaniline	0.351	0.337	0.010	-4.1	40.0
Hexachlorobutadiene	0.212	0.210	0.010	-0.9	40.0
Caprolactam	0.113	0.115	0.010	2.0	40.0
4-Chloro-3-methylphenol	0.341	0.329	0.200	-3.5	25.0
2-Methylnaphthalene	0.640	0.657	0.400	2.6	25.0
Hexachlorocyclopentadiene	0.412	0.426	0.010	3.4	40.0
2,4,6-Trichlorophenol	0.418	0.410	0.200	-1.9	25.0
2,4,5-Trichlorophenol	0.410	0.432	0.200	5.3	25.0
1,1'-Biphenyl	1.362	1.460	0.010	7.2	40.0
2-Chloronaphthalene	1.168	1.162	0.800	-0.5	25.0
2-Nitroaniline	0.478	0.489	0.010	2.4	40.0
Dimethylphthalate	1.309	1.342	0.010	2.5	40.0
2,6-Dinitrotoluene	0.297	0.302	0.200	1.6	25.0
Acenaphthylene	1.810	1.851	0.900	2.2	25.0
3-Nitroaniline	0.217	0.281	0.010	29.3	40.0
Acenaphthene	1.097	1.106	0.900	0.8	25.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-G Calibration Date: 06/23/2015 Time: 17:03

Lab File ID: GCB01S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020GB Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.200	0.188	0.010	-6.0	40.0
4-Nitrophenol	0.198	0.196	0.010	-1.3	40.0
Dibenzofuran	1.444	1.465	0.800	1.4	25.0
2,4-Dinitrotoluene	0.395	0.394	0.200	-0.1	25.0
Diethylphthalate	1.358	1.360	0.010	0.2	40.0
Fluorene	1.203	1.229	0.900	2.1	25.0
4-Chlorophenyl-phenylether	0.607	0.617	0.400	1.6	25.0
4-Nitroaniline	0.256	0.277	0.010	8.0	40.0
4,6-Dinitro-2-methylphenol	0.165	0.159	0.010	-3.7	40.0
N-Nitrosodiphenylamine (1)	0.565	0.588	0.010	3.9	40.0
1,2,4,5-Tetrachlorobenzene	0.557	0.568	0.010	2.0	40.0
4-Bromophenyl-phenylether	0.214	0.211	0.100	-1.5	25.0
Hexachlorobenzene	0.227	0.218	0.100	-3.9	25.0
Atrazine	0.205	0.182	0.010	-11.4	40.0
Pentachlorophenol	0.141	0.133	0.050	-5.7	25.0
Phenanthrene	1.067	1.091	0.700	2.3	25.0
Anthracene	1.089	1.106	0.700	1.6	25.0
Carbazole	0.746	0.925	0.010	24.0	40.0
Di-n-butylphthalate	1.476	1.522	0.010	3.1	40.0
Fluoranthene	1.175	1.186	0.600	0.9	25.0
Pyrene	1.273	1.299	0.600	2.0	25.0
Butylbenzylphthalate	0.679	0.720	0.010	6.0	40.0
3,3'-Dichlorobenzidine	0.297	0.379	0.010	27.7	40.0
Benzo(a)anthracene	1.213	1.208	0.800	-0.4	25.0
Chrysene	1.096	1.100	0.700	0.4	25.0
Bis(2-ethylhexyl)phthalate	0.989	1.026	0.010	3.8	40.0
Di-n-octylphthalate	1.988	2.077	0.010	4.5	40.0
Benzo(b)fluoranthene	1.253	1.252	0.700	0.0	25.0
Benzo(k)fluoranthene	1.183	1.197	0.700	1.2	25.0
Benzo(a)pyrene	1.179	1.180	0.700	0.1	25.0
Indeno(1,2,3-cd)pyrene	1.042	1.068	0.500	2.5	25.0
Dibenzo(a,h)anthracene	1.043	1.084	0.400	4.0	25.0
Benzo(g,h,i)perylene	1.026	1.078	0.500	5.1	25.0
2,3,4,6-Tetrachlorophenol	0.332	0.323	0.100	-2.9	25.0

(1) Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-G Calibration Date: 06/23/2015 Time: 17:03

Lab File ID: GCB01S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020GB Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

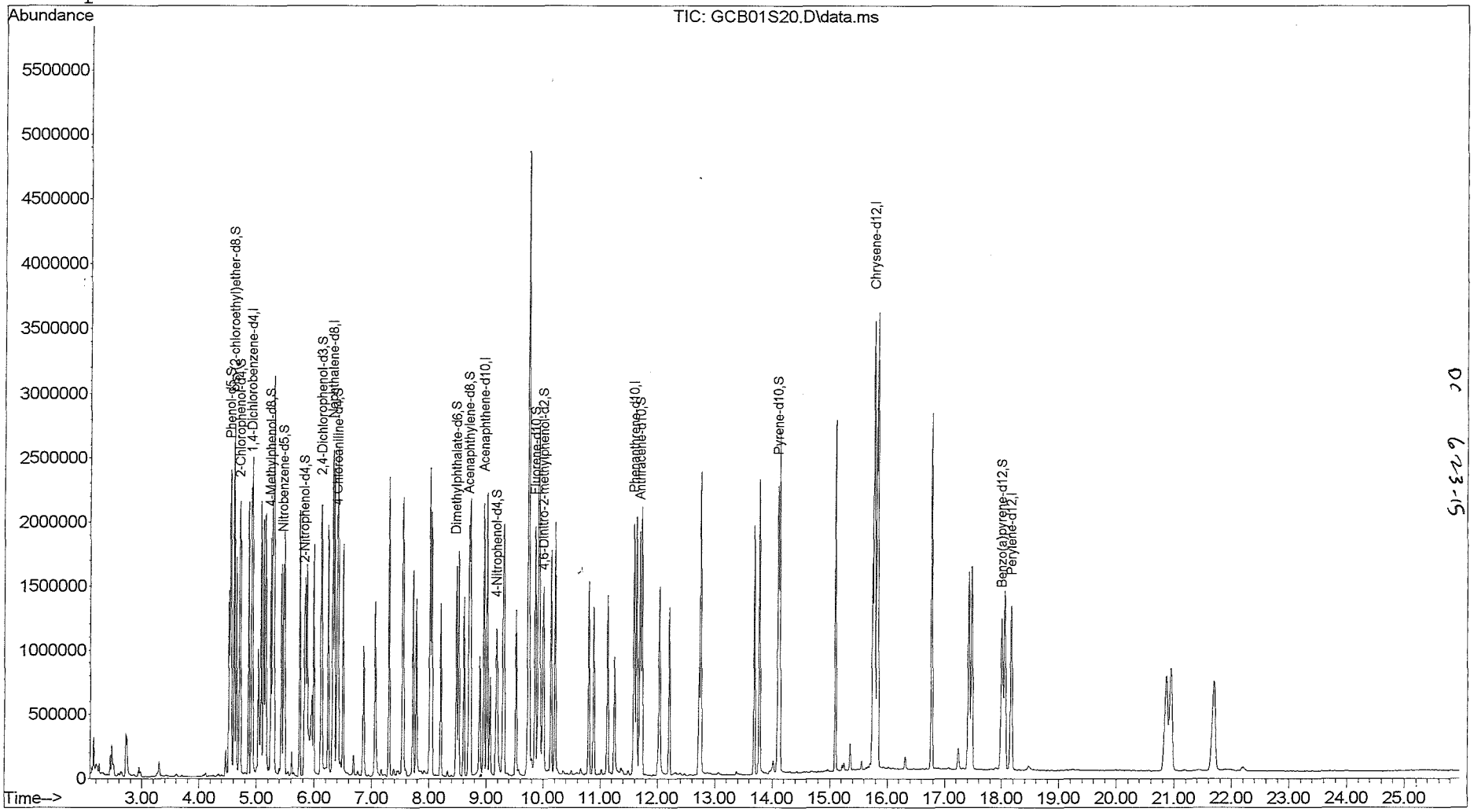
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.740	1.767	0.010	1.5	25.0
Bis(2-chloroethyl)ether-d8	1.356	1.340	0.010	-1.2	25.0
2-Chlorophenol-d4	1.470	1.507	0.010	2.5	25.0
4-Methylphenol-d8	1.164	1.222	0.010	4.9	25.0
Nitrobenzene-d5	0.176	0.180	0.010	2.2	25.0
2-Nitrophenol-d4	0.186	0.192	0.010	3.2	25.0
2,4-Dichlorophenol-d3	0.289	0.301	0.010	4.0	25.0
4-Chloroaniline-d4	0.316	0.306	0.010	-3.1	40.0
Dimethylphthalate-d6	1.254	1.290	0.010	2.8	40.0
Acenaphthylene-d8	1.704	1.767	0.010	3.7	25.0
4-Nitrophenol-d4	0.256	0.259	0.010	1.1	40.0
Fluorene-d10	1.071	1.106	0.010	3.3	25.0
4,6-Dinitro-2-methylphenol-d2	0.142	0.144	0.010	1.3	40.0
Anthracene-d10	1.061	1.077	0.010	1.6	25.0
Pyrene-d10	0.998	1.020	0.010	2.2	25.0
Benzo(a)pyrene-d12	0.958	0.970	0.010	1.2	25.0

Quantitation Report

Data File : C:\msdchem\1\data\20...\23JUN15PM\GCB01S20.D Vial: 1
Acq On : 06/23/2015 17:03 Operator: TJM
Sample : SSTD020GB DFTPPB1 28435 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 23 17:29:57 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 23 17:33:35 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...\23JUN15PM\GCB01S20.D Vial: 1
Acq On : 06/23/2015 17:03 Operator: TJM
Sample : SSTD020GB DFTPPB1 28435 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 23 17:29:57 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 23 17:33:35 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.91	152	331478	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1224327	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	678226	20.00 ug/ml
59) Phenanthrene-d10	11.59	188	1103457	20.00 ug/ml
73) Chrysene-d12	15.78	240	1047227	20.00 ug/ml
81) Perylene-d12	18.17	264	924199	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.54	99	585766	20.307ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	444156	19.758ug/mL
7) 2-Chlorophenol-d4	4.70	132	499440	20.506ug/ml
13) 4-Methylphenol-d8	5.25	113	404911	20.987ug/mL
17) Nitrobenzene-d5	5.46	128	219850	20.441ug/ml
21) 2-Nitrophenol-d4	5.83	143	234641	20.640ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	368053	20.792ug/mL
28) 4-Chloroaniline-d4	6.39	131	374420	19.377ug/mL
42) Dimethylphthalate-d6	8.47	166	874666	20.566ug/mL
45) Acenaphthylene-d8	8.70	160	1198683	20.740ug/mL
50) 4-Nitrophenol-d4	9.17	143	175445	20.222ug/mL
57) Fluorene-d10	9.86	176	750421	20.661ug/mL
61) 4,6-Dinitro-2-methylphenol	9.99	200	158741	20.268ug/mL
69) Anthracene-d10	11.69	188	1188671	20.313ug/mL
75) Pyrene-d10	14.10	212	1067882	20.433ug/mL
86) Benzo(a)pyrene-d12	18.00	264	896500	20.244ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.52	77	324471	16.543ug/ml 84
4) Phenol	4.55	94	584791	18.863ug/ml 82
5) Bis(2-chloroethyl)ether	4.65	93	523441	20.385ug/ml 91
8) 2-Chlorophenol	4.72	128	442995	19.338ug/ml 82
9) 2-Methylphenol	5.12	108	465013	22.031ug/ml 96
10) 2,2'-Oxybis-(1-chloropropa	5.16	45	1228164	19.493ug/ml 100
11) Acetophenone	5.30	105	639204	20.134ug/ml 77
12) 4-methylphenol	5.27	108	453438	19.558ug/ml 99
14) N-Nitroso-di-n-propylamine	5.29	70	340461	19.629ug/ml 73
15) Hexachloroethane	5.43	117	231344	19.905ug/ml 98
18) Nitrobenzene	5.49	77	552535	19.548ug/ml 86
19) Isophorone	5.75	82	952329	19.565ug/ml 90
20) 2-Nitrophenol	5.85	139	243503	19.261ug/ml 64
22) 2,4-Dimethylphenol	5.87	107	446319	18.590ug/ml 87
23) Bis(2-chloroethoxy)methane	5.99	93	595775	20.205ug/ml 97
24) 2,4-Dichlorophenol	6.13	162	366576	19.386ug/ml 97
26) Naphthalene	6.35	128	1215285	19.634ug/ml 99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

:01913

Quantitation Report

Data File : C:\msdchem\1\data\20...\23JUN15PM\GCB01S20.D Vial: 1
Acq On : 06/23/2015 17:03 Operator: TJM
Sample : SSTD020GB DFTPPB1 28435 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 23 17:29:57 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 23 17:33:35 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.40	127	412082	19.185ug/ml	88
29)	Hexachlorobutadiene	6.50	225	256843	19.828ug/ml	99
30)	Caprolactam	6.86	113	140684	20.398ug/ml	42
31)	4-Chloro-3-methylphenol	7.06	107	403046	19.293ug/ml	90
32)	2-Methylnaphthalene	7.30	142	804067	20.529ug/ml	98
34)	1,2,4,5-Tetrachlorobenzene	7.55	216	385259	20.395ug/mL	99
35)	Hexachlorocyclopentadiene	7.53	237	288671	20.680ug/ml	99
36)	2,4,6-Trichlorophenol	7.72	196	278331	19.615ug/ml	99
37)	2,4,5-Trichlorophenol	7.77	196	292822	21.066ug/ml	99
38)	1,1'-Biphenyl	8.02	154	990062	21.433ug/ml	99
39)	2-Chloronaphthalene	8.05	162	787911	19.895ug/ml	97
40)	2-Nitroaniline	8.20	65	331984	20.482ug/ml	77
41)	Dimethylphthalate	8.52	163	910299	20.501ug/ml	99
43)	2,6-Dinitrotoluene	8.61	165	204752	20.310ug/ml	90
44)	Acenaphthylene	8.72	152	1255130	20.450ug/ml	100
46)	3-Nitroaniline	8.89	138	190463	25.865ug/ml	82
47)	Acenaphthene	9.02	153	750194	20.168ug/ml	95
48)	2,4-Dinitrophenol	9.06	184	127434	18.795ug/ml	100
49)	4-Nitrophenol	9.19	109	132610	19.739ug/ml	77
51)	Dibenzofuran	9.31	168	993701	20.289ug/ml	95
52)	2,4-Dinitrotoluene	9.29	165	267550	19.984ug/ml	40
53)	2,3,4,6-Tetrachlorophenol	9.52	232	218766	19.414ug/mL	98
54)	Diethylphthalate	9.75	149	922624	20.033ug/ml	97
55)	4-Chlorophenyl-phenylether	9.92	204	418281	20.320ug/ml	98
56)	Fluorene	9.91	166	833546	20.429ug/ml	98
58)	4-Nitroaniline	9.94	138	187938	21.609ug/ml	90
60)	4,6-Dinitro-2-methylphenol	10.00	198	175512	19.257ug/ml	89
62)	N-Nitrosodiphenylamine	10.13	169	648338	20.781ug/ml	93
63)	4-Bromophenyl-phenyl ether	10.80	248	232334	19.696ug/ml	99
64)	Hexachlorobenzene	10.88	284	240748	19.212ug/ml	92
65)	Atrazine	11.13	200	200675	17.724ug/ml	98
66)	Pentachlorophenol	11.25	266	146406	18.852ug/ml	98
67)	Phenanthrene	11.63	178	1203990	20.457ug/ml	99
68)	Anthracene	11.73	178	1220216	20.316ug/ml	99
70)	Carbazole	12.03	167	1020355	24.799ug/mL	99
71)	Di-n-butylphthalate	12.75	149	1679490	20.622ug/ml	100
72)	Fluoranthene	13.77	202	1308262	20.173ug/ml	97
74)	Pyrene	14.13	202	1360029	20.402ug/ml	98
76)	Butylbenzylphthalate	15.10	149	753982	21.202ug/ml	92
77)	3,3'-Dichlorobenzidine	15.74	252	396989	25.541ug/ml	99
78)	Benzo(a)anthracene	15.77	228	1264915	19.910ug/ml	98
79)	Chrysene	15.82	228	1151539	20.072ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.83	149	1074879	20.755ug/ml	97

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...\23JUN15PM\GCB01S20.D Vial: 1
Acq On : 06/23/2015 17:03 Operator: TJM
Sample : SSTD020GB DFTPPB1 28435 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 23 17:29:57 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 23 17:33:35 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.77	149	1919266	20.896ug/ml	97
83) Benzo(b)fluoranthene	17.42	252	1157524	19.996ug/ml	97
84) Benzo(k)fluoranthene	17.47	252	1106176	20.232ug/ml	96
85) Benzo(a)pyrene	18.05	252	1090675	20.022ug/ml	96
87) Indeno(1,2,3-c,d)pyrene	20.86	276	986999	20.492ug/ml	93
88) Dibenzo(a,h)anthracene	20.94	278	1002156	20.792ug/ml	96
89) Benzo(g,h,i)perylene	21.69	276	996366	21.012ug/ml	95

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

:01015

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-G Calibration Date: 06/24/2015 Time: 03:26

Lab File ID: GCB20S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020B1 Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	1.183	0.943	0.010	-20.3	50.0
Phenol	1.871	1.853	0.010	-1.0	50.0
Bis(2-chloroethyl)ether	1.549	1.617	0.010	4.4	50.0
2-Chlorophenol	1.382	1.346	0.010	-2.6	50.0
2-Methylphenol	1.274	1.506	0.010	18.2	50.0
2,2'-Oxybis(1-chloropropane)	3.802	3.771	0.010	-0.8	50.0
Acetophenone	1.916	2.005	0.010	4.6	50.0
4-Methylphenol	1.399	1.420	0.010	1.5	50.0
N-Nitroso-di-n-propylamine	1.047	1.017	0.010	-2.8	50.0
Hexachloroethane	0.701	0.352	0.010	-49.8	50.0
Nitrobenzene	0.462	0.455	0.010	-1.5	50.0
Isophorone	0.795	0.802	0.010	0.9	50.0
2-Nitrophenol	0.207	0.180	0.010	-13.0	50.0
2,4-Dimethylphenol	0.392	0.379	0.010	-3.5	50.0
Bis(2-chloroethoxy)methane	0.482	0.488	0.010	1.4	50.0
2,4-Dichlorophenol	0.309	0.303	0.010	-1.8	50.0
Naphthalene	1.011	1.004	0.010	-0.7	50.0
4-Chloroaniline	0.351	0.391	0.010	11.5	50.0
Hexachlorobutadiene	0.212	0.204	0.010	-3.5	50.0
Caprolactam	0.113	0.121	0.010	7.3	50.0
4-Chloro-3-methylphenol	0.341	0.345	0.010	1.0	50.0
2-Methylnaphthalene	0.640	0.650	0.010	1.7	50.0
Hexachlorocyclopentadiene	0.412	0.029	0.010	-92.9	50.0
2,4,6-Trichlorophenol	0.418	0.397	0.010	-5.2	50.0
2,4,5-Trichlorophenol	0.410	0.427	0.010	4.2	50.0
1,1'-Biphenyl	1.362	1.373	0.010	0.8	50.0
2-Chloronaphthalene	1.168	1.148	0.010	-1.7	50.0
2-Nitroaniline	0.478	0.473	0.010	-1.1	50.0
Dimethylphthalate	1.309	1.332	0.010	1.7	50.0
2,6-Dinitrotoluene	0.297	0.293	0.010	-1.4	50.0
Acenaphthylene	1.810	1.814	0.010	0.2	50.0
3-Nitroaniline	0.217	0.330	0.010	51.8	50.0
Acenaphthene	1.097	1.102	0.010	0.5	50.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-G Calibration Date: 06/24/2015 Time: 03:26

Lab File ID: GCB20S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020B1 Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.200	0.034	0.010	-83.2	50.0
4-Nitrophenol	0.198	0.206	0.010	4.0	50.0
Dibenzofuran	1.444	1.486	0.010	2.9	50.0
2,4-Dinitrotoluene	0.395	0.393	0.010	-0.3	50.0
Diethylphthalate	1.358	1.407	0.010	3.6	50.0
Fluorene	1.203	1.233	0.010	2.5	50.0
4-Chlorophenyl-phenylether	0.607	0.619	0.010	1.9	50.0
4-Nitroaniline	0.256	0.326	0.010	27.1	50.0
4,6-Dinitro-2-methylphenol	0.165	0.038	0.010	-77.2	50.0
N-Nitrosodiphenylamine (1)	0.565	0.566	0.010	0.1	50.0
1,2,4,5-Tetrachlorobenzene	0.557	0.535	0.010	-4.0	50.0
4-Bromophenyl-phenylether	0.214	0.206	0.010	-3.6	50.0
Hexachlorobenzene	0.227	0.222	0.010	-2.1	50.0
Atrazine	0.205	0.159	0.010	-22.4	50.0
Pentachlorophenol	0.141	0.130	0.010	-7.7	50.0
Phenanthrene	1.067	1.075	0.010	0.8	50.0
Anthracene	1.089	1.104	0.010	1.4	50.0
Carbazole	0.746	0.919	0.010	23.3	50.0
Di-n-butylphthalate	1.476	1.527	0.010	3.4	50.0
Fluoranthene	1.175	1.229	0.010	4.6	50.0
Pyrene	1.273	1.423	0.010	11.8	50.0
Butylbenzylphthalate	0.679	0.780	0.010	14.9	50.0
3,3'-Dichlorobenzidine	0.297	0.418	0.010	40.9	50.0
Benzo(a)anthracene	1.213	1.231	0.010	1.5	50.0
Chrysene	1.096	1.091	0.010	-0.4	50.0
Bis(2-ethylhexyl)phthalate	0.989	1.154	0.010	16.7	50.0
Di-n-octylphthalate	1.988	4.055	0.010	104.0	50.0
Benzo(b)fluoranthene	1.253	1.548	0.010	23.5	50.0
Benzo(k)fluoranthene	1.183	1.501	0.010	26.8	50.0
Benzo(a)pyrene	1.179	1.201	0.010	1.9	50.0
Indeno(1,2,3-cd)pyrene	1.042	0.577	0.010	-44.6	50.0
Dibenzo(a,h)anthracene	1.043	0.628	0.010	-39.8	50.0
Benzo(g,h,i)perylene	1.026	0.480	0.010	-53.2	50.0
2,3,4,6-Tetrachlorophenol	0.332	0.321	0.010	-3.3	50.0

(1) Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-G Calibration Date: 06/24/2015 Time: 03:26

Lab File ID: GCB20S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020B1 Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

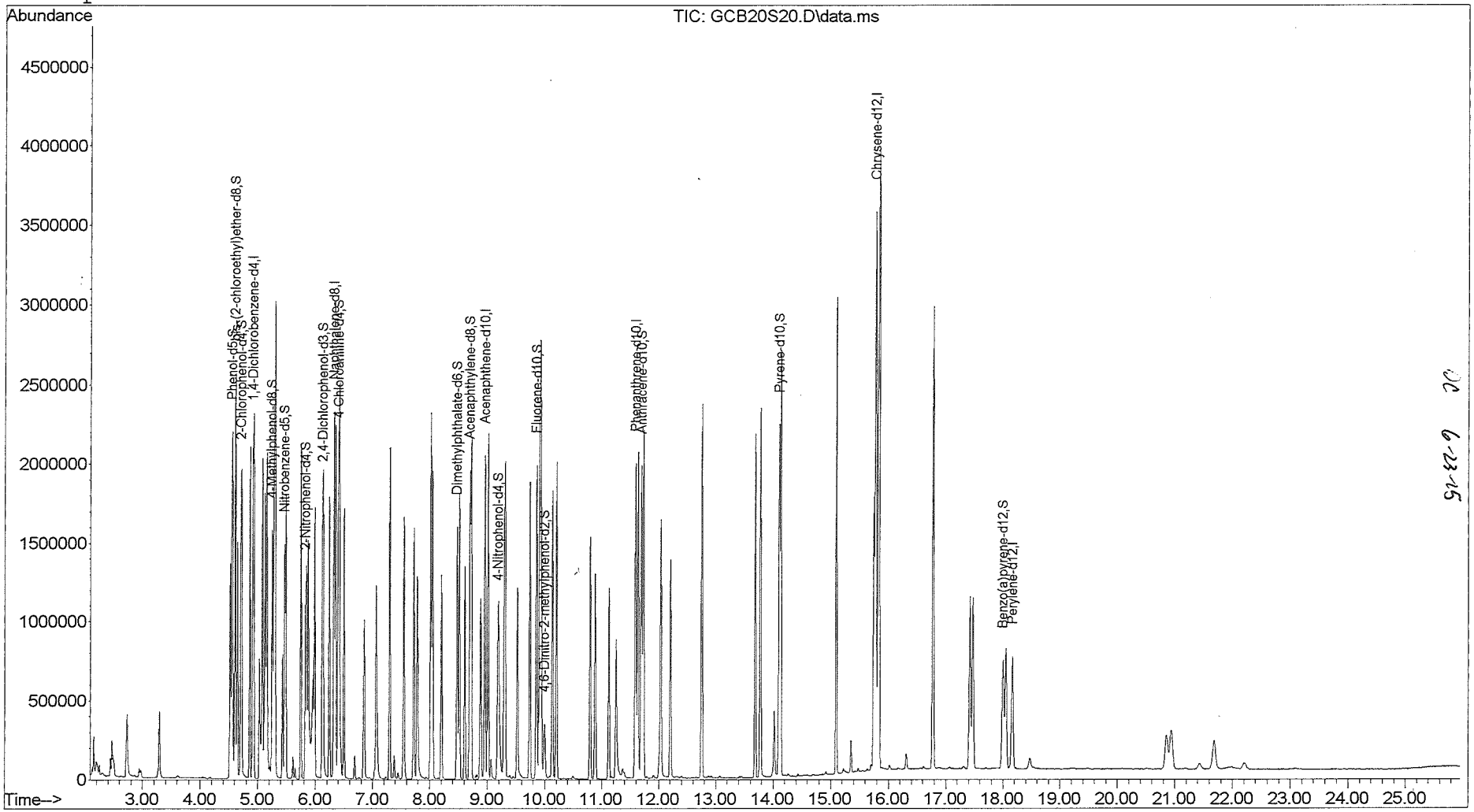
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.740	1.813	0.010	4.2	50.0
Bis(2-chloroethyl)ether-d8	1.356	1.373	0.010	1.2	50.0
2-Chlorophenol-d4	1.470	1.533	0.010	4.3	50.0
4-Methylphenol-d8	1.164	1.231	0.010	5.8	50.0
Nitrobenzene-d5	0.176	0.180	0.010	2.6	50.0
2-Nitrophenol-d4	0.186	0.176	0.010	-5.3	50.0
2,4-Dichlorophenol-d3	0.289	0.300	0.010	3.7	50.0
4-Chloroaniline-d4	0.316	0.380	0.010	20.3	50.0
Dimethylphthalate-d6	1.254	1.292	0.010	3.0	50.0
Acenaphthylene-d8	1.704	1.731	0.010	1.6	50.0
4-Nitrophenol-d4	0.256	0.268	0.010	4.8	50.0
Fluorene-d10	1.071	1.129	0.010	5.4	50.0
4,6-Dinitro-2-methylphenol-d2	0.142	0.035	0.010	-75.3	50.0
Anthracene-d10	1.061	1.074	0.010	1.3	50.0
Pyrene-d10	0.998	1.124	0.010	12.6	50.0
Benzo(a)pyrene-d12	0.958	1.001	0.010	4.5	50.0

Quantitation Report

Data File : C:\msdchem\1\data\20...\23JUN15PM\GCB20S20.D Vial: 1
Acq On : 06/24/2015 03:26 Operator: TJM
Sample : SSTD020GB DFTPPB1 28435 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 24 03:52:17 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 24 09:52:40 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...\23JUN15PM\GCB20S20.D Vial: 1
Acq On : 06/24/2015 03:26 Operator: TJM
Sample : SSTD020GB DFTPPB1 28435 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 24 03:52:17 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 24 09:52:40 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.92	152	307132	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1163786	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	678020	20.00 ug/ml
59) Phenanthrene-d10	11.59	188	1147391	20.00 ug/ml
73) Chrysene-d12	15.78	240	1024403	20.00 ug/ml
81) Perylene-d12	18.16	264	502168	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.55	99	556818	20.833ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	421746	20.248ug/mL
7) 2-Chlorophenol-d4	4.70	132	470852	20.865ug/ml
13) 4-Methylphenol-d8	5.25	113	378126	21.152ug/mL
17) Nitrobenzene-d5	5.47	128	209724	20.514ug/ml
21) 2-Nitrophenol-d4	5.83	143	204756	18.948ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	349022	20.742ug/mL
28) 4-Chloroaniline-d4	6.39	131	441993	24.064ug/mL
42) Dimethylphthalate-d6	8.47	166	875823	20.600ug/mL
45) Acenaphthylene-d8	8.70	160	1173638	20.313ug/mL
50) 4-Nitrophenol-d4	9.18	143	181822	20.963ug/mL
57) Fluorene-d10	9.86	176	765286	21.077ug/mL
61) 4,6-Dinitro-2-methylphenol	9.99	200	40240	4.941ug/mL
69) Anthracene-d10	11.69	188	1232214	20.251ug/mL
75) Pyrene-d10	14.10	212	1151686	22.528ug/mL
86) Benzo(a)pyrene-d12	18.00	264	502857	20.898ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.52	77	289563	15.933ug/ml 88
4) Phenol	4.56	94	569050	19.810ug/ml 83
5) Bis(2-chloroethyl)ether	4.65	93	496724	20.878ug/ml 90
8) 2-Chlorophenol	4.72	128	413292	19.471ug/ml 82
9) 2-Methylphenol	5.12	108	462494	23.648ug/ml 99
10) 2,2'-Oxybis-(1-chloropropa	5.16	45	1158346	19.842ug/ml 100
11) Acetophenone	5.30	105	615670	20.930ug/ml 48
12) 4-methylphenol	5.27	108	436140	20.303ug/ml 99
14) N-Nitroso-di-n-propylamine	5.29	70	312335	19.435ug/ml 73
15) Hexachloroethane	5.43	117	108210	10.048ug/ml 97
18) Nitrobenzene	5.49	77	529104	19.693ug/ml 86
19) Isophorone	5.75	82	933459	20.175ug/ml 90
20) 2-Nitrophenol	5.85	139	209116	17.402ug/ml 77
22) 2,4-Dimethylphenol	5.87	107	440540	19.304ug/ml 81
23) Bis(2-chloroethoxy)methane	5.99	93	568126	20.270ug/ml 100
24) 2,4-Dichlorophenol	6.13	162	353015	19.640ug/ml 97
26) Naphthalene	6.35	128	1168384	19.859ug/ml 99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

:01020

Quantitation Report

Data File : C:\msdchem\1\data\20...\23JUN15PM\GCB20S20.D Vial: 1
Acq On : 06/24/2015 03:26 Operator: TJM
Sample : SSTD020GB DFTPPB1 28435 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 24 03:52:17 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 24 09:52:40 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.40	127	455103	22.290ug/ml	90
29)	Hexachlorobutadiene	6.50	225	237636	19.300ug/ml	99
30)	Caprolactam	6.86	113	140721	21.465ug/ml	42
31)	4-Chloro-3-methylphenol	7.06	107	400967	20.191ug/ml	91
32)	2-Methylnaphthalene	7.30	142	756946	20.331ug/ml	97
34)	1,2,4,5-Tetrachlorobenzene	7.55	216	362633	19.203ug/mL	99
35)	Hexachlorocyclopentadiene	7.53	237	19771	1.417ug/ml	99
36)	2,4,6-Trichlorophenol	7.72	196	269059	18.967ug/ml	99
37)	2,4,5-Trichlorophenol	7.78	196	289627	20.842ug/ml	99
38)	1,1'-Biphenyl	8.02	154	931119	20.163ug/ml	98
39)	2-Chloronaphthalene	8.05	162	778450	19.662ug/ml	96
40)	2-Nitroaniline	8.20	65	320523	19.781ug/ml	80
41)	Dimethylphthalate	8.52	163	903208	20.348ug/ml	99
43)	2,6-Dinitrotoluene	8.61	165	198669	19.713ug/ml	92
44)	Acenaphthylene	8.72	152	1229640	20.041ug/ml	99
46)	3-Nitroaniline	8.89	138	223476	30.357ug/ml	84
47)	Acenaphthene	9.02	153	747511	20.102ug/ml	94
48)	2,4-Dinitrophenol	9.07	184	22841	3.370ug/ml	100
49)	4-Nitrophenol	9.20	109	139703	20.801ug/ml	80
51)	Dibenzofuran	9.31	168	1007256	20.572ug/ml	96
52)	2,4-Dinitrotoluene	9.29	165	266790	19.934ug/ml	44
53)	2,3,4,6-Tetrachlorophenol	9.53	232	217892	19.342ug/mL	97
54)	Diethylphthalate	9.74	149	953780	20.716ug/ml	96
55)	4-Chlorophenyl-phenylether	9.92	204	419520	20.387ug/ml	99
56)	Fluorene	9.91	166	836017	20.496ug/ml	98
58)	4-Nitroaniline	9.94	138	220981	25.416ug/ml	90
60)	4,6-Dinitro-2-methylphenol	10.00	198	43145	4.552ug/ml	48
62)	N-Nitrosodiphenylamine	10.13	169	649565	20.023ug/ml	94
63)	4-Bromophenyl-phenyl ether	10.80	248	236569	19.287ug/ml	99
64)	Hexachlorobenzene	10.89	284	255035	19.573ug/ml	90
65)	Atrazine	11.13	200	182623	15.512ug/ml	97
66)	Pentachlorophenol	11.25	266	149019	18.453ug/ml	98
67)	Phenanthrene	11.63	178	1233238	20.152ug/ml	99
68)	Anthracene	11.73	178	1266601	20.280ug/ml	99
70)	Carbazole	12.03	167	1054768	24.654ug/mL	99
71)	Di-n-butylphthalate	12.75	149	1751792	20.686ug/ml	100
72)	Fluoranthene	13.78	202	1410319	20.914ug/ml	97
74)	Pyrene	14.13	202	1458171	22.362ug/ml	98
76)	Butylbenzylphthalate	15.10	149	799508	22.983ug/ml	90
77)	3,3'-Dichlorobenzidine	15.74	252	428526	28.184ug/ml	98
78)	Benzo(a)anthracene	15.77	228	1261099	20.292ug/ml	99
79)	Chrysene	15.82	228	1117685	19.916ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.84	149	1182027	23.333ug/ml	98

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 01021

Quantitation Report

Data File : C:\msdchem\1\data\20...\23JUN15PM\GCB20S20.D Vial: 1
Acq On : 06/24/2015 03:26 Operator: TJM
Sample : SSTD020GB DFTPPB1 28435 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 24 03:52:17 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 24 09:52:40 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.77	149	2036420	40.805ug/ml	97
83) Benzo(b)fluoranthene	17.42	252	777200	24.710ug/ml	96
84) Benzo(k)fluoranthene	17.47	252	753604	25.368ug/ml	97
85) Benzo(a)pyrene	18.05	252	603313	20.383ug/ml	96
87) Indeno(1,2,3-c,d)pyrene	20.86	276	289971	11.080ug/ml	92
88) Dibenzo(a,h)anthracene	20.93	278	315262	12.038ug/ml	97
89) Benzo(g,h,i)perylene	21.69	276	240998	9.353ug/ml	96

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 01022

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-G Calibration Date: 06/24/2015 Time: 08:34

Lab File ID: GCC04S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020GC Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	1.183	0.951	0.010	-19.7	40.0
Phenol	1.871	1.915	0.800	2.4	25.0
Bis(2-chloroethyl)ether	1.549	1.538	0.700	-0.8	25.0
2-Chlorophenol	1.382	1.416	0.800	2.4	25.0
2-Methylphenol	1.274	1.559	0.700	22.4	25.0
2,2'-Oxybis(1-chloropropane)	3.802	3.679	0.010	-3.2	40.0
Acetophenone	1.916	2.022	0.010	5.6	40.0
4-Methylphenol	1.399	1.466	0.600	4.8	25.0
N-Nitroso-di-n-propylamine	1.047	1.049	0.500	0.3	25.0
Hexachloroethane	0.701	0.712	0.300	1.5	25.0
Nitrobenzene	0.462	0.468	0.200	1.4	25.0
Isophorone	0.795	0.812	0.400	2.1	25.0
2-Nitrophenol	0.207	0.210	0.100	1.9	25.0
2,4-Dimethylphenol	0.392	0.403	0.200	2.7	25.0
Bis(2-chloroethoxy)methane	0.482	0.479	0.300	-0.5	25.0
2,4-Dichlorophenol	0.309	0.322	0.200	4.3	25.0
Naphthalene	1.011	1.049	0.700	3.8	25.0
4-Chloroaniline	0.351	0.371	0.010	5.8	40.0
Hexachlorobutadiene	0.212	0.209	0.010	-1.3	40.0
Caprolactam	0.113	0.119	0.010	5.6	40.0
4-Chloro-3-methylphenol	0.341	0.357	0.200	4.6	25.0
2-Methylnaphthalene	0.640	0.677	0.400	5.8	25.0
Hexachlorocyclopentadiene	0.412	0.405	0.010	-1.5	40.0
2,4,6-Trichlorophenol	0.418	0.419	0.200	0.2	25.0
2,4,5-Trichlorophenol	0.410	0.433	0.200	5.6	25.0
1,1'-Biphenyl	1.362	1.442	0.010	5.8	40.0
2-Chloronaphthalene	1.168	1.167	0.800	-0.1	25.0
2-Nitroaniline	0.478	0.499	0.010	4.5	40.0
Dimethylphthalate	1.309	1.310	0.010	0.1	40.0
2,6-Dinitrotoluene	0.297	0.308	0.200	3.7	25.0
Acenaphthylene	1.810	1.892	0.900	4.6	25.0
3-Nitroaniline	0.217	0.279	0.010	28.3	40.0
Acenaphthene	1.097	1.142	0.900	4.1	25.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-G Calibration Date: 06/24/2015 Time: 08:34

Lab File ID: GCC04S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020GC Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.200	0.210	0.010	5.1	40.0
4-Nitrophenol	0.198	0.209	0.010	5.7	40.0
Dibenzofuran	1.444	1.512	0.800	4.7	25.0
2,4-Dinitrotoluene	0.395	0.416	0.200	5.3	25.0
Diethylphthalate	1.358	1.303	0.010	-4.1	40.0
Fluorene	1.203	1.252	0.900	4.1	25.0
4-Chlorophenyl-phenylether	0.607	0.584	0.400	-3.8	25.0
4-Nitroaniline	0.256	0.273	0.010	6.5	40.0
4,6-Dinitro-2-methylphenol	0.165	0.163	0.010	-1.1	40.0
N-Nitrosodiphenylamine (1)	0.565	0.565	0.010	-0.2	40.0
1,2,4,5-Tetrachlorobenzene	0.557	0.557	0.010	0.1	40.0
4-Bromophenyl-phenylether	0.214	0.200	0.100	-6.6	25.0
Hexachlorobenzene	0.227	0.218	0.100	-4.0	25.0
Atrazine	0.205	0.213	0.010	3.9	40.0
Pentachlorophenol	0.141	0.127	0.050	-9.7	25.0
Phenanthrene	1.067	1.093	0.700	2.5	25.0
Anthracene	1.089	1.129	0.700	3.7	25.0
Carbazole	0.746	0.938	0.010	25.7	40.0
Di-n-butylphthalate	1.476	1.481	0.010	0.4	40.0
Fluoranthene	1.175	1.208	0.600	2.8	25.0
Pyrene	1.273	1.320	0.600	3.6	25.0
Butylbenzylphthalate	0.679	0.688	0.010	1.2	40.0
3,3'-Dichlorobenzidine	0.297	0.389	0.010	31.0	40.0
Benzo(a)anthracene	1.213	1.228	0.800	1.2	25.0
Chrysene	1.096	1.134	0.700	3.5	25.0
Bis(2-ethylhexyl)phthalate	0.989	1.031	0.010	4.3	40.0
Di-n-octylphthalate	1.988	2.012	0.010	1.2	40.0
Benzo(b)fluoranthene	1.253	1.295	0.700	3.4	25.0
Benzo(k)fluoranthene	1.183	1.179	0.700	-0.3	25.0
Benzo(a)pyrene	1.179	1.217	0.700	3.3	25.0
Indeno(1,2,3-cd)pyrene	1.042	1.130	0.500	8.4	25.0
Dibenzo(a,h)anthracene	1.043	1.126	0.400	8.0	25.0
Benzo(g,h,i)perylene	1.026	1.105	0.500	7.7	25.0
2,3,4,6-Tetrachlorophenol	0.332	0.324	0.100	-2.4	25.0

(1) Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-G Calibration Date: 06/24/2015 Time: 08:34

Lab File ID: GCC04S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020GC Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

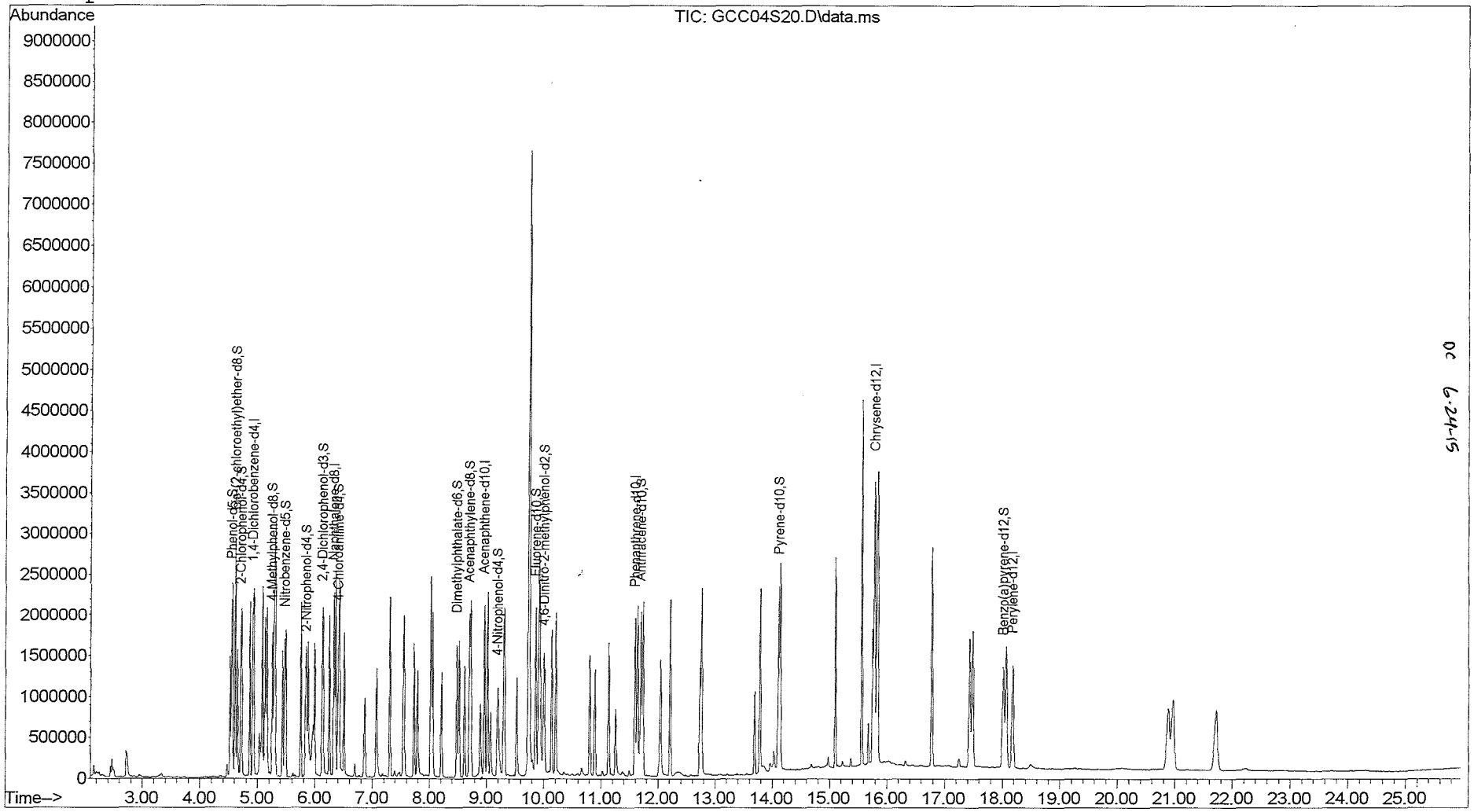
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.740	1.833	0.010	5.3	25.0
Bis(2-chloroethyl)ether-d8	1.356	1.406	0.010	3.7	25.0
2-Chlorophenol-d4	1.470	1.547	0.010	5.3	25.0
4-Methylphenol-d8	1.164	1.293	0.010	11.0	25.0
Nitrobenzene-d5	0.176	0.185	0.010	5.5	25.0
2-Nitrophenol-d4	0.186	0.197	0.010	6.1	25.0
2,4-Dichlorophenol-d3	0.289	0.308	0.010	6.4	25.0
4-Chloroaniline-d4	0.316	0.319	0.010	1.1	40.0
Dimethylphthalate-d6	1.254	1.312	0.010	4.6	40.0
Acenaphthylene-d8	1.704	1.800	0.010	5.6	25.0
4-Nitrophenol-d4	0.256	0.265	0.010	3.6	40.0
Fluorene-d10	1.071	1.123	0.010	4.9	25.0
4,6-Dinitro-2-methylphenol-d2	0.142	0.147	0.010	3.7	40.0
Anthracene-d10	1.061	1.106	0.010	4.2	25.0
Pyrene-d10	0.998	1.045	0.010	4.7	25.0
Benzo(a)pyrene-d12	0.958	0.997	0.010	4.0	25.0

Quantitation Report

Data File : C:\msdchem\1\data\20...15\24JUN15\GCC04S20.D Vial: 1
Acq On : 06/24/2015 08:34 Operator: SY
Sample : SSTD020GC DFTPPGC 28435 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 24 09:00:57 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 24 09:01:46 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...15\24JUN15\GCC04S20.D Vial: 1
Acq On : 06/24/2015 08:34 Operator: SY
Sample : SSTD020GC DFTPPGC 28435 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 24 09:00:57 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 24 09:01:46 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.92	152	307416	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1152874	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	659494	20.00 ug/ml
59) Phenanthrene-d10	11.60	188	1093625	20.00 ug/ml
73) Chrysene-d12	15.79	240	1032843	20.00 ug/ml
81) Perylene-d12	18.18	264	932181	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.55	99	563380	21.059ug/ml
6) bis-(2-chloroethyl)ether-d	4.61	67	432260	20.734ug/mL
7) 2-Chlorophenol-d4	4.70	132	475698	21.060ug/ml
13) 4-Methylphenol-d8	5.25	113	397339	22.206ug/mL
17) Nitrobenzene-d5	5.47	128	213738	21.104ug/ml
21) 2-Nitrophenol-d4	5.83	143	227068	21.211ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	354570	21.271ug/mL
28) 4-Chloroaniline-d4	6.40	131	367753	20.212ug/mL
42) Dimethylphthalate-d6	8.48	166	865196	20.921ug/mL
45) Acenaphthylene-d8	8.70	160	1186810	21.118ug/mL
50) 4-Nitrophenol-d4	9.19	143	174864	20.727ug/mL
57) Fluorene-d10	9.86	176	740730	20.974ug/mL
61) 4,6-Dinitro-2-methylphenol	10.00	200	160956	20.736ug/mL
69) Anthracene-d10	11.70	188	1209181	20.850ug/mL
75) Pyrene-d10	14.11	212	1079223	20.938ug/mL
86) Benzo(a)pyrene-d12	18.02	264	929201	20.802ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.52	77	292214	16.064ug/ml 87
4) Phenol	4.56	94	588722	20.476ug/ml 82
5) Bis(2-chloroethyl)ether	4.65	93	472703	19.850ug/ml 90
8) 2-Chlorophenol	4.72	128	435229	20.486ug/ml 83
9) 2-Methylphenol	5.13	108	479273	24.483ug/ml 95
10) 2,2'-Oxybis-(1-chloropropa	5.16	45	1130968	19.355ug/ml 100
11) Acetophenone	5.30	105	621693	21.115ug/ml 47
12) 4-methylphenol	5.28	108	450647	20.959ug/ml 98
14) N-Nitroso-di-n-propylamine	5.29	70	322585	20.054ug/ml 74
15) Hexachloroethane	5.43	117	218831	20.302ug/ml 100
18) Nitrobenzene	5.49	77	539868	20.284ug/ml 86
19) Isophorone	5.75	82	935936	20.420ug/ml 90
20) 2-Nitrophenol	5.85	139	242528	20.373ug/ml 78
22) 2,4-Dimethylphenol	5.87	107	464583	20.550ug/ml 85
23) Bis(2-chloroethoxy)methane	5.99	93	552426	19.896ug/ml 100
24) 2,4-Dichlorophenol	6.13	162	371422	20.859ug/ml 97
26) Naphthalene	6.35	128	1209648	20.755ug/ml 100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

21027

Quantitation Report

Data File : C:\msdchem\1\data\20...15\24JUN15\GCC04S20.D Vial: 1
Acq On : 06/24/2015 08:34 Operator: SY
Sample : SSTD020GC DFTPPGC 28435 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 24 09:00:57 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 24 09:01:46 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.41	127	427841	21.153ug/ml	90
29)	Hexachlorobutadiene	6.50	225	240838	19.745ug/ml	98
30)	Caprolactam	6.87	113	137116	21.113ug/ml	39
31)	4-Chloro-3-methylphenol	7.07	107	411665	20.926ug/ml	91
32)	2-Methylnaphthalene	7.30	142	780440	21.161ug/ml	98
34)	1,2,4,5-Tetrachlorobenzene	7.56	216	367663	20.016ug/mL	99
35)	Hexachlorocyclopentadiene	7.54	237	267345	19.696ug/ml	99
36)	2,4,6-Trichlorophenol	7.73	196	276399	20.032ug/ml	98
37)	2,4,5-Trichlorophenol	7.79	196	285551	21.126ug/ml	98
38)	1,1'-Biphenyl	8.02	154	950669	21.165ug/ml	99
39)	2-Chloronaphthalene	8.05	162	769749	19.989ug/ml	97
40)	2-Nitroaniline	8.21	65	329293	20.893ug/ml	77
41)	Dimethylphthalate	8.52	163	864106	20.014ug/ml	98
43)	2,6-Dinitrotoluene	8.62	165	203216	20.730ug/ml	90
44)	Acenaphthylene	8.73	152	1248067	20.912ug/ml	100
46)	3-Nitroaniline	8.89	138	183732	25.660ug/ml	83
47)	Acenaphthene	9.02	153	753191	20.824ug/ml	94
48)	2,4-Dinitrophenol	9.07	184	138625	21.027ug/ml	100
49)	4-Nitrophenol	9.20	109	138078	21.136ug/ml	78
51)	Dibenzofuran	9.32	168	997240	20.939ug/ml	96
52)	2,4-Dinitrotoluene	9.30	165	274291	21.070ug/ml	44
53)	2,3,4,6-Tetrachlorophenol	9.53	232	213918	19.523ug/mL	96
54)	Diethylphthalate	9.75	149	859196	19.186ug/ml	95
55)	4-Chlorophenyl-phenylether	9.93	204	385234	19.247ug/ml	98
56)	Fluorene	9.92	166	825968	20.818ug/ml	98
58)	4-Nitroaniline	9.95	138	180102	21.296ug/ml	88
60)	4,6-Dinitro-2-methylphenol	10.02	198	178588	19.770ug/ml	88
62)	N-Nitrosodiphenylamine	10.14	169	617459	19.969ug/ml	94
63)	4-Bromophenyl-phenyl ether	10.80	248	218451	18.685ug/ml	99
64)	Hexachlorobenzene	10.89	284	238550	19.207ug/ml	92
65)	Atrazine	11.13	200	233274	20.789ug/ml	98
66)	Pentachlorophenol	11.26	266	139055	18.066ug/ml	98
67)	Phenanthrene	11.64	178	1195616	20.498ug/ml	100
68)	Anthracene	11.73	178	1234336	20.735ug/ml	99
70)	Carbazole	12.04	167	1025416	25.146ug/mL	99
71)	Di-n-butylphthalate	12.76	149	1619985	20.070ug/ml	100
72)	Fluoranthene	13.79	202	1321090	20.554ug/ml	97
74)	Pyrene	14.14	202	1362862	20.729ug/ml	98
76)	Butylbenzylphthalate	15.10	149	710192	20.249ug/ml	91
77)	3,3'-Dichlorobenzidine	15.75	252	401704	26.204ug/ml	98
78)	Benzo(a)anthracene	15.77	228	1268382	20.243ug/ml	98
79)	Chrysene	15.82	228	1171719	20.708ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.84	149	1065020	20.851ug/ml	97

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

01029

Quantitation Report

Data File : C:\msdchem\1\data\20...15\24JUN15\GCC04S20.D Vial: 1
Acq On : 06/24/2015 08:34 Operator: SY
Sample : SSTD020GC DFTPPGC 28435 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 24 09:00:57 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 24 09:01:46 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82)	Di-n-octylphthalate	16.78	149	1875092	20.240ug/ml	96
83)	Benzo(b)fluoranthene	17.43	252	1207267	20.677ug/ml	96
84)	Benzo(k)fluoranthene	17.49	252	1099168	19.932ug/ml	97
85)	Benzo(a)pyrene	18.07	252	1134697	20.652ug/ml	96
87)	Indeno(1,2,3-c,d)pyrene	20.89	276	1053375	21.683ug/ml	92
88)	Dibenzo(a,h)anthracene	20.97	278	1050074	21.600ug/ml	96
89)	Benzo(g,h,i)perylene	21.73	276	1030244	21.540ug/ml	95

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

01029

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-G Calibration Date: 06/24/2015 Time: 13:00

Lab File ID: GCC12S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020C1 Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	1.183	0.919	0.010	-22.3	50.0
Phenol	1.871	1.912	0.010	2.2	50.0
Bis(2-chloroethyl)ether	1.549	1.467	0.010	-5.3	50.0
2-Chlorophenol	1.382	1.411	0.010	2.1	50.0
2-Methylphenol	1.274	1.508	0.010	18.4	50.0
2,2'-Oxybis(1-chloropropane)	3.802	3.675	0.010	-3.3	50.0
Acetophenone	1.916	2.026	0.010	5.8	50.0
4-Methylphenol	1.399	1.420	0.010	1.5	50.0
N-Nitroso-di-n-propylamine	1.047	1.019	0.010	-2.7	50.0
Hexachloroethane	0.701	0.427	0.010	-39.1	50.0
Nitrobenzene	0.462	0.460	0.010	-0.4	50.0
Isophorone	0.795	0.818	0.010	2.9	50.0
2-Nitrophenol	0.207	0.205	0.010	-0.8	50.0
2,4-Dimethylphenol	0.392	0.412	0.010	5.1	50.0
Bis(2-chloroethoxy)methane	0.482	0.488	0.010	1.4	50.0
2,4-Dichlorophenol	0.309	0.322	0.010	4.2	50.0
Naphthalene	1.011	1.062	0.010	5.0	50.0
4-Chloroaniline	0.351	0.394	0.010	12.3	50.0
Hexachlorobutadiene	0.212	0.214	0.010	1.0	50.0
Caprolactam	0.113	0.124	0.010	10.0	50.0
4-Chloro-3-methylphenol	0.341	0.361	0.010	5.9	50.0
2-Methylnaphthalene	0.640	0.682	0.010	6.5	50.0
Hexachlorocyclopentadiene	0.412	0.061	0.010	-85.2	50.0
2,4,6-Trichlorophenol	0.418	0.414	0.010	-1.1	50.0
2,4,5-Trichlorophenol	0.410	0.442	0.010	7.7	50.0
1,1'-Biphenyl	1.362	1.406	0.010	3.2	50.0
2-Chloronaphthalene	1.168	1.177	0.010	0.8	50.0
2-Nitroaniline	0.478	0.499	0.010	4.4	50.0
Dimethylphthalate	1.309	1.333	0.010	1.8	50.0
2,6-Dinitrotoluene	0.297	0.307	0.010	3.3	50.0
Acenaphthylene	1.810	1.853	0.010	2.4	50.0
3-Nitroaniline	0.217	0.333	0.010	53.4	50.0
Acenaphthene	1.097	1.124	0.010	2.5	50.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-G Calibration Date: 06/24/2015 Time: 13:00

Lab File ID: GCC12S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020C1 Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.200	0.091	0.010	-54.7	50.0
4-Nitrophenol	0.198	0.211	0.010	6.4	50.0
Dibenzofuran	1.444	1.533	0.010	6.2	50.0
2,4-Dinitrotoluene	0.395	0.419	0.010	6.0	50.0
Diethylphthalate	1.358	1.399	0.010	3.0	50.0
Fluorene	1.203	1.304	0.010	8.4	50.0
4-Chlorophenyl-phenylether	0.607	0.615	0.010	1.3	50.0
4-Nitroaniline	0.256	0.321	0.010	25.1	50.0
4,6-Dinitro-2-methylphenol	0.165	0.085	0.010	-48.8	50.0
N-Nitrosodiphenylamine (1)	0.565	0.573	0.010	1.3	50.0
1,2,4,5-Tetrachlorobenzene	0.557	0.545	0.010	-2.1	50.0
4-Bromophenyl-phenylether	0.214	0.204	0.010	-4.6	50.0
Hexachlorobenzene	0.227	0.226	0.010	-0.7	50.0
Atrazine	0.205	0.212	0.010	3.3	50.0
Pentachlorophenol	0.141	0.132	0.010	-6.5	50.0
Phenanthrene	1.067	1.115	0.010	4.5	50.0
Anthracene	1.089	1.148	0.010	5.5	50.0
Carbazole	0.746	0.943	0.010	26.5	50.0
Di-n-butylphthalate	1.476	1.500	0.010	1.6	50.0
Fluoranthene	1.175	1.247	0.010	6.1	50.0
Pyrene	1.273	1.364	0.010	7.2	50.0
Butylbenzylphthalate	0.679	0.713	0.010	5.0	50.0
3,3'-Dichlorobenzidine	0.297	0.396	0.010	33.3	50.0
Benzo(a)anthracene	1.213	1.245	0.010	2.6	50.0
Chrysene	1.096	1.110	0.010	1.3	50.0
Bis(2-ethylhexyl)phthalate	0.989	1.041	0.010	5.2	50.0
Di-n-octylphthalate	1.988	2.695	0.010	35.6	50.0
Benzo(b)fluoranthene	1.253	1.429	0.010	14.0	50.0
Benzo(k)fluoranthene	1.183	1.356	0.010	14.6	50.0
Benzo(a)pyrene	1.179	1.233	0.010	4.6	50.0
Indeno(1,2,3-cd)pyrene	1.042	0.671	0.010	-35.7	50.0
Dibenzo(a,h)anthracene	1.043	0.736	0.010	-29.4	50.0
Benzo(g,h,i)perylene	1.026	0.595	0.010	-42.0	50.0
2,3,4,6-Tetrachlorophenol	0.332	0.342	0.010	2.8	50.0

(1) Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-G Calibration Date: 06/24/2015 Time: 13:00

Lab File ID: GCC12S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020C1 Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

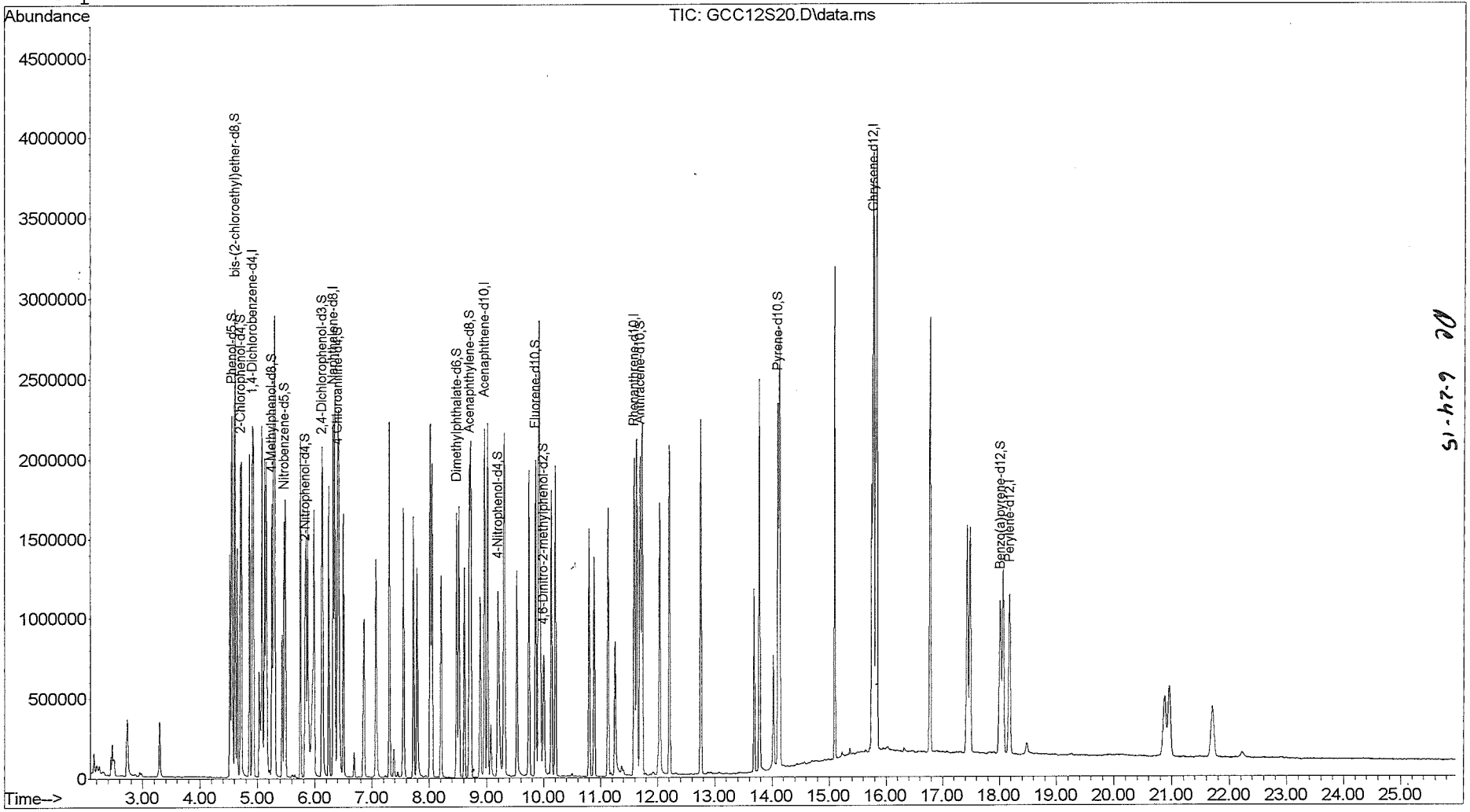
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.740	1.839	0.010	5.6	50.0
Bis(2-chloroethyl)ether-d8	1.356	1.390	0.010	2.4	50.0
2-Chlorophenol-d4	1.470	1.556	0.010	5.9	50.0
4-Methylphenol-d8	1.164	1.310	0.010	12.6	50.0
Nitrobenzene-d5	0.176	0.184	0.010	4.7	50.0
2-Nitrophenol-d4	0.186	0.194	0.010	4.5	50.0
2,4-Dichlorophenol-d3	0.289	0.307	0.010	6.1	50.0
4-Chloroaniline-d4	0.316	0.381	0.010	20.6	50.0
Dimethylphthalate-d6	1.254	1.302	0.010	3.8	50.0
Acenaphthylene-d8	1.704	1.771	0.010	3.9	50.0
4-Nitrophenol-d4	0.256	0.272	0.010	6.3	50.0
Fluorene-d10	1.071	1.154	0.010	7.7	50.0
4,6-Dinitro-2-methylphenol-d2	0.142	0.074	0.010	-47.9	50.0
Anthracene-d10	1.061	1.124	0.010	6.0	50.0
Pyrene-d10	0.998	1.072	0.010	7.4	50.0
Benzo(a)pyrene-d12	0.958	1.022	0.010	6.6	50.0

Quantitation Report

Data File : C:\msdchem\1\data\20...15\24JUN15\GCC12S20.D Vial: 1
Acq On : 06/24/2015 13:00 Operator: SY
Sample : SSTD020C1 DFTPPC1 28435 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 24 13:26:30 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 24 13:28:29 2015
Response via : Initial Calibration



51-47-2 20

GCC12S20.D

Quantitation Report

Data File : C:\msdchem\1\data\20...15\24JUN15\GCC12S20.D Vial: 1
Acq On : 06/24/2015 13:00 Operator: SY
Sample : SSTD020C1 DFTPPC1 28435 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 24 13:26:30 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 24 13:28:29 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.92	152	298263	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1126344	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	664968	20.00 ug/ml
59) Phenanthrene-d10	11.59	188	1130104	20.00 ug/ml
73) Chrysene-d12	15.79	240	1082072	20.00 ug/ml
81) Perylene-d12	18.17	264	727863	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.55	99	548421	21.129ug/ml
6) bis-(2-chloroethyl)ether-d	4.61	67	414439	20.489ug/mL
7) 2-Chlorophenol-d4	4.71	132	464028	21.174ug/ml
13) 4-Methylphenol-d8	5.25	113	390822	22.512ug/mL
17) Nitrobenzene-d5	5.47	128	207193	20.940ug/ml
21) 2-Nitrophenol-d4	5.83	143	218584	20.900ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	345433	21.211ug/mL
28) 4-Chloroaniline-d4	6.39	131	428716	24.117ug/mL
42) Dimethylphthalate-d6	8.48	166	866023	20.769ug/mL
45) Acenaphthylene-d8	8.70	160	1177902	20.787ug/mL
50) 4-Nitrophenol-d4	9.19	143	180918	21.268ug/mL
57) Fluorene-d10	9.86	176	767064	21.541ug/mL
61) 4,6-Dinitro-2-methylphenol	9.99	200	83628	10.426ug/mL
69) Anthracene-d10	11.70	188	1270122	21.193ug/mL
75) Pyrene-d10	14.10	212	1159466	21.471ug/mL
86) Benzo(a)pyrene-d12	18.01	264	743601	21.320ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.52	77	274097	15.531ug/ml 87
4) Phenol	4.56	94	570345	20.445ug/ml 82
5) Bis(2-chloroethyl)ether	4.65	93	437644	18.941ug/ml 87
8) 2-Chlorophenol	4.72	128	420722	20.411ug/ml 81
9) 2-Methylphenol	5.13	108	449851	23.686ug/ml 97
10) 2,2'-Oxybis-(1-chloropropa	5.16	45	1096161	19.335ug/ml 100
11) Acetophenone	5.30	105	604367	21.157ug/ml 47
12) 4-methylphenol	5.28	108	423617	20.307ug/ml 97
14) N-Nitroso-di-n-propylamine	5.29	70	303842	19.469ug/ml 73
15) Hexachloroethane	5.43	117	127302	12.173ug/ml 99
18) Nitrobenzene	5.49	77	517733	19.910ug/ml 86
19) Isophorone	5.75	82	921730	20.584ug/ml 90
20) 2-Nitrophenol	5.85	139	230858	19.850ug/ml 81
22) 2,4-Dimethylphenol	5.87	107	464323	21.022ug/ml 83
23) Bis(2-chloroethoxy)methane	5.99	93	549973	20.275ug/ml 98
24) 2,4-Dichlorophenol	6.13	162	362425	20.834ug/ml 97
26) Naphthalene	6.35	128	1195961	21.003ug/ml 98

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

01931

Quantitation Report

Data File : C:\msdchem\1\data\20...15\24JUN15\GCC12S20.D Vial: 1
Acq On : 06/24/2015 13:00 Operator: SY
Sample : SSTD020C1 DFTPPC1 28435 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 24 13:26:30 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 24 13:28:29 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.40	127	443708	22.455ug/ml	89
29)	Hexachlorobutadiene	6.50	225	240633	20.193ug/ml	99
30)	Caprolactam	6.86	113	139554	21.994ug/ml	38
31)	4-Chloro-3-methylphenol	7.07	107	406990	21.176ug/ml	92
32)	2-Methylnaphthalene	7.30	142	767795	21.308ug/ml	98
34)	1,2,4,5-Tetrachlorobenzene	7.55	216	362711	19.584ug/mL	98
35)	Hexachlorocyclopentadiene	7.54	237	40565	2.964ug/ml	99
36)	2,4,6-Trichlorophenol	7.73	196	275166	19.778ug/ml	99
37)	2,4,5-Trichlorophenol	7.79	196	293657	21.547ug/ml	99
38)	1,1'-Biphenyl	8.02	154	934769	20.640ug/ml	99
39)	2-Chloronaphthalene	8.05	162	782888	20.162ug/ml	96
40)	2-Nitroaniline	8.21	65	331901	20.885ug/ml	76
41)	Dimethylphthalate	8.52	163	886565	20.365ug/ml	99
43)	2,6-Dinitrotoluene	8.62	165	204155	20.655ug/ml	91
44)	Acenaphthylene	8.73	152	1232359	20.479ug/ml	99
46)	3-Nitroaniline	8.89	138	221505	30.680ug/ml	84
47)	Acenaphthene	9.02	153	747654	20.501ug/ml	95
48)	2,4-Dinitrophenol	9.07	184	60209	9.057ug/ml	100
49)	4-Nitrophenol	9.20	109	140225	21.288ug/ml	78
51)	Dibenzofuran	9.32	168	1019557	21.232ug/ml	97
52)	2,4-Dinitrotoluene	9.30	165	278296	21.201ug/ml	44
53)	2,3,4,6-Tetrachlorophenol	9.53	232	227116	20.557ug/mL	98
54)	Diethylphthalate	9.75	149	930272	20.602ug/ml	96
55)	4-Chlorophenyl-phenylether	9.93	204	408945	20.263ug/ml	100
56)	Fluorene	9.91	166	866941	21.671ug/ml	99
58)	4-Nitroaniline	9.95	138	213303	25.014ug/ml	89
60)	4,6-Dinitro-2-methylphenol	10.01	198	95497	10.231ug/ml	48
62)	N-Nitrosodiphenylamine	10.13	169	647294	20.259ug/ml	94
63)	4-Bromophenyl-phenyl ether	10.80	248	230609	19.089ug/ml	99
64)	Hexachlorobenzene	10.89	284	254851	19.858ug/ml	90
65)	Atrazine	11.13	200	239672	20.669ug/ml	98
66)	Pentachlorophenol	11.26	266	148712	18.697ug/ml	96
67)	Phenanthrene	11.64	178	1259560	20.897ug/ml	100
68)	Anthracene	11.73	178	1297407	21.091ug/ml	99
70)	Carbazole	12.04	167	1066111	25.300ug/mL	99
71)	Di-n-butylphthalate	12.76	149	1695208	20.324ug/ml	100
72)	Fluoranthene	13.78	202	1409087	21.215ug/ml	97
74)	Pyrene	14.13	202	1476168	21.431ug/ml	97
76)	Butylbenzylphthalate	15.10	149	771693	21.001ug/ml	92
77)	3,3'-Dichlorobenzidine	15.75	252	428082	26.654ug/ml	98
78)	Benzo(a)anthracene	15.77	228	1346896	20.518ug/ml	98
79)	Chrysene	15.82	228	1201320	20.265ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.84	149	1126217	21.046ug/ml	97

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\24JUN15\GCC12S20.D Vial: 1
Acq On : 06/24/2015 13:00 Operator: SY
Sample : SSTD020C1 DFTPPC1 28435 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 24 13:26:30 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 24 13:28:29 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82)	Di-n-octylphthalate	16.78	149	1961854	27.121ug/ml	97
83)	Benzo(b)fluoranthene	17.43	252	1039823	22.808ug/ml	97
84)	Benzo(k)fluoranthene	17.48	252	987114	22.925ug/ml	95
85)	Benzo(a)pyrene	18.06	252	897144	20.912ug/ml	96
87)	Indeno(1,2,3-c,d)pyrene	20.88	276	488173	12.870ug/ml	94
88)	Dibenzo(a,h)anthracene	20.96	278	535718	14.113ug/ml	97
89)	Benzo(g,h,i)perylene	21.70	276	433058	11.596ug/ml	96

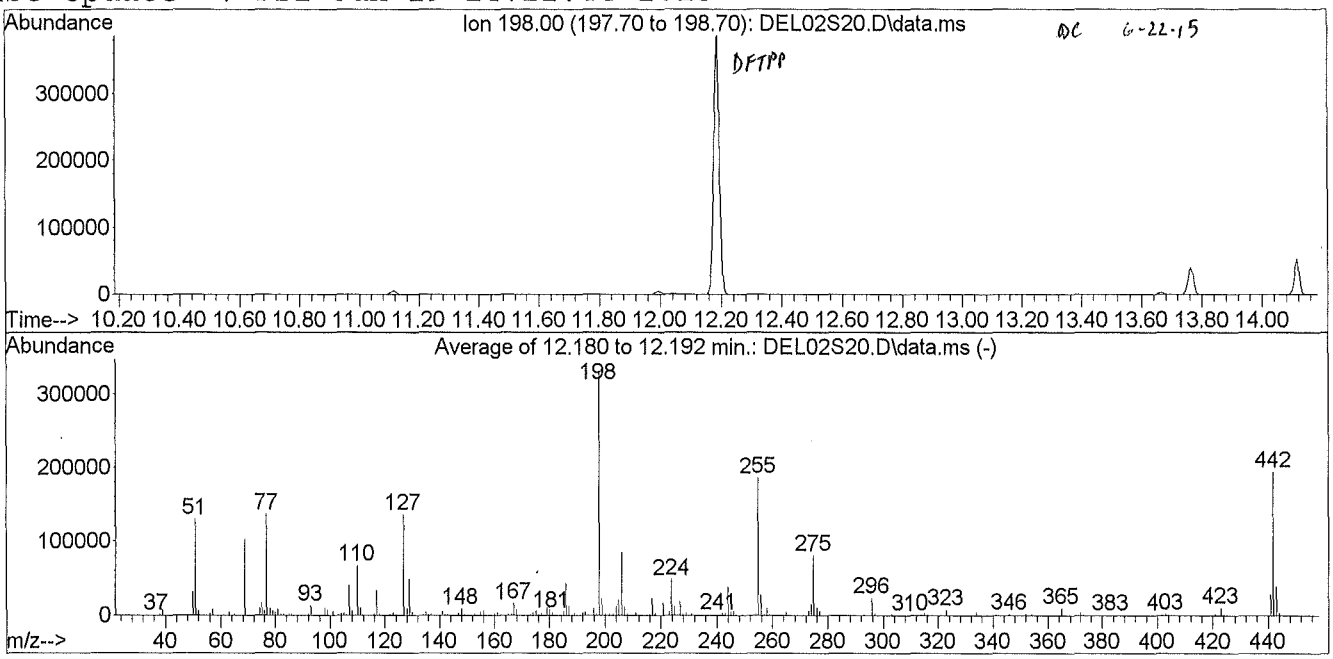
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

01036

Data Path : C:\msdchem\1\DATA\2015\JUN15\22JUN15\
Data File : DEL02S20.D
Acq On : 06/22/2015 13:05
Operator : DJC
Sample : SSTD020DL 28463 DFTPPDL
Inst : 5975-D
Misc : . X7-19-15
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\DSOM01D6.M
Title : EPA/CLP SOM01
Last Update : Fri Jun 19 14:22:44 2015



Average of scans 1716, 1717, 1718; Background corrected with scan 1769

Spectrum Information: Average of 12.180 to 12.192 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	39.0	129113	PASS
68	69	0.00	2	1.6	1649	PASS
69	198	0.00	100	31.0	102615	PASS
70	69	0.00	2	0.6	628	PASS
127	198	10	80	41.0	135696	PASS
197	198	0.00	2	0.6	2011	PASS
198	198	100	100	100.0	330880	PASS
199	198	5	9	6.6	21765	PASS
275	198	10	60	24.4	80608	PASS
365	198	1	100	2.9	9438	PASS
441	443	0.01	100	73.0	28365	PASS
442	198	50	100	58.7	194176	PASS
443	442	15	24	20.0	38837	PASS

01837

Average of 12.180 to 12.192 min.: DEL02S20.D\data.ms
SSTD020DL 28463 DFTPPDL
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	136	50.95	129113	62.95	4248	74.95	16858
36.95	424	52.00	6386	63.90	644	76.00	6799
38.00	1396	52.90	303	64.95	2193	76.95	136348
38.95	8723	54.95	482	65.95	153	78.00	9204
39.85	472	55.95	3150	66.95	247	78.90	6409
40.90	211	56.95	8056	67.95	1649	79.90	5304
43.00	86	57.90	402	68.90	102615	80.90	8068
43.90	147	58.80	50	69.95	628	81.90	2050
44.90	252	60.00	51	70.95	114	82.95	2155
48.90	901	60.95	1171	72.90	654	84.90	1712
49.95	31510	61.90	1555	74.00	10049	85.85	2048

Average of 12.180 to 12.192 min.: DEL02S20.D\data.ms
SSTD020DL 28463 DFTPPDL
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
86.90	1142	98.90	7362	109.90	66333	120.90	58
87.85	430	99.90	652	110.90	10262	121.10	70
88.95	281	100.90	5072	111.90	1245	121.90	2080
90.90	1465	101.85	302	112.90	506	122.90	3508
91.90	1800	102.90	1353	113.85	185	123.90	1601
92.90	12460	103.90	2450	114.85	75	124.90	1590
93.90	882	104.90	2585	115.90	1866	126.00	714
94.95	373	105.90	927	116.90	32987	126.90	135696
95.95	786	106.90	40152	117.95	2290	127.95	10268
96.90	268	107.95	6211	118.90	358	128.90	49043
97.95	9315	108.95	1034	119.90	538	129.90	4125

Average of 12.180 to 12.192 min.: DEL02S20.D\data.ms
SSTD020DL 28463 DFTPPDL
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
130.90	970	141.95	2058	152.85	2047	163.85	227
131.90	475	142.85	1523	153.85	1554	164.90	2261
132.85	235	143.95	406	154.90	4112	165.90	1778
133.90	1234	144.95	319	155.95	6219	166.95	15368
134.90	4303	145.85	1223	156.95	1164	167.90	7654
135.90	1660	146.90	3220	157.85	1095	168.95	1452
136.95	2309	147.90	8599	158.90	945	169.90	372
137.90	503	148.85	1569	159.90	1967	170.70	192
138.90	154	149.85	516	160.95	3516	170.85	323
139.90	422	150.95	836	161.90	974	171.90	1084
140.90	5929	151.70	494	162.85	307	172.90	1662

Average of 12.180 to 12.192 min.: DEL02S20.D\data.ms
SSTD020DL 28463 DFTPPDL
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
173.90	3214	184.90	5548	195.90	9103	207.90	2457
174.95	6123	185.90	42939	196.90	2011	208.85	906
175.90	1659	186.90	12077	197.90	330880	209.90	434
176.90	2398	187.95	1249	198.90	21765	210.10	503
177.95	799	188.90	2330	199.95	1852	210.90	3238
178.90	10699	189.85	441	201.40	1542	212.85	300
179.90	7769	190.95	1223	202.90	1932	214.90	771
180.90	3854	191.90	3909	203.90	12261	215.90	1797
181.90	643	192.90	4369	204.90	20173	216.90	22293
182.95	325	193.90	984	205.95	84333	217.90	3027
183.90	919	194.85	540	206.90	11231	218.90	293

Average of 12.180 to 12.192 min.: DEL02S20.D\data.ms
SSTD020DL 28463 DFTPPDL
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
220.90	16627	232.85	307	243.95	37491	254.90	185515
222.90	5488	233.85	1035	244.95	5011	255.90	27563
223.90	47661	234.90	1431	245.90	6634	256.90	2067
224.90	11993	235.90	1074	246.90	1441	257.90	9939
225.90	1330	236.90	1528	247.80	405	258.90	1704
226.90	17892	237.85	224	248.90	1358	259.85	346
227.90	2496	238.90	674	249.80	272	260.90	339
228.90	4139	239.85	547	250.85	365	262.90	61
229.90	595	240.90	1081	251.85	367	263.80	327
230.90	2009	241.95	2661	252.95	927	264.90	4388
231.85	344	242.95	2676	253.95	1504	265.85	624

Average of 12.180 to 12.192 min.: DEL02S20.D\data.ms
SSTD020DL 28463 DFTPPDL
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
269.85	217	281.85	191	293.85	323	309.95	310
270.85	379	282.90	759	294.95	445	313.00	68
271.95	487	283.90	559	295.90	22757	313.95	1119
272.90	5868	284.90	1174	296.90	3196	314.90	2588
273.90	14649	285.95	229	297.90	161	315.95	1310
274.90	80608	287.90	66	300.85	221	316.85	219
275.90	10551	288.85	307	301.85	356	320.90	670
276.90	6264	289.90	251	302.95	2486	321.90	367
277.90	1156	290.80	50	303.90	664	323.00	6993
278.85	263	291.90	330	307.85	295	323.90	1413
280.95	121	292.90	1442	308.85	226	324.90	109

Average of 12.180 to 12.192 min.: DEL02S20.D\data.ms
SSTD020DL 28463 DFTPPDL
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
325.90	51	346.85	265	372.00	3318	403.95	562
326.85	1296	350.90	102	372.95	813	414.80	52
327.90	737	351.95	1986	373.90	51	420.90	1576
328.95	123	352.95	1380	382.95	828	421.95	1407
331.95	595	353.95	2016	383.90	259	423.00	10096
333.00	679	354.95	408	389.95	447	423.90	1911
333.90	4291	358.90	58	390.90	269	424.95	189
334.95	974	364.90	9438	391.85	208	437.70	55
341.00	851	365.90	1321	400.90	210	438.60	55
341.85	225	369.80	165	401.95	1314	439.90	57
345.90	1503	370.90	497	402.95	1706	441.00	28365

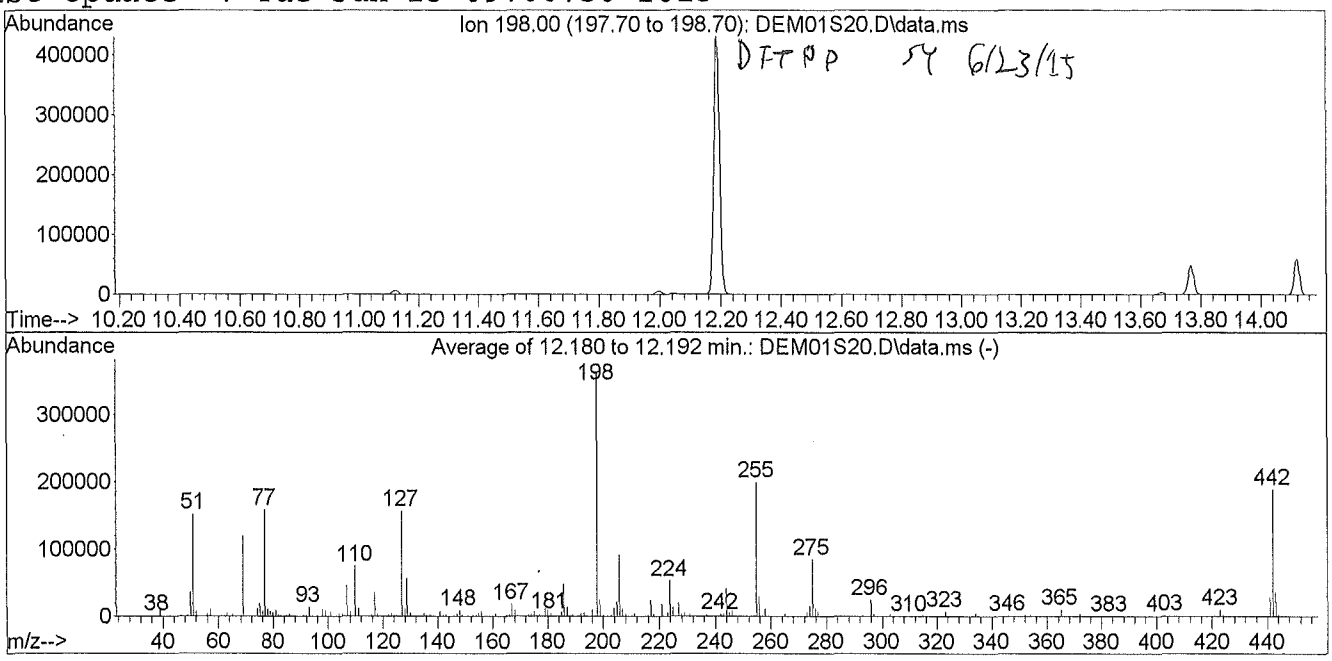
Average of 12.180 to 12.192 min.: DEL02S20.D\data.ms
SSTD020DL 28463 DFTPPDL
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
442.00	194176						
443.00	38837						
444.00	3467						
444.95	178						

Data Path : C:\msdchem\1\DATA\2015\JUN15\23JUN15\
Data File : DEM01S20.D
Acq On : 06/23/2015 08:20
Operator : DJC
Sample : SSTD020DM 28463 DFTPPDM
Inst : 5975-D
Misc : . X7-19-15
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\DSOM01D6.M
Title : EPA/CLP SOM01
Last Update : Tue Jun 23 09:00:50 2015



Average of scans 1716, 1717, 1718 Background subtracted with scan 1743

Spectrum Information: Average of 12.180 to 12.192 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	41.8	151925	PASS
68	69	0.00	2	1.6	1891	PASS
69	198	0.00	100	33.0	119944	PASS
70	69	0.00	2	0.5	658	PASS
127	198	10	80	43.2	157073	PASS
197	198	0.00	2	0.6	2164	PASS
198	198	100	100	100.0	363465	PASS
199	198	5	9	6.9	25242	PASS
275	198	10	60	23.3	84727	PASS
365	198	1	100	2.7	9839	PASS
441	443	0.01	100	77.4	27970	PASS
442	198	50	100	51.8	188386	PASS
443	442	15	24	19.2	36141	PASS

Average of 12.180 to 12.192 min.: DEM01S20.D\data.ms
SSTD020DM 28463 DFTPPDM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.85	271	48.90	1814	60.00	50	70.95	391
37.95	1621	49.95	36293	60.95	1429	72.90	815
39.00	10243	51.00	151925	61.95	1817	73.95	12087
39.90	458	51.95	7696	62.95	4909	74.90	19092
41.00	363	52.90	321	63.90	798	76.00	7663
41.90	70	54.95	547	65.00	2680	77.00	158402
43.00	116	55.90	3570	65.90	237	77.95	10709
43.90	121	56.90	9661	66.90	150	78.90	7357
44.95	361	57.95	484	68.00	1891	79.90	5986
46.90	49	58.95	209	68.90	119944	80.90	9333
47.90	216	59.80	81	69.90	658	81.95	2796

Average of 12.180 to 12.192 min.: DEM01S20.D\data.ms
SSTD020DM 28463 DFTPPDM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
82.90	2235	94.95	503	105.95	1087	116.90	36135
83.90	504	95.95	955	106.90	45682	117.90	2659
84.90	1424	96.95	271	107.90	6871	118.85	373
85.85	2820	97.90	9861	108.95	976	119.90	534
86.95	1315	98.90	8146	109.90	75269	120.85	245
87.90	617	99.95	846	110.90	11576	121.90	2279
88.90	395	100.90	5712	111.90	1463	122.90	4001
90.90	1966	101.90	350	112.90	461	123.90	1768
91.90	2069	102.85	1261	113.90	196	124.90	1979
92.90	13974	103.90	3132	114.95	305	126.05	708
93.95	1011	104.90	3064	115.90	2089	126.90	157073

Average of 12.180 to 12.192 min.: DEM01S20.D\data.ms
SSTD020DM 28463 DFTPPDM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
127.90	11449	138.90	243	149.80	115	158.90	1104
128.85	56325	139.90	567	149.95	428	159.90	2344
129.90	5005	140.85	6562	151.00	1063	160.90	3685
130.90	992	141.95	2357	151.60	204	161.90	1118
131.85	602	142.90	1926	151.75	401	162.95	353
132.95	138	143.90	510	152.90	2197	163.90	544
133.90	1474	144.85	428	153.95	1792	164.90	2299
134.90	4524	145.90	1305	154.90	4552	165.90	2485
135.95	1939	146.95	3886	155.90	6911	166.90	17927
137.00	2507	147.85	8981	156.95	1363	167.95	8633
137.85	637	148.90	1872	157.85	1285	168.95	1673

Average of 12.180 to 12.192 min.: DEM01S20.D\data.ms
SSTD020DM 28463 DFTPPDM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
169.90	306	179.85	8680	190.95	1303	202.90	2238
170.10	168	180.90	4384	191.90	4097	203.90	13103
170.90	634	181.90	656	192.90	5054	204.90	21838
171.90	1346	182.85	369	193.95	904	205.90	91827
172.90	1954	183.90	1062	194.95	686	206.90	12244
173.90	3694	184.90	6485	195.90	9689	207.90	2741
174.90	6832	185.90	47842	196.90	2164	208.90	879
175.95	1772	186.90	13658	197.85	363465	210.15	1480
176.90	2593	187.90	1465	198.85	25242	210.95	3681
177.90	1019	188.90	2539	199.90	1983	211.60	204
178.90	11847	189.85	467	201.35	1568	212.90	273

:01944

Average of 12.180 to 12.192 min.: DEM01S20.D\data.ms
SSTD020DM 28463 DFTPPDM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
214.90	938	226.90	20136	237.85	253	248.85	1525
215.90	2092	227.90	2811	238.90	750	249.85	295
216.90	24550	228.90	4849	239.90	676	250.85	375
217.90	3220	229.85	678	240.90	1137	251.85	388
218.95	296	230.90	2095	241.90	2964	252.90	952
220.90	17959	231.85	349	242.95	3058	253.90	1623
221.70	1486	232.85	351	243.90	41017	254.90	198906
222.90	6040	233.90	1295	244.95	5606	255.85	29541
223.90	53237	234.90	1574	245.90	7513	256.90	2383
224.90	13446	235.90	1218	246.90	1461	257.90	11034
225.90	1475	236.90	1780	247.85	359	258.90	1787

Average of 12.180 to 12.192 min.: DEM01S20.D\data.ms
SSTD020DM 28463 DFTPPDM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
259.85	381	273.85	15718	285.90	209	295.90	24163
260.85	298	274.90	84727	287.90	58	296.90	3450
262.85	110	275.90	11319	288.85	308	297.85	251
263.85	416	276.90	7121	289.90	253	300.60	85
264.90	4497	277.85	1154	290.80	254	300.85	207
265.85	824	278.85	257	291.95	334	301.80	69
266.80	52	280.95	145	292.85	1540	301.95	328
269.80	254	281.85	280	293.80	83	302.90	2670
270.85	435	282.95	771	293.95	320	303.90	699
271.95	604	283.85	603	294.80	89	307.90	319
272.90	6258	284.95	1289	294.95	387	308.85	195

Average of 12.180 to 12.192 min.: DEM01S20.D\data.ms
SSTD020DM 28463 DFTPPDM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
309.95	333	325.90	56	341.90	115	369.90	141
312.80	164	326.90	1381	345.90	1606	370.90	490
313.95	1024	327.85	742	346.90	314	371.95	3217
314.95	2594	328.90	58	351.00	61	372.95	837
315.95	1472	331.90	556	351.95	1966	376.80	51
316.95	284	332.95	782	352.95	1344	382.85	902
320.95	704	333.95	4506	353.95	2044	383.90	271
321.95	362	334.95	1144	354.95	443	389.85	443
323.00	7325	335.85	113	358.80	61	390.95	298
323.90	1336	340.95	883	364.90	9839	391.85	172
324.90	51	341.70	53	365.90	1392	400.85	256

Average of 12.180 to 12.192 min.: DEM01S20.D\data.ms
SSTD020DM 28463 DFTPPDM
Modified:subtracted

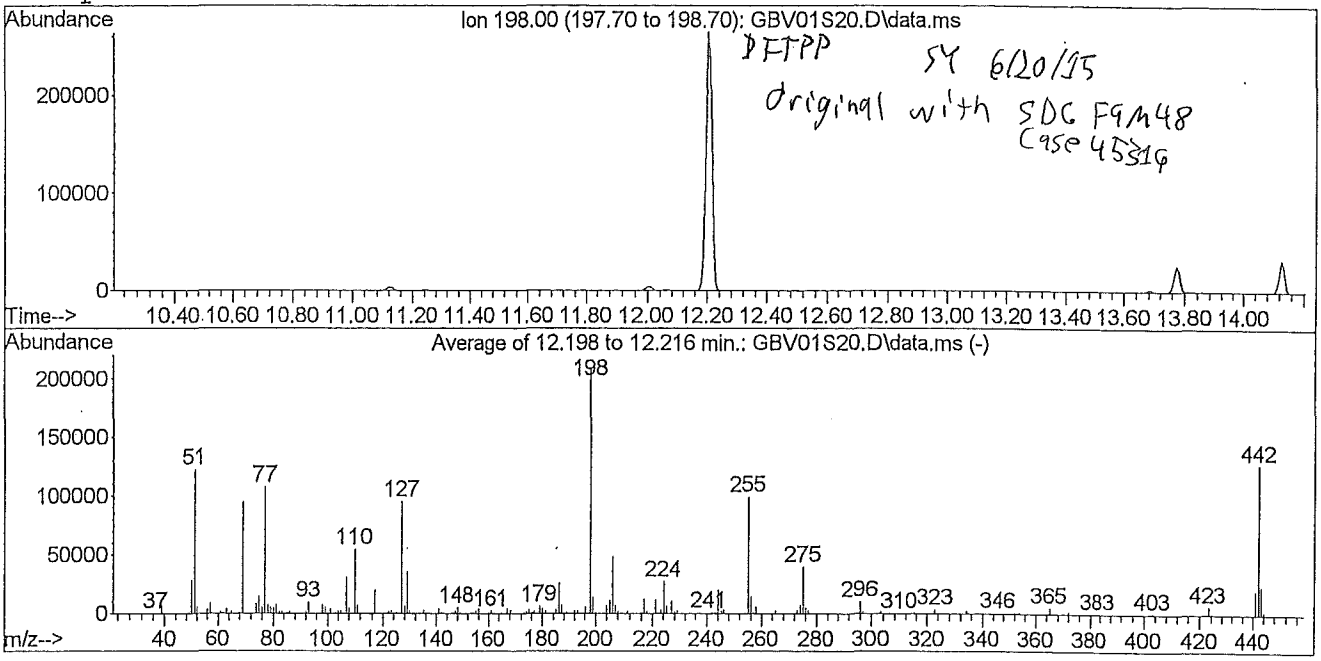
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
401.85	1274	440.95	27970				
402.95	1670	442.00	188386				
403.85	689	442.95	36141				
420.90	1451	444.00	3296				
421.90	1397	444.90	190				
423.00	9717						
423.95	1967						
424.90	138						
438.00	61						
439.00	64						
439.90	80						

DFTPP

Data Path : C:\msdchem\1\data\2015\JUN15\20JUN15\
Data File : GBV01S20.D
Acq On : 06/20/2015 10:04
Operator : DJC
Sample : SSTD020GT DFTPPGT
Inst : 5975-G
Misc : . X07/19/15
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\GSOM01D6.M
Title : EPA/CLP SOM01
Last Update : Fri Jun 19 14:55:14 2015



Average of scans 1720, 1721, 1722 Background corrected with scan 1713

Spectrum Information: Average of 12.198 to 12.216 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	58.4	122479	PASS
68	69	0.00	2	1.4	1289	PASS
69	198	0.00	100	45.3	94995	PASS
70	69	0.00	2	0.4	347	PASS
127	198	10	80	45.5	95459	PASS
197	198	0.00	2	0.5	1028	PASS
198	198	100	100	100.0	209680	PASS
199	198	5	9	6.9	14453	PASS
275	198	10	60	19.0	39760	PASS
365	198	1	100	2.4	5047	PASS
441	443	0.01	100	83.5	19783	PASS
442	198	50	100	60.7	127242	PASS
443	442	15	24	18.6	23684	PASS

Average of 12.198 to 12.216 min.: GBV01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	48	53.05	286	65.00	2025	77.05	107389
36.95	234	54.90	435	66.05	202	78.10	7197
38.00	808	56.00	3303	67.00	59	79.00	5878
39.00	7424	57.00	8693	68.00	1289	80.00	4851
39.95	227	58.00	420	69.00	94995	81.00	7426
41.00	312	59.00	119	70.05	347	82.05	1707
45.00	164	60.10	41	71.10	61	83.15	2066
49.05	776	61.00	1404	73.05	682	85.00	1428
50.00	28409	62.00	1360	74.00	8419	85.95	1577
51.00	122479	63.00	4047	75.00	14491	86.95	661
52.00	6047	63.90	457	76.00	4815	88.00	566

Average of 12.198 to 12.216 min.: GBV01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
88.95	153	100.05	572	109.95	54862	122.05	1496
89.90	56	101.00	4023	110.95	7425	123.05	2352
91.00	1543	102.05	206	112.00	924	123.95	1193
92.05	1527	103.05	1153	113.05	320	125.10	1199
93.00	9816	104.00	2093	114.00	80	125.70	42
94.05	625	105.00	2050	115.00	23	126.10	601
95.00	280	106.05	771	116.00	1538	127.00	95459
96.10	507	107.00	30980	117.00	19717	128.05	6969
97.00	166	108.00	4749	118.05	1499	129.00	35978
98.00	7395	109.00	629	118.95	136	130.00	2936
99.00	5871	109.20	233	120.05	406	130.80	118

Average of 12.198 to 12.216 min.: GBV01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
131.05	729	140.95	4291	151.50	162	161.95	586
132.00	470	142.05	1388	152.05	201	163.00	184
133.05	100	142.95	935	153.00	1332	164.20	78
134.00	1027	144.05	230	154.05	1001	165.00	1573
135.00	2719	144.95	246	155.05	2319	167.10	4023
136.00	1240	146.05	747	156.05	3776	168.05	2944
136.95	681	147.05	2125	157.00	728	169.05	728
137.20	416	148.00	5018	157.95	625	169.95	252
138.00	41	148.95	935	159.00	615	170.60	56
138.20	127	150.00	398	159.95	1372	170.90	63
140.05	258	151.10	593	161.05	2364	171.05	328

Average of 12.198 to 12.216 min.: GBV01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
171.95	790	181.05	2187	191.00	635	201.60	611
173.00	1084	182.05	392	192.00	2216	202.00	41
174.00	1961	183.05	233	193.05	2415	203.05	1328
175.05	3478	184.00	417	194.00	707	204.10	7054
176.00	1255	184.20	157	195.05	612	205.10	10902
177.00	1626	185.00	3332	196.05	5932	206.10	48658
177.70	122	186.10	26216	196.95	1028	207.10	6594
178.00	463	187.05	7136	198.00	209680	208.05	1917
178.20	82	188.00	786	199.00	14453	209.00	571
179.00	6203	189.00	1282	200.00	1162	210.15	418
180.05	4703	190.05	173	201.35	555	211.10	1907

Average of 12.198 to 12.216 min.: GBV01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
212.00	200	222.00	765	232.20	135	243.05	1388
213.00	193	223.05	2928	232.90	135	244.10	20149
215.00	428	224.10	27360	233.95	597	245.10	2608
216.05	1006	225.05	6886	234.90	658	246.05	3494
217.00	12284	226.00	712	236.00	700	246.95	732
218.00	1720	227.00	10737	237.05	761	248.05	142
218.90	47	228.00	1696	238.95	428	249.00	789
219.20	93	229.00	2440	239.90	245	249.80	144
220.05	155	229.95	261	240.10	156	250.10	38
221.05	11517	231.00	986	240.95	572	251.00	206
221.70	701	231.90	82	242.05	1492	251.60	48

Average of 12.198 to 12.216 min.: GBV01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
252.00	317	264.05	197	275.10	39760	289.80	91
253.00	630	265.05	2079	276.05	4922	292.00	39
254.00	683	265.95	334	277.00	3151	292.20	54
255.05	99234	268.85	84	278.00	436	293.00	787
256.05	14608	269.75	93	278.90	85	293.95	240
257.05	987	271.00	55	282.00	42	294.90	97
258.00	5424	271.20	52	283.00	362	295.10	50
258.95	754	271.80	69	283.90	125	296.00	10333
259.90	81	272.15	245	285.00	742	297.00	1668
260.80	50	273.00	2948	286.05	93	297.90	101
261.00	53	274.05	7091	288.90	128	301.05	167

Average of 12.198 to 12.216 min.: GBV01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
301.95	235	323.05	3552	346.90	50	372.05	2035
303.05	1378	324.05	615	351.20	42	373.05	403
304.00	274	326.95	651	352.05	1098	382.95	491
307.95	115	327.95	384	353.10	891	383.95	154
309.85	140	332.05	179	354.00	1269	389.95	275
314.00	582	332.90	123	355.05	178	391.05	243
315.00	1328	333.05	191	359.05	88	402.00	751
315.80	98	334.05	2148	365.05	5047	403.05	1062
316.10	573	335.05	519	366.00	592	403.80	48
321.00	414	341.05	346	369.80	58	403.90	79
322.10	163	346.00	623	371.10	246	404.05	165

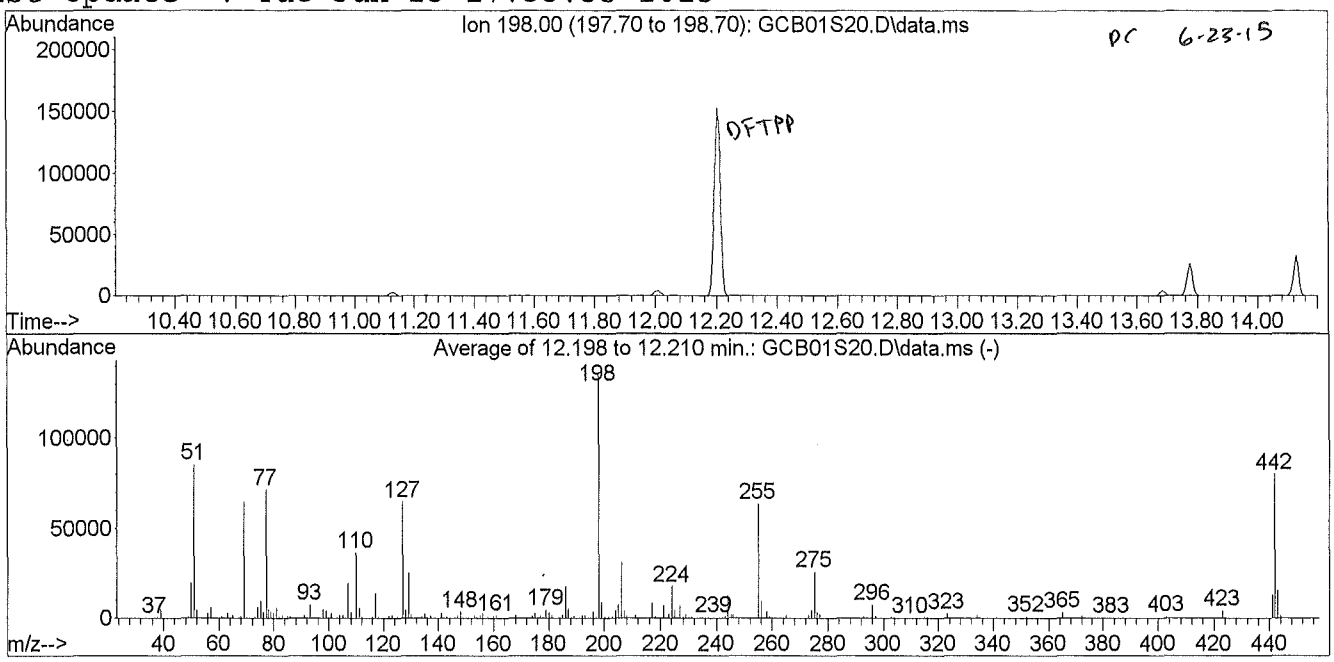
Average of 12.198 to 12.216 min.: GBV01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
420.90	955	434.80	135	444.90	90		
422.00	1008	435.40	48				
423.05	7009	435.65	141				
424.00	1280	436.00	60				
425.05	147	436.90	118				
430.00	43	438.10	66				
432.30	59	438.60	45				
432.60	94	441.05	19783				
433.60	80	442.10	127242				
434.00	40	443.10	23684				
434.20	48	444.05	2251				

Data Path : C:\msdchem\1\data\2015\JUN15\23JUN15PM\
Data File : GCB01S20.D
Acq On : 06/23/2015 17:03
Operator : TJM
Sample : SSTD020GB DFTPPB1 28435
Inst : 5975-G
Misc : . X07/19/15
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\GSOM01D6.M
Title : EPA/CLP SOM01
Last Update : Tue Jun 23 17:33:35 2015



pc 6-23-15

Average of Scans 1719, 1720, 1721; Background Corrected with Scan 1702

Spectrum Information: Average of 12.198 to 12.210 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	62.3	85178	PASS
68	69	0.00	2	1.1	741	PASS
69	198	0.00	100	47.3	64702	PASS
70	69	0.00	2	0.8	544	PASS
127	198	10	80	47.2	64507	PASS
197	198	0.00	2	0.7	938	PASS
198	198	100	100	100.0	136771	PASS
199	198	5	9	6.6	8986	PASS
275	198	10	60	18.7	25539	PASS
365	198	1	100	2.1	2890	PASS
441	443	0.01	100	84.8	13137	PASS
442	198	50	100	58.5	80029	PASS
443	442	15	24	19.3	15483	PASS

Average of 12.198 to 12.210 min.: GCB01S20.D\data.ms
SSTD020GB DFTPPB1 28435
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.95	302	56.00	2553	66.85	182	80.00	3091
37.95	922	57.00	5723	68.00	741	81.00	5315
39.00	5252	57.90	442	69.00	64702	82.00	859
39.90	340	58.95	139	69.95	544	83.05	1672
41.80	57	59.85	143	73.00	867	84.00	150
49.00	721	61.00	723	74.00	6089	85.00	976
50.00	19697	62.00	702	75.00	9303	85.95	870
51.00	85178	62.95	2543	76.00	3399	87.00	350
51.95	4339	64.00	277	77.10	71445	87.95	164
53.00	522	65.00	1534	78.05	4646	91.00	1368
55.00	343	66.05	163	79.00	3797	92.00	1024

Average of 12.198 to 12.210 min.: GCB01S20.D\data.ms
SSTD020GB DFTPPB1 28435
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.00	7313	104.95	1517	116.95	13738	128.00	4869
93.95	630	106.05	493	117.95	882	129.00	25123
96.00	288	107.00	19653	119.90	166	130.00	1860
97.00	175	108.00	3174	120.10	92	131.00	233
98.00	4757	109.00	476	121.10	58	131.90	311
99.00	4017	110.00	36311	122.00	1106	133.10	164
99.95	349	111.00	5319	123.00	1671	134.00	773
101.00	2650	112.00	804	124.00	800	135.00	2115
102.05	117	113.00	78	125.00	869	136.05	759
103.05	634	114.90	54	126.15	527	137.05	1154
104.00	1563	116.00	1027	127.00	64507	138.25	160

Average of 12.198 to 12.210 min.: GCB01S20.D\data.ms
SSTD020GB DFTPPB1 28435
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
138.90	201	150.00	313	159.05	451	170.95	229
141.00	2584	151.10	690	159.95	1030	171.95	591
141.95	959	151.75	183	161.00	1641	173.05	683
143.00	915	152.10	40	162.00	548	174.00	1231
144.05	237	153.00	1216	163.10	55	175.05	2481
145.00	177	153.95	757	164.15	205	175.80	147
145.90	344	155.05	1599	164.95	648	176.05	496
146.10	202	156.05	2654	166.05	119	176.95	1105
147.05	1266	156.80	107	168.05	1513	177.95	398
147.95	3516	157.10	442	169.00	492	179.00	4490
149.00	602	157.95	750	170.10	172	180.05	2924

Average of 12.198 to 12.210 min.: GCB01S20.D\data.ms
SSTD020GB DFTPPB1 28435
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
181.00	1600	191.00	613	200.85	141	212.00	223
181.85	113	192.00	1360	201.50	747	215.00	380
182.10	127	193.05	1552	203.00	927	216.00	624
183.05	170	194.00	120	204.00	4442	217.00	8238
183.95	427	194.20	315	205.10	7211	218.05	866
185.00	2083	195.00	315	206.10	31067	219.00	179
186.05	17596	196.05	3555	207.05	4098	219.90	125
187.10	5116	197.00	938	208.05	1155	221.05	7108
188.05	522	198.00	136771	208.95	393	221.80	402
189.00	1148	199.00	8986	210.00	385	222.00	303
190.05	171	200.05	787	211.00	1391	223.00	2058

Average of 12.198 to 12.210 min.: GCB01S20.D\data.ms
SSTD020GB DFTPPB1 28435
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
224.10	17500	234.00	385	244.10	12777	253.75	282
225.05	4490	235.00	531	245.05	1978	254.00	307
226.05	494	236.00	377	245.95	2113	255.00	63432
227.00	7095	237.00	560	247.00	424	256.05	9421
227.90	266	238.00	126	248.00	61	257.00	657
228.10	635	239.00	392	249.00	517	258.00	3603
229.00	1688	239.90	78	249.90	153	259.00	631
229.90	315	240.10	197	251.00	170	263.90	59
231.05	726	241.05	369	251.80	51	265.00	1501
232.00	89	242.05	890	252.10	66	266.00	284
233.05	115	243.15	1138	252.90	431	267.20	52

Average of 12.198 to 12.210 min.: GCB01S20.D\data.ms
SSTD020GB DFTPPB1 28435
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
270.10	55	279.00	54	295.00	134	315.05	791
270.80	127	280.95	127	296.00	7205	316.00	534
271.20	57	282.00	56	297.05	1123	317.10	67
271.60	65	283.05	252	297.90	51	320.90	209
271.85	123	284.05	144	300.95	143	321.90	161
273.00	1934	285.05	441	302.05	130	323.05	2510
274.05	4349	286.00	51	302.95	989	324.10	335
275.05	25539	288.95	133	304.00	239	326.85	490
276.10	3173	290.10	127	309.90	55	328.00	236
277.00	2013	292.95	636	313.70	56	329.00	76
277.95	458	294.00	52	314.05	202	332.00	143

Average of 12.198 to 12.210 min.: GCB01S20.D\data.ms
SSTD020GB DFTPPB1 28435
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
332.90	139	354.95	265	401.80	149	434.85	146
333.05	201	365.00	2890	402.05	362	435.80	61
334.05	1465	366.00	522	403.00	752	441.05	13137
334.95	353	370.95	231	403.90	102	442.00	80029
340.95	367	372.05	1196	404.10	209	443.05	15483
345.70	137	372.95	295	420.95	617	444.05	1425
345.95	339	382.90	104	422.05	577	444.80	61
346.20	111	383.05	227	423.00	4083		
352.00	802	384.00	69	423.80	180		
353.00	525	389.90	92	423.90	265		
354.05	590	391.10	70	424.05	542		

Data Path : C:\msdchem\1\data\2015\JUN15\24JUN15\
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Acq On : 06/24/2015 08:34
Operator : SY
Sample : SSTD020GC DFTPPGC 28435
Inst : 5975-G
Misc : . X07/19/15
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

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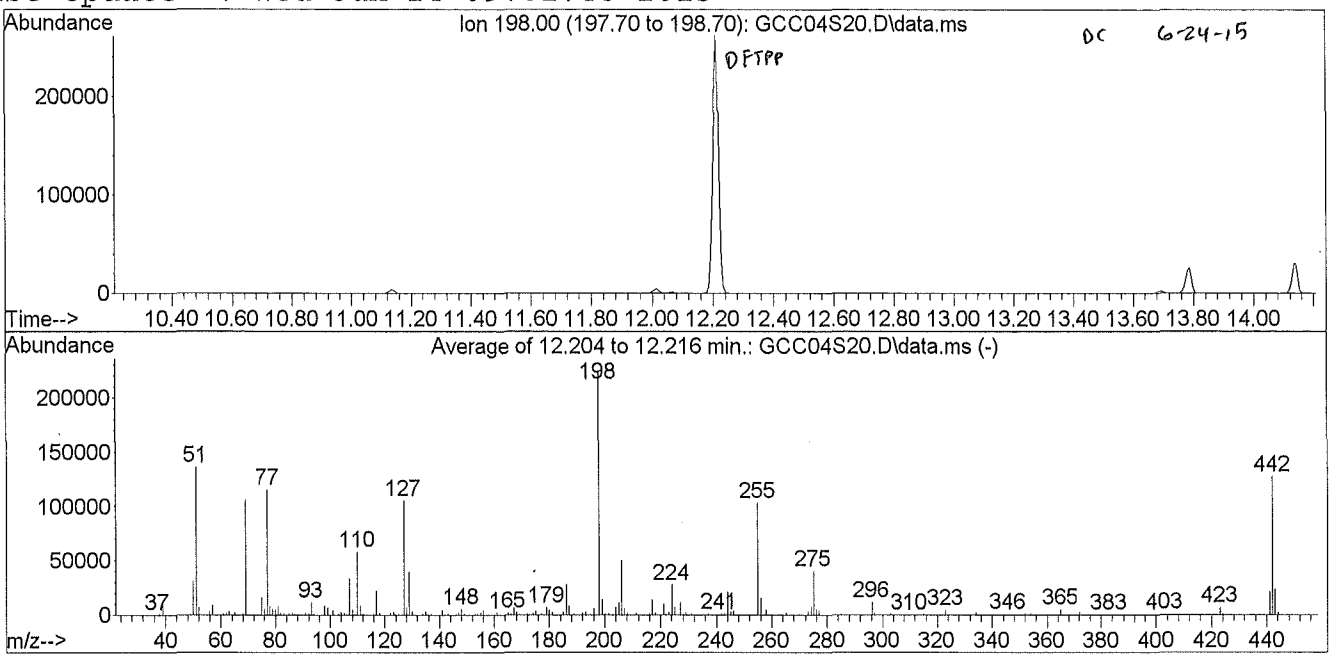
Title : EPA/CLP SOM01
Last Update : Wed Jun 24 09:01:46 2015



Average of Scans 1720, 1721, 1722; Background corrected with Scan 1711

Spectrum Information: Average of 12.204 to 12.216 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	60.6	136146	PASS
68	69	0.00	2	1.5	1558	PASS
69	198	0.00	100	47.0	105686	PASS
70	69	0.00	2	0.5	502	PASS
127	198	10	80	46.8	105120	PASS
197	198	0.00	2	0.4	998	PASS
198	198	100	100	100.0	224789	PASS
199	198	5	9	6.4	14299	PASS
275	198	10	60	17.9	40328	PASS
365	198	1	100	2.2	4920	PASS
441	443	0.01	100	92.1	21745	PASS
442	198	50	100	56.6	127176	PASS
443	442	15	24	18.6	23621	PASS

Average of 12.204 to 12.216 min.: GCC04S20.D\data.ms
SSTD020GC DFTPPGC 28435
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.80	50	51.00	136146	63.00	4014	76.10	5467
36.90	66	51.95	6999	64.00	731	77.05	115298
37.05	251	52.95	150	65.05	2470	78.05	8065
37.95	1119	55.05	733	65.90	178	79.00	5898
39.00	8205	56.00	3831	67.95	1558	80.00	5035
39.90	179	57.00	8884	69.00	105686	81.00	7803
41.00	205	57.90	277	70.05	502	81.95	1825
44.90	177	58.95	75	71.95	1	83.05	1535
46.80	51	59.90	45	73.00	821	83.90	378
49.05	670	60.95	1296	74.05	8622	85.00	1452
50.00	31103	62.00	1701	75.00	15769	86.00	1813

Average of 12.204 to 12.216 min.: GCC04S20.D\data.ms
SSTD020GC DFTPPGC 28435
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.05	1089	99.00	6657	110.00	58210	120.05	479
88.00	592	100.05	618	111.00	8350	121.10	40
88.90	40	101.00	4234	112.05	1038	122.00	1749
91.00	2037	101.95	459	113.00	171	123.05	2549
92.05	1854	102.95	1051	113.95	3	123.95	1308
93.00	11308	104.00	2514	114.30	77	125.00	1189
94.00	1104	105.00	2079	115.05	131	126.10	562
95.00	105	106.00	824	116.00	1413	127.05	105120
96.00	323	107.00	33648	117.00	21983	128.05	7301
97.00	405	108.05	4917	118.00	1793	129.00	39517
97.95	8200	109.10	894	119.00	257	130.05	3140

Average of 12.204 to 12.216 min.: GCC04S20.D\data.ms
SSTD020GC DFTPPGC 28435
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
130.95	638	142.00	1519	151.95	256	162.05	401
132.00	361	143.00	1069	153.00	1508	163.00	285
133.05	302	144.05	377	154.00	1218	164.00	367
134.00	1298	145.00	134	155.05	2384	165.00	1943
135.05	2969	145.20	153	156.05	4348	166.05	1287
135.95	1493	146.00	749	157.15	848	167.10	6741
137.05	1521	146.95	2566	158.00	1074	168.00	3315
137.70	108	148.00	5579	159.05	563	169.00	739
138.00	286	149.05	1307	160.05	1618	169.90	295
140.00	119	150.00	274	161.00	2357	170.10	113
141.00	4031	151.05	703	161.90	182	171.05	535

Average of 12.204 to 12.216 min.: GCC04S20.D\data.ms
SSTD020GC DFTPPGC 28435
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
172.00	929	182.10	276	193.05	2646	202.90	832
173.05	1064	183.00	127	193.95	604	203.10	509
174.05	1967	183.95	657	195.05	615	204.05	7107
175.05	3500	185.05	3301	196.05	6100	205.10	11494
176.05	1078	186.05	27901	196.70	998	206.10	50461
177.00	1574	187.05	8049	197.00	345	207.05	6384
178.00	741	188.05	860	198.00	224789	208.05	1722
179.00	6841	189.00	1491	199.00	14299	209.05	556
180.00	4950	189.90	216	200.05	1226	209.95	743
181.05	2701	191.05	788	201.45	999	211.05	2101
181.90	170	192.00	2033	202.00	120	211.75	422

Average of 12.204 to 12.216 min.: GCC04S20.D\data.ms
SSTD020GC DFTPPGC 28435
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
213.00	146	222.00	451	232.90	154	242.05	1323
214.90	226	223.05	2869	233.30	57	243.00	1505
215.05	362	224.10	27645	233.95	707	244.10	21608
216.05	1153	225.05	7182	234.95	834	245.10	3194
217.00	13466	226.05	781	235.90	450	246.05	3692
218.00	1861	227.05	11385	237.05	1044	247.05	631
218.80	112	228.05	1506	237.90	76	247.90	242
219.00	72	229.00	2456	238.10	59	249.05	1006
220.15	327	229.95	347	239.00	530	249.60	84
221.05	10335	231.00	1149	239.90	295	249.90	181
221.70	1504	231.85	147	241.05	788	250.95	269

Average of 12.204 to 12.216 min.: GCC04S20.D\data.ms
SSTD020GC DFTPPGC 28435
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
252.00	382	260.10	68	272.05	258	284.15	234
252.40	124	261.10	96	273.05	3112	284.90	183
252.80	145	263.80	78	274.05	7239	285.10	505
253.05	404	265.05	1992	275.05	40328	289.00	196
253.70	217	265.95	263	276.10	5763	289.85	111
253.95	404	267.00	74	277.00	3637	291.80	60
255.00	102827	269.70	78	277.95	520	292.10	63
256.00	15582	270.10	134	280.90	51	293.00	835
257.05	1231	270.70	53	282.00	75	294.00	320
258.05	5190	270.85	195	283.00	512	294.95	206
259.00	1084	271.60	85	283.90	69	296.05	11471

Average of 12.204 to 12.216 min.: GCC04S20.D\data.ms
SSTD020GC DFTPPGC 28435
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
297.00	1758	314.90	366	331.85	136	353.05	917
297.95	157	315.05	848	332.20	136	354.05	1276
301.05	188	316.05	764	333.00	52	355.05	258
302.05	242	316.80	52	333.15	253	365.00	4920
303.05	1413	321.00	366	334.05	2203	365.95	743
304.05	407	321.20	110	335.05	511	371.00	263
308.00	154	322.05	166	341.00	443	372.05	2411
309.00	65	323.10	4151	342.00	55	373.00	424
310.00	235	324.05	779	345.95	750	383.00	498
313.90	114	327.00	785	347.05	190	384.00	171
314.05	437	327.95	334	352.05	1208	385.00	65

Average of 12.204 to 12.216 min.: GCC04S20.D\data.ms
SSTD020GC DFTPPGC 28435
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
390.00	61	429.90	51	437.30	65		
390.60	50	430.20	51	441.05	21745		
391.00	109	431.80	55	442.10	127176		
401.95	814	432.30	62	443.05	23621		
403.00	882	433.50	91	444.05	2500		
403.80	127	433.70	171	444.90	146		
404.05	239	434.15	181	445.10	67		
421.10	1072	434.60	115				
422.00	928	435.40	122				
423.05	6700	435.80	85				
424.05	1497	436.40	90				

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK31

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 451431

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DEL08BLK

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/22/2015

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	170	U
108-95-2	Phenol	170	U
111-44-4	Bis(2-chloroethyl)ether	170	U
95-57-8	2-Chlorophenol	170	U
95-48-7	2-Methylphenol	170	U
108-60-1	2,2'-Oxybis(1-chloropropane)	170	U
98-86-2	Acetophenone	170	U
106-44-5	4-Methylphenol	170	U
621-64-7	N-Nitroso-di-n-propylamine	170	U
67-72-1	Hexachloroethane	170	U
98-95-3	Nitrobenzene	170	U
78-59-1	Isophorone	170	U
88-75-5	2-Nitrophenol	170	U
105-67-9	2,4-Dimethylphenol	170	U
111-91-1	Bis(2-chloroethoxy)methane	170	U
120-83-2	2,4-Dichlorophenol	170	U
91-20-3	Naphthalene	170	U
106-47-8	4-Chloroaniline	170	U
87-68-3	Hexachlorobutadiene	170	U
105-60-2	Caprolactam	170	U
59-50-7	4-Chloro-3-methylphenol	170	U
91-57-6	2-Methylnaphthalene	170	U
77-47-4	Hexachlorocyclopentadiene	170	U
88-06-2	2,4,6-Trichlorophenol	170	U
95-95-4	2,4,5-Trichlorophenol	170	U
92-52-4	1,1'-Biphenyl	170	U
91-58-7	2-Chloronaphthalene	170	U
88-74-4	2-Nitroaniline	330	U
131-11-3	Dimethylphthalate	170	U
606-20-2	2,6-Dinitrotoluene	170	U
208-96-8	Acenaphthylene	170	U
99-09-2	3-Nitroaniline	330	U
83-32-9	Acenaphthene	170	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK31

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 451431

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DEL08BLK

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/22/2015

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	330	U
100-02-7	4-Nitrophenol	330	U
132-64-9	Dibenzofuran	170	U
121-14-2	2,4-Dinitrotoluene	170	U
84-66-2	Diethylphthalate	170	U
86-73-7	Fluorene	170	U
7005-72-3	4-Chlorophenyl-phenylether	170	U
100-01-6	4-Nitroaniline	330	U
534-52-1	4,6-Dinitro-2-methylphenol	330	U
86-30-6	N-Nitrosodiphenylamine[1]	170	U
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U
101-55-3	4-Bromophenyl-phenylether	170	U
118-74-1	Hexachlorobenzene	170	U
1912-24-9	Atrazine	170	U
87-86-5	Pentachlorophenol	330	U
85-01-8	Phenanthrene	170	U
120-12-7	Anthracene	170	U
86-74-8	Carbazole	170	U
84-74-2	Di-n-butylphthalate	170	U
206-44-0	Fluoranthene	170	U
129-00-0	Pyrene	170	U
85-68-7	Butylbenzylphthalate	170	U
91-94-1	3,3'-Dichlorobenzidine	170	U
56-55-3	Benzo(a)anthracene	170	U
218-01-9	Chrysene	170	U
117-81-7	Bis(2-ethylhexyl)phthalate	170	U
117-84-0	Di-n-octylphthalate	170	U
205-99-2	Benzo(b)fluoranthene	170	U
207-08-9	Benzo(k)fluoranthene	170	U
50-32-8	Benzo(a)pyrene	170	U
193-39-5	Indeno(1,2,3-cd)pyrene	170	U
53-70-3	Dibenzo(a,h)anthracene	170	U
191-24-2	Benzo(g,h,i)perylene	170	U
58-90-2	2,3,4,6-Tetrachlorophenol	170	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SBLK31

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 451431
Sample wt/vol: 30.0 (g/mL) g Lab File ID: DEL08BLK
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: Decanted: (Y/N) Date Received:
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/22/2015
GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	625-86-5	Furan, 2,5-dimethyl-	2.46	93.	JN
02		Unknown 2-Pentanone, 4-hydroxy-	3.35	210	J
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.55	6300	J
04		Unknown 2-Nonanone	4.12	110	J
05		Unknown Oxazole, 2,4-dimethyl-	4.31	86.	J
06		Unknown 2-Chloro-5-hydroxy-2,4,6-cycloheptatrien	7.20	140	J
07	638-58-4	Tetradecanamide	12.81	73.	JN
08	629-54-9	Hexadecanamide	14.19	240	JN
09	301-02-0	9-Octadecenamide, (Z)-	15.11	2400	JN
10	629-54-9	Hexadecanamide	15.20	110	JN
11		Unknown Tetradecanamide	15.96	90.	J
12		Unknown Cyclohexanecarboxamide	16.23	110	J
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

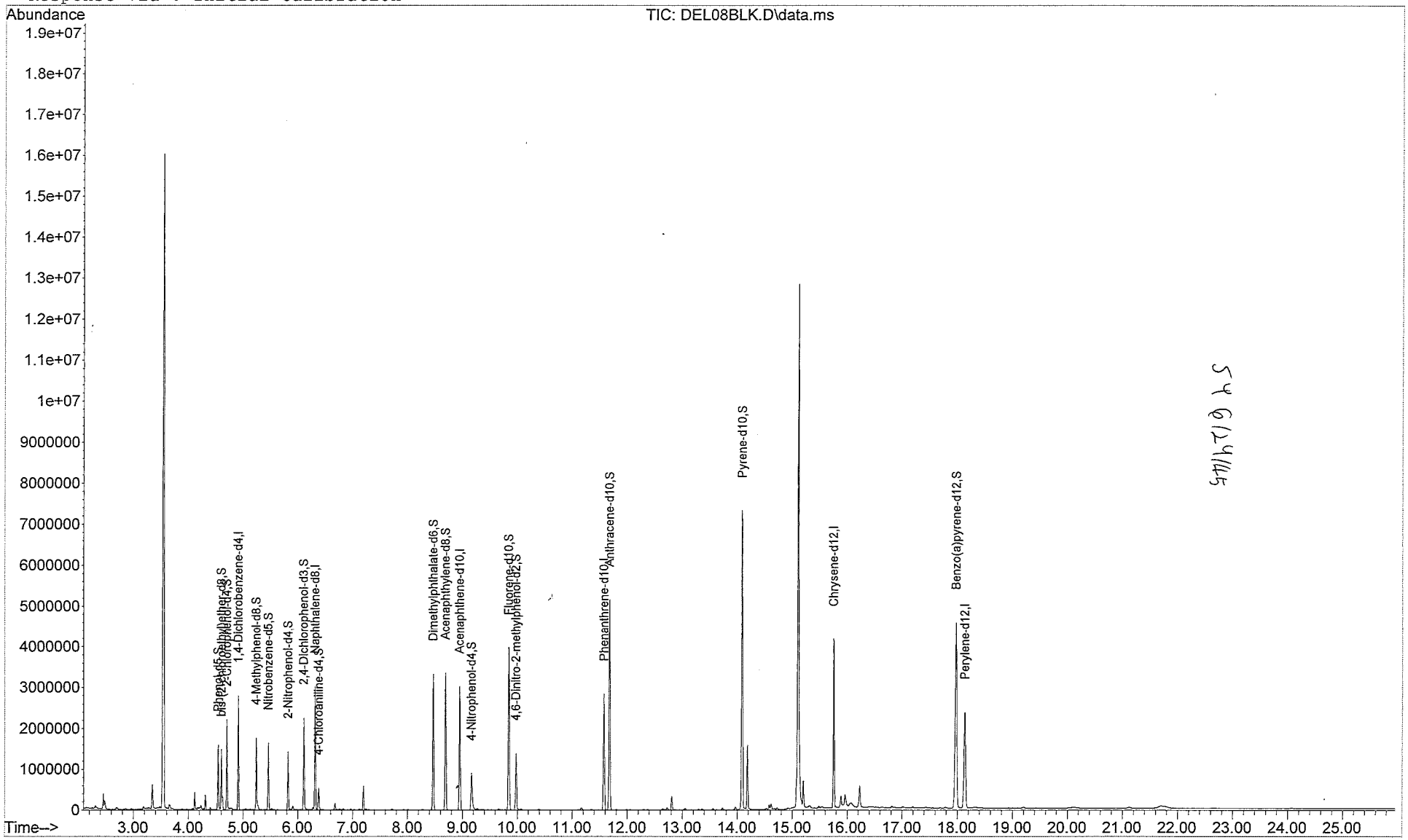
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL08BLK.D Vial: 7
Acq On : 06/22/2015 16:58 Operator: DJC
Sample : 451431 SBLK31 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 24 12:07:35 2015 Results File: DSOM01D6.RES

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 23 08:43:28 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL08BLK.D Vial: 7
Acq On : 06/22/2015 16:58 Operator: DJC
Sample : 451431 SBLK31 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
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Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 23 08:43:28 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.91	152	430246	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1526609	20.00 ug/ml
33) Acenaphthene-d10	8.95	164	948515	20.00 ug/ml
59) Phenanthrene-d10	11.58	188	1670385	20.00 ug/ml
73) Chrysene-d12	15.76	240	1978701	20.00 ug/ml
81) Perylene-d12	18.14	264	1832927	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.55	99	521463	18.482ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	340977	16.146ug/mL
7) 2-Chlorophenol-d4	4.70	132	550626	20.747ug/ml
13) 4-Methylphenol-d8	5.24	113	424142	20.236ug/mL
17) Nitrobenzene-d5	5.46	128	247474	19.691ug/ml
21) 2-Nitrophenol-d4	5.82	143	297343	20.762ug/mL
25) 2,4-Dichlorophenol-d3	6.11	165	558388	22.697ug/mL
28) 4-Chloroaniline-d4	6.38	131	200592	7.996ug/mL
42) Dimethylphthalate-d6	8.47	166	1923327	32.524ug/mL
45) Acenaphthylene-d8	8.69	160	2054820	26.436ug/mL
50) 4-Nitrophenol-d4	9.17	143	261663	23.705ug/mL
57) Fluorene-d10	9.85	176	1607695	30.624ug/mL
61) 4,6-Dinitro-2-methylphenol	9.98	200	333377	30.976ug/mL
69) Anthracene-d10	11.68	188	3092724	35.565ug/mL
75) Pyrene-d10	14.09	212	3486913	43.023ug/mL
86) Benzo(a)pyrene-d12	17.98	264	3526256	41.600ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL08BLK.D Vial: 7
Acq On : 06/22/2015 16:58 Operator: DJC
Sample : 451431 SBLK31 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 24 12:07:35 2015 Results File: DSOM01D6.RES

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 23 08:43:28 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) Acenaphthylene	0.00	152		Not Detected	
46) 3-Nitroaniline	0.00	138		Not Detected	
47) Acenaphthene	0.00	153		Not Detected	
48) 2,4-Dinitrophenol	0.00	184		Not Detected	
49) 4-Nitrophenol	0.00	109		Not Detected	
51) Dibenzofuran	0.00	168		Not Detected	
52) 2,4-Dinitrotoluene	0.00	165		Not Detected	
53) 2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54) Diethylphthalate	0.00	149		Not Detected	
55) 4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56) Fluorene	0.00	166		Not Detected	
58) 4-Nitroaniline	0.00	138		Not Detected	
60) 4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62) N-Nitrosodiphenylamine	0.00	169		Not Detected	
63) 4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64) Hexachlorobenzene	0.00	284		Not Detected	
65) Atrazine	0.00	200		Not Detected	
66) Pentachlorophenol	0.00	266		Not Detected	
67) Phenanthrene	0.00	178		Not Detected	
68) Anthracene	0.00	178		Not Detected	
70) Carbazole	0.00	167		Not Detected	
71) Di-n-butylphthalate	0.00	149		Not Detected	
72) Fluoranthene	0.00	202		Not Detected	
74) Pyrene	0.00	202		Not Detected	
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	0.00	228		Not Detected	
79) Chrysene	0.00	228		Not Detected	
80) Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	0.00	252		Not Detected	
84) Benzo(k)fluoranthene	0.00	252		Not Detected	
85) Benzo(a)pyrene	0.00	252		Not Detected	
87) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89) Benzo(g,h,i)perylene	0.00	276		Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

01857

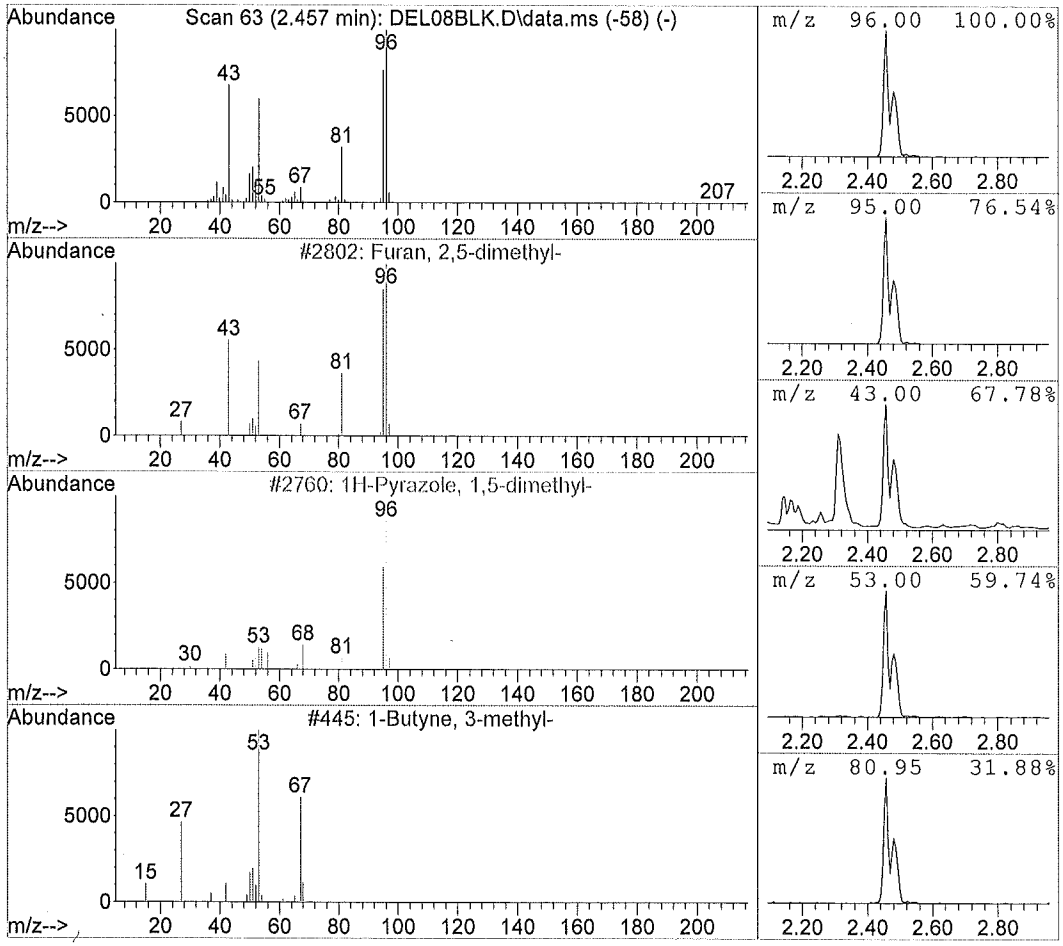
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL08BLK.D Vial: 7
Acq On : 06/22/2015 16:58 Operator: DJC
Sample : 451431 SBLK31 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.46	2.79 ug/ml	367059	1,4-Dichlorobenzene-d4	2627588

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Furan, 2,5-dimethyl-	2802	000625-86-5	91.00
2	1H-Pyrazole, 1,5-dimethyl-	2760	000694-31-5	38.00
3	1-Butyne, 3-methyl-	445	000598-23-2	38.00
4	Furfural	2737	000098-01-1	38.00
5	1H-Pyrazole, 1,3-dimethyl-	2761	000694-48-4	38.00

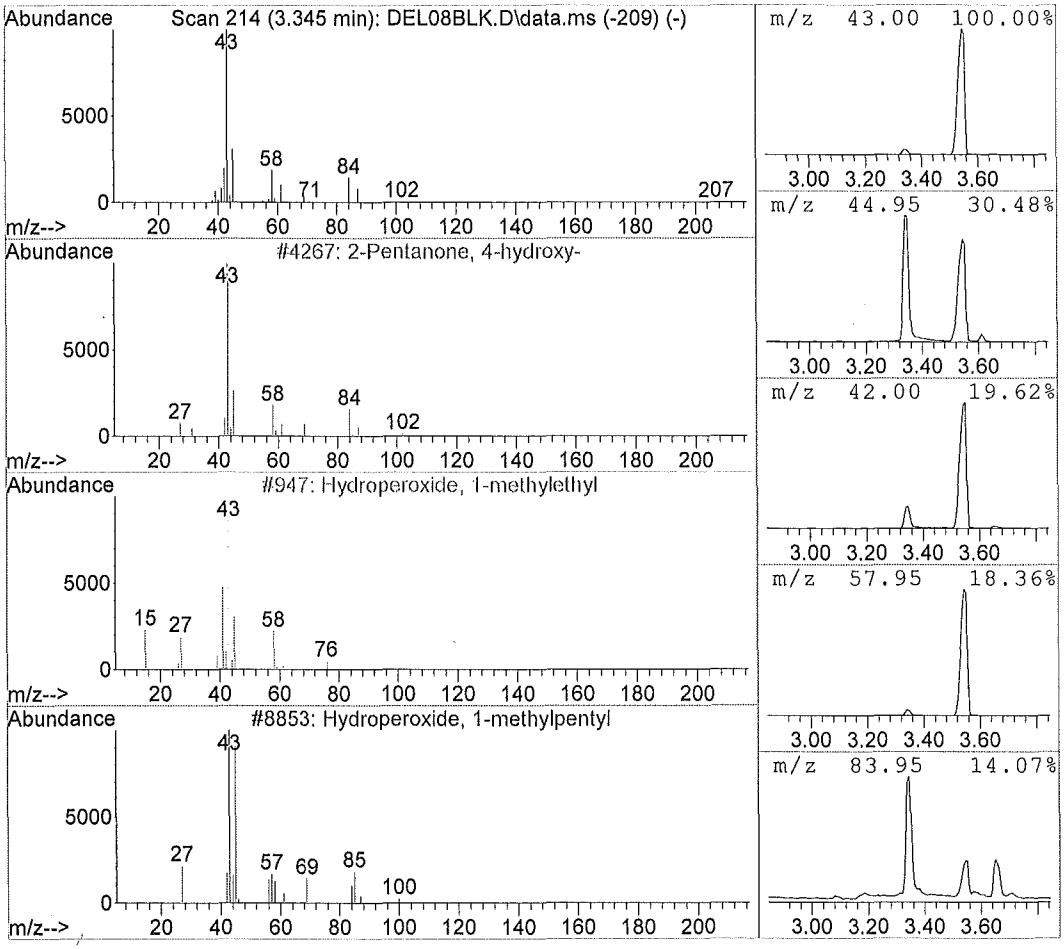


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL08BLK.D Vial: 7
Acq On : 06/22/2015 16:58 Operator: DJC
Sample : 451431 SBLK31 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.35	6.38 ug/ml	837936	1,4-Dichlorobenzene-d4	2627588

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	59.00
2	Hydroperoxide, 1-methylethyl	947	003031-75-2	38.00
3	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	36.00
4	Isopropyl acetate	4253	000108-21-4	17.00
5	1-Propen-2-ol, acetate	3686	000108-22-5	9.00

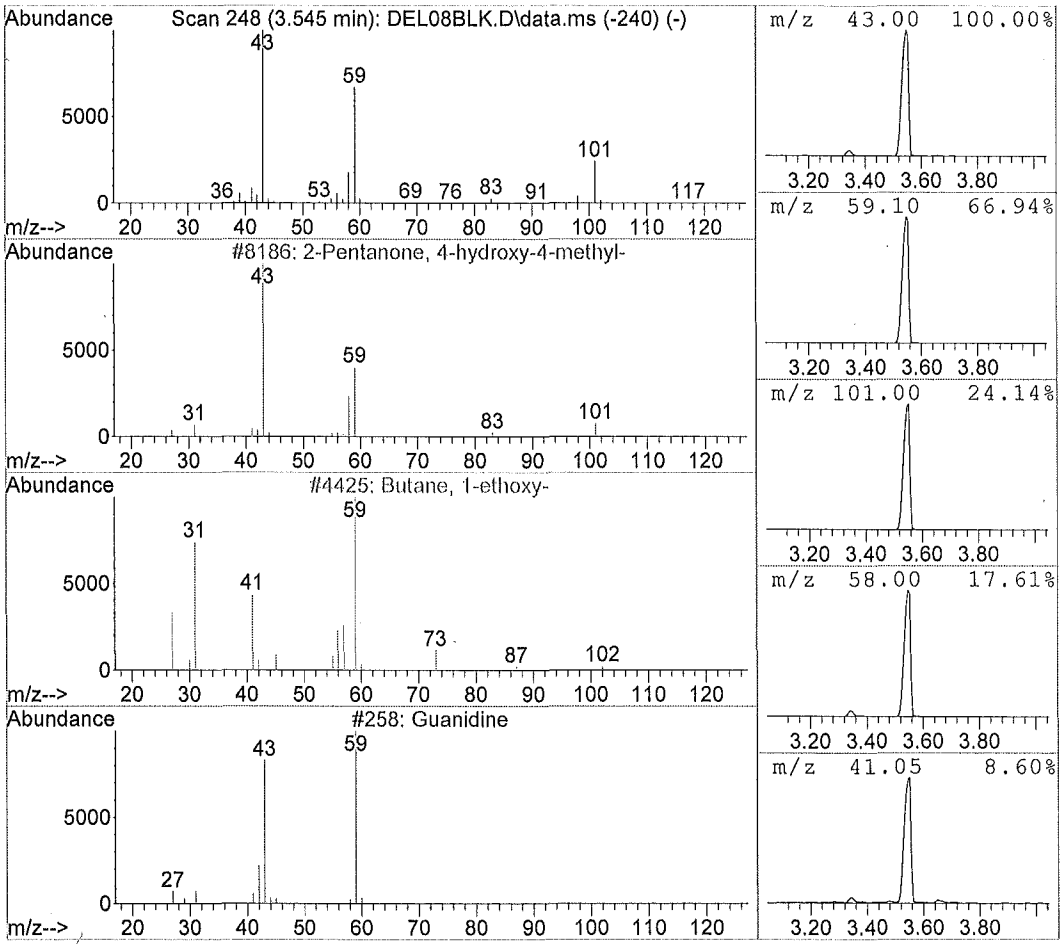


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL08BLK.D Vial: 7
Acq On : 06/22/2015 16:58 Operator: DJC
Sample : 451431 SBLK31 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.55	190.35 ug/ml	25008157	1,4-Dichlorobenzene-d4	2627588

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	56.00
2	Butane, 1-ethoxy-	4425	000628-81-9	9.00
3	Guanidine	258	000113-00-8	9.00
4	Morpholine, 4-methyl-	4083	000109-02-4	9.00
5	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	9.00

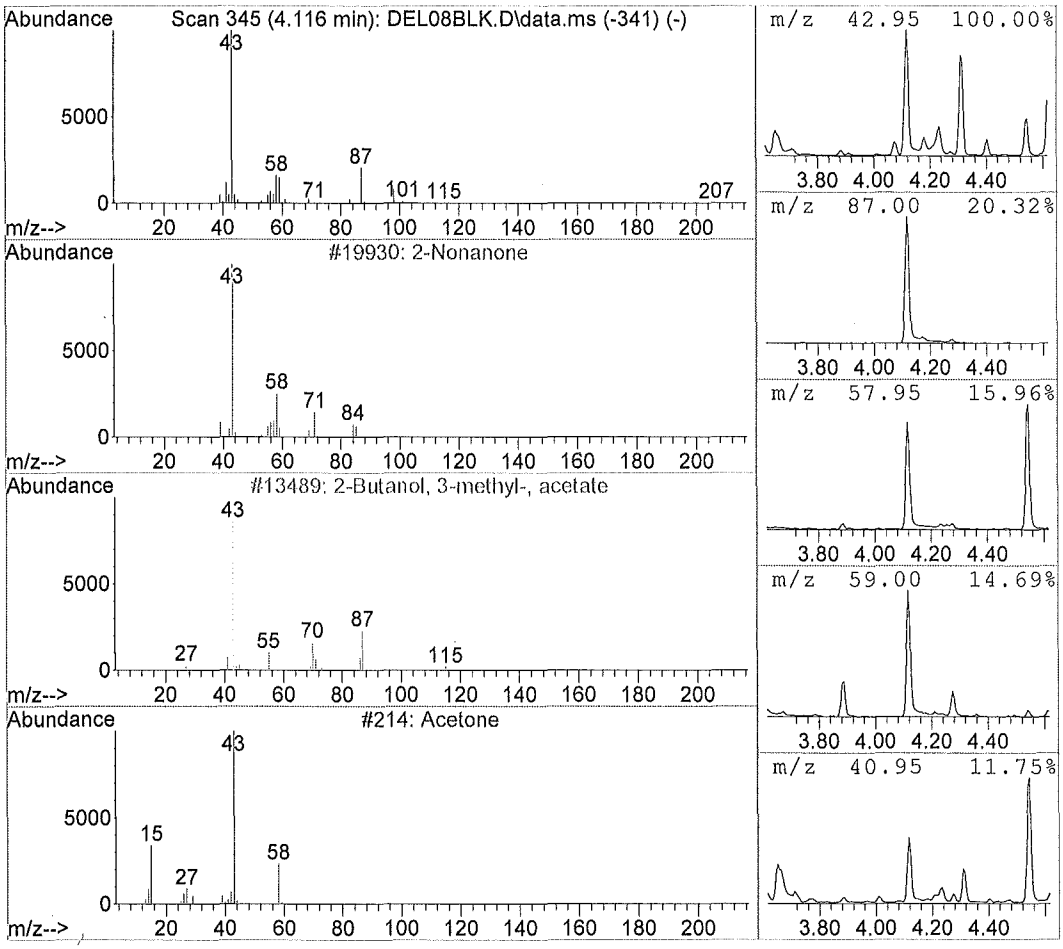


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL08BLK.D Vial: 7
Acq On : 06/22/2015 16:58 Operator: DJC
Sample : 451431 SBLK31 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.12	3.15 ug/ml	414100	1,4-Dichlorobenzene-d4	2627588

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Nonanone	19930	000821-55-6	38.00
2	2-Butanol, 3-methyl-, acetate	13489	005343-96-4	23.00
3	Acetone	214	000067-64-1	9.00
4	2-Butanol, 2,3-dimethyl-, acetate	20942	004806-33-1	9.00
5	2-Hexanone, 5-methyl-	7508	000110-12-3	9.00

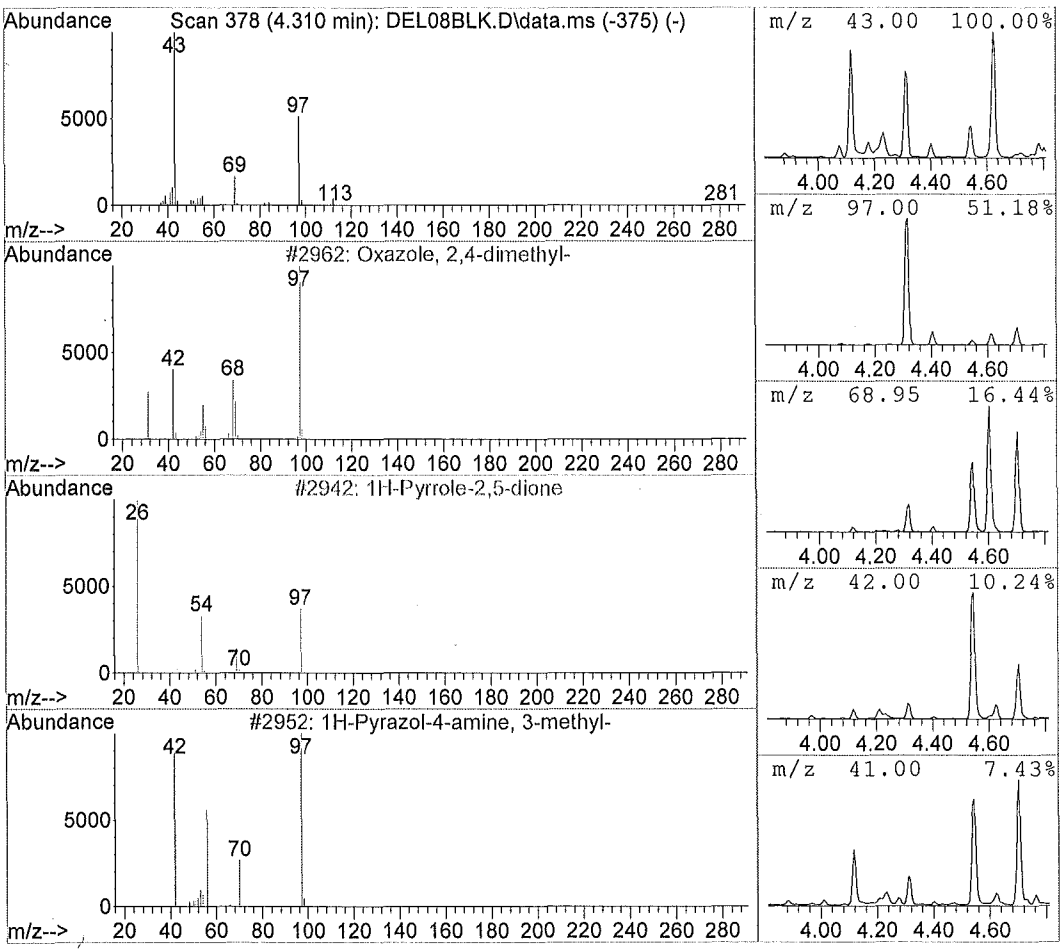


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL08BLK.D Vial: 7
Acq On : 06/22/2015 16:58 Operator: DJC
Sample : 451431 SBLK31 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.31	2.57 ug/ml	337573	1,4-Dichlorobenzene-d4	2627588

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Oxazole, 2,4-dimethyl-	2962	007208-05-1	38.00
2	1H-Pyrrole-2,5-dione	2942	000541-59-3	38.00
3	1H-Pyrazol-4-amine, 3-methyl-	2952	1000338-28-2	23.00
4	5-Hexen-2-one	3152	000109-49-9	10.00
5	2,4-Dimethyl-1,5-diazabicyclo[3.1.0	6335	1000283-20-9	9.00

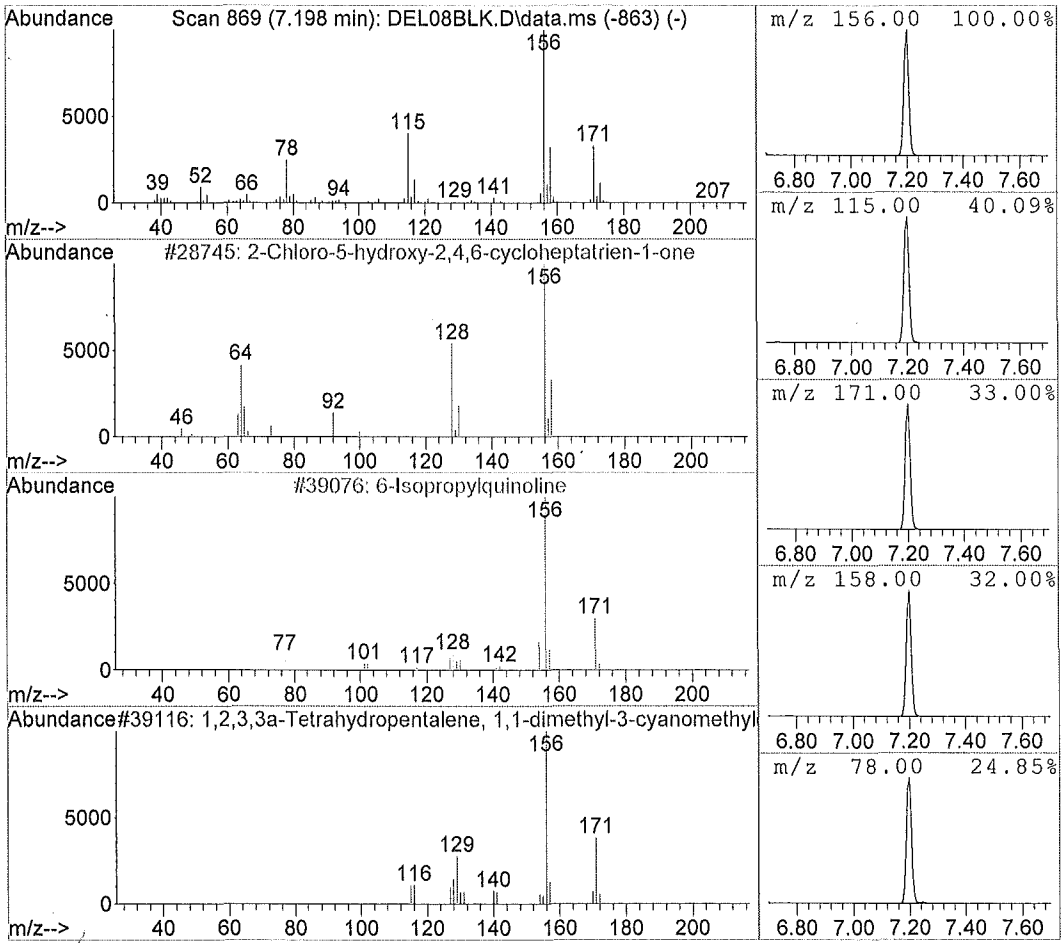


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL08BLK.D Vial: 7
Acq On : 06/22/2015 16:58 Operator: DJC
Sample : 451431 SBLK31 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.20	4.33 ug/ml	703339	Naphthalene-d8	3245376

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Chloro-5-hydroxy-2,4,6-cyclohepta	28745	007009-16-7	43.00
2	6-Isopropylquinoline	39076	000135-79-5	38.00
3	1,2,3,3a-Tetrahydropentalene, 1,1-d	39116	1000217-17-0	37.00
4	1,2,3,4-Tetrahydropentalene, 1,1-di	39115	1000217-18-6	37.00
5	Benzene, 2,5-cyclohexadien-1-yl-	28511	004794-05-2	28.00

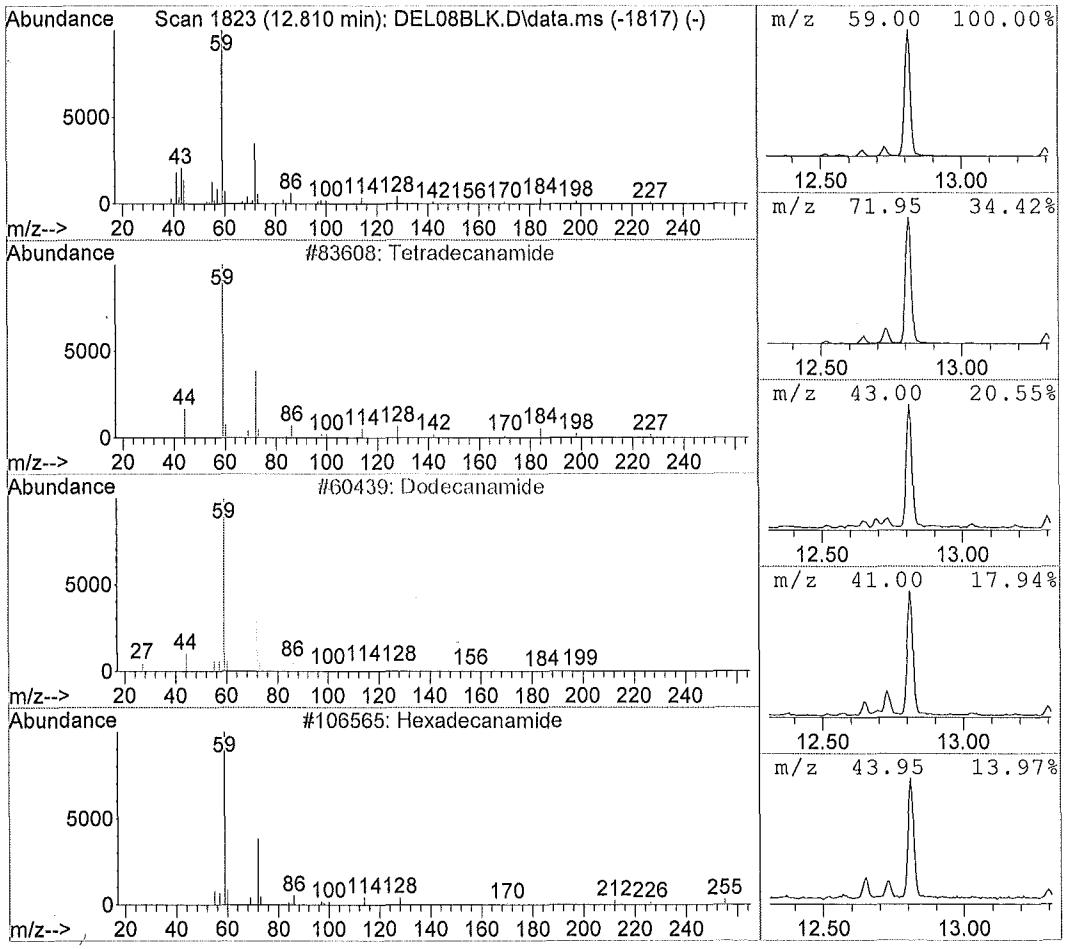


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL08BLK.D Vial: 7
Acq On : 06/22/2015 16:58 Operator: DJC
Sample : 451431 SBLK31 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.81	2.20 ug/ml	454808	Phenanthrene-d10	4139097

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83608	000638-58-4	97.00
2	Dodecanamide	60439	001120-16-7	90.00
3	Hexadecanamide	106565	000629-54-9	86.00
4	Decanamide-	38977	002319-29-1	83.00
5	Nonanamide	29478	001120-07-6	83.00

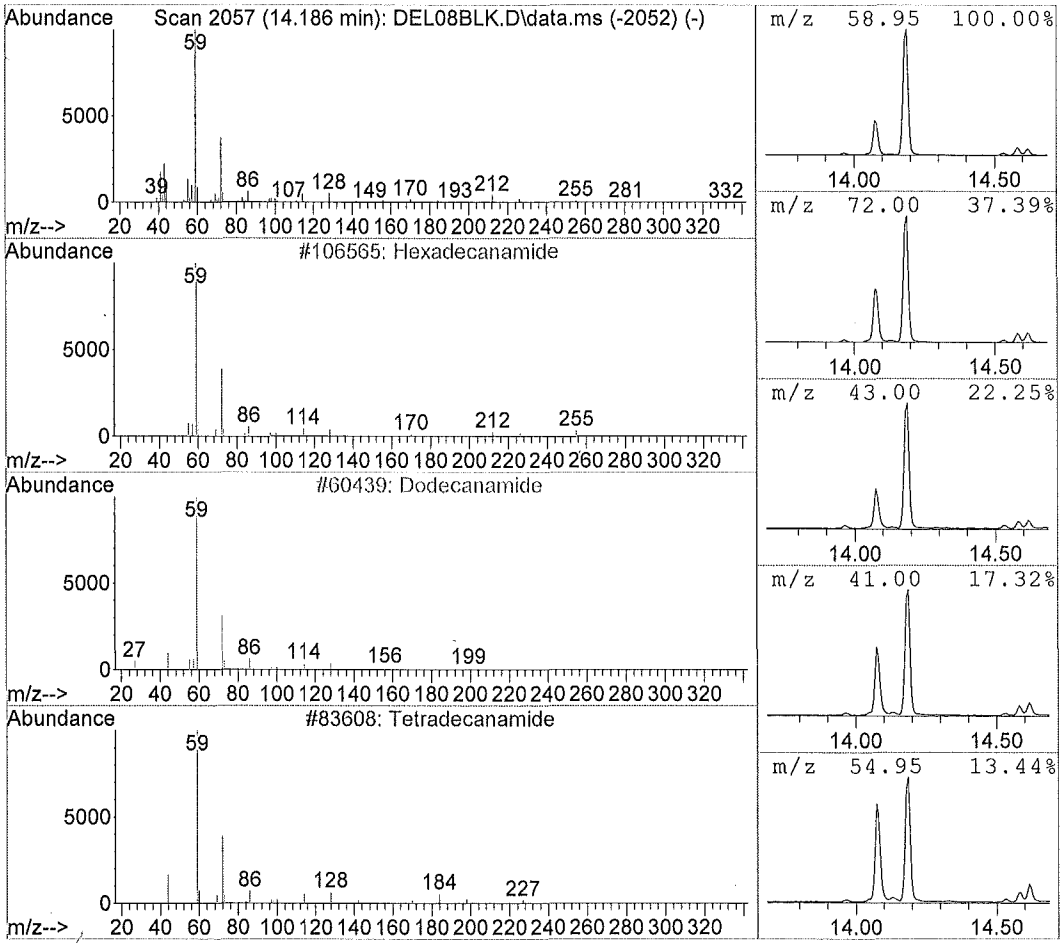


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL08BLK.D Vial: 7
Acq On : 06/22/2015 16:58 Operator: DJC
Sample : 451431 SBLK31 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.19	7.30 ug/ml	1896447	Chrysene-d12	5198140

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	91.00
2	Dodecanamide	60439	001120-16-7	90.00
3	Tetradecanamide	83608	000638-58-4	86.00
4	Nonanamide	29478	001120-07-6	78.00
5	Decanamide-	38977	002319-29-1	78.00

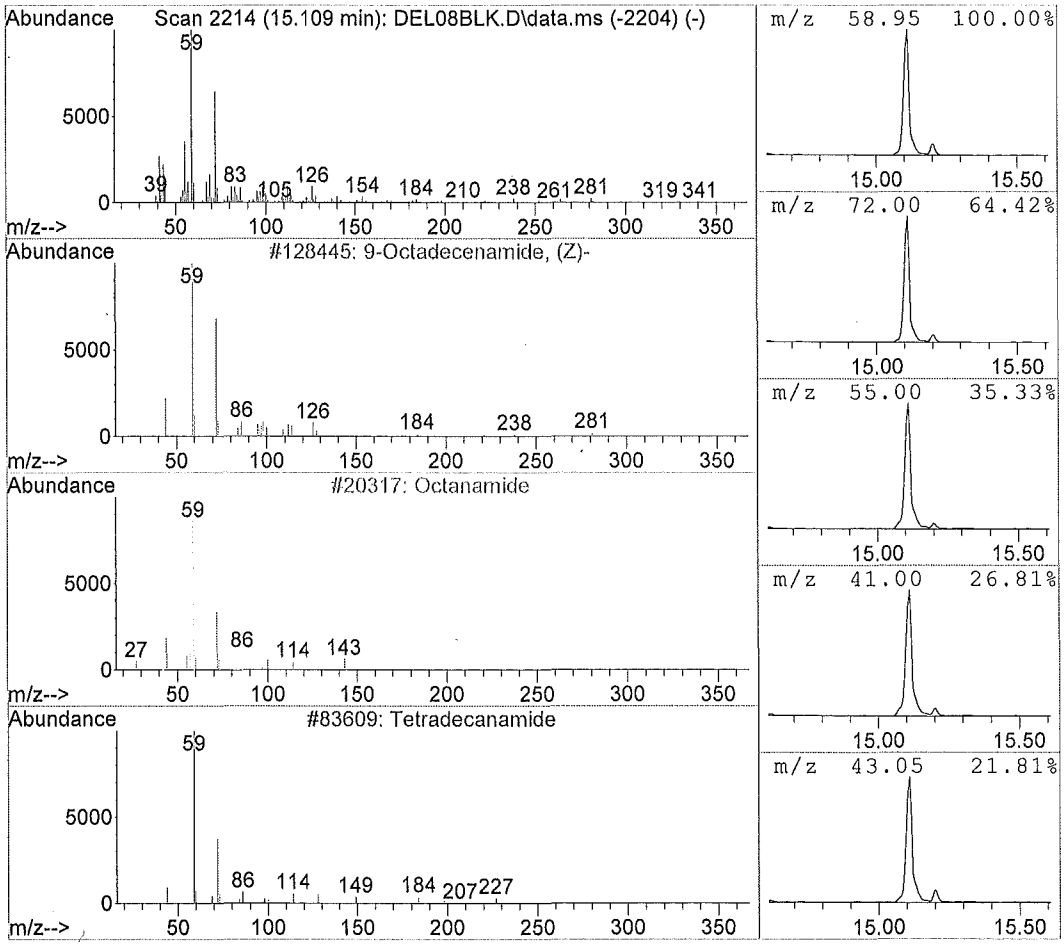


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL08BLK.D Vial: 7
Acq On : 06/22/2015 16:58 Operator: DJC
Sample : 451431 SBLK31 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.11	70.50 ug/ml	18324418	Chrysene-d12	5198140

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Octanamide	20317	000629-01-6	53.00
3	Tetradecanamide	83609	000638-58-4	50.00
4	Pentanamide, 4-methyl-	7815	001119-29-5	50.00
5	Dodecanamide	60439	001120-16-7	42.00

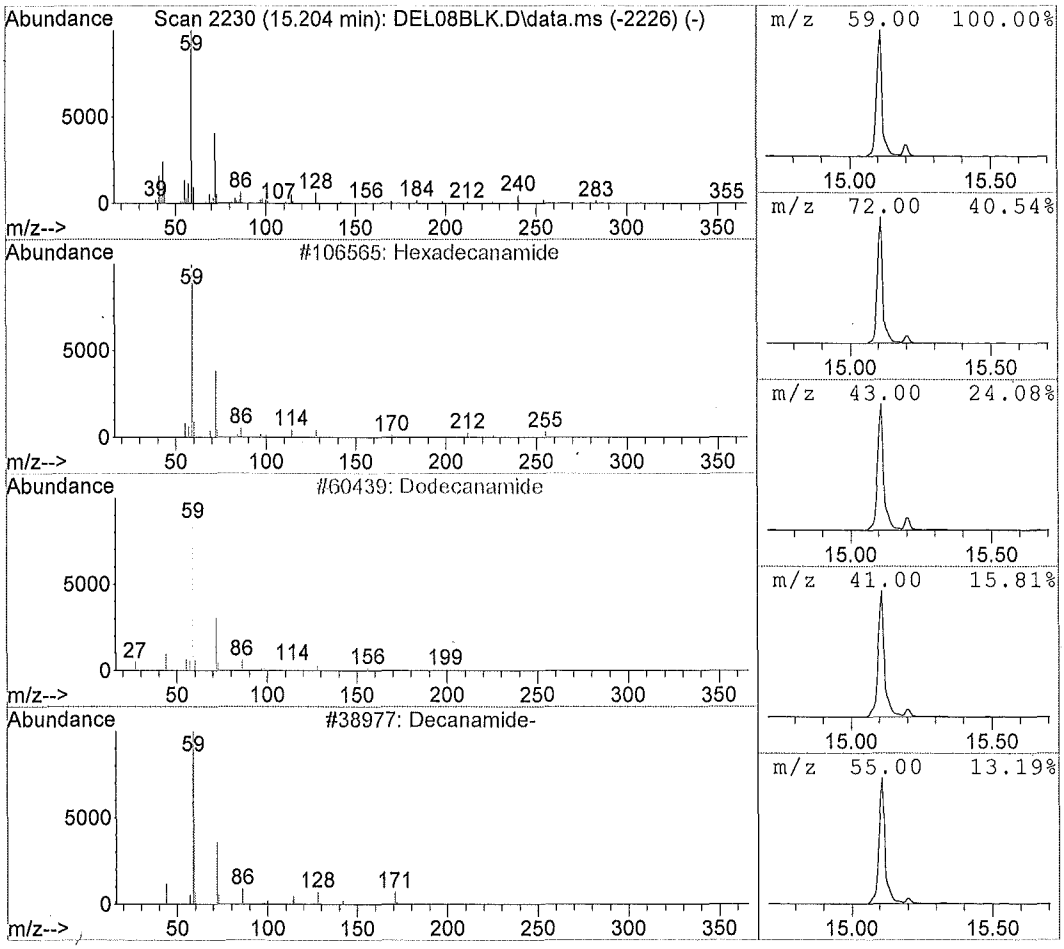


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL08BLK.D Vial: 7
Acq On : 06/22/2015 16:58 Operator: DJC
Sample : 451431 SBLK31 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.20	3.25 ug/ml	843611	Chrysene-d12	5198140

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	93.00
2	Dodecanamide	60439	001120-16-7	86.00
3	Decanamide-	38977	002319-29-1	86.00
4	Tetradecanamide	83609	000638-58-4	86.00
5	Nonadecanamide	142051	058185-32-3	64.00

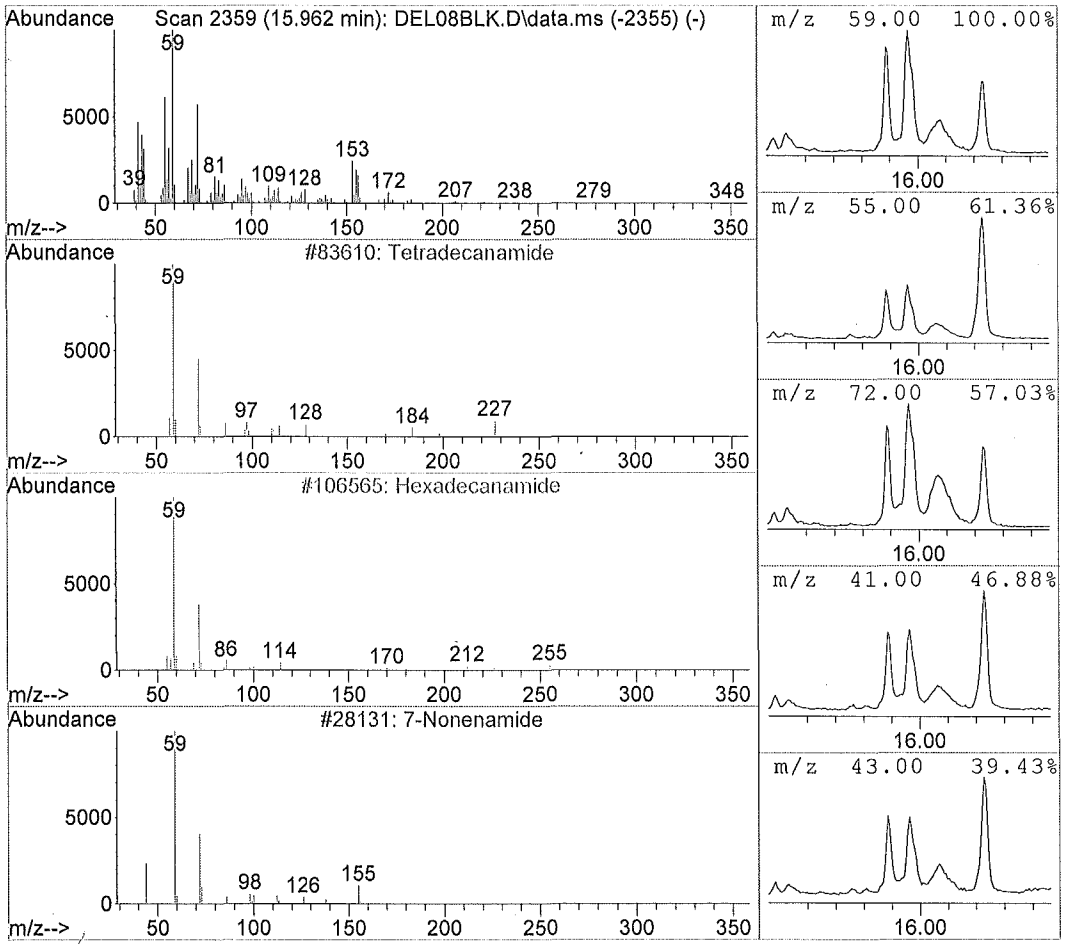


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL08BLK.D Vial: 7
Acq On : 06/22/2015 16:58 Operator: DJC
Sample : 451431 SBLK31 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.96	2.70 ug/ml	701626	Chrysene-d12	5198140

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83610	000638-58-4	50.00
2	Hexadecanamide	106565	000629-54-9	47.00
3	7-Nonenamide	28131	090949-53-4	46.00
4	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	46.00
5	3-Cyclohexylpropionamide	28138	004361-29-9	43.00

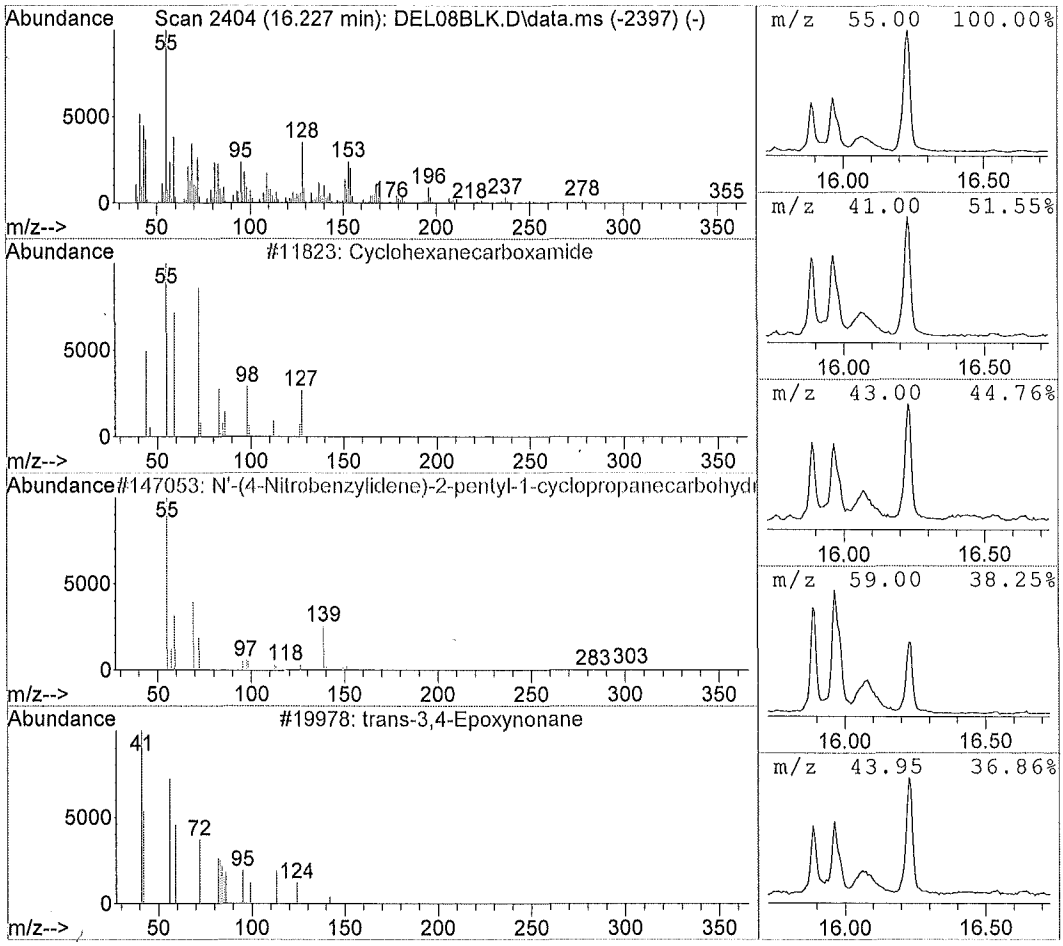


Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL08BLK.D Vial: 7
Acq On : 06/22/2015 16:58 Operator: DJC
Sample : 451431 SBLK31 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.23	3.44 ug/ml	894822	Chrysene-d12	5198140

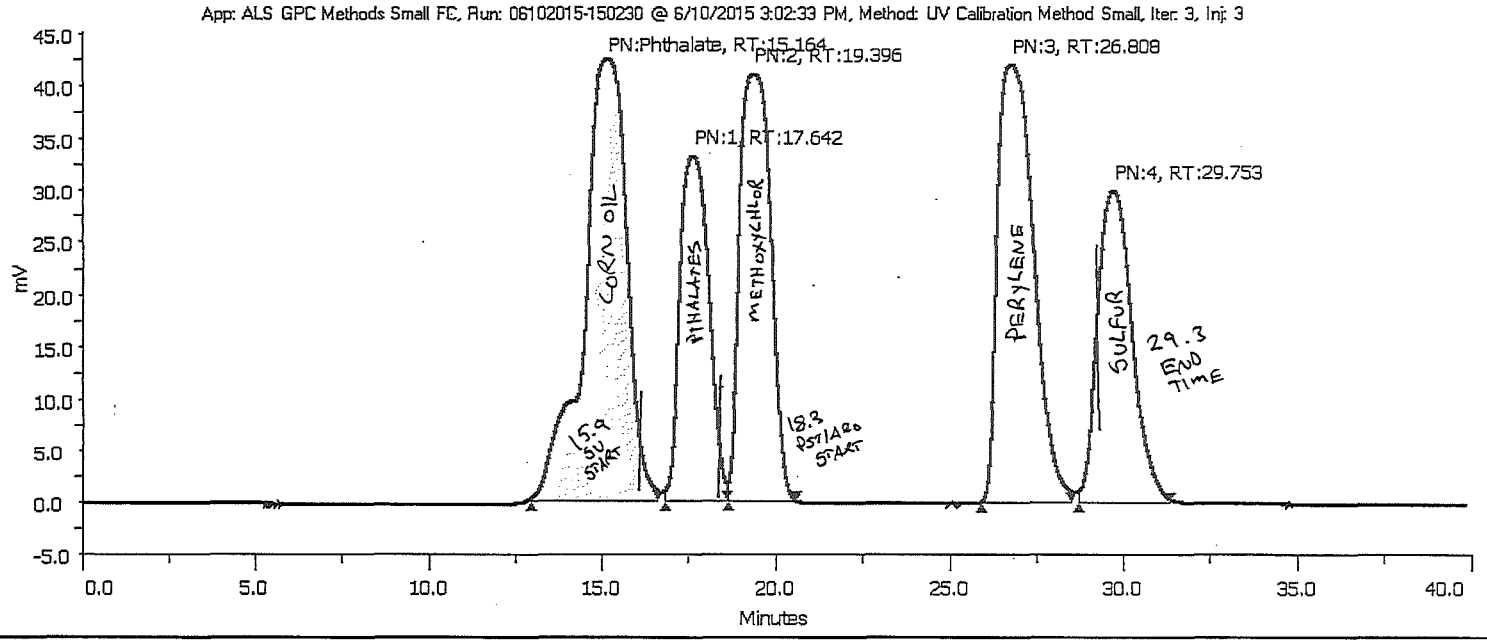
Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexanecarboxamide	11823	001122-56-1	22.00
2	N'-(4-Nitrobenzylidene)-2-pentyl-1-	147053	339027-09-7	16.00
3	trans-3,4-Epoxynonane	19978	056769-23-4	12.00
4	N-(3-Methyl-2,5-dioxo-imidazolidin-	39190	1000287-36-8	10.00
5	4-Pentenoic acid, methyl ester	7248	000818-57-5	10.00



Graph

Sample Name	GPC Weekly
Application Name	ALS GPC Methods Small FC (Administrator)
Method Name	UV Calibration Method Small
Configuration Name	GPC System With Detector
Version	4
Data Instrument Name	112 Detector Signal
Data Channel Name	254nm
Notes	
Injection Number	3

GPC 7 TRACE
Somo 1.2/2.2
6/10/15
Lyle Edwards
STD # 195WS38823



Sample Table

Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC Weekly	Sample Zone->1	Phthalate	12.939	15.164	6021517.5	42.2	0	90.823
3	GPC Weekly	Sample Zone->1	1	16.814	17.642	3196148.3333	33.05	90.823	93.428
3	GPC Weekly	Sample Zone->1	2	18.631	19.396	4258098.3333	40.89	93.428	335.749
3	GPC Weekly	Sample Zone->1	3	25.947	26.808	5054345	41.89	335.749	115.826
3	GPC Weekly	Sample Zone->1	4	28.727	29.753	3472572.0833	29.89	115.826	0

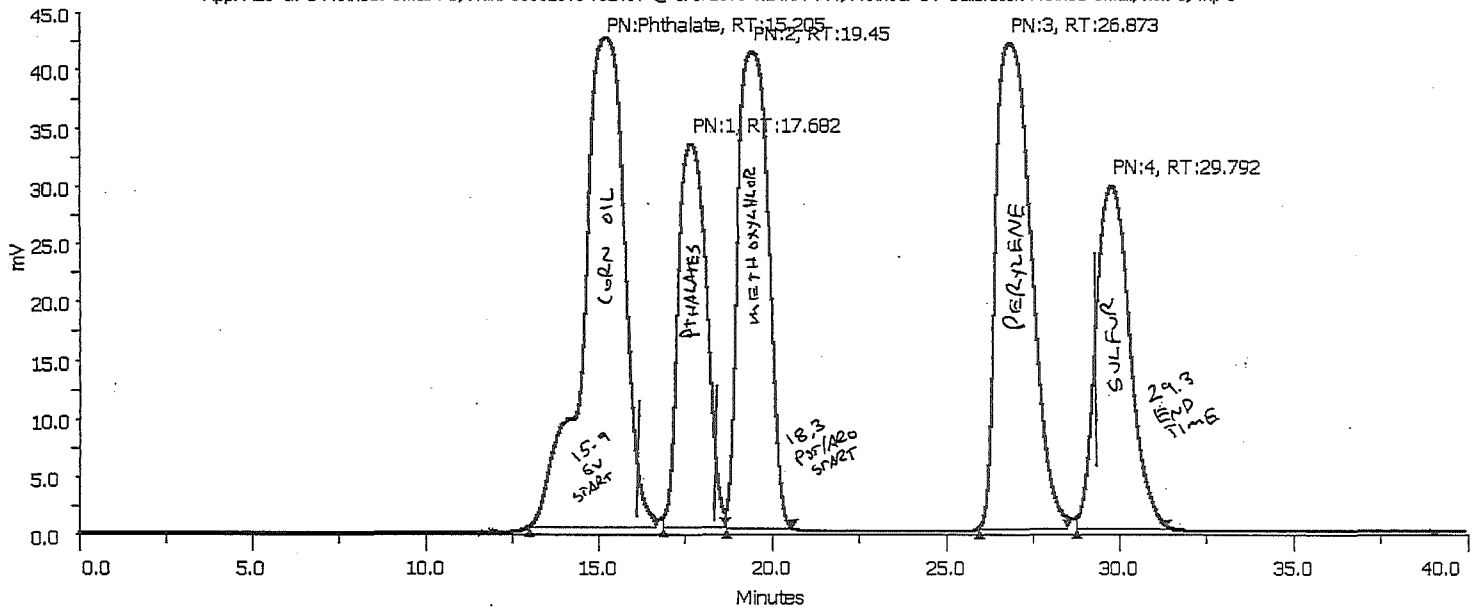
Run Variables

Graph

Sample Name	GPC Weekly
Application Name	ALS GPC Methods Small FC (Administrator)
Method Name	UV Calibration Method Small
Configuration Name	GPC System With Detector
Version	4
Data Instrument Name	112 Detector Signal
Data Channel Name	254nm
Notes	
Injection Number	3

GPC 7 TRACE
Somo 1.2/2.2
6/3/15
STD # 195WS38823

App: ALS GPC Methods Small FC, Run: 06032015-132431 @ 6/3/2015 1:24:34 PM, Method: UV Calibration Method Small, Iter: 3, Inj: 3



Sample Table

Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC Weekly	Sample Zone->1	Phthalate	12.986	15.205	5870776.6667	42.15	0	91.224
3	GPC Weekly	Sample Zone->1	1	16.852	17.682	3105954.5833	32.99	91.224	95.006
3	GPC Weekly	Sample Zone->1	2	18.67	19.45	4146383.75	40.92	95.006	332.264
3	GPC Weekly	Sample Zone->1	3	25.958	26.873	4912102.5	41.75	332.264	113.425
3	GPC Weekly	Sample Zone->1	4	28.773	29.792	3353368.75	29.54	113.425	0

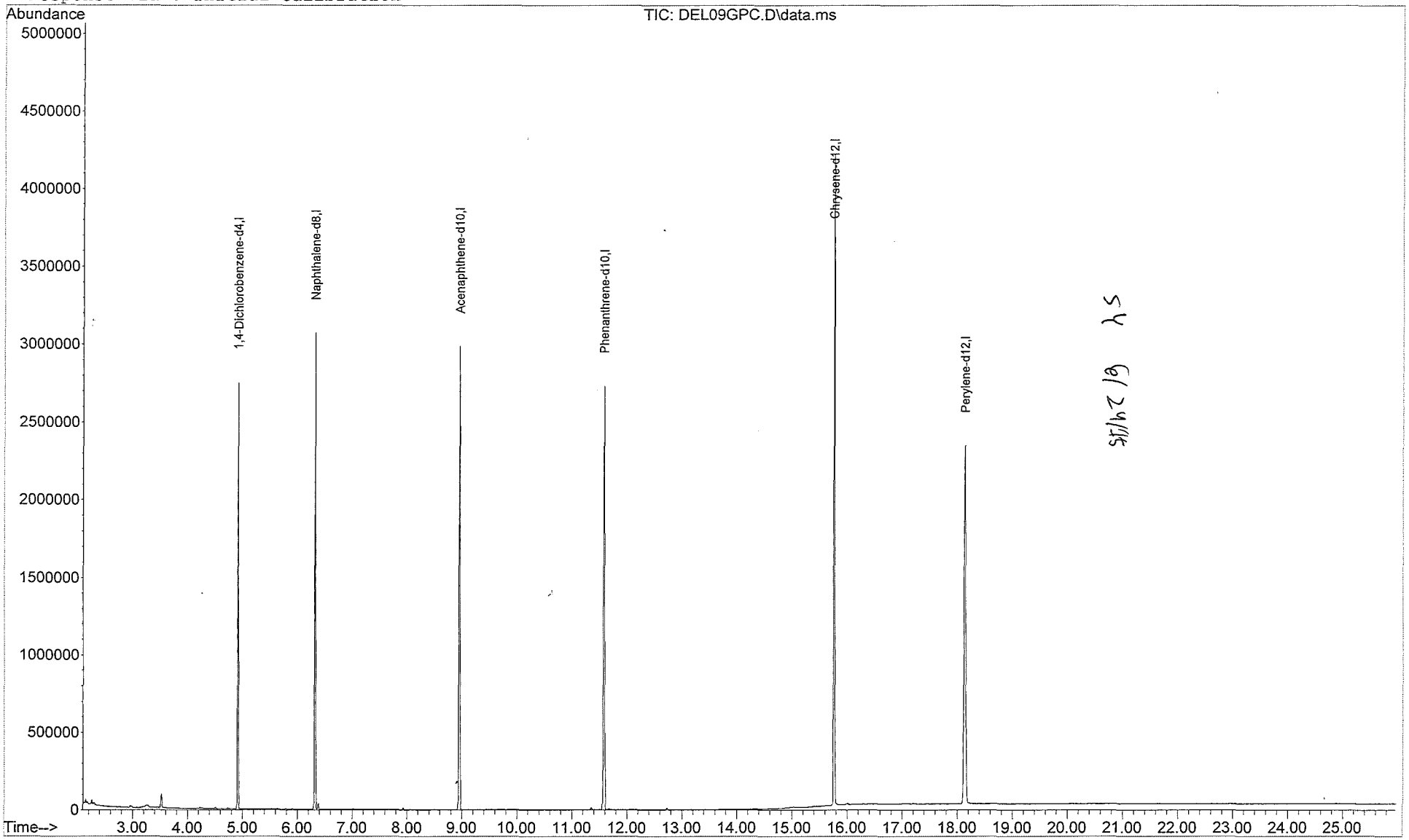
Run Variables

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL09GPC.D Vial: 8
Acq On : 06/22/2015 17:33 Operator: DJC
Sample : 451917 GBLK17 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 24 12:08:00 2015 Results File: DSOM01D6.RES

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 23 08:43:28 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL09GPC.D Vial: 8
Acq On : 06/22/2015 17:33 Operator: DJC
Sample : 451917 GBLK17 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 24 12:08:00 2015 Results File: DSOM01D6.RES

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 23 08:43:28 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.91	152	427502	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1551949	20.00 ug/ml
33) Acenaphthene-d10	8.95	164	952949	20.00 ug/ml
59) Phenanthrene-d10	11.57	188	1595938	20.00 ug/ml
73) Chrysene-d12	15.76	240	1923897	20.00 ug/ml
81) Perylene-d12	18.13	264	1829275	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	0.00	99	0	0.000ug/ml
6) bis-(2-chloroethyl)ether-d	0.00	67	0	0.000ug/mL
7) 2-Chlorophenol-d4	0.00	132	0	0.000ug/ml
13) 4-Methylphenol-d8	0.00	113	0	0.000ug/mL
17) Nitrobenzene-d5	0.00	128	0	0.000ug/ml
21) 2-Nitrophenol-d4	5.79	143	1750	0.120ug/mL
25) 2,4-Dichlorophenol-d3	0.00	165	0	0.000ug/mL
28) 4-Chloroaniline-d4	0.00	131	0	0.000ug/mL
42) Dimethylphthalate-d6	0.00	166	0	0.000ug/mL
45) Acenaphthylene-d8	0.00	160	0	0.000ug/mL
50) 4-Nitrophenol-d4	0.00	143	0	0.000ug/mL
57) Fluorene-d10	9.85	176	347	0.007ug/mL
61) 4,6-Dinitro-2-methylphenol	0.00	200	0	0.000ug/mL
69) Anthracene-d10	0.00	188	0	0.000ug/mL
75) Pyrene-d10	14.08	212	86	0.001ug/mL
86) Benzo(a)pyrene-d12	0.00	264	0	0.000ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\22JUN15\DEL09GPC.D Vial: 8
Acq On : 06/22/2015 17:33 Operator: DJC
Sample : 451917 GBLK17 Inst : 5975-D
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 24 12:08:00 2015 Results File: DSOM01D6.RES

Method : R:\D\METHODS\DSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 23 08:43:28 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) Acenaphthylene	0.00	152		Not Detected	
46) 3-Nitroaniline	0.00	138		Not Detected	
47) Acenaphthene	0.00	153		Not Detected	
48) 2,4-Dinitrophenol	0.00	184		Not Detected	
49) 4-Nitrophenol	0.00	109		Not Detected	
51) Dibenzofuran	0.00	168		Not Detected	
52) 2,4-Dinitrotoluene	0.00	165		Not Detected	
53) 2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54) Diethylphthalate	0.00	149		Not Detected	
55) 4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56) Fluorene	0.00	166		Not Detected	
58) 4-Nitroaniline	0.00	138		Not Detected	
60) 4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62) N-Nitrosodiphenylamine	0.00	169		Not Detected	
63) 4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64) Hexachlorobenzene	0.00	284		Not Detected	
65) Atrazine	0.00	200		Not Detected	
66) Pentachlorophenol	0.00	266		Not Detected	
67) Phenanthrene	0.00	178		Not Detected	
68) Anthracene	0.00	178		Not Detected	
70) Carbazole	0.00	167		Not Detected	
71) Di-n-butylphthalate	0.00	149		Not Detected	
72) Fluoranthene	0.00	202		Not Detected	
74) Pyrene	0.00	202		Not Detected	
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	0.00	228		Not Detected	
79) Chrysene	0.00	228		Not Detected	
80) Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	0.00	252		Not Detected	
84) Benzo(k)fluoranthene	0.00	252		Not Detected	
85) Benzo(a)pyrene	0.00	252		Not Detected	
87) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89) Benzo(g,h,i)perylene	0.00	276		Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

01074

2M - FORM II SV-SIM2

SOIL SEMIVOLATILE SIM DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

	EPA SAMPLE NO.	SDMC17 (FLN) #	SDMC18 (2MN) #	TOT OUT
01	F9K00	63	59	0
02	F9M82	72	68	0
03	F9M83	67	64	0
04	F9M84	82	73	0
05	F9M85	82	83	0
06	F9M86	70	72	0
07	F9M87	77	82	0
08	F9M88	86	81	0
09	F9M89	68	64	0
10	F9M90	81	81	0
11	F9M91	101	97	0
12	F9M92	100	90	0
13	F9M93	96	91	0
14	F9M94	100	100	0
15	F9M95	100	85	0
16	F9M96	94	79	0
17	F9M97	111	99	0
18	F9M98	101	87	0
19	F9M99	86	74	0
20	SBLK31	98	58	0
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted out

4D - FORM IV SV-SIM
SEMIVOLATILE SIM METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK31

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab File ID: DEP42BLK Lab Sample ID: 451431

Instrument ID: 5975-D Date Extracted: 06/15/2015

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 06/24/2015

Time Analyzed: 12:02 Extraction: (Type) SONC GPC Cleanup: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	F9K00	1515725001	DEP30F01	06/24/2015
02	F9M82	1515725002	DEP31F02	06/24/2015
03	F9M83	1515725003	DEP32F03	06/24/2015
04	F9M84	1515725004	DEP33F04	06/24/2015
05	F9M85	1515725005	DEP34F05	06/24/2015
06	F9M86	1515725006	DEP35F06	06/24/2015
07	F9M87	1515725007	DEP36F07	06/24/2015
08	F9M88	1515725008	DEP37F08	06/24/2015
09	F9M89	1515725009	DEP38F09	06/24/2015
10	F9M90	1515725010	DEP39F10	06/24/2015
11	F9M91	1515725011	DEP40F11	06/24/2015
12	F9M92	1515725014	DEP41F14	06/24/2015
13	F9M93	1515725015	DEP43F15	06/24/2015
14	F9M94	1515725016	DEP44F16	06/24/2015
15	F9M95	1515725017	DEP45F17	06/24/2015
16	F9M96	1515725018	DEQ02F18	06/25/2015
17	F9M97	1515725019	DEQ06F19	06/25/2015
18	F9M98	1515725020	DEQ04F20	06/25/2015
19	F9M99	1515725021	DEQ05F21	06/25/2015
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

5B - FORM V SV
SEMIVOLATILE ORGANIC SIM INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.: SSTD0.1DG

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab File ID: DDG01SP1 DFTPP Injection Date: 03/25/2015

Instrument ID: 5975-D DFTPP Injection Time: 09:26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
	DFTPP is not required for SIM analysis	

1 - Value is %mass 69 2 - Value is %mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0.1DG	SSTD0.1DG	DDG01SP1	03/25/2015	09:26
02	SSTD0.2DG	SSTD0.2DG	DDG02SP2	03/25/2015	09:55
03	SSTD0.4DG	SSTD0.4DG	DDG03SP4	03/25/2015	10:25
04	SSTD0.8DG	SSTD0.8DG	DDG04SP8	03/25/2015	10:55
05	SSTD001DG	SSTD001DG	DDG05S01	03/25/2015	11:25
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					

5B - FORM V SV

SEMIVOLATILE ORGANIC SIM INSTRUMENT PERFORMANCE CHECK DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.: SSTD0.4P3

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab File ID: DEP26SP4 DFTPP Injection Date: 06/24/2015

Instrument ID: 5975-D DFTPP Injection Time: 04:00

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
	DFTPP is not required for SIM analysis	

1 - Value is %mass 69 2 - Value is %mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0.4P3	SSTD0.4P3	DEP26SP4	06/24/2015	04:00
02	F9K00	1515725001	DEP30F01	06/24/2015	06:00
03	F9M82	1515725002	DEP31F02	06/24/2015	06:30
04	F9M83	1515725003	DEP32F03	06/24/2015	07:00
05	F9M84	1515725004	DEP33F04	06/24/2015	07:30
06	F9M85	1515725005	DEP34F05	06/24/2015	08:01
07	F9M86	1515725006	DEP35F06	06/24/2015	08:31
08	F9M87	1515725007	DEP36F07	06/24/2015	09:01
09	F9M88	1515725008	DEP37F08	06/24/2015	09:31
10	F9M89	1515725009	DEP38F09	06/24/2015	10:01
11	F9M90	1515725010	DEP39F10	06/24/2015	10:31
12	F9M91	1515725011	DEP40F11	06/24/2015	11:01
13	F9M92	1515725014	DEP41F14	06/24/2015	11:32
14	SBLK31	451431	DEP42BLK	06/24/2015	12:02
15	F9M93	1515725015	DEP43F15	06/24/2015	12:33
16	F9M94	1515725016	DEP44F16	06/24/2015	13:03
17	F9M95	1515725017	DEP45F17	06/24/2015	13:33
18	SSTD0.4P4	SSTD0.4P4	DEP46SP4	06/24/2015	14:04
19					
20					
21					

5B - FORM V SV
SEMIVOLATILE ORGANIC SIM INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.: SSTD0.4DP

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab File ID: DEQ01SP4 DFTPP Injection Date: 06/25/2015

Instrument ID: 5975-D DFTPP Injection Time: 09:03

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
	DFTPP is not required for SIM analysis	

1 - Value is %mass 69 2 - Value is %mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0.4DP	SSTD0.4DP	DEQ01SP4	06/25/2015	09:03
02	F9M96	1515725018	DEQ02F18	06/25/2015	09:33
03	F9M98	1515725020	DEQ04F20	06/25/2015	10:34
04	F9M99	1515725021	DEQ05F21	06/25/2015	11:04
05	F9M97	1515725019	DEQ06F19	06/25/2015	11:34
06	SSTD0.4P5	SSTD0.4P5	DEQ07SP4	06/25/2015	12:04
07					
08					
09					
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20					
21					

8E - FORM VIII SV-SIM1

SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4P3 Date Analyzed: 06/24/2015

Lab File ID (Standard): DEP26SP4 Time Analyzed: 04:00

Instrument ID: 5975-D

	IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD				162728		5.91		101993		8.55	
	UPPER LIMIT				325456		6.41		203986		9.05	
	LOWER LIMIT				81364		5.41		50997		8.05	
	EPA SAMPLE NO.											
01	F9K00				166267		5.91		117236		8.55	
02	F9M82				150616		5.92		111687		8.55	
03	F9M83				176414		5.92		125502		8.55	
04	F9M84				131519		5.92		94063		8.56	
05	F9M85				138257		5.92		103100		8.55	
06	F9M86				130537		5.92		98559		8.56	
07	F9M87				130936		5.92		97197		8.56	
08	F9M88				166393		5.92		119638		8.56	
09	F9M89				161189		5.92		114842		8.56	
10	F9M90				154699		5.92		114080		8.56	
11	F9M91				148292		5.92		111376		8.56	
12	F9M92				135883		5.92		98027		8.56	
13	SBLK31				156143		5.92		108763		8.56	
14	F9M93				163565		5.92		117895		8.56	
15	F9M94				133422		5.92		103211		8.56	
16	F9M95				143802		5.92		105997		8.56	
17												
18												
19												
20												
21												
22												

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8F - FORM VIII SV-SIM2

SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

EPA Sample No.(SSTD0.4##): SSTD0.4P3 Date Analyzed: 06/24/2015

Lab File ID (Standard): DEP26SP4 Time Analyzed: 04:00

Instrument ID: 5975-D GC Column: DB5MS ID: 0.32 (mm)

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	180329		11.18		199555		15.36		203736		17.73	
	UPPER LIMIT	360658		11.68		399110		15.86		407472		18.23	
	LOWER LIMIT	90165		10.68		99778		14.86		101868		17.23	
	EPA SAMPLE NO.												
01	F9K00	200756		11.17		220553		15.36		238851		17.73	
02	F9M82	198399		11.18		221967		15.36		238390		17.73	
03	F9M83	212771		11.18		235765		15.36		251415		17.74	
04	F9M84	157073		11.18		174482		15.36		186600		17.74	
05	F9M85	175105		11.18		210610		15.36		191404		17.75	
06	F9M86	169709		11.18		202192		15.36		192645		17.75	
07	F9M87	169376		11.18		193479		15.36		189458		17.75	
08	F9M88	199699		11.18		239143		15.36		229116		17.75	
09	F9M89	197700		11.18		230847		15.37		227423		17.75	
10	F9M90	195771		11.18		230646		15.36		227118		17.75	
11	F9M91	191602		11.18		225825		15.37		221020		17.75	
12	F9M92	161957		11.18		192610		15.37		185936		17.75	
13	SBLK31	184737		11.18		214000		15.37		220704		17.75	
14	F9M93	194027		11.18		225772		15.37		214895		17.76	
15	F9M94	179859		11.18		213662		15.37		200829		17.75	
16	F9M95	177078		11.18		219835		15.37		211548		17.76	
17													
18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8E - FORM VIII SV-SIM1

SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4DP Date Analyzed: 06/25/2015

Lab File ID (Standard): DEQ01SP4 Time Analyzed: 09:03

Instrument ID: 5975-D

	IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD				165765		5.90		99303		8.54	
	UPPER LIMIT				331530		6.40		198606		9.04	
	LOWER LIMIT				82883		5.40		49652		8.04	
	EPA SAMPLE NO.											
01	F9M96				110978		5.90		77448		8.53	
02	F9M98				104847		5.90		75109		8.54	
03	F9M99				125485		5.90		87630		8.54	
04	F9M97				96020		5.90		67030		8.54	
05												
06												
07												
08												
09												
10												
11												
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15												
16												
17												
18												
19												
20												
21												
22												

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8F - FORM VIII SV-SIM2

SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

EPA Sample No.(SSTD0.4##): SSTD0.4DP Date Analyzed: 06/25/2015

Lab File ID (Standard): DEQ01SP4 Time Analyzed: 09:03

Instrument ID: 5975-D GC Column: DB5MS ID: 0.32 (mm)

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	176751		11.16		194813		15.35		186496		17.71	
	UPPER LIMIT	353502		11.66		389626		15.85		372992		18.21	
	LOWER LIMIT	88376		10.66		97407		14.85		93248		17.21	
	EPA SAMPLE NO.												
01	F9M96	125676		11.16		133118		15.34		150014		17.71	
02	F9M98	121792		11.16		129718		15.34		140432		17.71	
03	F9M99	144495		11.16		155105		15.35		169078		17.71	
04	F9M97	126088		11.16		144516		15.34		154715		17.70	
05													
06													
07													
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18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9K00

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725001

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DEP30F01

Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 6.8 Dilution Factor: 1.0

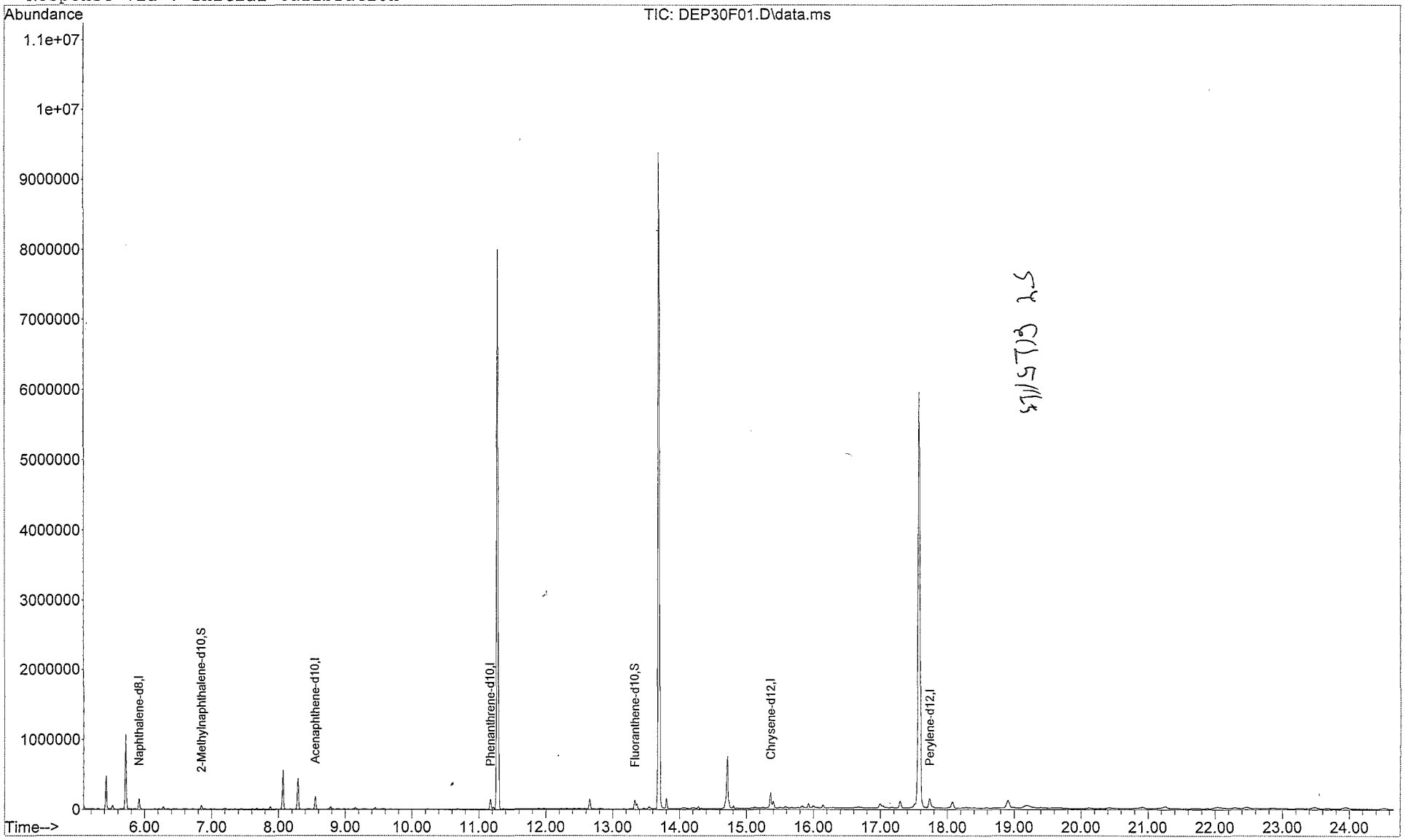
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.8	U
91-57-6	2-Methylnaphthalene	3.8	U
208-96-8	Acenaphthylene	3.8	U
83-32-9	Acenaphthene	3.8	U
86-73-7	Fluorene	3.8	U
87-86-5	Pentachlorophenol	7.6	U
85-01-8	Phenanthrene	1.8	J
120-12-7	Anthracene	3.8	U
206-44-0	Fluoranthene	3.2	J
129-00-0	Pyrene	4.3	
56-55-3	Benzo(a)anthracene	2.1	J
218-01-9	Chrysene	3.3	J
205-99-2	Benzo(b)fluoranthene	4.2	
207-08-9	Benzo(k)fluoranthene	0.98	J
50-32-8	Benzo(a)pyrene	1.9	J
193-39-5	Indeno(1,2,3-cd)pyrene	2.4	J
53-70-3	Dibenzo(a,h)anthracene	3.8	U
191-24-2	Benzo(g,h,i)perylene	2.2	J

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP30F01.D Vial: 27
Acq On : 06/24/2015 06:00 Operator: DJC
Sample : 1515725001 F9K00 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 25 10:30:31 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

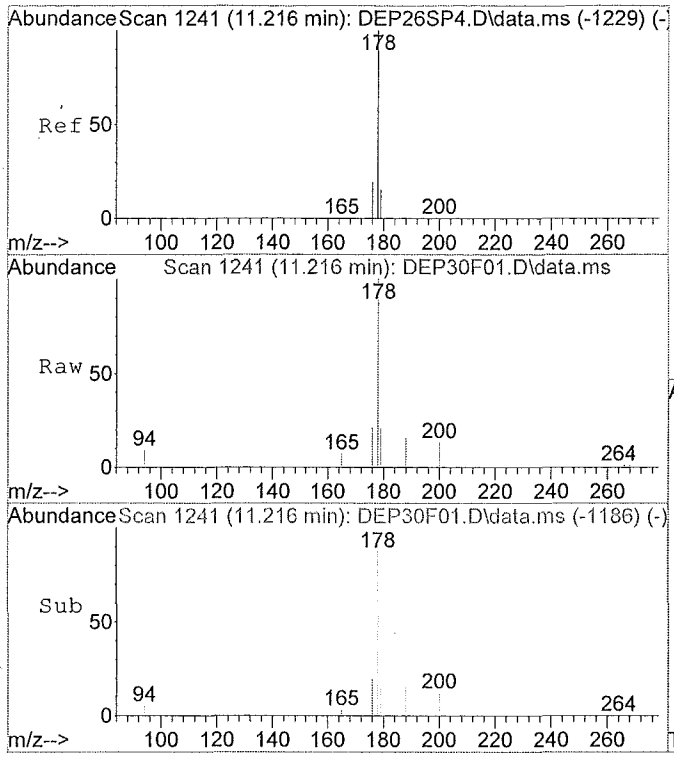
Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP30F01.D Vial: 27
Acq On : 06/24/2015 06:00 Operator: DJC
Sample : 1515725001 F9K00 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 10:30:31 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		
1) Naphthalene-d8	5.91	136	166267	0.40 ug/ml		
5) Acenaphthene-d10	8.55	164	117236	0.40 ug/ml		
9) Phenanthrene-d10	11.17	188	200756	0.40 ug/ml		
15) Chrysene-d12	15.36	240	220553	0.40 ug/ml		
19) Perylene-d12	17.73	264	238851	0.40 ug/ml		
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	6.85	152	63106	0.235ug/mL		
13) Fluoranthene-d10	13.33	212	138831	0.253ug/mL		
Target Compounds					Qvalue	
2) Naphthalene	0.00	128		Not Detected		
4) 2-Methylnaphthalene	0.00	142		Not Detected		
6) Acenaphthylene	0.00	152		Not Detected		
7) Acenaphthene	0.00	153		Not Detected		
8) Fluorene	0.00	166		Not Detected		
10) Pentachlorophenol	0.00	266		Not Detected		
11) Phenanthrene	11.22	178	27707	0.048ug/ml	96	
12) Anthracene	0.00	178		Not Detected		
14) Fluoranthene	13.36	202	54788	0.083ug/ml	75	
16) Pyrene	13.71	202	77576	0.112ug/ml	1	
17) Benzo(a)anthracene	15.35	228	33256	0.057ug/ml	87	
18) Chrysene	15.39	228	54158	0.087ug/ml	92	
20) Benzo(b)fluoranthene	16.99	252	81773	0.110ug/ml	99	
21) Benzo(k)fluoranthene	17.04	252	19874	0.026ug/ml m	98	6.25.15
22) Benzo(a)pyrene	17.62	252	35858	0.050ug/ml	84	
23) Indeno(1,2,3-c,d)pyrene	20.42	276	39862	0.064ug/ml	100	
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected		
25) Benzo(g,h,i)perylene	21.26	276	40726	0.058ug/ml	17	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

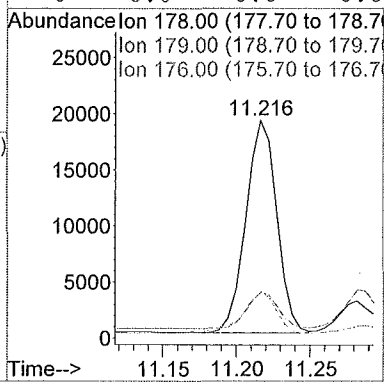
01990

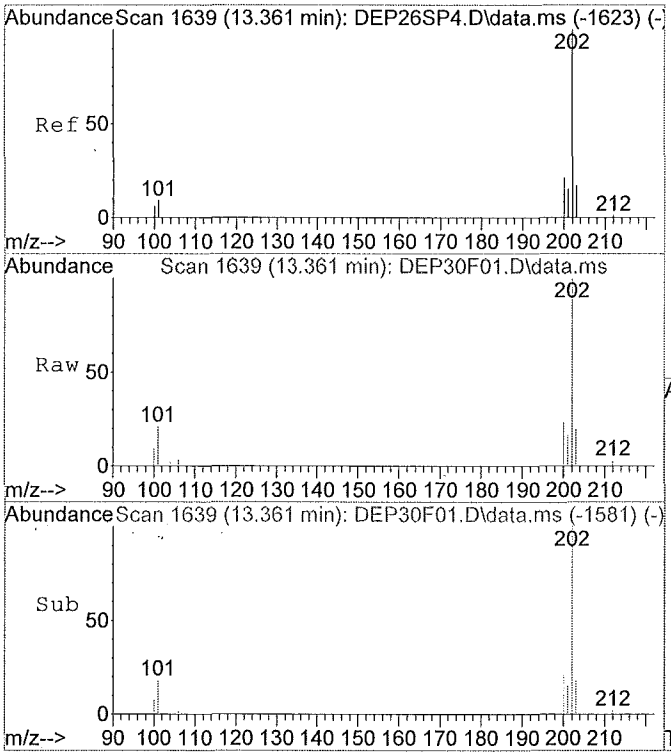


#11
Phenanthrene
Concen: 0.05 ug/ml
RT: 11.22 min Scan# 1241
Delta R.T. 0.00 min
Lab File: DEP30F01.D
Acq: 06/24/2015 06:00

Tgt Ion:178 Resp: 27707

Ion	Ratio	Lower	Upper
178	100		
179	16.9	11.1	20.5
176	22.6	14.1	26.1
0	0.0	0.0	0.0

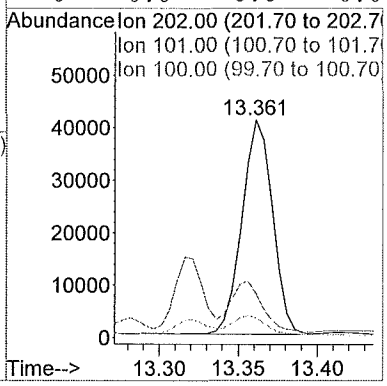


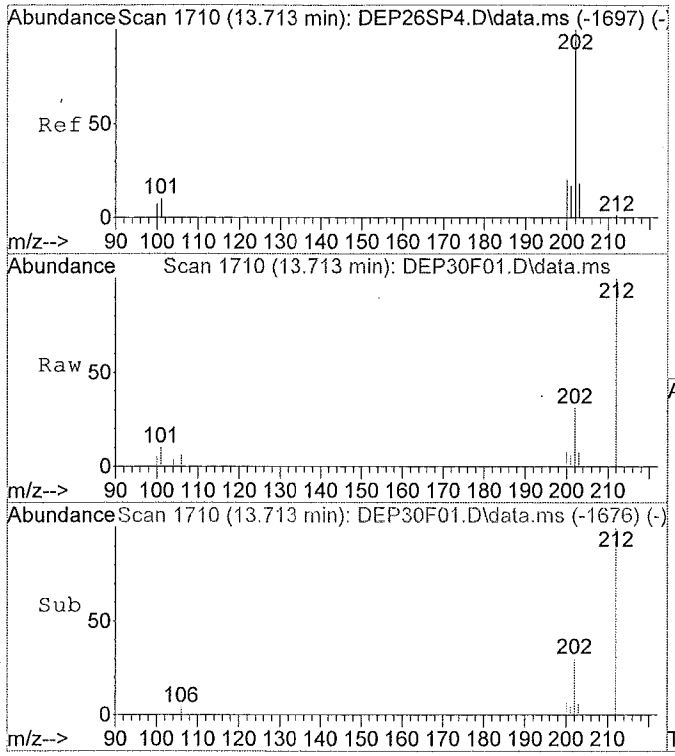


#14
Fluoranthene
Concen: 0.08 ug/ml
RT: 13.36 min Scan# 1639
Delta R.T. 0.00 min
Lab File: DEP30F01.D
Acq: 06/24/2015 06:00

Tgt Ion:202 Resp: 54788

Ion	Ratio	Lower	Upper
202	100		
101	23.7	9.4	17.6#
100	10.5	0.0	0.0#
0	0.0	0.0	0.0

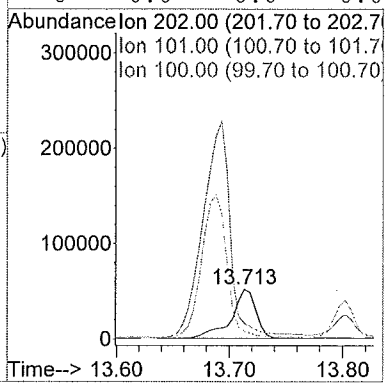


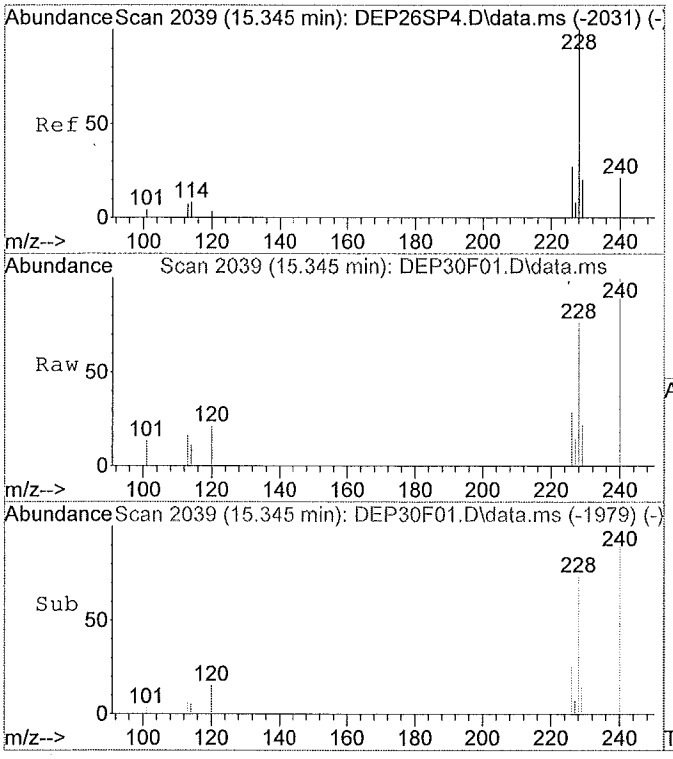


#16
Pyrene
Concen: 0.11 ug/ml
RT: 13.71 min Scan# 1710
Delta R.T. 0.00 min
Lab File: DEP30F01.D
Acq: 06/24/2015 06:00

Tgt Ion:202 Resp: 77576

Ion	Ratio	Lower	Upper
202	100		
101	490.5	10.6	19.6#
100	302.3	9.4	17.4#
0	0.0	0.0	0.0

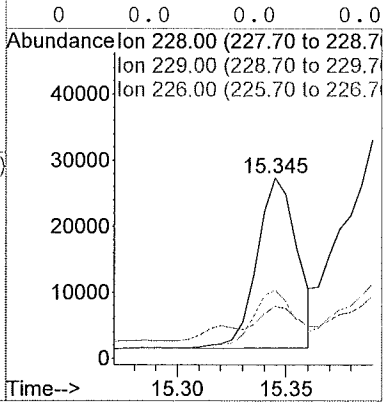


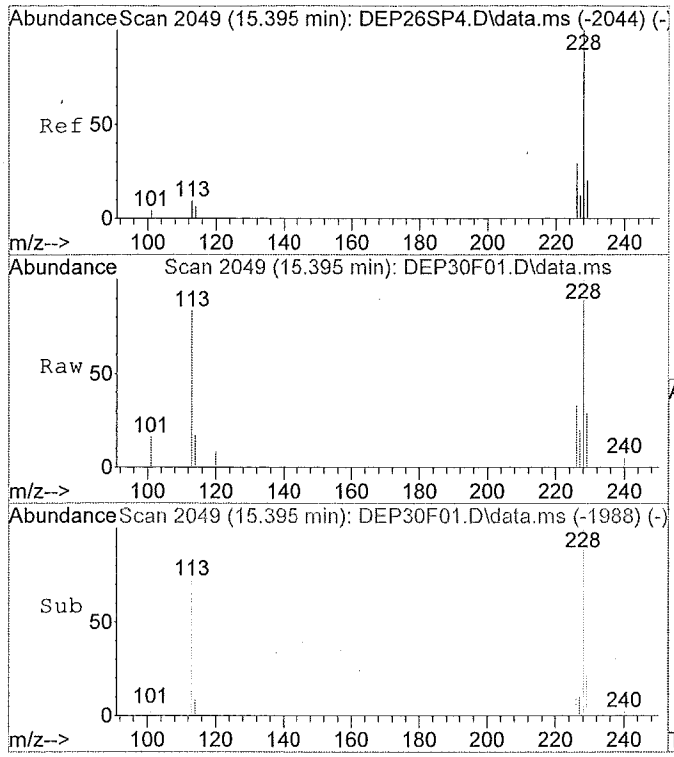


#17
Benzo(a)anthracene
Concen: 0.06 ug/ml
RT: 15.35 min Scan# 2039
Delta R.T. 0.00 min
Lab File: DEP30F01.D
Acq: 06/24/2015 06:00

Tgt Ion:228 Resp: 33256

Ion	Ratio	Lower	Upper
228	100		
229	22.9	14.5	26.9
226	36.7	18.5	34.3#
0	0.0	0.0	0.0

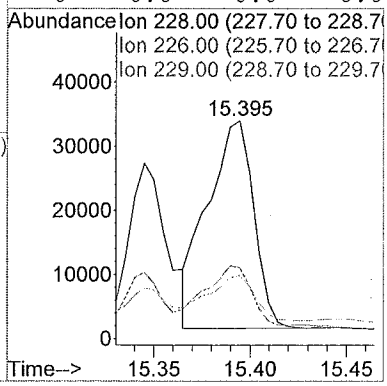


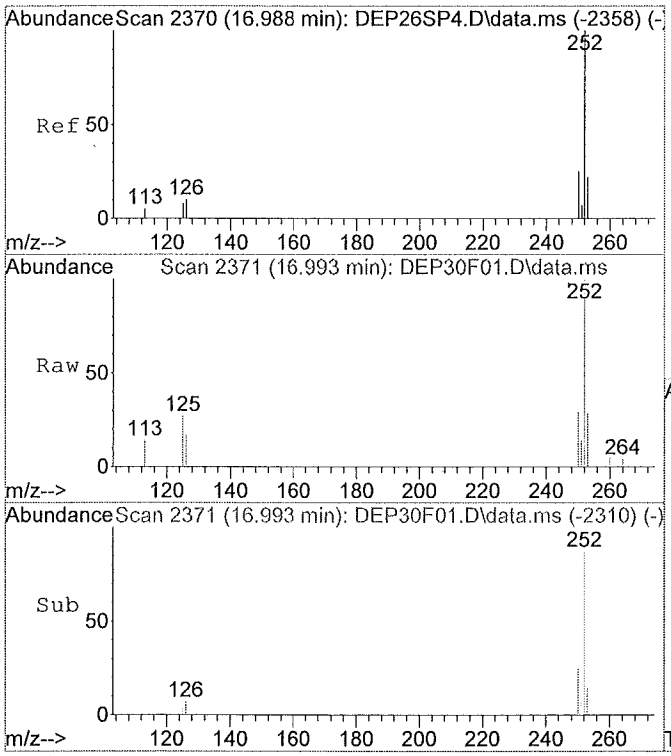


#18
Chrysene
Concen: 0.09 ug/ml
RT: 15.39 min Scan# 2049
Delta R.T. 0.00 min
Lab File: DEP30F01.D
Acq: 06/24/2015 06:00

Tgt Ion:228 Resp: 54158

Ion	Ratio	Lower	Upper
228	100		
226	33.5	19.7	36.7
229	23.2	14.5	26.9
0	0.0	0.0	0.0

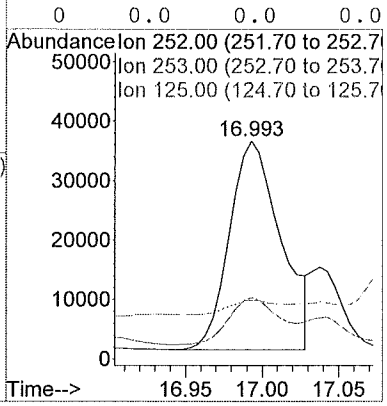


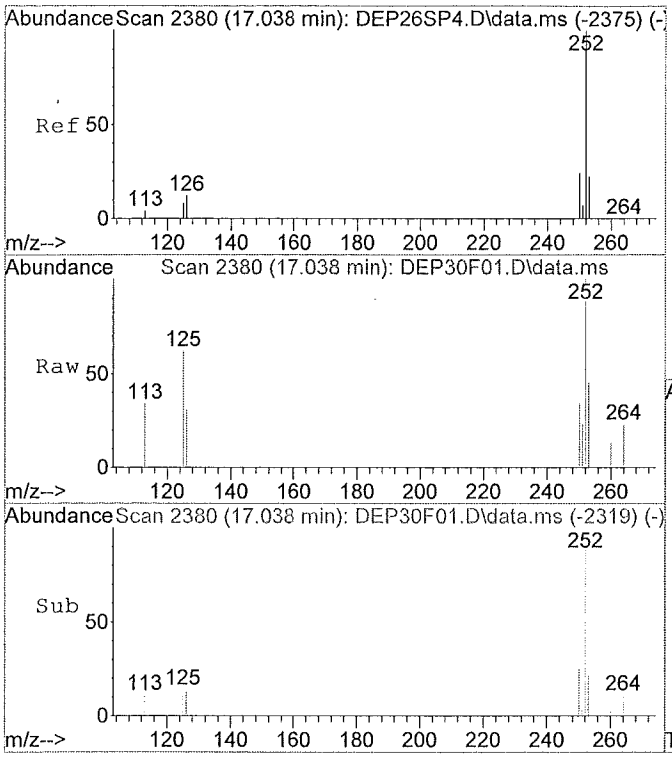


#20
Benzo(b)fluoranthene
Concen: 0.11 ug/ml
RT: 16.99 min Scan# 2371
Delta R.T. 0.01 min
Lab File: DEP30F01.D
Acq: 06/24/2015 06:00

Tgt Ion:252 Resp: 81773

Ion	Ratio	Lower	Upper
252	100		
253	22.5	15.3	28.3
125	7.1	0.0	0.0#
0	0.0	0.0	0.0

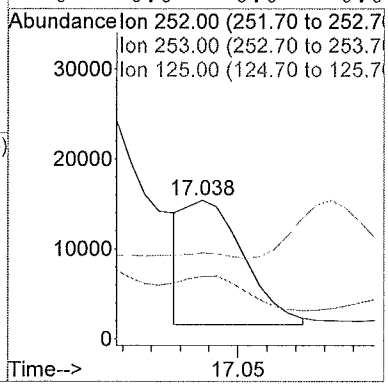


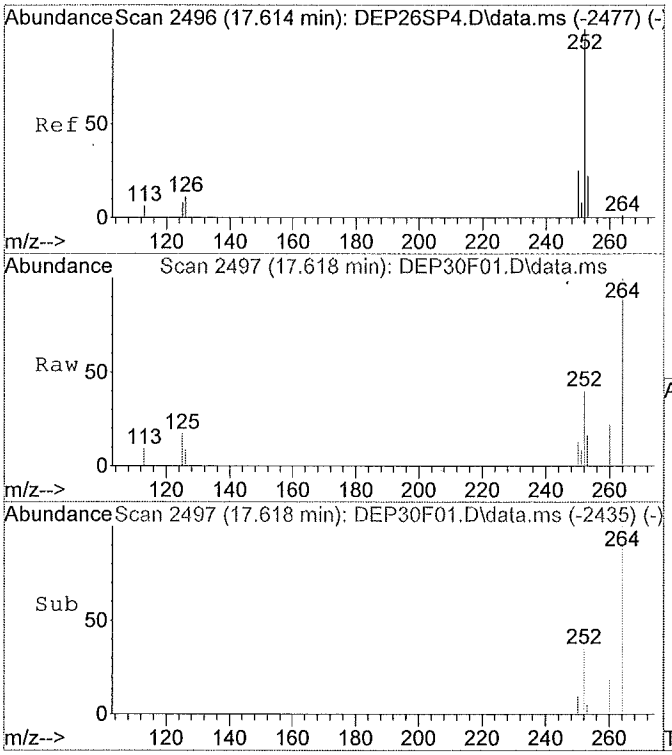


#21
Benzo(k)fluoranthene
Concen: 0.03 ug/ml m
RT: 17.04 min Scan# 2380
Delta R.T. 0.00 min
Lab File: DEP30F01.D
Acq: 06/24/2015 06:00

Tgt Ion:252 Resp: 19874

Ion	Ratio	Lower	Upper
252	100		
253	92.5	15.0	27.8#
125	29.2	0.0	0.0#
0	0.0	0.0	0.0

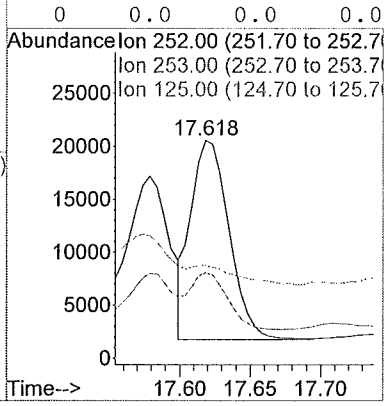


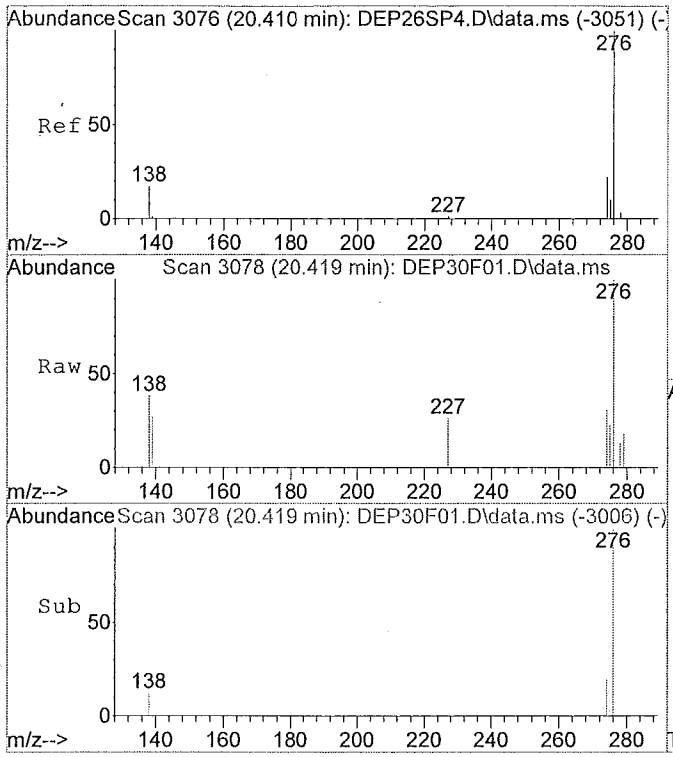


#22
Benzo(a)pyrene
Concen: 0.05 ug/ml
RT: 17.62 min Scan# 2497
Delta R.T. 0.01 min
Lab File: DEP30F01.D
Acq: 06/24/2015 06:00

Tgt Ion:252 Resp: 35858

Ion	Ratio	Lower	Upper
252	100		
253	29.2	15.0	27.8#
125	0.0	0.0	0.0
0	0.0	0.0	0.0

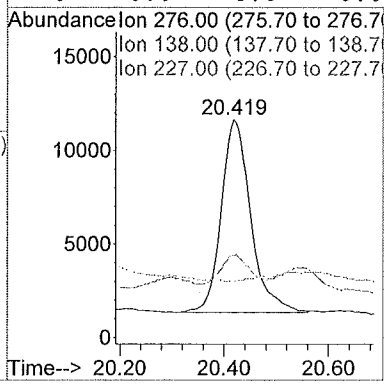


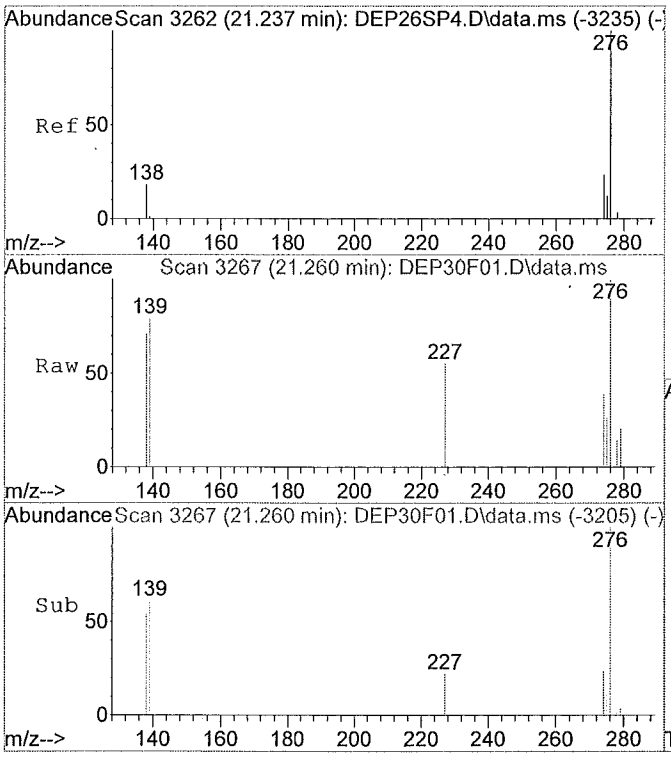


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.06 ug/ml
RT: 20.42 min Scan# 3078
Delta R.T. 0.02 min
Lab File: DEP30F01.D
Acq: 06/24/2015 06:00

Tgt Ion:276 Resp: 39862

Ion	Ratio	Lower	Upper
276	100		
138	13.8	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

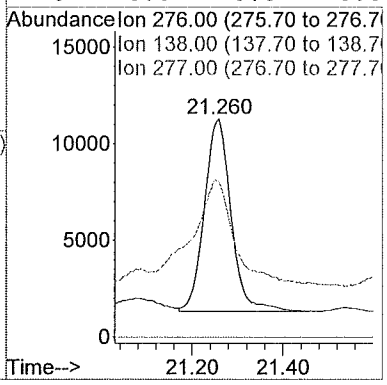




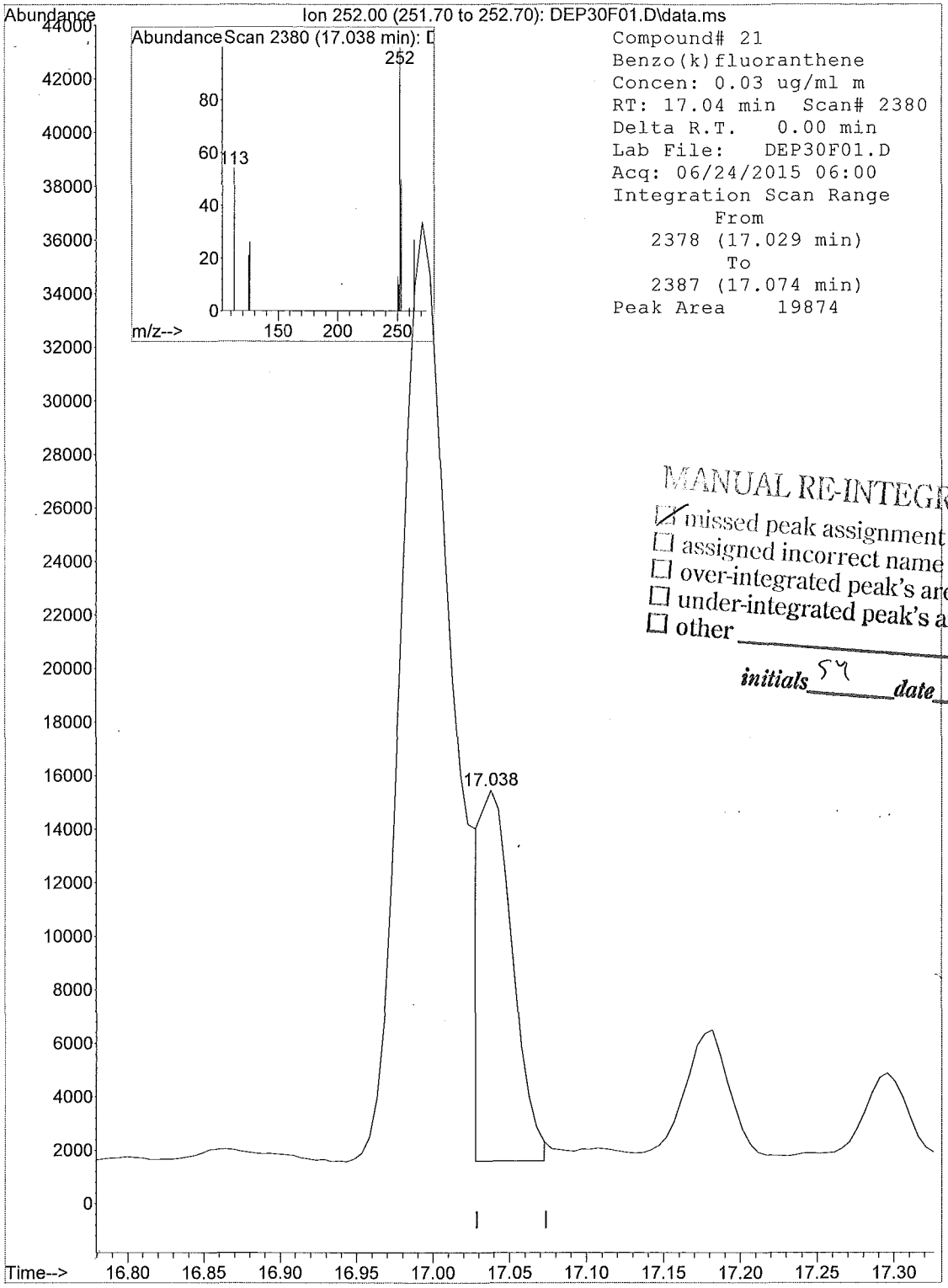
#25
Benzo(g,h,i)perylene
Concen: 0.06 ug/ml
RT: 21.26 min Scan# 3267
Delta R.T. 0.04 min
Lab File: DEP30F01.D
Acq: 06/24/2015 06:00

Tgt Ion:276 Resp: 40726

Ion	Ratio	Lower	Upper
276	100		
138	80.2	16.2	30.0#
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

☑ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

initials SY *date* 6/25/15

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M82

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725002

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DEP31F02

Extraction: (Type) SONC

% Moisture: 20. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0

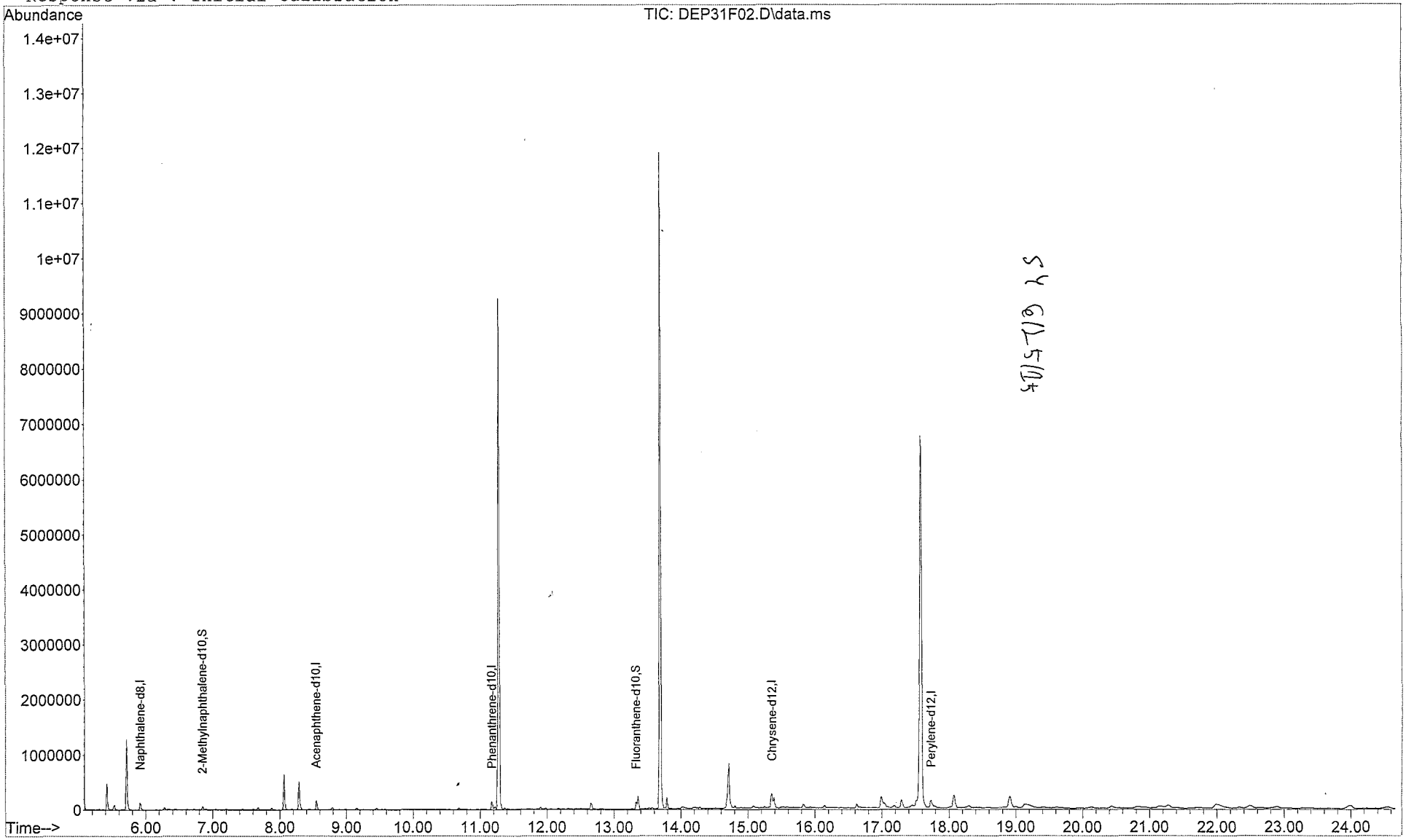
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	4.1	U
91-57-6	2-Methylnaphthalene	0.98	J
208-96-8	Acenaphthylene	2.9	J
83-32-9	Acenaphthene	4.1	U
86-73-7	Fluorene	4.1	U
87-86-5	Pentachlorophenol	8.2	U
85-01-8	Phenanthrene	3.1	J
120-12-7	Anthracene	3.7	J
206-44-0	Fluoranthene	11.	
129-00-0	Pyrene	12.	
56-55-3	Benzo(a)anthracene	7.0	
218-01-9	Chrysene	10.	
205-99-2	Benzo(b)fluoranthene	14.	
207-08-9	Benzo(k)fluoranthene	4.0	J
50-32-8	Benzo(a)pyrene	6.0	
193-39-5	Indeno(1,2,3-cd)pyrene	6.8	
53-70-3	Dibenzo(a,h)anthracene	1.5	J
191-24-2	Benzo(g,h,i)perylene	4.8	

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP31F02.D Vial: 28
Acq On : 06/24/2015 06:30 Operator: DJC
Sample : 1515725002 F9M82 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 25 10:31:11 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



S7 6/15/15

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP31F02.D Vial: 28
Acq On : 06/24/2015 06:30 Operator: DJC
Sample : 1515725002 F9M82 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 10:31:11 2015 Results File: DSOM_SIMJ2.RES

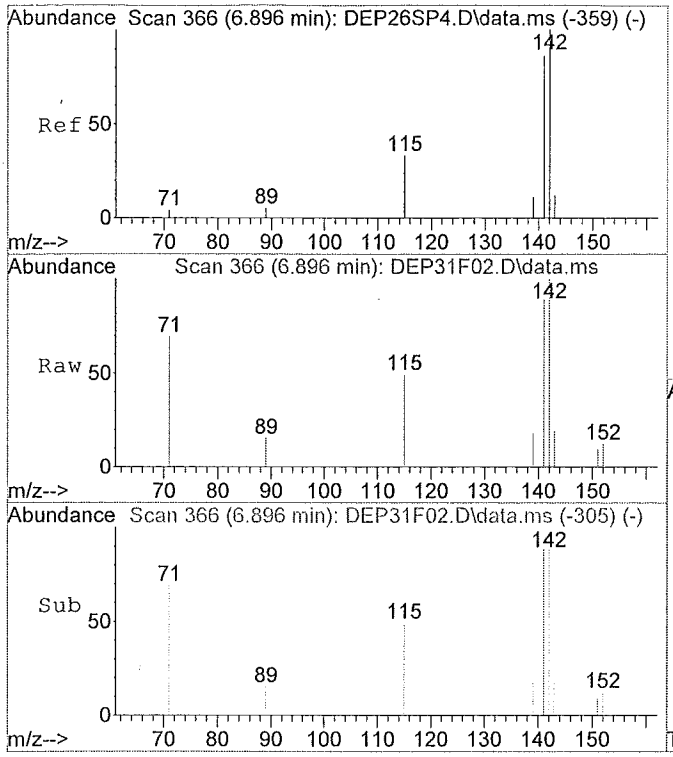
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.92	136	150616	0.40 ug/ml	
5) Acenaphthene-d10	8.55	164	111687	0.40 ug/ml	
9) Phenanthrene-d10	11.18	188	198399	0.40 ug/ml	
15) Chrysene-d12	15.36	240	221967	0.40 ug/ml	
19) Perylene-d12	17.73	264	238390	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.85	152	65643	0.270ug/mL	
13) Fluoranthene-d10	13.33	212	155221	0.286ug/mL	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	6.90	142	6062	0.024ug/ml	89
6) Acenaphthylene	8.31	152	34920	0.071ug/ml	91
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.22	178	43252	0.076ug/ml	99
12) Anthracene	11.31	178	50835	0.092ug/ml	95
14) Fluoranthene	13.36	202	176053	0.271ug/ml	94
16) Pyrene	13.72	202	212615	0.305ug/ml	1
17) Benzo(a)anthracene	15.34	228	101334	0.171ug/ml	87
18) Chrysene	15.39	228	157992	0.253ug/ml	96
20) Benzo(b)fluoranthene	17.00	252	259108	0.349ug/ml	99
21) Benzo(k)fluoranthene	17.04	252	75134	0.098ug/ml m	98
22) Benzo(a)pyrene	17.62	252	104652	0.147ug/ml	95
23) Indeno(1,2,3-c,d)pyrene	20.44	276	102546	0.165ug/ml	100
24) Dibenzo(a,h)anthracene	20.50	278	25218	0.037ug/ml	90
25) Benzo(g,h,i)perylene	21.28	276	82591	0.118ug/ml	50

54
6/25/15

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

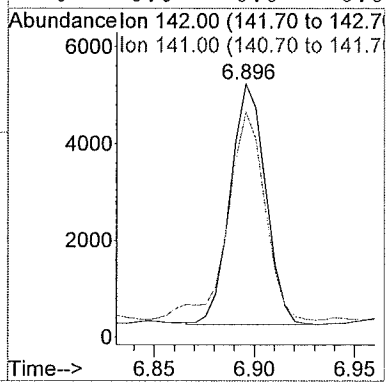
01095

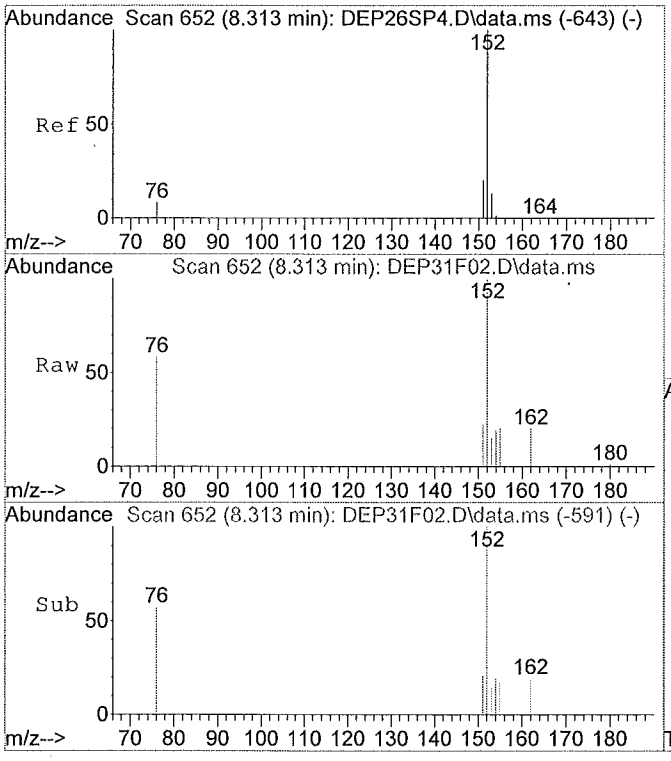


#4
2-Methylnaphthalene
Concen: 0.02 ug/ml
RT: 6.90 min Scan# 366
Delta R.T. -0.00 min
Lab File: DEP31F02.D
Acq: 06/24/2015 06:30

Tgt Ion:142 Resp: 6062

Ion	Ratio	Lower	Upper
142	100		
141	97.5	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

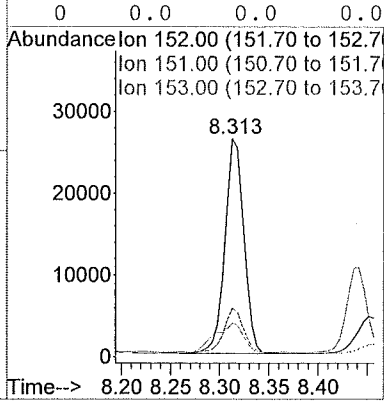


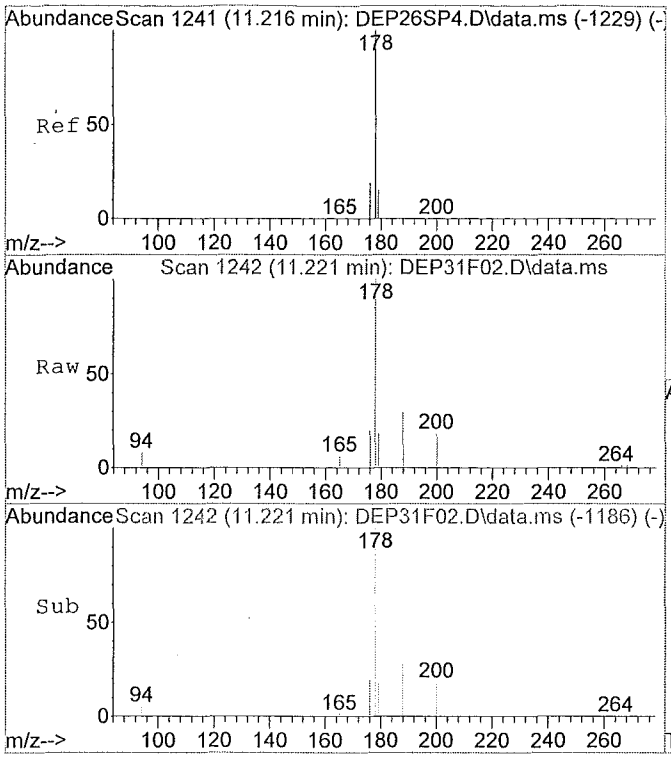


#6
Acenaphthylene
Concen: 0.07 ug/ml
RT: 8.31 min Scan# 652
Delta R.T. 0.00 min
Lab File: DEP31F02.D
Acq: 06/24/2015 06:30

Tgt Ion:152 Resp: 34920

Ion	Ratio	Lower	Upper
152	100		
151	22.1	15.5	28.7
153	21.9	8.8	16.4#
0	0.0	0.0	0.0

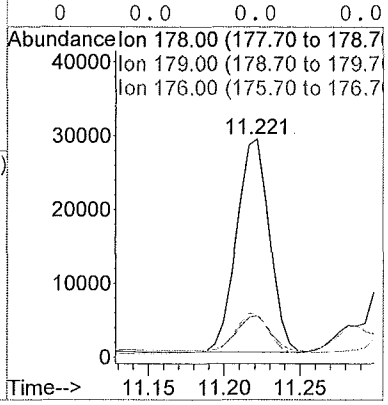


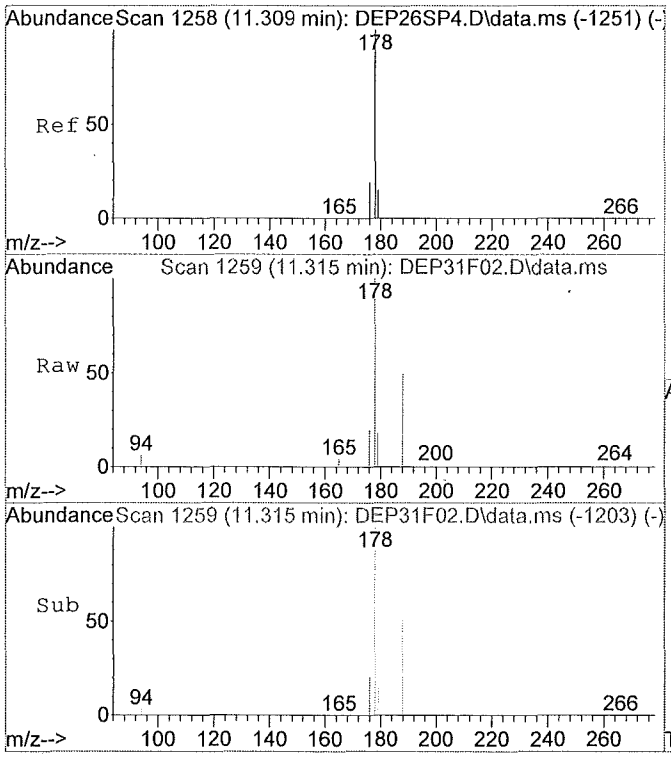


#11
Phenanthrene
Concen: 0.08 ug/ml
RT: 11.22 min Scan# 1242
Delta R.T. 0.01 min
Lab File: DEP31F02.D
Acq: 06/24/2015 06:30

Tgt Ion:178 Resp: 43252

Ion	Ratio	Lower	Upper
178	100		
179	16.3	11.1	20.5
176	20.4	14.1	26.1
0	0.0	0.0	0.0

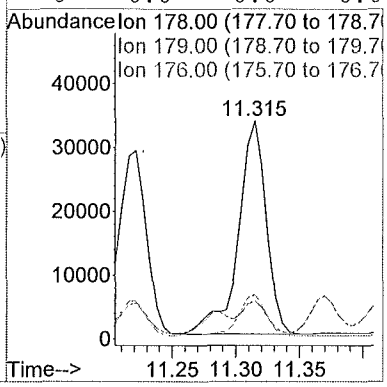


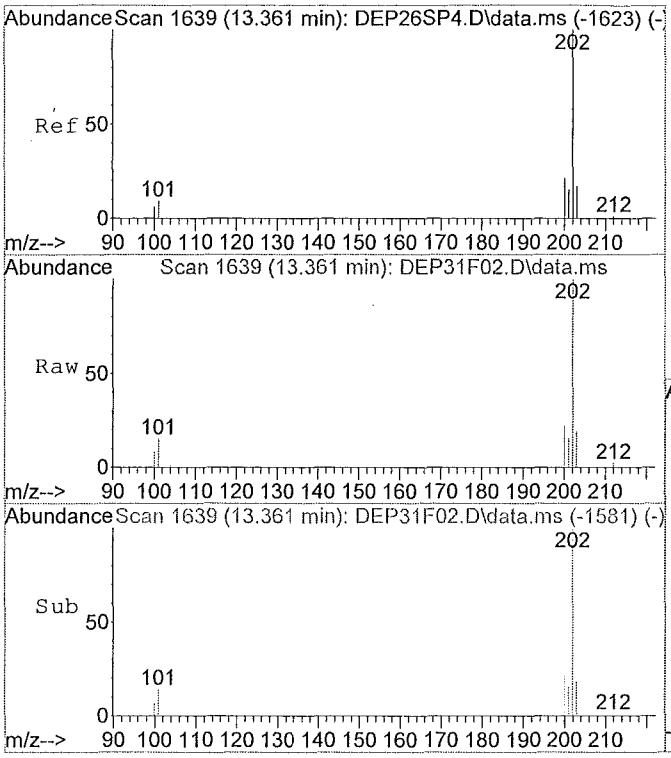


#12
Anthracene
Concen: 0.09 ug/ml
RT: 11.31 min Scan# 1259
Delta R.T. 0.01 min
Lab File: DEP31F02.D
Acq: 06/24/2015 06:30

Tgt Ion:178 Resp: 50835

Ion	Ratio	Lower	Upper
178	100		
179	12.8	11.6	21.6
176	19.2	13.9	25.7
0	0.0	0.0	0.0

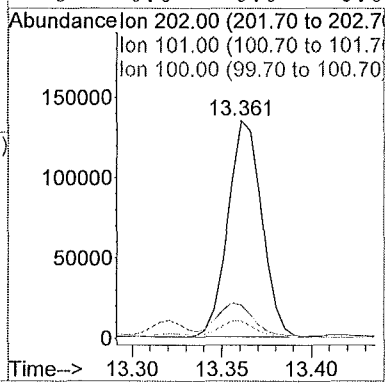


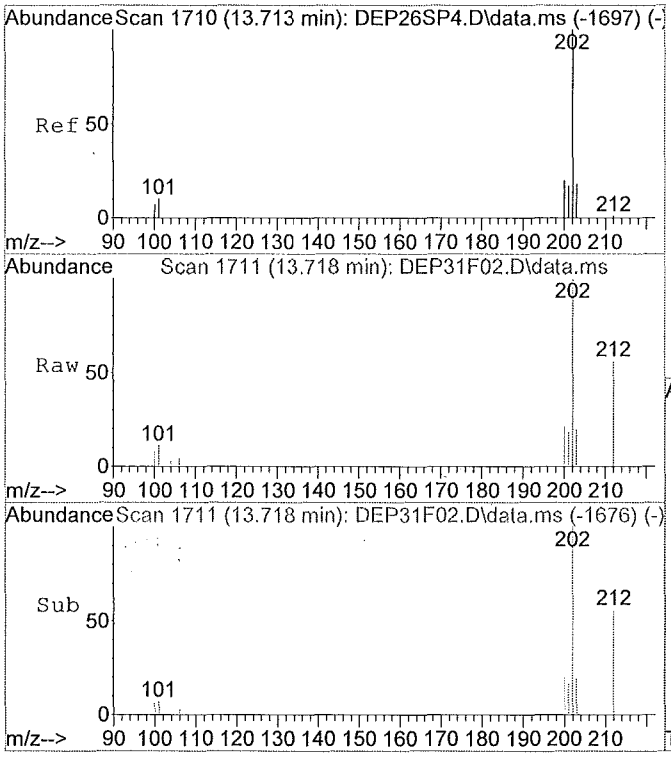


#14
Fluoranthene
Concen: 0.27 ug/ml
RT: 13.36 min Scan# 1639
Delta R.T. -0.00 min
Lab File: DEP31F02.D
Acq: 06/24/2015 06:30

Tgt Ion:202 Resp: 176053

Ion	Ratio	Lower	Upper
202	100		
101	15.8	9.4	17.6
100	8.4	0.0	0.0#
0	0.0	0.0	0.0

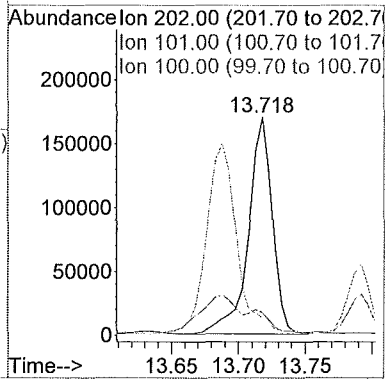


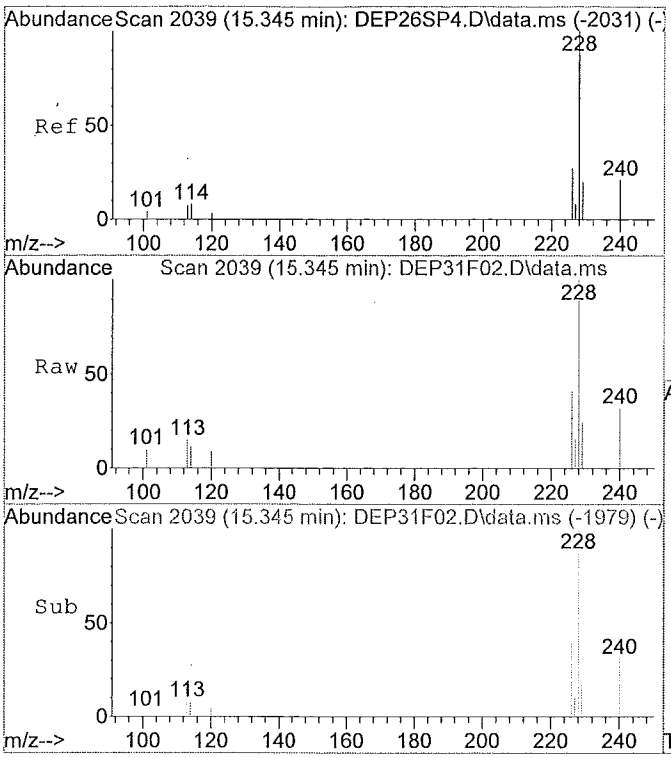


#16
Pyrene
Concen: 0.31 ug/ml
RT: 13.72 min Scan# 1711
Delta R.T. 0.00 min
Lab File: DEP31F02.D
Acq: 06/24/2015 06:30

Tgt Ion:202 Resp: 212615

Ion	Ratio	Lower	Upper
202	100		
101	25.5	10.6	19.6#
100	111.4	9.4	17.4#
0	0.0	0.0	0.0

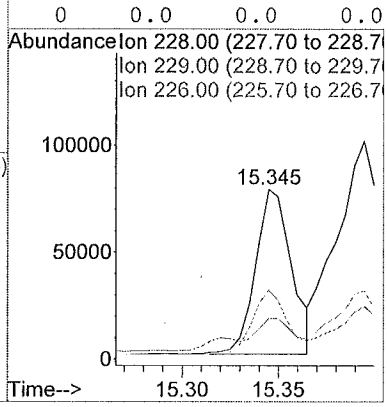


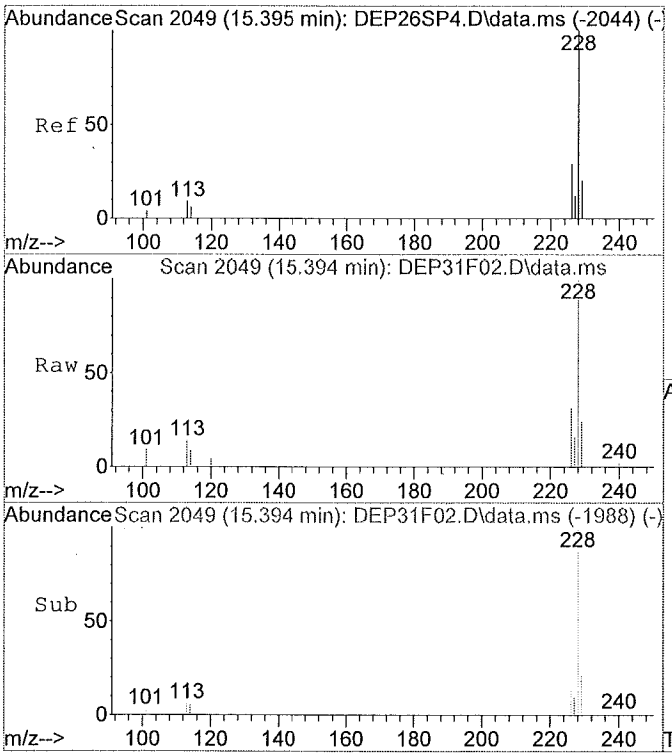


#17
Benzo(a)anthracene
Concen: 0.17 ug/ml
RT: 15.34 min Scan# 2039
Delta R.T. -0.00 min
Lab File: DEP31F02.D
Acq: 06/24/2015 06:30

Tgt Ion:228 Resp: 101334

Ion	Ratio	Lower	Upper
228	100		
229	20.7	14.5	26.9
226	38.4	18.5	34.3#
0	0.0	0.0	0.0

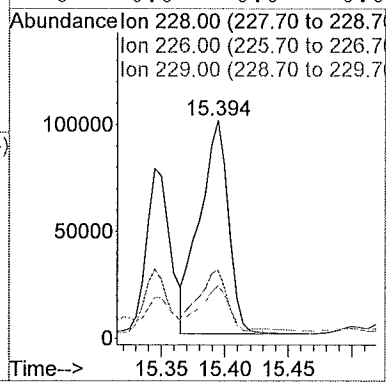


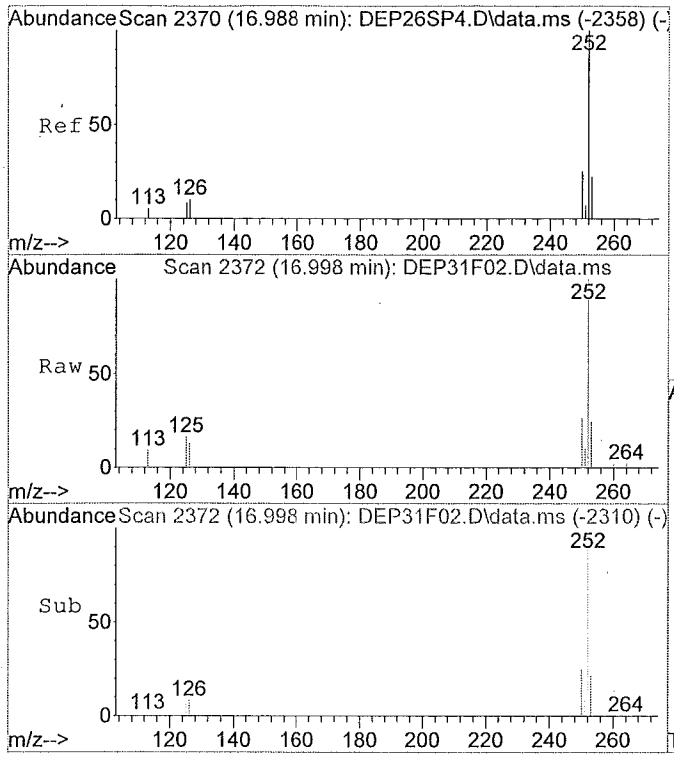


#18
Chrysene
Concen: 0.25 ug/ml
RT: 15.39 min Scan# 2049
Delta R.T. 0.00 min
Lab File: DEP31F02.D
Acq: 06/24/2015 06:30

Tgt Ion:228 Resp: 157992

Ion	Ratio	Lower	Upper
228	100		
226	31.1	19.7	36.7
229	22.0	14.5	26.9
0	0.0	0.0	0.0

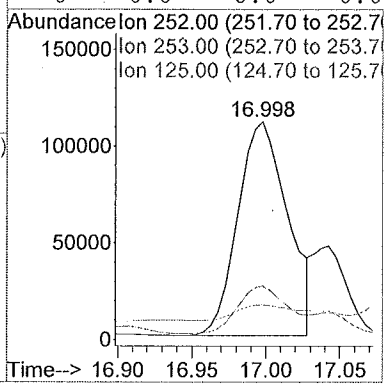


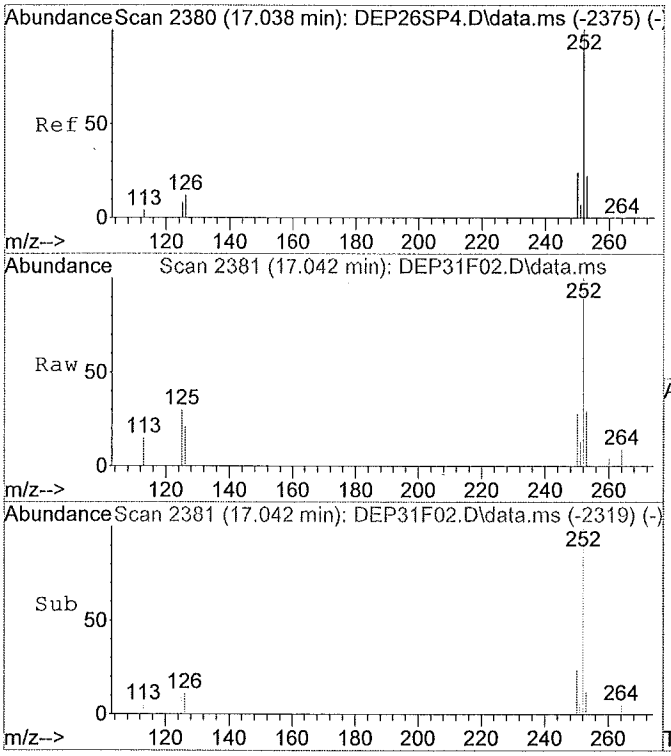


#20
Benzo(b)fluoranthene
Concen: 0.35 ug/ml
RT: 17.00 min Scan# 2372
Delta R.T. 0.01 min
Lab File: DEP31F02.D
Acq: 06/24/2015 06:30

Tgt Ion:252 Resp: 259108

Ion	Ratio	Lower	Upper
252	100		
253	22.5	15.3	28.3
125	12.3	0.0	0.0#
0	0.0	0.0	0.0

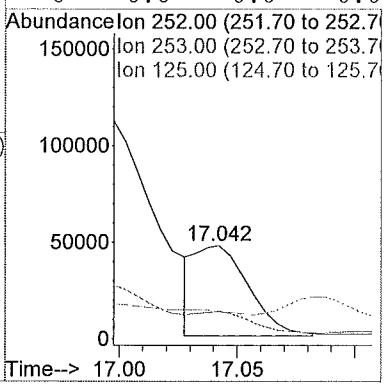


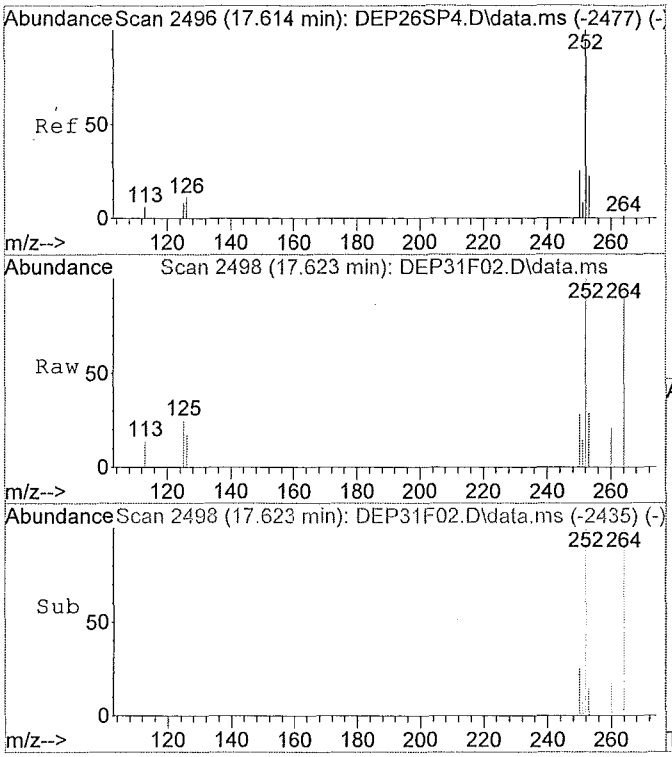


#21
Benzo(k)fluoranthene
Concen: 0.10 ug/ml m
RT: 17.04 min Scan# 2381
Delta R.T. 0.01 min
Lab File: DEP31F02.D
Acq: 06/24/2015 06:30

Tgt Ion:252 Resp: 75134

Ion	Ratio	Lower	Upper
252	100		
253	77.5	15.0	27.8#
125	38.4	0.0	0.0#
0	0.0	0.0	0.0

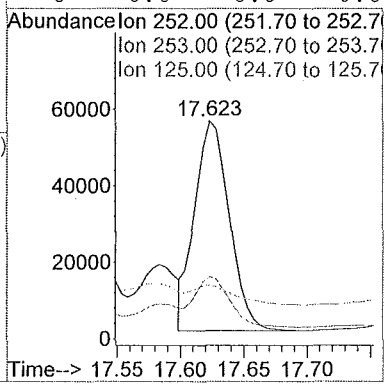


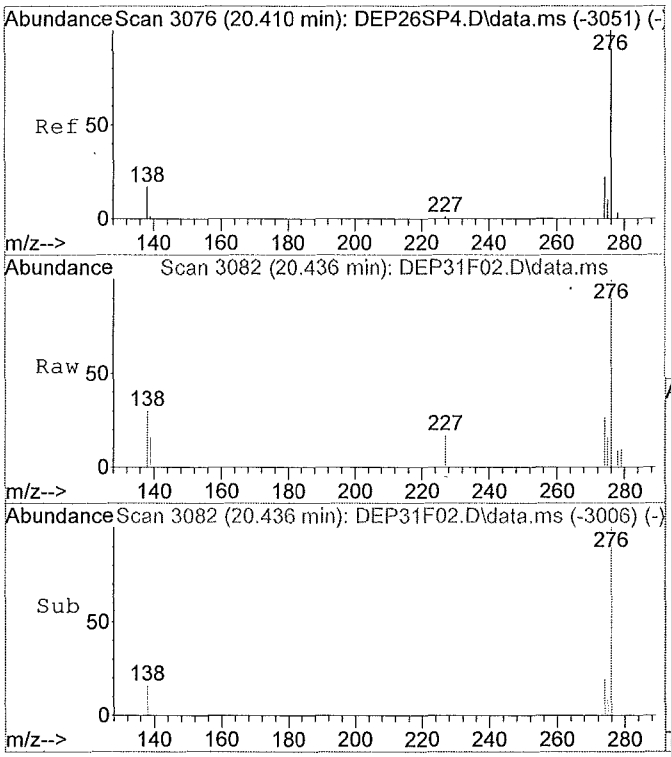


#22
Benzo(a)pyrene
Concen: 0.15 ug/ml
RT: 17.62 min Scan# 2498
Delta R.T. 0.01 min
Lab File: DEP31F02.D
Acq: 06/24/2015 06:30

Tgt Ion:252 Resp: 104652

Ion	Ratio	Lower	Upper
252	100		
253	23.8	15.0	27.8
125	11.5	0.0	0.0#
0	0.0	0.0	0.0

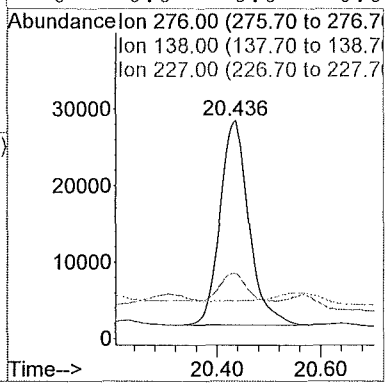


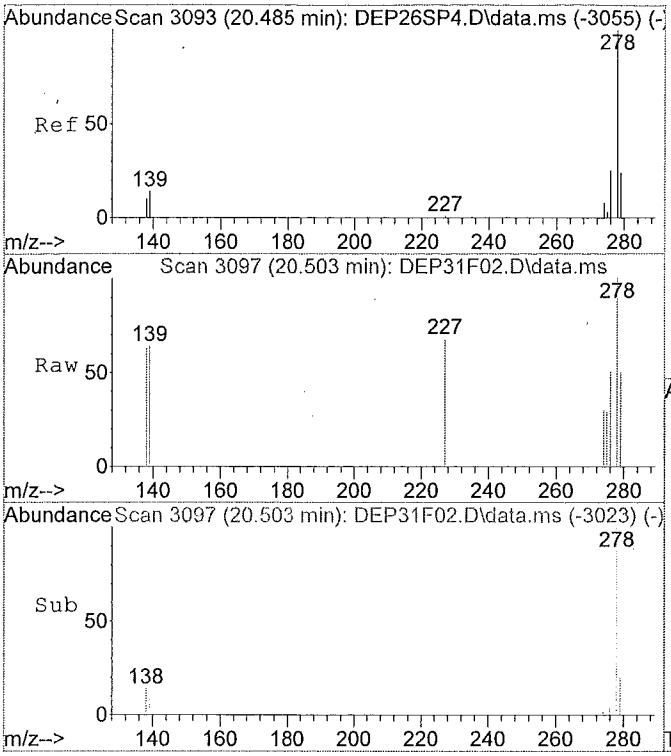


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.17 ug/ml
RT: 20.44 min Scan# 3082
Delta R.T. 0.04 min
Lab File: DEP31F02.D
Acq: 06/24/2015 06:30

Tgt Ion:276 Resp: 102546

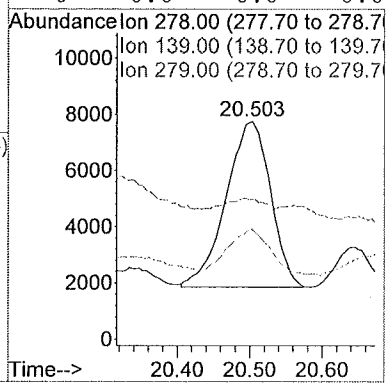
Ion	Ratio	Lower	Upper
276	100		
138	12.9	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

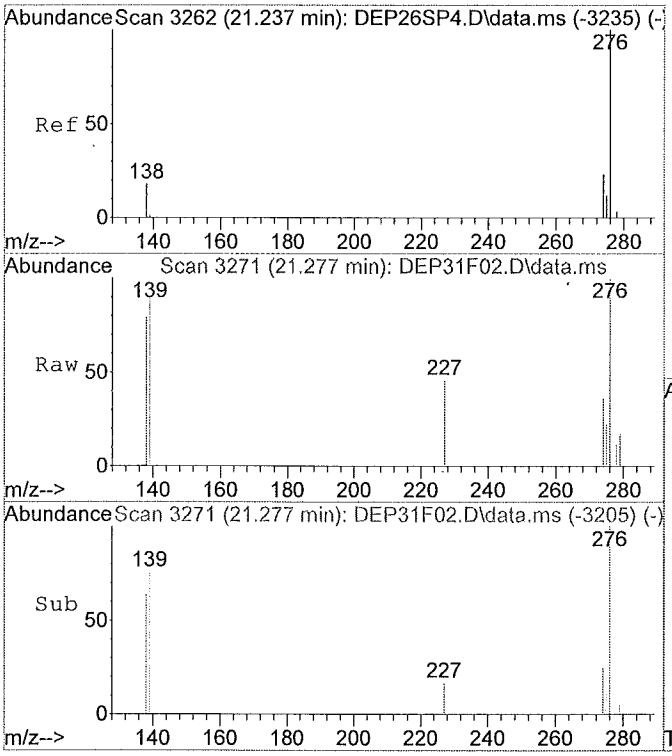




#24
Dibenzo(a,h)anthracene
Concen: 0.04 ug/ml
RT: 20.50 min Scan# 3097
Delta R.T. 0.03 min
Lab File: DEP31F02.D
Acq: 06/24/2015 06:30

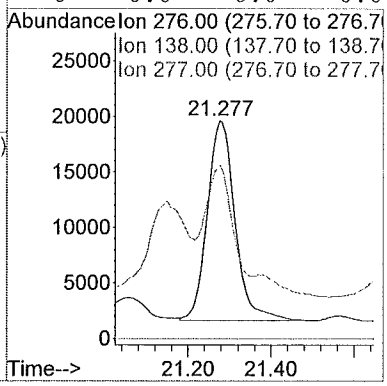
Tgt Ion:278	Resp:	25218	
Ion	Ratio	Lower	Upper
278	100		
139	0.0	0.0	0.0
279	27.4	15.8	29.3
0	0.0	0.0	0.0



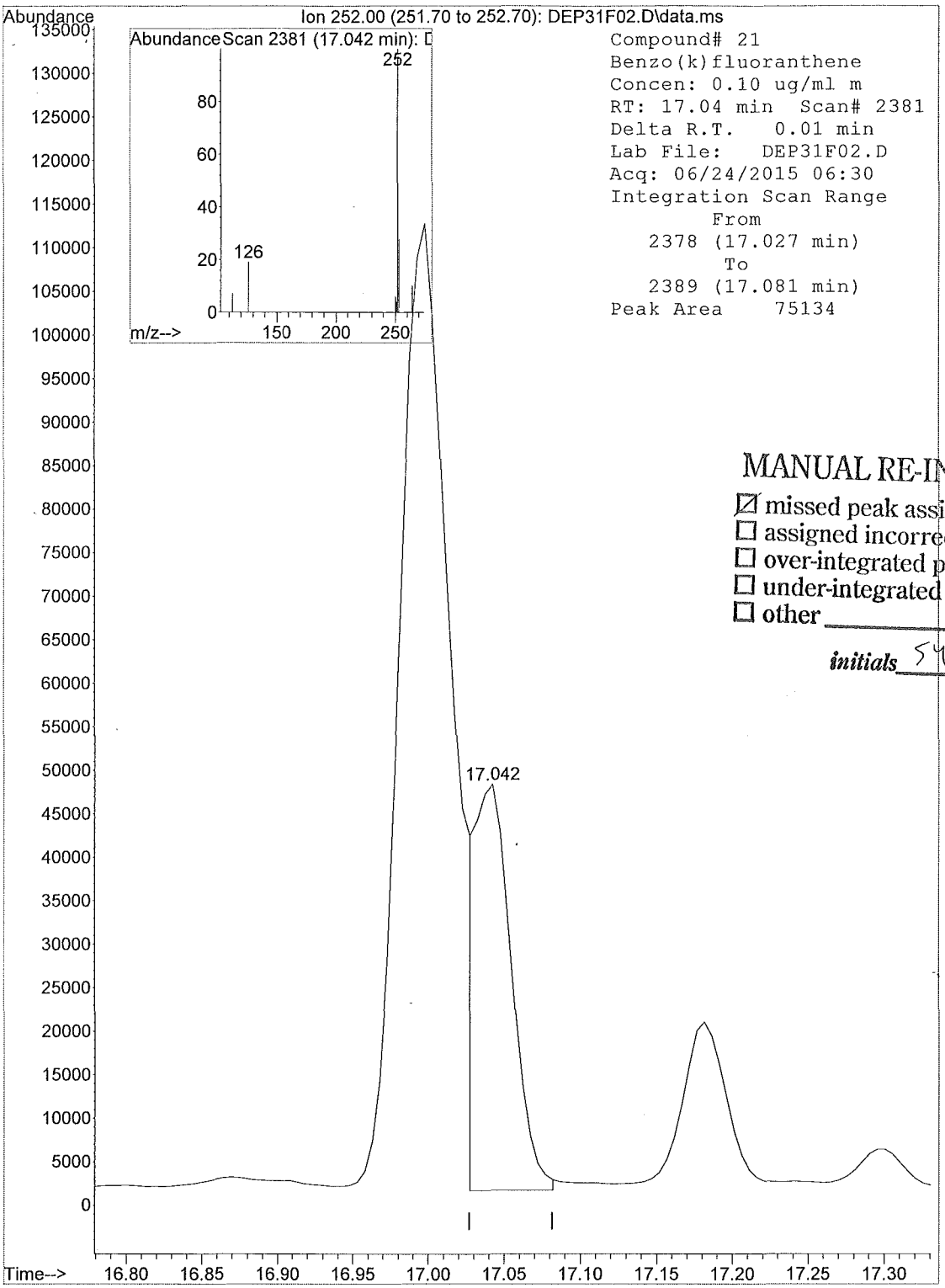


#25
Benzo(g,h,i)perylene
Concen: 0.12 ug/ml
RT: 21.28 min Scan# 3271
Delta R.T. 0.06 min
Lab File: DEP31F02.D
Acq: 06/24/2015 06:30

Tgt Ion:276	Resp:	82591	
Ion	Ratio	Lower	Upper
276	100		
138	48.8	16.2	30.0#
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☑ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 6/25/15

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M83

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725003

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DEP32F03

Extraction: (Type) SONC

% Moisture: 20. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 6.8 Dilution Factor: 1.0

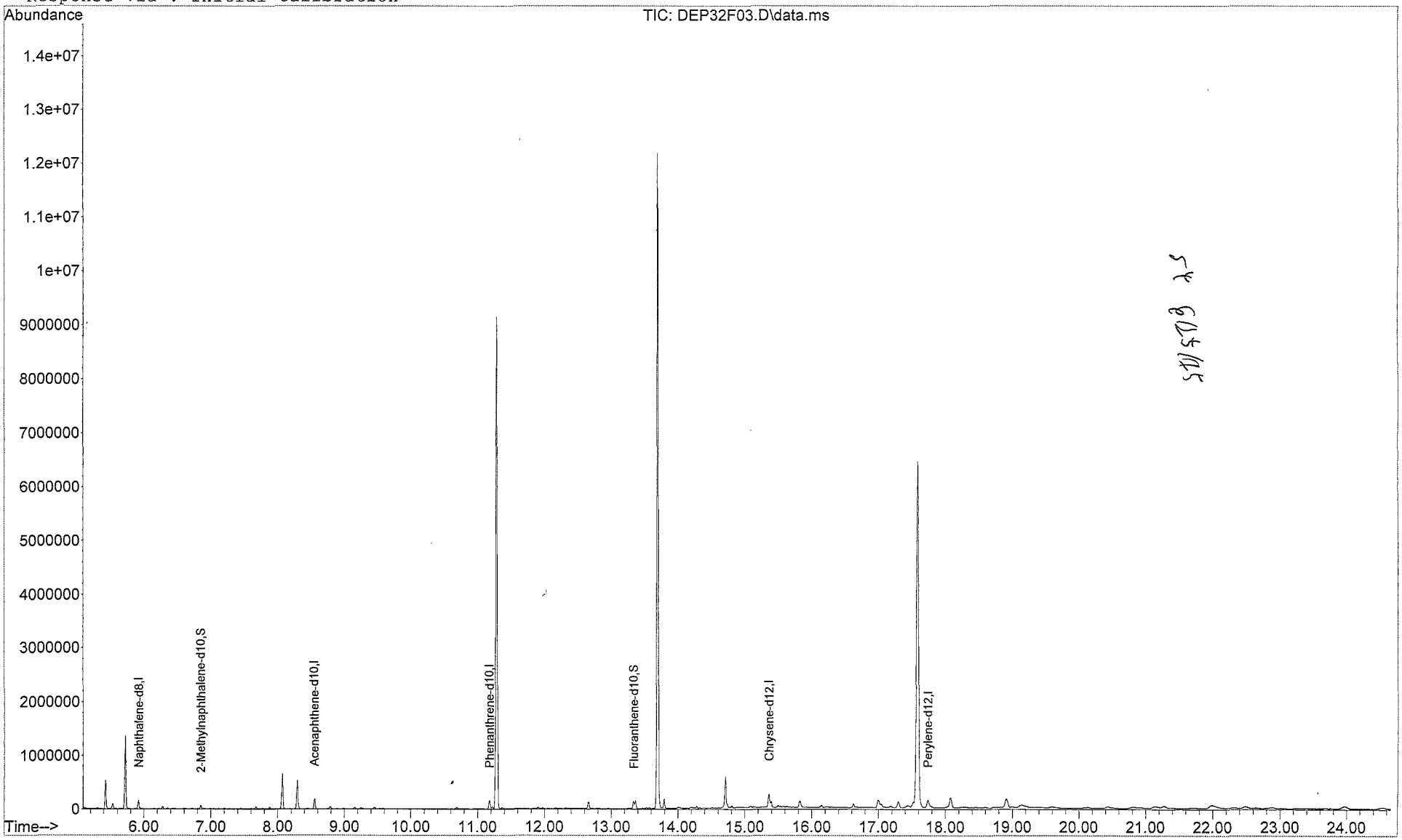
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	4.1	U
91-57-6	2-Methylnaphthalene	4.1	U
208-96-8	Acenaphthylene	1.8	J
83-32-9	Acenaphthene	4.1	U
86-73-7	Fluorene	4.1	U
87-86-5	Pentachlorophenol	8.4	U
85-01-8	Phenanthrene	2.3	J
120-12-7	Anthracene	2.7	J
206-44-0	Fluoranthene	6.5	
129-00-0	Pyrene	7.5	
56-55-3	Benzo(a)anthracene	4.1	J
218-01-9	Chrysene	6.4	
205-99-2	Benzo(b)fluoranthene	10.	
207-08-9	Benzo(k)fluoranthene	2.9	J
50-32-8	Benzo(a)pyrene	4.2	
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	
53-70-3	Dibenzo(a,h)anthracene	1.1	J
191-24-2	Benzo(g,h,i)perylene	4.1	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP32F03.D Vial: 29
Acq On : 06/24/2015 07:00 Operator: DJC
Sample : 1515725003 F9M83 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 25 10:32:01 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



DEP32F03.D DSOM_SIMJ2.M Thu Jun 25 10:40:09 2015 Page 2

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP32F03.D Vial: 29
Acq On : 06/24/2015 07:00 Operator: DJC
Sample : 1515725003 F9M83 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 10:32:01 2015 Results File: DSOM_SIMJ2.RES

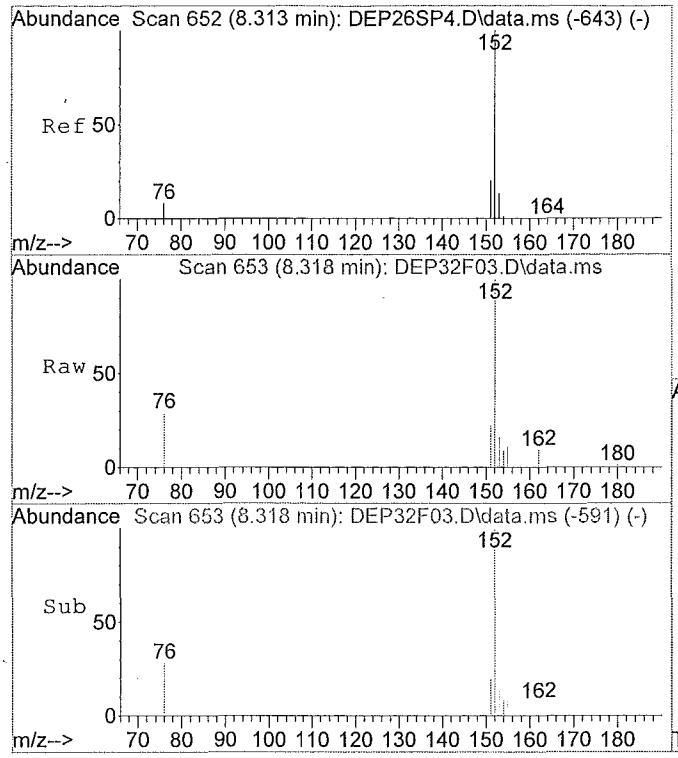
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.92	136	176414	0.40 ug/ml	
5) Acenaphthene-d10	8.55	164	125502	0.40 ug/ml	
9) Phenanthrene-d10	11.18	188	212771	0.40 ug/ml	
15) Chrysene-d12	15.36	240	235765	0.40 ug/ml	
19) Perylene-d12	17.74	264	251415	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.85	152	72684	0.255ug/mL	
13) Fluoranthene-d10	13.34	212	156254	0.269ug/mL	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	8.32	152	23721	0.043ug/ml	87
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.22	178	34294	0.056ug/ml	97
12) Anthracene	11.31	178	38296	0.064ug/ml	96
14) Fluoranthene	13.37	202	109027	0.156ug/ml	85
16) Pyrene	13.72	202	132838	0.180ug/ml	1
17) Benzo(a)anthracene	15.35	228	61322	0.098ug/ml	85
18) Chrysene	15.39	228	102171	0.154ug/ml	99
20) Benzo(b)fluoranthene	17.00	252	191716	0.245ug/ml	99
21) Benzo(k)fluoranthene	17.04	252	55517	0.068ug/ml m	98
22) Benzo(a)pyrene	17.62	252	76220	0.102ug/ml	93
23) Indeno(1,2,3-c,d)pyrene	20.44	276	78852	0.120ug/ml	100
24) Dibenzo(a,h)anthracene	20.50	278	19652	0.027ug/ml	88
25) Benzo(g,h,i)perylene	0.00	276		Not Detected	

KE 6/25/15

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

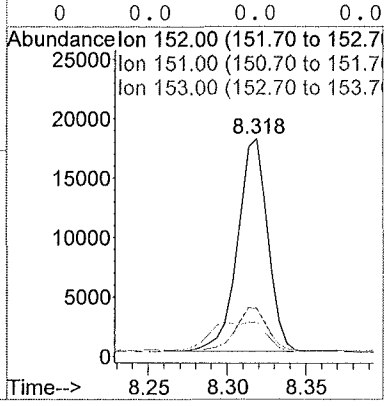
01180

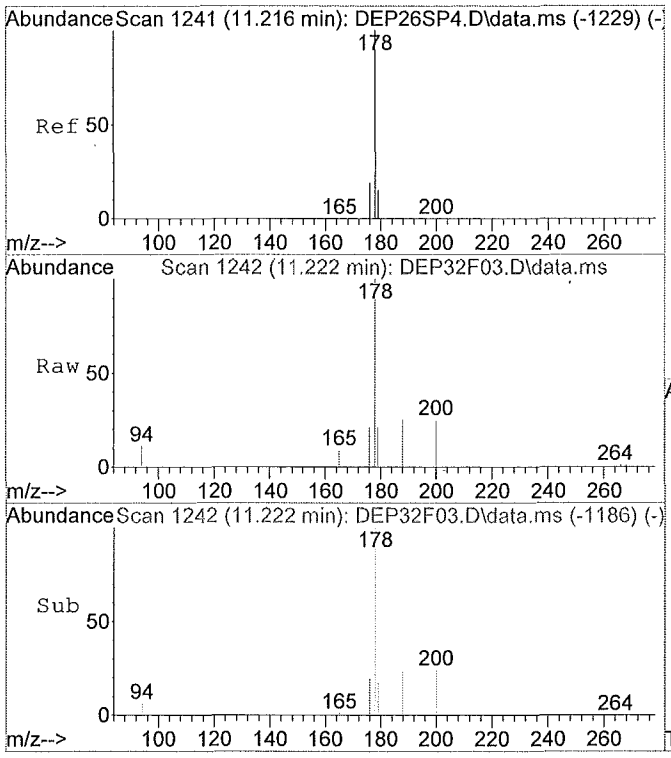


#6
Acenaphthylene
Concen: 0.04 ug/ml
RT: 8.32 min Scan# 653
Delta R.T. 0.01 min
Lab File: DEP32F03.D
Acq: 06/24/2015 07:00

Tgt Ion:152 Resp: 23721

Ion	Ratio	Lower	Upper
152	100		
151	22.2	15.5	28.7
153	26.9	8.8	16.4#
0	0.0	0.0	0.0

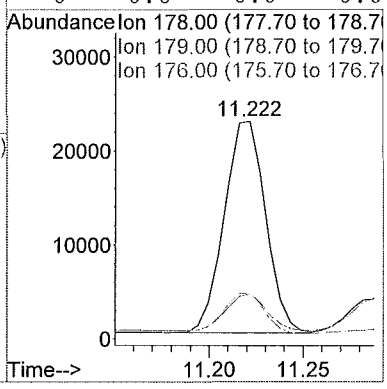


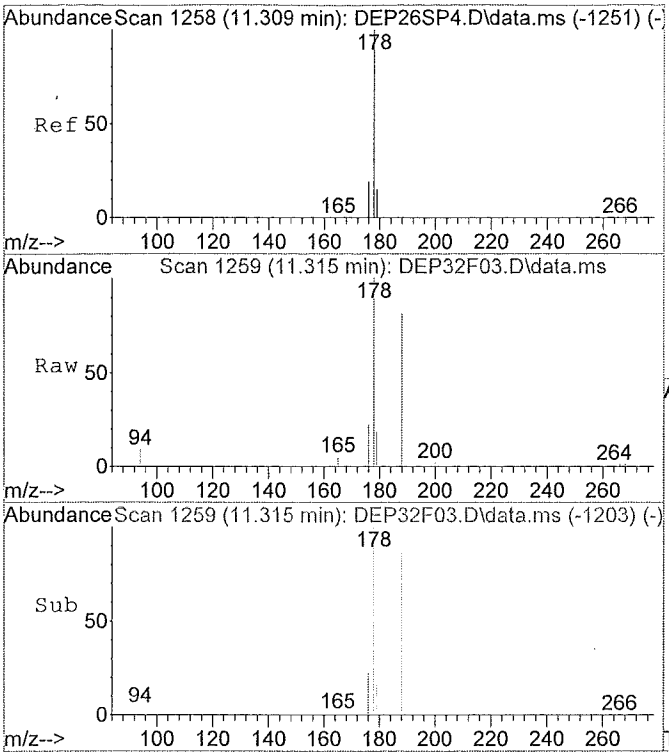


#11
Phenanthrene
Concen: 0.06 ug/ml
RT: 11.22 min Scan# 1242
Delta R.T. 0.01 min
Lab File: DEP32F03.D
Acq: 06/24/2015 07:00

Tgt Ion:178 Resp: 34294

Ion	Ratio	Lower	Upper
178	100		
179	16.6	11.1	20.5
176	21.8	14.1	26.1
0	0.0	0.0	0.0

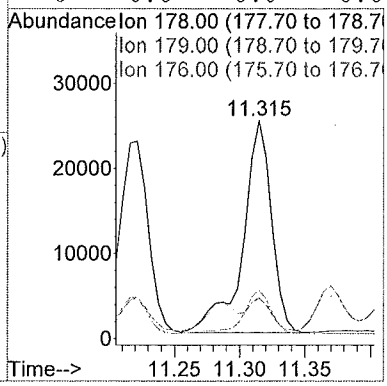


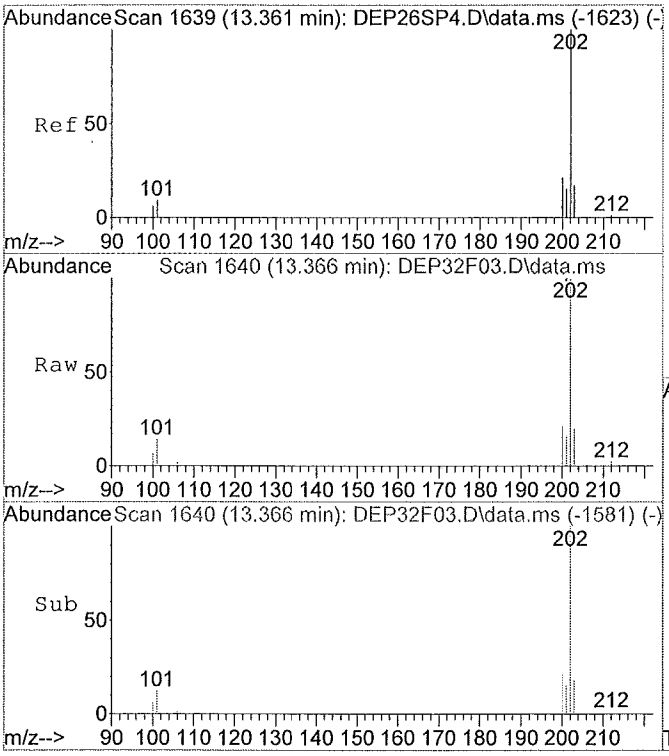


#12
Anthracene
Concen: 0.06 ug/ml
RT: 11.31 min Scan# 1259
Delta R.T. 0.01 min
Lab File: DEP32F03.D
Acq: 06/24/2015 07:00

Tgt Ion:178 Resp: 38296

Ion	Ratio	Lower	Upper
178	100		
179	12.6	11.6	21.6
176	19.8	13.9	25.7
0	0.0	0.0	0.0

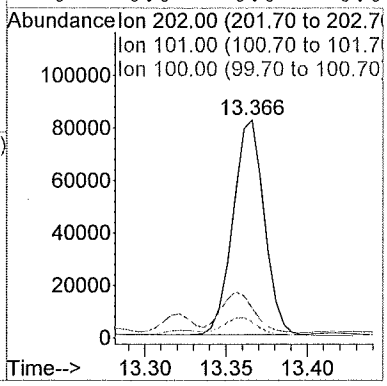


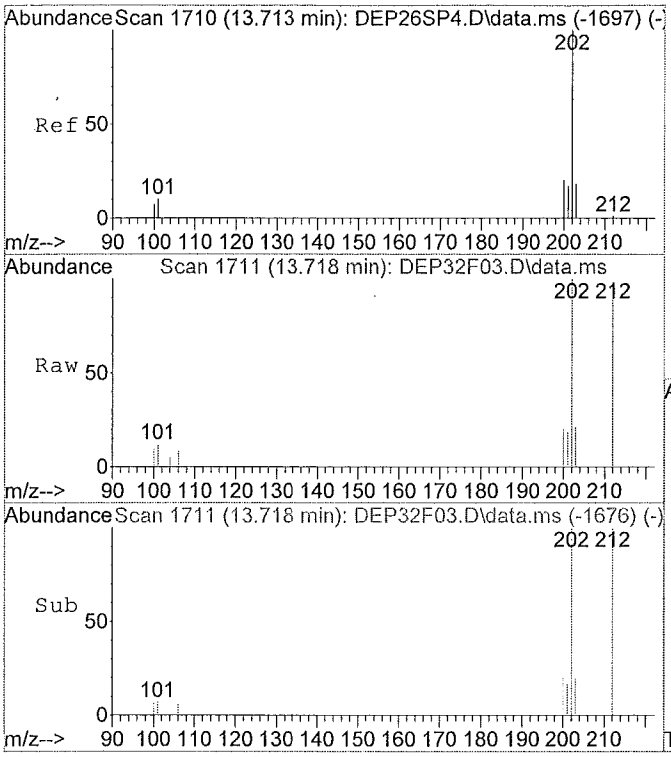


#14
Fluoranthene
Concen: 0.16 ug/ml
RT: 13.37 min Scan# 1640
Delta R.T. 0.00 min
Lab File: DEP32F03.D
Acq: 06/24/2015 07:00

Tgt Ion:202 Resp: 109027

Ion	Ratio	Lower	Upper
202	100		
101	19.7	9.4	17.6#
100	9.2	0.0	0.0#
0	0.0	0.0	0.0

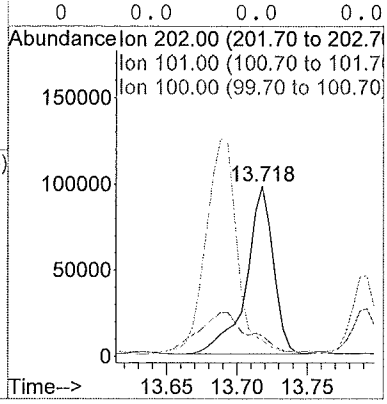


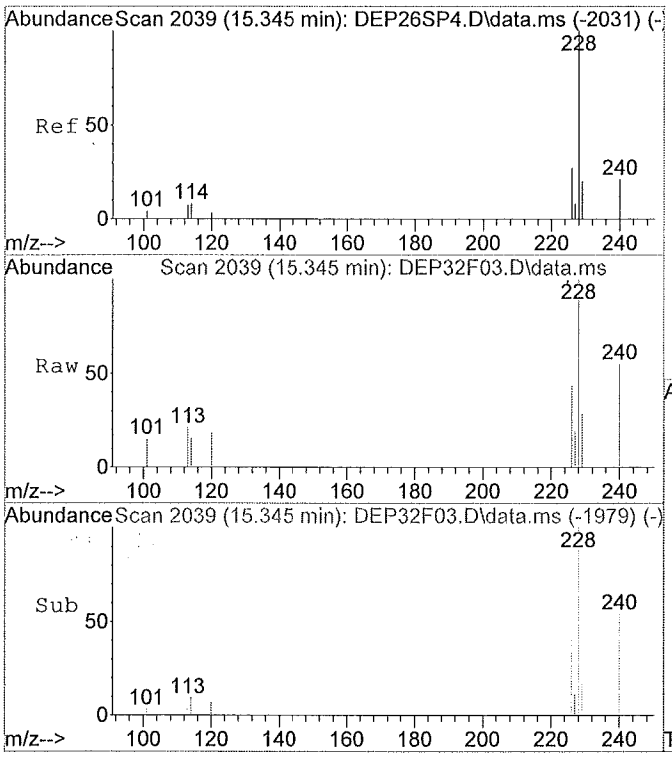


#16
Pyrene
Concen: 0.18 ug/ml
RT: 13.72 min Scan# 1711
Delta R.T. 0.00 min
Lab File: DEP32F03.D
Acq: 06/24/2015 07:00

Tgt Ion:202 Resp: 132838

Ion	Ratio	Lower	Upper
202	100		
101	42.3	10.6	19.6#
100	146.9	9.4	17.4#
0	0.0	0.0	0.0

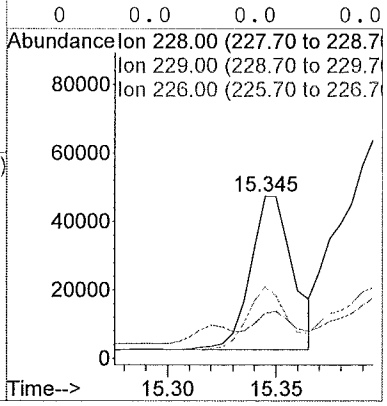


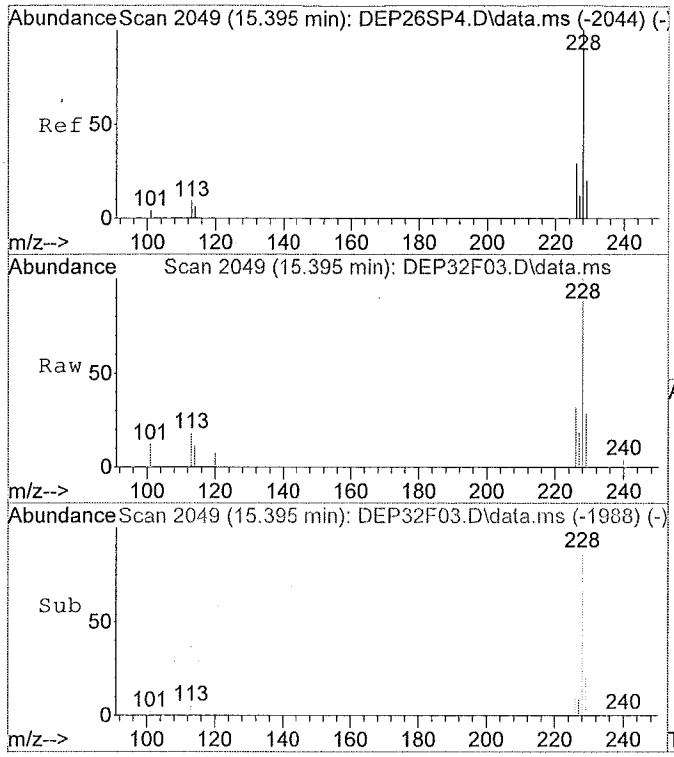


#17
Benzo(a)anthracene
Concen: 0.10 ug/ml
RT: 15.35 min Scan# 2039
Delta R.T. -0.00 min
Lab File: DEP32F03.D
Acq: 06/24/2015 07:00

Tgt Ion:228 Resp: 61322

Ion	Ratio	Lower	Upper
228	100		
229	20.8	14.5	26.9
226	40.3	18.5	34.3#
0	0.0	0.0	0.0

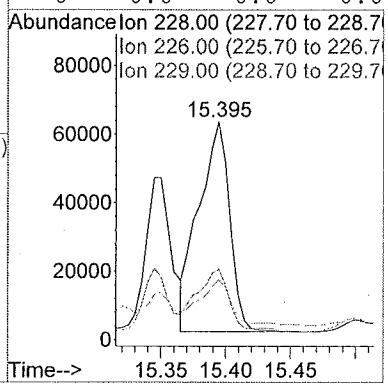


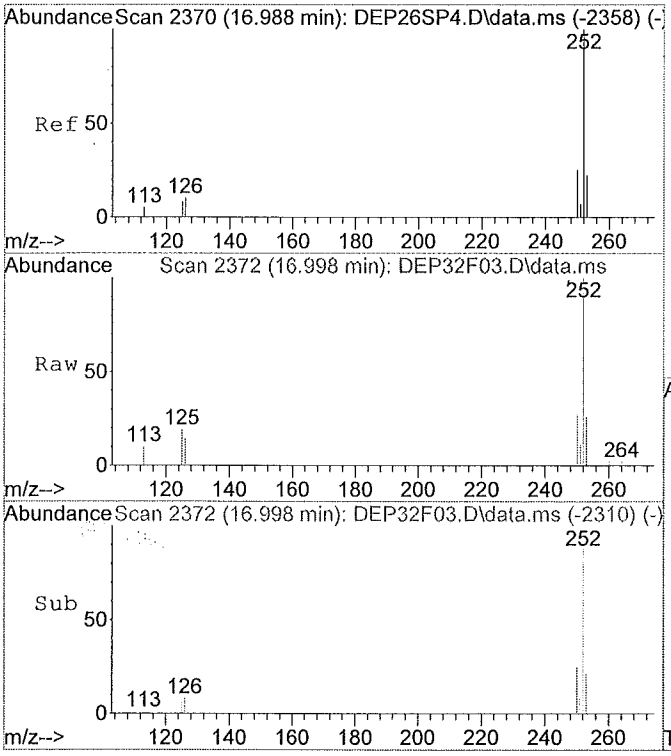


#18
Chrysene
Concen: 0.15 ug/ml
RT: 15.39 min Scan# 2049
Delta R.T. 0.00 min
Lab File: DEP32F03.D
Acq: 06/24/2015 07:00

Tgt Ion:228 Resp: 102171

Ion	Ratio	Lower	Upper
228	100		
226	27.9	19.7	36.7
229	20.3	14.5	26.9
0	0.0	0.0	0.0

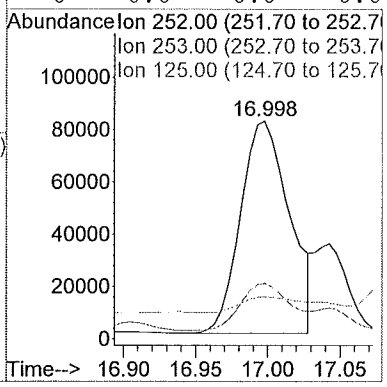


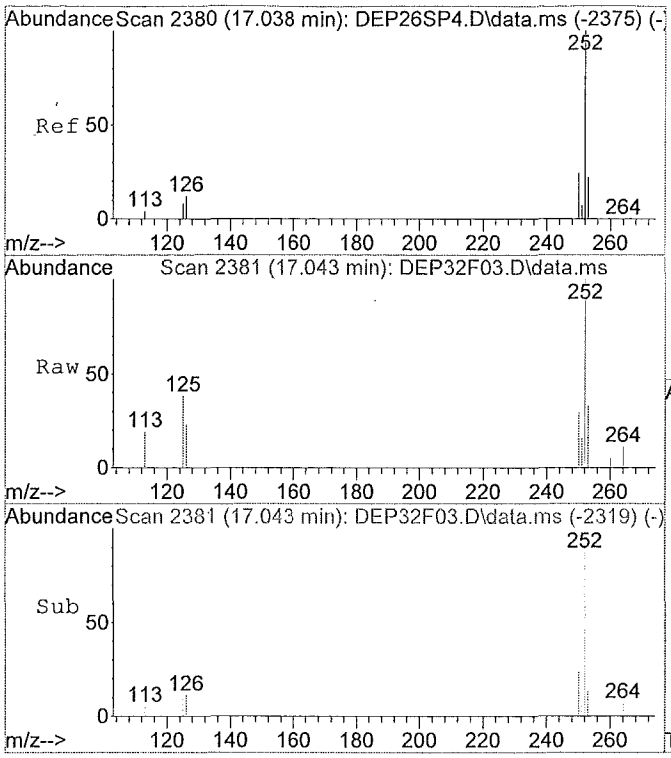


#20
Benzo(b)fluoranthene
Concen: 0.24 ug/ml
RT: 17.00 min Scan# 2372
Delta R.T. 0.01 min
Lab File: DEP32F03.D
Acq: 06/24/2015 07:00

Tgt Ion:252 Resp: 191716

Ion	Ratio	Lower	Upper
252	100		
253	22.5	15.3	28.3
125	12.2	0.0	0.0#
0	0.0	0.0	0.0

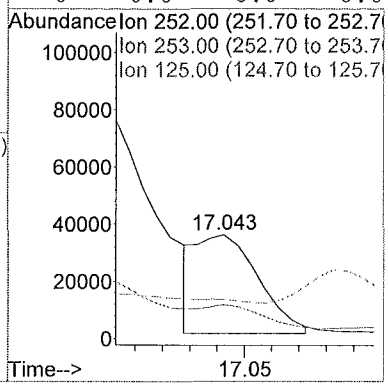


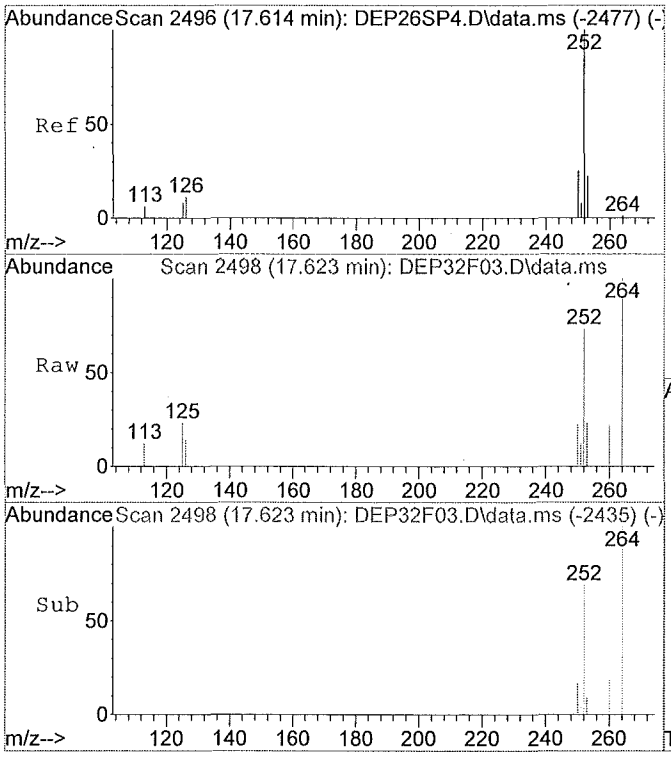


#21
Benzo(k)fluoranthene
Concen: 0.07 ug/ml m
RT: 17.04 min Scan# 2381
Delta R.T. 0.01 min
Lab File: DEP32F03.D
Acq: 06/24/2015 07:00

Tgt Ion:252 Resp: 55517

Ion	Ratio	Lower	Upper
252	100		
253	77.6	15.0	27.8#
125	39.8	0.0	0.0#
0	0.0	0.0	0.0

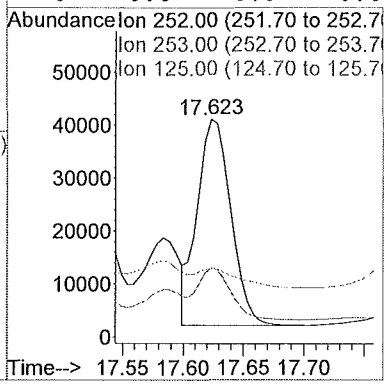


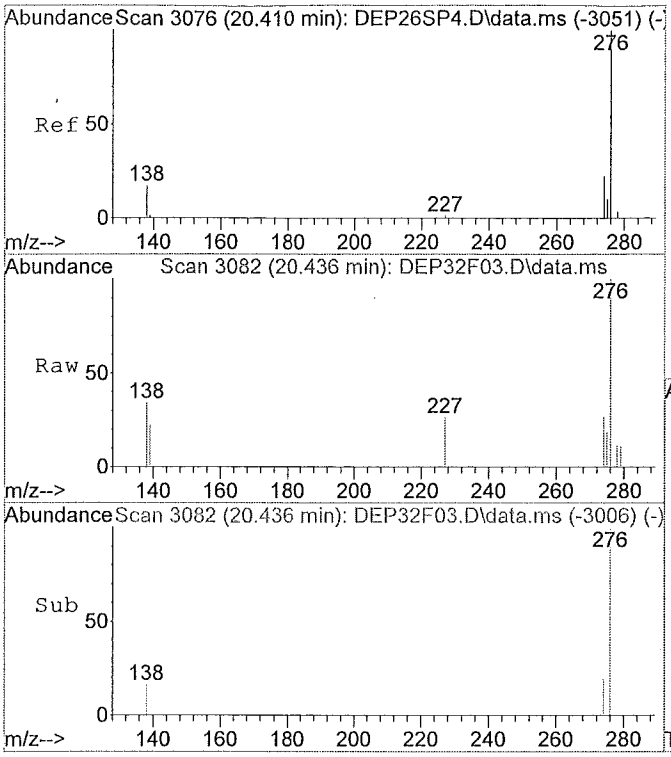


#22
Benzo(a)pyrene
Concen: 0.10 ug/ml
RT: 17.62 min Scan# 2498
Delta R.T. 0.01 min
Lab File: DEP32F03.D
Acq: 06/24/2015 07:00

Tgt Ion:252 Resp: 76220

Ion	Ratio	Lower	Upper
252	100		
253	24.8	15.0	27.8
125	10.8	0.0	0.0#
0	0.0	0.0	0.0

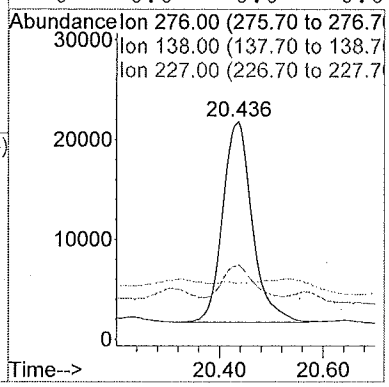


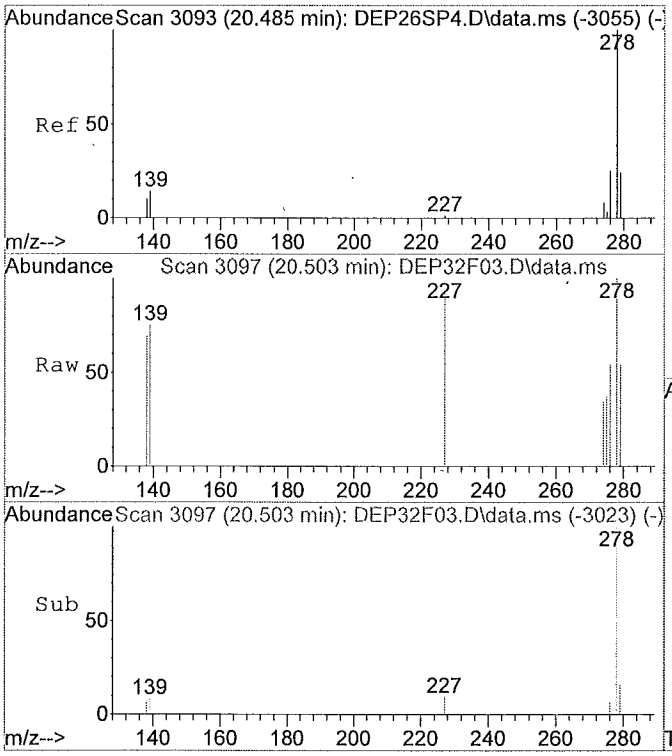


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.12 ug/ml
RT: 20.44 min Scan# 3082
Delta R.T. 0.04 min
Lab File: DEP32F03.D
Acq: 06/24/2015 07:00

Tgt Ion:276 Resp: 78852

Ion	Ratio	Lower	Upper
276	100		
138	15.5	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

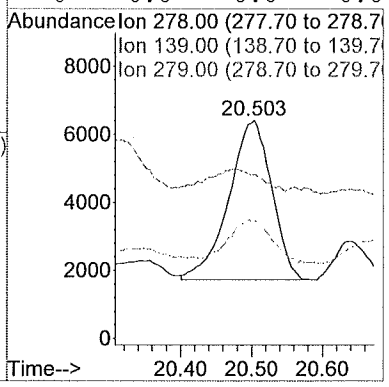




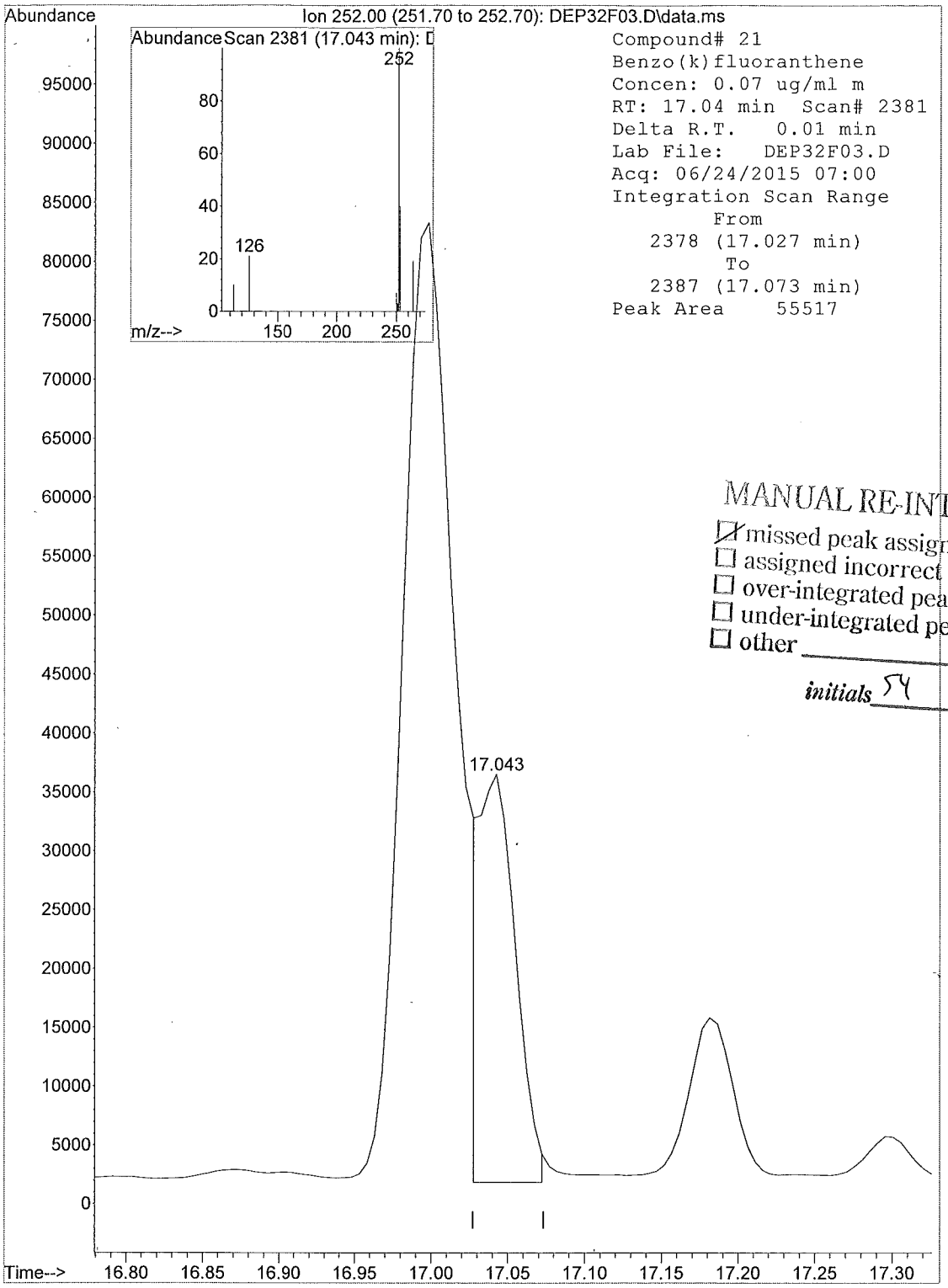
#24
Dibenzo(a,h)anthracene
Concen: 0.03 ug/ml
RT: 20.50 min Scan# 3097
Delta R.T. 0.03 min
Lab File: DEP32F03.D
Acq: 06/24/2015 07:00

Tgt Ion:278 Resp: 19652

Ion	Ratio	Lower	Upper
278	100		
139	0.0	0.0	0.0
279	28.3	15.8	29.3
0	0.0	0.0	0.0



M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 9/25/15

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M84

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725004

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DEP33F04

Extraction: (Type) SONC

% Moisture: 21. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.0

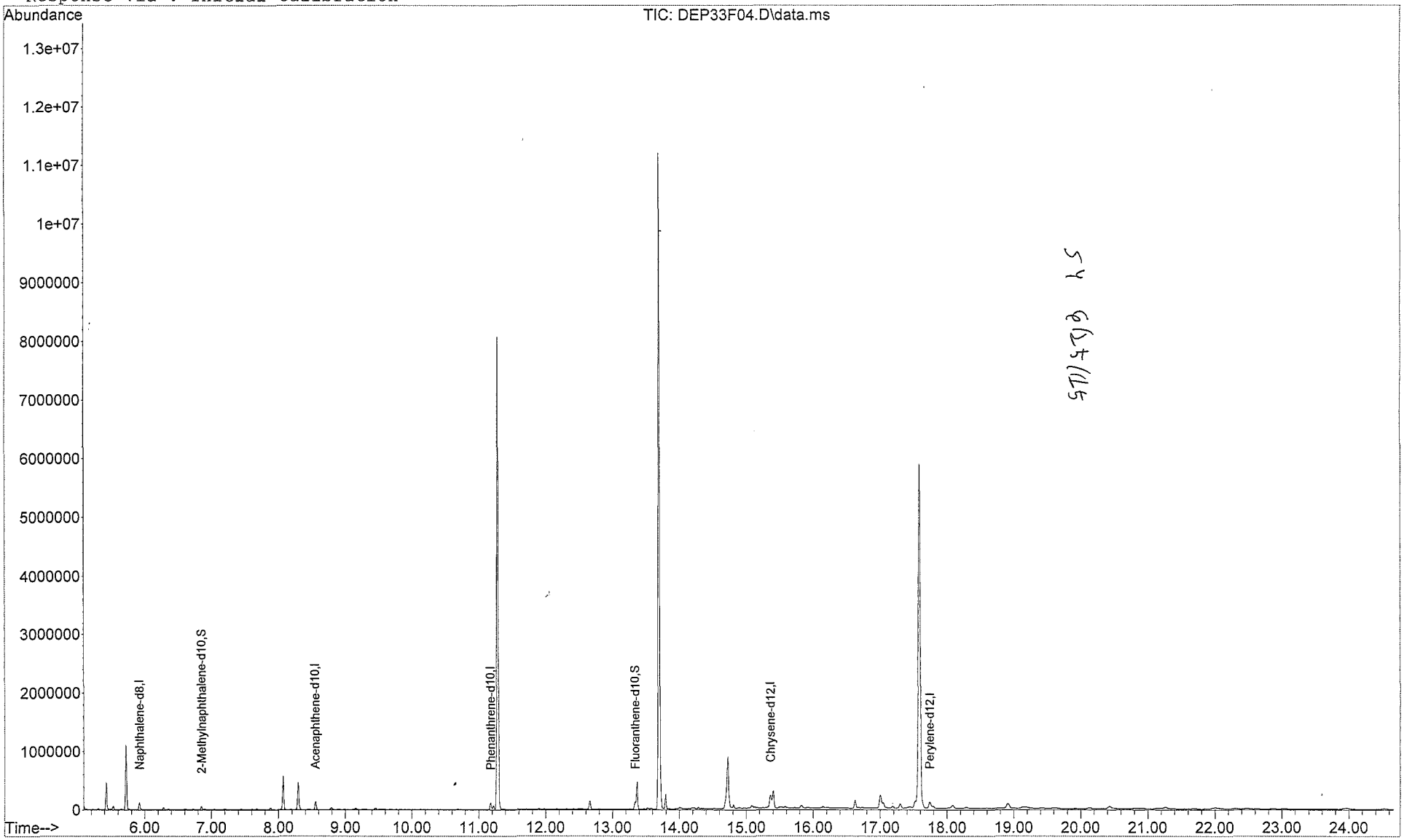
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	0.89	J
91-57-6	2-Methylnaphthalene	1.3	J
208-96-8	Acenaphthylene	3.4	J
83-32-9	Acenaphthene	4.1	U
86-73-7	Fluorene	4.1	U
87-86-5	Pentachlorophenol	1.4	J
85-01-8	Phenanthrene	6.1	
120-12-7	Anthracene	5.4	
206-44-0	Fluoranthene	29.	
129-00-0	Pyrene	24.	
56-55-3	Benzo(a)anthracene	8.2	
218-01-9	Chrysene	17.	
205-99-2	Benzo(b)fluoranthene	21.	
207-08-9	Benzo(k)fluoranthene	5.5	
50-32-8	Benzo(a)pyrene	6.9	
193-39-5	Indeno(1,2,3-cd)pyrene	8.6	
53-70-3	Dibenzo(a,h)anthracene	1.9	J
191-24-2	Benzo(g,h,i)perylene	3.8	J

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP33F04.D Vial: 30
Acq On : 06/24/2015 07:30 Operator: DJC
Sample : 1515725004 F9M84 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 25 10:32:36 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



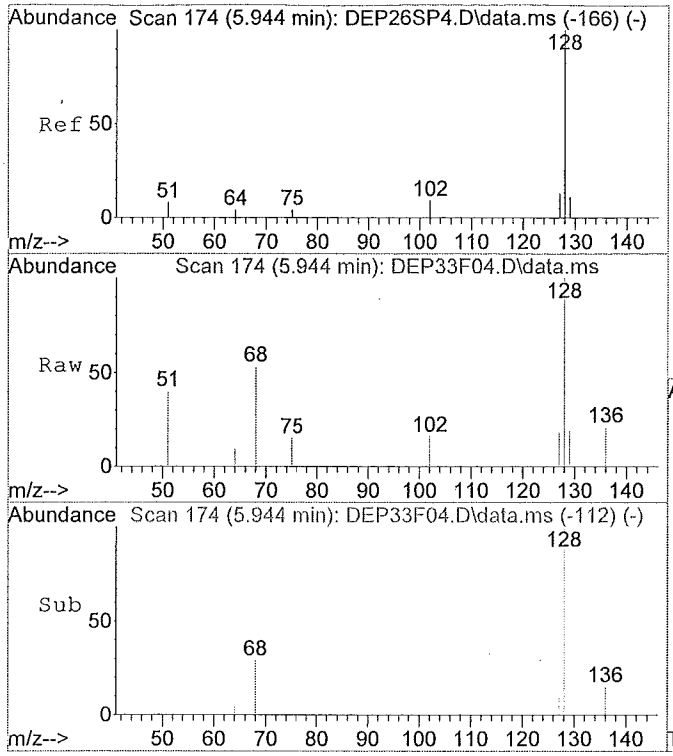
Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP33F04.D Vial: 30
Acq On : 06/24/2015 07:30 Operator: DJC
Sample : 1515725004 F9M84 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 10:32:36 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.92	136	131519	0.40 ug/ml	
5) Acenaphthene-d10	8.56	164	94063	0.40 ug/ml	
9) Phenanthrene-d10	11.18	188	157073	0.40 ug/ml	
15) Chrysene-d12	15.36	240	174482	0.40 ug/ml	
19) Perylene-d12	17.74	264	186600	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.85	152	61976	0.292ug/mL	
13) Fluoranthene-d10	13.34	212	141086	0.328ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.94	128	7282	0.021ug/ml	98
4) 2-Methylnaphthalene	6.90	142	6968	0.032ug/ml	98
6) Acenaphthylene	8.32	152	33616	0.082ug/ml	90
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	10.85	266	785	0.033ug/ml	100
11) Phenanthrene	11.22	178	66456	0.147ug/ml	100
12) Anthracene	11.31	178	56556	0.129ug/ml	95
14) Fluoranthene	13.37	202	359838	0.699ug/ml	93
16) Pyrene	13.72	202	320375	0.585ug/ml	77
17) Benzo(a)anthracene	15.35	228	91522	0.197ug/ml	87
18) Chrysene	15.39	228	204496	0.416ug/ml	95
20) Benzo(b)fluoranthene	17.00	252	290469	0.499ug/ml	99
21) Benzo(k)fluoranthene	17.04	252	79335	0.132ug/ml m SY 6/25/15	98
22) Benzo(a)pyrene	17.63	252	92199	0.166ug/ml	93
23) Indeno(1,2,3-c,d)pyrene	20.43	276	100365	0.206ug/ml	100
24) Dibenzo(a,h)anthracene	20.49	278	25098	0.047ug/ml	88
25) Benzo(g,h,i)perylene	21.26	276	49509	0.091ug/ml	65

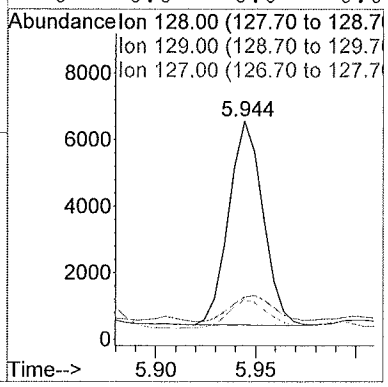
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

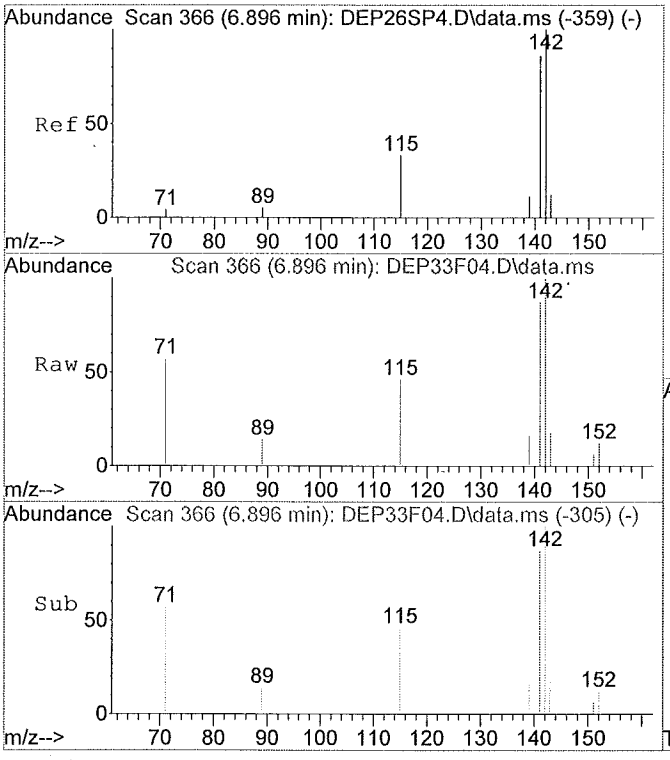


#2
Naphthalene
Concen: 0.02 ug/ml
RT: 5.94 min Scan# 174
Delta R.T. 0.00 min
Lab File: DEP33F04.D
Acq: 06/24/2015 07:30

Tgt Ion:128 Resp: 7282

Ion	Ratio	Lower	Upper
128	100		
129	15.4	0.0	0.0#
127	16.7	11.1	20.5
0	0.0	0.0	0.0

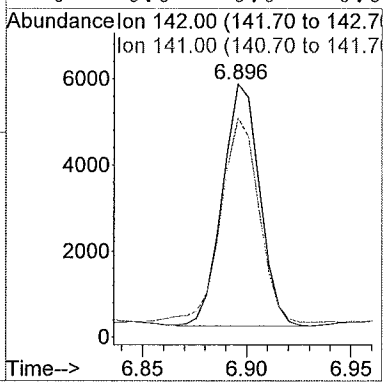


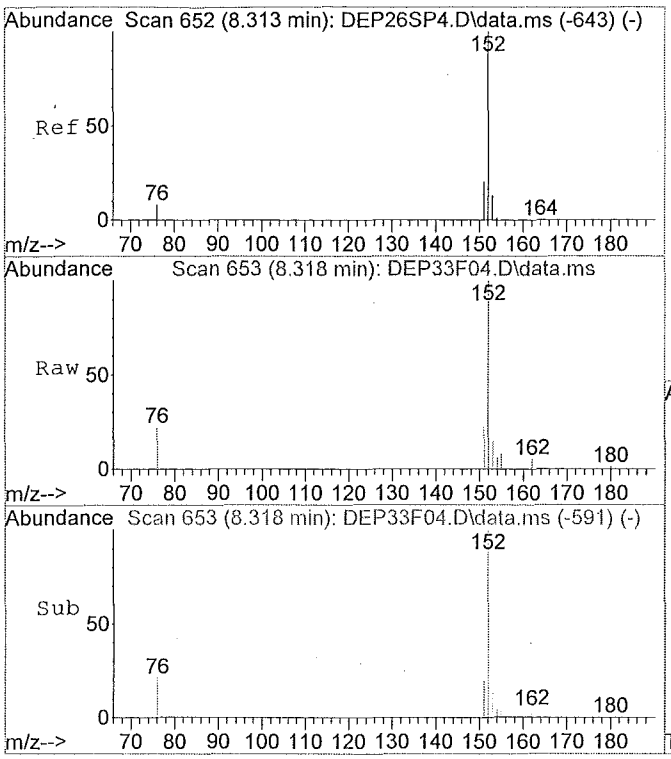


#4
2-Methylnaphthalene
Concen: 0.03 ug/ml
RT: 6.90 min Scan# 366
Delta R.T. -0.00 min
Lab File: DEP33F04.D
Acq: 06/24/2015 07:30

Tgt Ion:142 Resp: 6968

Ion	Ratio	Lower	Upper
142	100		
141	88.9	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

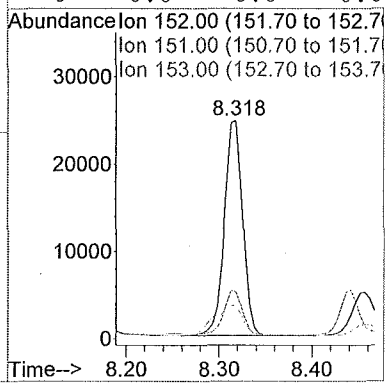


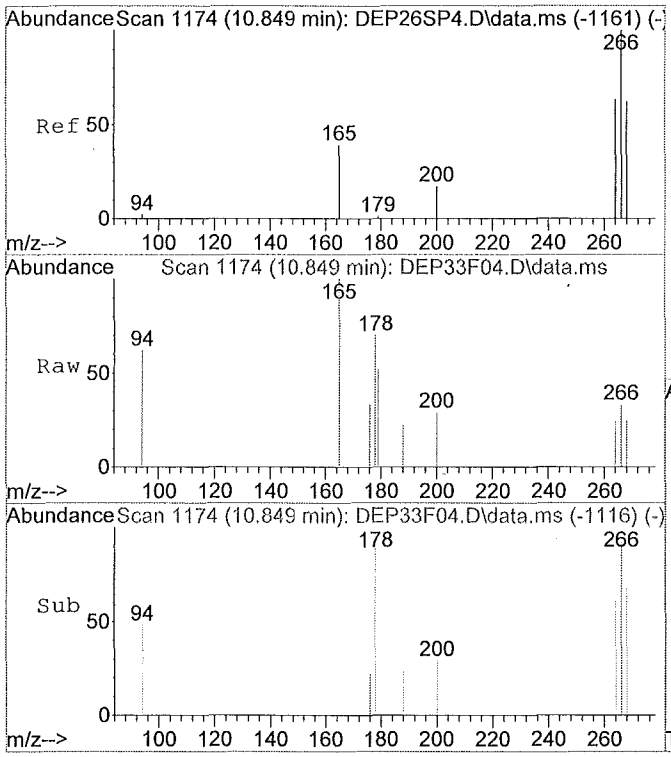


#6
Acenaphthylene
Concen: 0.08 ug/ml
RT: 8.32 min Scan# 653
Delta R.T. 0.01 min
Lab File: DEP33F04.D
Acq: 06/24/2015 07:30

Tgt Ion:152 Resp: 33616

Ion	Ratio	Lower	Upper
152	100		
151	20.5	15.5	28.7
153	21.4	8.8	16.4#
0	0.0	0.0	0.0

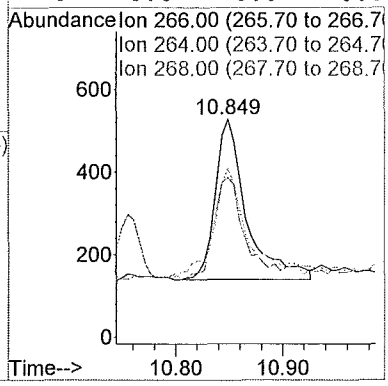


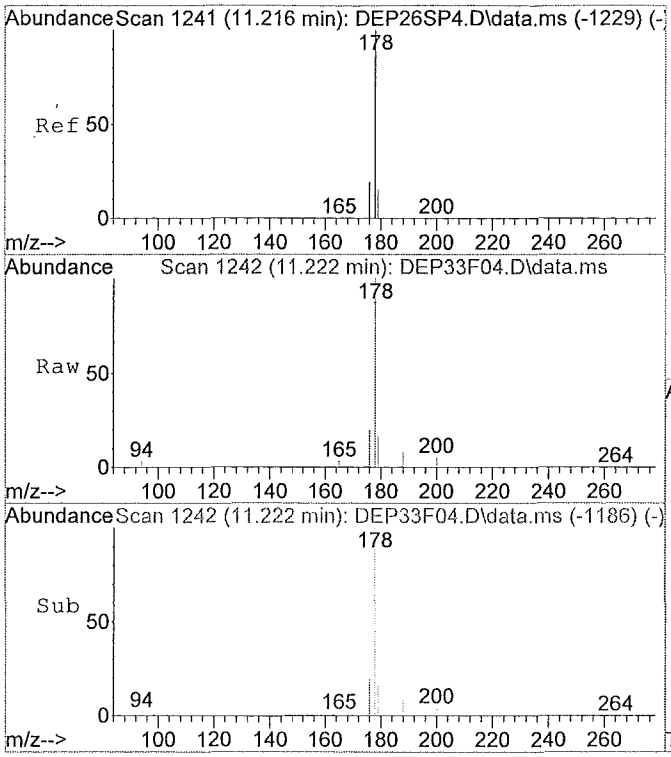


#10
Pentachlorophenol
Concen: 0.03 ug/ml
RT: 10.85 min Scan# 1174
Delta R.T. 0.02 min
Lab File: DEP33F04.D
Acq: 06/24/2015 07:30

Tgt Ion:266 Resp: 785

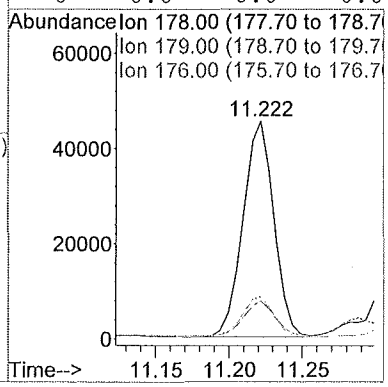
Ion	Ratio	Lower	Upper
266	100		
264	61.4	0.0	0.0#
268	70.1	0.0	0.0#
0	0.0	0.0	0.0

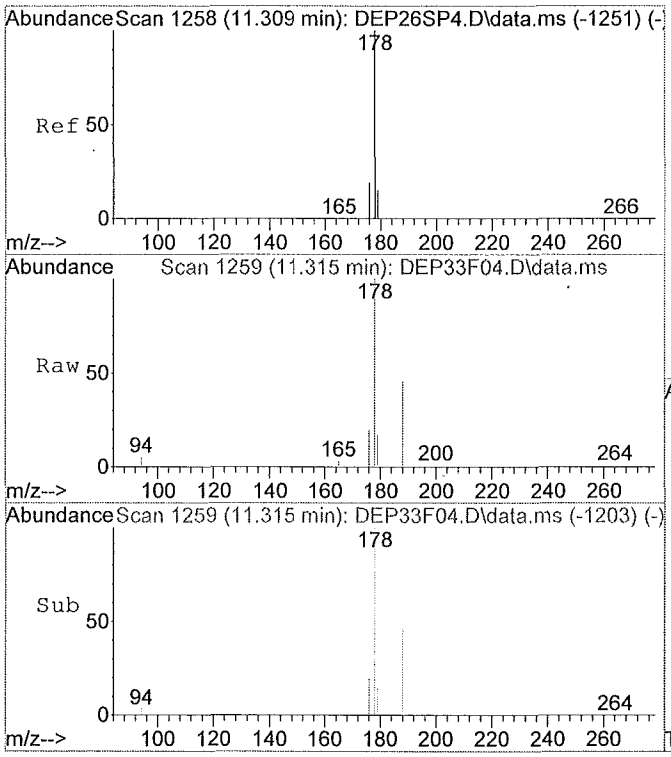




#11
Phenanthrene
Concen: 0.15 ug/ml
RT: 11.22 min Scan# 1242
Delta R.T. 0.01 min
Lab File: DEP33F04.D
Acq: 06/24/2015 07:30

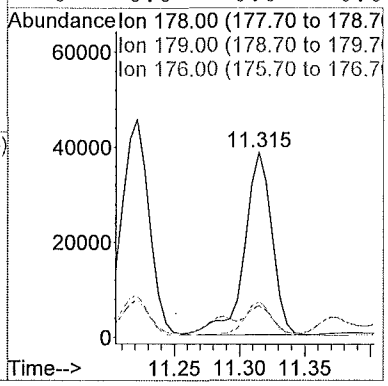
Tgt Ion:178	Resp:	66456	
Ion	Ratio	Lower	Upper
178	100		
179	15.9	11.1	20.5
176	20.2	14.1	26.1
0	0.0	0.0	0.0

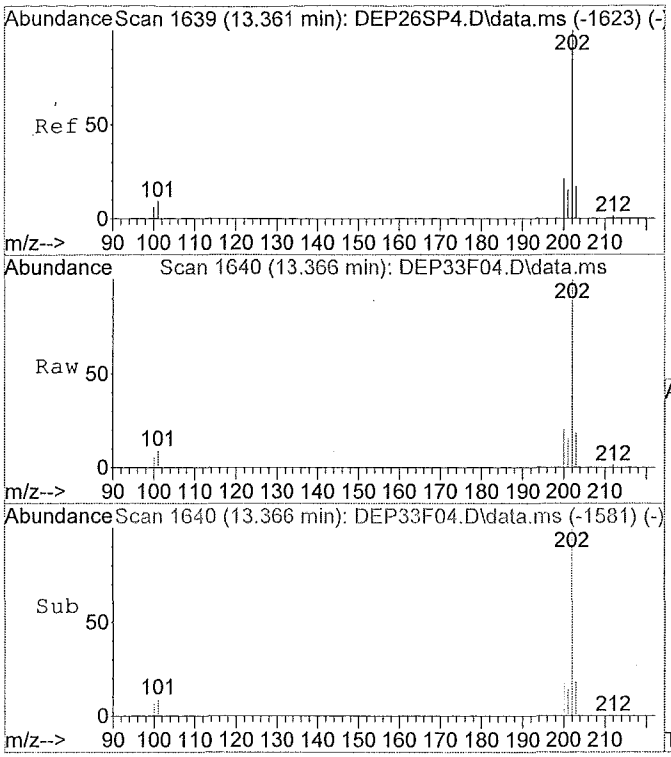




#12
Anthracene
Concen: 0.13 ug/ml
RT: 11.31 min Scan# 1259
Delta R.T. 0.01 min
Lab File: DEP33F04.D
Acq: 06/24/2015 07:30

Tgt Ion:178	Resp:	56556	
Ion	Ratio	Lower	Upper
178	100		
179	13.6	11.6	21.6
176	18.4	13.9	25.7
0	0.0	0.0	0.0

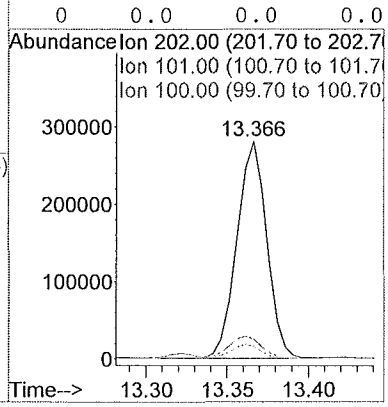


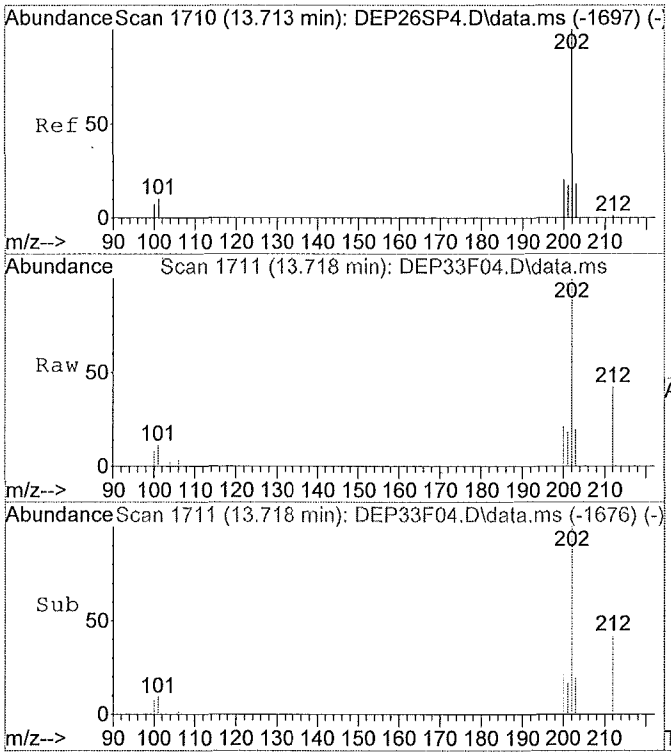


#14
Fluoranthene
Concen: 0.70 ug/ml
RT: 13.37 min Scan# 1640
Delta R.T. 0.00 min
Lab File: DEP33F04.D
Acq: 06/24/2015 07:30

Tgt Ion:202 Resp: 359838

Ion	Ratio	Lower	Upper
202	100		
101	10.8	9.4	17.6
100	6.8	0.0	0.0#
0	0.0	0.0	0.0

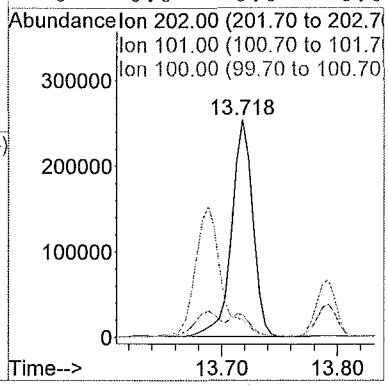


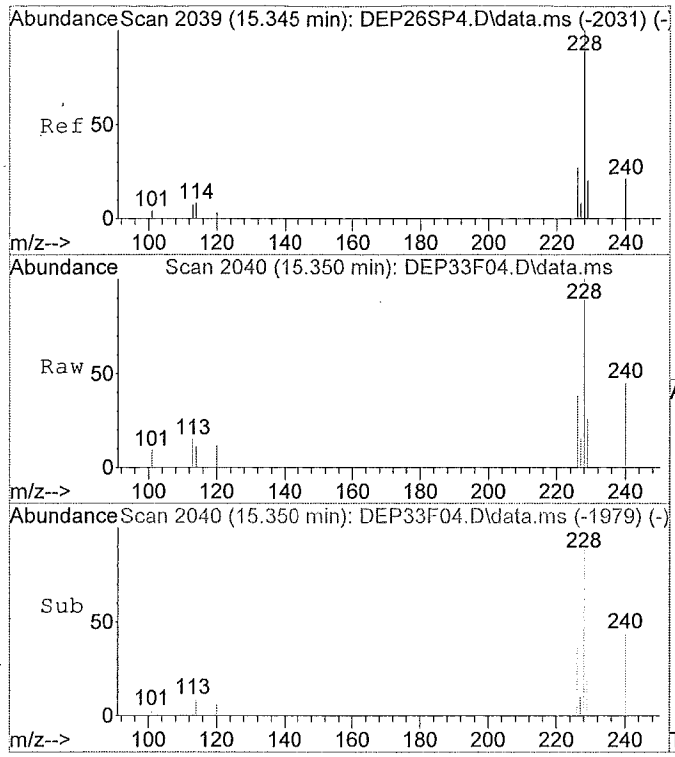


#16
Pyrene
Concen: 0.59 ug/ml
RT: 13.72 min Scan# 1711
Delta R.T. 0.00 min
Lab File: DEP33F04.D
Acq: 06/24/2015 07:30

Tgt Ion:202 Resp: 320375

Ion	Ratio	Lower	Upper
202	100		
101	9.6	10.6	19.6#
100	0.0	9.4	17.4#
0	0.0	0.0	0.0

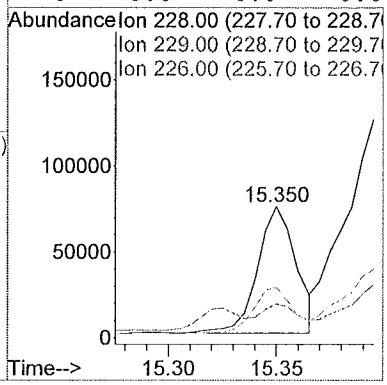


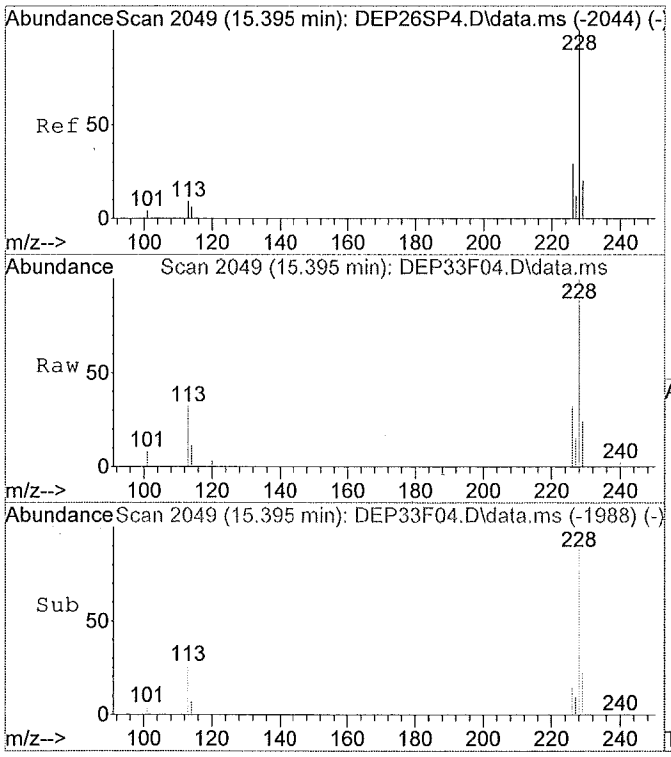


#17
Benzo(a)anthracene
Concen: 0.20 ug/ml
RT: 15.35 min Scan# 2040
Delta R.T. 0.00 min
Lab File: DEP33F04.D
Acq: 06/24/2015 07:30

Tgt Ion:228 Resp: 91522

Ion	Ratio	Lower	Upper
228	100		
229	20.7	14.5	26.9
226	37.9	18.5	34.3#
0	0.0	0.0	0.0

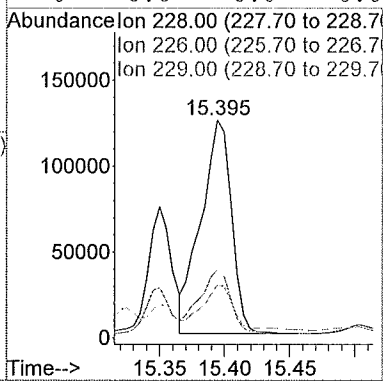


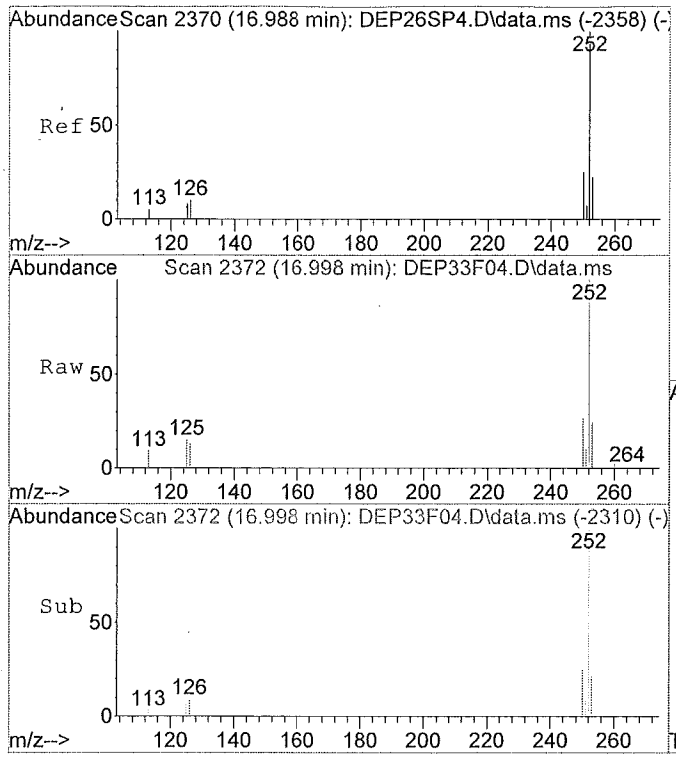


#18
Chrysene
Concen: 0.42 ug/ml
RT: 15.39 min Scan# 2049
Delta R.T. 0.00 min
Lab File: DEP33F04.D
Acq: 06/24/2015 07:30

Tgt Ion:228 Resp: 204496

Ion	Ratio	Lower	Upper
228	100		
226	31.2	19.7	36.7
229	22.5	14.5	26.9
0	0.0	0.0	0.0

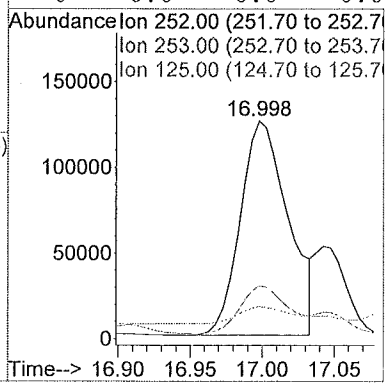


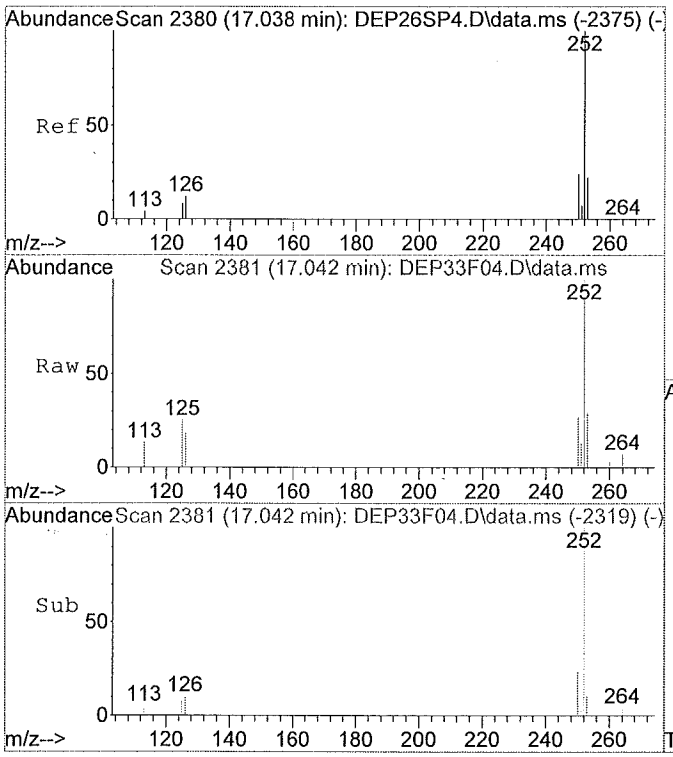


#20
Benzo(b)fluoranthene
Concen: 0.50 ug/ml
RT: 17.00 min Scan# 2372
Delta R.T. 0.01 min
Lab File: DEP33F04.D
Acq: 06/24/2015 07:30

Tgt Ion:252 Resp: 290469

Ion	Ratio	Lower	Upper
252	100		
253	22.4	15.3	28.3
125	8.8	0.0	0.0#
0	0.0	0.0	0.0

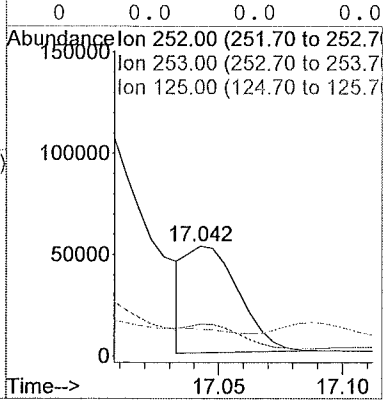


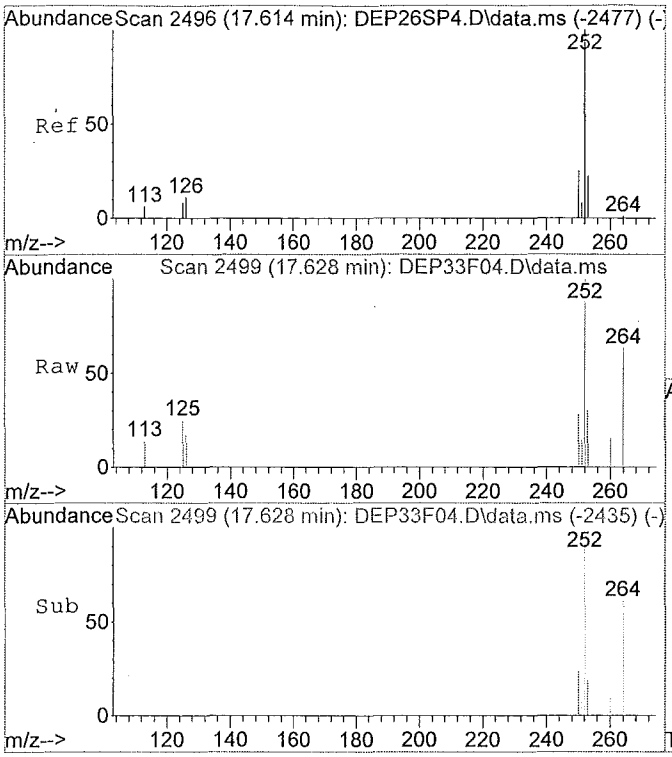


#21
Benzo(k)fluoranthene
Concen: 0.13 ug/ml m
RT: 17.04 min Scan# 2381
Delta R.T. 0.01 min
Lab File: DEP33F04.D
Acq: 06/24/2015 07:30

Tgt Ion:252 Resp: 79335

Ion	Ratio	Lower	Upper
252	100		
253	82.0	15.0	27.8#
125	32.3	0.0	0.0#
0	0.0	0.0	0.0

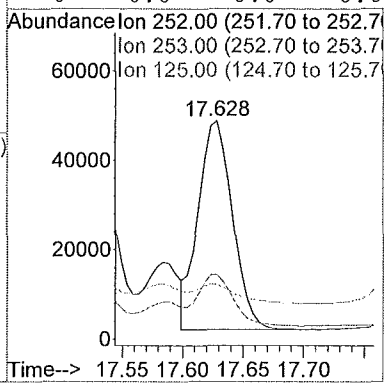


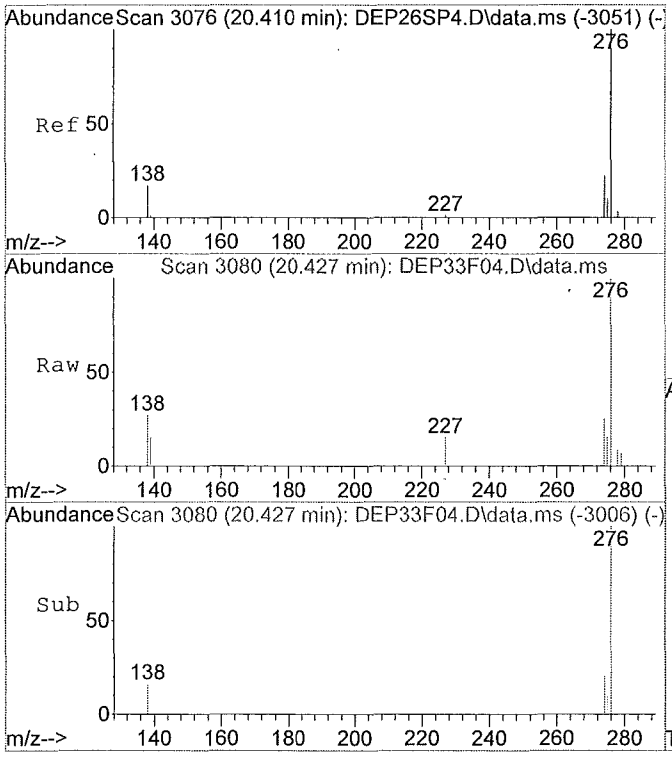


#22
Benzo(a)pyrene
Concen: 0.17 ug/ml
RT: 17.63 min Scan# 2499
Delta R.T. 0.02 min
Lab File: DEP33F04.D
Acq: 06/24/2015 07:30

Tgt Ion:252 Resp: 92199

Ion	Ratio	Lower	Upper
252	100		
253	24.8	15.0	27.8
125	10.7	0.0	0.0#
0	0.0	0.0	0.0

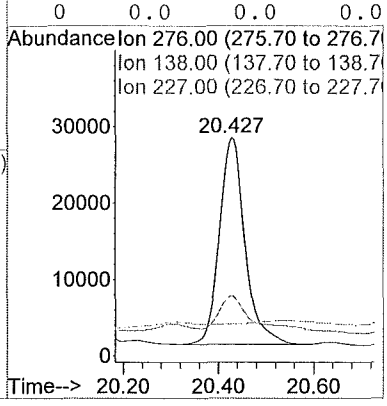


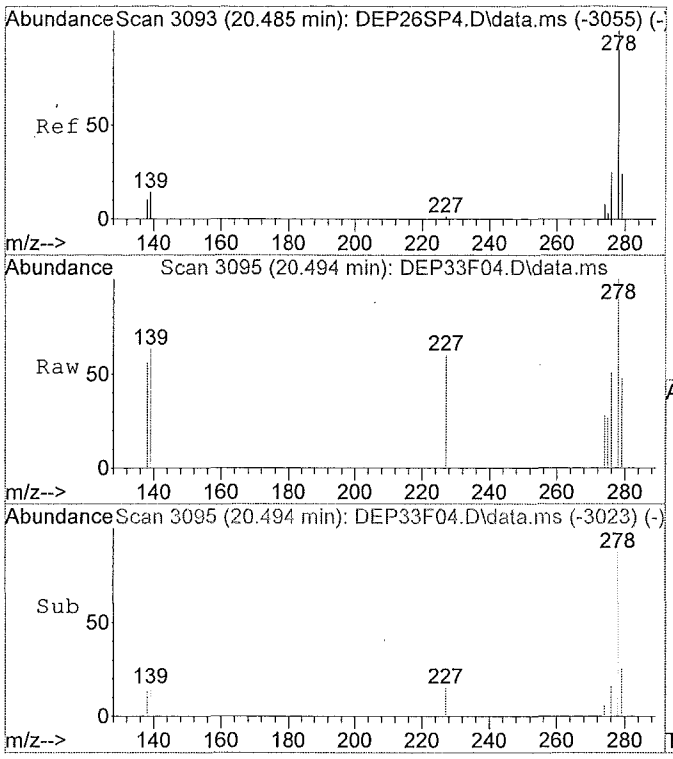


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.21 ug/ml
RT: 20.43 min Scan# 3080
Delta R.T. 0.03 min
Lab File: DEP33F04.D
Acq: 06/24/2015 07:30

Tgt Ion:276 Resp: 100365

Ion	Ratio	Lower	Upper
276	100		
138	21.1	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

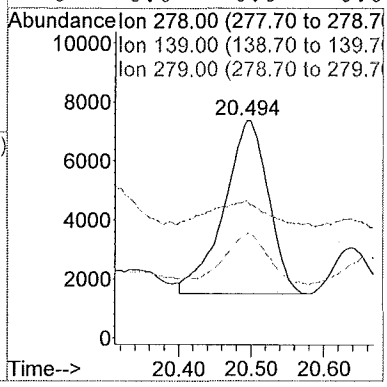


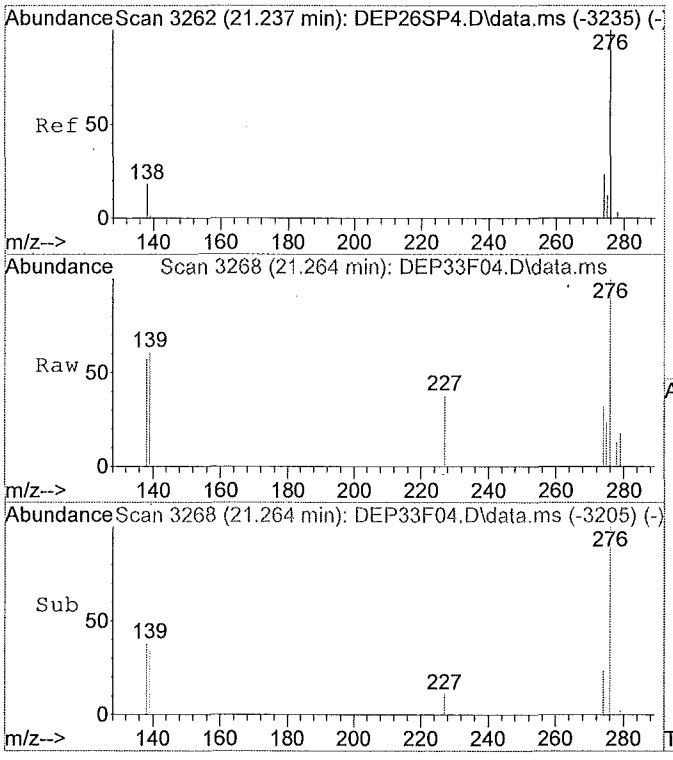


#24
Dibenzo(a,h)anthracene
Concen: 0.05 ug/ml
RT: 20.49 min Scan# 3095
Delta R.T. 0.02 min
Lab File: DEP33F04.D
Acq: 06/24/2015 07:30

Tgt Ion:278 Resp: 25098

Ion	Ratio	Lower	Upper
278	100		
139	17.1	0.0	0.0#
279	28.4	15.8	29.3
0	0.0	0.0	0.0

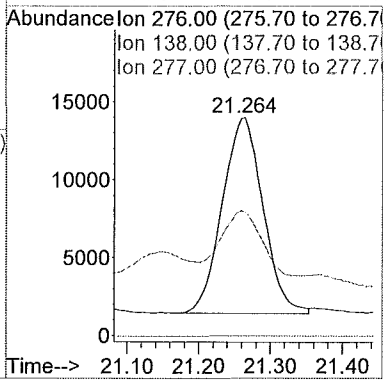




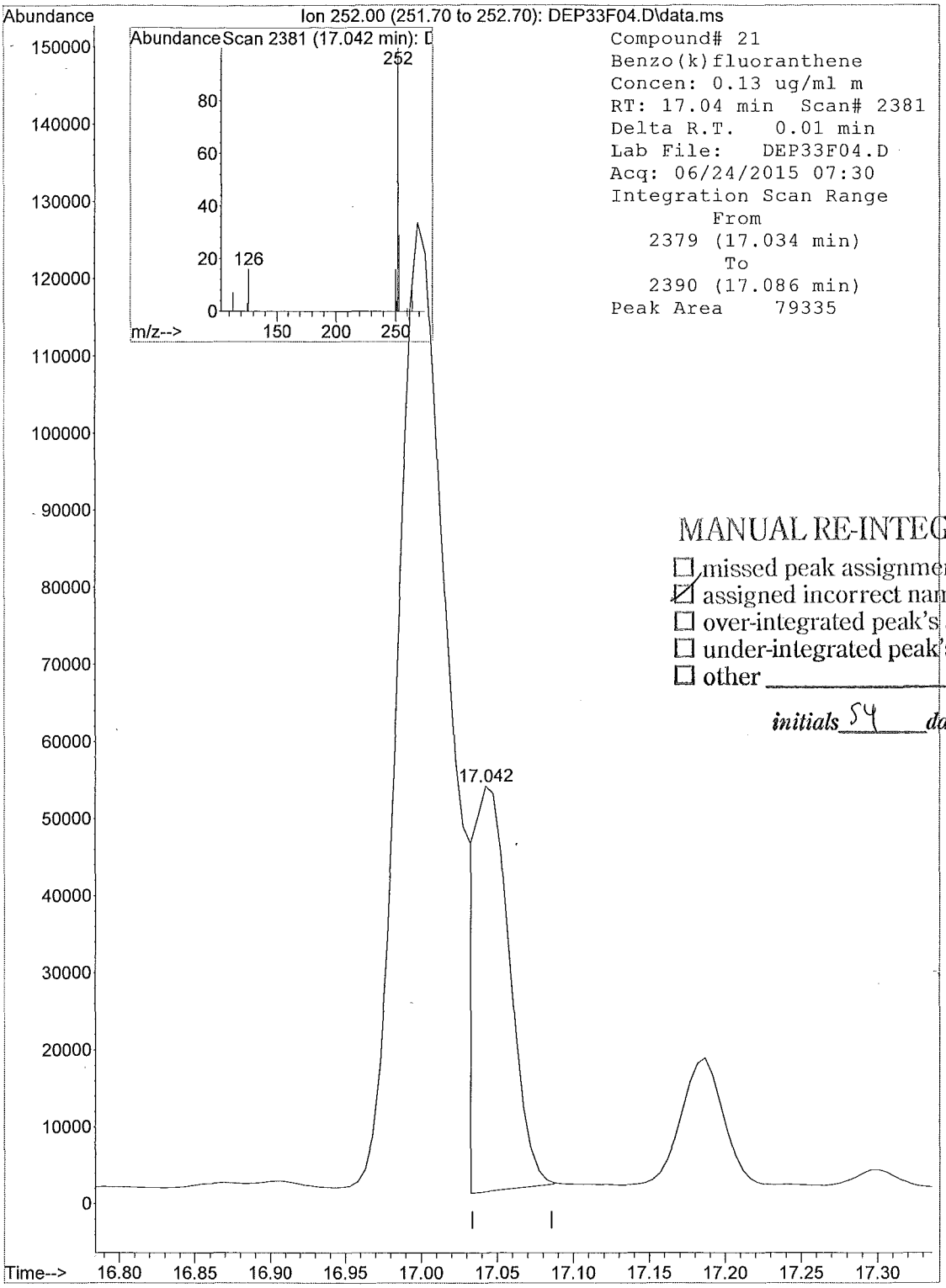
#25
Benzo(g,h,i)perylene
Concen: 0.09 ug/ml
RT: 21.26 min Scan# 3268
Delta R.T. 0.05 min
Lab File: DEP33F04.D
Acq: 06/24/2015 07:30

Tgt Ion:276 Resp: 49509

Ion	Ratio	Lower	Upper
276	100		
138	33.9	16.2	30.0#
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☑ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 6/25/15

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M85

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725005

Sample wt/vol: 30.5 (g/mL) g Lab File ID: DEP34F05

Extraction: (Type) SONC

% Moisture: 5.6 Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

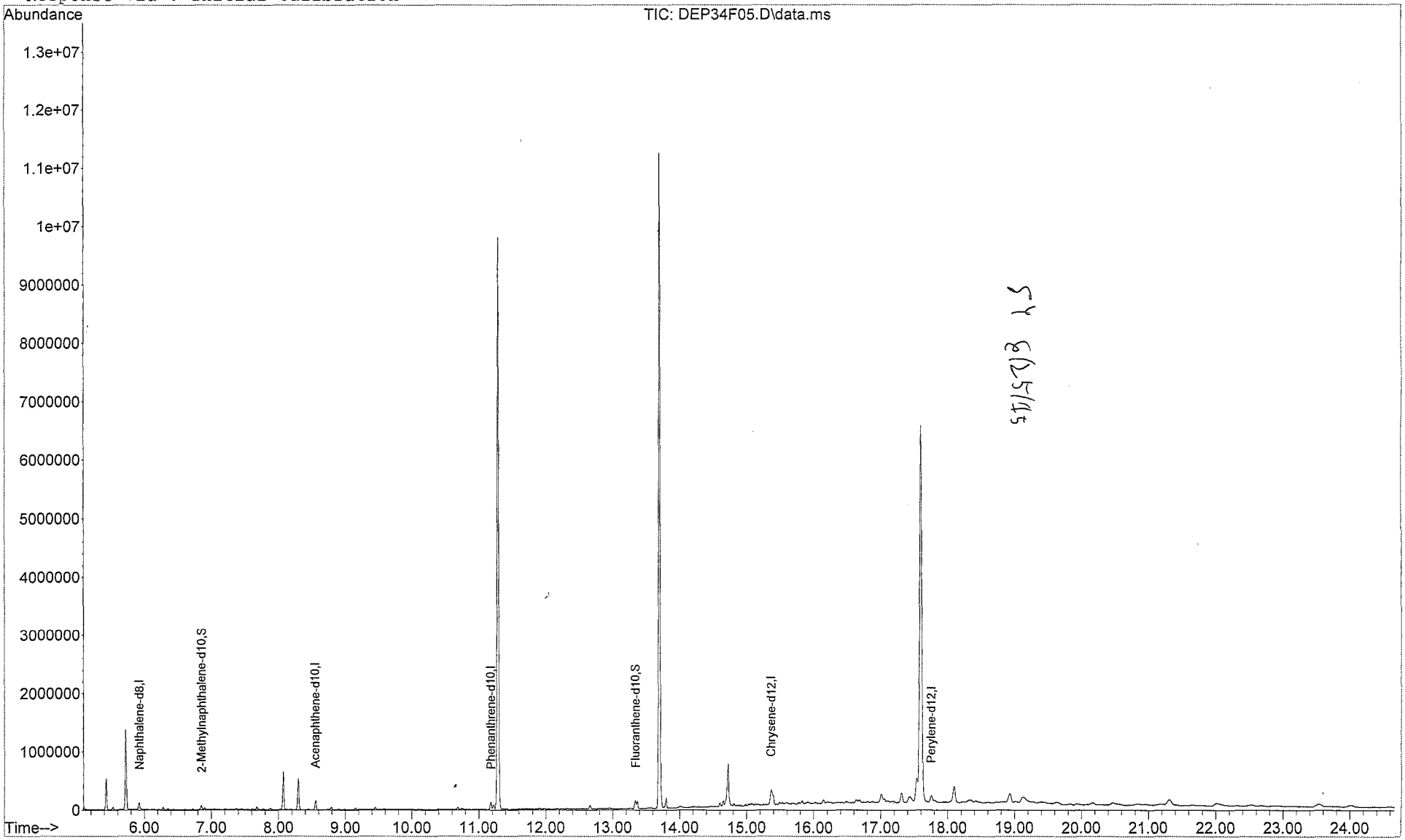
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	1.1	J
91-57-6	2-Methylnaphthalene	1.9	J
208-96-8	Acenaphthylene	1.0	J
83-32-9	Acenaphthene	3.4	U
86-73-7	Fluorene	3.4	U
87-86-5	Pentachlorophenol	7.0	U
85-01-8	Phenanthrene	4.4	
120-12-7	Anthracene	4.9	
206-44-0	Fluoranthene	6.0	
129-00-0	Pyrene	9.1	
56-55-3	Benzo(a)anthracene	4.5	
218-01-9	Chrysene	9.7	
205-99-2	Benzo(b)fluoranthene	12.	
207-08-9	Benzo(k)fluoranthene	2.0	J
50-32-8	Benzo(a)pyrene	5.2	
193-39-5	Indeno(1,2,3-cd)pyrene	7.7	
53-70-3	Dibenzo(a,h)anthracene	2.6	J
191-24-2	Benzo(g,h,i)perylene	16.	

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP34F05.D Vial: 31
Acq On : 06/24/2015 08:01 Operator: DJC
Sample : 1515725005 F9M85 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 25 10:33:08 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



DEP34F05.D DSOM_SIMJ2.M Thu Jun 25 10:40:24 2015 Page 2

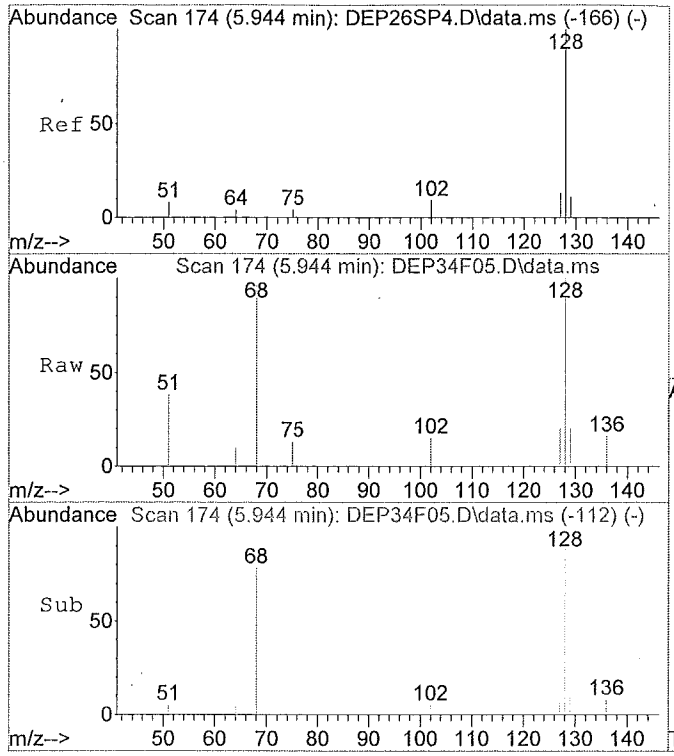
Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP34F05.D Vial: 31
Acq On : 06/24/2015 08:01 Operator: DJC
Sample : 1515725005 F9M85 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 10:33:08 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.92	136	138257	0.40 ug/ml	
5) Acenaphthene-d10	8.55	164	103100	0.40 ug/ml	
9) Phenanthrene-d10	11.18	188	175105	0.40 ug/ml	
15) Chrysene-d12	15.36	240	210610	0.40 ug/ml	
19) Perylene-d12	17.75	264	191404	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.85	152	74344	0.333ug/mL	
13) Fluoranthene-d10	13.34	212	157859	0.330ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.94	128	11150	0.031ug/ml	94
4) 2-Methylnaphthalene	6.90	142	12816	0.055ug/ml	99
6) Acenaphthylene	8.32	152	13591	0.030ug/ml	72
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.22	178	63987	0.127ug/ml	96
12) Anthracene	11.31	178	68584	0.140ug/ml	97
14) Fluoranthene	13.37	202	99716	0.174ug/ml	91
16) Pyrene	13.72	202	171938	0.260ug/ml	1
17) Benzo(a)anthracene	15.35	228	73043	0.130ug/ml	57
18) Chrysene	15.39	228	165527	0.279ug/ml	47
20) Benzo(b)fluoranthene	17.01	252	200633	0.336ug/ml	94
21) Benzo(k)fluoranthene	17.05	252	36422	0.059ug/ml m	93
22) Benzo(a)pyrene	17.64	252	84577	0.148ug/ml	77
23) Indeno(1,2,3-c,d)pyrene	20.47	276	110533	0.222ug/ml	100
24) Dibenzo(a,h)anthracene	20.53	278	41239	0.075ug/ml	92
25) Benzo(g,h,i)perylene	21.31	276	258100	0.460ug/ml	72

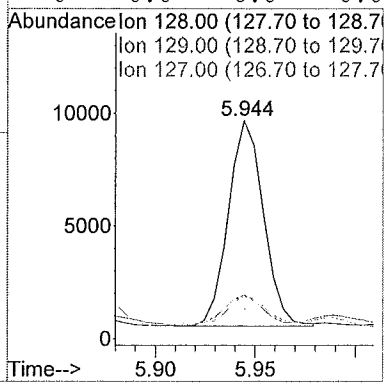
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

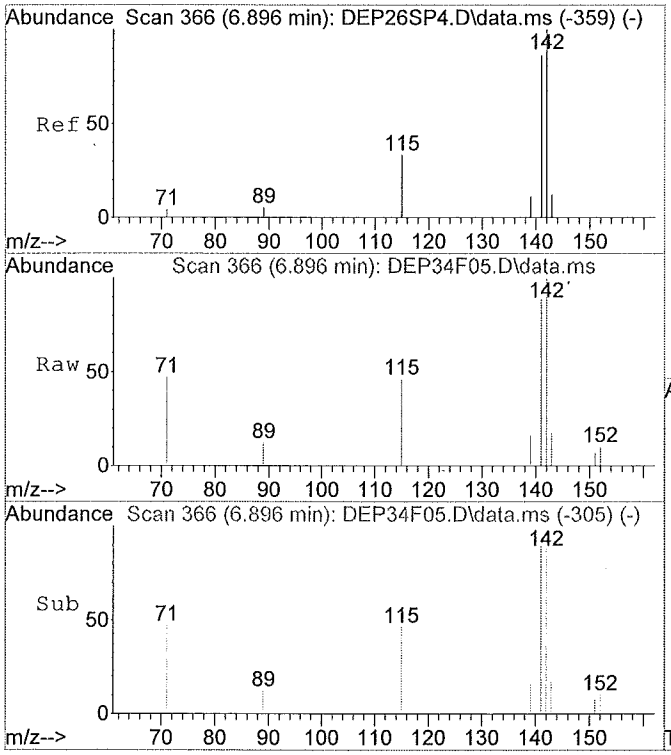


#2
Naphthalene
Concen: 0.03 ug/ml
RT: 5.94 min Scan# 174
Delta R.T. 0.00 min
Lab File: DEP34F05.D
Acq: 06/24/2015 08:01

Tgt Ion:128 Resp: 11150

Ion	Ratio	Lower	Upper
128	100		
129	16.2	0.0	0.0#
127	18.2	11.1	20.5
0	0.0	0.0	0.0

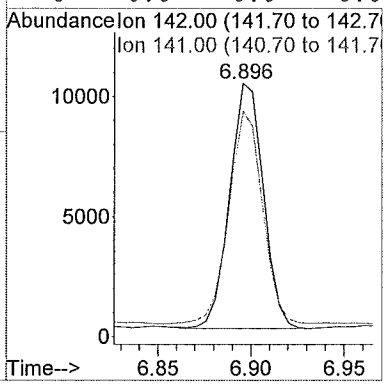


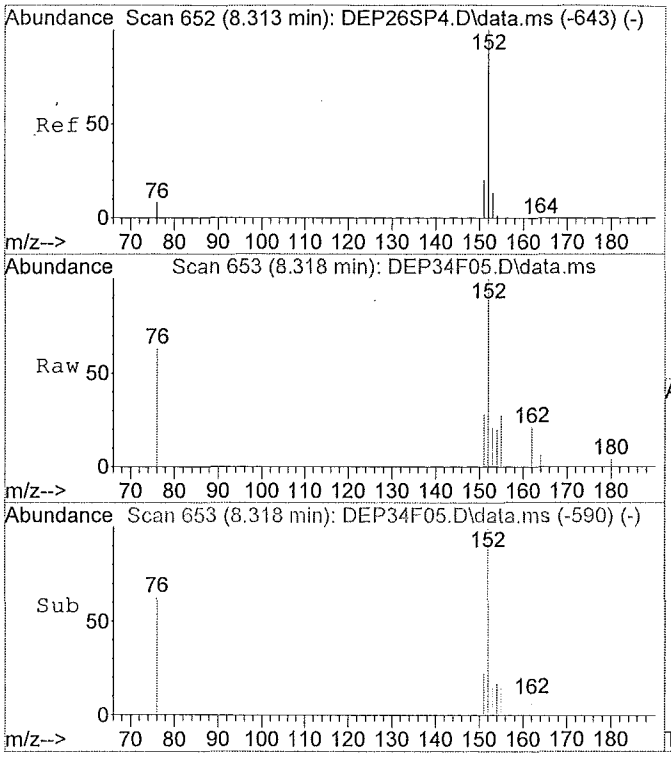


#4
2-Methylnaphthalene
Concen: 0.06 ug/ml
RT: 6.90 min Scan# 366
Delta R.T. 0.00 min
Lab File: DEP34F05.D
Acq: 06/24/2015 08:01

Tgt Ion:142 Resp: 12816

Ion	Ratio	Lower	Upper
142	100		
141	88.6	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

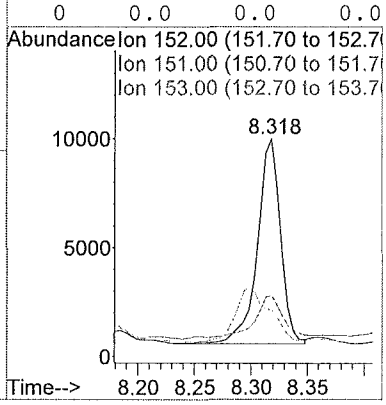


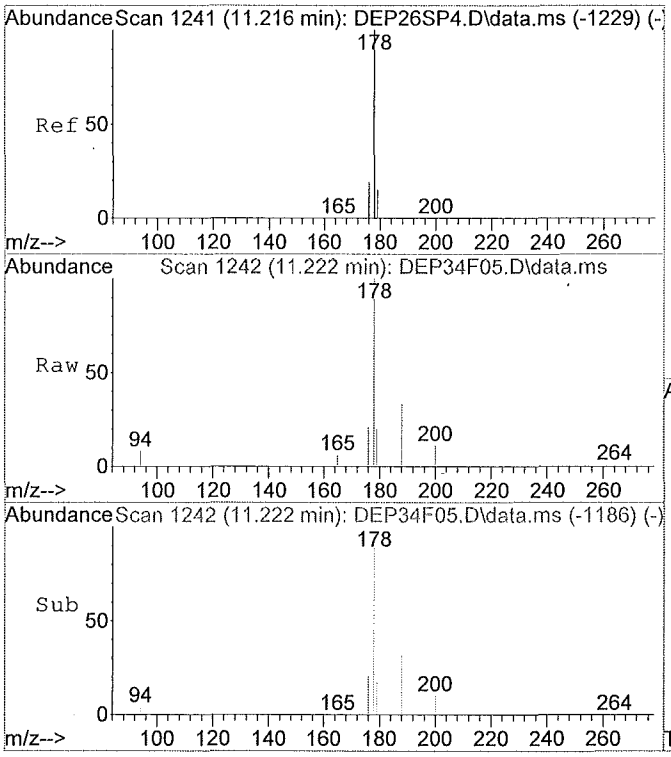


#6
Acenaphthylene
Concen: 0.03 ug/ml
RT: 8.32 min Scan# 653
Delta R.T. 0.01 min
Lab File: DEP34F05.D
Acq: 06/24/2015 08:01

Tgt Ion:152 Resp: 13591

Ion	Ratio	Lower	Upper
152	100		
151	23.7	15.5	28.7
153	41.0	8.8	16.4#
0	0.0	0.0	0.0

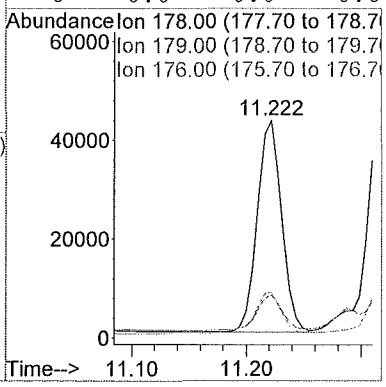


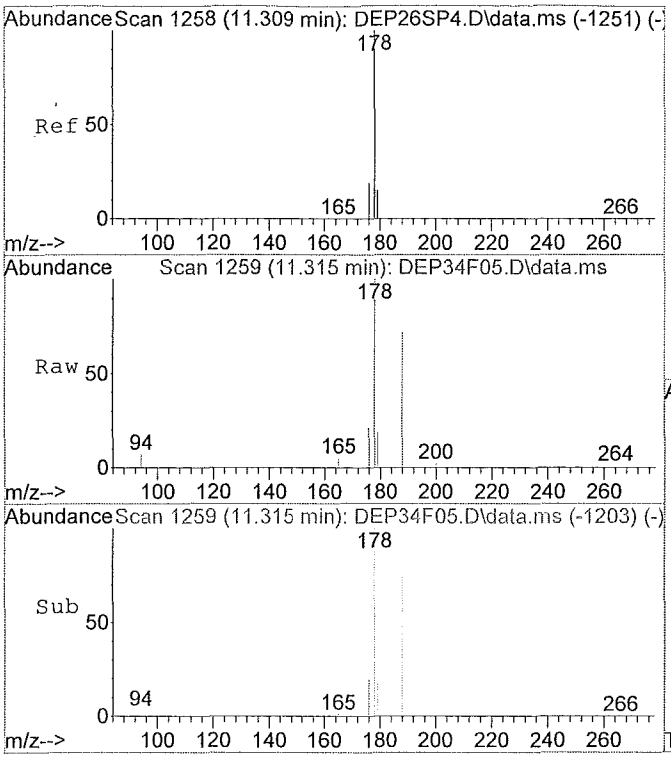


#11
Phenanthrene
Concen: 0.13 ug/ml
RT: 11.22 min Scan# 1242
Delta R.T. 0.01 min
Lab File: DEP34F05.D
Acq: 06/24/2015 08:01

Tgt Ion:178 Resp: 63987

Ion	Ratio	Lower	Upper
178	100		
179	17.7	11.1	20.5
176	21.5	14.1	26.1
0	0.0	0.0	0.0

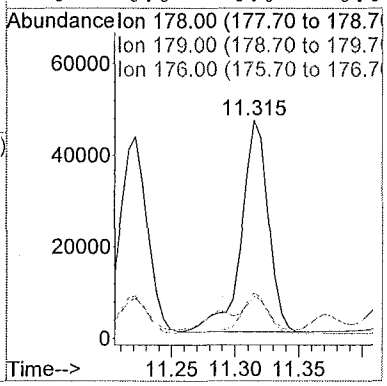


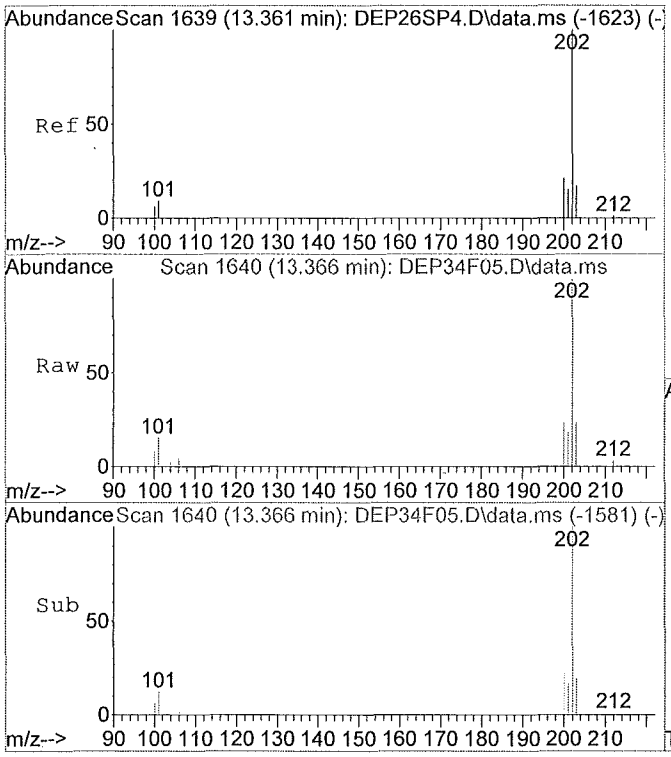


#12
Anthracene
Concen: 0.14 ug/ml
RT: 11.31 min Scan# 1259
Delta R.T. 0.01 min
Lab File: DEP34F05.D
Acq: 06/24/2015 08:01

Tgt Ion:178 Resp: 68584

Ion	Ratio	Lower	Upper
178	100		
179	14.2	11.6	21.6
176	19.5	13.9	25.7
0	0.0	0.0	0.0

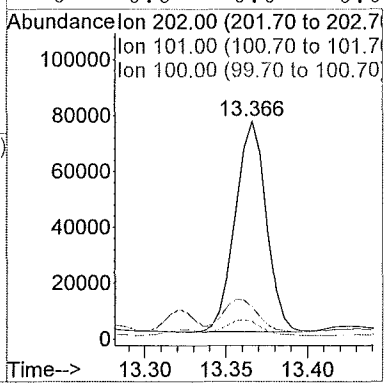


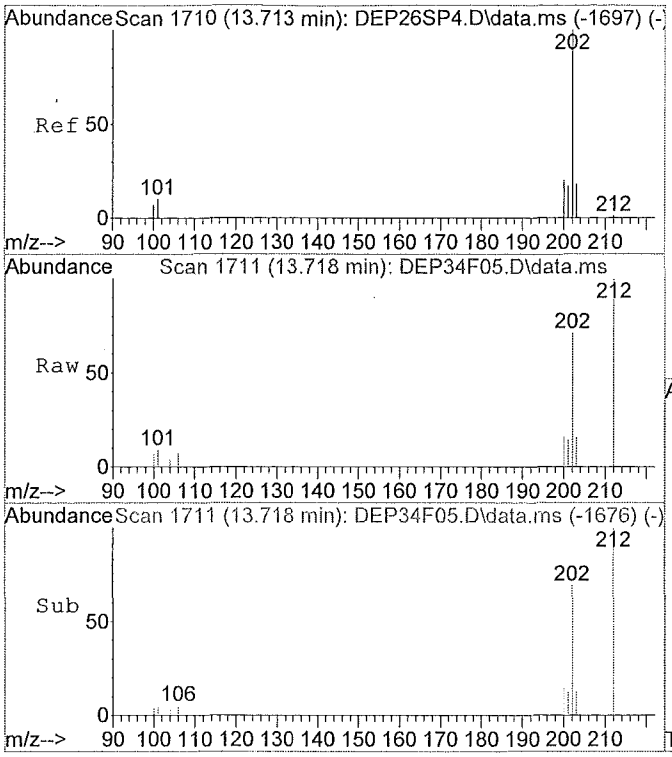


#14
Fluoranthene
Concen: 0.17 ug/ml
RT: 13.37 min Scan# 1640
Delta R.T. 0.00 min
Lab File: DEP34F05.D
Acq: 06/24/2015 08:01

Tgt Ion:202 Resp: 99716

Ion	Ratio	Lower	Upper
202	100		
101	17.2	9.4	17.6
100	8.2	0.0	0.0#
0	0.0	0.0	0.0

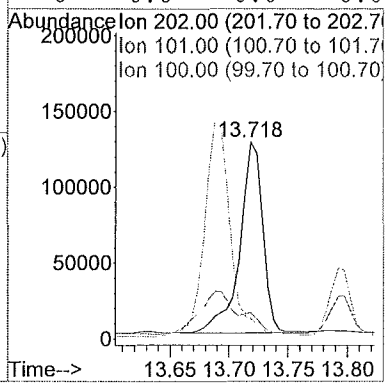


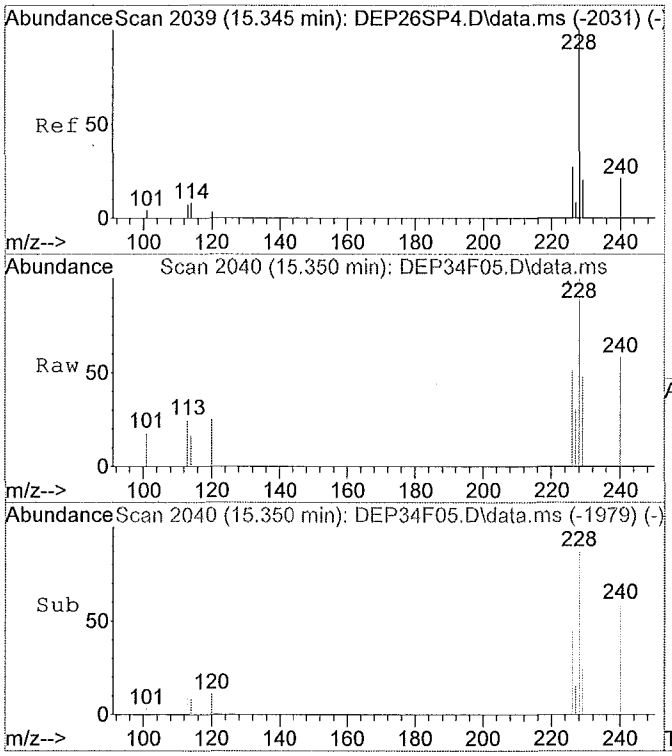


#16
Pyrene
Concen: 0.26 ug/ml
RT: 13.72 min Scan# 1711
Delta R.T. 0.00 min
Lab File: DEP34F05.D
Acq: 06/24/2015 08:01

Tgt Ion:202 Resp: 171938

Ion	Ratio	Lower	Upper
202	100		
101	39.4	10.6	19.6#
100	128.0	9.4	17.4#
0	0.0	0.0	0.0

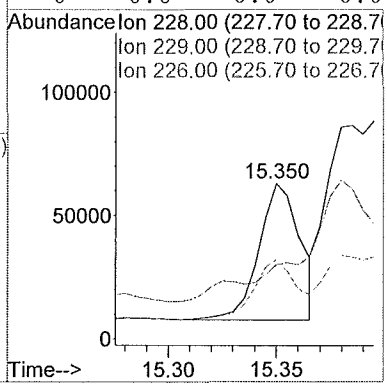




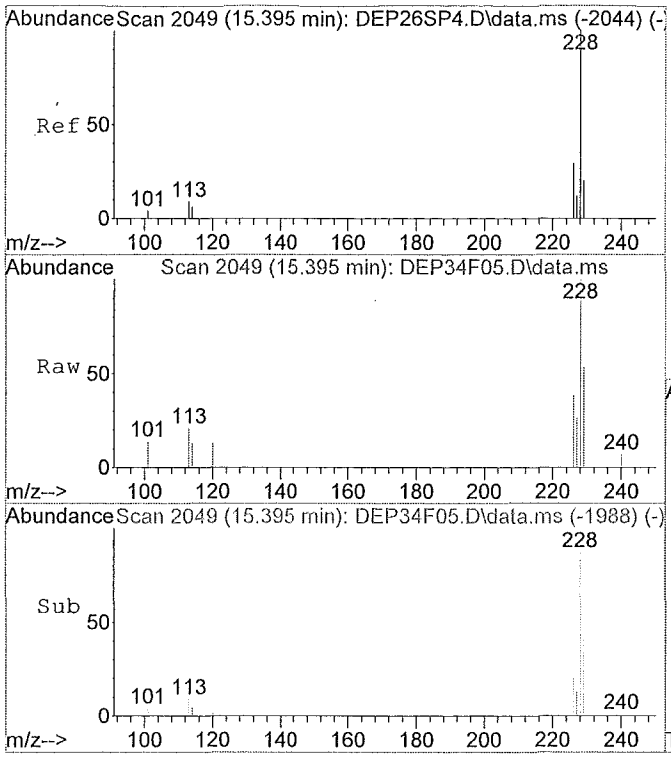
#17
Benzo(a)anthracene
Concen: 0.13 ug/ml
RT: 15.35 min Scan# 2040
Delta R.T. 0.00 min
Lab File: DEP34F05.D
Acq: 06/24/2015 08:01

Tgt Ion:228 Resp: 73043

Ion	Ratio	Lower	Upper
228	100		
229	0.0	14.5	26.9#
226	47.6	18.5	34.3#
0	0.0	0.0	0.0



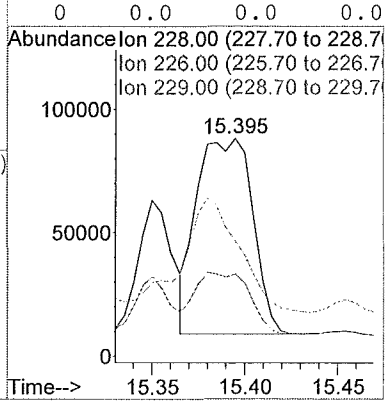
01132

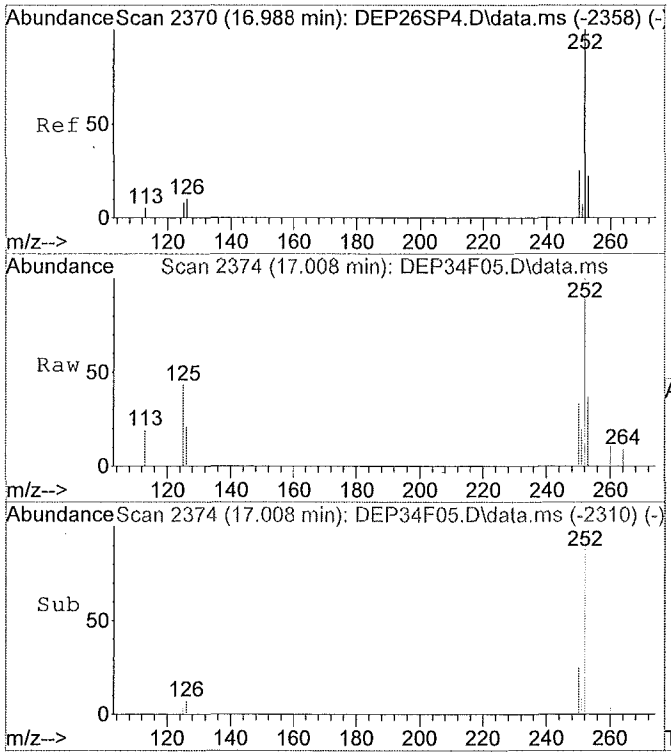


#18
Chrysene
Concen: 0.28 ug/ml
RT: 15.39 min Scan# 2049
Delta R.T. 0.00 min
Lab File: DEP34F05.D
Acq: 06/24/2015 08:01

Tgt Ion:228 Resp: 165527

Ion	Ratio	Lower	Upper
228	100		
226	30.5	19.7	36.7
229	76.1	14.5	26.9#
0	0.0	0.0	0.0

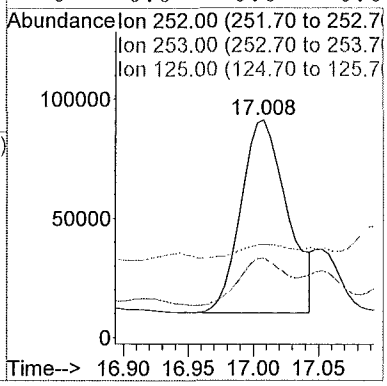


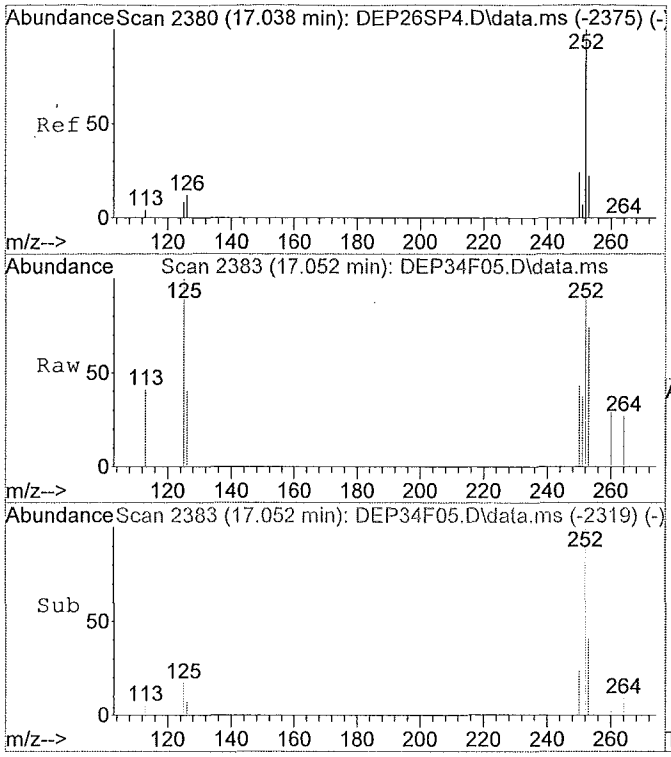


#20
Benzo(b)fluoranthene
Concen: 0.34 ug/ml
RT: 17.01 min Scan# 2374
Delta R.T. 0.02 min
Lab File: DEP34F05.D
Acq: 06/24/2015 08:01

Tgt Ion:252 Resp: 200633

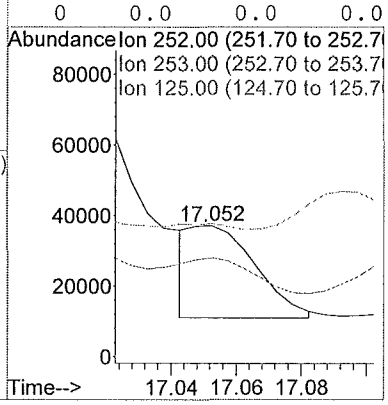
Ion	Ratio	Lower	Upper
252	100		
253	24.5	15.3	28.3
125	7.1	0.0	0.0#
0	0.0	0.0	0.0

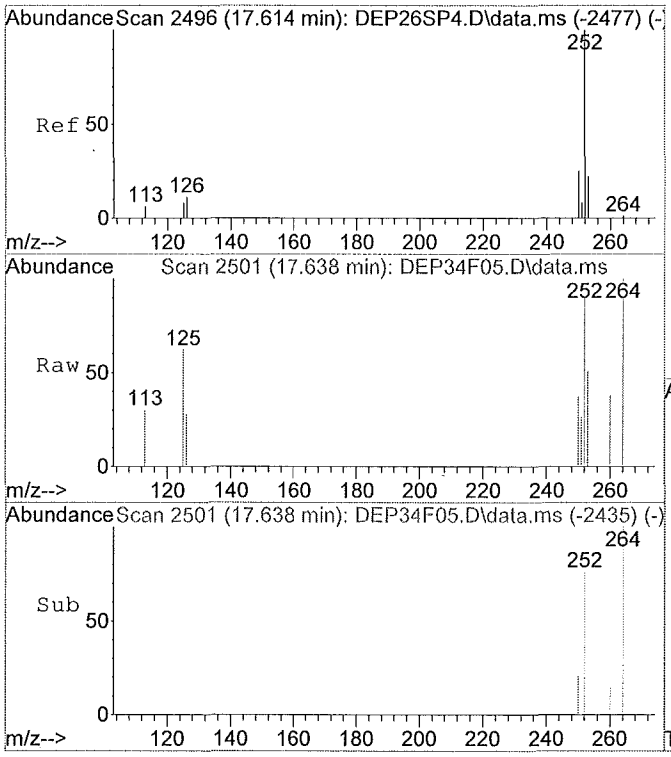




#21
Benzo(k)fluoranthene
Concen: 0.06 ug/ml m
RT: 17.05 min Scan# 2383
Delta R.T. 0.02 min
Lab File: DEP34F05.D
Acq: 06/24/2015 08:01

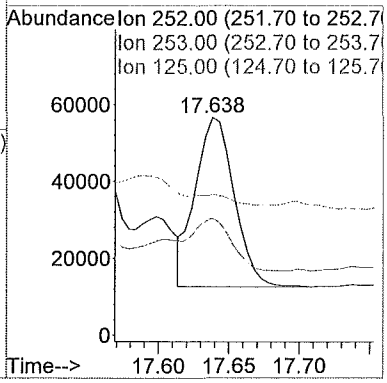
Tgt Ion:252	Resp:	36422	
Ion	Ratio	Lower	Upper
252	100		
253	135.0	15.0	27.8#
125	39.3	0.0	0.0#
0	0.0	0.0	0.0

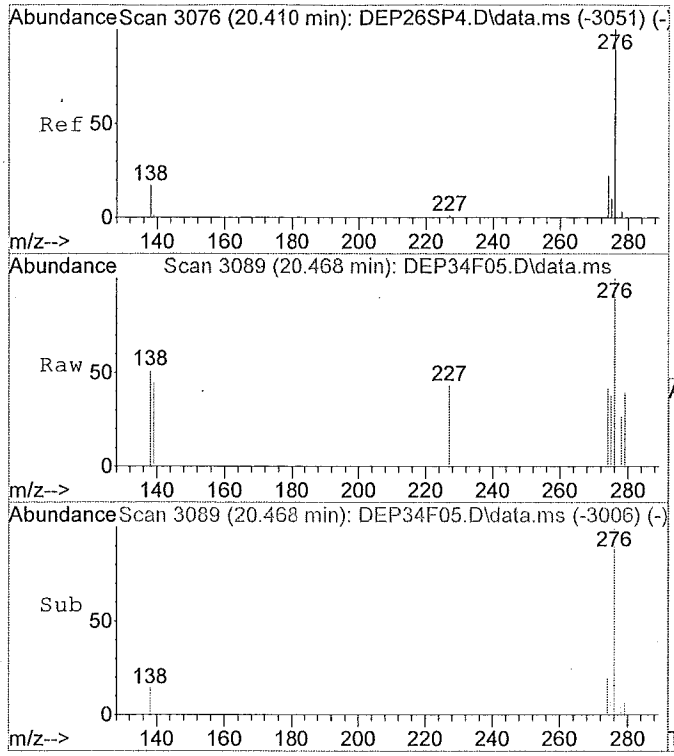




#22
Benzo(a)pyrene
Concen: 0.15 ug/ml
RT: 17.64 min Scan# 2501
Delta R.T. 0.03 min
Lab File: DEP34F05.D
Acq: 06/24/2015 08:01

Tgt Ion:252	Resp:	84577	
Ion	Ratio	Lower	Upper
252	100		
253	32.4	15.0	27.8#
125	0.0	0.0	0.0
0	0.0	0.0	0.0

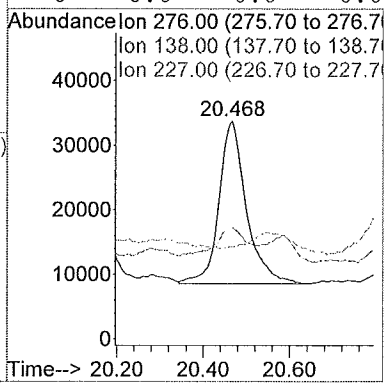


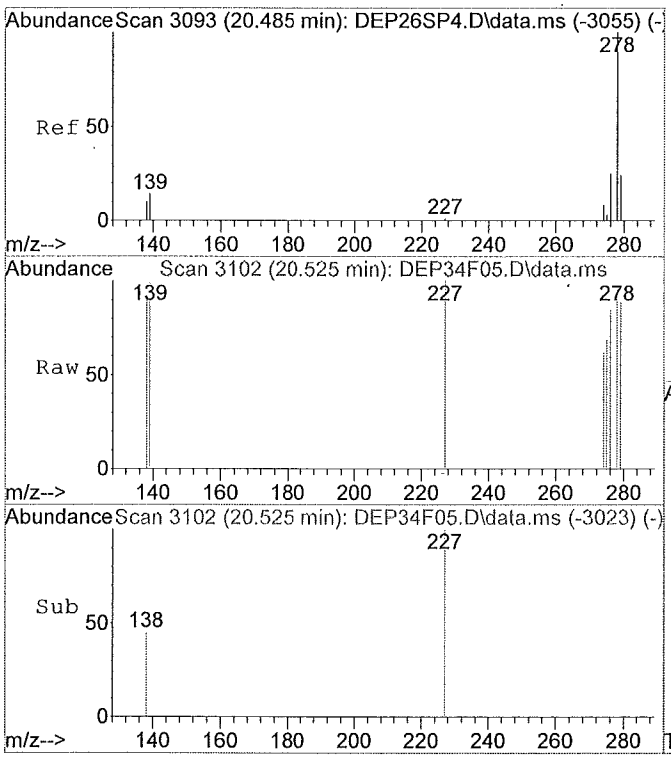


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.22 ug/ml
RT: 20.47 min Scan# 3089
Delta R.T. 0.07 min
Lab File: DEP34F05.D
Acq: 06/24/2015 08:01

Tgt Ion:276 Resp: 110533

Ion	Ratio	Lower	Upper
276	100		
138	18.8	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

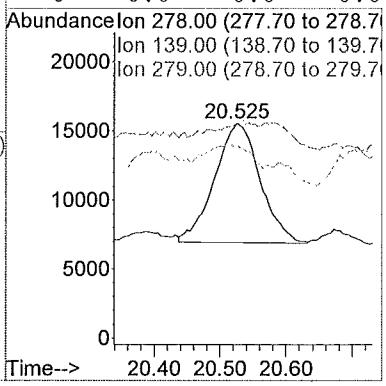


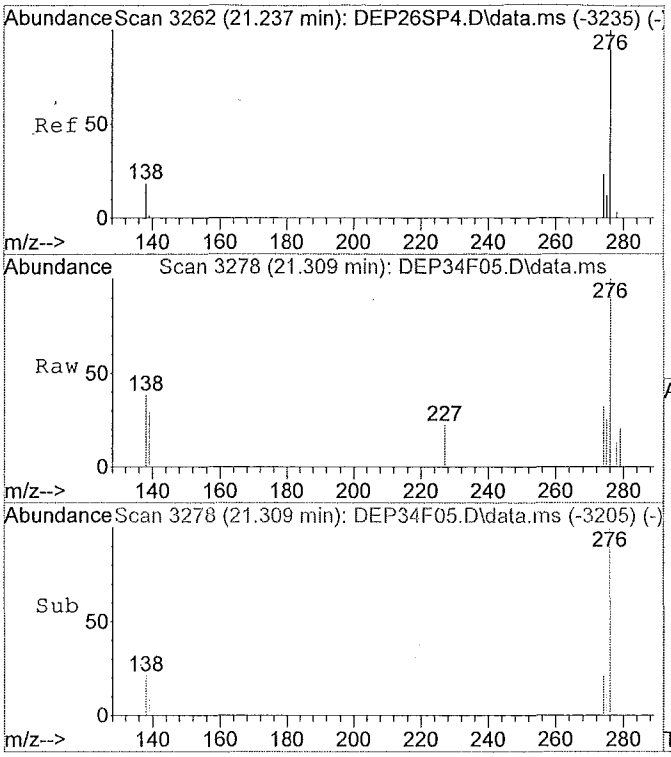


#24
Dibenzo(a,h)anthracene
Concen: 0.07 ug/ml
RT: 20.53 min Scan# 3102
Delta R.T. 0.05 min
Lab File: DEP34F05.D
Acq: 06/24/2015 08:01

Tgt Ion:278 Resp: 41239

Ion	Ratio	Lower	Upper
278	100		
139	0.0	0.0	0.0
279	18.9	15.8	29.3
0	0.0	0.0	0.0

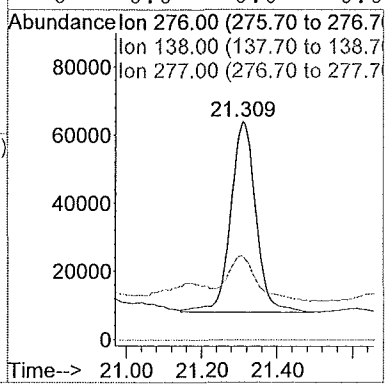




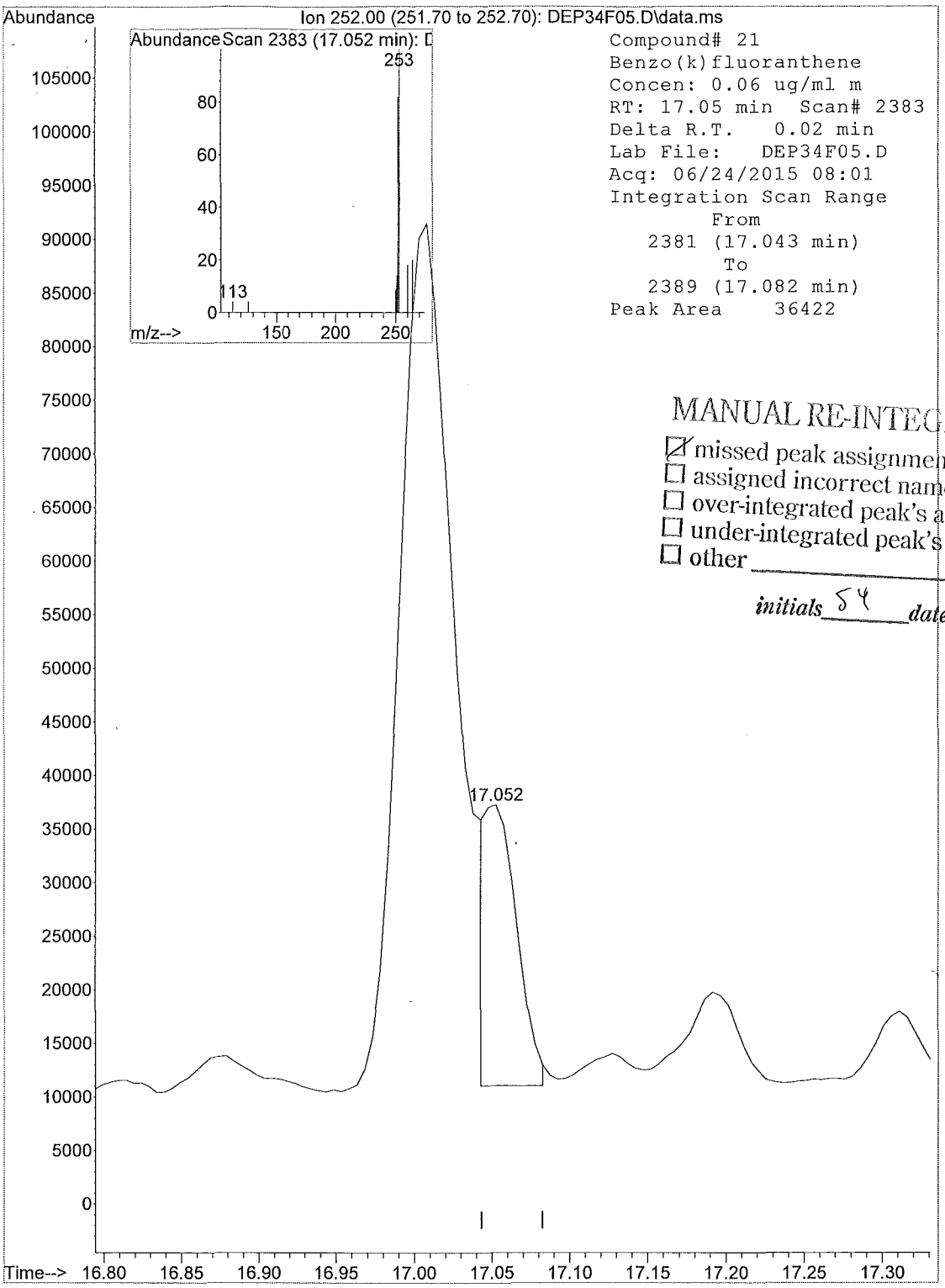
#25
Benzo(g,h,i)perylene
Concen: 0.46 ug/ml
RT: 21.31 min Scan# 3278
Delta R.T. 0.09 min
Lab File: DEP34F05.D
Acq: 06/24/2015 08:01

Tgt Ion:276 Resp: 258100

Ion	Ratio	Lower	Upper
276	100		
138	26.9	16.2	30.0
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☑ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 6/25/15

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M86

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725006

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DEP35F06

Extraction: (Type) SONC

% Moisture: 5.2 Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

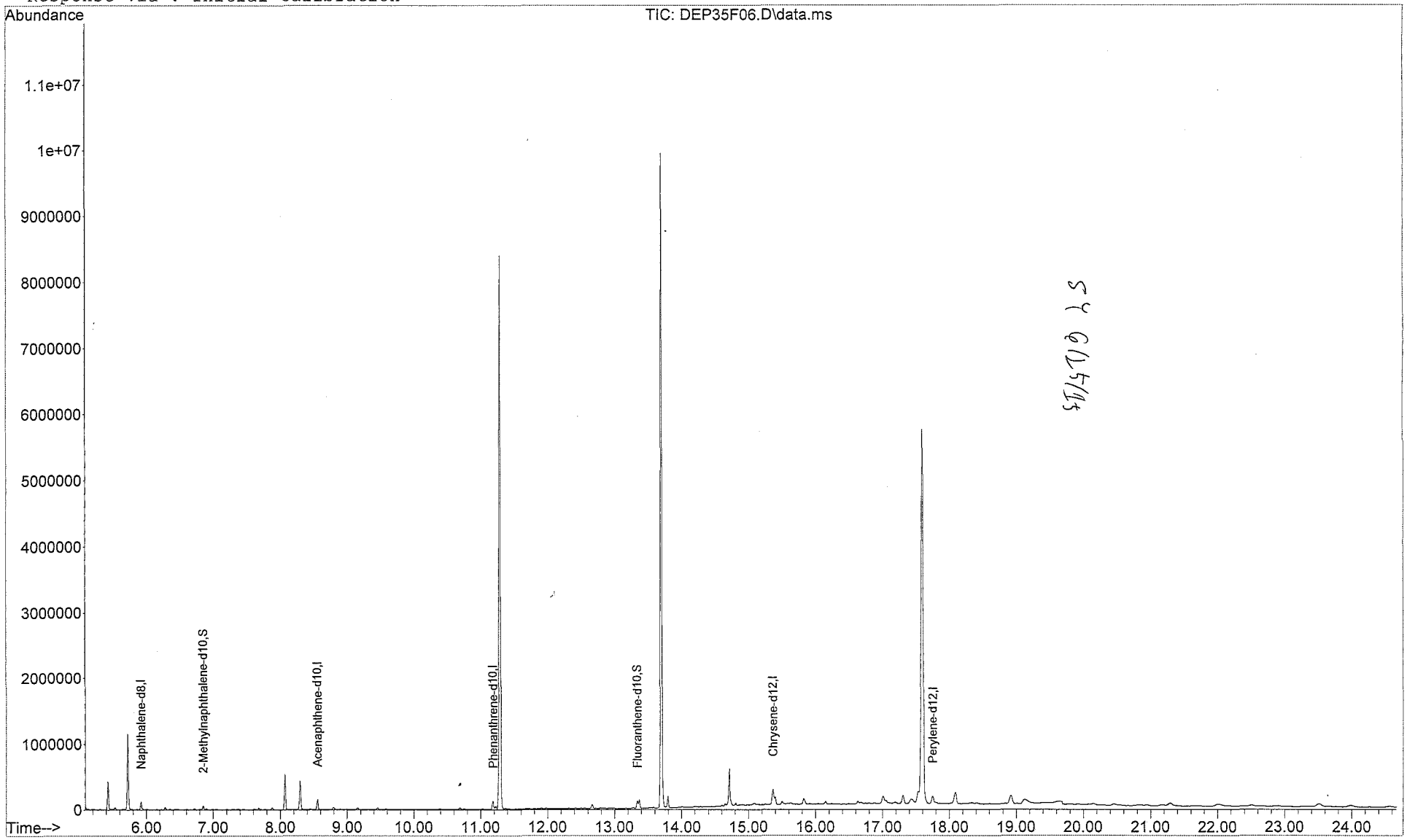
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	0.75	J
91-57-6	2-Methylnaphthalene	1.0	J
208-96-8	Acenaphthylene	1.3	J
83-32-9	Acenaphthene	3.5	U
86-73-7	Fluorene	3.5	U
87-86-5	Pentachlorophenol	7.0	U
85-01-8	Phenanthrene	2.6	J
120-12-7	Anthracene	3.0	J
206-44-0	Fluoranthene	6.2	
129-00-0	Pyrene	7.3	
56-55-3	Benzo(a)anthracene	5.3	
218-01-9	Chrysene	6.7	
205-99-2	Benzo(b)fluoranthene	9.3	
207-08-9	Benzo(k)fluoranthene	2.3	J
50-32-8	Benzo(a)pyrene	4.4	
193-39-5	Indeno(1,2,3-cd)pyrene	4.2	
53-70-3	Dibenzo(a,h)anthracene	1.3	J
191-24-2	Benzo(g,h,i)perylene	5.7	

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP35F06.D Vial: 32
Acq On : 06/24/2015 08:31 Operator: DJC
Sample : 1515725006 F9M86 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 25 10:33:42 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

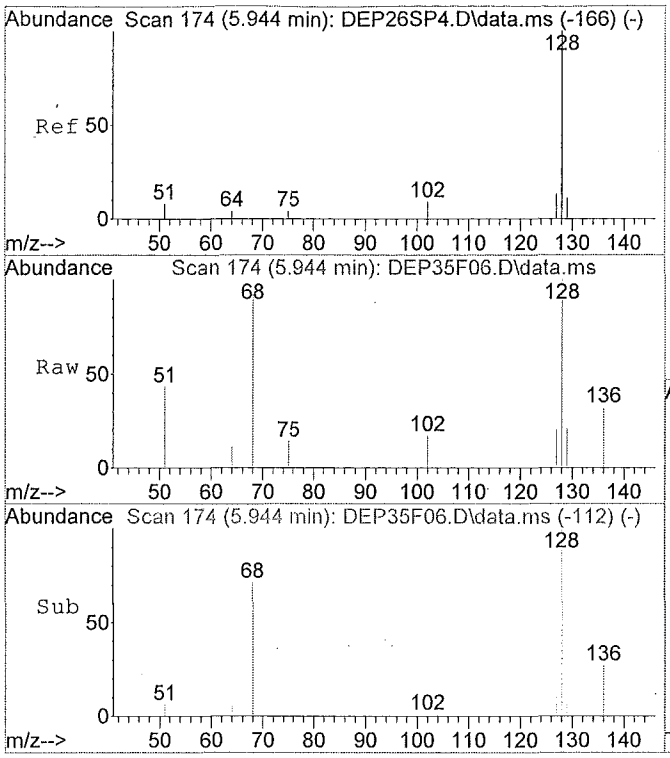
Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP35F06.D Vial: 32
Acq On : 06/24/2015 08:31 Operator: DJC
Sample : 1515725006 F9M86 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 10:33:42 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.92	136	130537	0.40 ug/ml	
5) Acenaphthene-d10	8.56	164	98559	0.40 ug/ml	
9) Phenanthrene-d10	11.18	188	169709	0.40 ug/ml	
15) Chrysene-d12	15.36	240	202192	0.40 ug/ml	
19) Perylene-d12	17.75	264	192645	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.85	152	60967	0.289ug/mL	
13) Fluoranthene-d10	13.34	212	129755	0.280ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.94	128	7343	0.022ug/ml	95
4) 2-Methylnaphthalene	6.90	142	6355	0.029ug/ml	99
6) Acenaphthylene	8.32	152	16469	0.038ug/ml	83
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.22	178	35820	0.073ug/ml	96
12) Anthracene	11.32	178	41367	0.087ug/ml	95
14) Fluoranthene	13.37	202	98475	0.177ug/ml	95
16) Pyrene	13.72	202	133234	0.210ug/ml	1
17) Benzo(a)anthracene	15.35	228	81864	0.152ug/ml	75
18) Chrysene	15.40	228	109326	0.192ug/ml	95
20) Benzo(b)fluoranthene	17.00	252	159153	0.265ug/ml	97
21) Benzo(k)fluoranthene	17.05	252	41198	0.066ug/ml m	96
22) Benzo(a)pyrene	17.64	252	71913	0.125ug/ml	91
23) Indeno(1,2,3-c,d)pyrene	20.45	276	60907	0.121ug/ml	100
24) Dibenzo(a,h)anthracene	20.52	278	20411	0.037ug/ml	98
25) Benzo(g,h,i)perylene	21.30	276	91789	0.163ug/ml	75

SY 97
6/25/15

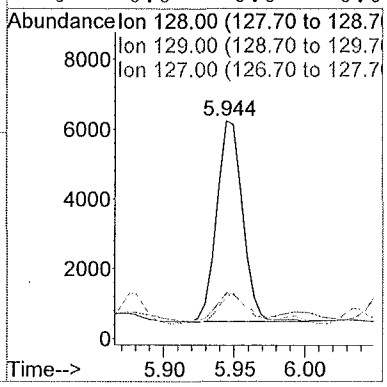
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

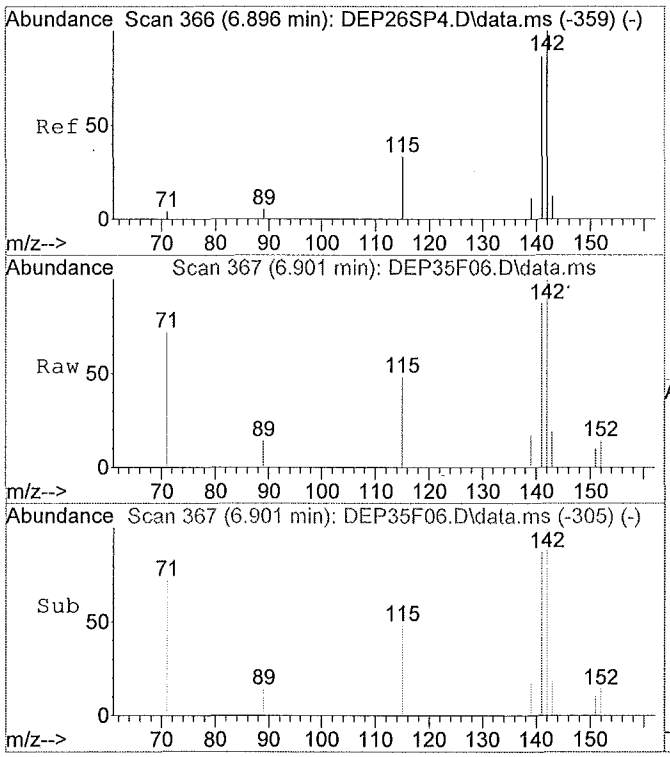


#2
Naphthalene
Concen: 0.02 ug/ml
RT: 5.94 min Scan# 174
Delta R.T. 0.00 min
Lab File: DEP35F06.D
Acq: 06/24/2015 08:31

Tgt Ion:128 Resp: 7343

Ion	Ratio	Lower	Upper
128	100		
129	14.8	0.0	0.0#
127	17.8	11.1	20.5
0	0.0	0.0	0.0

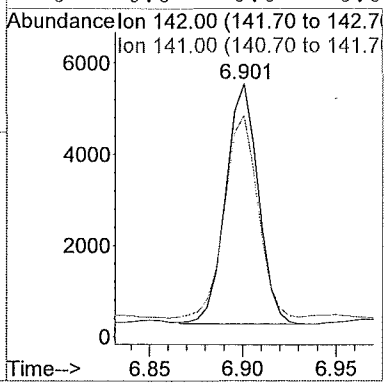


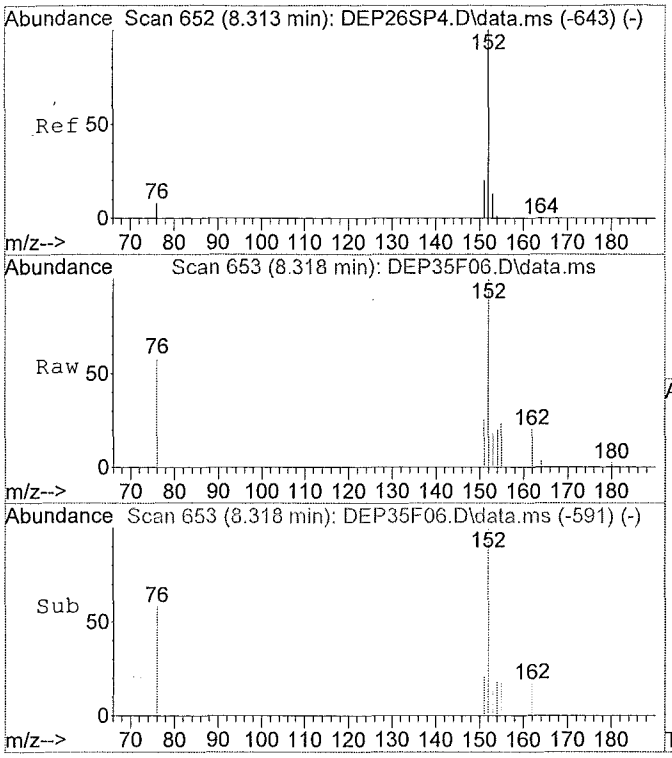


#4
2-Methylnaphthalene
Concen: 0.03 ug/ml
RT: 6.90 min Scan# 367
Delta R.T. 0.00 min
Lab File: DEP35F06.D
Acq: 06/24/2015 08:31

Tgt Ion:142 Resp: 6355

Ion	Ratio	Lower	Upper
142	100		
141	88.7	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

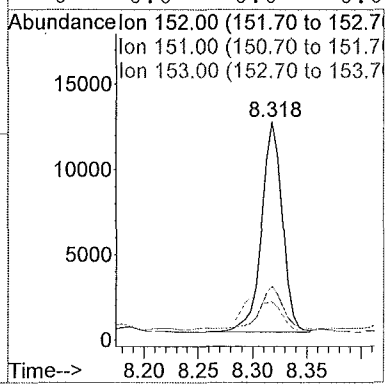


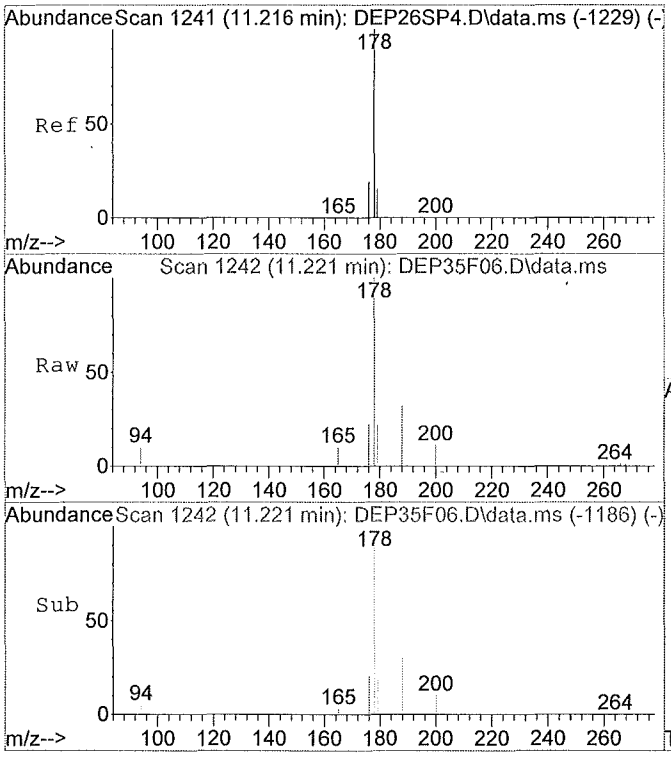


#6
Acenaphthylene
Concen: 0.04 ug/ml
RT: 8.32 min Scan# 653
Delta R.T. 0.01 min
Lab File: DEP35F06.D
Acq: 06/24/2015 08:31

Tgt Ion:152 Resp: 16469

Ion	Ratio	Lower	Upper
152	100		
151	21.3	15.5	28.7
153	29.7	8.8	16.4#
0	0.0	0.0	0.0

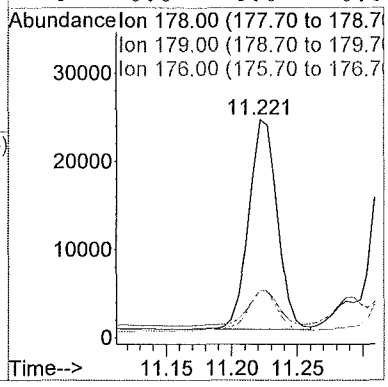


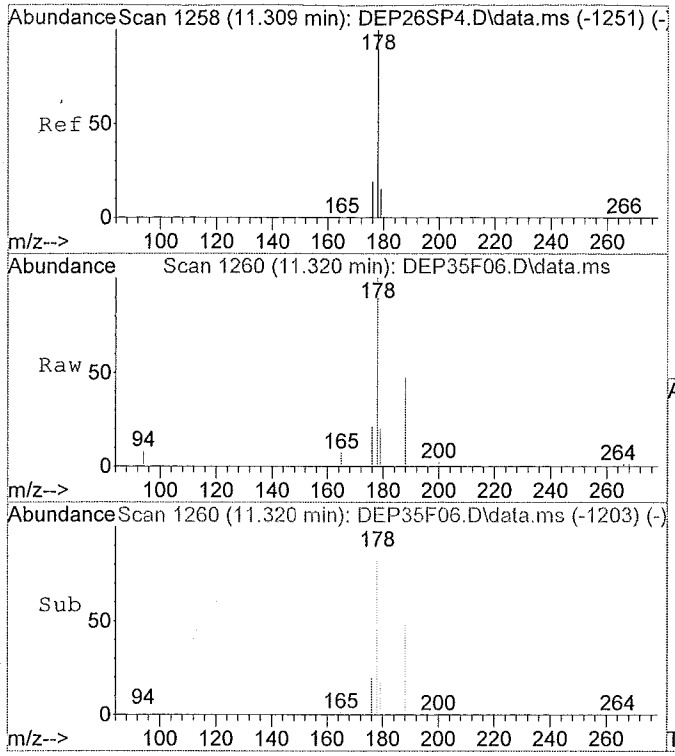


#11
Phenanthrene
Concen: 0.07 ug/ml
RT: 11.22 min Scan# 1242
Delta R.T. 0.01 min
Lab File: DEP35F06.D
Acq: 06/24/2015 08:31

Tgt Ion:178 Resp: 35820

Ion	Ratio	Lower	Upper
178	100		
179	18.1	11.1	20.5
176	21.0	14.1	26.1
0	0.0	0.0	0.0

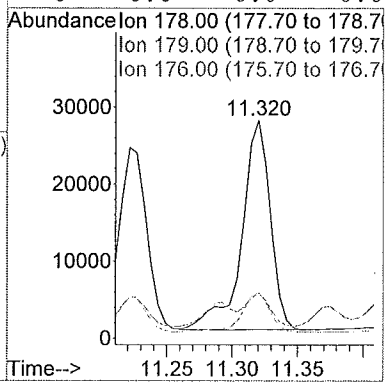


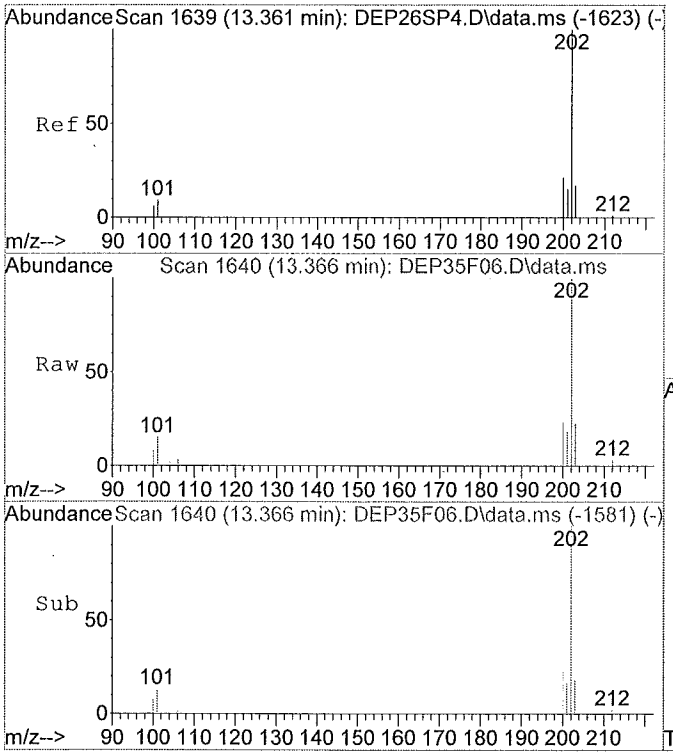


#12
Anthracene
Concen: 0.09 ug/ml
RT: 11.32 min Scan# 1260
Delta R.T. 0.01 min
Lab File: DEP35F06.D
Acq: 06/24/2015 08:31

Tgt Ion:178 Resp: 41367

Ion	Ratio	Lower	Upper
178	100		
179	13.1	11.6	21.6
176	18.6	13.9	25.7
0	0.0	0.0	0.0

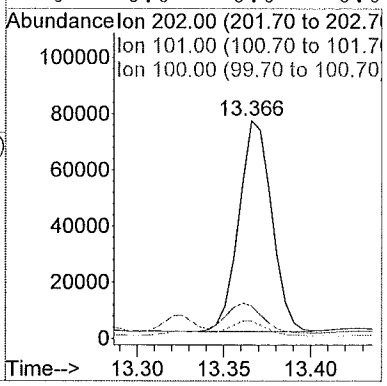


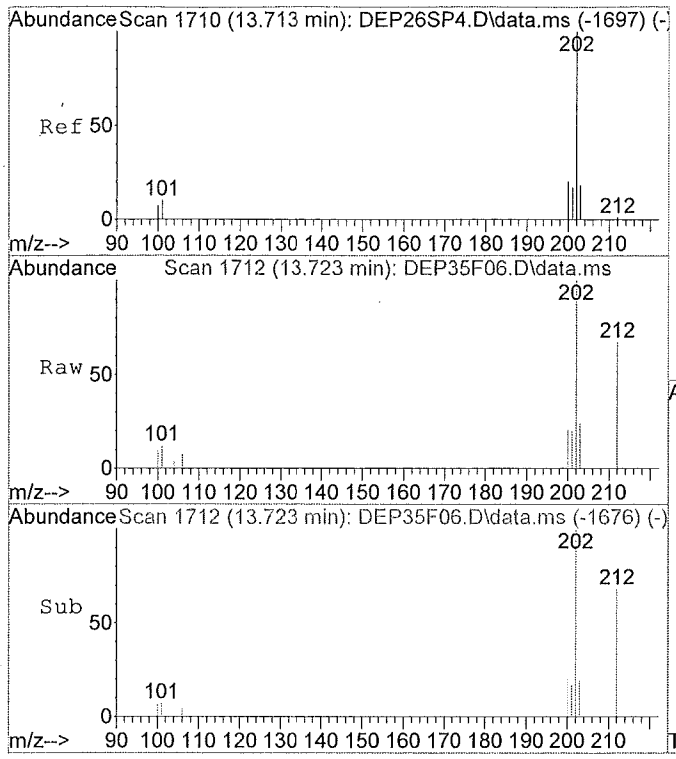


#14
Fluoranthene
Concen: 0.18 ug/ml
RT: 13.37 min Scan# 1640
Delta R.T. 0.00 min
Lab File: DEP35F06.D
Acq: 06/24/2015 08:31

Tgt Ion:202 Resp: 98475

Ion	Ratio	Lower	Upper
202	100		
101	15.4	9.4	17.6
100	7.8	0.0	0.0#
0	0.0	0.0	0.0

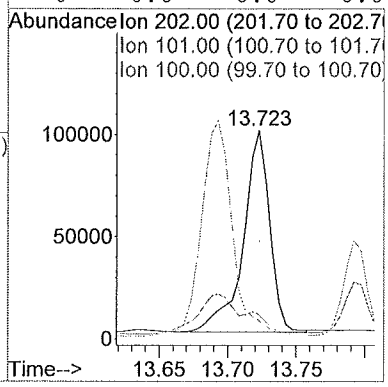


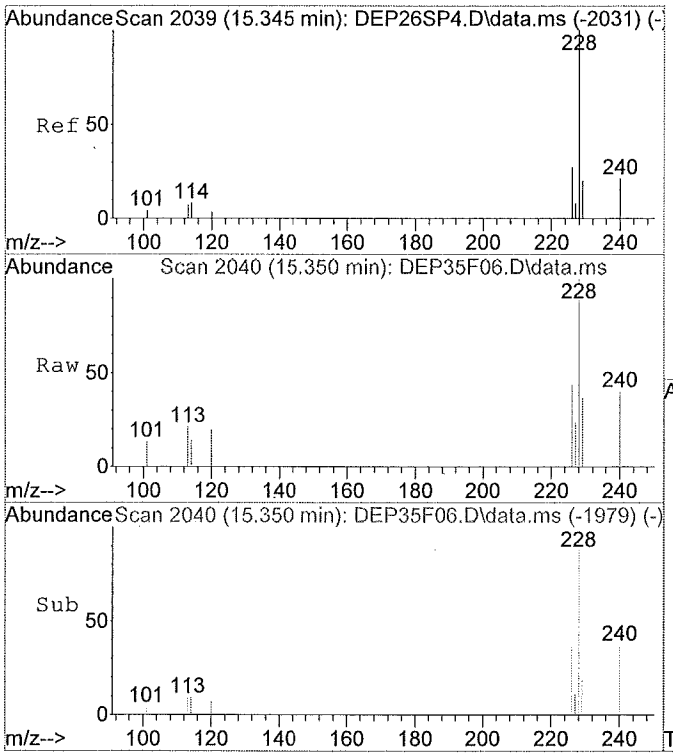


#16
Pyrene
Concen: 0.21 ug/ml
RT: 13.72 min Scan# 1712
Delta R.T. 0.01 min
Lab File: DEP35F06.D
Acq: 06/24/2015 08:31

Tgt Ion:202 Resp: 133234

Ion	Ratio	Lower	Upper
202	100		
101	35.3	10.6	19.6#
100	124.7	9.4	17.4#
0	0.0	0.0	0.0

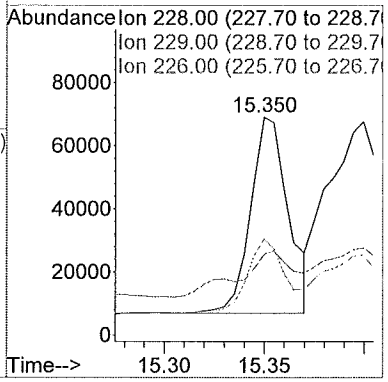


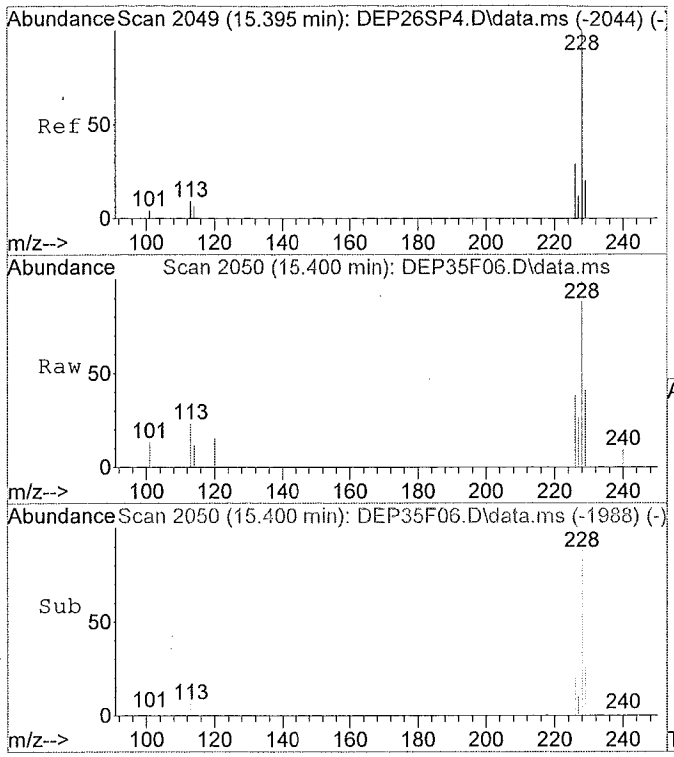


#17
Benzo(a)anthracene
Concen: 0.15 ug/ml
RT: 15.35 min Scan# 2040
Delta R.T. 0.00 min
Lab File: DEP35F06.D
Acq: 06/24/2015 08:31

Tgt Ion:228 Resp: 81864

Ion	Ratio	Lower	Upper
228	100		
229	33.8	14.5	26.9#
226	38.3	18.5	34.3#
0	0.0	0.0	0.0

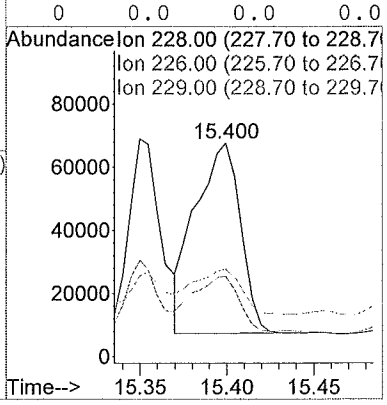


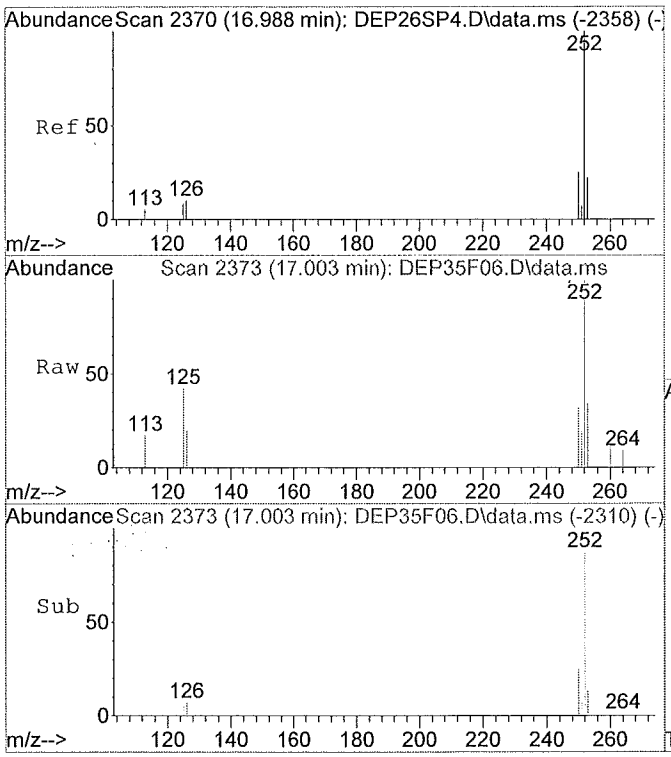


#18
Chrysene
Concen: 0.19 ug/ml
RT: 15.40 min Scan# 2050
Delta R.T. 0.01 min
Lab File: DEP35F06.D
Acq: 06/24/2015 08:31

Tgt Ion:228 Resp: 109326

Ion	Ratio	Lower	Upper
228	100		
226	29.0	19.7	36.7
229	25.2	14.5	26.9
0	0.0	0.0	0.0

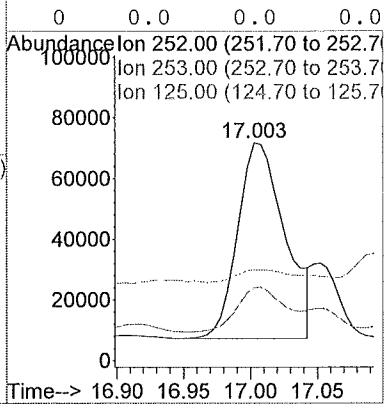


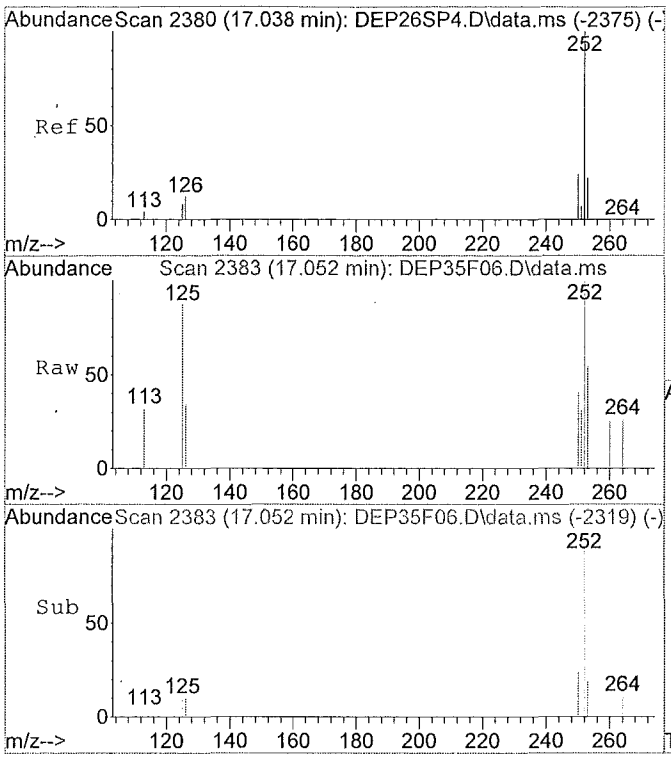


#20
Benzo(b)fluoranthene
Concen: 0.27 ug/ml
RT: 17.00 min Scan# 2373
Delta R.T. 0.02 min
Lab File: DEP35F06.D
Acq: 06/24/2015 08:31

Tgt Ion:252 Resp: 159153

Ion	Ratio	Lower	Upper
252	100		
253	23.1	15.3	28.3
125	9.8	0.0	0.0#
0	0.0	0.0	0.0

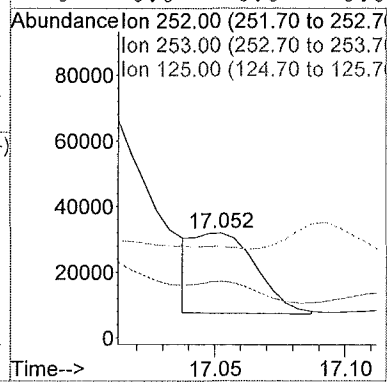


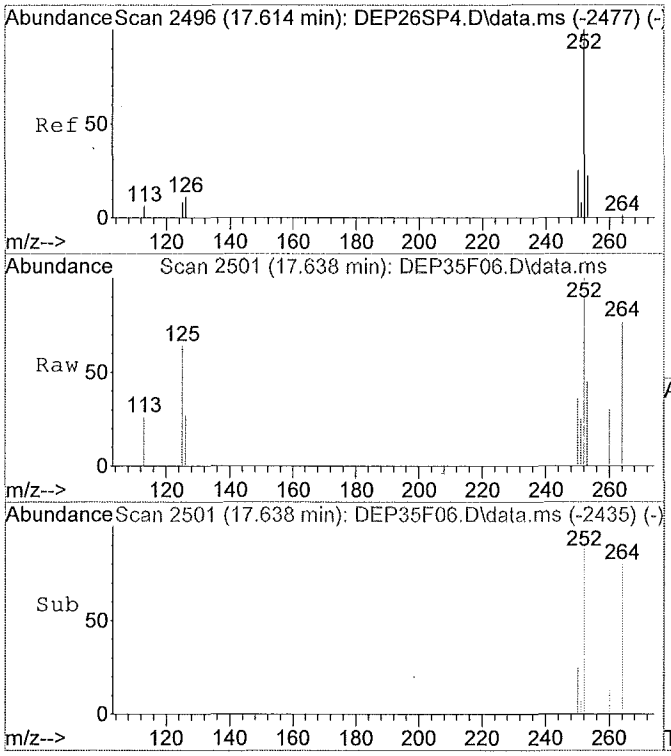


#21
Benzo(k)fluoranthene
Concen: 0.07 ug/ml m
RT: 17.05 min Scan# 2383
Delta R.T. 0.02 min
Lab File: DEP35F06.D
Acq: 06/24/2015 08:31

Tgt Ion:252 Resp: 41198

Ion	Ratio	Lower	Upper
252	100		
253	89.3	15.0	27.8#
125	36.2	0.0	0.0#
0	0.0	0.0	0.0

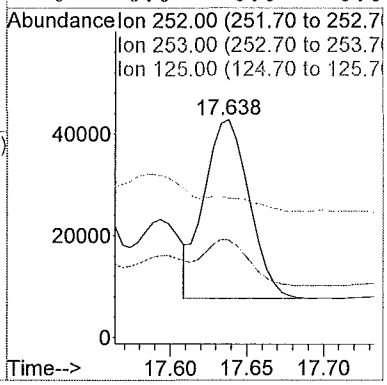


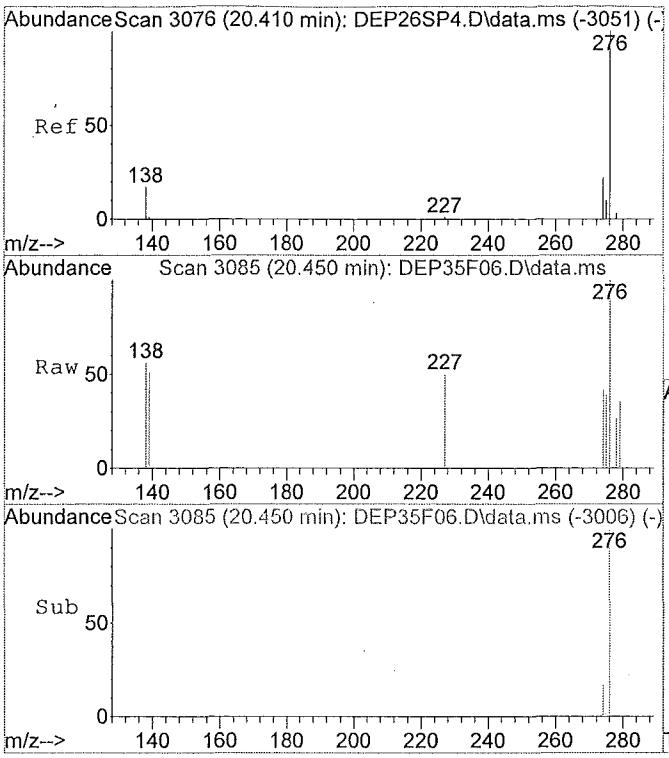


#22
Benzo(a)pyrene
Concen: 0.13 ug/ml
RT: 17.64 min Scan# 2501
Delta R.T. 0.03 min
Lab File: DEP35F06.D
Acq: 06/24/2015 08:31

Tgt Ion:252 Resp: 71913

Ion	Ratio	Lower	Upper
252	100		
253	25.8	15.0	27.8
125	0.0	0.0	0.0
0	0.0	0.0	0.0

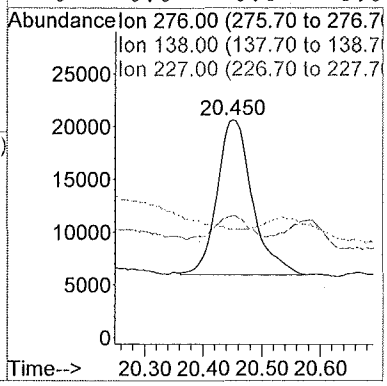


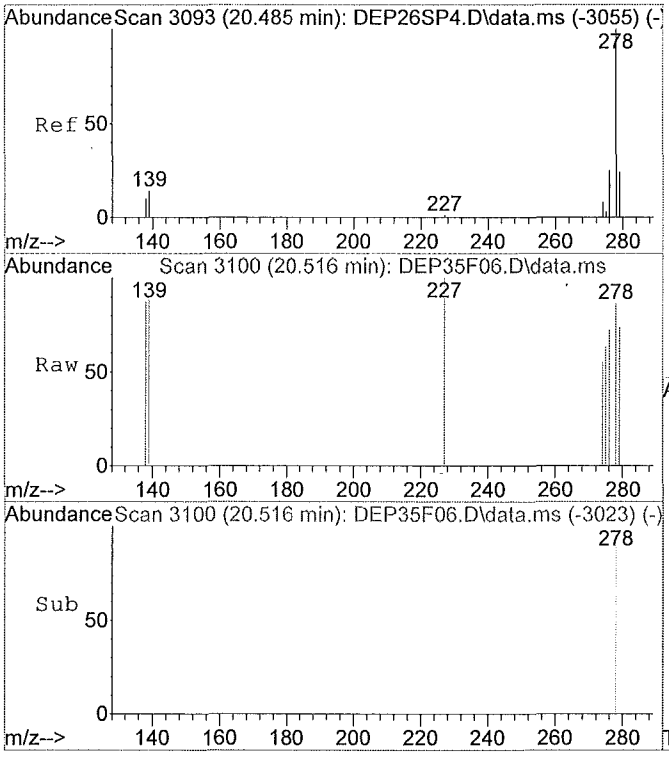


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.12 ug/ml
RT: 20.45 min Scan# 3085
Delta R.T. 0.05 min
Lab File: DEP35F06.D
Acq: 06/24/2015 08:31

Tgt Ion:276 Resp: 60907

Ion	Ratio	Lower	Upper
276	100		
138	10.9	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

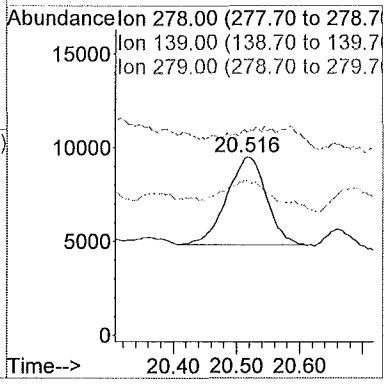


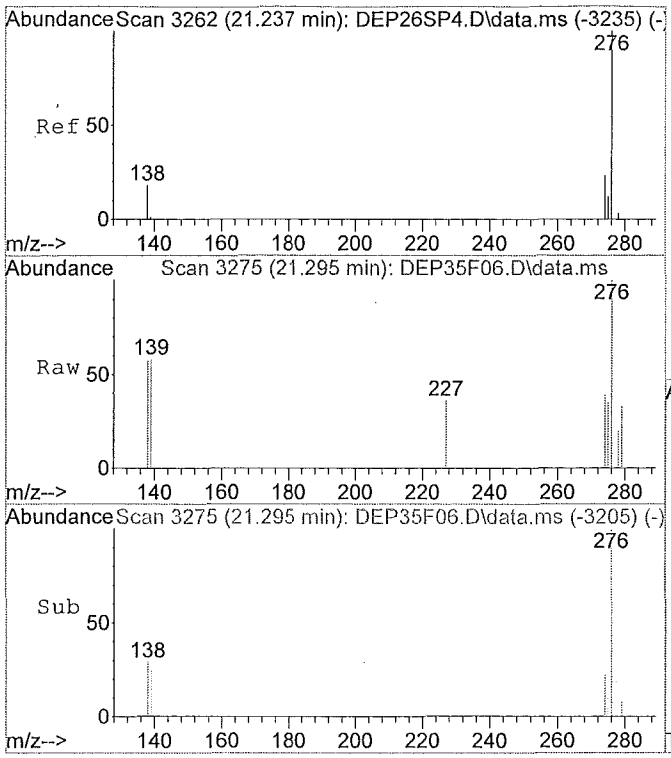


#24
Dibenzo(a,h)anthracene
Concen: 0.04 ug/ml
RT: 20.52 min Scan# 3100
Delta R.T. 0.04 min
Lab File: DEP35F06.D
Acq: 06/24/2015 08:31

Tgt Ion:278 Resp: 20411

Ion	Ratio	Lower	Upper
278	100		
139	0.8	0.0	0.0#
279	23.6	15.8	29.3
0	0.0	0.0	0.0

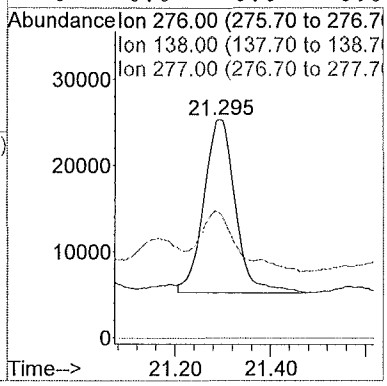




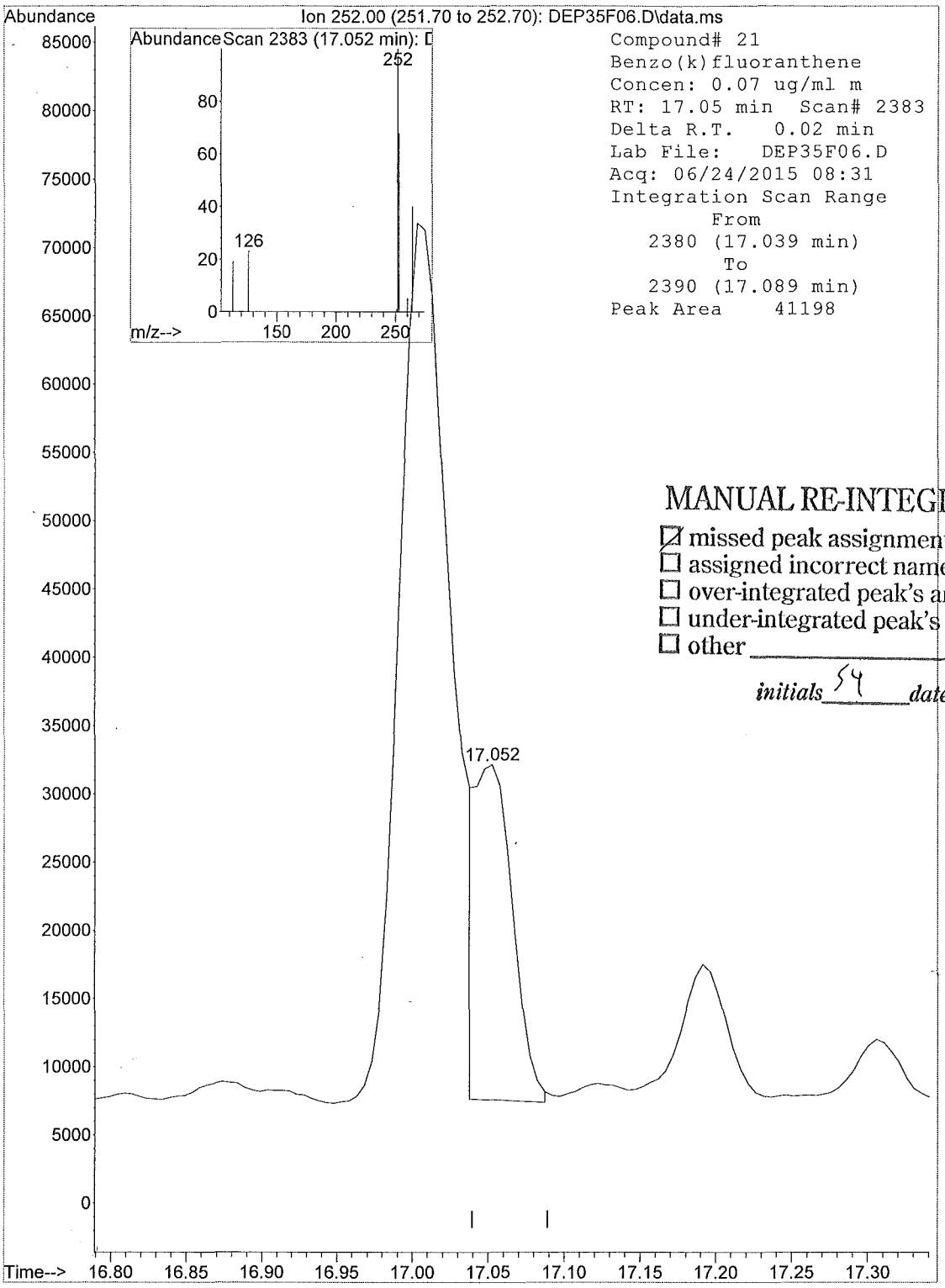
#25
Benzo(g,h,i)perylene
Concen: 0.16 ug/ml
RT: 21.30 min Scan# 3275
Delta R.T. 0.08 min
Lab File: DEP35F06.D
Acq: 06/24/2015 08:31

Tgt Ion:276 Resp: 91789

Ion	Ratio	Lower	Upper
276	100		
138	24.0	16.2	30.0
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☑ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 8/25/15

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M87

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725007

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DEP36F07

Extraction: (Type) SONC

% Moisture: 9.5 Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

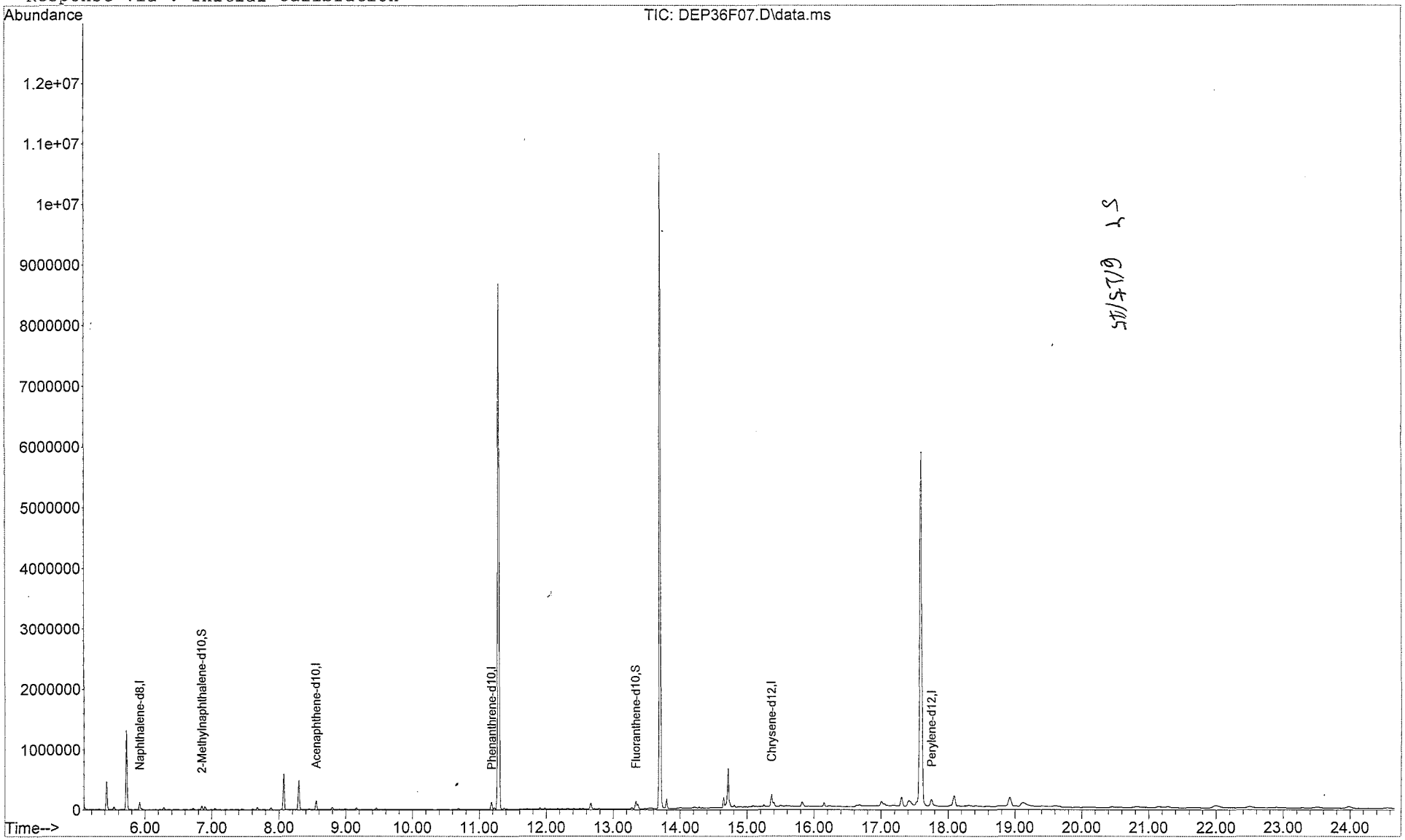
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	1.7	J
91-57-6	2-Methylnaphthalene	4.2	
208-96-8	Acenaphthylene	0.93	J
83-32-9	Acenaphthene	3.6	U
86-73-7	Fluorene	3.6	U
87-86-5	Pentachlorophenol	7.4	U
85-01-8	Phenanthrene	1.8	J
120-12-7	Anthracene	1.1	J
206-44-0	Fluoranthene	3.5	J
129-00-0	Pyrene	5.0	
56-55-3	Benzo(a)anthracene	2.8	J
218-01-9	Chrysene	4.3	
205-99-2	Benzo(b)fluoranthene	6.0	
207-08-9	Benzo(k)fluoranthene	1.7	J
50-32-8	Benzo(a)pyrene	2.6	J
193-39-5	Indeno(1,2,3-cd)pyrene	2.5	J
53-70-3	Dibenzo(a,h)anthracene	3.6	U
191-24-2	Benzo(g,h,i)perylene	1.7	J

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP36F07.D Vial: 33
Acq On : 06/24/2015 09:01 Operator: DJC
Sample : 1515725007 F9M87 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 25 10:34:12 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP36F07.D Vial: 33
Acq On : 06/24/2015 09:01 Operator: DJC
Sample : 1515725007 F9M87 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 10:34:12 2015 Results File: DSOM_SIMJ2.RES

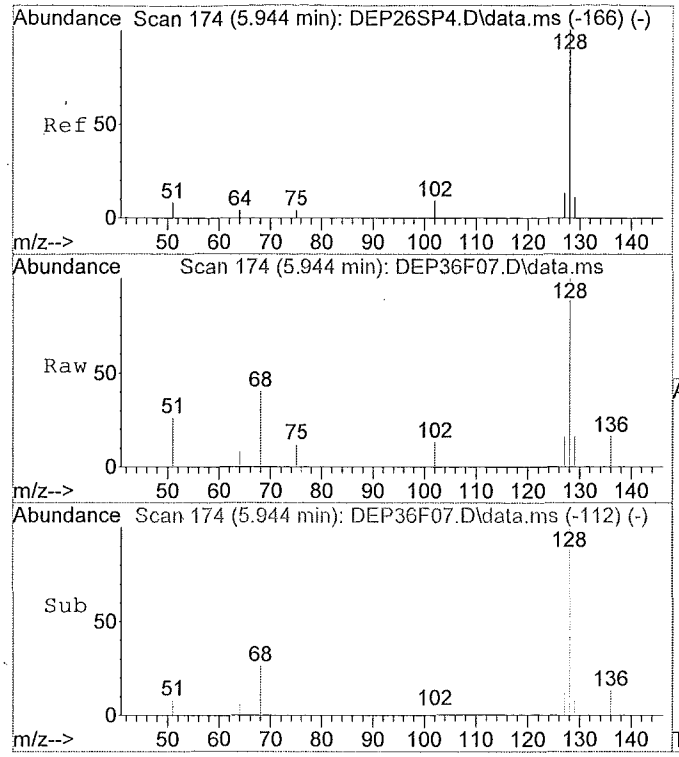
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.92	136	130936	0.40 ug/ml	
5) Acenaphthene-d10	8.56	164	97197	0.40 ug/ml	
9) Phenanthrene-d10	11.18	188	169376	0.40 ug/ml	
15) Chrysene-d12	15.36	240	193479	0.40 ug/ml	
19) Perylene-d12	17.75	264	189458	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.85	152	69179	0.327ug/mL	
13) Fluoranthene-d10	13.34	212	143135	0.309ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.94	128	15671	0.046ug/ml	100
4) 2-Methylnaphthalene	6.90	142	24981	0.114ug/ml	100
6) Acenaphthylene	8.32	152	10818	0.025ug/ml	74
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.22	178	24039	0.049ug/ml	97
12) Anthracene	11.32	178	14561	0.031ug/ml	78
14) Fluoranthene	13.37	202	53523	0.096ug/ml	48
16) Pyrene	13.72	202	81840	0.135ug/ml	1
17) Benzo(a)anthracene	15.35	228	38819	0.075ug/ml	86
18) Chrysene	15.40	228	63803	0.117ug/ml	94
20) Benzo(b)fluoranthene	17.01	252	96974	0.164ug/ml	98
21) Benzo(k)fluoranthene	17.05	252	27598	0.045ug/ml m	97
22) Benzo(a)pyrene	17.64	252	40628	0.072ug/ml	92
23) Indeno(1,2,3-c,d)pyrene	20.45	276	33366	0.068ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	21.29	276	25499	0.046ug/ml	58

SY 6/25/15

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

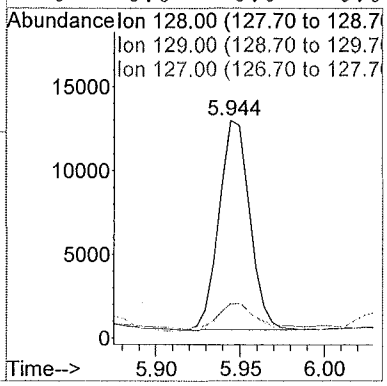
91152

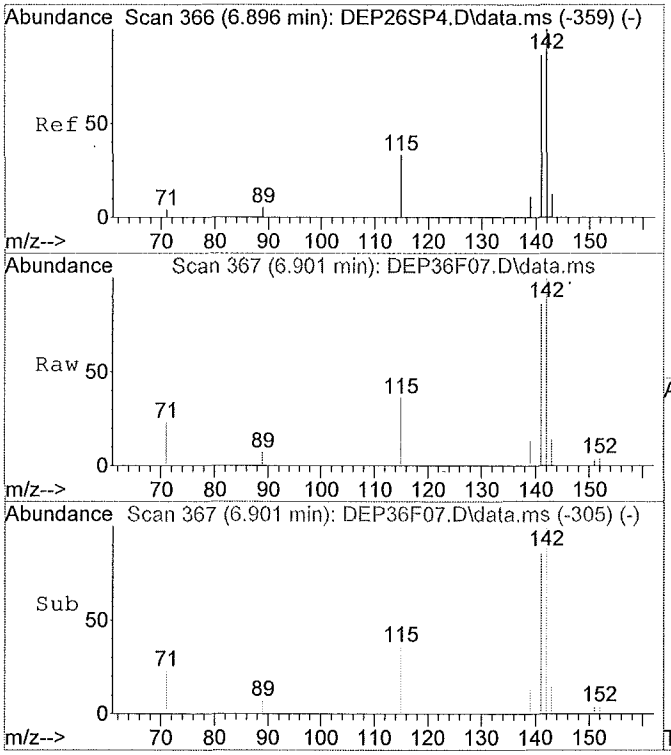


#2
Naphthalene
Concen: 0.05 ug/ml
RT: 5.94 min Scan# 174
Delta R.T. 0.00 min
Lab File: DEP36F07.D
Acq: 06/24/2015 09:01

Tgt Ion:128 Resp: 15671

Ion	Ratio	Lower	Upper
128	100		
129	14.9	0.0	0.0#
127	15.6	11.1	20.5
0	0.0	0.0	0.0

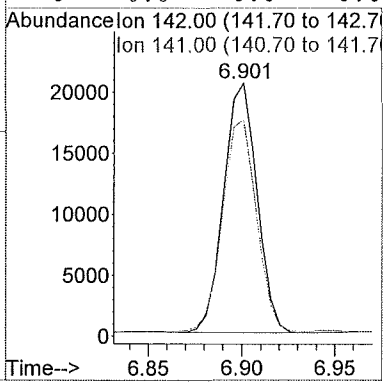


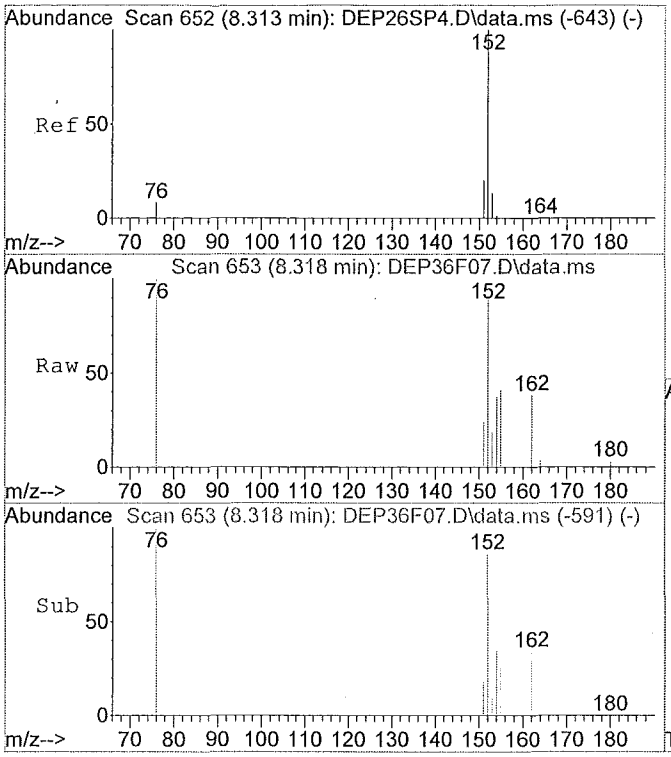


#4
2-Methylnaphthalene
Concen: 0.11 ug/ml
RT: 6.90 min Scan# 367
Delta R.T. 0.00 min
Lab File: DEP36F07.D
Acq: 06/24/2015 09:01

Tgt Ion:142 Resp: 24981

Ion	Ratio	Lower	Upper
142	100		
141	87.0	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

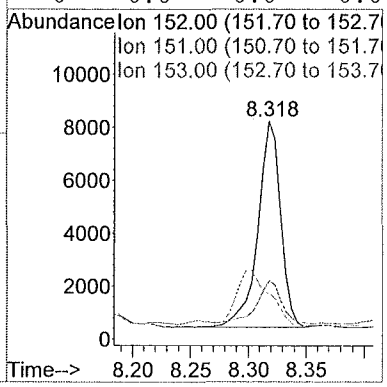


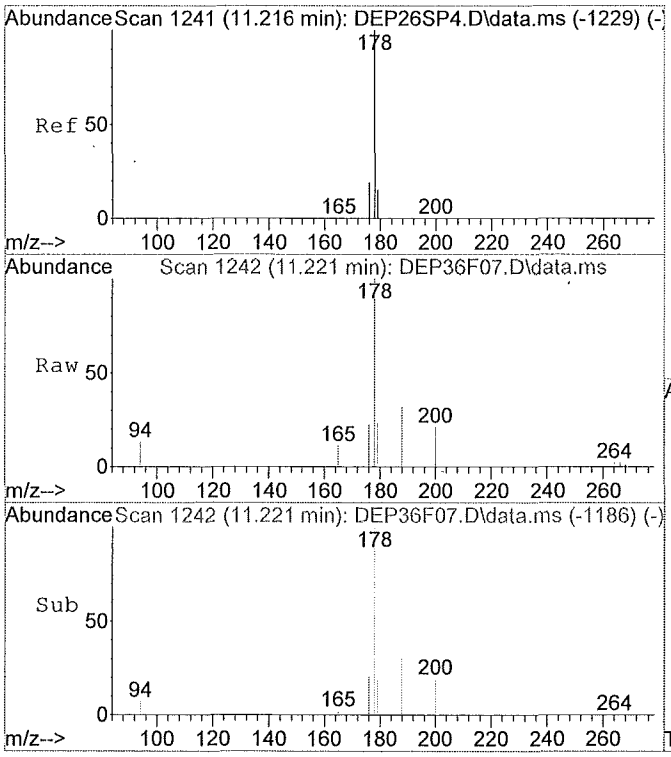


#6
Acenaphthylene
Concen: 0.03 ug/ml
RT: 8.32 min Scan# 653
Delta R.T. 0.01 min
Lab File: DEP36F07.D
Acq: 06/24/2015 09:01

Tgt Ion:152 Resp: 10818

Ion	Ratio	Lower	Upper
152	100		
151	22.5	15.5	28.7
153	40.4	8.8	16.4#
0	0.0	0.0	0.0

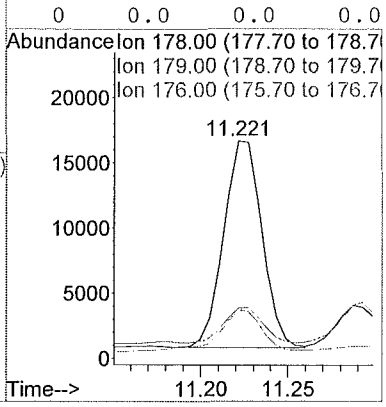


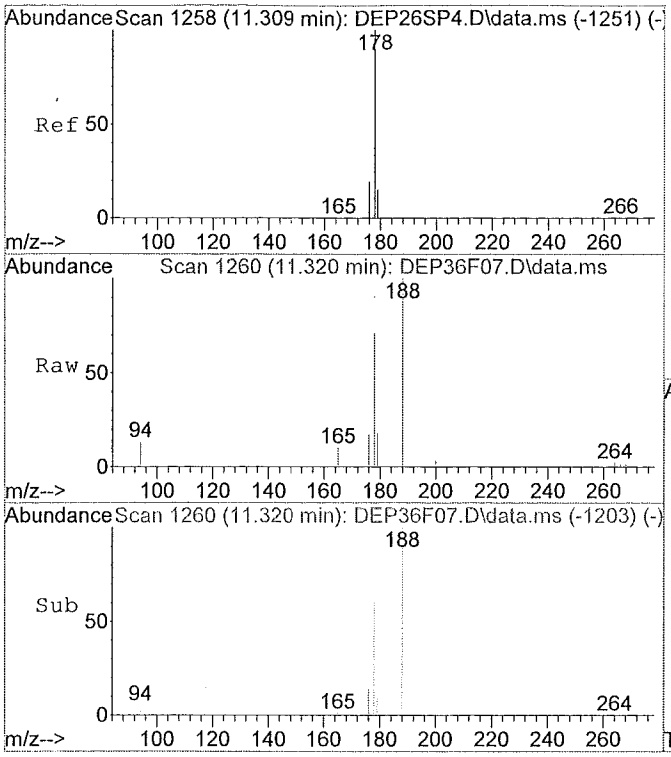


#11
Phenanthrene
Concen: 0.05 ug/ml
RT: 11.22 min Scan# 1242
Delta R.T. 0.01 min
Lab File: DEP36F07.D
Acq: 06/24/2015 09:01

Tgt Ion:178 Resp: 24039

Ion	Ratio	Lower	Upper
178	100		
179	17.2	11.1	20.5
176	21.7	14.1	26.1
0	0.0	0.0	0.0

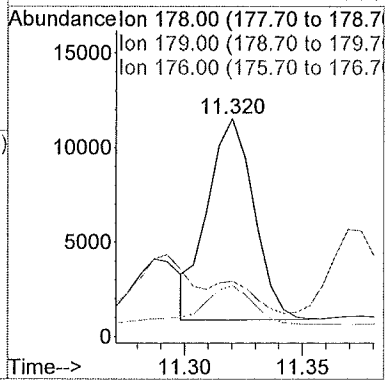


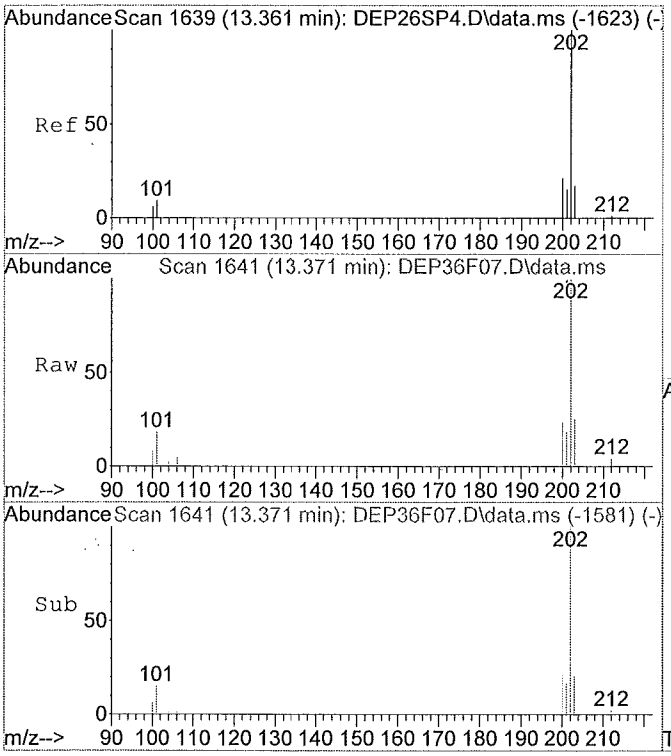


#12
Anthracene
Concen: 0.03 ug/ml
RT: 11.32 min Scan# 1260
Delta R.T. 0.01 min
Lab File: DEP36F07.D
Acq: 06/24/2015 09:01

Tgt Ion:178 Resp: 14561

Ion	Ratio	Lower	Upper
178	100		
179	0.0	11.6	21.6#
176	23.2	13.9	25.7
0	0.0	0.0	0.0

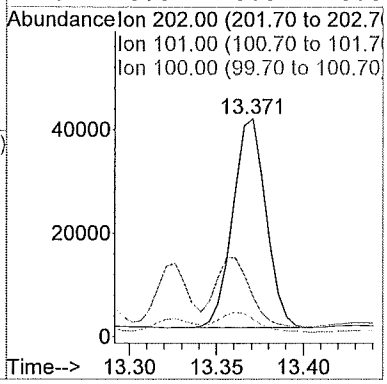


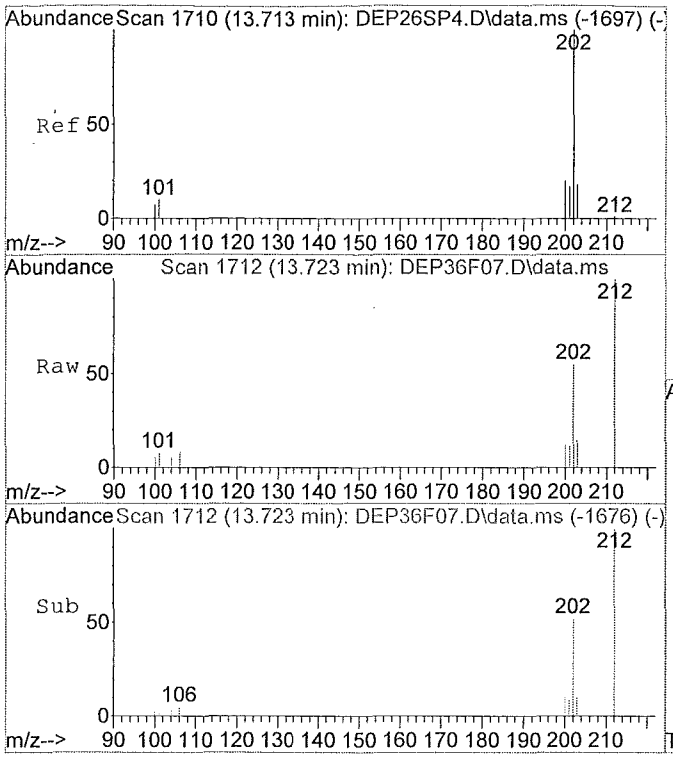


#14
Fluoranthene
Concen: 0.10 ug/ml
RT: 13.37 min Scan# 1641
Delta R.T. 0.01 min
Lab File: DEP36F07.D
Acq: 06/24/2015 09:01

Tgt Ion:202 Resp: 53523

Ion	Ratio	Lower	Upper
202	100		
101	34.3	9.4	17.6#
100	11.4	0.0	0.0#
0	0.0	0.0	0.0

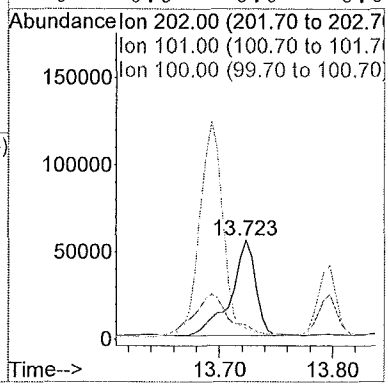


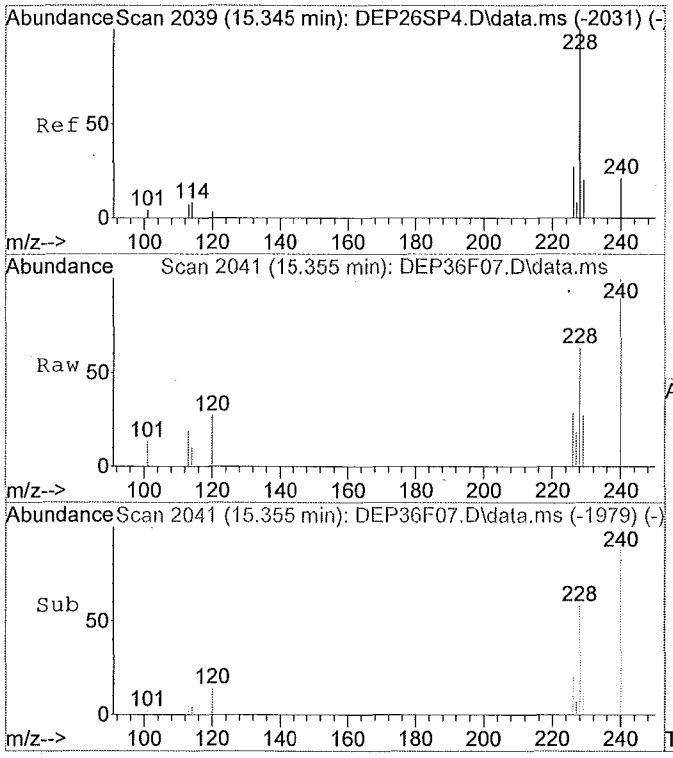


#16
Pyrene
Concen: 0.13 ug/ml
RT: 13.72 min Scan# 1712
Delta R.T. 0.01 min
Lab File: DEP36F07.D
Acq: 06/24/2015 09:01

Tgt Ion:202 Resp: 81840

Ion	Ratio	Lower	Upper
202	100		
101	60.9	10.6	19.6#
100	223.9	9.4	17.4#
0	0.0	0.0	0.0

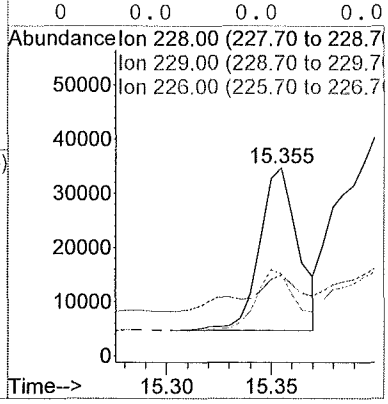


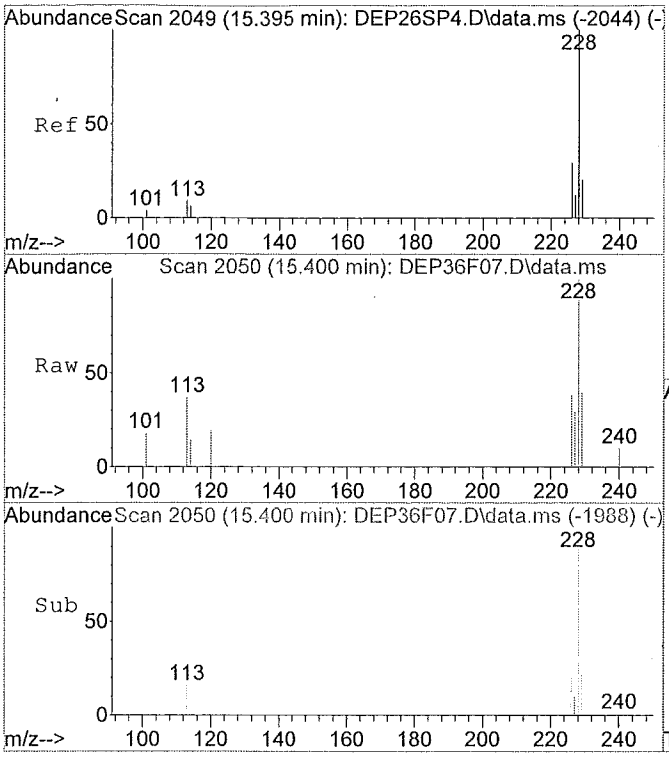


#17
Benzo(a)anthracene
Concen: 0.08 ug/ml
RT: 15.35 min Scan# 2041
Delta R.T. 0.01 min
Lab File: DEP36F07.D
Acq: 06/24/2015 09:01

Tgt Ion:228 Resp: 38819

Ion	Ratio	Lower	Upper
228	100		
229	20.7	14.5	26.9
226	38.8	18.5	34.3#
0	0.0	0.0	0.0

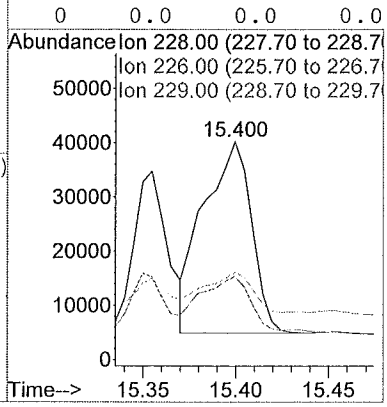


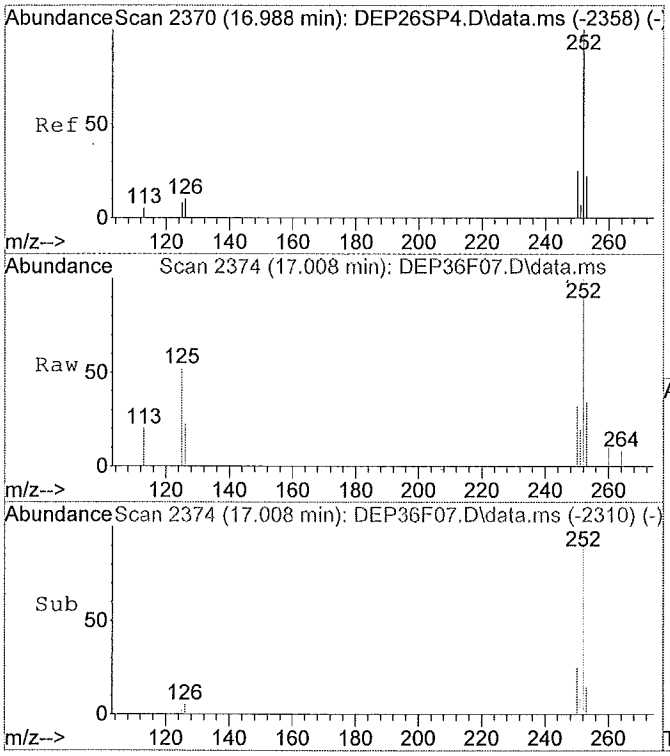


#18
Chrysene
Concen: 0.12 ug/ml
RT: 15.40 min Scan# 2050
Delta R.T. 0.01 min
Lab File: DEP36F07.D
Acq: 06/24/2015 09:01

Tgt Ion:228 Resp: 63803

Ion	Ratio	Lower	Upper
228	100		
226	33.3	19.7	36.7
229	20.5	14.5	26.9
0	0.0	0.0	0.0

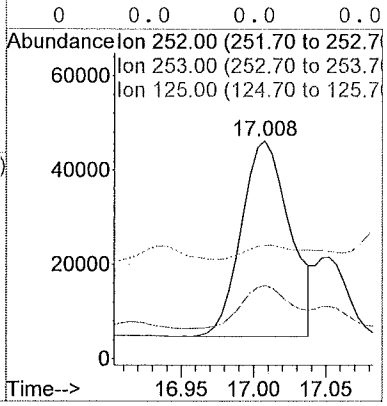


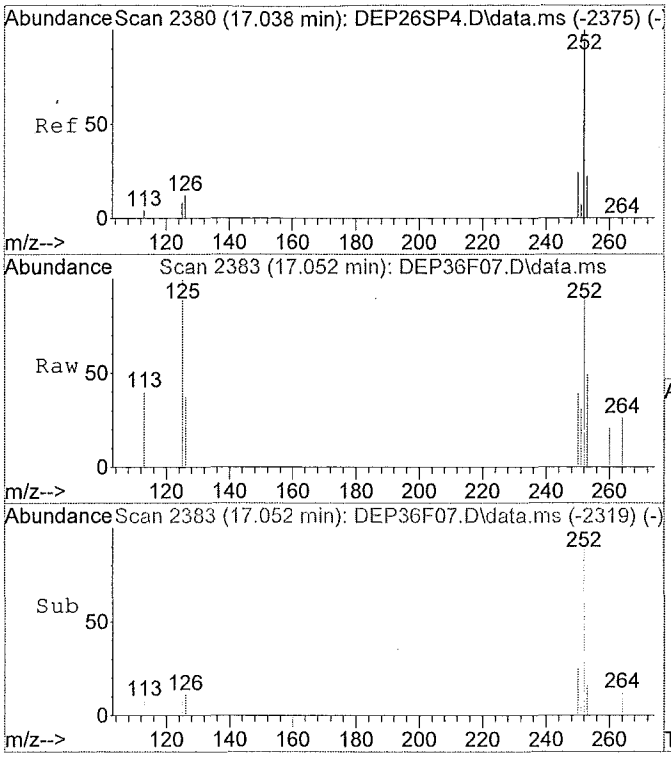


#20
Benzo(b)fluoranthene
Concen: 0.16 ug/ml
RT: 17.01 min Scan# 2374
Delta R.T. 0.02 min
Lab File: DEP36F07.D
Acq: 06/24/2015 09:01

Tgt Ion:252 Resp: 96974

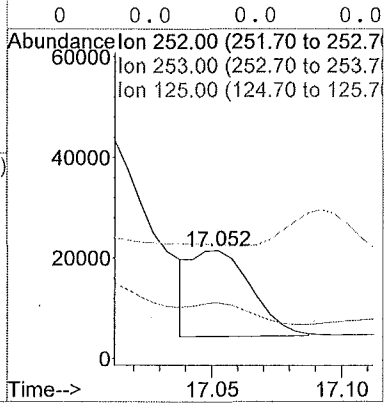
Ion	Ratio	Lower	Upper
252	100		
253	22.8	15.3	28.3
125	12.4	0.0	0.0#
0	0.0	0.0	0.0

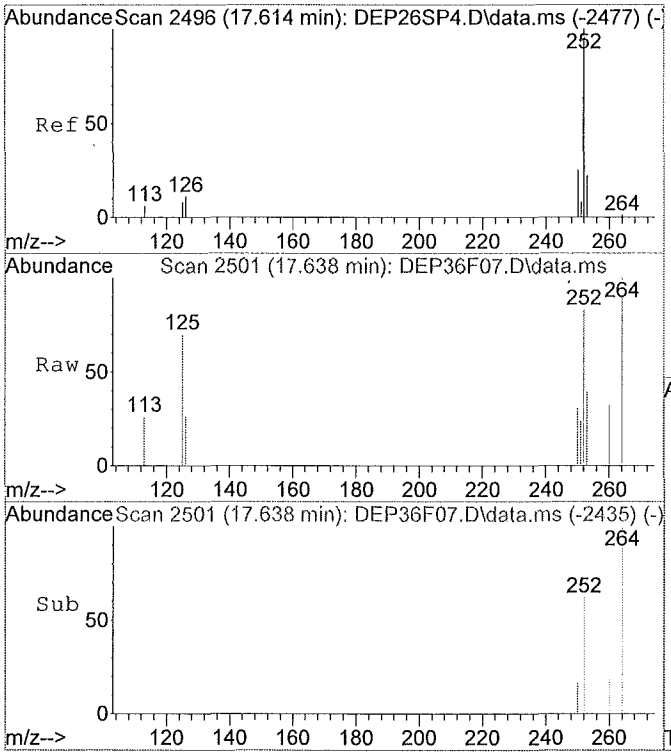




#21
Benzo(k)fluoranthene
Concen: 0.05 ug/ml m
RT: 17.05 min Scan# 2383
Delta R.T. 0.02 min
Lab File: DEP36F07.D
Acq: 06/24/2015 09:01

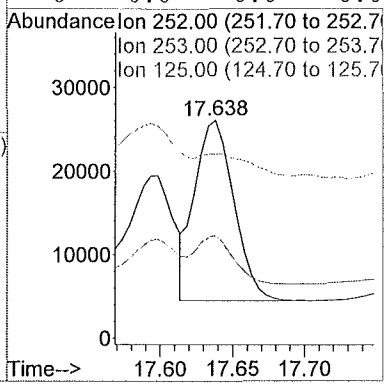
Tgt Ion:252	Resp:	27598	
Ion	Ratio	Lower	Upper
252	100		
253	80.2	15.0	27.8#
125	40.5	0.0	0.0#
0	0.0	0.0	0.0

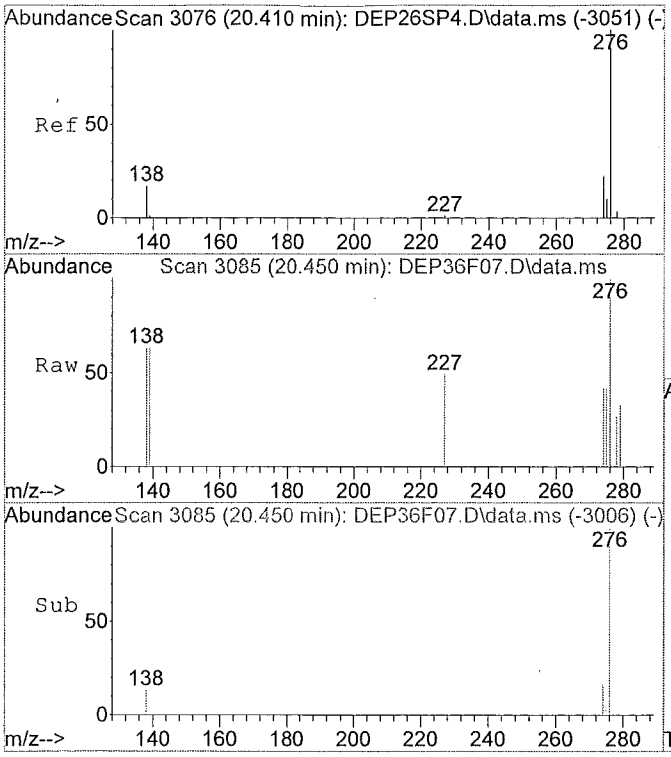




#22
Benzo(a)pyrene
Concen: 0.07 ug/ml
RT: 17.64 min Scan# 2501
Delta R.T. 0.03 min
Lab File: DEP36F07.D
Acq: 06/24/2015 09:01

Tgt Ion:252	Resp:	40628	
Ion	Ratio	Lower	Upper
252	100		
253	25.3	15.0	27.8
125	0.0	0.0	0.0
0	0.0	0.0	0.0

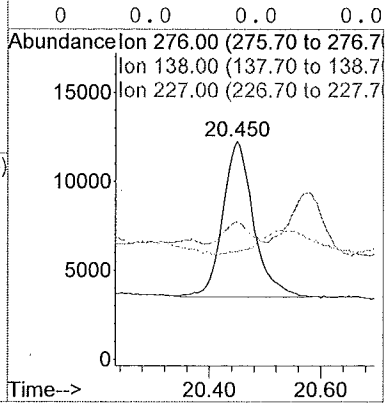


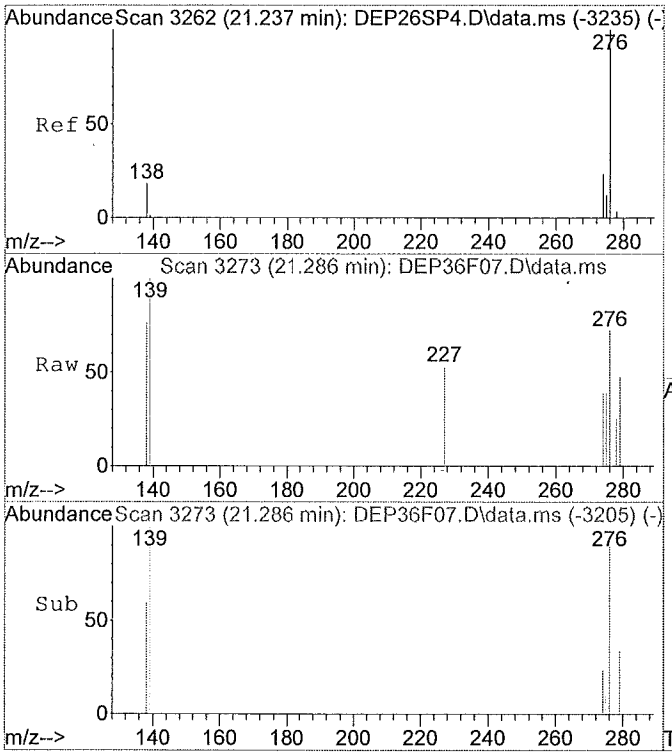


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.07 ug/ml
RT: 20.45 min Scan# 3085
Delta R.T. 0.05 min
Lab File: DEP36F07.D
Acq: 06/24/2015 09:01

Tgt Ion:276 Resp: 33366

Ion	Ratio	Lower	Upper
276	100		
138	11.6	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

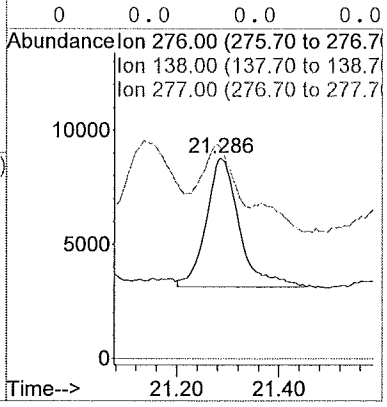




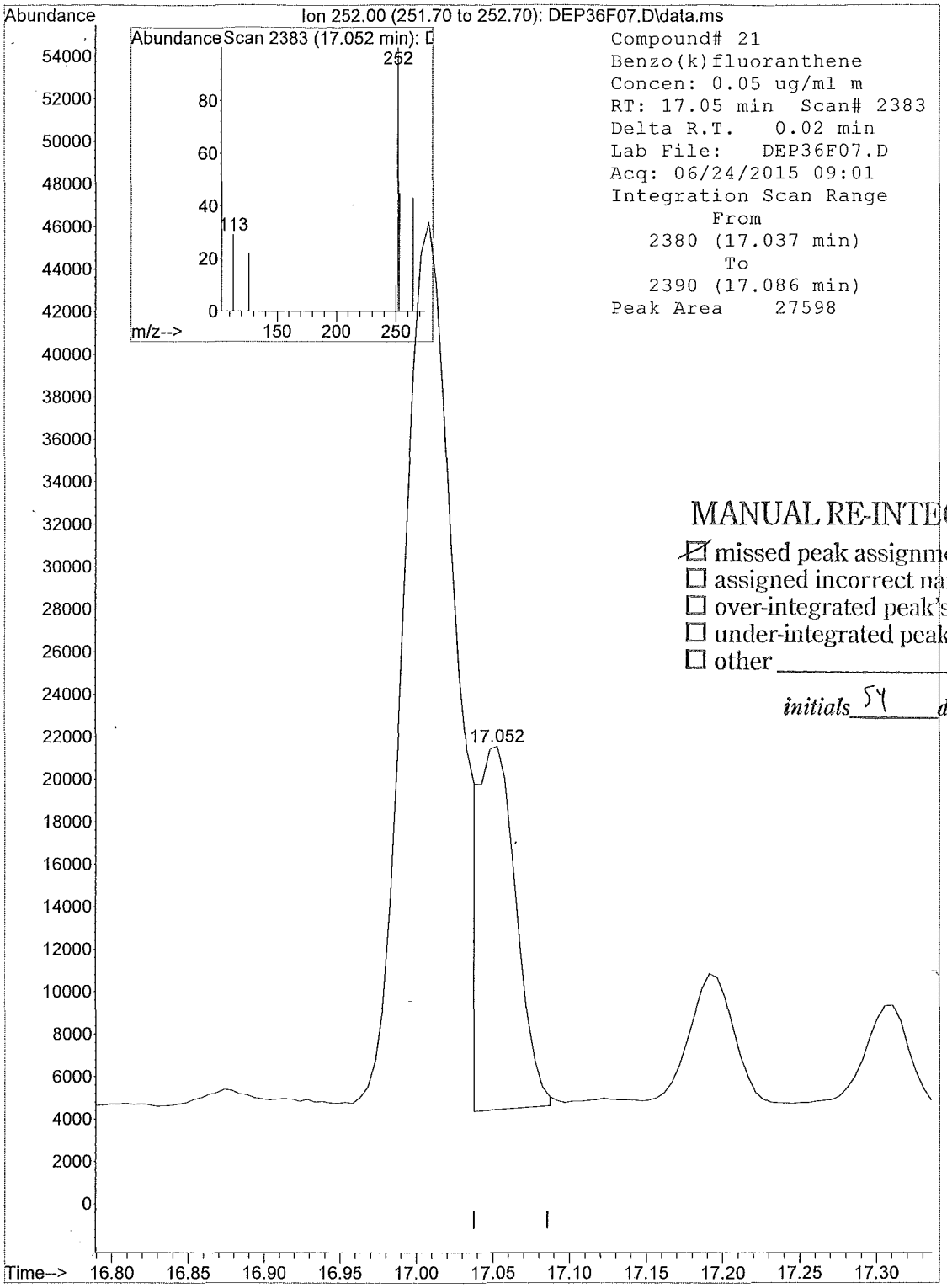
#25
Benzo(g,h,i)perylene
Concen: 0.05 ug/ml
RT: 21.29 min Scan# 3273
Delta R.T. 0.07 min
Lab File: DEP36F07.D
Acq: 06/24/2015 09:01

Tgt Ion:276 Resp: 25499

Ion	Ratio	Lower	Upper
276	100		
138	40.9	16.2	30.0#
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☑ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 9/25/15

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M88

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725008

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DEP37F08

Extraction: (Type) SONC

% Moisture: 10. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

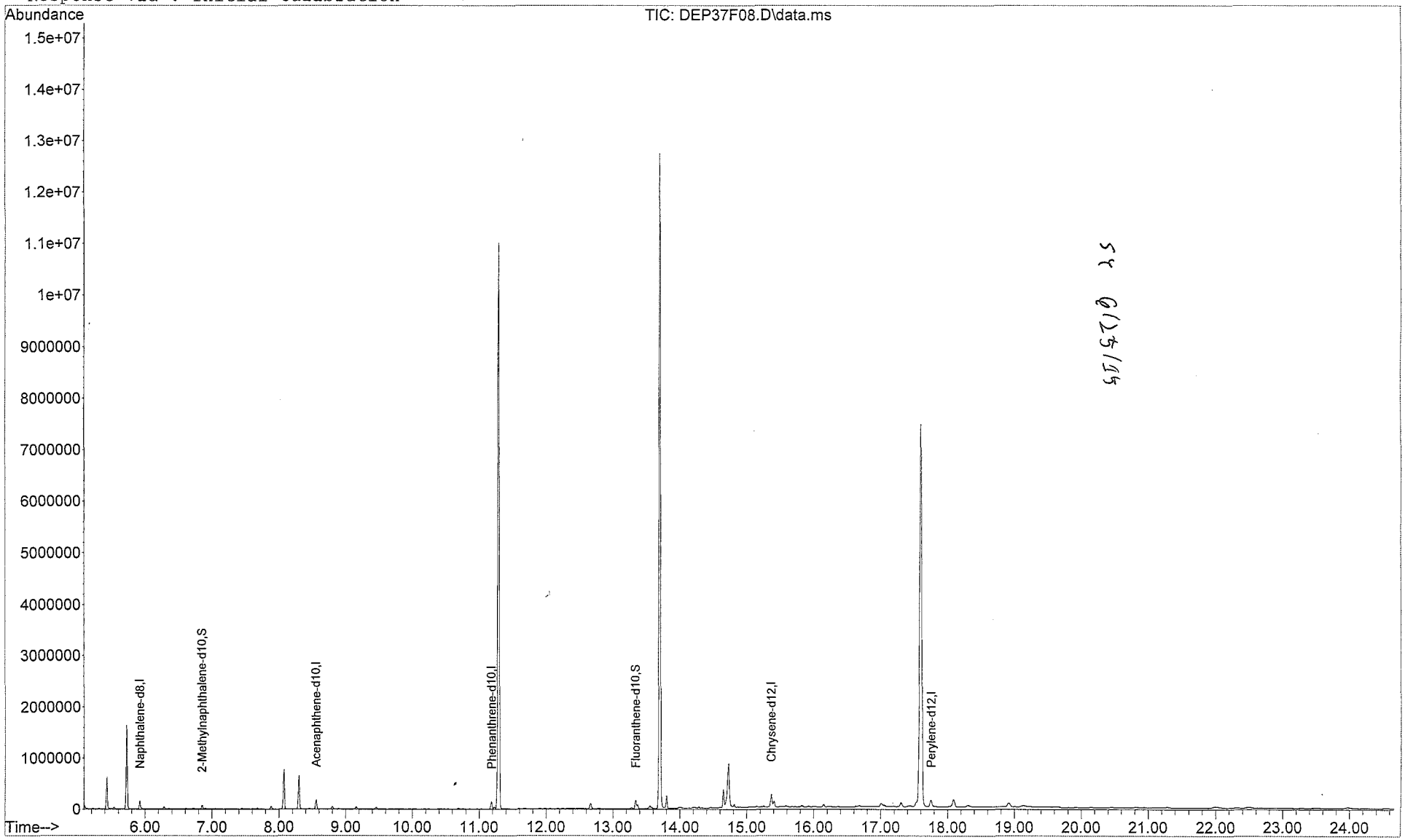
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	0.82	J
91-57-6	2-Methylnaphthalene	1.1	J
208-96-8	Acenaphthylene	3.7	U
83-32-9	Acenaphthene	3.7	U
86-73-7	Fluorene	3.7	U
87-86-5	Pentachlorophenol	7.4	U
85-01-8	Phenanthrene	1.9	J
120-12-7	Anthracene	1.1	J
206-44-0	Fluoranthene	3.2	J
129-00-0	Pyrene	4.5	
56-55-3	Benzo(a)anthracene	2.3	J
218-01-9	Chrysene	3.6	J
205-99-2	Benzo(b)fluoranthene	4.4	
207-08-9	Benzo(k)fluoranthene	1.1	J
50-32-8	Benzo(a)pyrene	2.0	J
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	J
53-70-3	Dibenzo(a,h)anthracene	3.7	U
191-24-2	Benzo(g,h,i)perylene	1.5	J

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP37F08.D Vial: 34
Acq On : 06/24/2015 09:31 Operator: DJC
Sample : 1515725008 F9M88 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 25 10:34:44 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



6/25/15

Quantitation Report

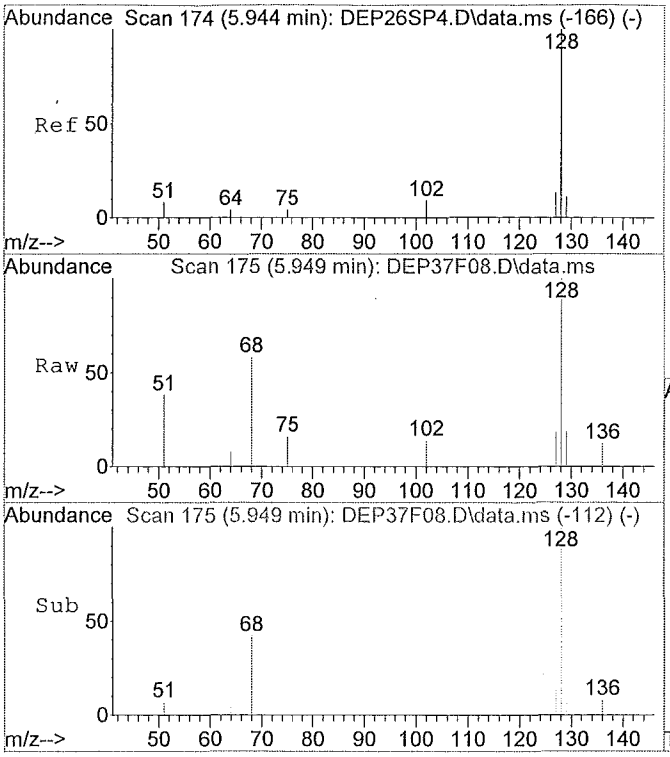
Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP37F08.D Vial: 34
Acq On : 06/24/2015 09:31 Operator: DJC
Sample : 1515725008 F9M88 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 10:34:44 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.92	136	166393	0.40 ug/ml	
5) Acenaphthene-d10	8.56	164	119638	0.40 ug/ml	
9) Phenanthrene-d10	11.18	188	199699	0.40 ug/ml	
15) Chrysene-d12	15.36	240	239143	0.40 ug/ml	
19) Perylene-d12	17.75	264	229116	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.85	152	86605	0.323ug/mL	
13) Fluoranthene-d10	13.34	212	187402	0.343ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.95	128	9635	0.022ug/ml	88
4) 2-Methylnaphthalene	6.90	142	8133	0.029ug/ml	96
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.22	178	29184	0.051ug/ml	93
12) Anthracene	11.32	178	17282	0.031ug/ml	76
14) Fluoranthene	13.37	202	56829	0.087ug/ml	83
16) Pyrene	13.72	202	92180	0.123ug/ml	1
17) Benzo(a)anthracene	15.35	228	39120	0.061ug/ml	86
18) Chrysene	15.40	228	65002	0.096ug/ml	83
20) Benzo(b)fluoranthene	17.01	252	84566	0.118ug/ml	95
21) Benzo(k)fluoranthene	17.05	252	21825	0.029ug/ml m SY 6/25/15	95
22) Benzo(a)pyrene	17.64	252	36685	0.054ug/ml	90
23) Indeno(1,2,3-c,d)pyrene	20.45	276	32770	0.055ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	21.28	276	27571	0.041ug/ml	71

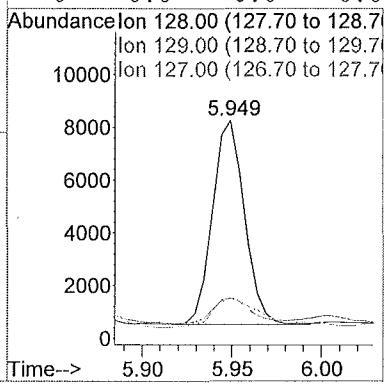
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

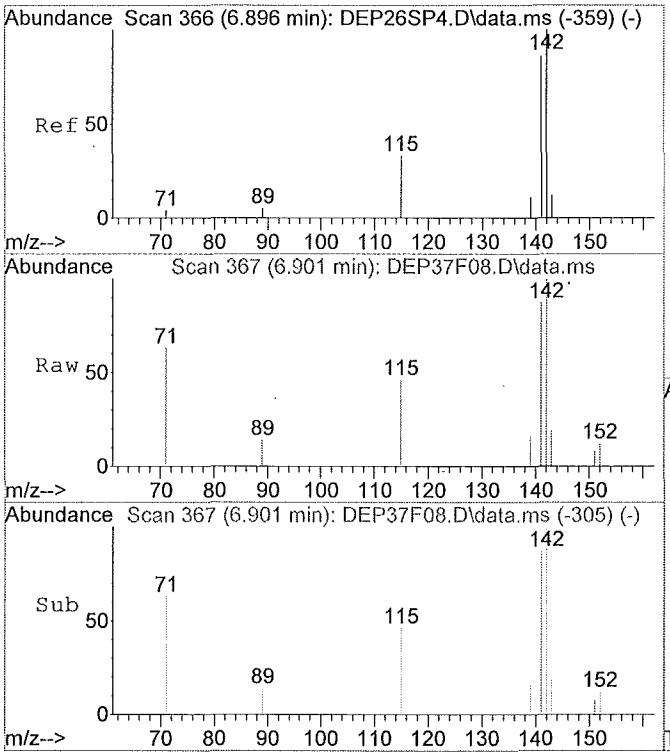
: 01169



#2
Naphthalene
Concen: 0.02 ug/ml
RT: 5.95 min Scan# 175
Delta R.T. 0.01 min
Lab File: DEP37F08.D
Acq: 06/24/2015 09:31

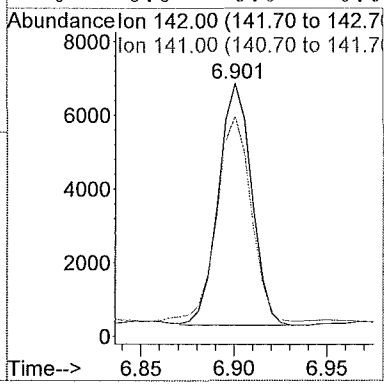
Tgt Ion:128	Resp:	9635	
Ion	Ratio	Lower	Upper
128	100		
129	15.3	0.0	0.0#
127	20.9	11.1	20.5#
0	0.0	0.0	0.0

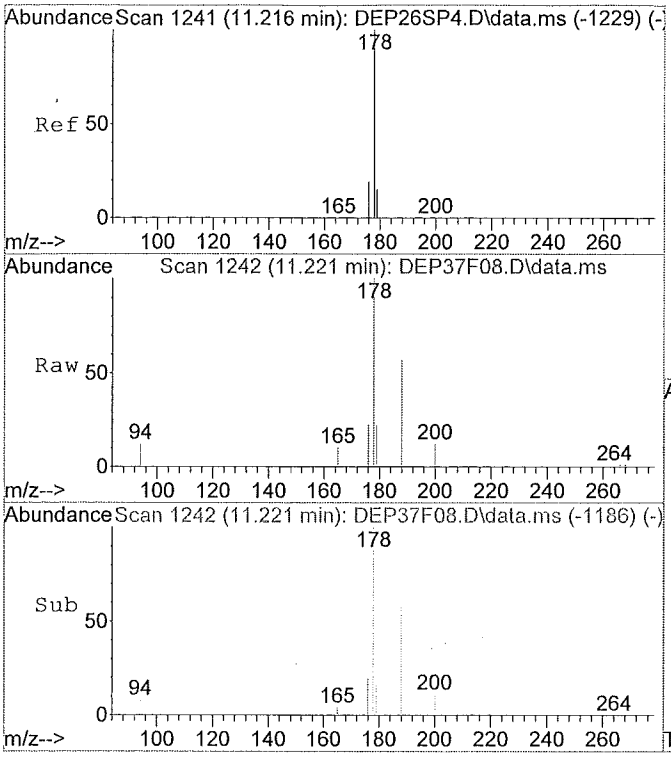




#4
2-Methylnaphthalene
Concen: 0.03 ug/ml
RT: 6.90 min Scan# 367
Delta R.T. 0.00 min
Lab File: DEP37F08.D
Acq: 06/24/2015 09:31

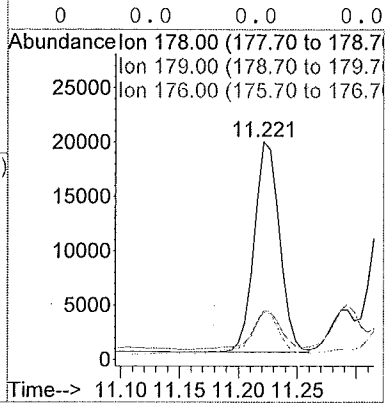
Tgt Ion:142	Resp:	8133	
Ion	Ratio	Lower	Upper
142	100		
141	90.7	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

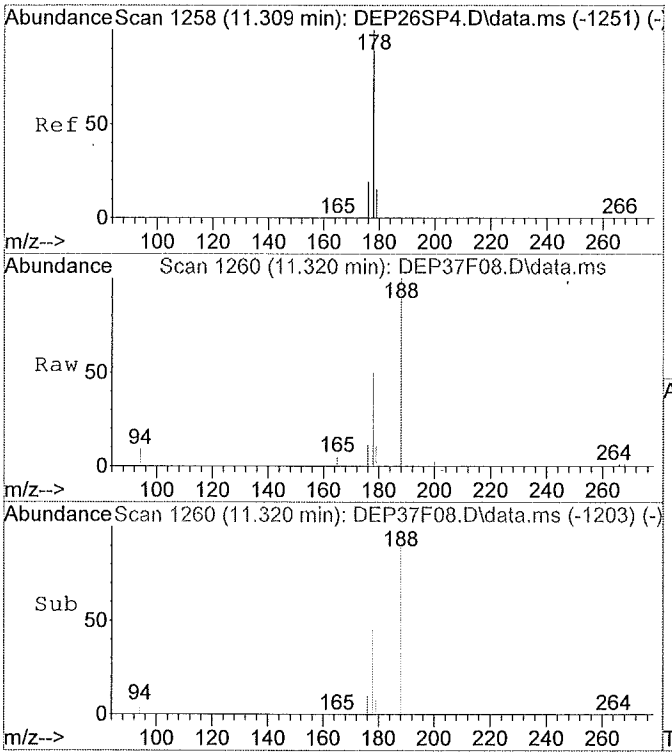




#11
Phenanthrene
Concen: 0.05 ug/ml
RT: 11.22 min Scan# 1242
Delta R.T. 0.01 min
Lab File: DEP37F08.D
Acq: 06/24/2015 09:31

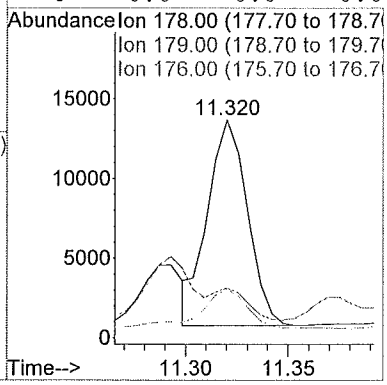
Tgt Ion:178	Resp:	29184	
Ion	Ratio	Lower	Upper
178	100		
179	20.1	11.1	20.5
176	22.4	14.1	26.1
0	0.0	0.0	0.0

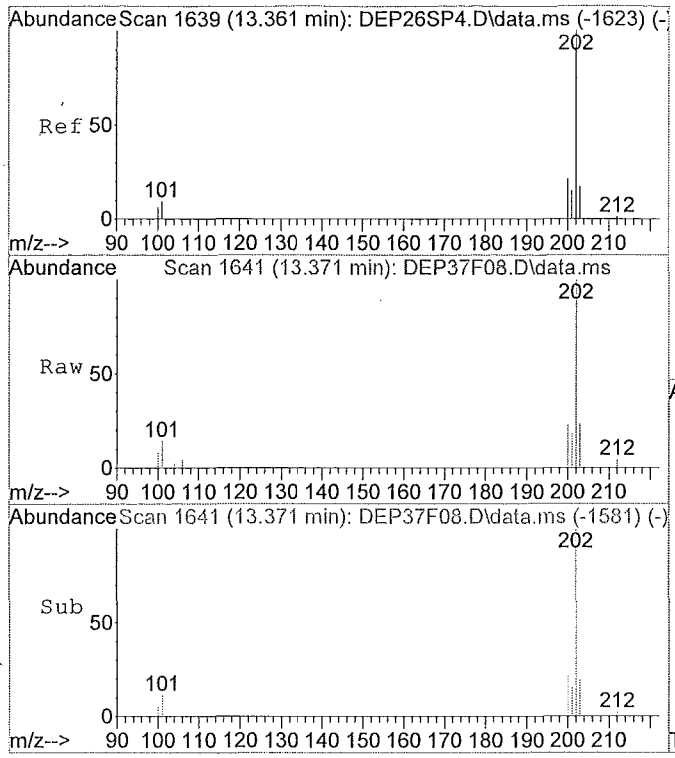




#12
Anthracene
Concen: 0.03 ug/ml
RT: 11.32 min Scan# 1260
Delta R.T. 0.01 min
Lab File: DEP37F08.D
Acq: 06/24/2015 09:31

Tgt Ion:178	Resp:	17282	
Ion	Ratio	Lower	Upper
178	100		
179	0.0	11.6	21.6#
176	25.5	13.9	25.7
0	0.0	0.0	0.0

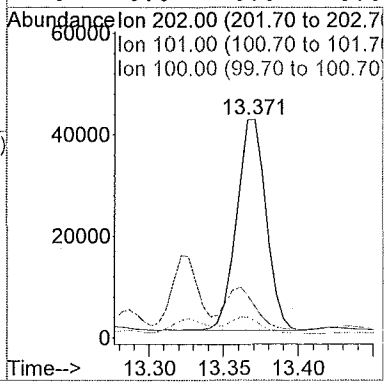


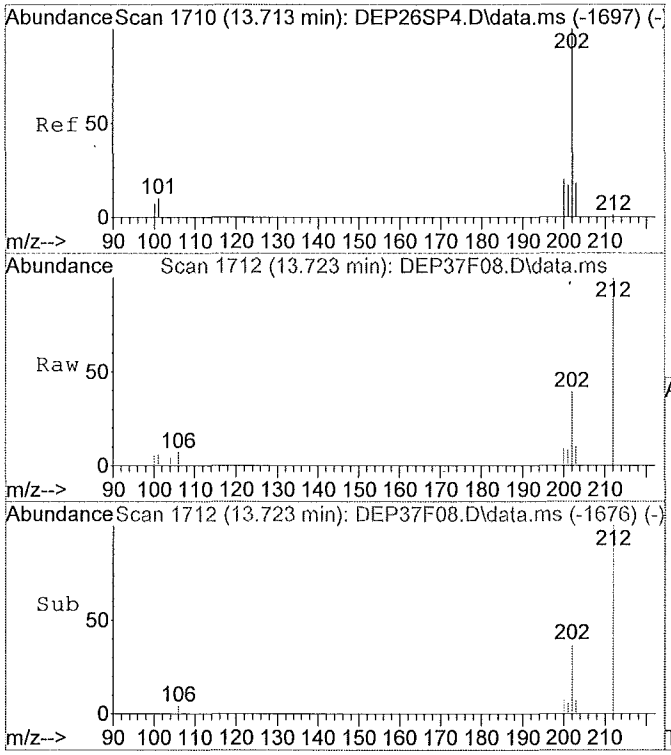


#14
Fluoranthene
Concen: 0.09 ug/ml
RT: 13.37 min Scan# 1641
Delta R.T. 0.01 min
Lab File: DEP37F08.D
Acq: 06/24/2015 09:31

Tgt Ion:202 Resp: 56829

Ion	Ratio	Lower	Upper
202	100		
101	20.4	9.4	17.6#
100	8.4	0.0	0.0#
0	0.0	0.0	0.0

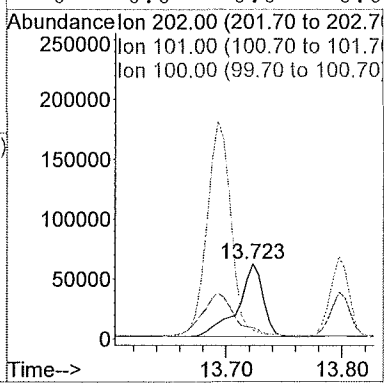


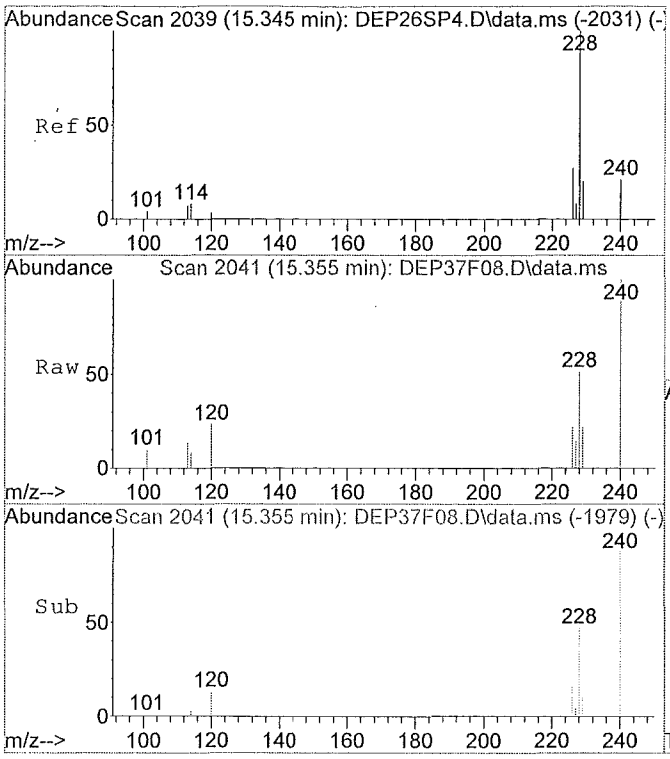


#16
Pyrene
Concen: 0.12 ug/ml
RT: 13.72 min Scan# 1712
Delta R.T. 0.01 min
Lab File: DEP37F08.D
Acq: 06/24/2015 09:31

Tgt Ion:202 Resp: 92180

Ion	Ratio	Lower	Upper
202	100		
101	76.7	10.6	19.6#
100	288.3	9.4	17.4#
0	0.0	0.0	0.0

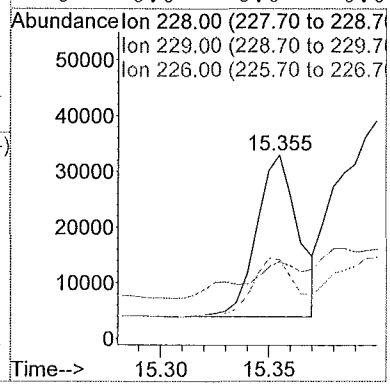


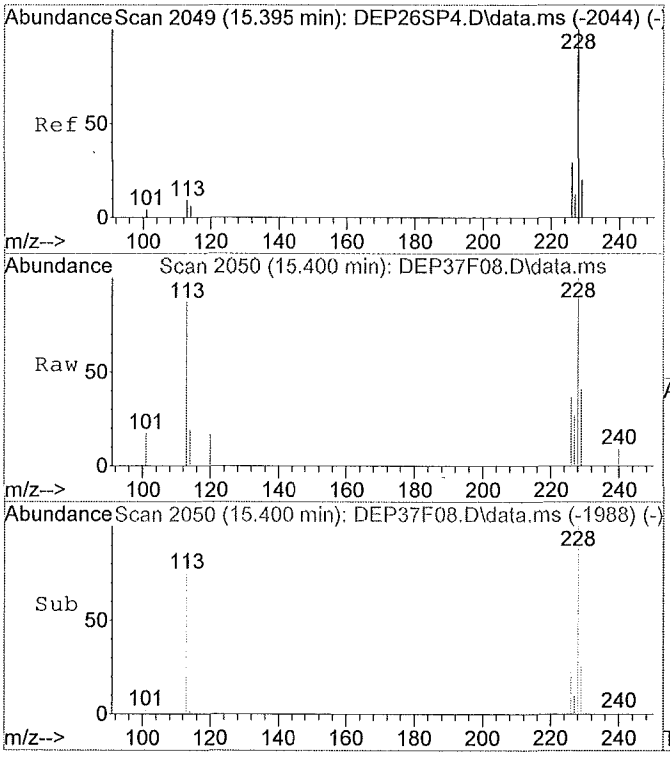


#17
Benzo(a)anthracene
Concen: 0.06 ug/ml
RT: 15.35 min Scan# 2041
Delta R.T. 0.01 min
Lab File: DEP37F08.D
Acq: 06/24/2015 09:31

Tgt Ion:228 Resp: 39120

Ion	Ratio	Lower	Upper
228	100		
229	20.9	14.5	26.9
226	39.1	18.5	34.3#
0	0.0	0.0	0.0

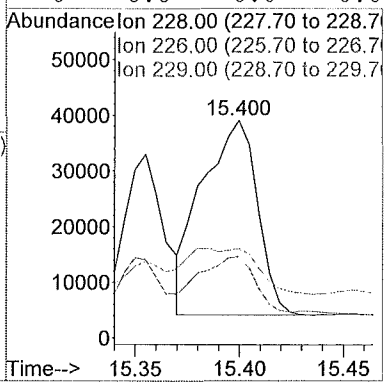


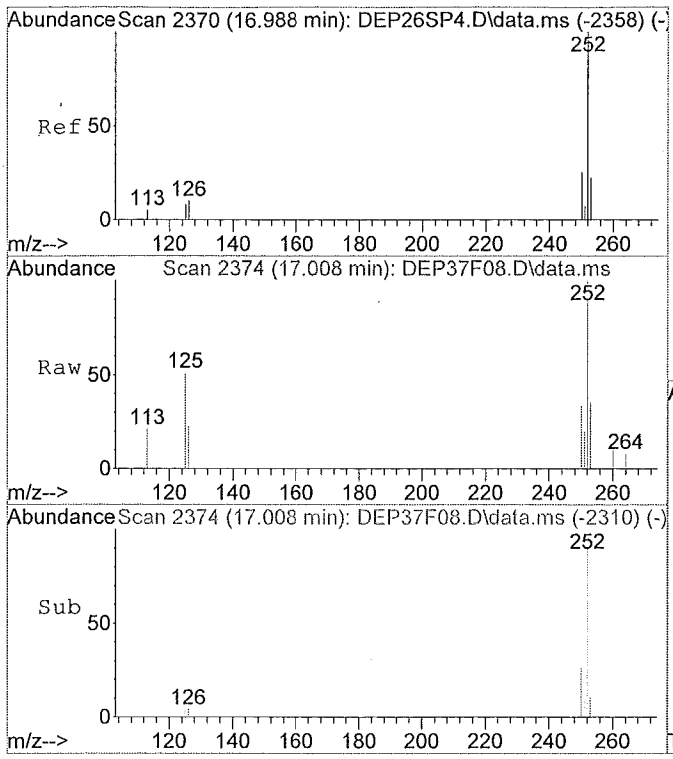


#18
Chrysene
Concen: 0.10 ug/ml
RT: 15.40 min Scan# 2050
Delta R.T. 0.01 min
Lab File: DEP37F08.D
Acq: 06/24/2015 09:31

Tgt Ion:228 Resp: 65002

Ion	Ratio	Lower	Upper
228	100		
226	32.8	19.7	36.7
229	33.4	14.5	26.9#
0	0.0	0.0	0.0

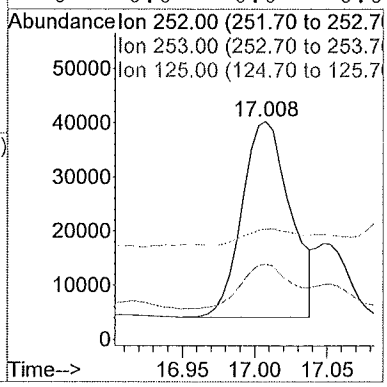


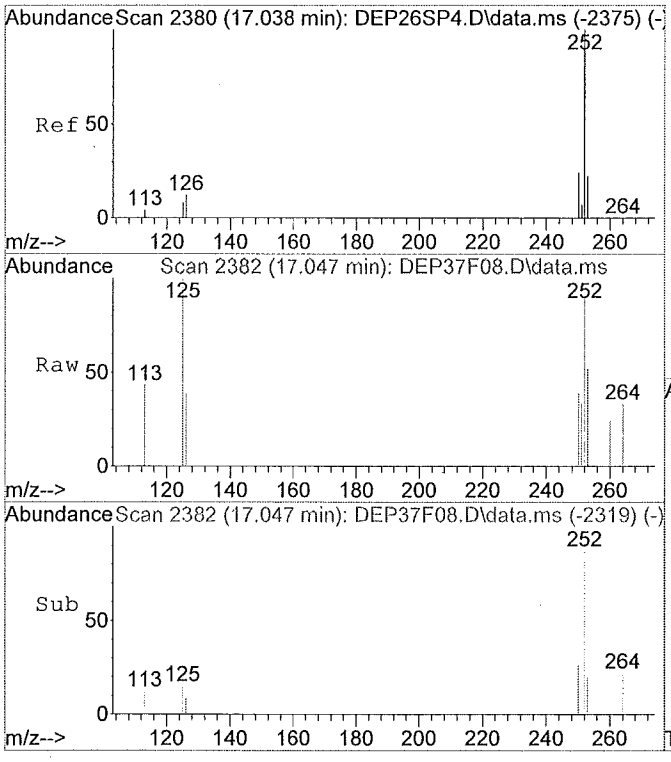


#20
Benzo(b)fluoranthene
Concen: 0.12 ug/ml
RT: 17.01 min Scan# 2374
Delta R.T. 0.02 min
Lab File: DEP37F08.D
Acq: 06/24/2015 09:31

Tgt Ion:252 Resp: 84566

Ion	Ratio	Lower	Upper
252	100		
253	24.0	15.3	28.3
125	9.2	0.0	0.0#
0	0.0	0.0	0.0

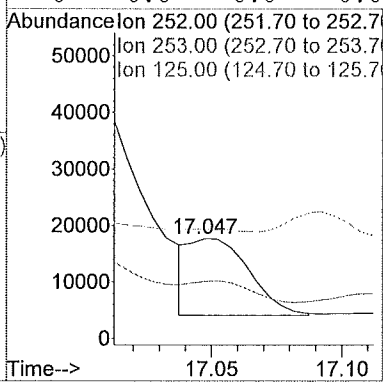


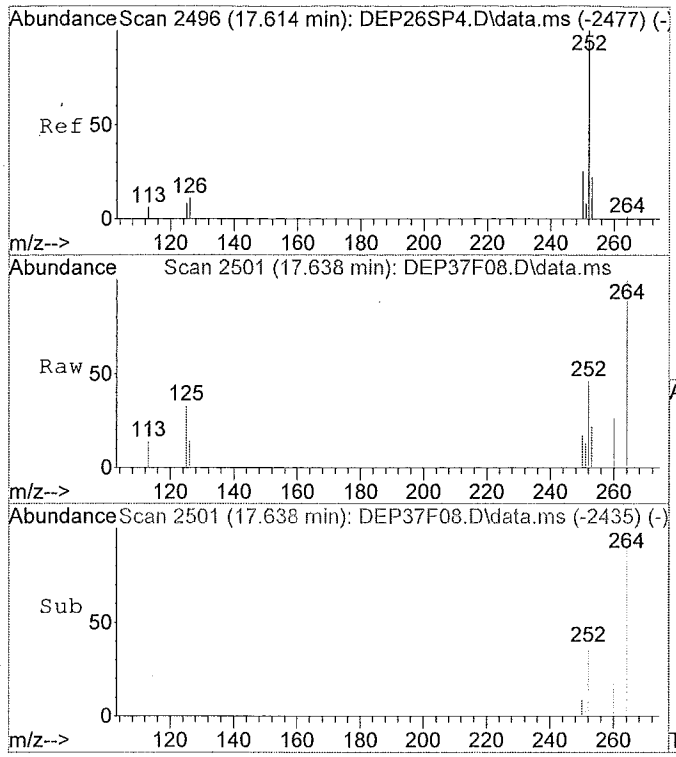


#21
Benzo(k)fluoranthene
Concen: 0.03 ug/ml m
RT: 17.05 min Scan# 2382
Delta R.T. 0.01 min
Lab File: DEP37F08.D
Acq: 06/24/2015 09:31

Tgt Ion:252 Resp: 21825

Ion	Ratio	Lower	Upper
252	100		
253	92.8	15.0	27.8#
125	35.8	0.0	0.0#
0	0.0	0.0	0.0

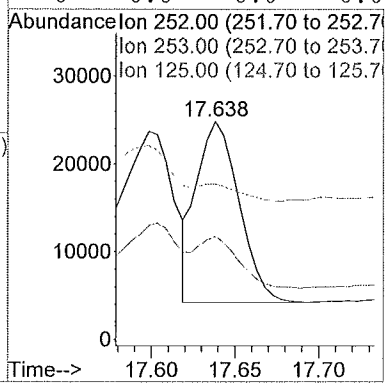


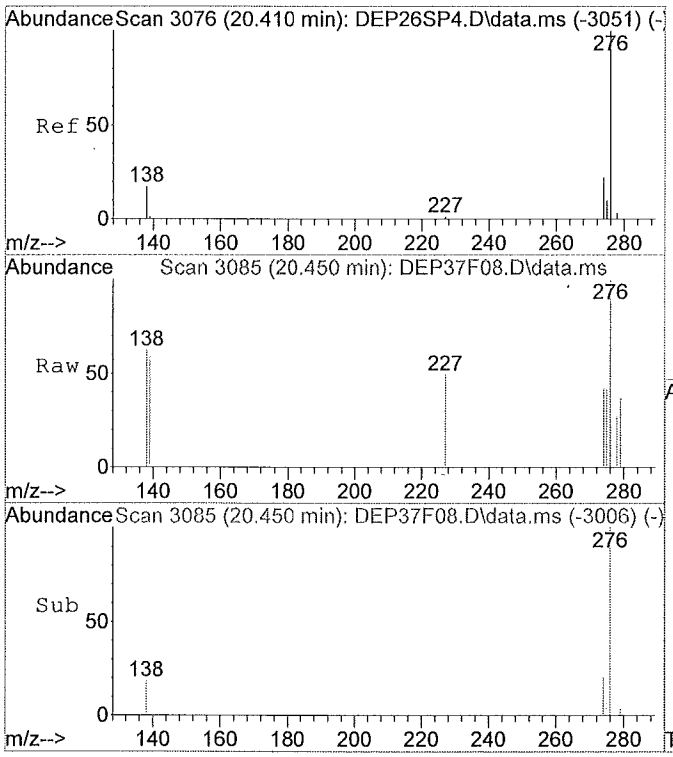


#22
Benzo(a)pyrene
Concen: 0.05 ug/ml
RT: 17.64 min Scan# 2501
Delta R.T. 0.03 min
Lab File: DEP37F08.D
Acq: 06/24/2015 09:31

Tgt Ion:252 Resp: 36685

Ion	Ratio	Lower	Upper
252	100		
253	26.1	15.0	27.8
125	0.0	0.0	0.0
0	0.0	0.0	0.0

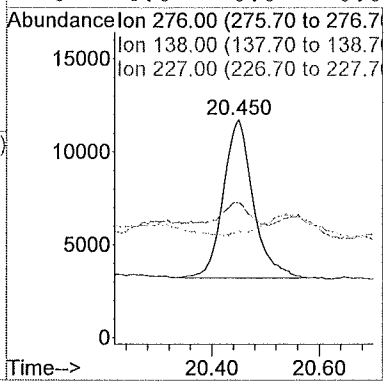


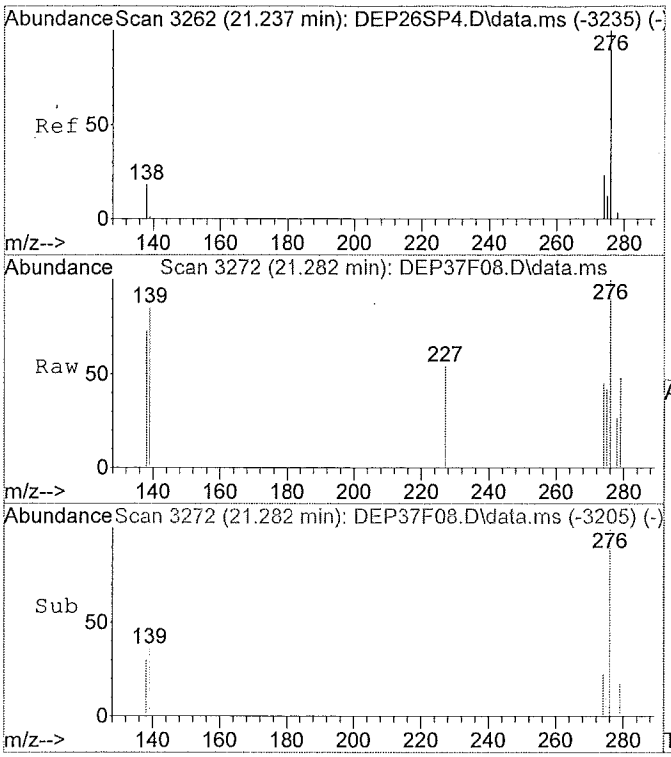


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.05 ug/ml
RT: 20.45 min Scan# 3085
Delta R.T. 0.05 min
Lab File: DEP37F08.D
Acq: 06/24/2015 09:31

Tgt Ion:276 Resp: 32770

Ion	Ratio	Lower	Upper
276	100		
138	11.2	0.0	0.0#
227	0.8	0.0	0.0#
0	0.0	0.0	0.0

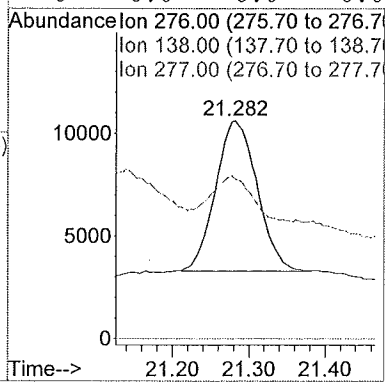




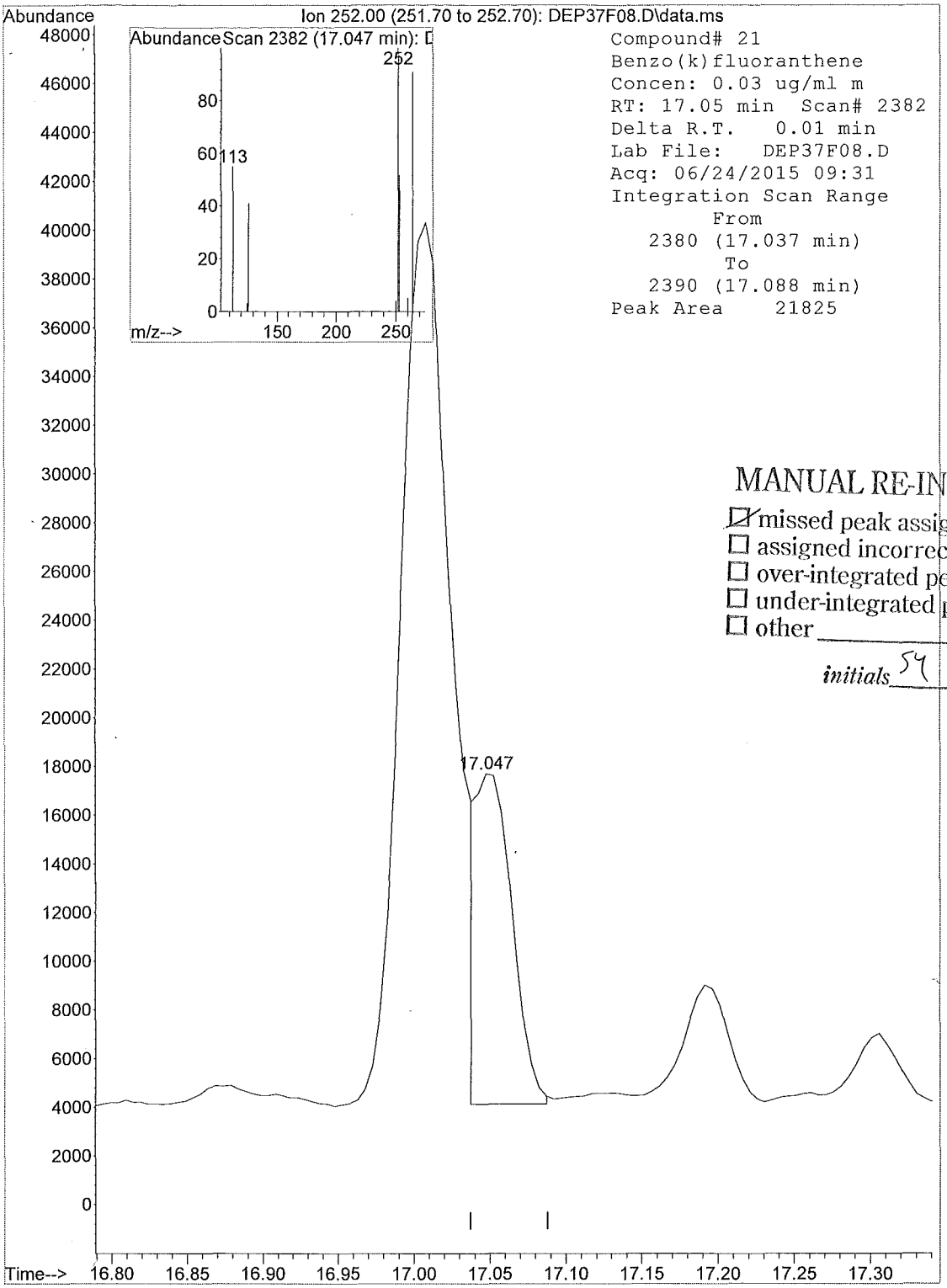
#25
Benzo(g,h,i)perylene
Concen: 0.04 ug/ml
RT: 21.28 min Scan# 3272
Delta R.T. 0.07 min
Lab File: DEP37F08.D
Acq: 06/24/2015 09:31

Tgt Ion:276 Resp: 27571

Ion	Ratio	Lower	Upper
276	100		
138	27.7	16.2	30.0
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☑ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 8/25/15

DSOM_SIMJ2.M 5975-D DSOM_SIMJ2.M 1515725008 F9M88 . SOIL SIM

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M89

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725009

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DEP38F09

Extraction: (Type) SONC

% Moisture: 10. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.0

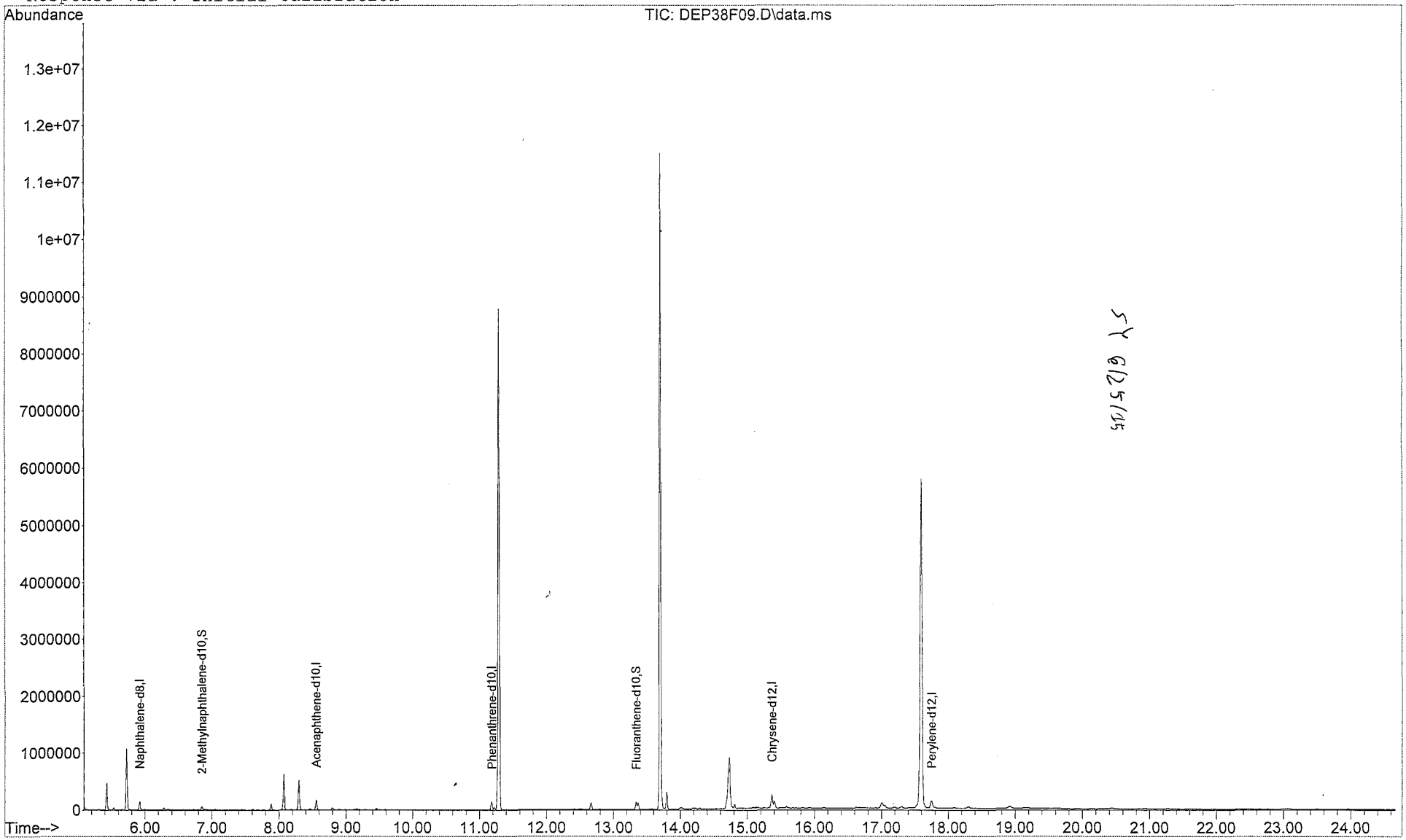
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	0.74	J
91-57-6	2-Methylnaphthalene	0.97	J
208-96-8	Acenaphthylene	1.1	J
83-32-9	Acenaphthene	3.6	U
86-73-7	Fluorene	3.6	U
87-86-5	Pentachlorophenol	7.4	U
85-01-8	Phenanthrene	2.4	J
120-12-7	Anthracene	1.7	J
206-44-0	Fluoranthene	5.1	
129-00-0	Pyrene	5.4	
56-55-3	Benzo(a)anthracene	2.9	J
218-01-9	Chrysene	4.3	
205-99-2	Benzo(b)fluoranthene	6.1	
207-08-9	Benzo(k)fluoranthene	1.8	J
50-32-8	Benzo(a)pyrene	2.3	J
193-39-5	Indeno(1,2,3-cd)pyrene	2.1	J
53-70-3	Dibenzo(a,h)anthracene	3.6	U
191-24-2	Benzo(g,h,i)perylene	0.79	J

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP38F09.D Vial: 35
Acq On : 06/24/2015 10:01 Operator: DJC
Sample : 1515725009 F9M89 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 25 10:35:16 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



6/25/15

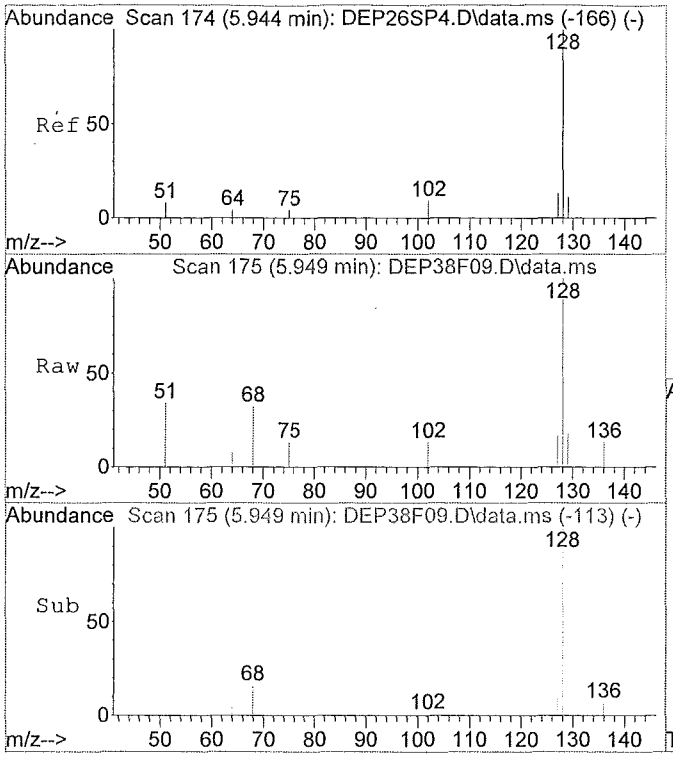
Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP38F09.D Vial: 35
Acq On : 06/24/2015 10:01 Operator: DJC
Sample : 1515725009 F9M89 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 10:35:16 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.92	136	161189	0.40 ug/ml	
5) Acenaphthene-d10	8.56	164	114842	0.40 ug/ml	
9) Phenanthrene-d10	11.18	188	197700	0.40 ug/ml	
15) Chrysene-d12	15.37	240	230847	0.40 ug/ml	
19) Perylene-d12	17.75	264	227423	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.85	152	66342	0.255ug/mL	
13) Fluoranthene-d10	13.34	212	146882	0.272ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.95	128	8425	0.020ug/ml	99
4) 2-Methylnaphthalene	6.90	142	7150	0.026ug/ml	92
6) Acenaphthylene	8.32	152	15032	0.030ug/ml	80
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.23	178	37027	0.065ug/ml	94
12) Anthracene	11.32	178	25460	0.046ug/ml	91
14) Fluoranthene	13.37	202	89161	0.138ug/ml	96
16) Pyrene	13.72	202	106702	0.147ug/ml	65
17) Benzo(a)anthracene	15.35	228	48116	0.078ug/ml	87
18) Chrysene	15.40	228	75715	0.116ug/ml	95
20) Benzo(b)fluoranthene	17.01	252	118029	0.167ug/ml	98
21) Benzo(k)fluoranthene	17.05	252	36065	0.049ug/ml m SJ 6/25/15	97
22) Benzo(a)pyrene	17.63	252	43346	0.064ug/ml	88
23) Indeno(1,2,3-c,d)pyrene	20.44	276	34360	0.058ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	21.27	276	14302	0.021ug/ml	50

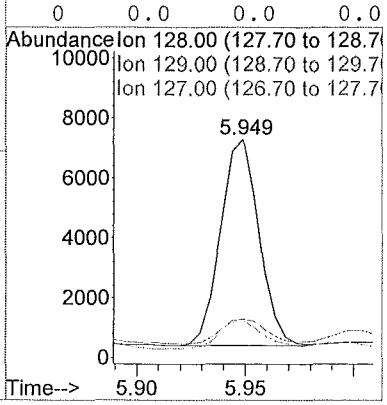
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

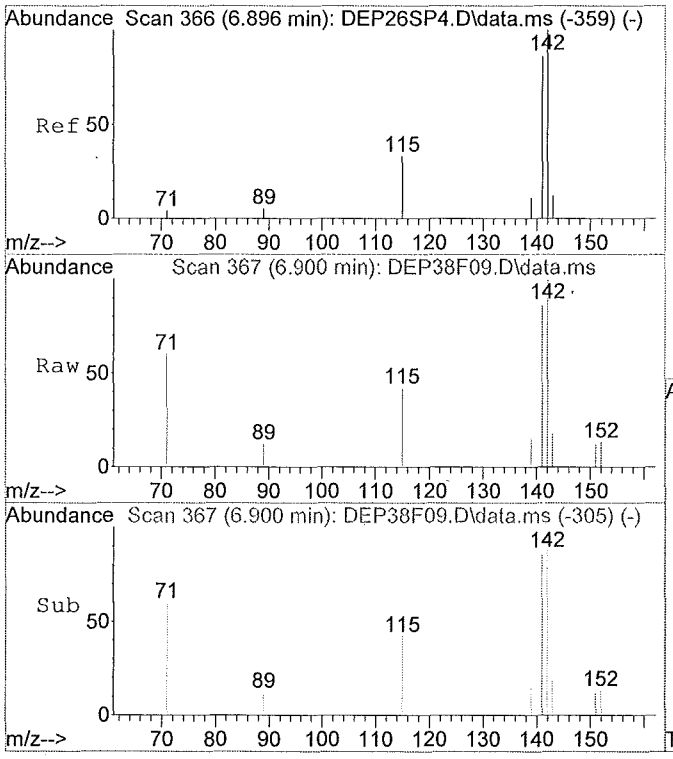


#2
Naphthalene
Concen: 0.02 ug/ml
RT: 5.95 min Scan# 175
Delta R.T. 0.01 min
Lab File: DEP38F09.D
Acq: 06/24/2015 10:01

Tgt Ion:128 Resp: 8425

Ion	Ratio	Lower	Upper
128	100		
129	15.0	0.0	0.0#
127	16.4	11.1	20.5
0	0.0	0.0	0.0

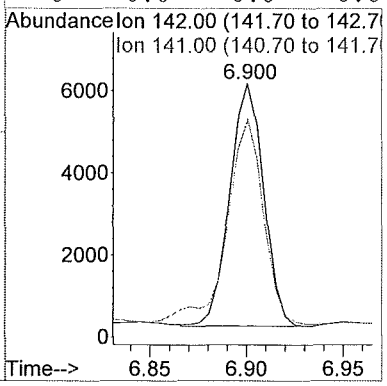


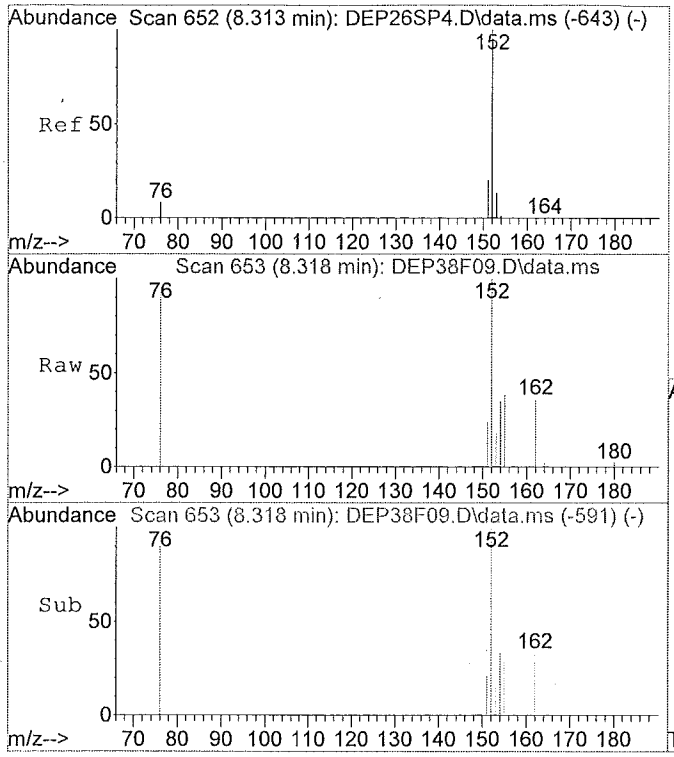


#4
2-Methylnaphthalene
Concen: 0.03 ug/ml
RT: 6.90 min Scan# 367
Delta R.T. 0.00 min
Lab File: DEP38F09.D
Acq: 06/24/2015 10:01

Tgt Ion:142 Resp: 7150

Ion	Ratio	Lower	Upper
142	100		
141	94.9	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

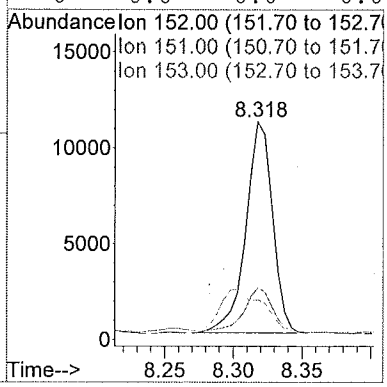


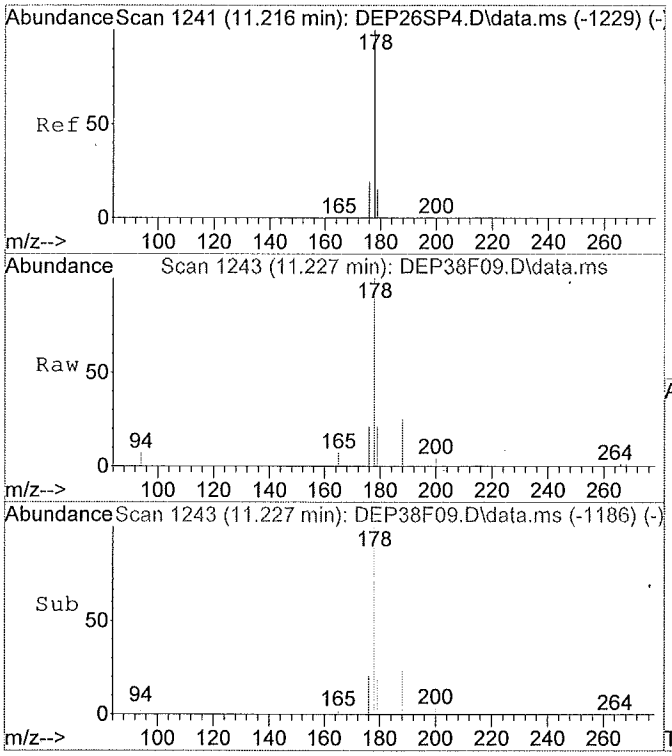


#6
Acenaphthylene
Concen: 0.03 ug/ml
RT: 8.32 min Scan# 653
Delta R.T. 0.01 min
Lab File: DEP38F09.D
Acq: 06/24/2015 10:01

Tgt Ion:152 Resp: 15032

Ion	Ratio	Lower	Upper
152	100		
151	22.4	15.5	28.7
153	33.8	8.8	16.4#
0	0.0	0.0	0.0

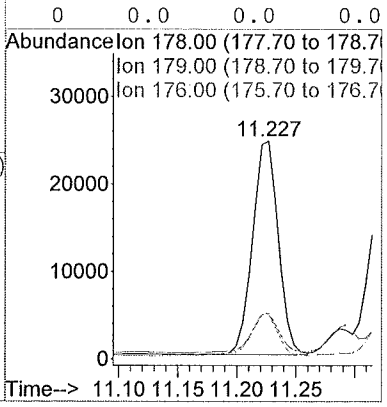


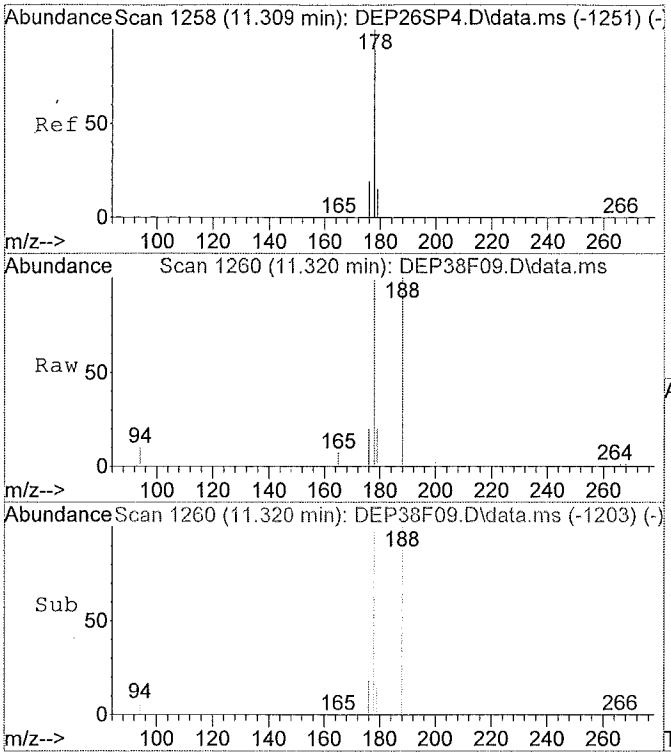


#11
Phenanthrene
Concen: 0.07 ug/ml
RT: 11.23 min Scan# 1243
Delta R.T. 0.01 min
Lab File: DEP38F09.D
Acq: 06/24/2015 10:01

Tgt Ion:178 Resp: 37027

Ion	Ratio	Lower	Upper
178	100		
179	19.9	11.1	20.5
176	21.3	14.1	26.1
0	0.0	0.0	0.0

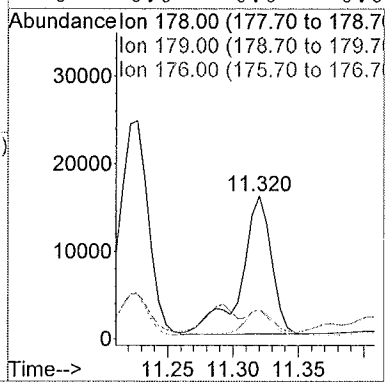


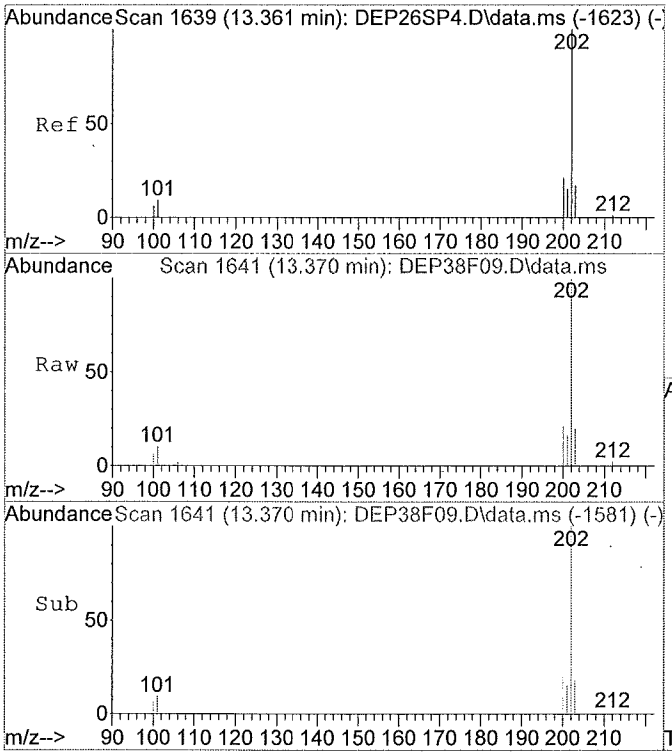


#12
Anthracene
Concen: 0.05 ug/ml
RT: 11.32 min Scan# 1260
Delta R.T. 0.01 min
Lab File: DEP38F09.D
Acq: 06/24/2015 10:01

Tgt Ion:178 Resp: 25460

Ion	Ratio	Lower	Upper
178	100		
179	10.8	11.6	21.6#
176	17.7	13.9	25.7
0	0.0	0.0	0.0

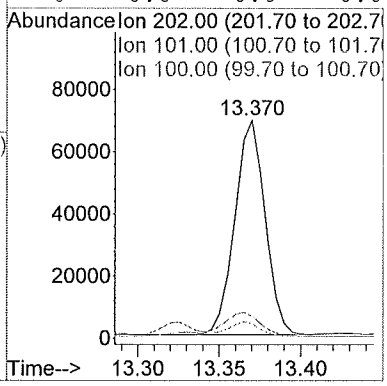


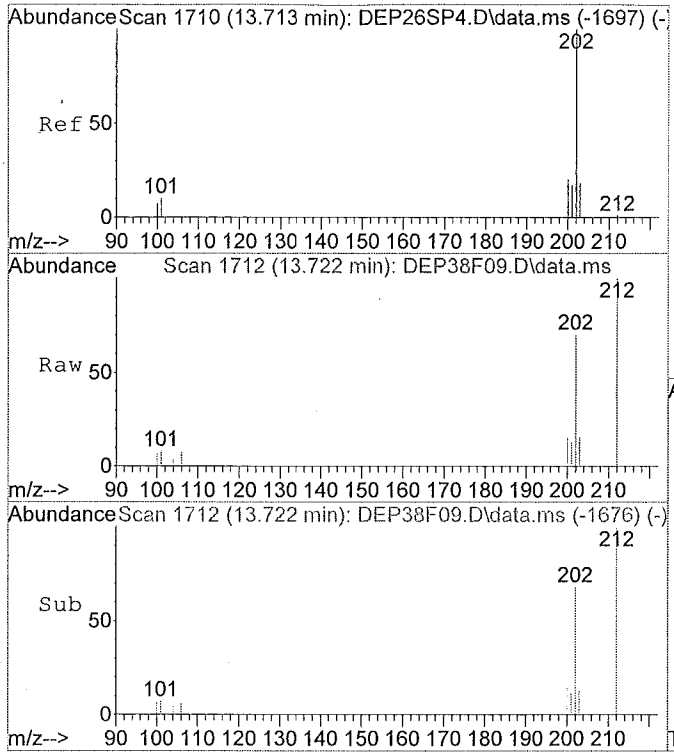


#14
Fluoranthene
Concen: 0.14 ug/ml
RT: 13.37 min Scan# 1641
Delta R.T. 0.01 min
Lab File: DEP38F09.D
Acq: 06/24/2015 10:01

Tgt Ion:202 Resp: 89161

Ion	Ratio	Lower	Upper
202	100		
101	11.8	9.4	17.6
100	7.0	0.0	0.0#
0	0.0	0.0	0.0

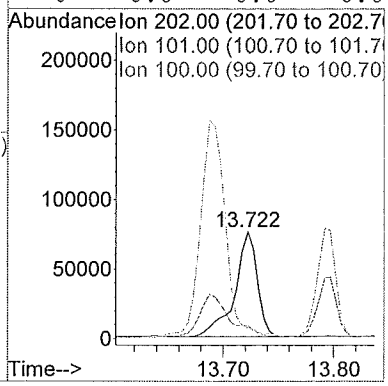


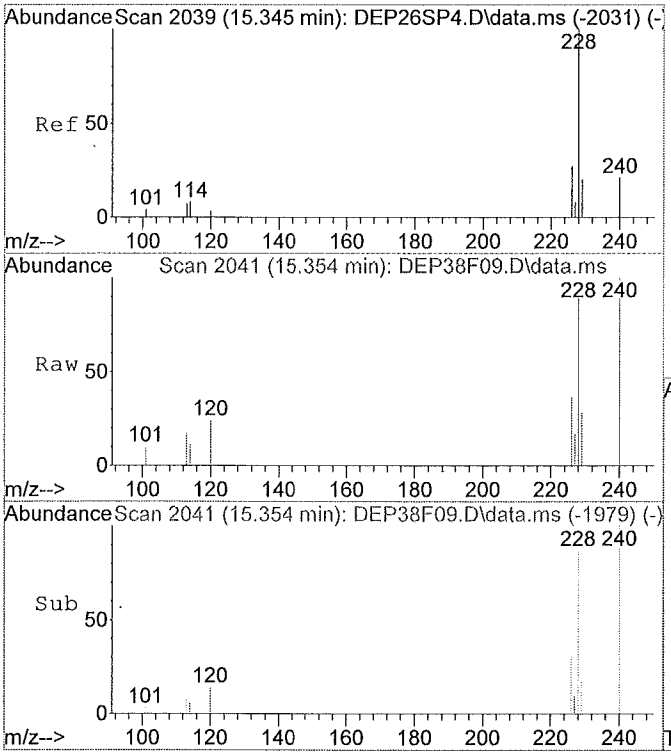


#16
Pyrene
Concen: 0.15 ug/ml
RT: 13.72 min Scan# 1712
Delta R.T. 0.01 min
Lab File: DEP38F09.D
Acq: 06/24/2015 10:01

Tgt Ion:202 Resp: 106702

Ion	Ratio	Lower	Upper
202	100		
101	0.0	10.6	19.6#
100	0.0	9.4	17.4#
0	0.0	0.0	0.0

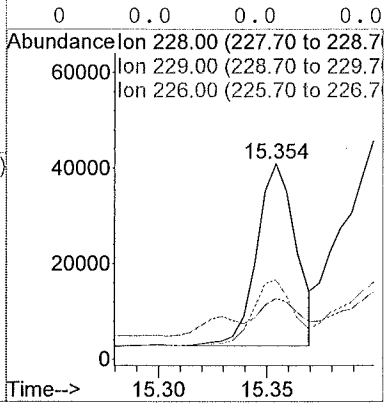


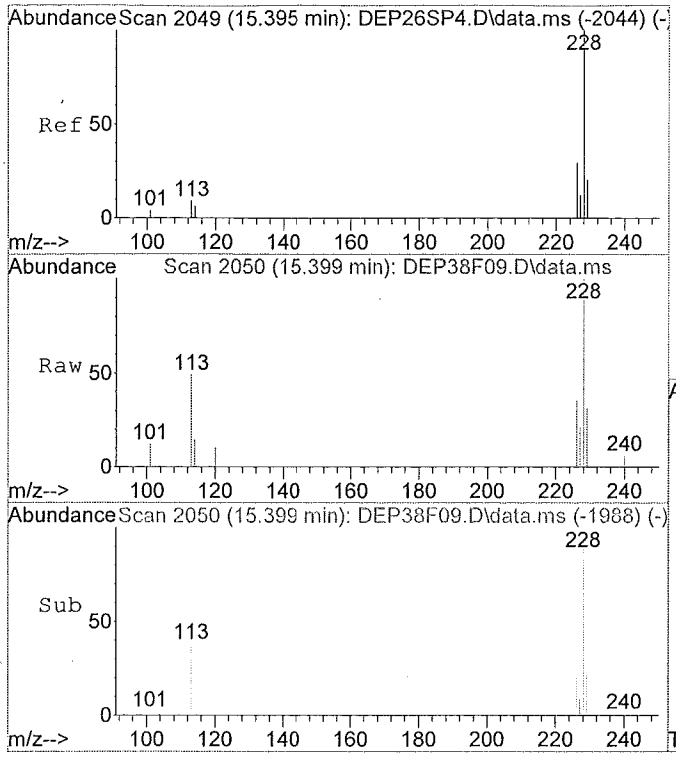


#17
Benzo(a)anthracene
Concen: 0.08 ug/ml
RT: 15.35 min Scan# 2041
Delta R.T. 0.01 min
Lab File: DEP38F09.D
Acq: 06/24/2015 10:01

Tgt Ion:228 Resp: 48116

Ion	Ratio	Lower	Upper
228	100		
229	19.7	14.5	26.9
226	37.3	18.5	34.3#
0	0.0	0.0	0.0

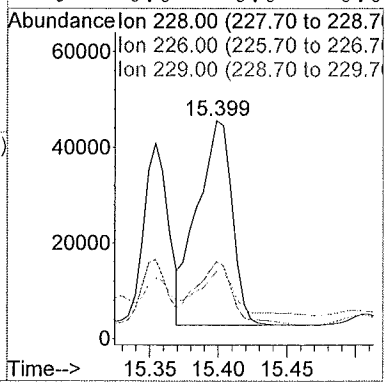


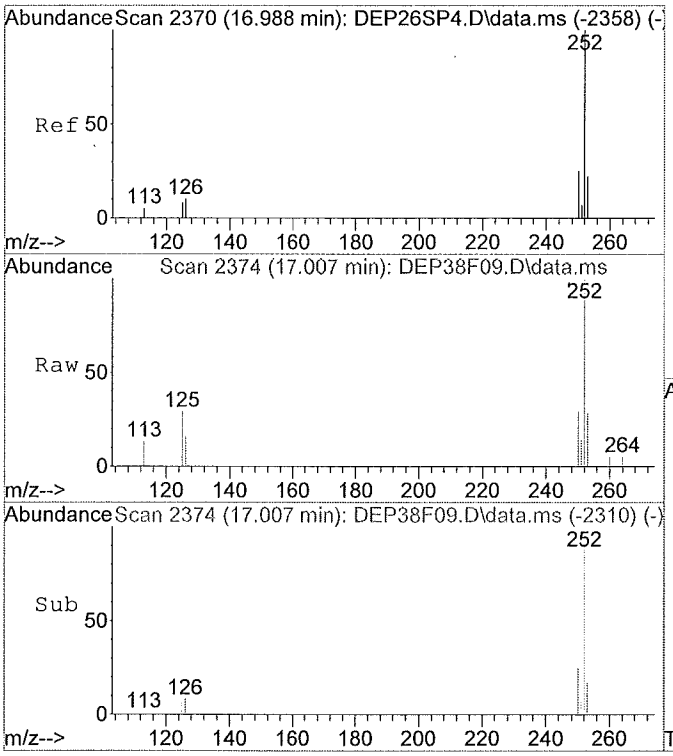


#18
Chrysene
Concen: 0.12 ug/ml
RT: 15.40 min Scan# 2050
Delta R.T. 0.01 min
Lab File: DEP38F09.D
Acq: 06/24/2015 10:01

Tgt Ion:228 Resp: 75715

Ion	Ratio	Lower	Upper
228	100		
226	32.3	19.7	36.7
229	21.7	14.5	26.9
0	0.0	0.0	0.0

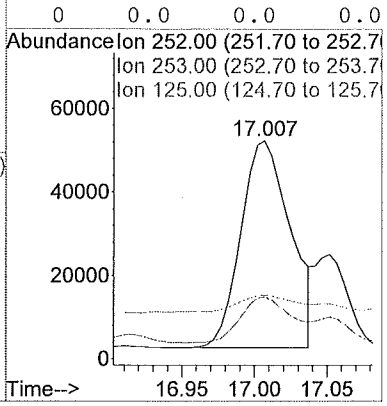




#20
Benzo(b)fluoranthene
Concen: 0.17 ug/ml
RT: 17.01 min Scan# 2374
Delta R.T. 0.02 min
Lab File: DEP38F09.D
Acq: 06/24/2015 10:01

Tgt Ion:252 Resp: 118029

Ion	Ratio	Lower	Upper
252	100		
253	22.8	15.3	28.3
125	9.6	0.0	0.0#
0	0.0	0.0	0.0



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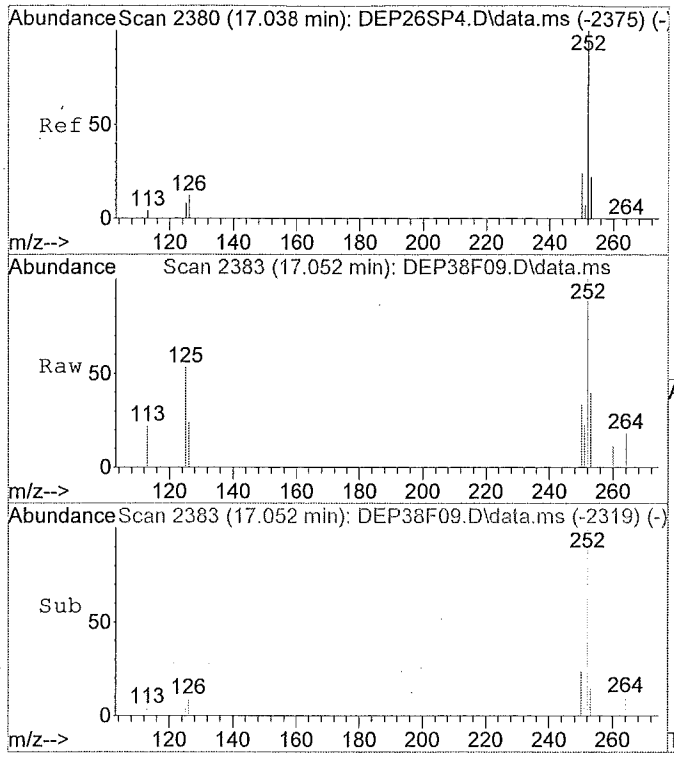
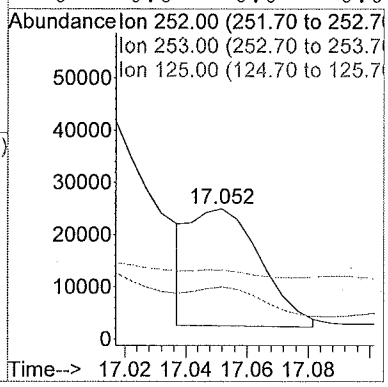
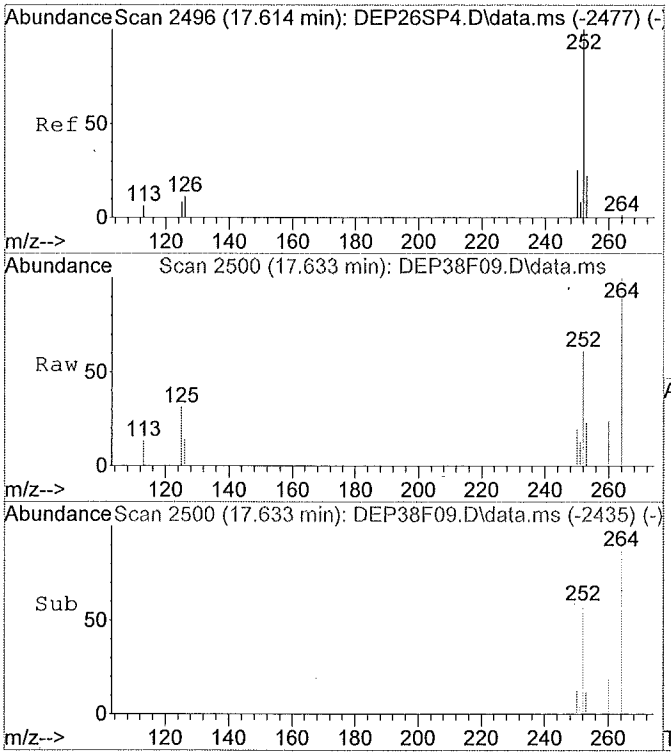


#21
Benzo(k)fluoranthene
Concen: 0.05 ug/ml m
RT: 17.05 min Scan# 2383
Delta R.T. 0.02 min
Lab File: DEP38F09.D
Acq: 06/24/2015 10:01

Tgt Ion:252 Resp: 36065

Ion	Ratio	Lower	Upper
252	100		
253	74.8	15.0	27.8#
125	31.6	0.0	0.0#
0	0.0	0.0	0.0

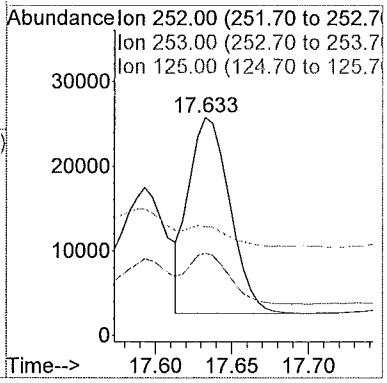


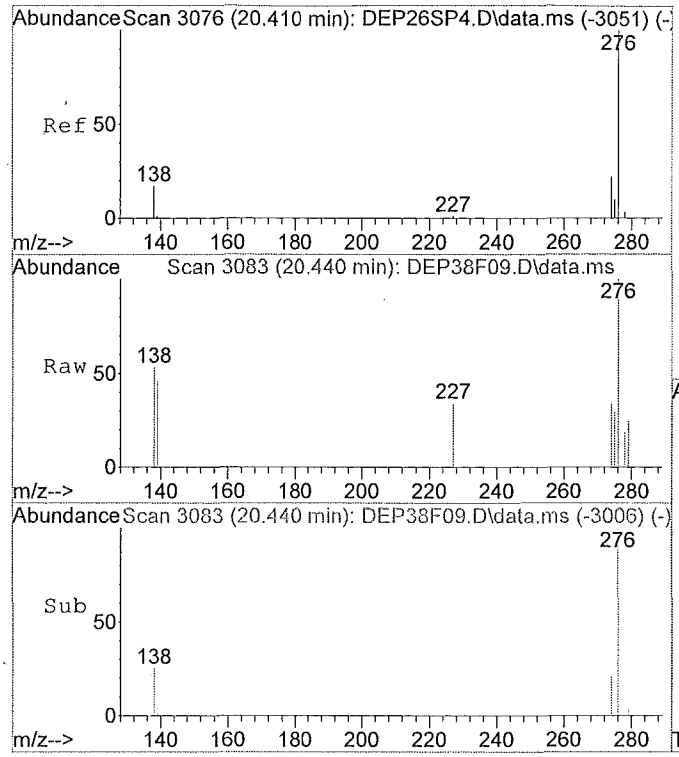


#22
Benzo(a)pyrene
Concen: 0.06 ug/ml
RT: 17.63 min Scan# 2500
Delta R.T. 0.02 min
Lab File: DEP38F09.D
Acq: 06/24/2015 10:01

Tgt Ion:252 Resp: 43346

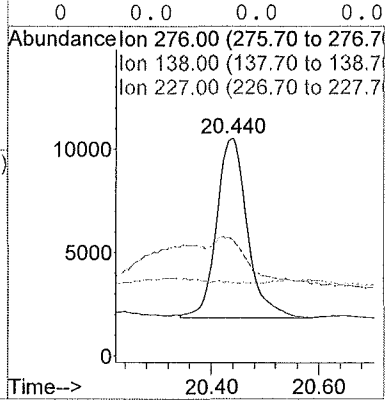
Ion	Ratio	Lower	Upper
252	100		
253	26.9	15.0	27.8
125	9.7	0.0	0.0#
0	0.0	0.0	0.0

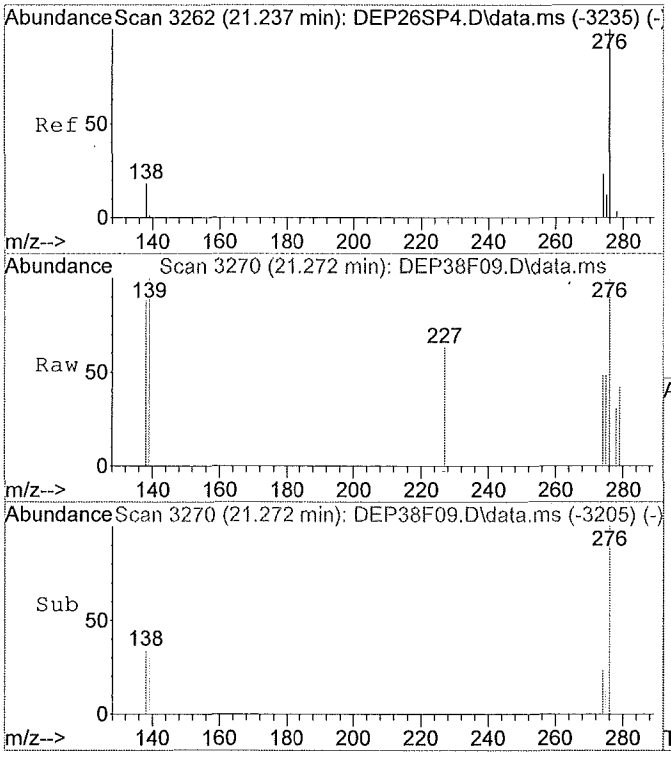




#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.06 ug/ml
RT: 20.44 min Scan# 3083
Delta R.T. 0.04 min
Lab File: DEP38F09.D
Acq: 06/24/2015 10:01

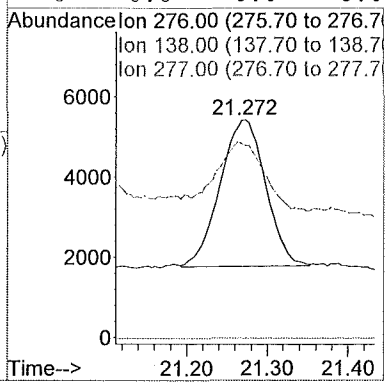
Tgt Ion:276	Resp:	34360	
Ion	Ratio	Lower	Upper
276	100		
138	0.0	0.0	0.0
227	0.0	0.0	0.0
0	0.0	0.0	0.0



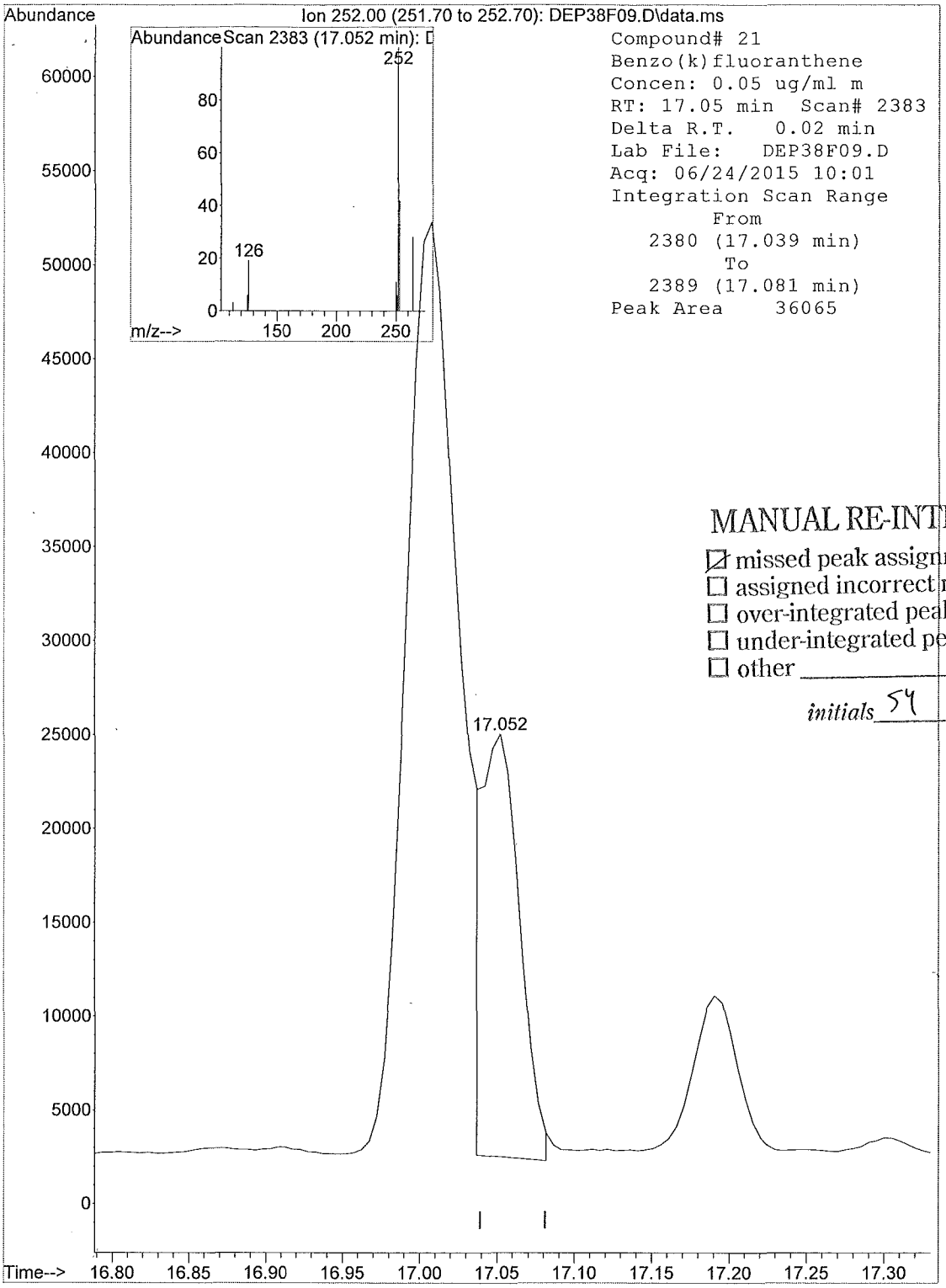


#25
Benzo(g,h,i)perylene
Concen: 0.02 ug/ml
RT: 21.27 min Scan# 3270
Delta R.T. 0.06 min
Lab File: DEP38F09.D
Acq: 06/24/2015 10:01

Tgt Ion:276	Resp:	14302	
Ion	Ratio	Lower	Upper
276	100		
138	48.1	16.2	30.0#
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 6/25/15

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M90

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725010

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DEP39F10

Extraction: (Type) SONC

% Moisture: 10. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

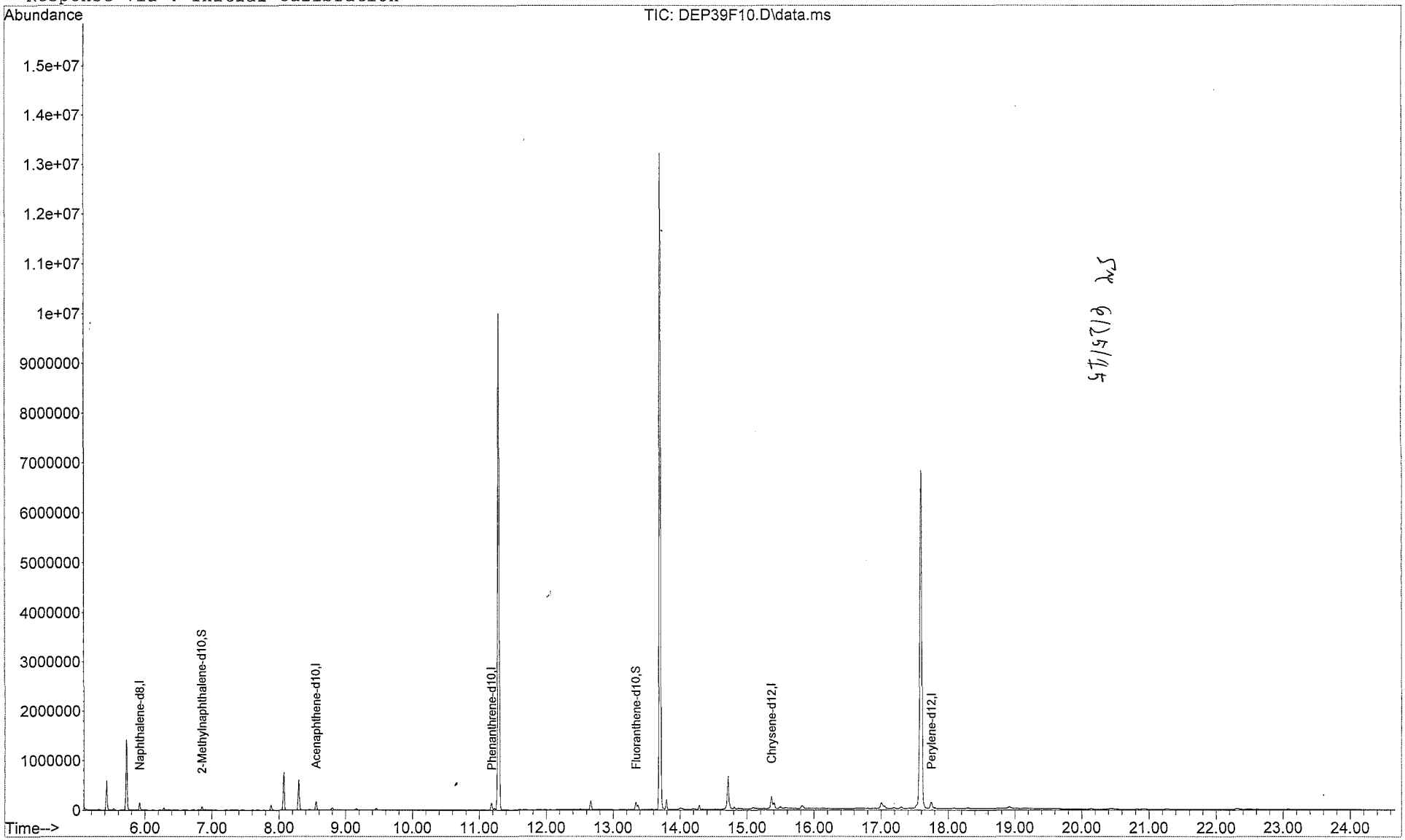
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.6	U
91-57-6	2-Methylnaphthalene	0.84	J
208-96-8	Acenaphthylene	1.3	J
83-32-9	Acenaphthene	3.6	U
86-73-7	Fluorene	3.6	U
87-86-5	Pentachlorophenol	7.4	U
85-01-8	Phenanthrene	1.8	J
120-12-7	Anthracene	2.0	J
206-44-0	Fluoranthene	4.3	
129-00-0	Pyrene	6.0	
56-55-3	Benzo(a)anthracene	3.6	J
218-01-9	Chrysene	4.7	
205-99-2	Benzo(b)fluoranthene	7.8	
207-08-9	Benzo(k)fluoranthene	2.0	J
50-32-8	Benzo(a)pyrene	3.0	J
193-39-5	Indeno(1,2,3-cd)pyrene	2.6	J
53-70-3	Dibenzo(a,h)anthracene	3.6	U
191-24-2	Benzo(g,h,i)perylene	0.76	J

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP39F10.D Vial: 36
Acq On : 06/24/2015 10:31 Operator: DJC
Sample : 1515725010 F9M90 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 25 10:35:49 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



DEP39F10.D DSOM_SIMJ2.M Thu Jun 25 10:41:10 2015 Page 2

Quantitation Report

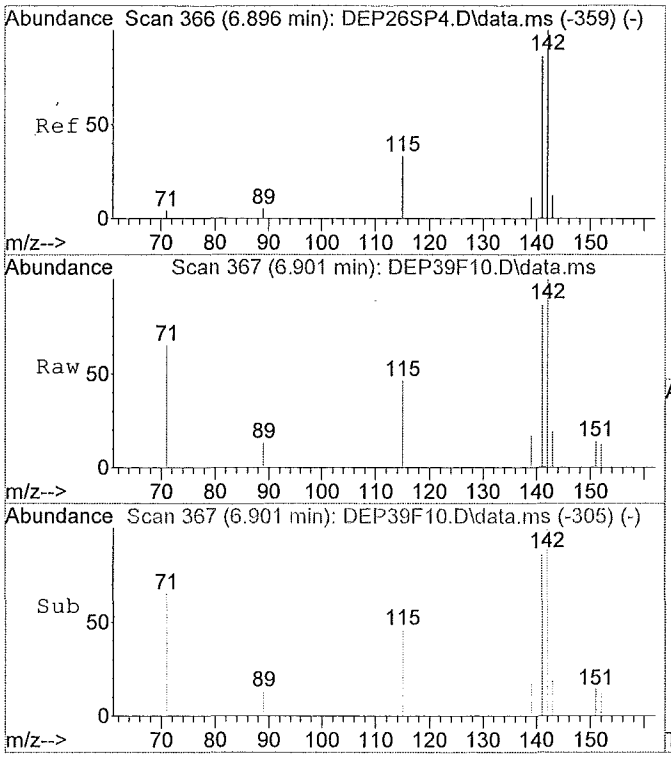
Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP39F10.D Vial: 36
Acq On : 06/24/2015 10:31 Operator: DJC
Sample : 1515725010 F9M90 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 10:35:49 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Qvalue
1) Naphthalene-d8	5.92	136	154699	0.40 ug/ml	
5) Acenaphthene-d10	8.56	164	114080	0.40 ug/ml	
9) Phenanthrene-d10	11.18	188	195771	0.40 ug/ml	
15) Chrysene-d12	15.36	240	230646	0.40 ug/ml	
19) Perylene-d12	17.75	264	227118	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.85	152	80422	0.322ug/mL	
13) Fluoranthene-d10	13.34	212	174006	0.325ug/mL	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	6.90	142	5924	0.023ug/ml	92
6) Acenaphthylene	8.32	152	18072	0.036ug/ml	82
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.22	178	27020	0.048ug/ml	89
12) Anthracene	11.32	178	30182	0.055ug/ml	90
14) Fluoranthene	13.37	202	75238	0.117ug/ml	99
16) Pyrene	13.72	202	117492	0.162ug/ml	1
17) Benzo(a)anthracene	15.35	228	60879	0.099ug/ml	88
18) Chrysene	15.40	228	84011	0.129ug/ml	95
20) Benzo(b)fluoranthene	17.00	252	150557	0.213ug/ml	98
21) Benzo(k)fluoranthene	17.05	252	39583	0.054ug/ml m	97
22) Benzo(a)pyrene	17.63	252	55606	0.082ug/ml	91
23) Indeno(1,2,3-c,d)pyrene	20.44	276	41631	0.070ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	21.27	276	13740	0.021ug/ml	60

SY 6/25/15

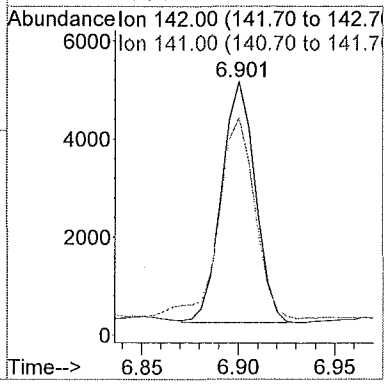
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

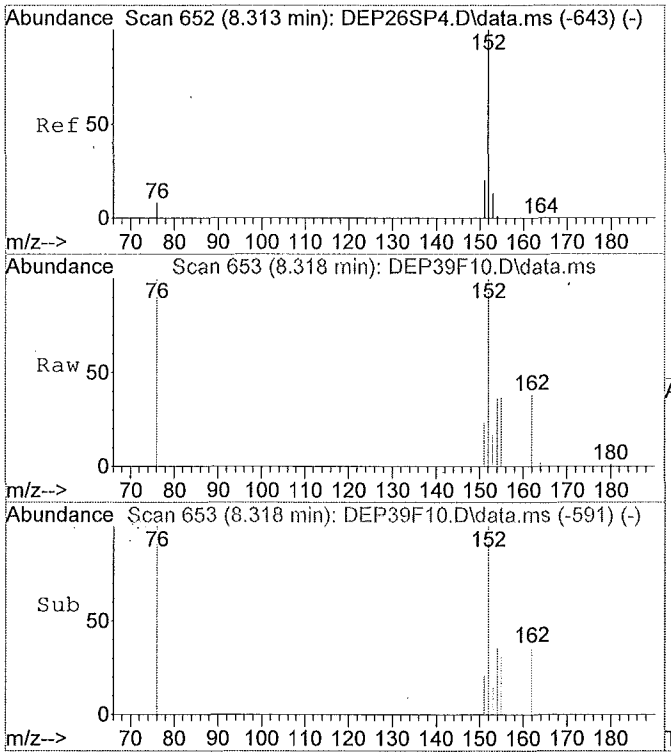


#4
2-Methylnaphthalene
Concen: 0.02 ug/ml
RT: 6.90 min Scan# 367
Delta R.T. 0.00 min
Lab File: DEP39F10.D
Acq: 06/24/2015 10:31

Tgt Ion:142 Resp: 5924

Ion	Ratio	Lower	Upper
142	100		
141	95.0	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

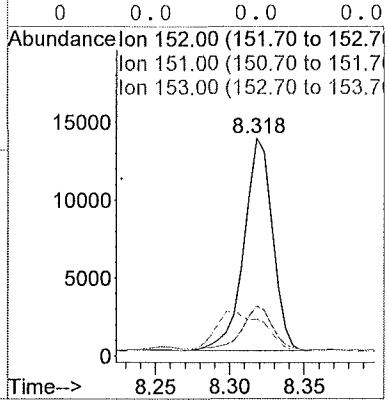


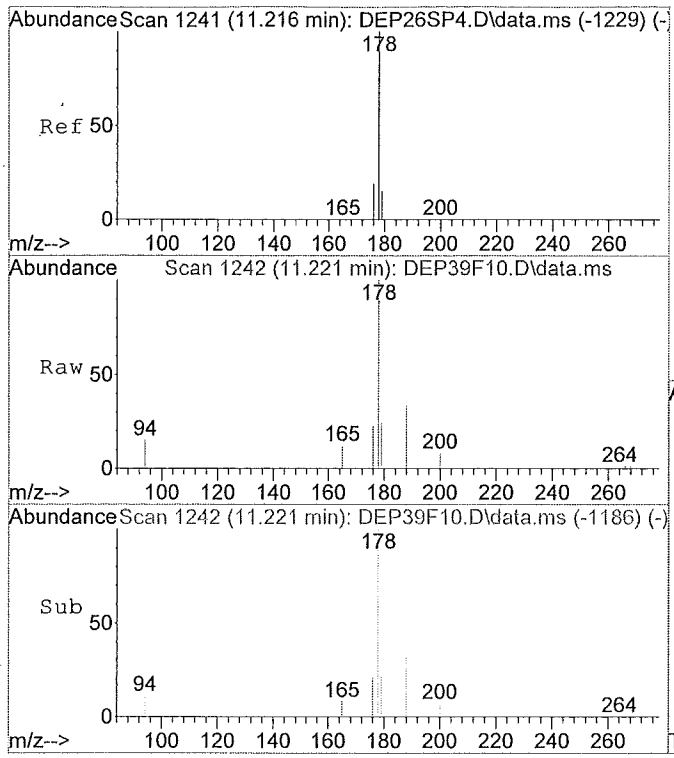


#6
Acenaphthylene
Concen: 0.04 ug/ml
RT: 8.32 min Scan# 653
Delta R.T. 0.01 min
Lab File: DEP39F10.D
Acq: 06/24/2015 10:31

Tgt Ion:152 Resp: 18072

Ion	Ratio	Lower	Upper
152	100		
151	22.1	15.5	28.7
153	31.7	8.8	16.4#
0	0.0	0.0	0.0

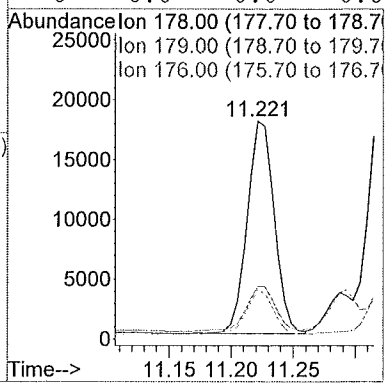


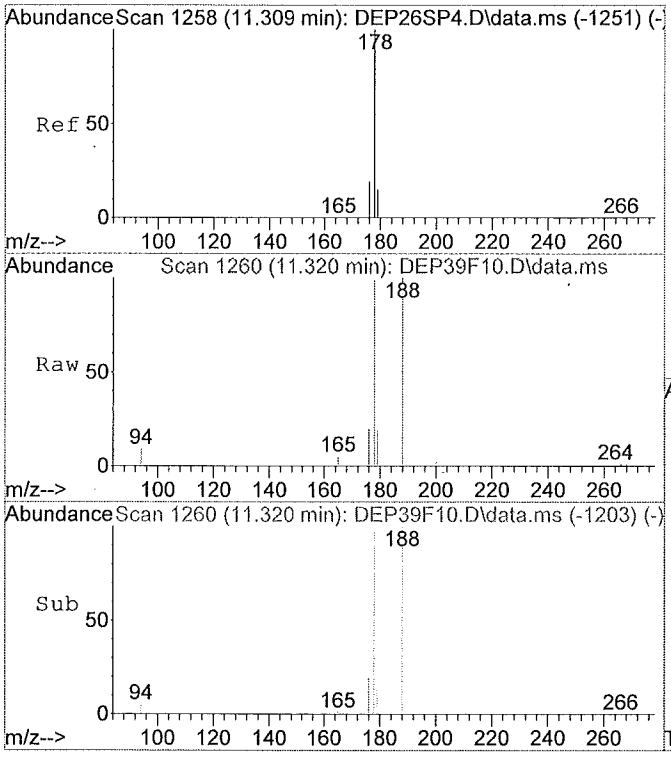


#11
Phenanthrene
Concen: 0.05 ug/ml
RT: 11.22 min Scan# 1242
Delta R.T. 0.01 min
Lab File: DEP39F10.D
Acq: 06/24/2015 10:31

Tgt Ion:178 Resp: 27020

Ion	Ratio	Lower	Upper
178	100		
179	23.3	11.1	20.5#
176	22.6	14.1	26.1
0	0.0	0.0	0.0

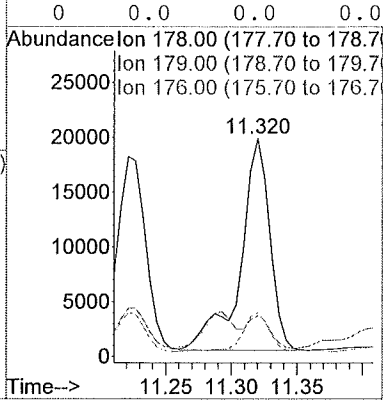


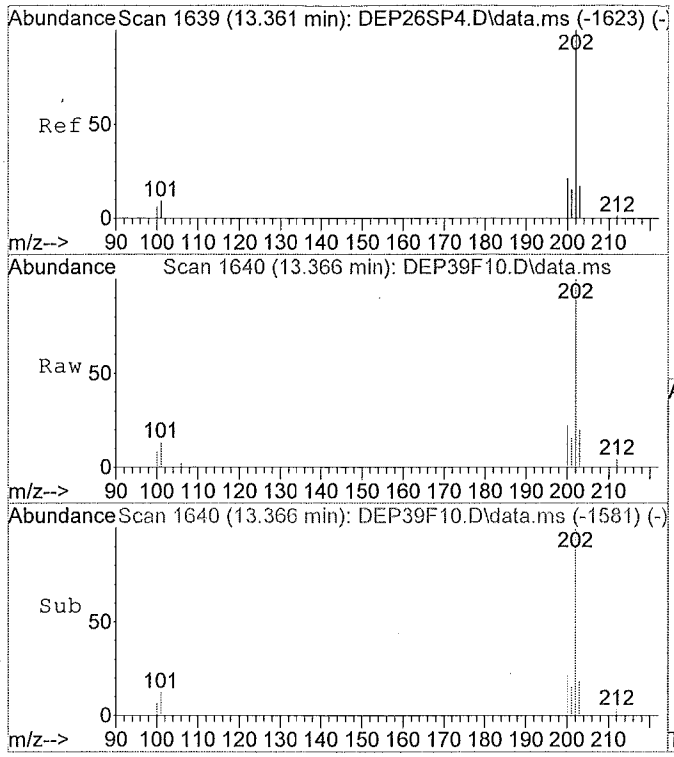


#12
Anthracene
Concen: 0.06 ug/ml
RT: 11.32 min Scan# 1260
Delta R.T. 0.01 min
Lab File: DEP39F10.D
Acq: 06/24/2015 10:31

Tgt Ion:178 Resp: 30182

Ion	Ratio	Lower	Upper
178	100		
179	10.8	11.6	21.6#
176	16.7	13.9	25.7
0	0.0	0.0	0.0

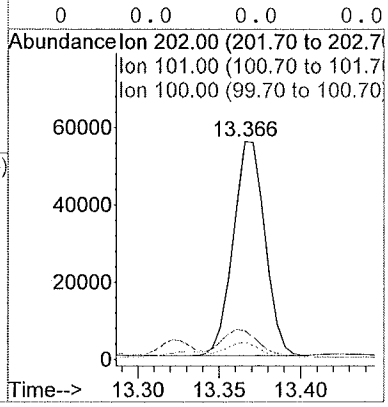


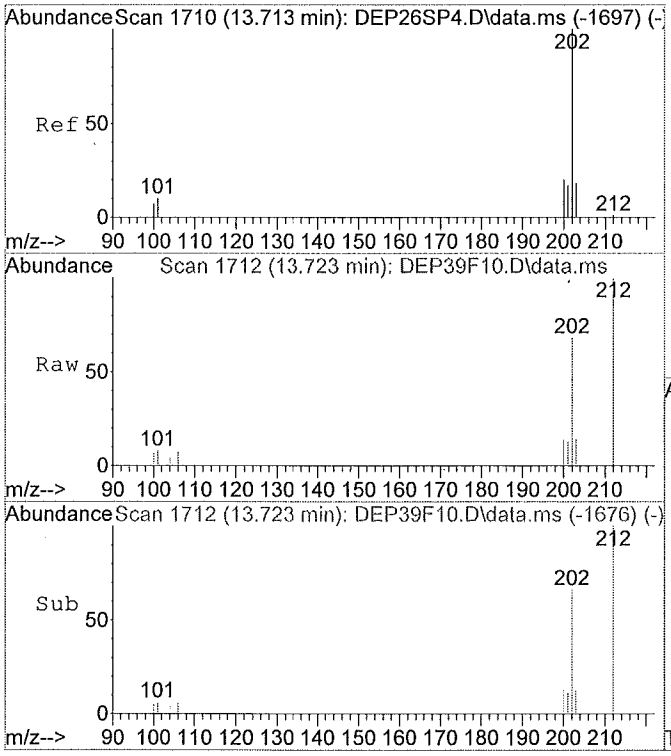


#14
Fluoranthene
Concen: 0.12 ug/ml
RT: 13.37 min Scan# 1640
Delta R.T. 0.00 min
Lab File: DEP39F10.D
Acq: 06/24/2015 10:31

Tgt Ion:202 Resp: 75238

Ion	Ratio	Lower	Upper
202	100		
101	13.2	9.4	17.6
100	7.3	0.0	0.0#
0	0.0	0.0	0.0

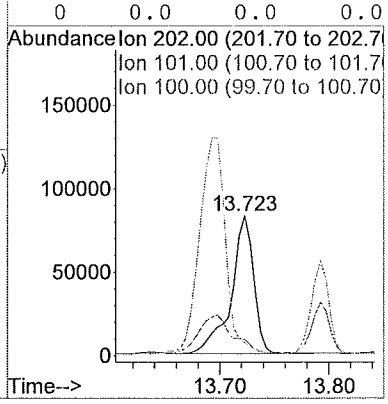


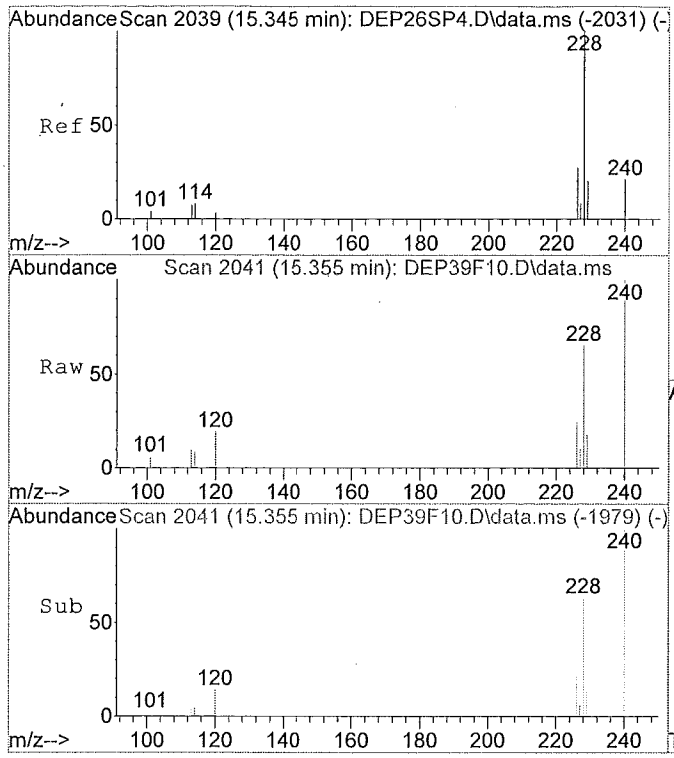


#16
Pyrene
Concen: 0.16 ug/ml
RT: 13.72 min Scan# 1712
Delta R.T. 0.01 min
Lab File: DEP39F10.D
Acq: 06/24/2015 10:31

Tgt Ion:202 Resp: 117492

Ion	Ratio	Lower	Upper
202	100		
101	43.3	10.6	19.6#
100	188.1	9.4	17.4#
0	0.0	0.0	0.0

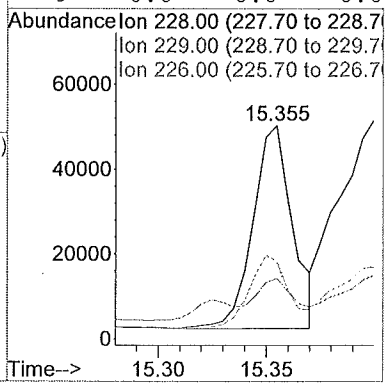


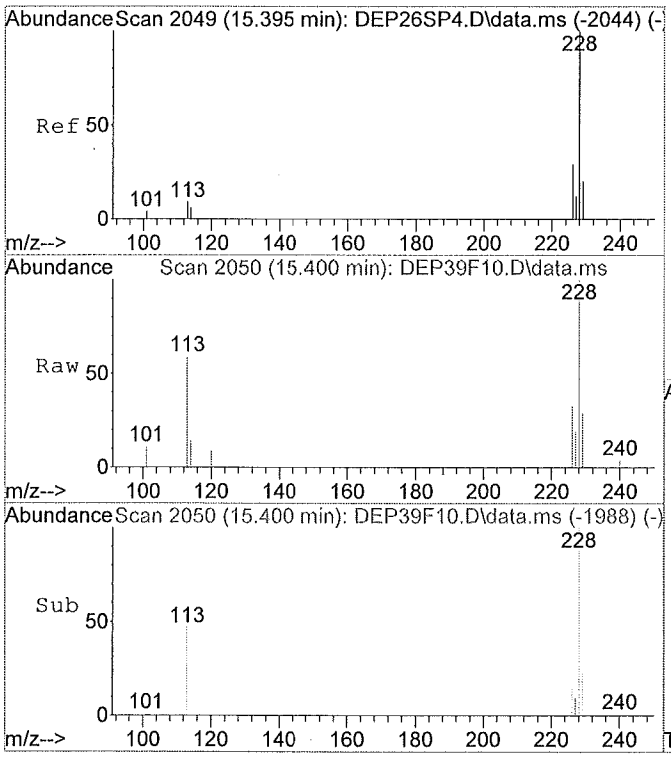


#17
Benzo(a)anthracene
Concen: 0.10 ug/ml
RT: 15.35 min Scan# 2041
Delta R.T. 0.01 min
Lab File: DEP39F10.D
Acq: 06/24/2015 10:31

Tgt Ion:228 Resp: 60879

Ion	Ratio	Lower	Upper
228	100		
229	20.3	14.5	26.9
226	37.3	18.5	34.3#
0	0.0	0.0	0.0

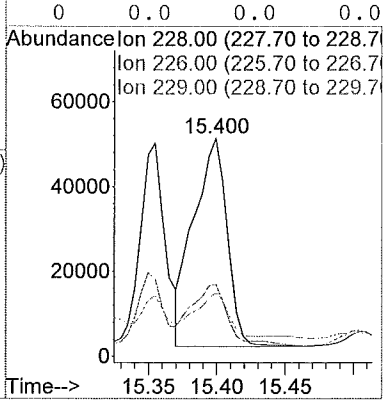


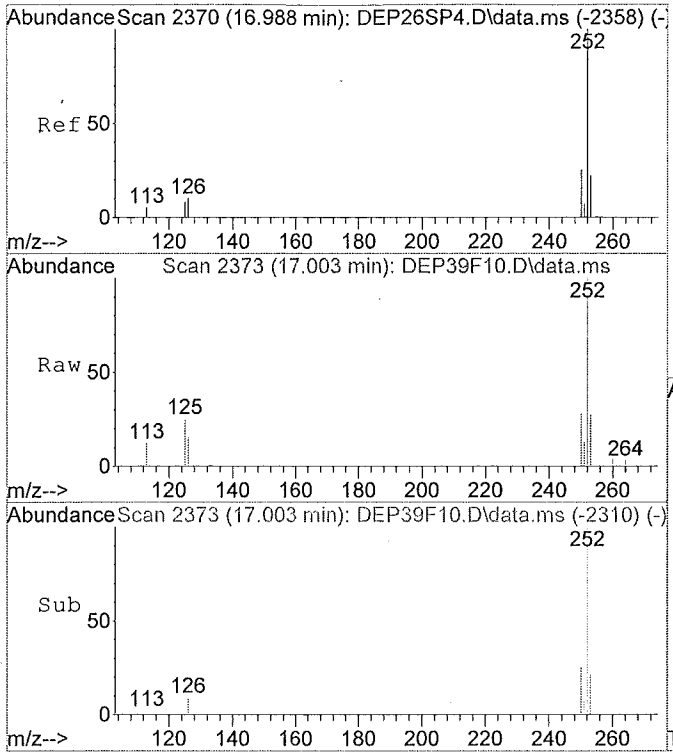


#18
Chrysene
Concen: 0.13 ug/ml
RT: 15.40 min Scan# 2050
Delta R.T. 0.01 min
Lab File: DEP39F10.D
Acq: 06/24/2015 10:31

Tgt Ion:228 Resp: 84011

Ion	Ratio	Lower	Upper
228	100		
226	32.9	19.7	36.7
229	20.4	14.5	26.9
0	0.0	0.0	0.0

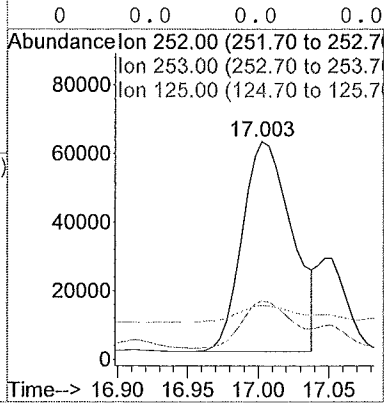


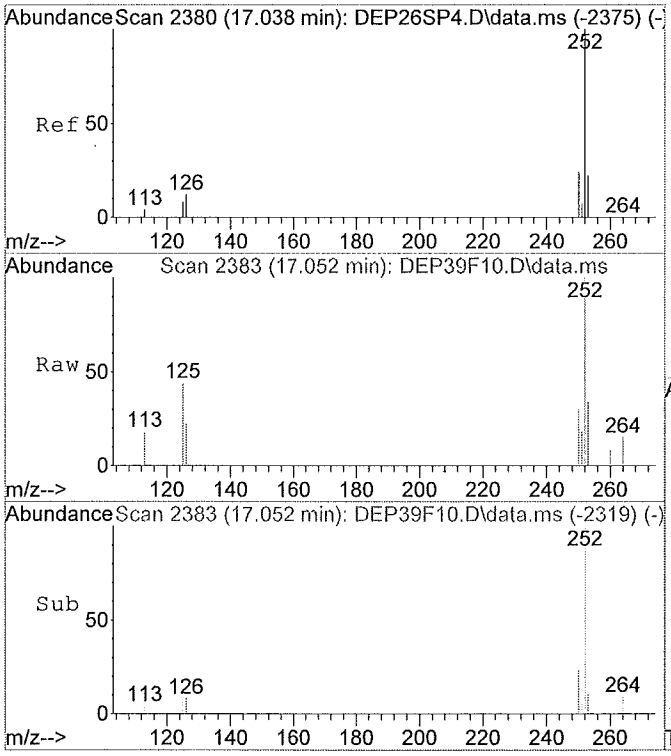


#20
Benzo(b)fluoranthene
Concen: 0.21 ug/ml
RT: 17.00 min Scan# 2373
Delta R.T. 0.02 min
Lab File: DEP39F10.D
Acq: 06/24/2015 10:31

Tgt Ion:252 Resp: 150557

Ion	Ratio	Lower	Upper
252	100		
253	22.7	15.3	28.3
125	12.4	0.0	0.0#
0	0.0	0.0	0.0

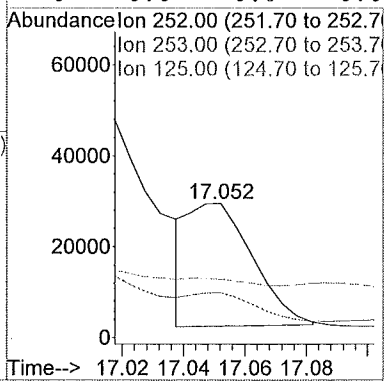


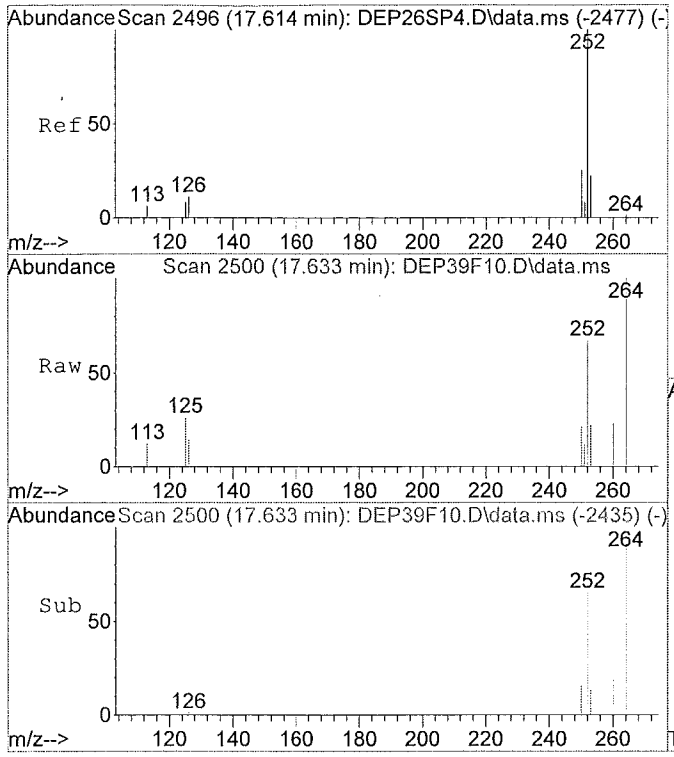


#21
Benzo(k)fluoranthene
Concen: 0.05 ug/ml m
RT: 17.05 min Scan# 2383
Delta R.T. 0.02 min
Lab File: DEP39F10.D
Acq: 06/24/2015 10:31

Tgt Ion:252 Resp: 39583

Ion	Ratio	Lower	Upper
252	100		
253	86.2	15.0	27.8#
125	46.8	0.0	0.0#
0	0.0	0.0	0.0

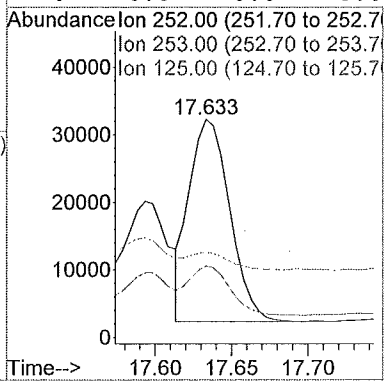


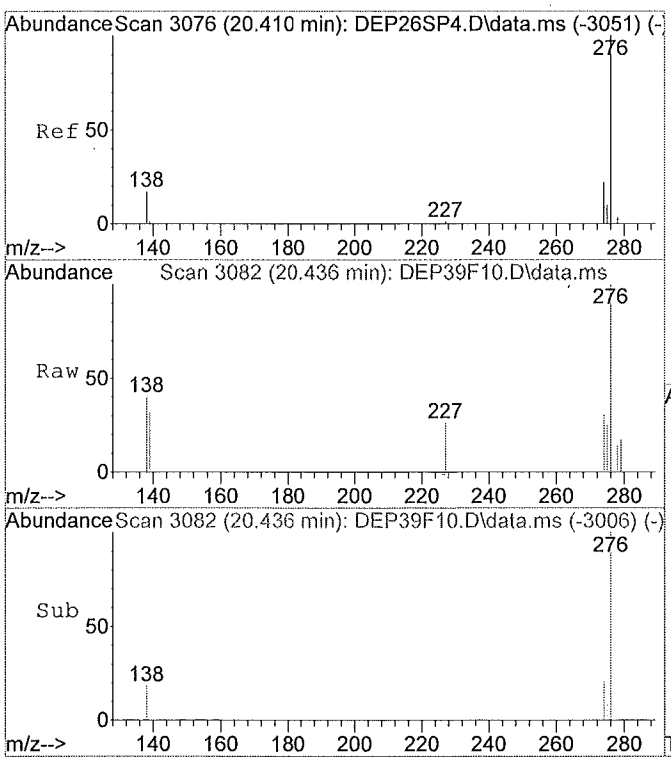


#22
Benzo(a)pyrene
Concen: 0.08 ug/ml
RT: 17.63 min Scan# 2500
Delta R.T. 0.02 min
Lab File: DEP39F10.D
Acq: 06/24/2015 10:31

Tgt Ion:252 Resp: 55606

Ion	Ratio	Lower	Upper
252	100		
253	25.6	15.0	27.8
125	8.3	0.0	0.0#
0	0.0	0.0	0.0

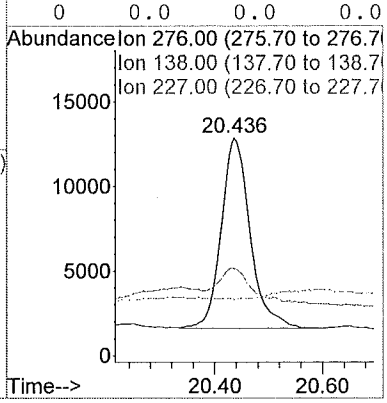


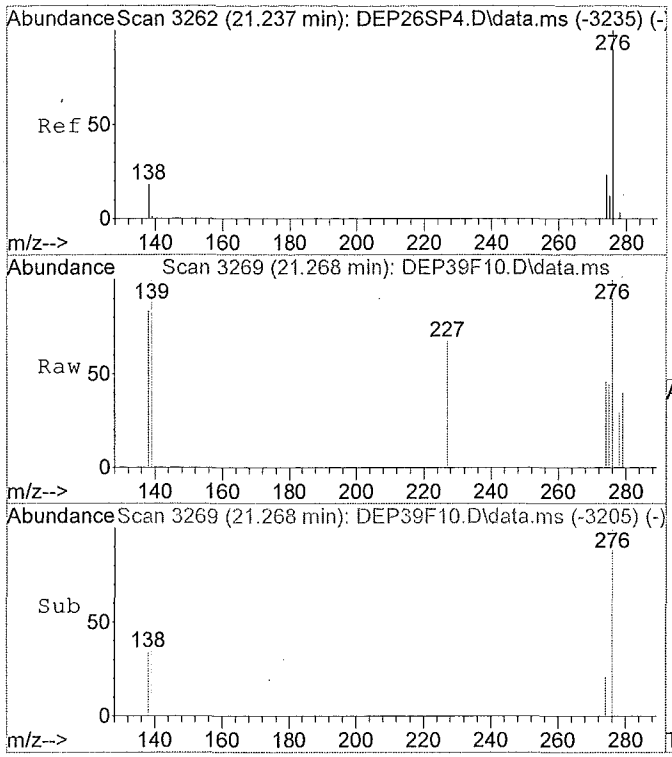


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.07 ug/ml
RT: 20.44 min Scan# 3082
Delta R.T. 0.04 min
Lab File: DEP39F10.D
Acq: 06/24/2015 10:31

Tgt Ion:276 Resp: 41631

Ion	Ratio	Lower	Upper
276	100		
138	14.5	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

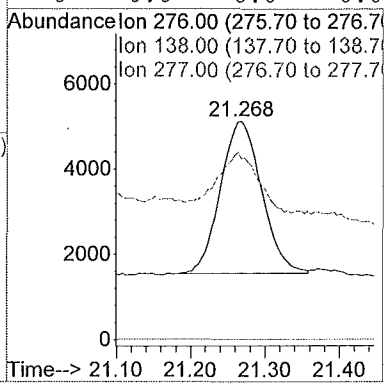




#25
Benzo(g,h,i)perylene
Concen: 0.02 ug/ml
RT: 21.27 min Scan# 3269
Delta R.T. 0.05 min
Lab File: DEP39F10.D
Acq: 06/24/2015 10:31

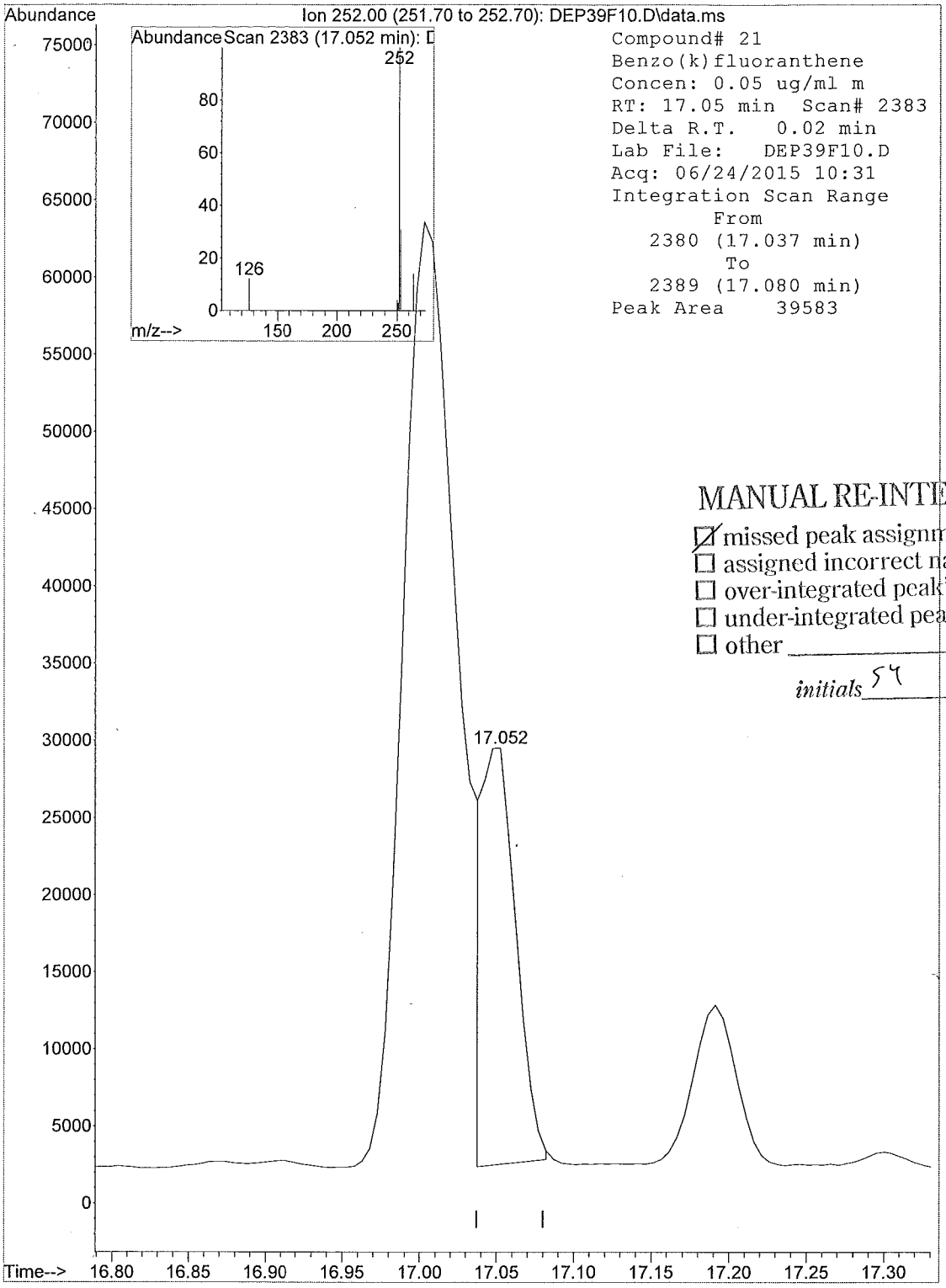
Tgt Ion:276 Resp: 13740

Ion	Ratio	Lower	Upper
276	100		
138	38.7	16.2	30.0#
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



01192

M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 6/25/15

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M91

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725011

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DEP40F11

Extraction: (Type) SONC

% Moisture: 8.4 Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 6.6 Dilution Factor: 1.0

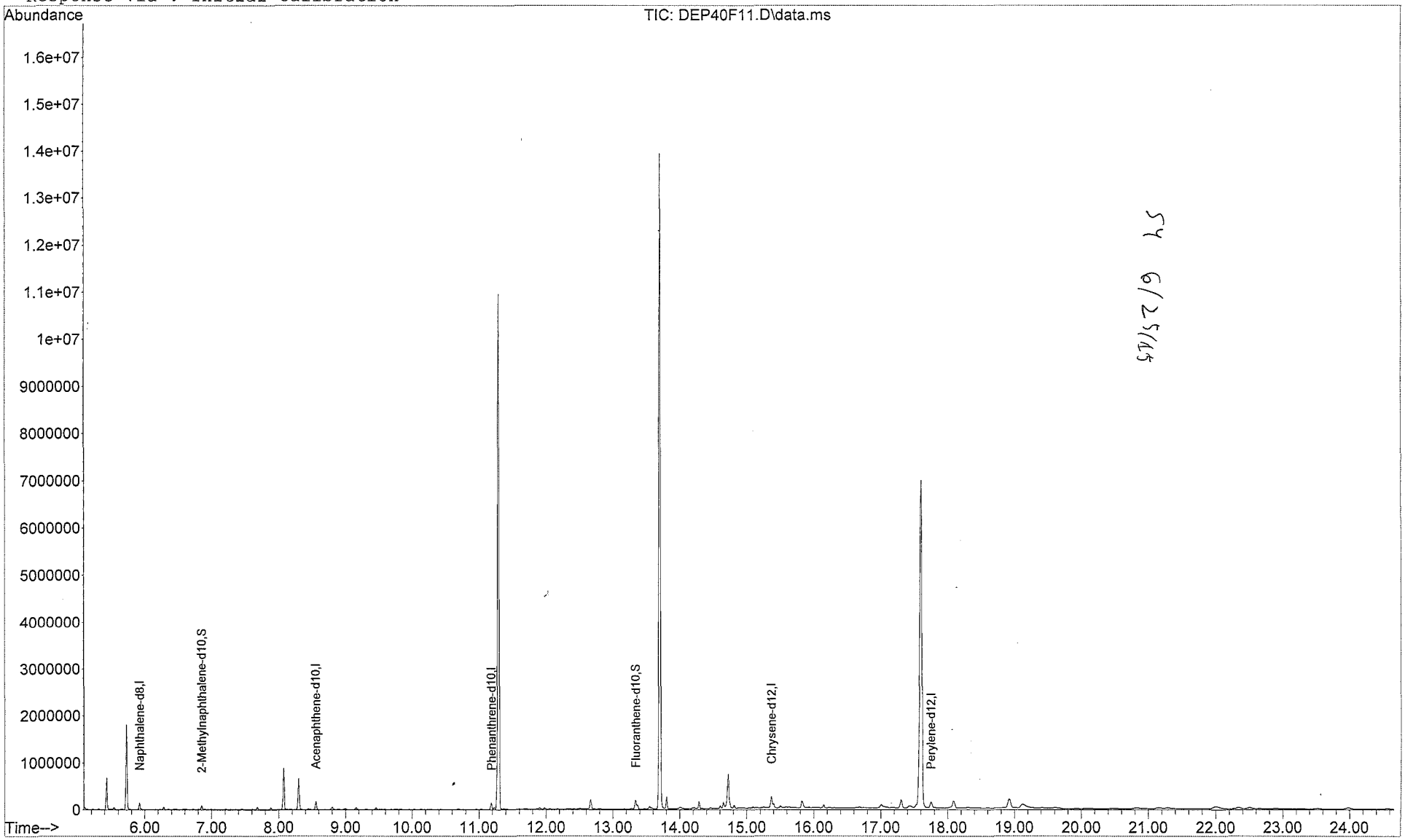
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.6	U
91-57-6	2-Methylnaphthalene	0.75	J
208-96-8	Acenaphthylene	0.75	J
83-32-9	Acenaphthene	3.6	U
86-73-7	Fluorene	3.6	U
87-86-5	Pentachlorophenol	7.2	U
85-01-8	Phenanthrene	2.4	J
120-12-7	Anthracene	1.6	J
206-44-0	Fluoranthene	3.2	J
129-00-0	Pyrene	4.9	
56-55-3	Benzo(a)anthracene	2.4	J
218-01-9	Chrysene	4.4	
205-99-2	Benzo(b)fluoranthene	4.5	
207-08-9	Benzo(k)fluoranthene	1.2	J
50-32-8	Benzo(a)pyrene	1.8	J
193-39-5	Indeno(1,2,3-cd)pyrene	1.8	J
53-70-3	Dibenzo(a,h)anthracene	3.6	U
191-24-2	Benzo(g,h,i)perylene	0.96	J

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP40F11.D Vial: 37
Acq On : 06/24/2015 11:01 Operator: DJC
Sample : 1515725011 F9M91 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 25 10:36:11 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



SY 6/25/15

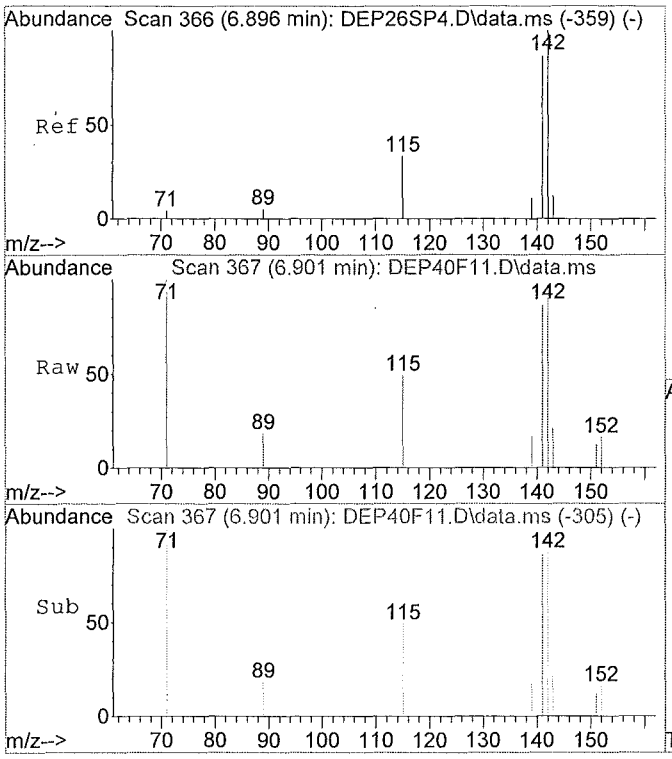
Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP40F11.D Vial: 37
Acq On : 06/24/2015 11:01 Operator: DJC
Sample : 1515725011 F9M91 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 10:36:11 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.92	136	148292	0.40 ug/ml	
5) Acenaphthene-d10	8.56	164	111376	0.40 ug/ml	
9) Phenanthrene-d10	11.18	188	191602	0.40 ug/ml	
15) Chrysene-d12	15.37	240	225825	0.40 ug/ml	
19) Perylene-d12	17.75	264	221020	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.85	152	92641	0.387ug/mL	
13) Fluoranthene-d10	13.34	212	211396	0.403ug/mL m SY 6/25/15	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	6.90	142	5233	0.021ug/ml	91
6) Acenaphthylene	8.32	152	10211	0.021ug/ml	60
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.23	178	36826	0.067ug/ml	91
12) Anthracene	11.32	178	24582	0.046ug/ml	88
14) Fluoranthene	13.37	202	56682	0.090ug/ml	20
16) Pyrene	13.72	202	95892	0.135ug/ml	1
17) Benzo(a)anthracene	15.35	228	39452	0.066ug/ml	87
18) Chrysene	15.40	228	78399	0.123ug/ml	87
20) Benzo(b)fluoranthene	17.01	252	87036	0.126ug/ml SY	99
21) Benzo(k)fluoranthene	17.05	252	23492	0.033ug/ml m	98
22) Benzo(a)pyrene	17.64	252	32468	0.049ug/ml 6/25/15	89
23) Indeno(1,2,3-c,d)pyrene	20.45	276	29208	0.051ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	21.30	276	17295	0.027ug/ml	1

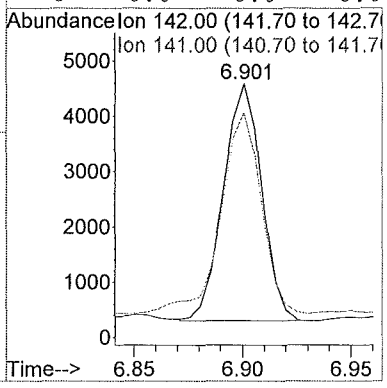
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

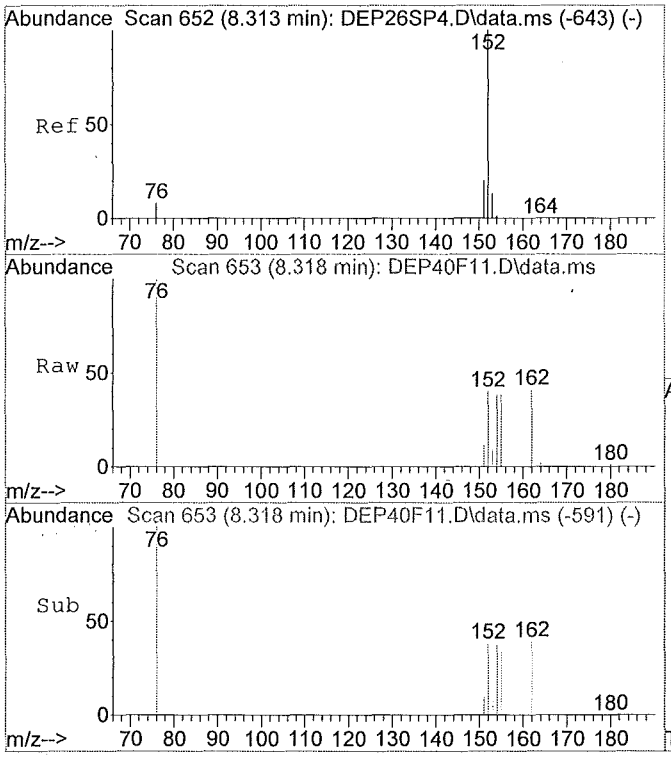


#4
2-Methylnaphthalene
Concen: 0.02 ug/ml
RT: 6.90 min Scan# 367
Delta R.T. 0.00 min
Lab File: DEP40F11.D
Acq: 06/24/2015 11:01

Tgt Ion:142 Resp: 5233

Ion	Ratio	Lower	Upper
142	100		
141	95.5	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

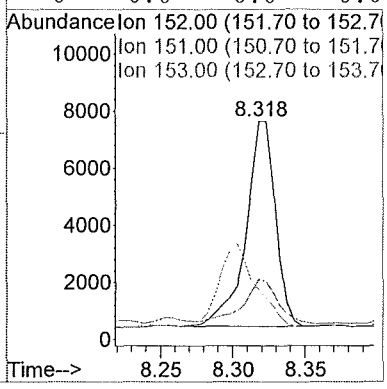


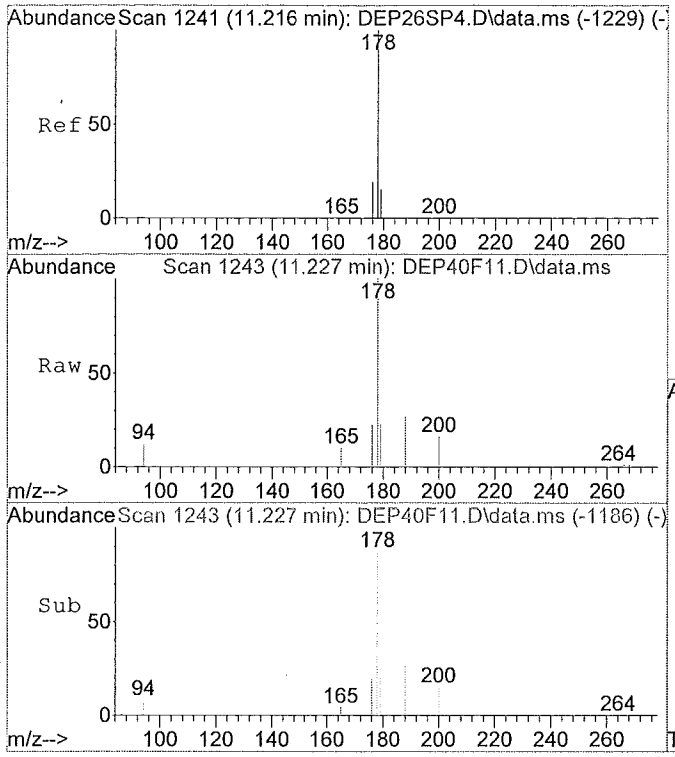


#6
Acenaphthylene
Concen: 0.02 ug/ml
RT: 8.32 min Scan# 653
Delta R.T. 0.01 min
Lab File: DEP40F11.D
Acq: 06/24/2015 11:01

Tgt Ion:152 Resp: 10211

Ion	Ratio	Lower	Upper
152	100		
151	25.5	15.5	28.7
153	51.2	8.8	16.4#
0	0.0	0.0	0.0

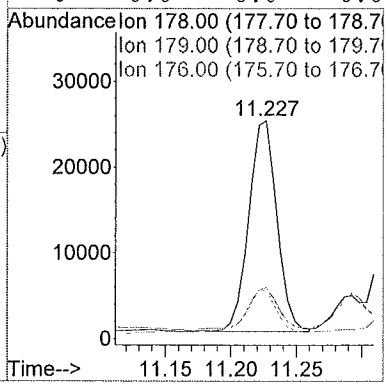


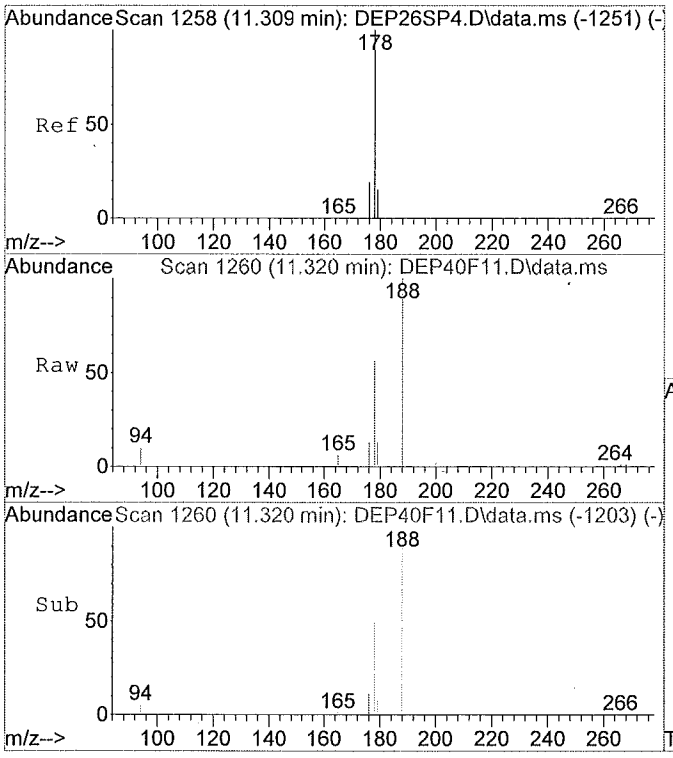


#11
Phenanthrene
Concen: 0.07 ug/ml
RT: 11.23 min Scan# 1243
Delta R.T. 0.01 min
Lab File: DEP40F11.D
Acq: 06/24/2015 11:01

Tgt Ion:178 Resp: 36826

Ion	Ratio	Lower	Upper
178	100		
179	20.8	11.1	20.5#
176	23.1	14.1	26.1
0	0.0	0.0	0.0

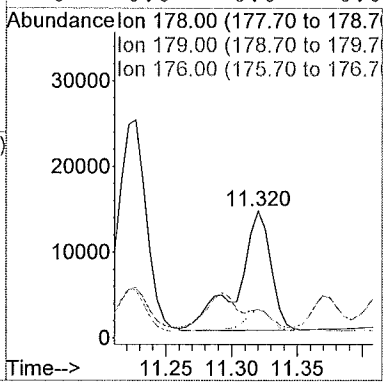


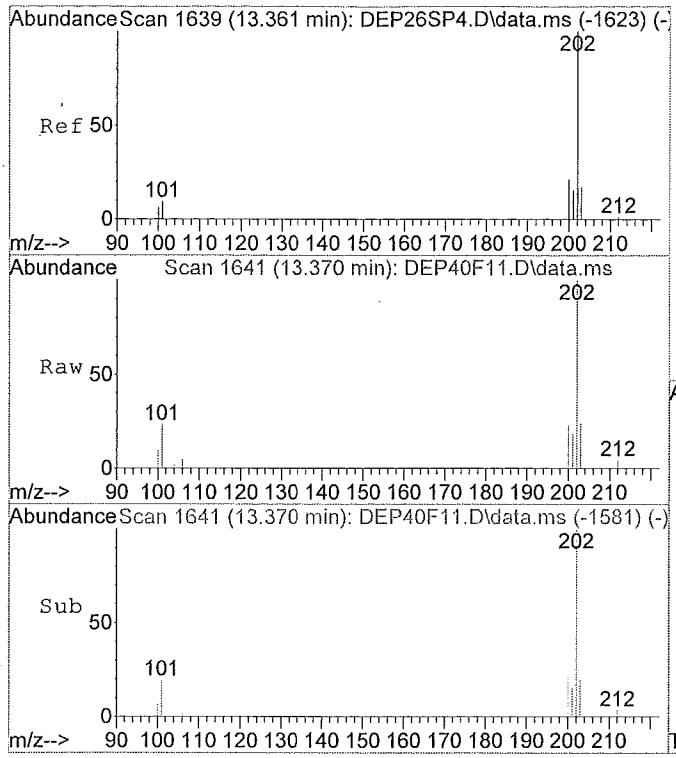


#12
Anthracene
Concen: 0.05 ug/ml
RT: 11.32 min Scan# 1260
Delta R.T. 0.01 min
Lab File: DEP40F11.D
Acq: 06/24/2015 11:01

Tgt Ion:178 Resp: 24582

Ion	Ratio	Lower	Upper
178	100		
179	24.9	11.6	21.6#
176	17.4	13.9	25.7
0	0.0	0.0	0.0

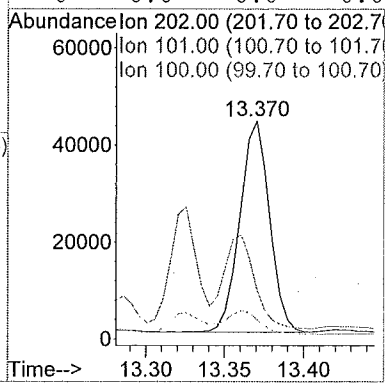


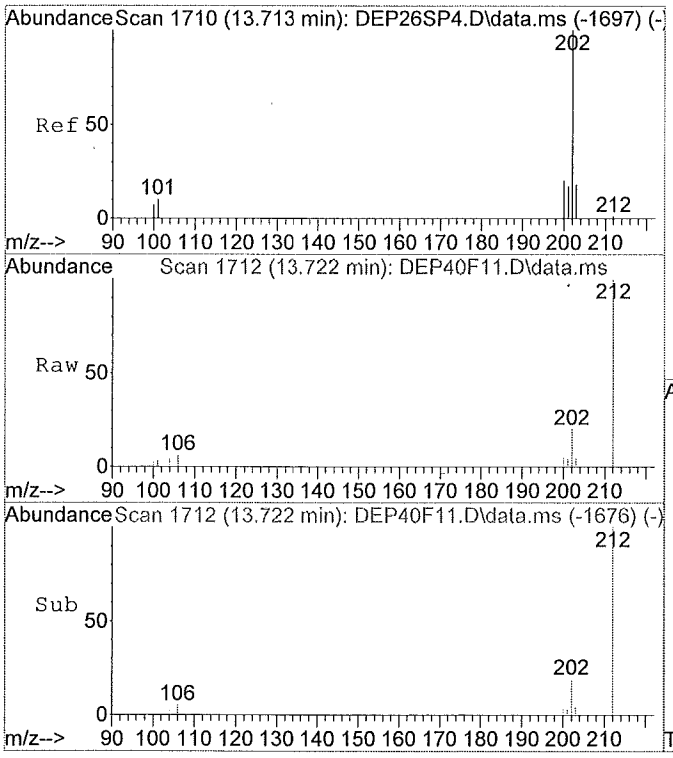


#14
Fluoranthene
Concen: 0.09 ug/ml
RT: 13.37 min Scan# 1641
Delta R.T. 0.01 min
Lab File: DEP40F11.D
Acq: 06/24/2015 11:01

Tgt Ion:202 Resp: 56682

Ion	Ratio	Lower	Upper
202	100		
101	45.6	9.4	17.6#
100	13.5	0.0	0.0#
0	0.0	0.0	0.0

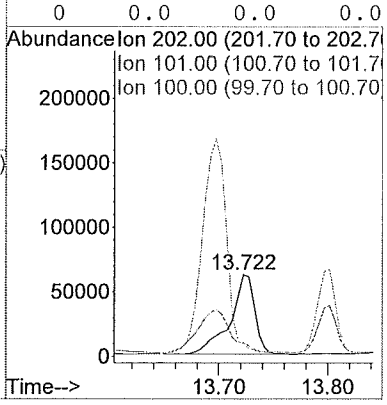


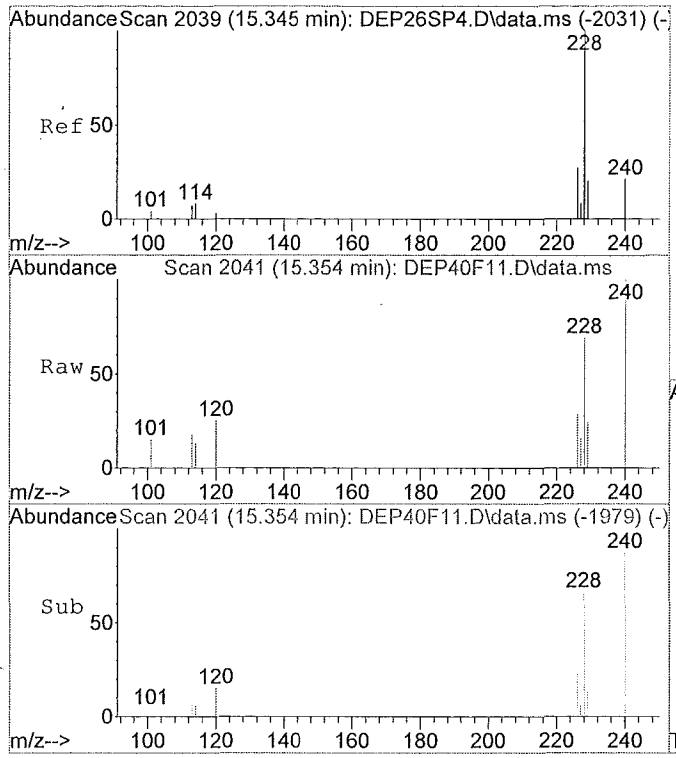


#16
Pyrene
Concen: 0.14 ug/ml
RT: 13.72 min Scan# 1712
Delta R.T. 0.01 min
Lab File: DEP40F11.D
Acq: 06/24/2015 11:01

Tgt Ion:202 Resp: 95892

Ion	Ratio	Lower	Upper
202	100		
101	73.3	10.6	19.6#
100	274.2	9.4	17.4#
0	0.0	0.0	0.0

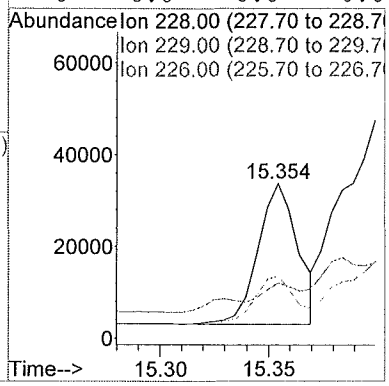


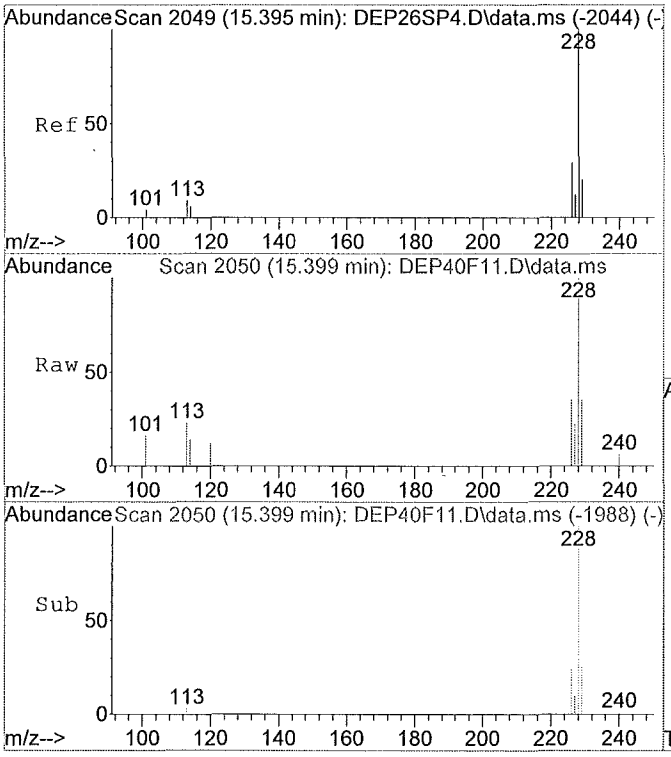


#17
Benzo(a)anthracene
Concen: 0.07 ug/ml
RT: 15.35 min Scan# 2041
Delta R.T. 0.01 min
Lab File: DEP40F11.D
Acq: 06/24/2015 11:01

Tgt Ion:228 Resp: 39452

Ion	Ratio	Lower	Upper
228	100		
229	19.7	14.5	26.9
226	37.3	18.5	34.3#
0	0.0	0.0	0.0

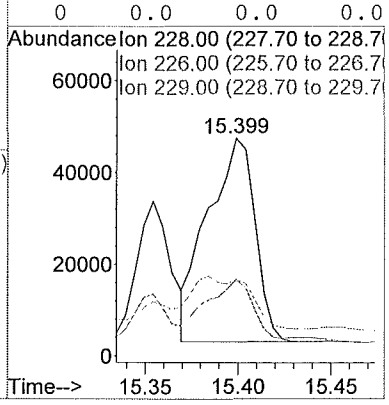


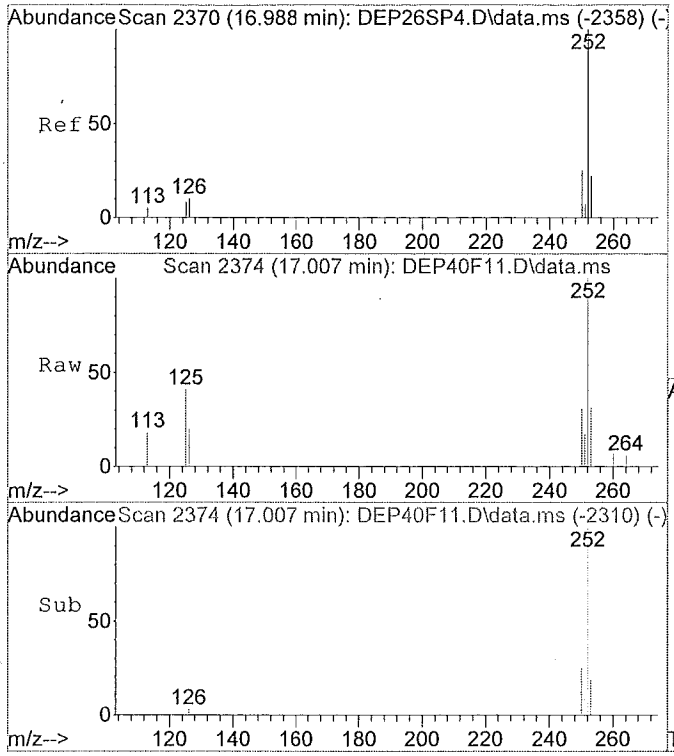


#18
Chrysene
Concen: 0.12 ug/ml
RT: 15.40 min Scan# 2050
Delta R.T. 0.01 min
Lab File: DEP40F11.D
Acq: 06/24/2015 11:01

Tgt Ion:228 Resp: 78399

Ion	Ratio	Lower	Upper
228	100		
226	28.1	19.7	36.7
229	34.5	14.5	26.9#
0	0.0	0.0	0.0

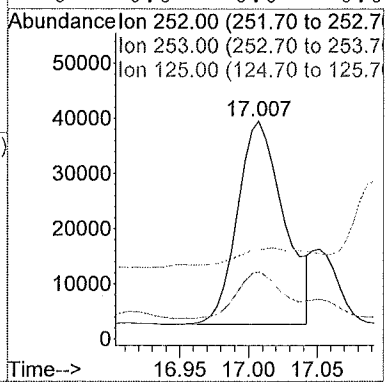


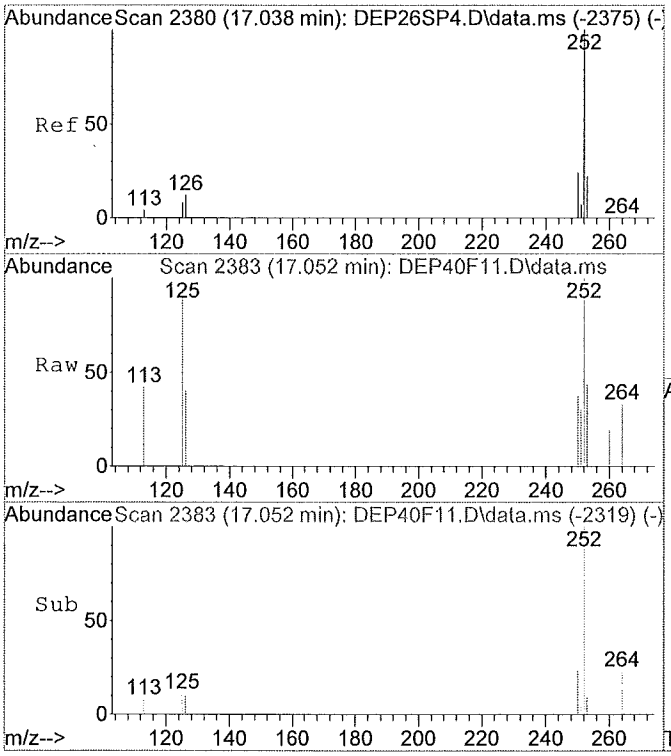


#20
Benzo(b)fluoranthene
Concen: 0.13 ug/ml
RT: 17.01 min Scan# 2374
Delta R.T. 0.02 min
Lab File: DEP40F11.D
Acq: 06/24/2015 11:01

Tgt Ion:252 Resp: 87036

Ion	Ratio	Lower	Upper
252	100		
253	22.2	15.3	28.3
125	13.4	0.0	0.0#
0	0.0	0.0	0.0

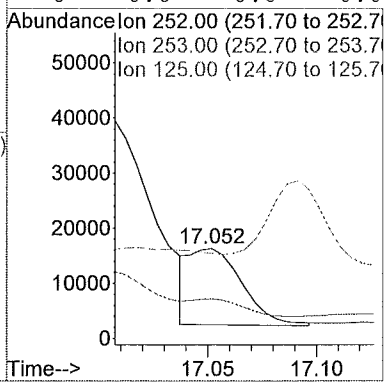


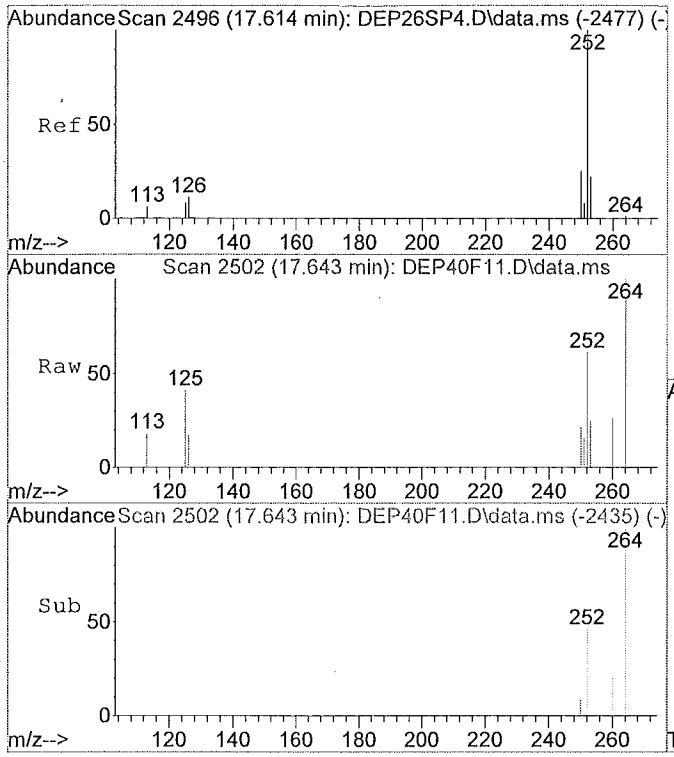


#21
Benzo(k)fluoranthene
Concen: 0.03 ug/ml m
RT: 17.05 min Scan# 2383
Delta R.T. 0.02 min
Lab File: DEP40F11.D
Acq: 06/24/2015 11:01

Tgt Ion:252 Resp: 23492

Ion	Ratio	Lower	Upper
252	100		
253	82.2	15.0	27.8#
125	46.6	0.0	0.0#
0	0.0	0.0	0.0

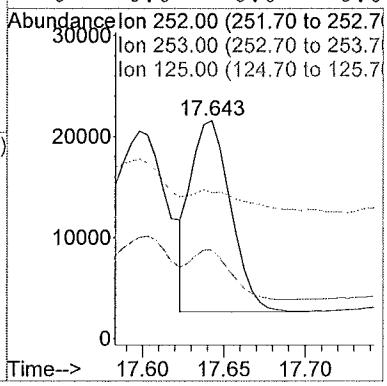


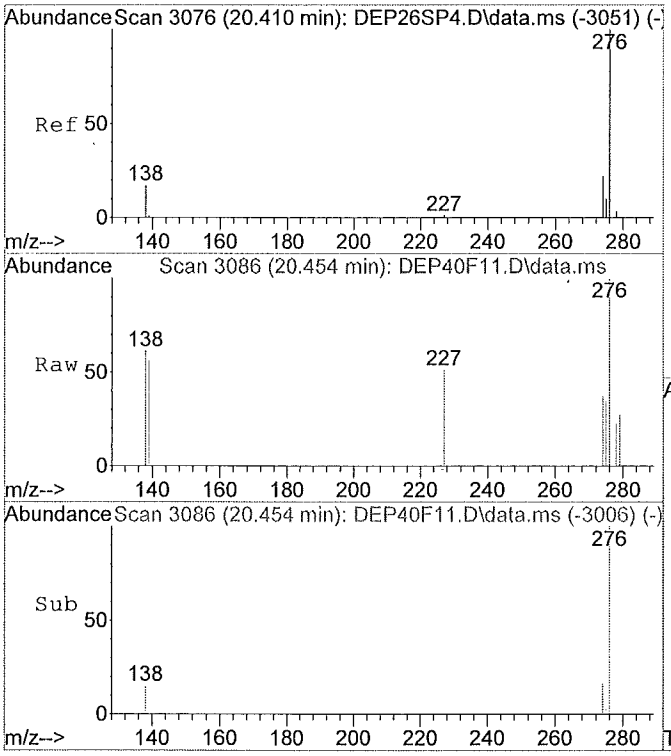


#22
Benzo(a)pyrene
Concen: 0.05 ug/ml
RT: 17.64 min Scan# 2502
Delta R.T. 0.03 min
Lab File: DEP40F11.D
Acq: 06/24/2015 11:01

Tgt Ion:252 Resp: 32468

Ion	Ratio	Lower	Upper
252	100		
253	26.6	15.0	27.8
125	15.4	0.0	0.0#
0	0.0	0.0	0.0

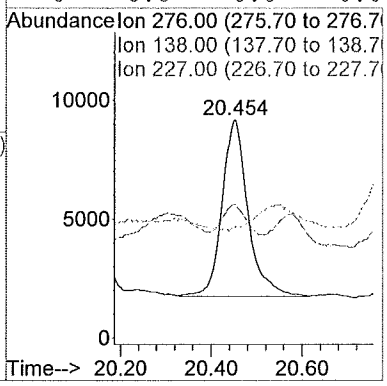


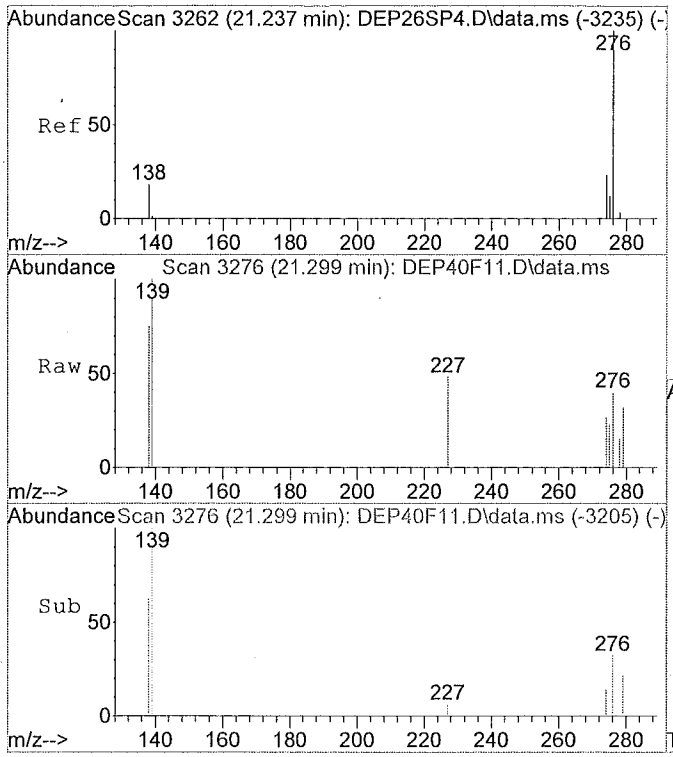


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.05 ug/ml
RT: 20.45 min Scan# 3086
Delta R.T. 0.06 min
Lab File: DEP40F11.D
Acq: 06/24/2015 11:01

Tgt Ion:276 Resp: 29208

Ion	Ratio	Lower	Upper
276	100		
138	14.5	0.0	0.0#
227	0.5	0.0	0.0#
0	0.0	0.0	0.0

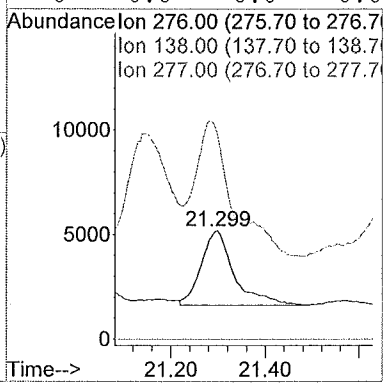




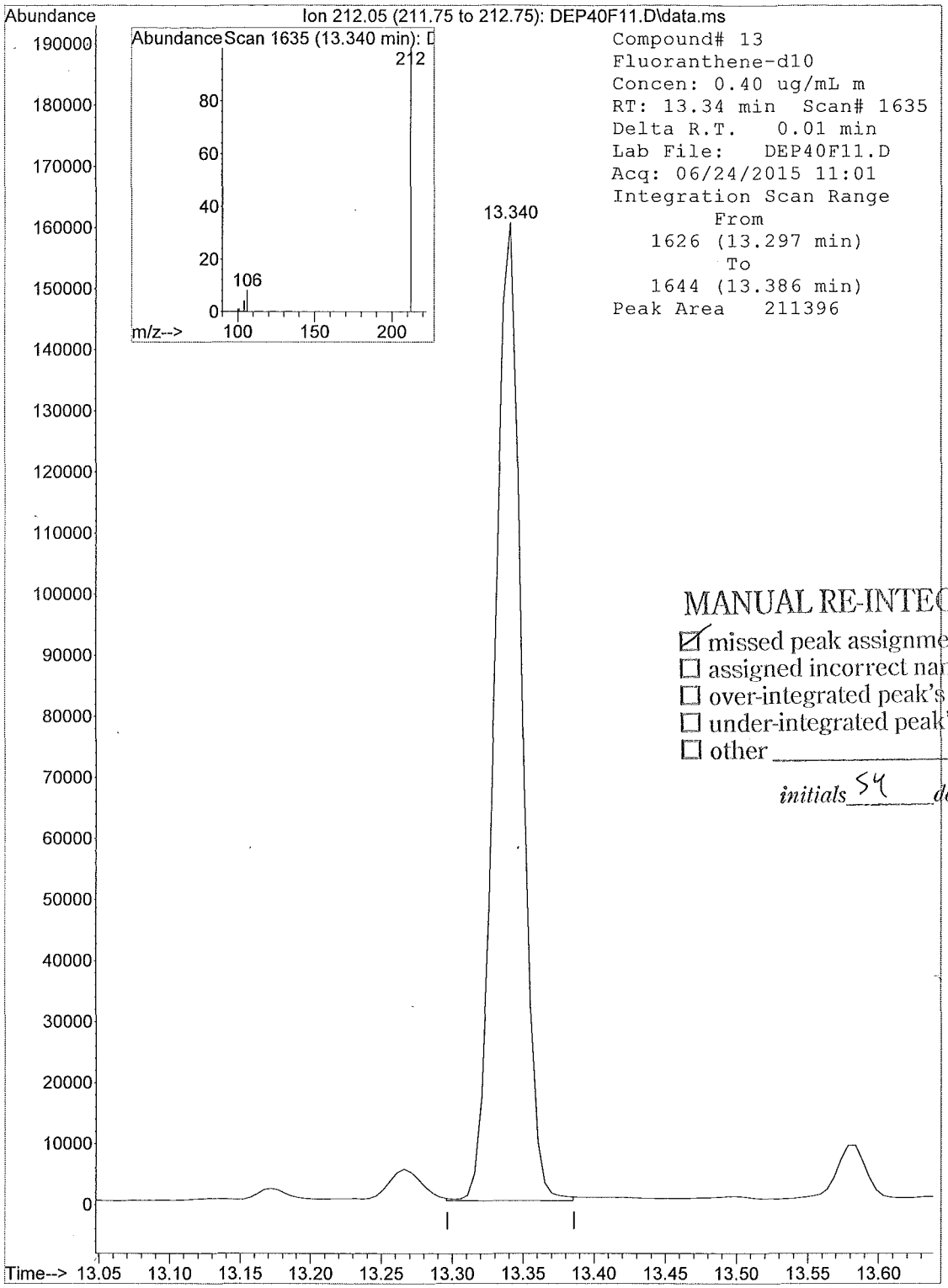
#25
Benzo(g,h,i)perylene
Concen: 0.03 ug/ml
RT: 21.30 min Scan# 3276
Delta R.T. 0.08 min
Lab File: DEP40F11.D
Acq: 06/24/2015 11:01

Tgt Ion:276 Resp: 17295

Ion	Ratio	Lower	Upper
276	100		
138	112.9	16.2	30.0#
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



M A N U A L I N T E G R A T I O N FOR Fluoranthene-d10

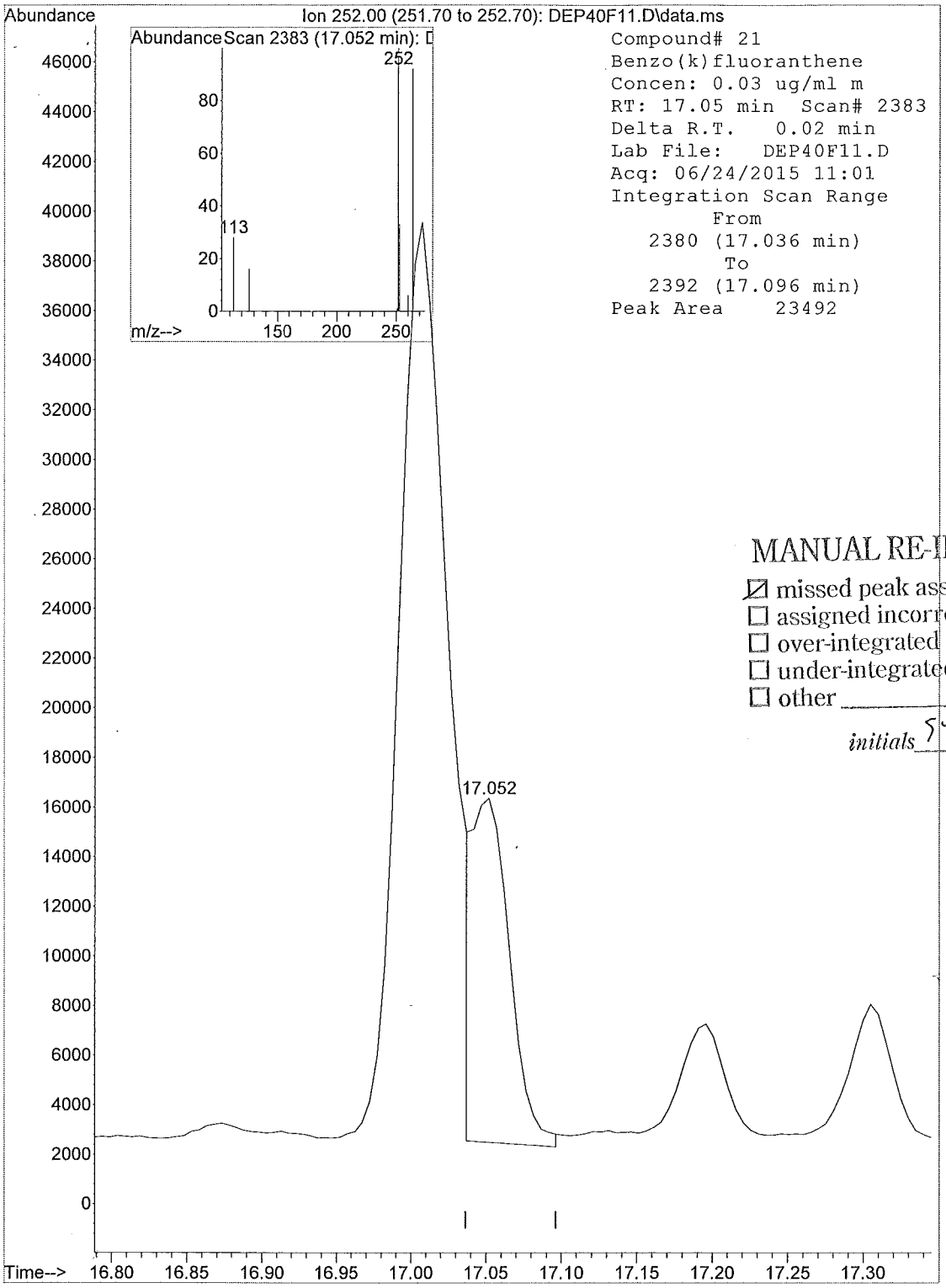


MANUAL RE-INTEGRATION

- ☑ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 6/25/15

M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☑ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 6/25/15

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M92

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725014

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DEP41F14

Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

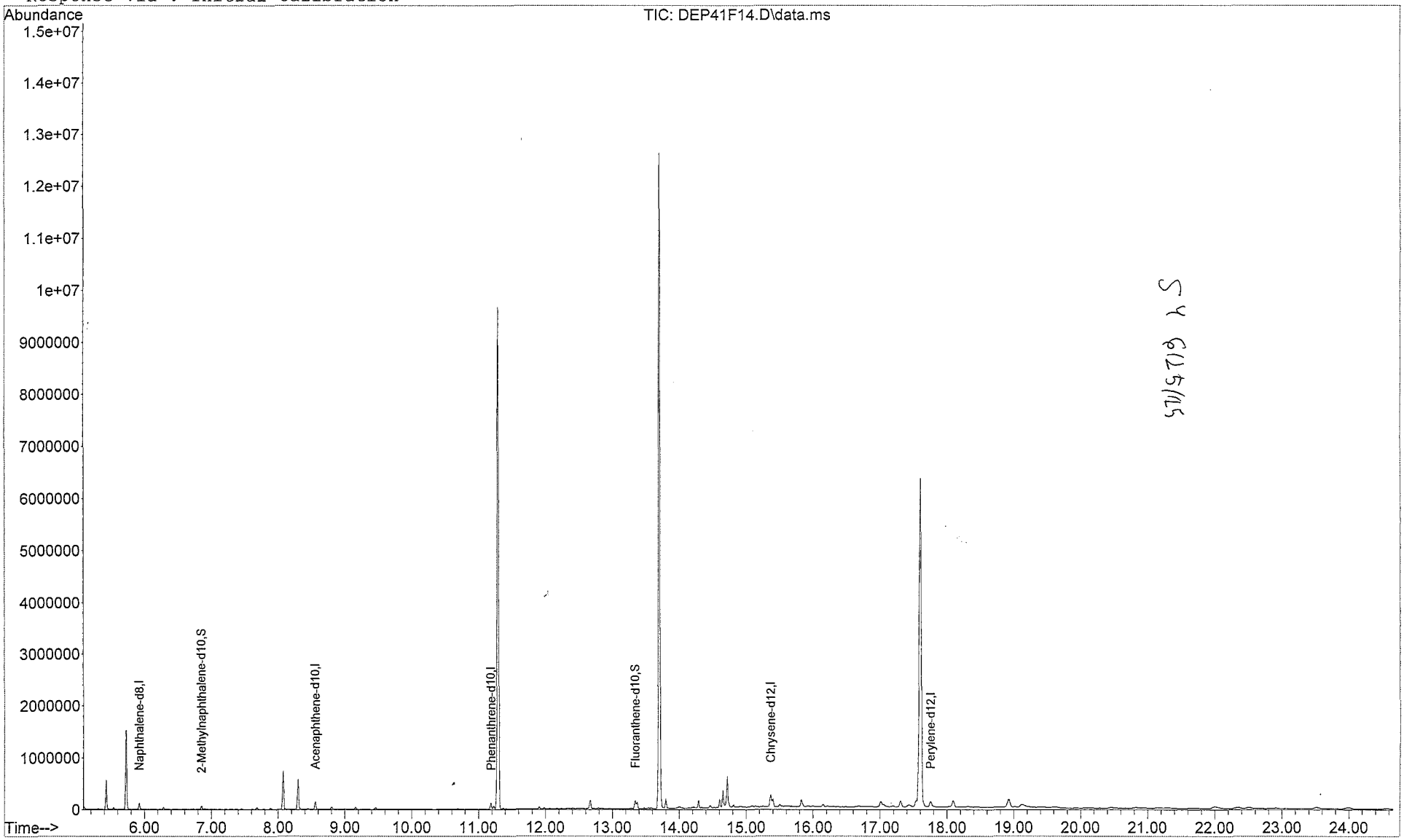
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	0.80	J
91-57-6	2-Methylnaphthalene	1.1	J
208-96-8	Acenaphthylene	1.4	J
83-32-9	Acenaphthene	3.7	U
86-73-7	Fluorene	3.7	U
87-86-5	Pentachlorophenol	7.5	U
85-01-8	Phenanthrene	4.6	
120-12-7	Anthracene	2.3	J
206-44-0	Fluoranthene	6.8	
129-00-0	Pyrene	9.2	
56-55-3	Benzo(a)anthracene	5.3	
218-01-9	Chrysene	9.1	
205-99-2	Benzo(b)fluoranthene	8.7	
207-08-9	Benzo(k)fluoranthene	3.7	U
50-32-8	Benzo(a)pyrene	4.2	
193-39-5	Indeno(1,2,3-cd)pyrene	3.5	J
53-70-3	Dibenzo(a,h)anthracene	1.0	J
191-24-2	Benzo(g,h,i)perylene	1.4	J

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP41F14.D Vial: 38
Acq On : 06/24/2015 11:32 Operator: DJC
Sample : 1515725014 F9M92 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 24 11:57:00 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

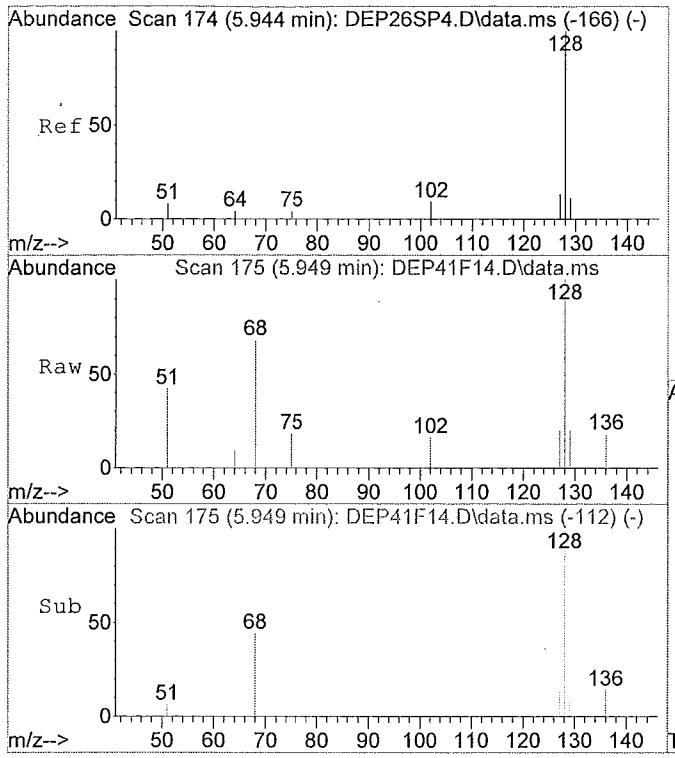
Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP41F14.D Vial: 38
Acq On : 06/24/2015 11:32 Operator: DJC
Sample : 1515725014 F9M92 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 24 11:57:00 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.92	136	135883	0.40 ug/ml	
5) Acenaphthene-d10	8.56	164	98027	0.40 ug/ml	
9) Phenanthrene-d10	11.18	188	161957	0.40 ug/ml	
15) Chrysene-d12	15.37	240	192610	0.40 ug/ml	
19) Perylene-d12	17.75	264	185936	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.85	152	78976	0.360ug/mL	
13) Fluoranthene-d10	13.34	212	177670	0.401ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.95	128	7505	0.021ug/ml	81
4) 2-Methylnaphthalene	6.90	142	6495	0.028ug/ml	98
6) Acenaphthylene	8.32	152	15731	0.037ug/ml	79
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.23	178	56541	0.121ug/ml	98
12) Anthracene	11.32	178	28199	0.062ug/ml	91
14) Fluoranthene	13.37	202	96547	0.182ug/ml	72
16) Pyrene	13.72	202	148321	0.245ug/ml	1
17) Benzo(a)anthracene	15.35	228	72885	0.142ug/ml	85
18) Chrysene	15.40	228	131604	0.242ug/ml	81
20) Benzo(b)fluoranthene	17.01	252	133954	0.231ug/ml	99
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	17.64	252	62103	0.112ug/ml	91
23) Indeno(1,2,3-c,d)pyrene	20.45	276	44760	0.092ug/ml	100
24) Dibenzo(a,h)anthracene	20.52	278	14407	0.027ug/ml	81
25) Benzo(g,h,i)perylene	21.30	276	19668	0.036ug/ml	33

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

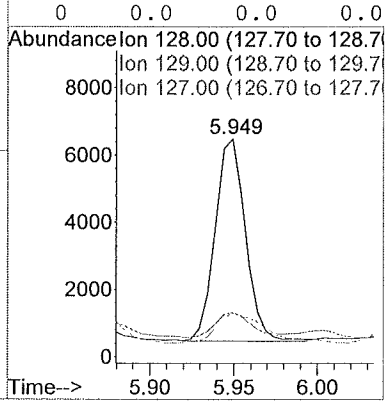
01209

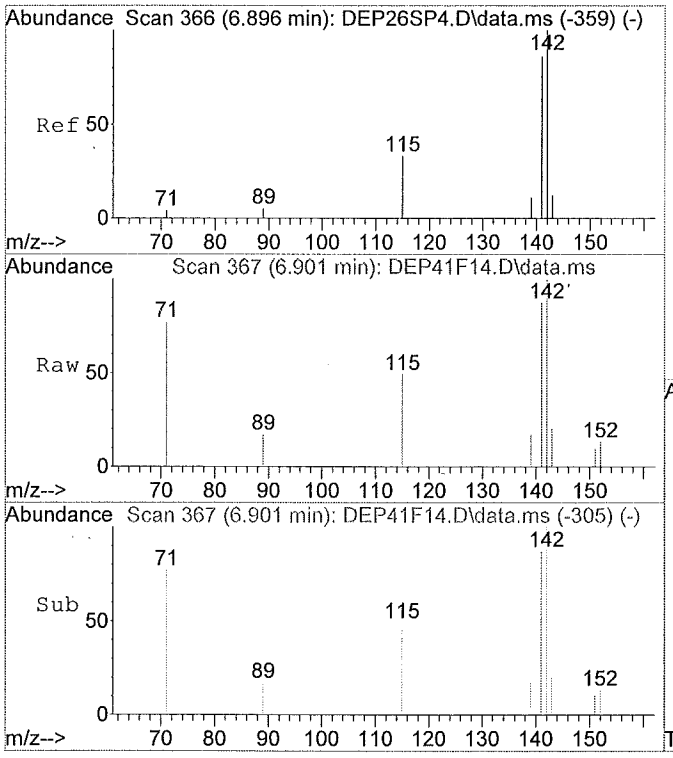


#2
Naphthalene
Concen: 0.02 ug/ml
RT: 5.95 min Scan# 175
Delta R.T. 0.01 min
Lab File: DEP41F14.D
Acq: 06/24/2015 11:32

Tgt Ion:128 Resp: 7505

Ion	Ratio	Lower	Upper
128	100		
129	14.4	0.0	0.0#
127	24.0	11.1	20.5#
0	0.0	0.0	0.0

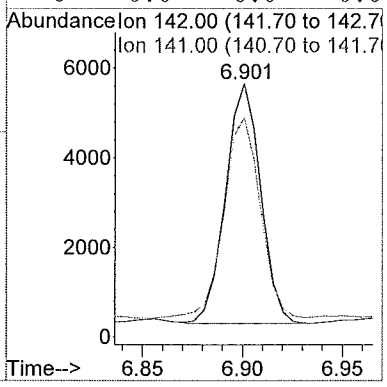




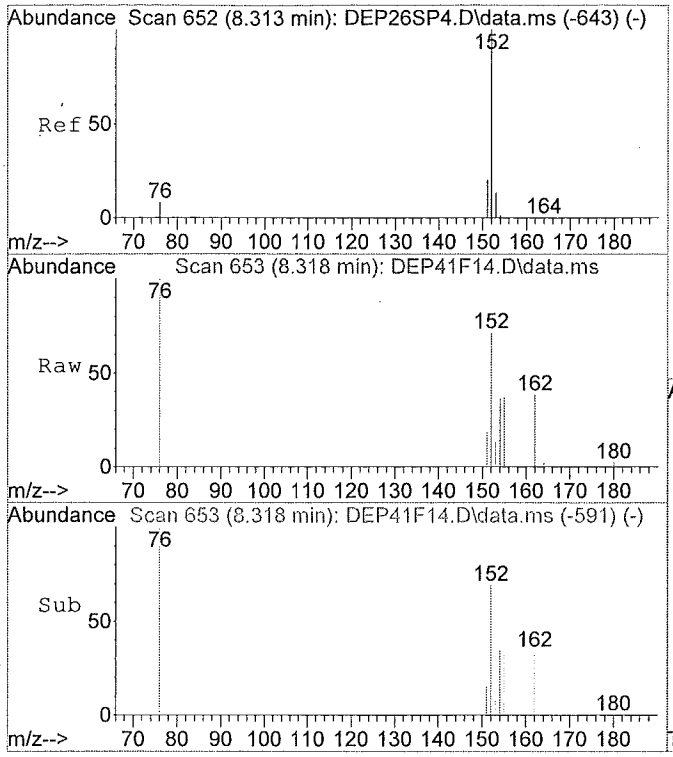
#4
2-Methylnaphthalene
Concen: 0.03 ug/ml
RT: 6.90 min Scan# 367
Delta R.T. 0.00 min
Lab File: DEP41F14.D
Acq: 06/24/2015 11:32

Tgt Ion:142 Resp: 6495

Ion	Ratio	Lower	Upper
142	100		
141	89.2	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0



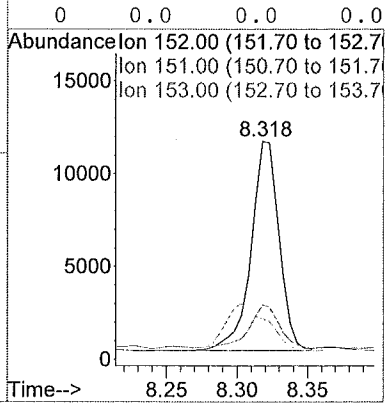
01299

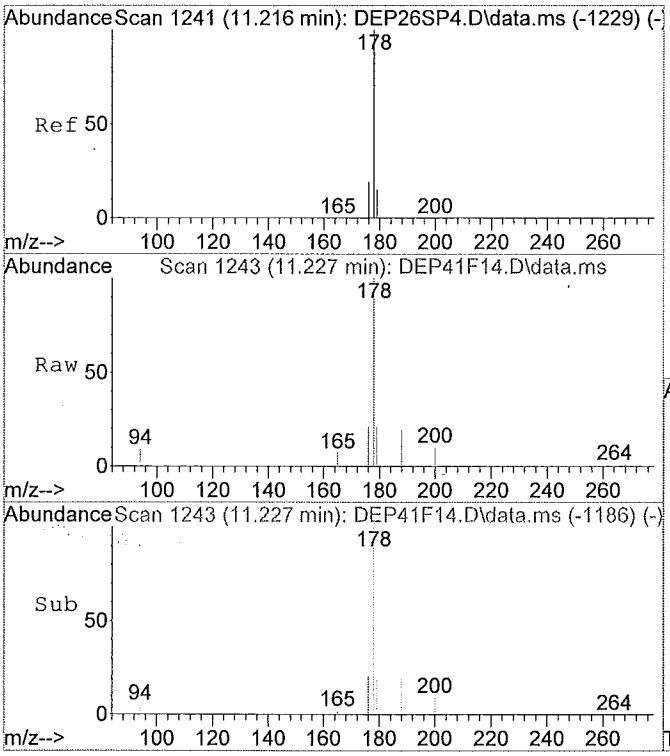


#6
Acenaphthylene
Concen: 0.04 ug/ml
RT: 8.32 min Scan# 653
Delta R.T. 0.01 min
Lab File: DEP41F14.D
Acq: 06/24/2015 11:32

Tgt Ion:152 Resp: 15731

Ion	Ratio	Lower	Upper
152	100		
151	22.9	15.5	28.7
153	33.9	8.8	16.4#
0	0.0	0.0	0.0

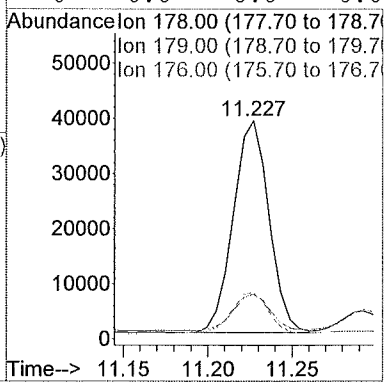


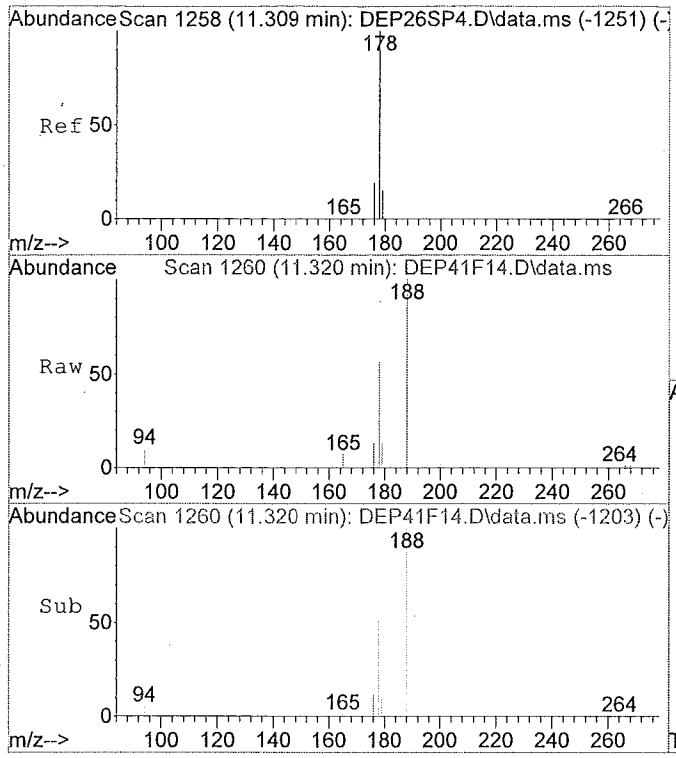


#11
Phenanthrene
Concen: 0.12 ug/ml
RT: 11.23 min Scan# 1243
Delta R.T. 0.01 min
Lab File: DEP41F14.D
Acq: 06/24/2015 11:32

Tgt Ion:178 Resp: 56541

Ion	Ratio	Lower	Upper
178	100		
179	17.6	11.1	20.5
176	20.4	14.1	26.1
0	0.0	0.0	0.0

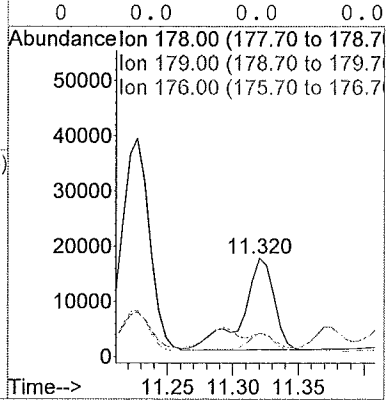


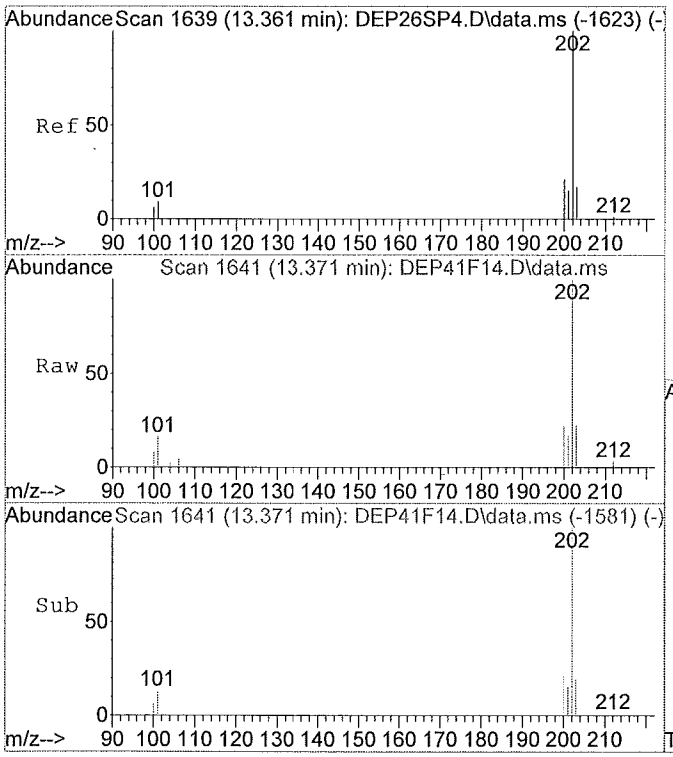


#12
Anthracene
Concen: 0.06 ug/ml
RT: 11.32 min Scan# 1260
Delta R.T. 0.01 min
Lab File: DEP41F14.D
Acq: 06/24/2015 11:32

Tgt Ion:178 Resp: 28199

Ion	Ratio	Lower	Upper
178	100		
179	11.0	11.6	21.6#
176	16.9	13.9	25.7
0	0.0	0.0	0.0

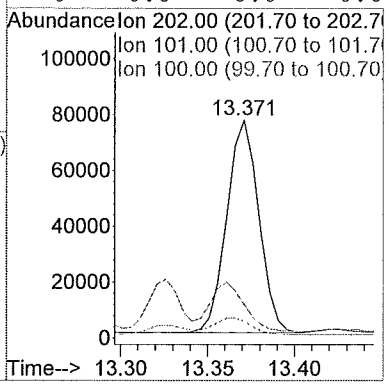


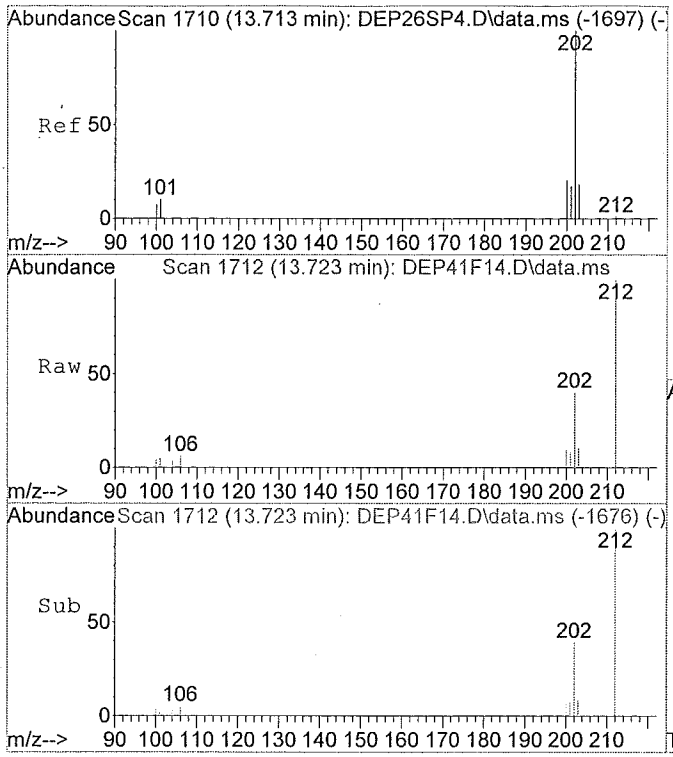


#14
Fluoranthene
Concen: 0.18 ug/ml
RT: 13.37 min Scan# 1641
Delta R.T. 0.01 min
Lab File: DEP41F14.D
Acq: 06/24/2015 11:32

Tgt Ion:202 Resp: 96547

Ion	Ratio	Lower	Upper
202	100		
101	24.9	9.4	17.6#
100	9.7	0.0	0.0#
0	0.0	0.0	0.0

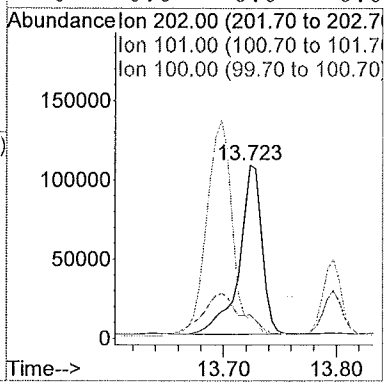


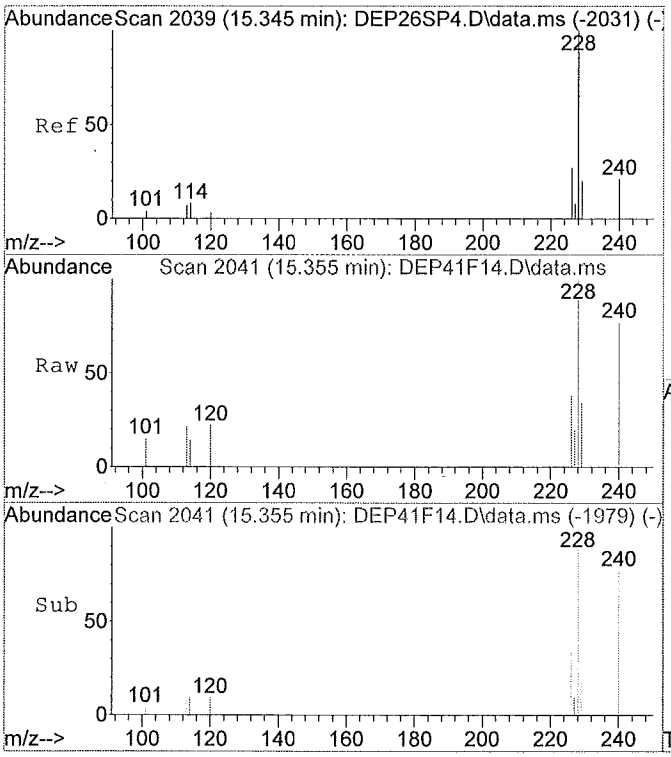


#16
Pyrene
Concen: 0.25 ug/ml
RT: 13.72 min Scan# 1712
Delta R.T. 0.01 min
Lab File: DEP41F14.D
Acq: 06/24/2015 11:32

Tgt Ion:202 Resp: 148321

Ion	Ratio	Lower	Upper
202	100		
101	41.2	10.6	19.6#
100	147.4	9.4	17.4#
0	0.0	0.0	0.0

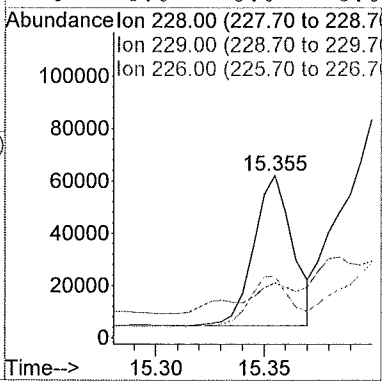




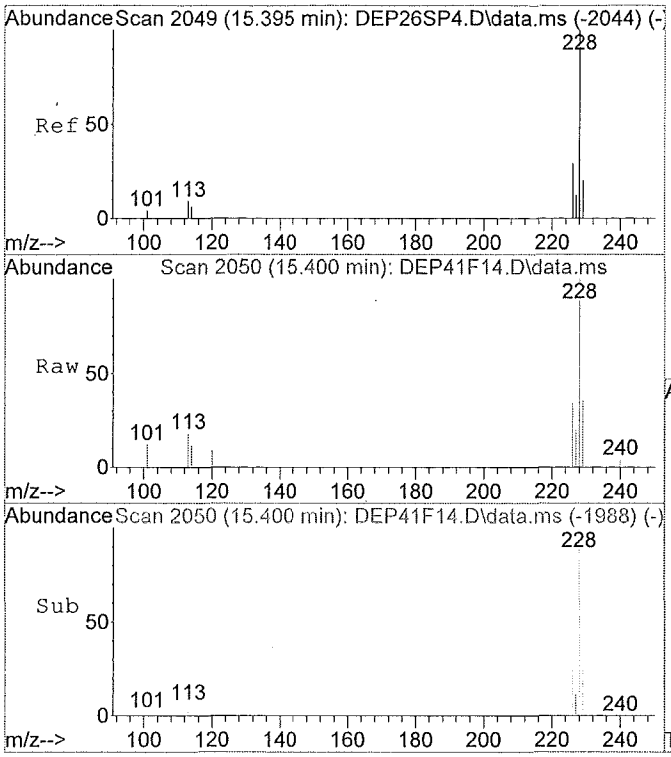
#17
Benzo(a)anthracene
Concen: 0.14 ug/ml
RT: 15.35 min Scan# 2041
Delta R.T. 0.01 min
Lab File: DEP41F14.D
Acq: 06/24/2015 11:32

Tgt Ion:228 Resp: 72885

Ion	Ratio	Lower	Upper
228	100		
229	17.1	14.5	26.9
226	37.0	18.5	34.3#
0	0.0	0.0	0.0



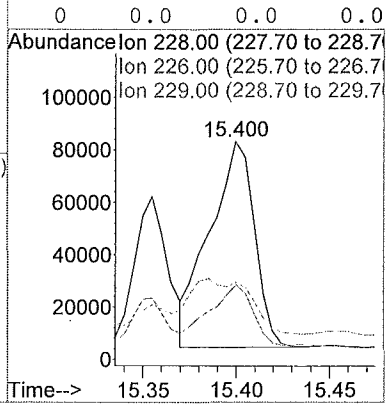
: 91212

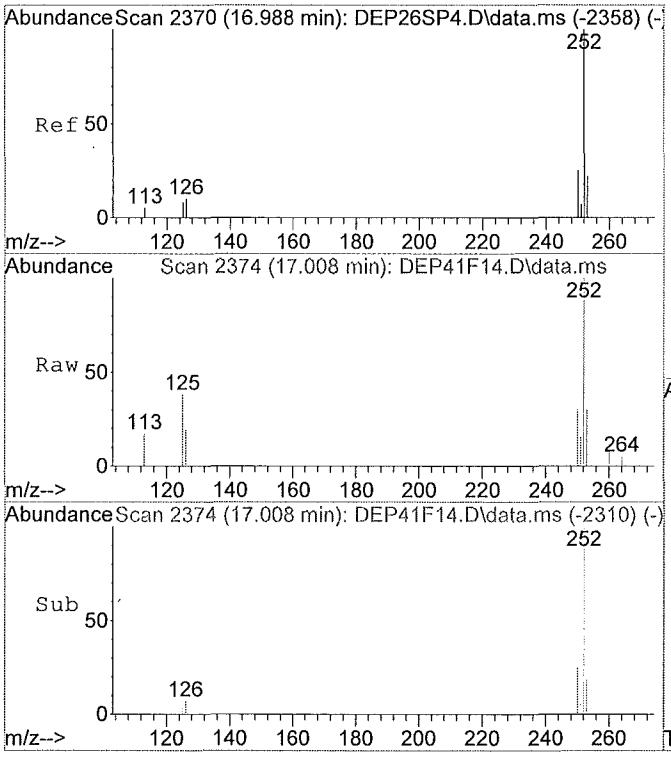


#18
Chrysene
Concen: 0.24 ug/ml
RT: 15.40 min Scan# 2050
Delta R.T. 0.01 min
Lab File: DEP41F14.D
Acq: 06/24/2015 11:32

Tgt Ion:228 Resp: 131604

Ion	Ratio	Lower	Upper
228	100		
226	32.3	19.7	36.7
229	36.7	14.5	26.9#
0	0.0	0.0	0.0

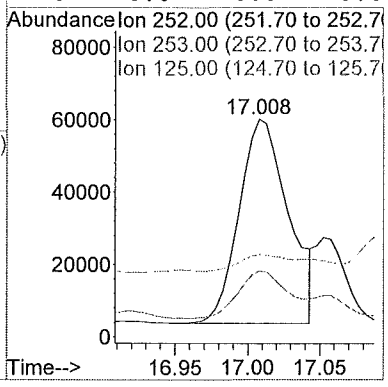




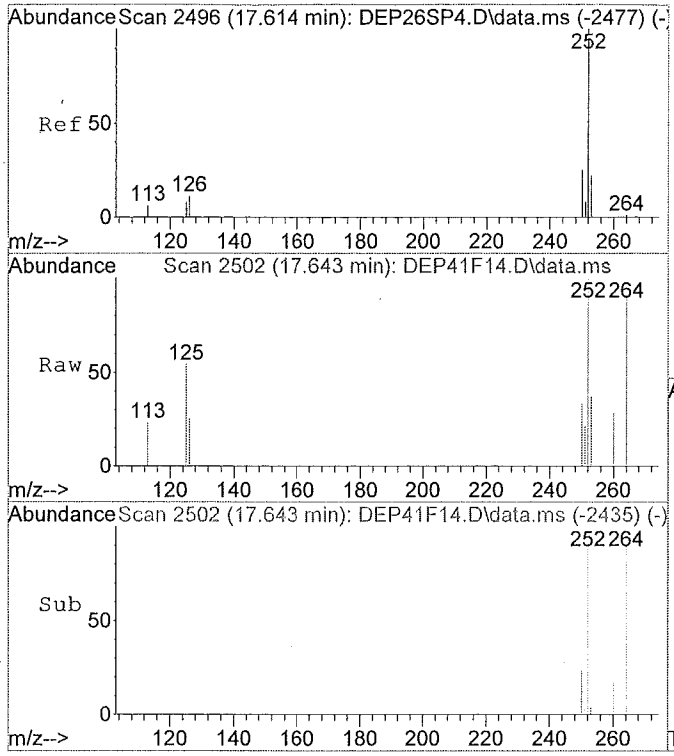
#20
Benzo(b)fluoranthene
Concen: 0.23 ug/ml
RT: 17.01 min Scan# 2374
Delta R.T. 0.02 min
Lab File: DEP41F14.D
Acq: 06/24/2015 11:32

Tgt Ion:252 Resp: 133954

Ion	Ratio	Lower	Upper
252	100		
253	22.2	15.3	28.3
125	7.7	0.0	0.0#
0	0.0	0.0	0.0

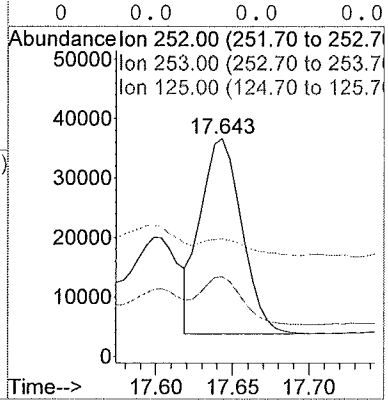


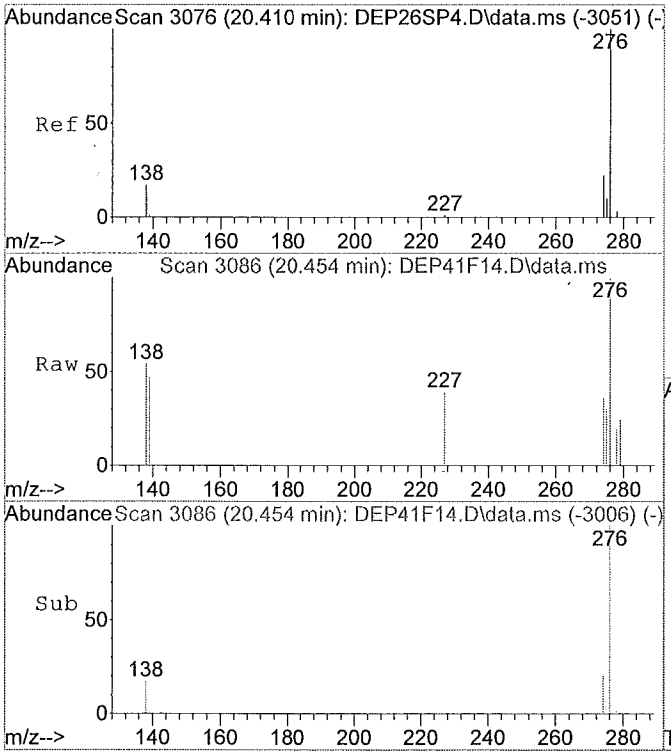
:01219



#22
Benzo(a)pyrene
Concen: 0.11 ug/ml
RT: 17.64 min Scan# 2502
Delta R.T. 0.03 min
Lab File: DEP41F14.D
Acq: 06/24/2015 11:32

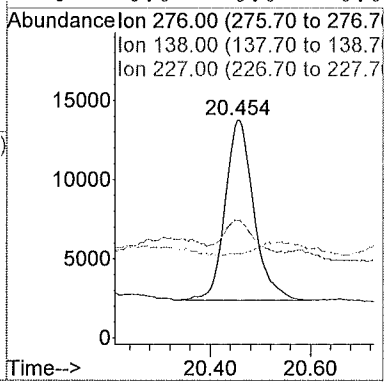
Tgt Ion:252	Resp:	62103	
Ion	Ratio	Lower	Upper
252	100		
253	25.8	15.0	27.8
125	8.6	0.0	0.0#
0	0.0	0.0	0.0

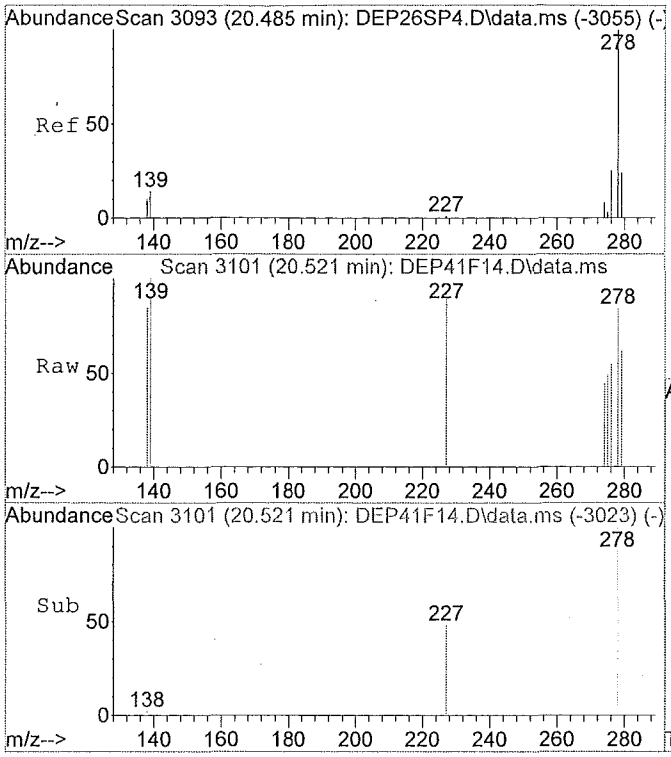




#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.09 ug/ml
RT: 20.45 min Scan# 3086
Delta R.T. 0.06 min
Lab File: DEP41F14.D
Acq: 06/24/2015 11:32

Tgt Ion:276	Resp:	44760	
Ion	Ratio	Lower	Upper
276	100		
138	16.8	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

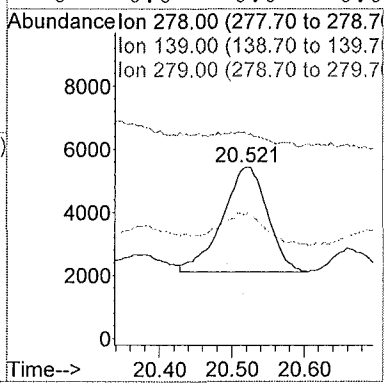


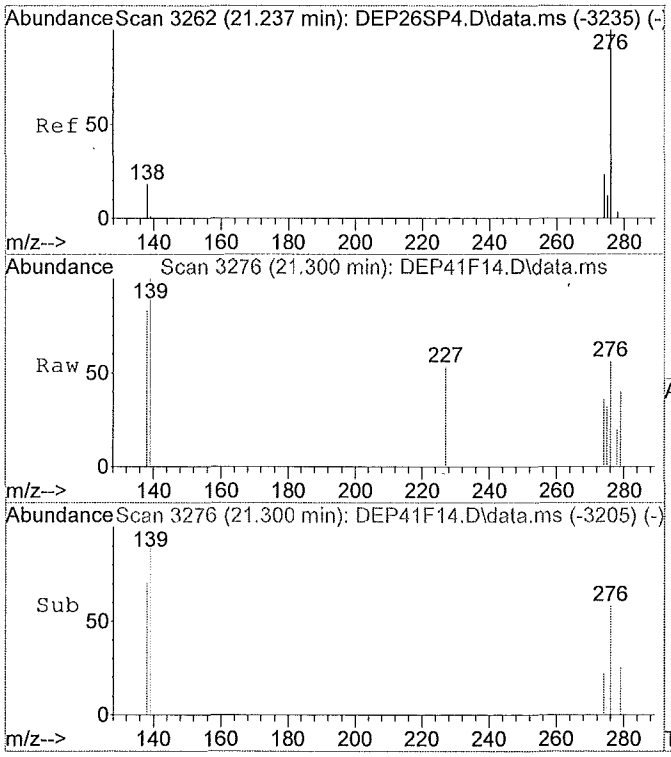


#24
Dibenzo(a,h)anthracene
Concen: 0.03 ug/ml
RT: 20.52 min Scan# 3101
Delta R.T. 0.05 min
Lab File: DEP41F14.D
Acq: 06/24/2015 11:32

Tgt Ion:278 Resp: 14407

Ion	Ratio	Lower	Upper
278	100		
139	0.0	0.0	0.0
279	31.6	15.8	29.3#
0	0.0	0.0	0.0

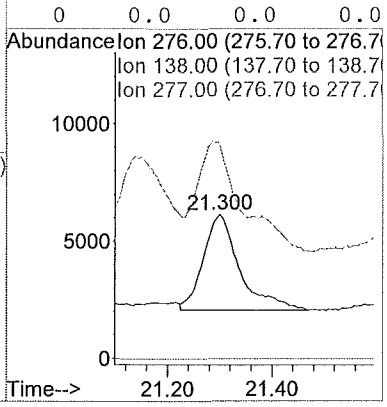




#25
Benzo(g,h,i)perylene
Concen: 0.04 ug/ml
RT: 21.30 min Scan# 3276
Delta R.T. 0.08 min
Lab File: DEP41F14.D
Acq: 06/24/2015 11:32

Tgt Ion:276 Resp: 19668

Ion	Ratio	Lower	Upper
276	100		
138	65.5	16.2	30.0#
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



:01215

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M93

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725015

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DEP43F15

Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

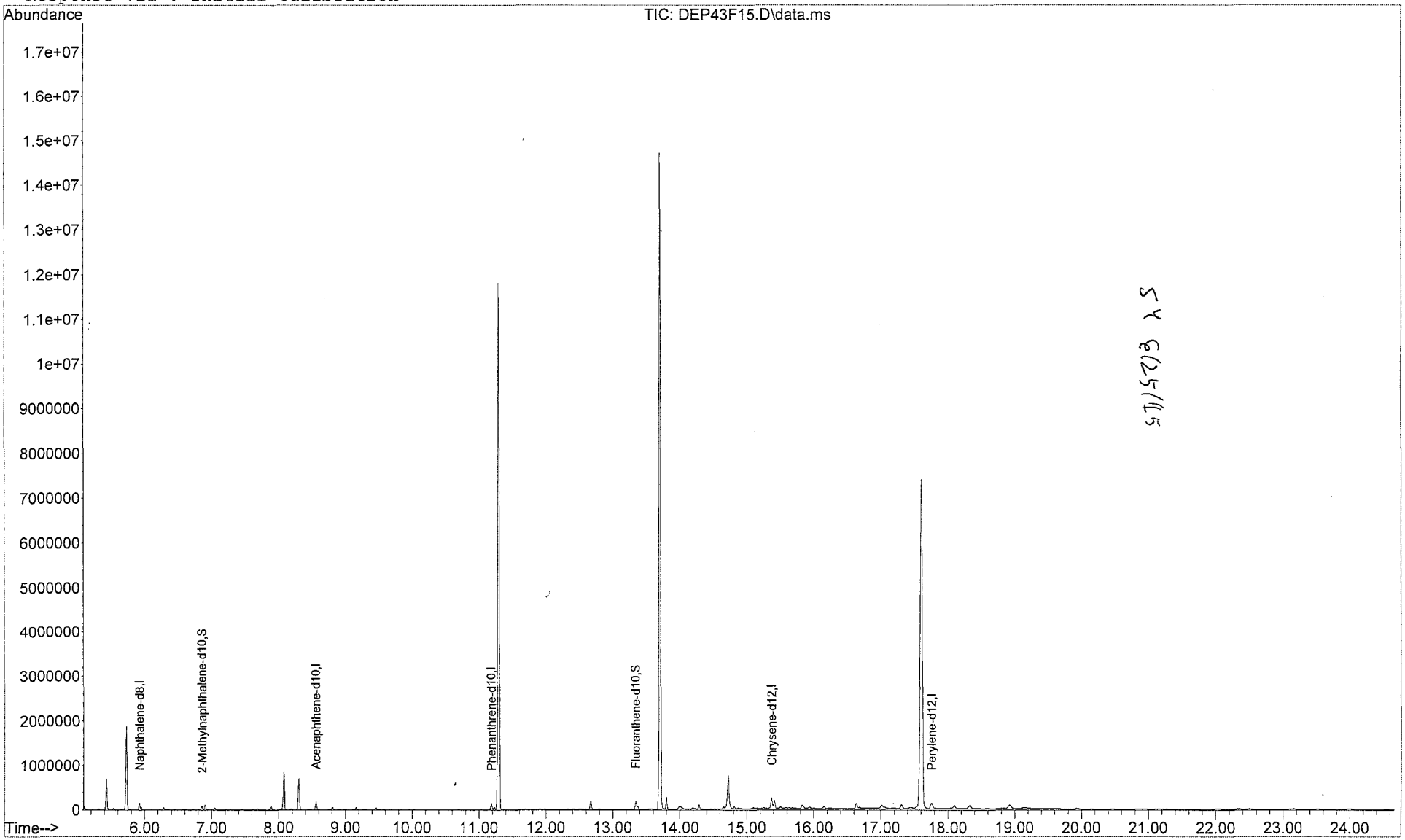
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.6	J
91-57-6	2-Methylnaphthalene	7.5	
208-96-8	Acenaphthylene	0.83	J
83-32-9	Acenaphthene	3.8	U
86-73-7	Fluorene	3.8	U
87-86-5	Pentachlorophenol	7.6	U
85-01-8	Phenanthrene	2.9	J
120-12-7	Anthracene	1.0	J
206-44-0	Fluoranthene	3.4	J
129-00-0	Pyrene	4.9	
56-55-3	Benzo(a)anthracene	2.7	J
218-01-9	Chrysene	3.6	J
205-99-2	Benzo(b)fluoranthene	5.1	
207-08-9	Benzo(k)fluoranthene	1.5	J
50-32-8	Benzo(a)pyrene	1.8	J
193-39-5	Indeno(1,2,3-cd)pyrene	1.6	J
53-70-3	Dibenzo(a,h)anthracene	3.8	U
191-24-2	Benzo(g,h,i)perylene	3.8	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP43F15.D Vial: 39
Acq On : 06/24/2015 12:33 Operator: DJC
Sample : 1515725015 F9M93 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 25 10:37:20 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



6/25/15 JS

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP43F15.D Vial: 39
Acq On : 06/24/2015 12:33 Operator: DJC
Sample : 1515725015 F9M93 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 10:37:20 2015 Results File: DSOM_SIMJ2.RES

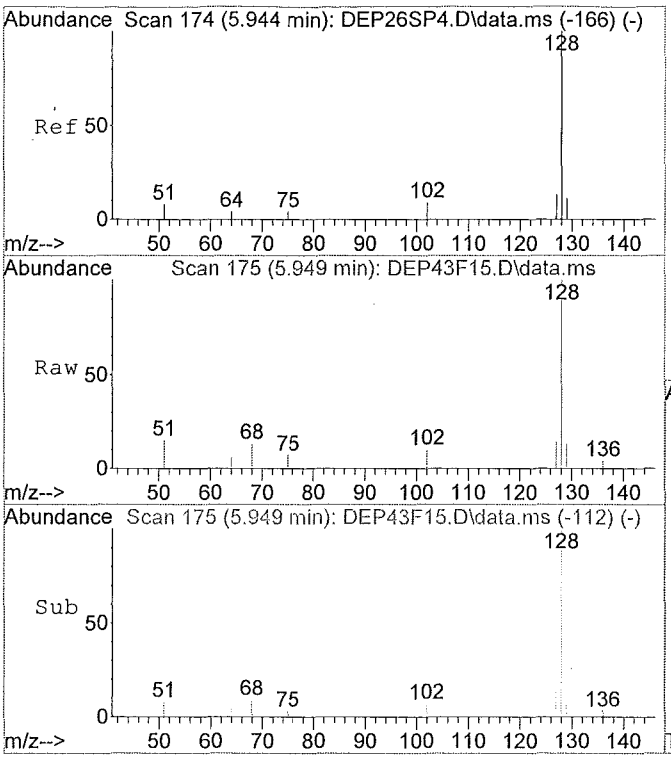
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Qvalue
1) Naphthalene-d8	5.92	136	163565	0.40 ug/ml	
5) Acenaphthene-d10	8.56	164	117895	0.40 ug/ml	
9) Phenanthrene-d10	11.18	188	194027	0.40 ug/ml	
15) Chrysene-d12	15.37	240	225772	0.40 ug/ml	
19) Perylene-d12	17.76	264	214895	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.86	152	95690	0.363ug/mL	
13) Fluoranthene-d10	13.34	212	203012	0.383ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.95	128	40301	0.094ug/ml	98
4) 2-Methylnaphthalene	6.90	142	54570	0.199ug/ml	99
6) Acenaphthylene	8.32	152	11309	0.022ug/ml	59
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.23	178	43333	0.078ug/ml	93
12) Anthracene	11.33	178	14533	0.027ug/ml	79
14) Fluoranthene	13.37	202	56495	0.089ug/ml	53
16) Pyrene	13.73	202	91873	0.130ug/ml	1
17) Benzo(a)anthracene	15.35	228	42315	0.070ug/ml	89
18) Chrysene	15.40	228	60274	0.095ug/ml	95
20) Benzo(b)fluoranthene	17.01	252	90045	0.134ug/ml	97
21) Benzo(k)fluoranthene	17.05	252	26602	0.038ug/ml m	97
22) Benzo(a)pyrene	17.64	252	30951	0.048ug/ml	87
23) Indeno(1,2,3-c,d)pyrene	20.45	276	23677	0.042ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	0.00	276		Not Detected	

54
6/25/15

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

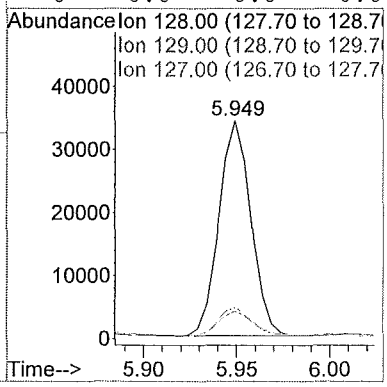
01219

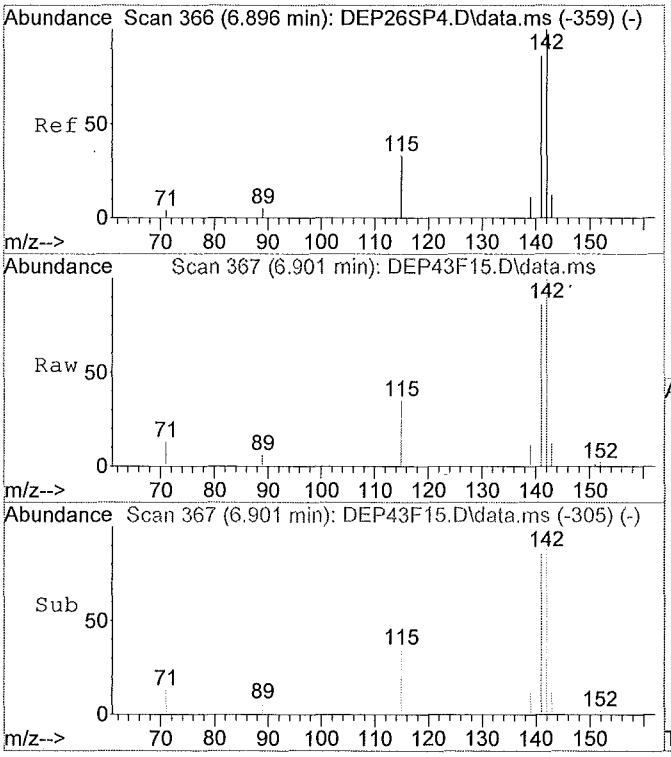


#2
Naphthalene
Concen: 0.09 ug/ml
RT: 5.95 min Scan# 175
Delta R.T. 0.01 min
Lab File: DEP43F15.D
Acq: 06/24/2015 12:33

Tgt Ion:128 Resp: 40301

Ion	Ratio	Lower	Upper
128	100		
129	11.9	0.0	0.0#
127	14.8	11.1	20.5
0	0.0	0.0	0.0

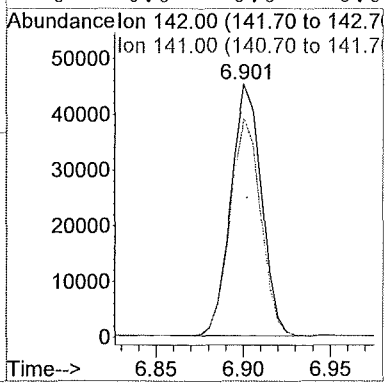




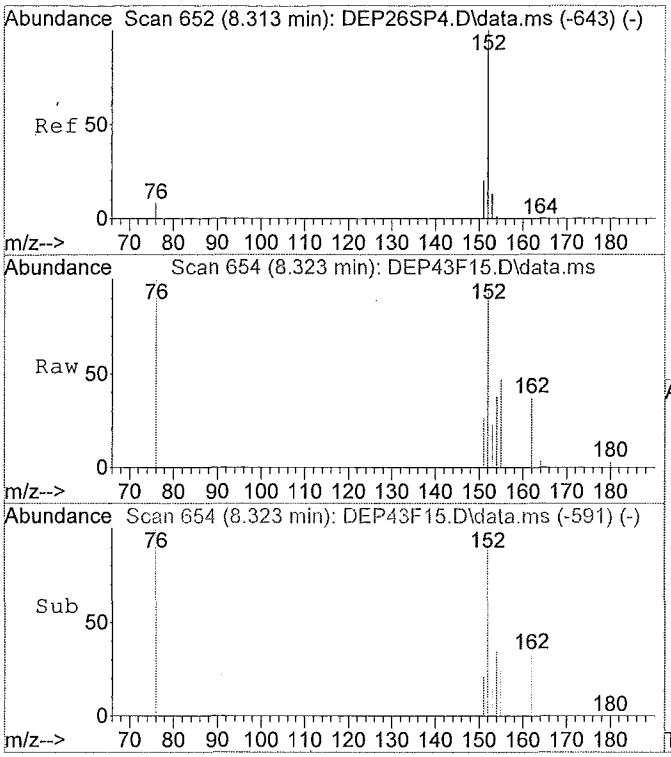
#4
2-Methylnaphthalene
Concen: 0.20 ug/ml
RT: 6.90 min Scan# 367
Delta R.T. 0.00 min
Lab File: DEP43F15.D
Acq: 06/24/2015 12:33

Tgt Ion:142 Resp: 54570

Ion	Ratio	Lower	Upper
142	100		
141	86.3	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0



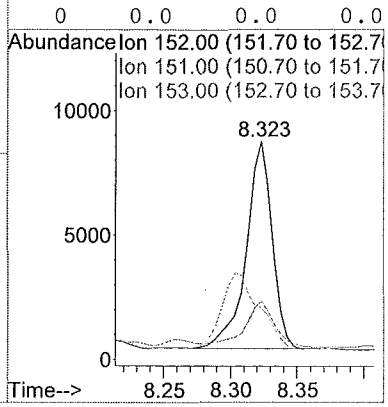
:01219

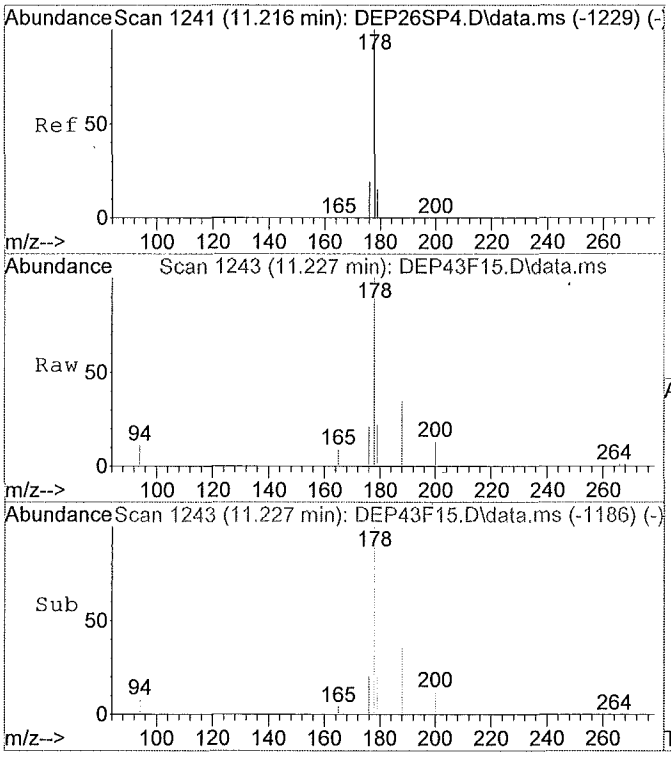


#6
Acenaphthylene
Concen: 0.02 ug/ml
RT: 8.32 min Scan# 654
Delta R.T. 0.01 min
Lab File: DEP43F15.D
Acq: 06/24/2015 12:33

Tgt Ion:152 Resp: 11309

Ion	Ratio	Lower	Upper
152	100		
151	25.1	15.5	28.7
153	53.0	8.8	16.4#
0	0.0	0.0	0.0

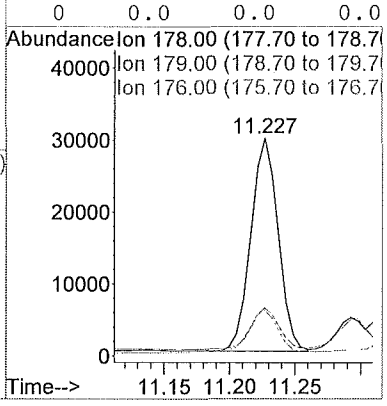




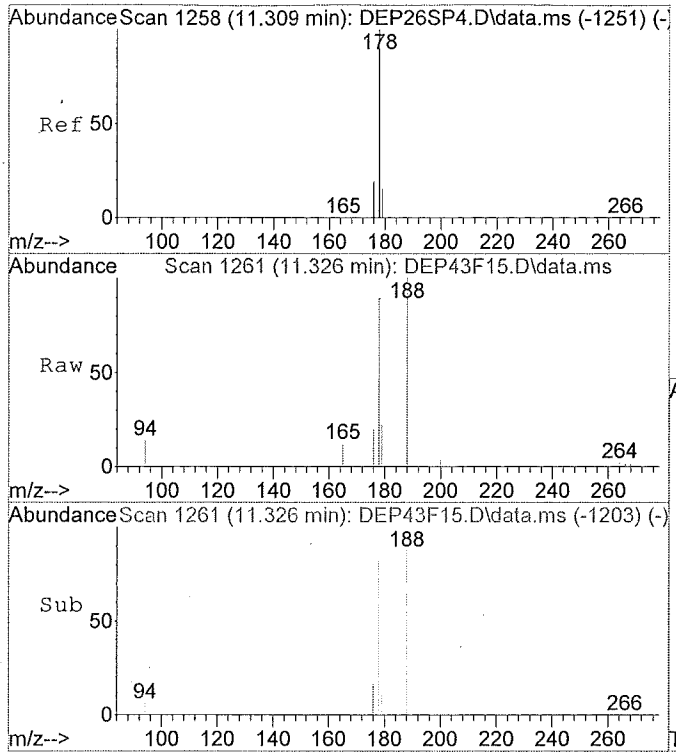
#11
Phenanthrene
Concen: 0.08 ug/ml
RT: 11.23 min Scan# 1243
Delta R.T. 0.01 min
Lab File: DEP43F15.D
Acq: 06/24/2015 12:33

Tgt Ion:178 Resp: 43333

Ion	Ratio	Lower	Upper
178	100		
179	21.0	11.1	20.5#
176	21.5	14.1	26.1
0	0.0	0.0	0.0



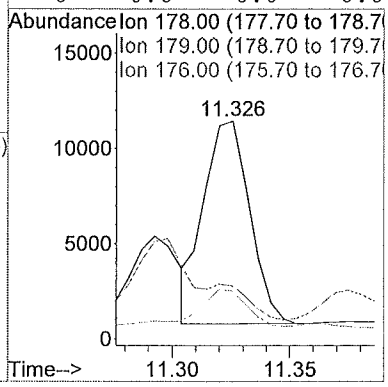
: 01220

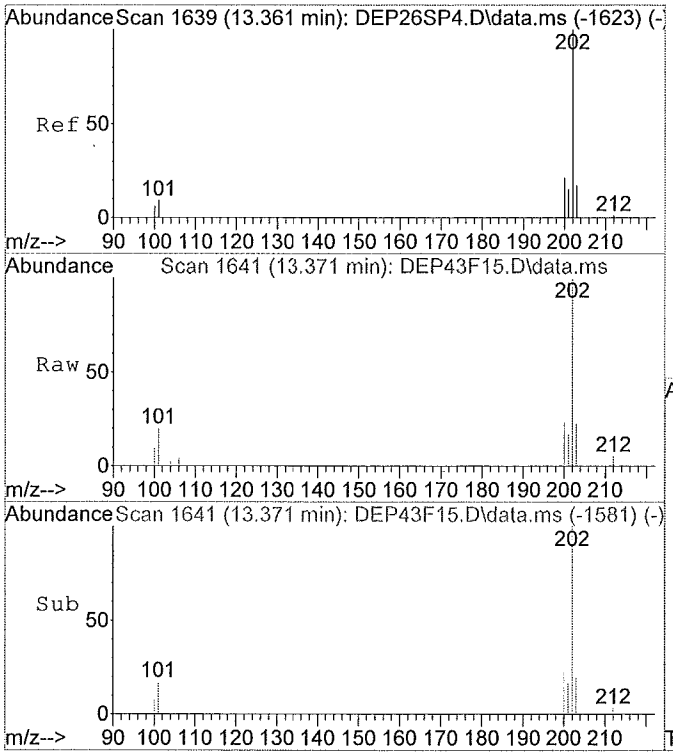


#12
Anthracene
Concen: 0.03 ug/ml
RT: 11.33 min Scan# 1261
Delta R.T. 0.02 min
Lab File: DEP43F15.D
Acq: 06/24/2015 12:33

Tgt Ion:178 Resp: 14533

Ion	Ratio	Lower	Upper
178	100		
179	0.0	11.6	21.6#
176	23.0	13.9	25.7
0	0.0	0.0	0.0

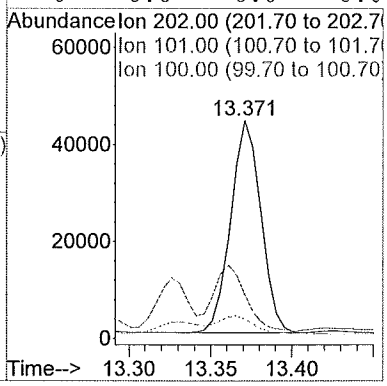


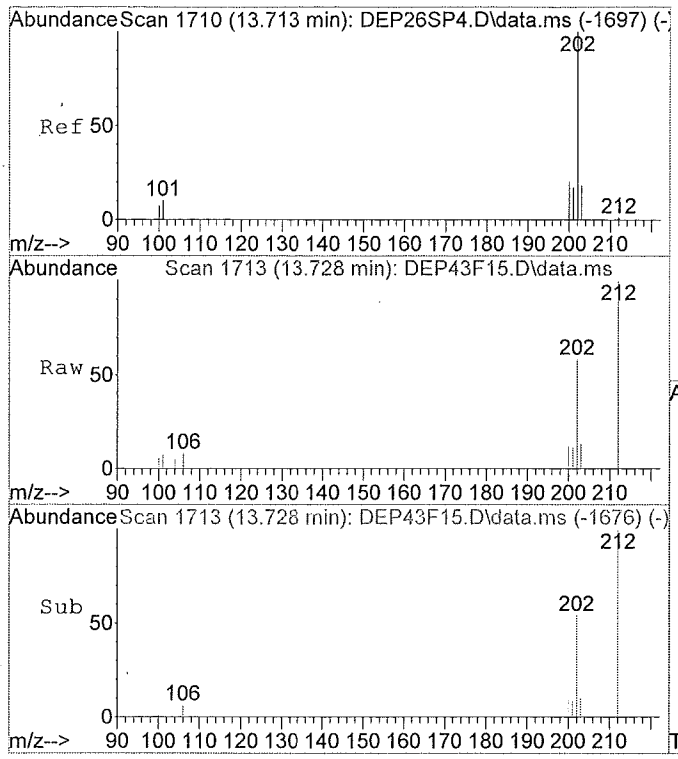


#14
Fluoranthene
Concen: 0.09 ug/ml
RT: 13.37 min Scan# 1641
Delta R.T. 0.01 min
Lab File: DEP43F15.D
Acq: 06/24/2015 12:33

Tgt Ion:202 Resp: 56495

Ion	Ratio	Lower	Upper
202	100		
101	32.4	9.4	17.6#
100	10.7	0.0	0.0#
0	0.0	0.0	0.0

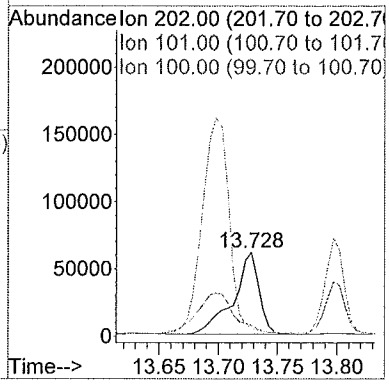


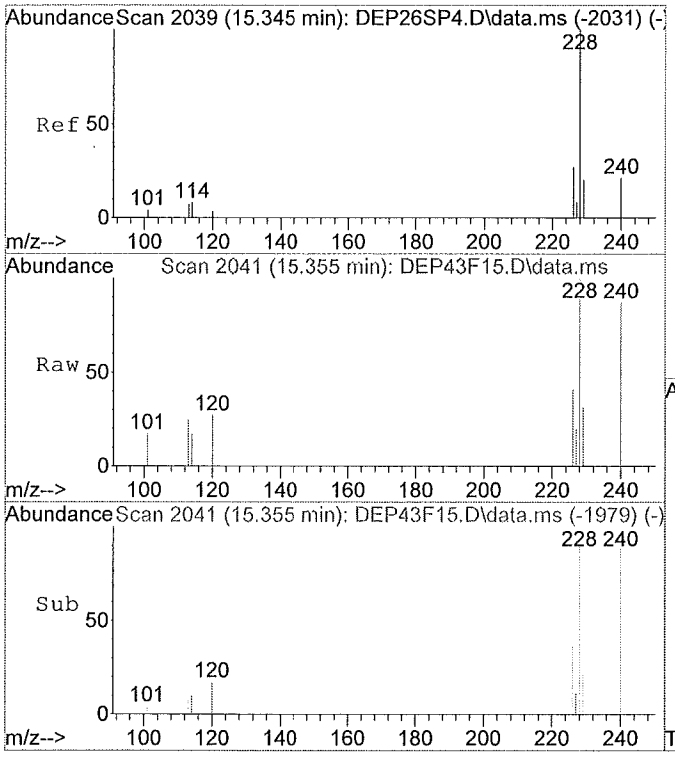


#16
Pyrene
Concen: 0.13 ug/ml
RT: 13.73 min Scan# 1713
Delta R.T. 0.01 min
Lab File: DEP43F15.D
Acq: 06/24/2015 12:33

Tgt Ion:202 Resp: 91873

Ion	Ratio	Lower	Upper
202	100		
101	71.3	10.6	19.6#
100	285.4	9.4	17.4#
0	0.0	0.0	0.0

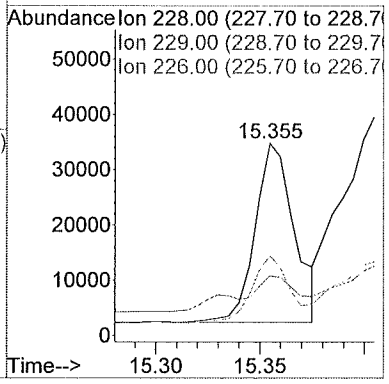


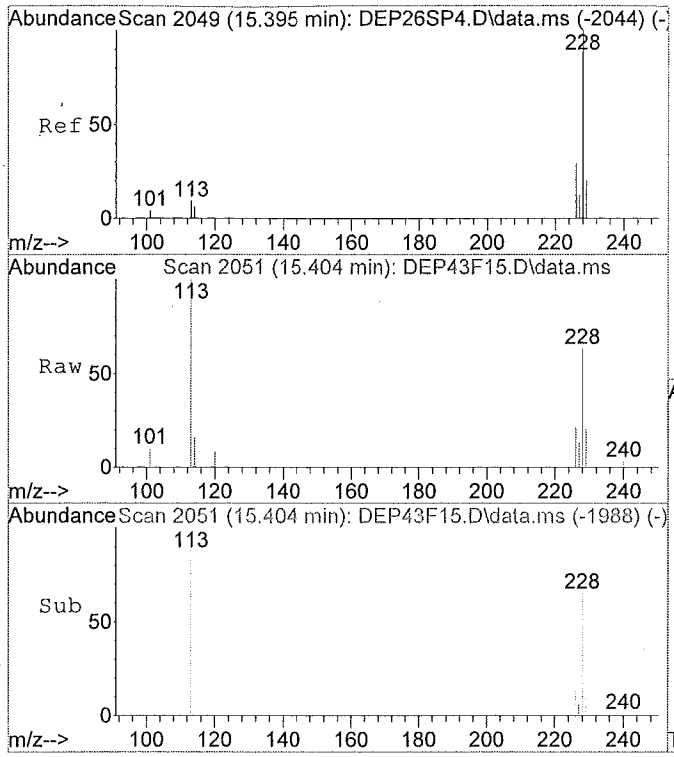


#17
Benzo(a)anthracene
Concen: 0.07 ug/ml
RT: 15.35 min Scan# 2041
Delta R.T. 0.01 min
Lab File: DEP43F15.D
Acq: 06/24/2015 12:33

Tgt Ion:228 Resp: 42315

Ion	Ratio	Lower	Upper
228	100		
229	21.9	14.5	26.9
226	35.1	18.5	34.3#
0	0.0	0.0	0.0

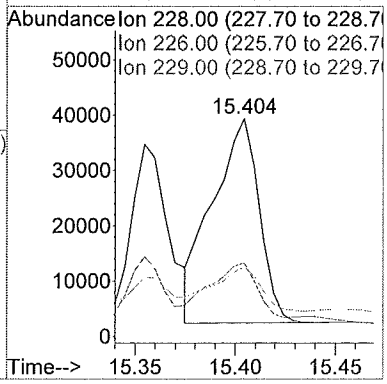


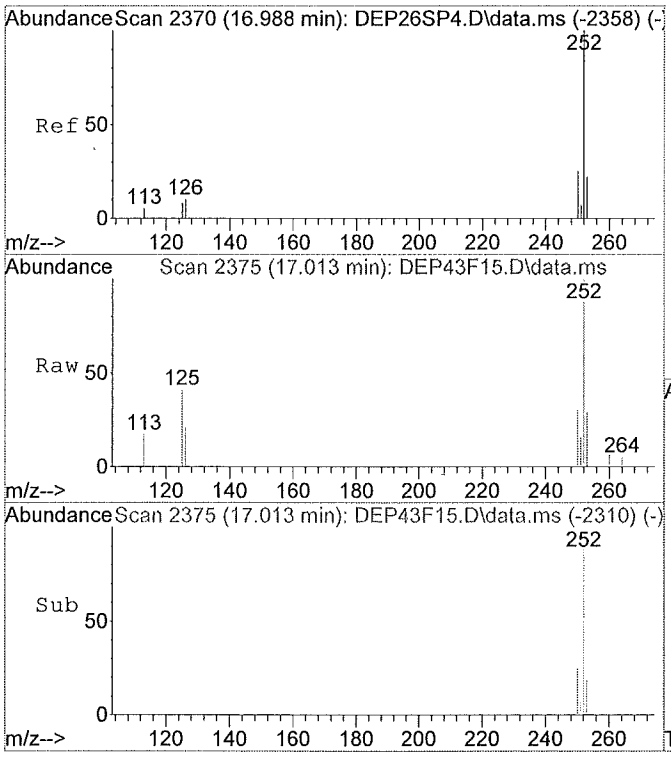


#18
Chrysene
Concen: 0.09 ug/ml
RT: 15.40 min Scan# 2051
Delta R.T. 0.01 min
Lab File: DEP43F15.D
Acq: 06/24/2015 12:33

Tgt Ion:228 Resp: 60274

Ion	Ratio	Lower	Upper
228	100		
226	26.6	19.7	36.7
229	24.0	14.5	26.9
0	0.0	0.0	0.0

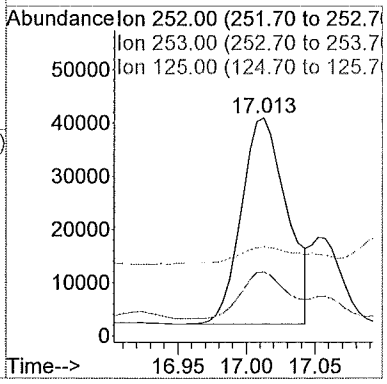




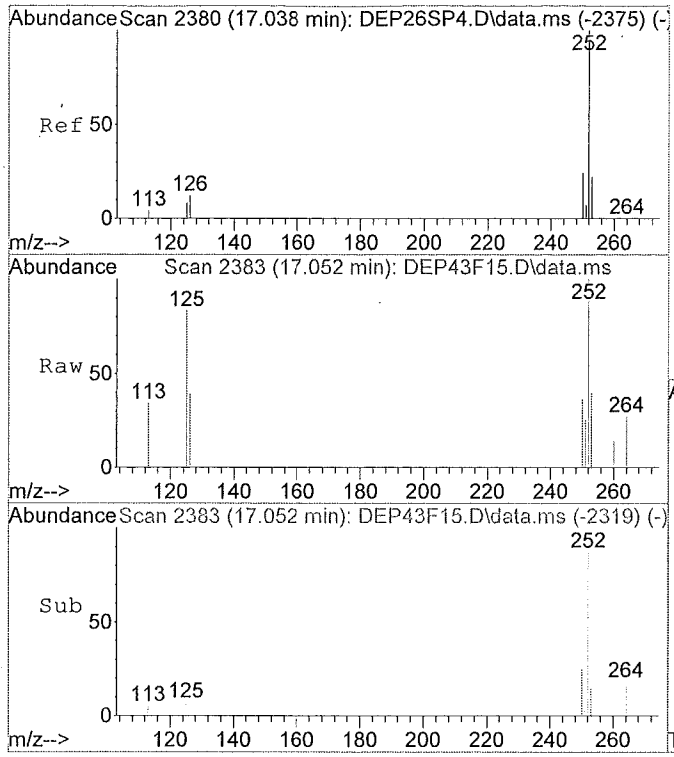
#20
Benzo(b)fluoranthene
Concen: 0.13 ug/ml
RT: 17.01 min Scan# 2375
Delta R.T. 0.03 min
Lab File: DEP43F15.D
Acq: 06/24/2015 12:33

Tgt Ion:252 Resp: 90045

Ion	Ratio	Lower	Upper
252	100		
253	23.0	15.3	28.3
125	16.9	0.0	0.0#
0	0.0	0.0	0.0

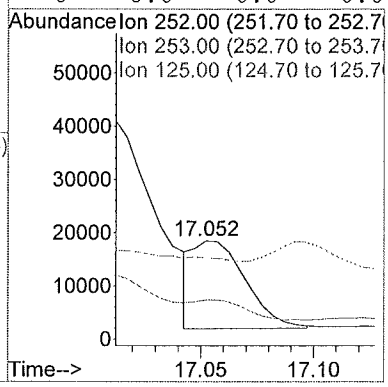


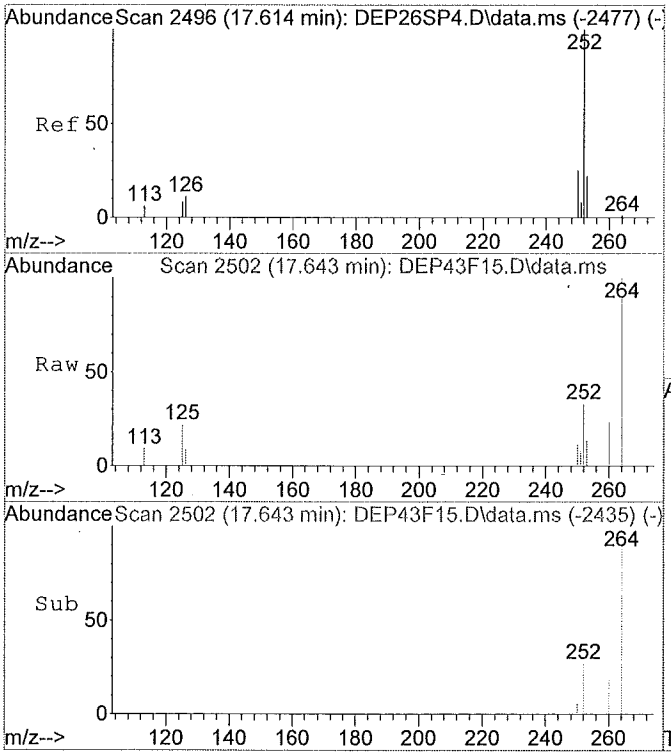
01223



#21
Benzo(k)fluoranthene
Concen: 0.04 ug/ml m
RT: 17.05 min Scan# 2383
Delta R.T. 0.02 min
Lab File: DEP43F15.D
Acq: 06/24/2015 12:33

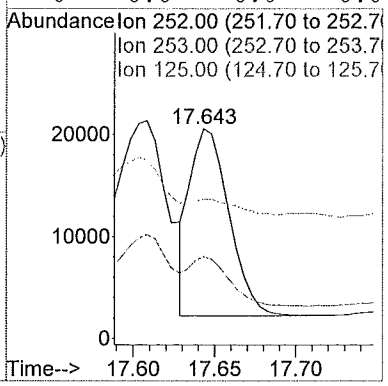
Tgt Ion:252	Resp:	26602	
Ion	Ratio	Lower	Upper
252	100		
253	77.9	15.0	27.8#
125	52.1	0.0	0.0#
0	0.0	0.0	0.0



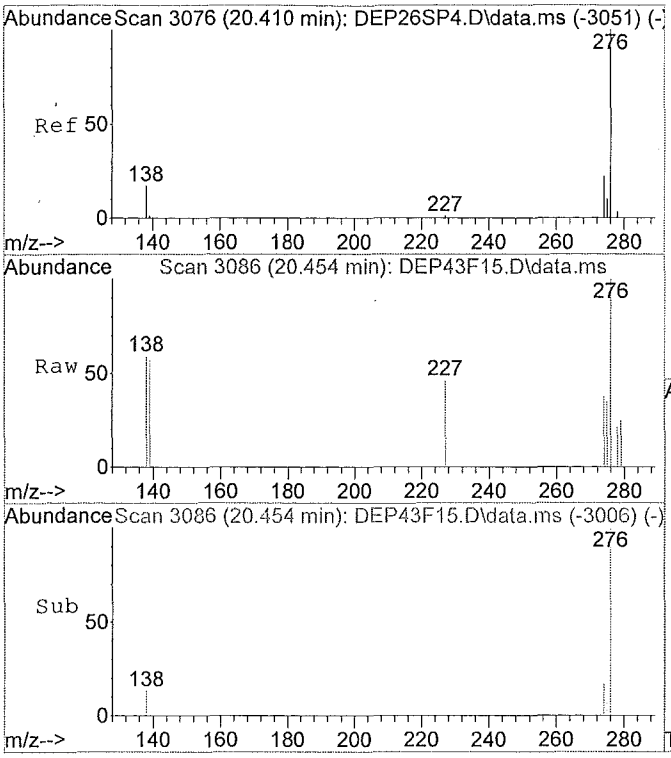


#22
Benzo(a)pyrene
Concen: 0.05 ug/ml
RT: 17.64 min Scan# 2502
Delta R.T. 0.03 min
Lab File: DEP43F15.D
Acq: 06/24/2015 12:33

Tgt Ion:252	Resp:	30951	
Ion	Ratio	Lower	Upper
252	100		
253	27.5	15.0	27.8
125	0.0	0.0	0.0
0	0.0	0.0	0.0



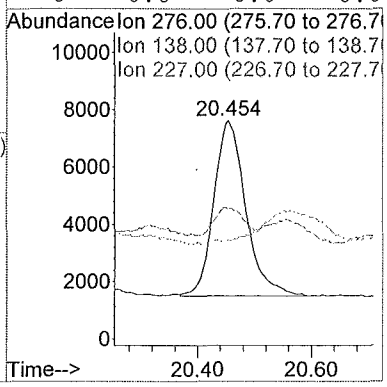
: 01321



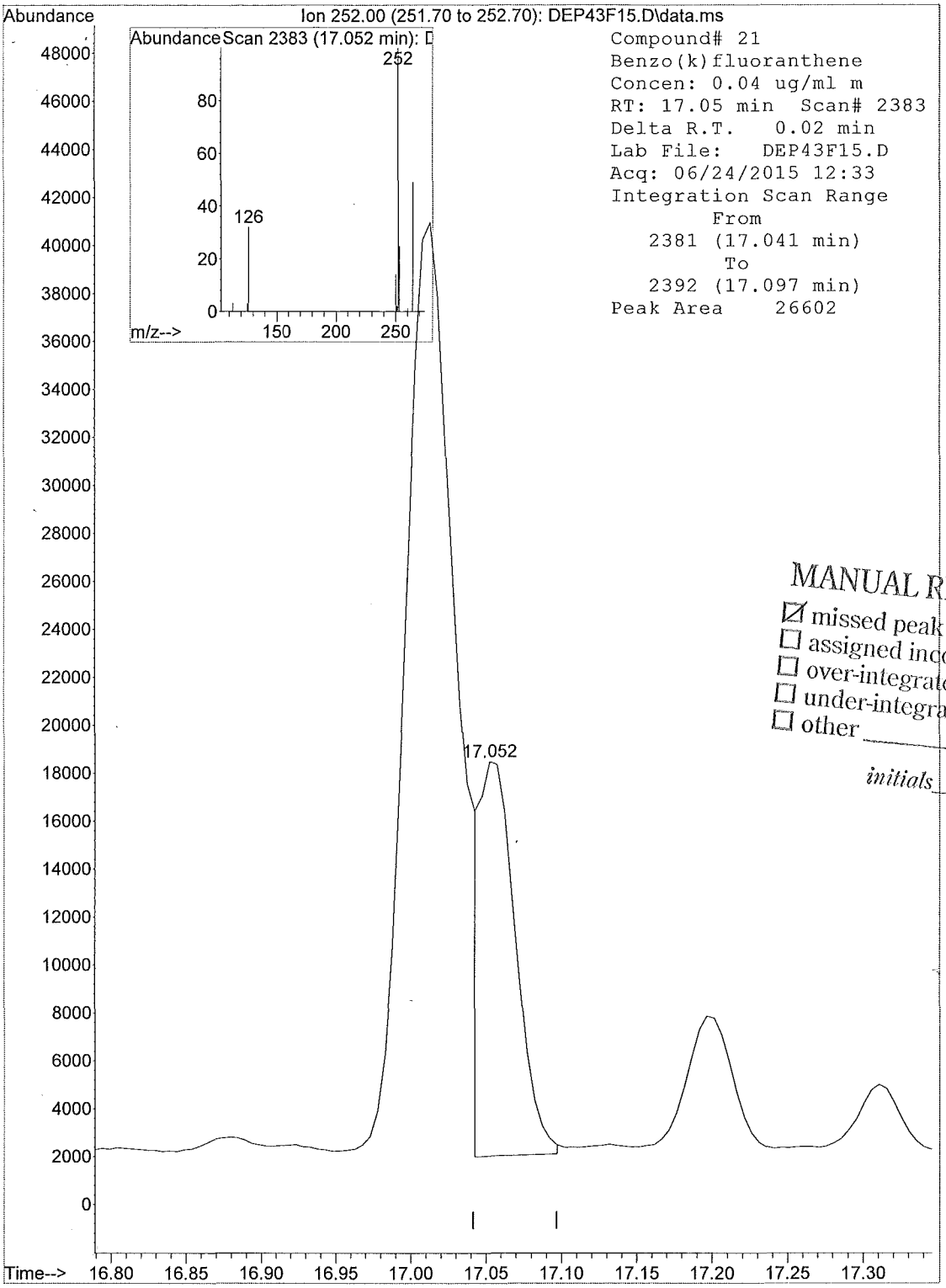
#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.04 ug/ml
RT: 20.45 min Scan# 3086
Delta R.T. 0.06 min
Lab File: DEP43F15.D
Acq: 06/24/2015 12:33

Tgt Ion:276 Resp: 23677

Ion	Ratio	Lower	Upper
276	100		
138	14.1	0.0	0.0#
227	0.5	0.0	0.0#
0	0.0	0.0	0.0



M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

☑ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other

initials SY *date* 6/25/15

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M94

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725016

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DEP44F16

Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

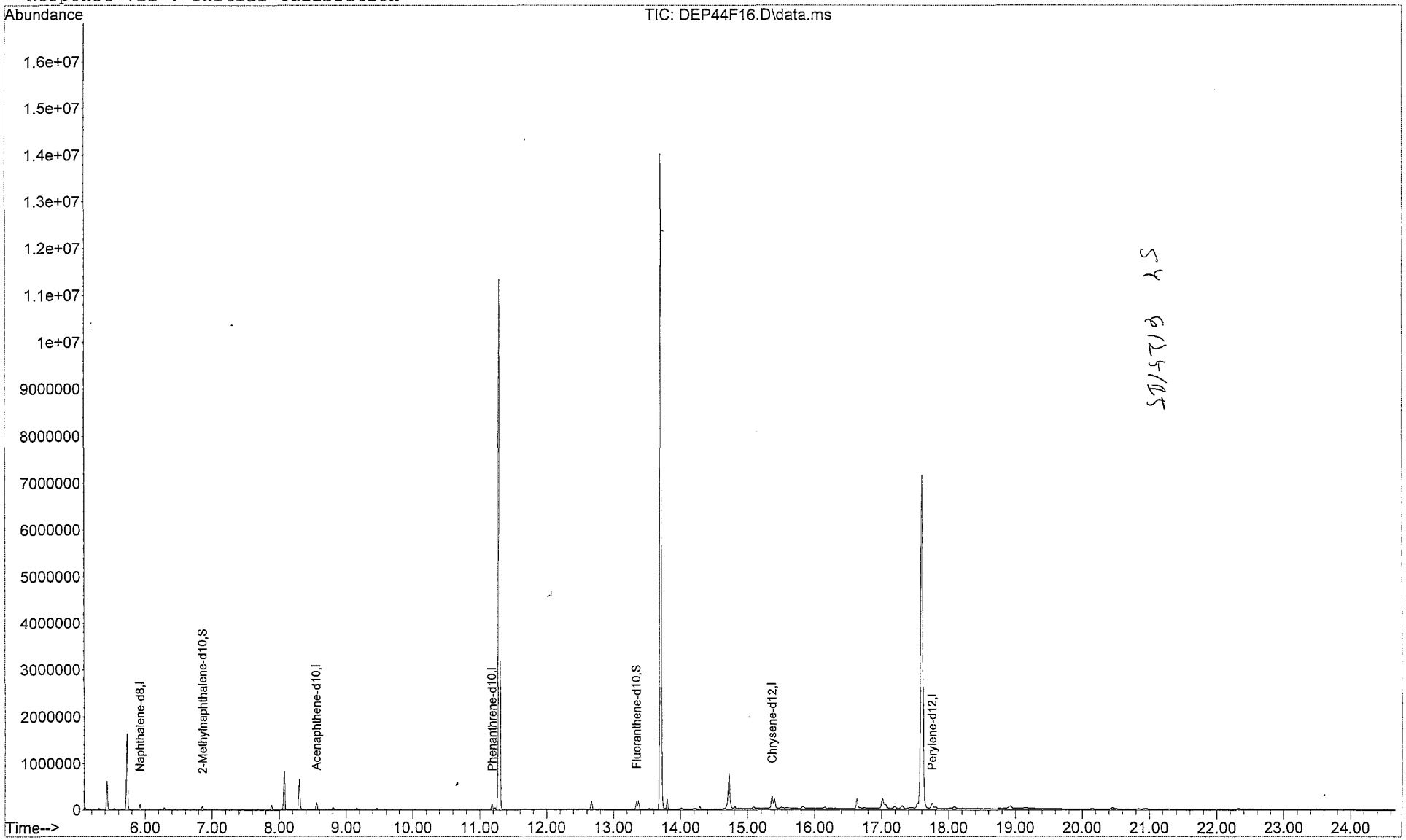
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.7	U
91-57-6	2-Methylnaphthalene	3.7	U
208-96-8	Acenaphthylene	2.9	J
83-32-9	Acenaphthene	3.7	U
86-73-7	Fluorene	3.7	U
87-86-5	Pentachlorophenol	7.6	U
85-01-8	Phenanthrene	2.6	J
120-12-7	Anthracene	3.1	J
206-44-0	Fluoranthene	9.0	
129-00-0	Pyrene	9.8	
56-55-3	Benzo(a)anthracene	8.1	
218-01-9	Chrysene	9.7	
205-99-2	Benzo(b)fluoranthene	16.	
207-08-9	Benzo(k)fluoranthene	5.2	
50-32-8	Benzo(a)pyrene	7.0	
193-39-5	Indeno(1,2,3-cd)pyrene	5.6	
53-70-3	Dibenzo(a,h)anthracene	1.4	J
191-24-2	Benzo(g,h,i)perylene	0.99	J

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP44F16.D Vial: 40
Acq On : 06/24/2015 13:03 Operator: DJC
Sample : 1515725016 F9M94 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 25 10:37:49 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



SY 6/25/15

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP44F16.D Vial: 40
Acq On : 06/24/2015 13:03 Operator: DJC
Sample : 1515725016 F9M94 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 10:37:49 2015 Results File: DSOM_SIMJ2.RES

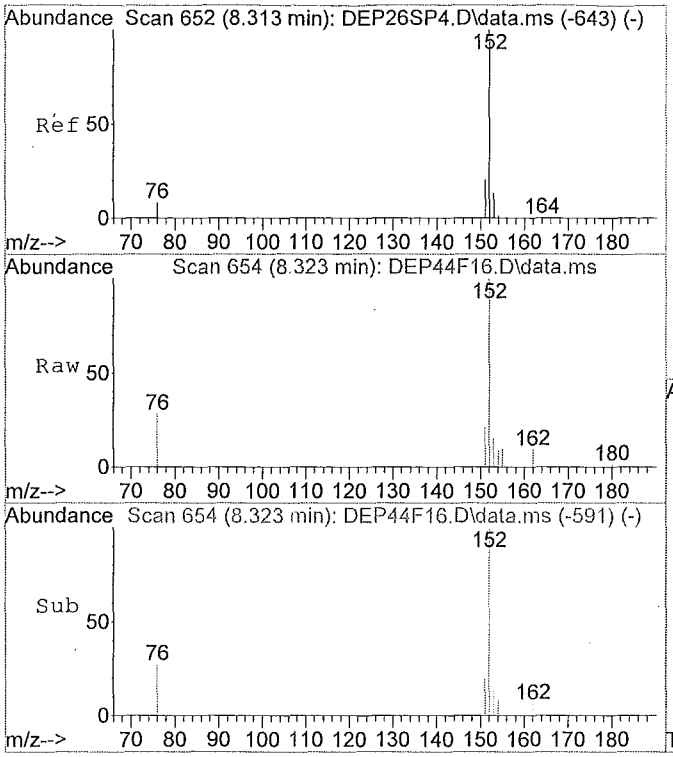
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.92	136	133422	0.40 ug/ml	
5) Acenaphthene-d10	8.56	164	103211	0.40 ug/ml	
9) Phenanthrene-d10	11.18	188	179859	0.40 ug/ml	
15) Chrysene-d12	15.37	240	213662	0.40 ug/ml	
19) Perylene-d12	17.75	264	200829	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.86	152	85876	0.399ug/mL	
13) Fluoranthene-d10	13.34	212	197383	0.401ug/mL	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	8.32	152	34734	0.077ug/ml	89
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.23	178	36092	0.070ug/ml	91
12) Anthracene	11.32	178	41801	0.083ug/ml	92
14) Fluoranthene	13.37	202	139880	0.237ug/ml	97
16) Pyrene	13.73	202	174316	0.260ug/ml	1
17) Benzo(a)anthracene	15.35	228	121743	0.214ug/ml	87
18) Chrysene	15.40	228	154165	0.256ug/ml	95
20) Benzo(b)fluoranthene	17.01	252	272001	0.435ug/ml	99
21) Benzo(k)fluoranthene	17.05	252	89387	0.138ug/ml m	98
22) Benzo(a)pyrene	17.64	252	109989	0.184ug/ml	93
23) Indeno(1,2,3-c,d)pyrene	20.45	276	77427	0.148ug/ml	100
24) Dibenzo(a,h)anthracene	20.52	278	21762	0.038ug/ml	87
25) Benzo(g,h,i)perylene	21.28	276	15390	0.026ug/ml	55

SY 6/25/15

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

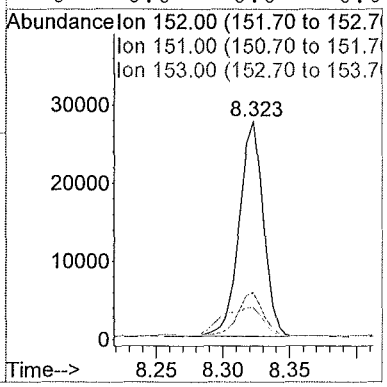
: 81229

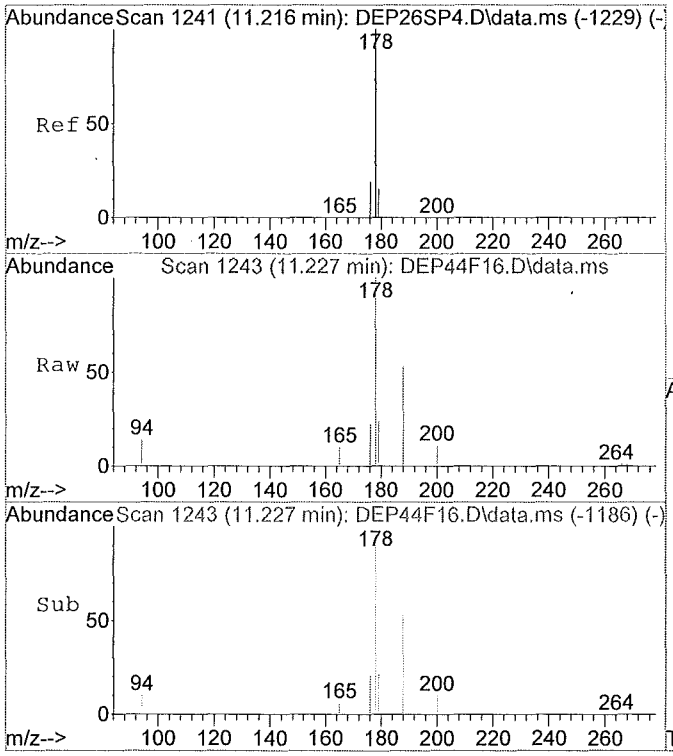


#6
Acenaphthylene
Concen: 0.08 ug/ml
RT: 8.32 min Scan# 654
Delta R.T. 0.01 min
Lab File: DEP44F16.D
Acq: 06/24/2015 13:03

Tgt Ion:152 Resp: 34734

Ion	Ratio	Lower	Upper
152	100		
151	21.1	15.5	28.7
153	23.5	8.8	16.4#
0	0.0	0.0	0.0

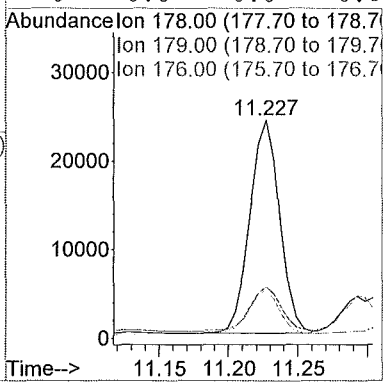


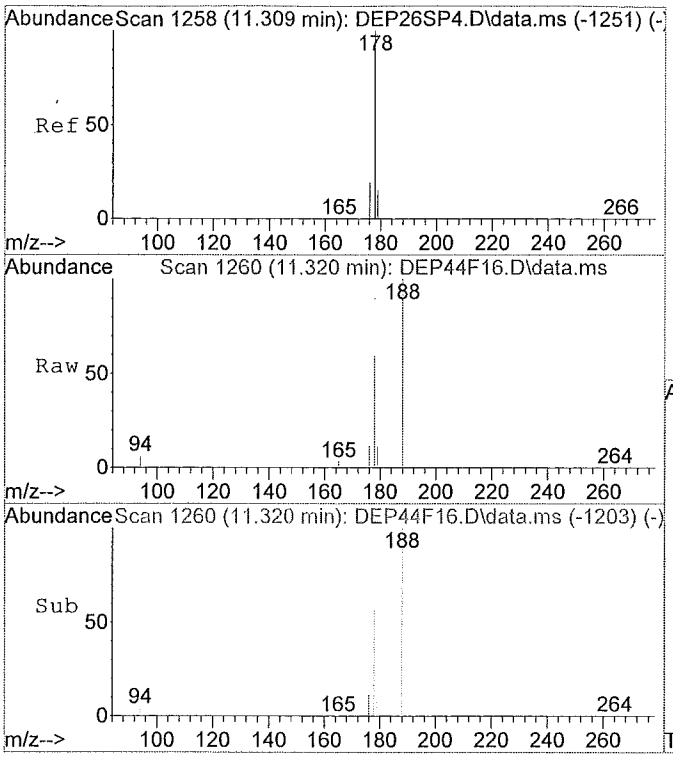


#11
Phenanthrene
Concen: 0.07 ug/ml
RT: 11.23 min Scan# 1243
Delta R.T. 0.01 min
Lab File: DEP44F16.D
Acq: 06/24/2015 13:03

Tgt Ion:178 Resp: 36092

Ion	Ratio	Lower	Upper
178	100		
179	21.9	11.1	20.5#
176	22.7	14.1	26.1
0	0.0	0.0	0.0

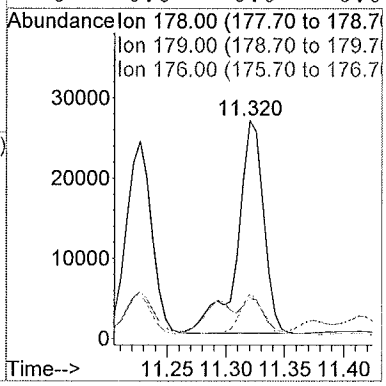


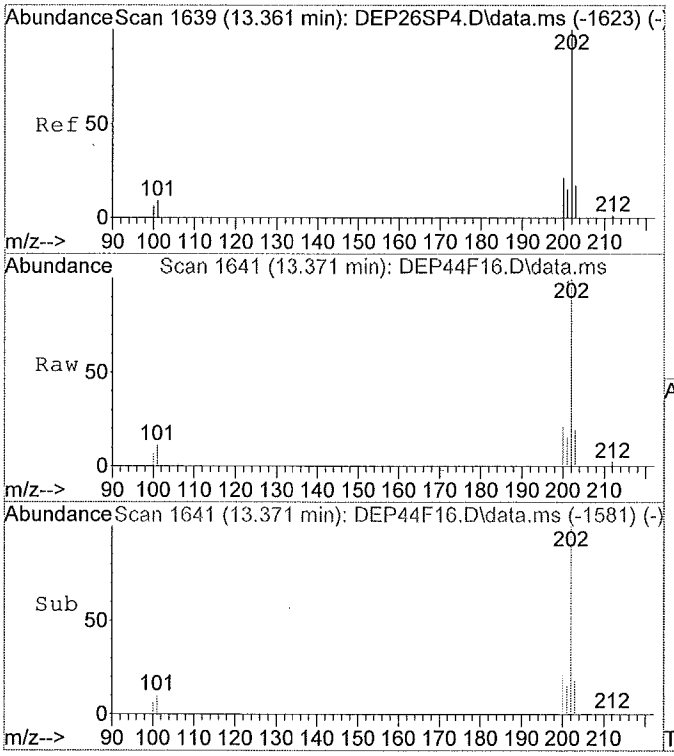


#12
Anthracene
Concen: 0.08 ug/ml
RT: 11.32 min Scan# 1260
Delta R.T. 0.01 min
Lab File: DEP44F16.D
Acq: 06/24/2015 13:03

Tgt Ion:178 Resp: 41801

Ion	Ratio	Lower	Upper
178	100		
179	11.9	11.6	21.6
176	16.8	13.9	25.7
0	0.0	0.0	0.0

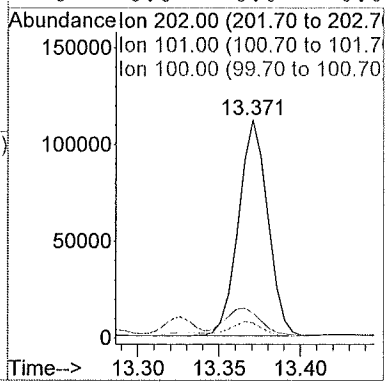


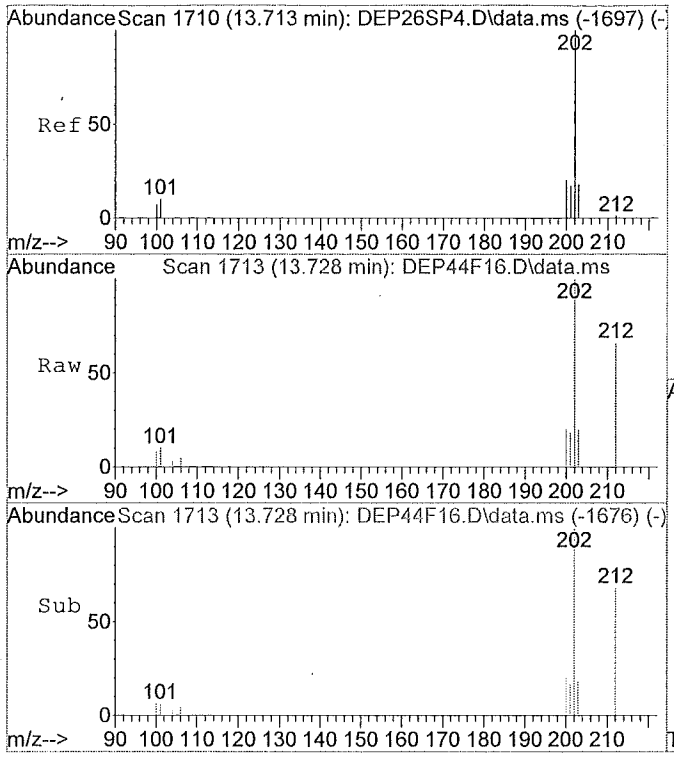


#14
Fluoranthene
Concen: 0.24 ug/ml
RT: 13.37 min Scan# 1641
Delta R.T. 0.01 min
Lab File: DEP44F16.D
Acq: 06/24/2015 13:03

Tgt Ion:202 Resp: 139880

Ion	Ratio	Lower	Upper
202	100		
101	14.8	9.4	17.6
100	7.7	0.0	0.0#
0	0.0	0.0	0.0

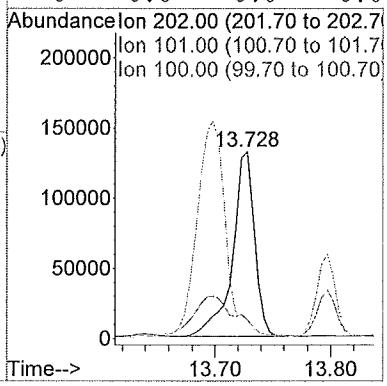


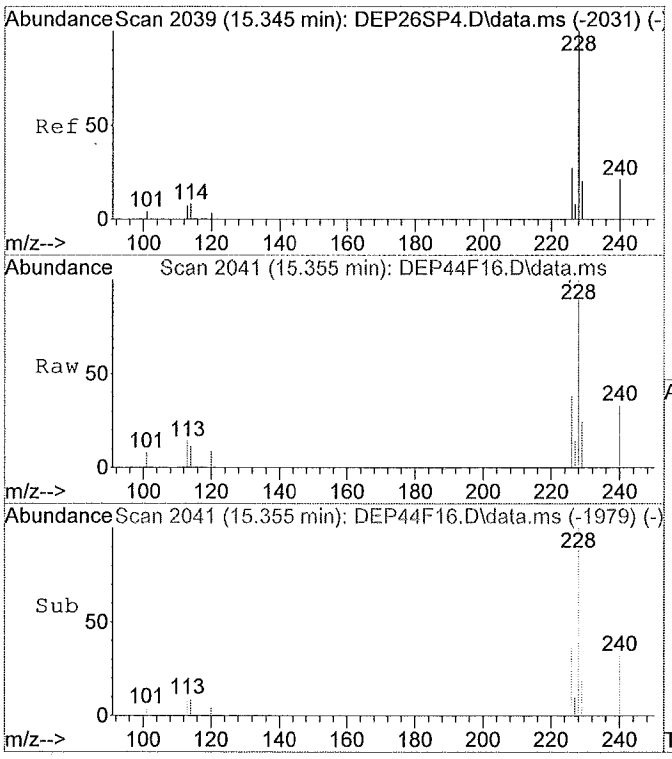


#16
Pyrene
Concen: 0.26 ug/ml
RT: 13.73 min Scan# 1713
Delta R.T. 0.01 min
Lab File: DEP44F16.D
Acq: 06/24/2015 13:03

Tgt Ion:202 Resp: 174316

Ion	Ratio	Lower	Upper
202	100		
101	40.4	10.6	19.6#
100	153.9	9.4	17.4#
0	0.0	0.0	0.0

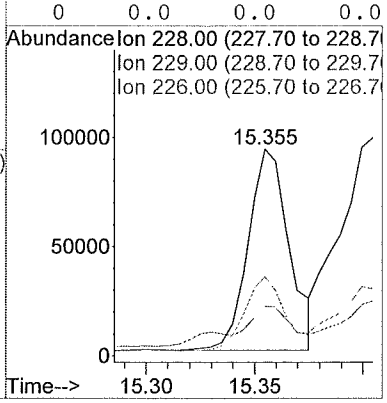




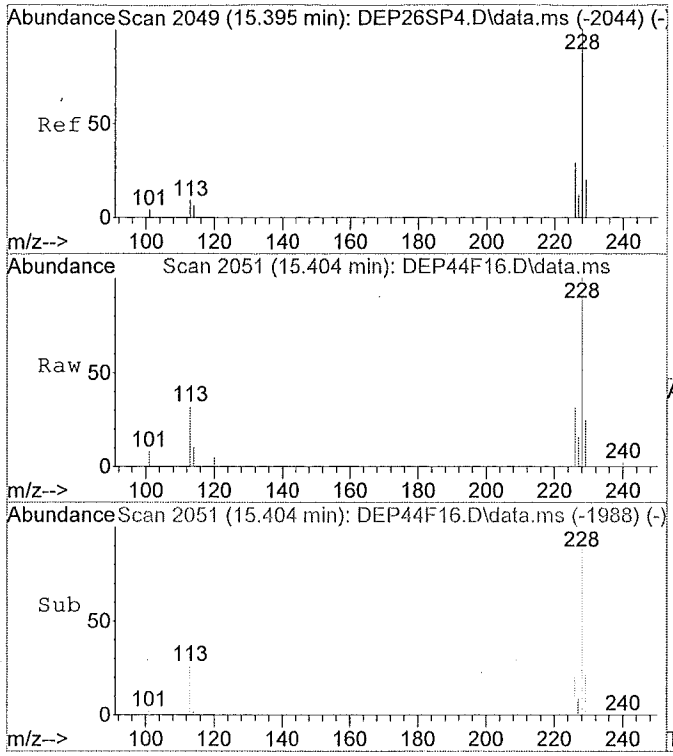
#17
Benzo(a)anthracene
Concen: 0.21 ug/ml
RT: 15.35 min Scan# 2041
Delta R.T. 0.01 min
Lab File: DEP44F16.D
Acq: 06/24/2015 13:03

Tgt Ion:228 Resp: 121743

Ion	Ratio	Lower	Upper
228	100		
229	19.3	14.5	26.9
226	36.7	18.5	34.3#
0	0.0	0.0	0.0



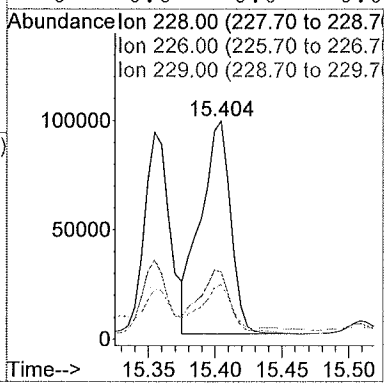
01232

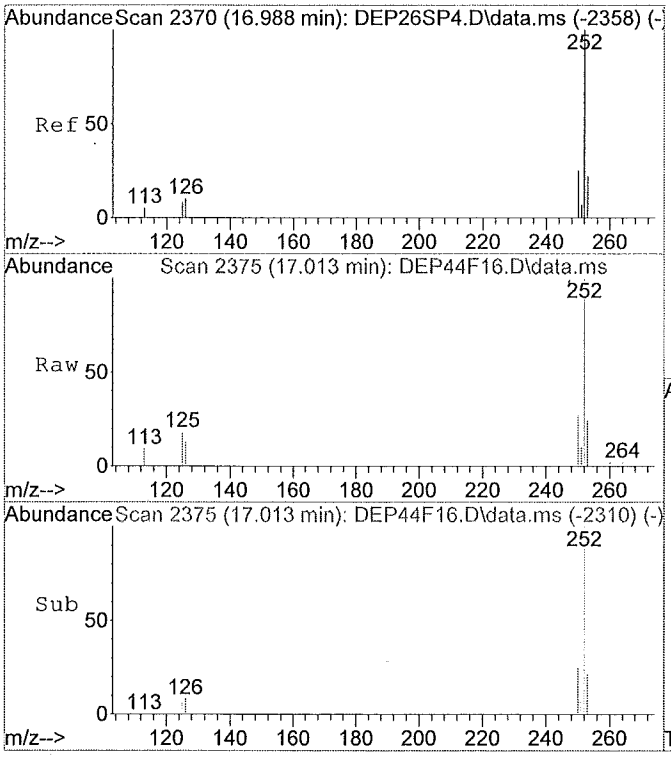


#18
Chrysene
Concen: 0.26 ug/ml
RT: 15.40 min Scan# 2051
Delta R.T. 0.01 min
Lab File: DEP44F16.D
Acq: 06/24/2015 13:03

Tgt Ion:228 Resp: 154165

Ion	Ratio	Lower	Upper
228	100		
226	32.2	19.7	36.7
229	19.8	14.5	26.9
0	0.0	0.0	0.0

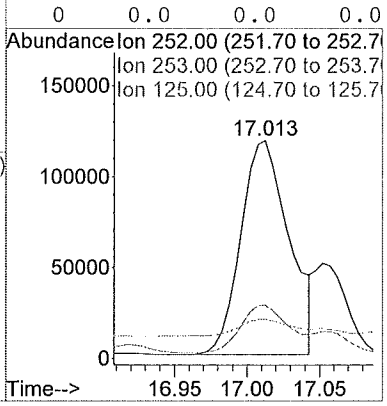




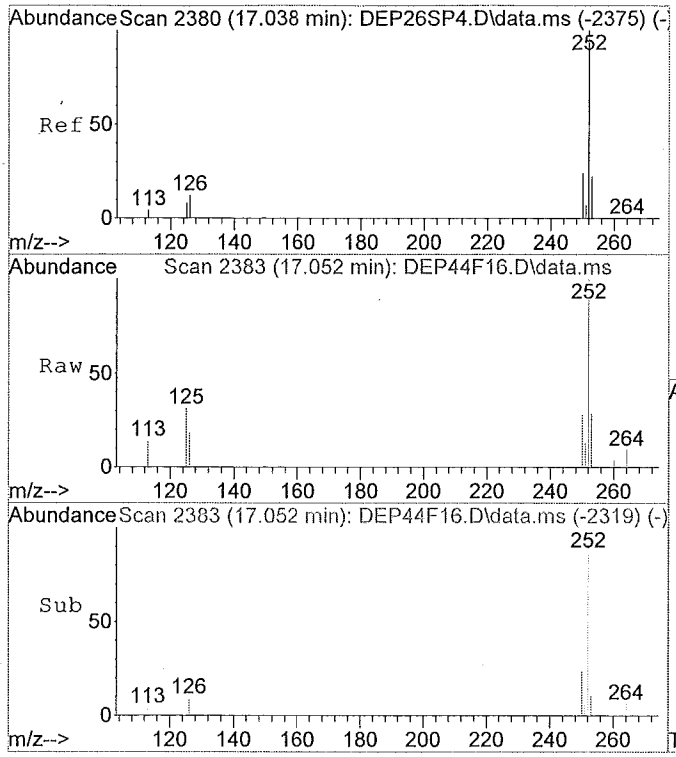
#20
Benzo(b)fluoranthene
Concen: 0.43 ug/ml
RT: 17.01 min Scan# 2375
Delta R.T. 0.03 min
Lab File: DEP44F16.D
Acq: 06/24/2015 13:03

Tgt Ion:252 Resp: 272001

Ion	Ratio	Lower	Upper
252	100		
253	22.5	15.3	28.3
125	10.9	0.0	0.0#
0	0.0	0.0	0.0



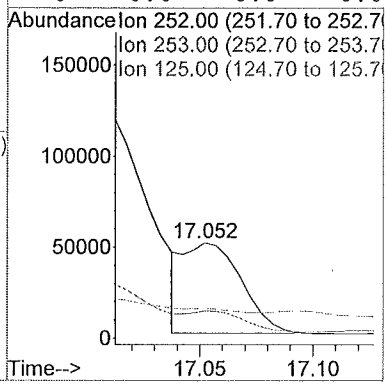
01233

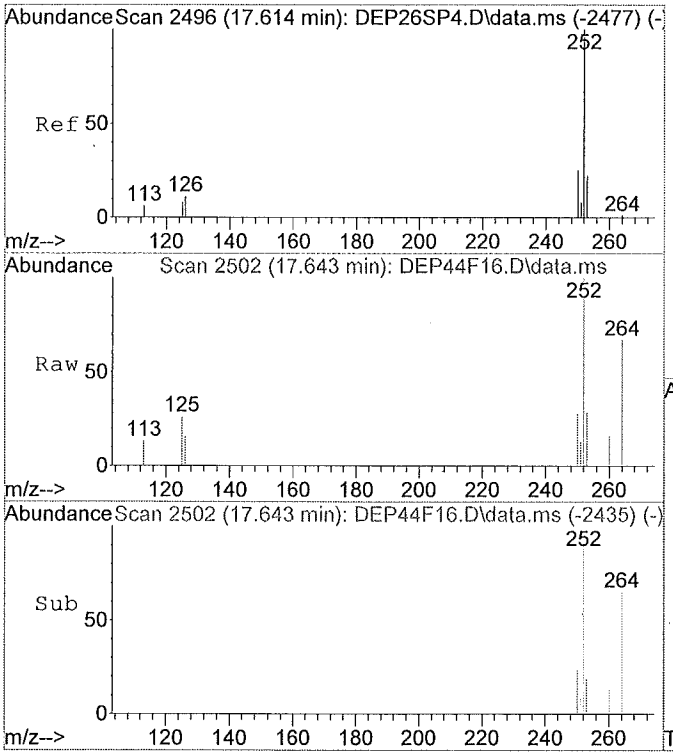


#21
Benzo(k)fluoranthene
Concen: 0.14 ug/ml m
RT: 17.05 min Scan# 2383
Delta R.T. 0.02 min
Lab File: DEP44F16.D
Acq: 06/24/2015 13:03

Tgt Ion:252 Resp: 89387

Ion	Ratio	Lower	Upper
252	100		
253	68.4	15.0	27.8#
125	34.7	0.0	0.0#
0	0.0	0.0	0.0

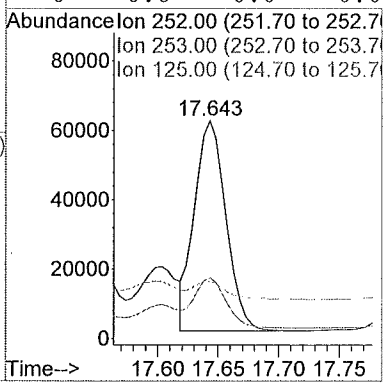




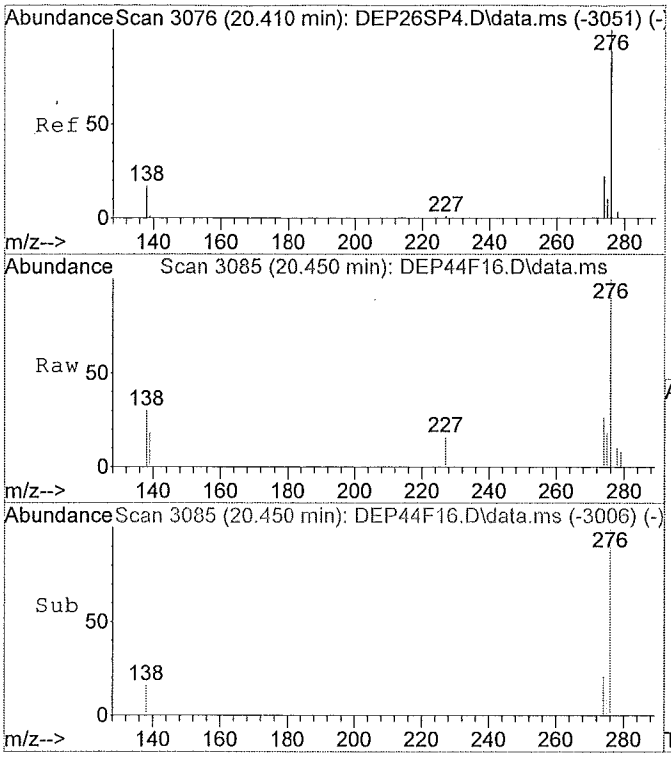
#22
Benzo(a)pyrene
Concen: 0.18 ug/ml
RT: 17.64 min Scan# 2502
Delta R.T. 0.03 min
Lab File: DEP44F16.D
Acq: 06/24/2015 13:03

Tgt Ion:252 Resp: 109989

Ion	Ratio	Lower	Upper
252	100		
253	24.7	15.0	27.8
125	7.9	0.0	0.0#
0	0.0	0.0	0.0



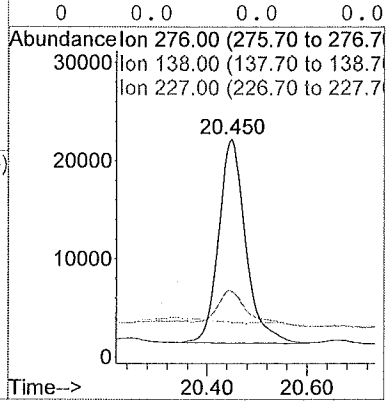
01234

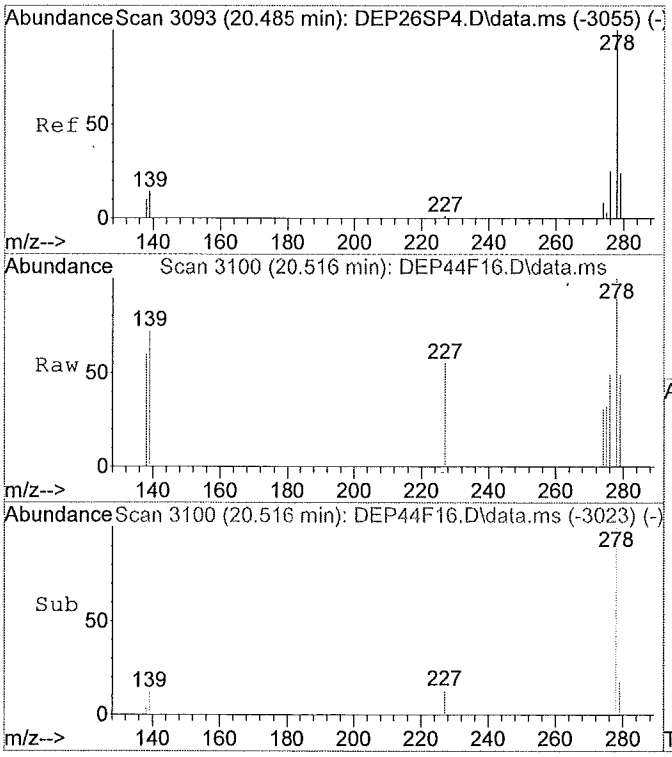


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.15 ug/ml
RT: 20.45 min Scan# 3085
Delta R.T. 0.05 min
Lab File: DEP44F16.D
Acq: 06/24/2015 13:03

Tgt Ion:276 Resp: 77427

Ion	Ratio	Lower	Upper
276	100		
138	20.8	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

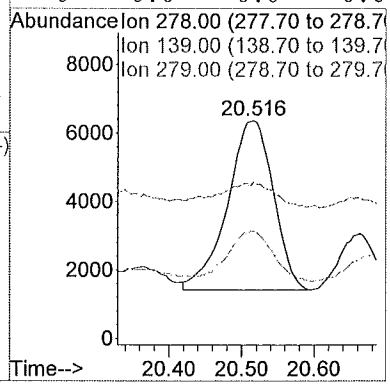


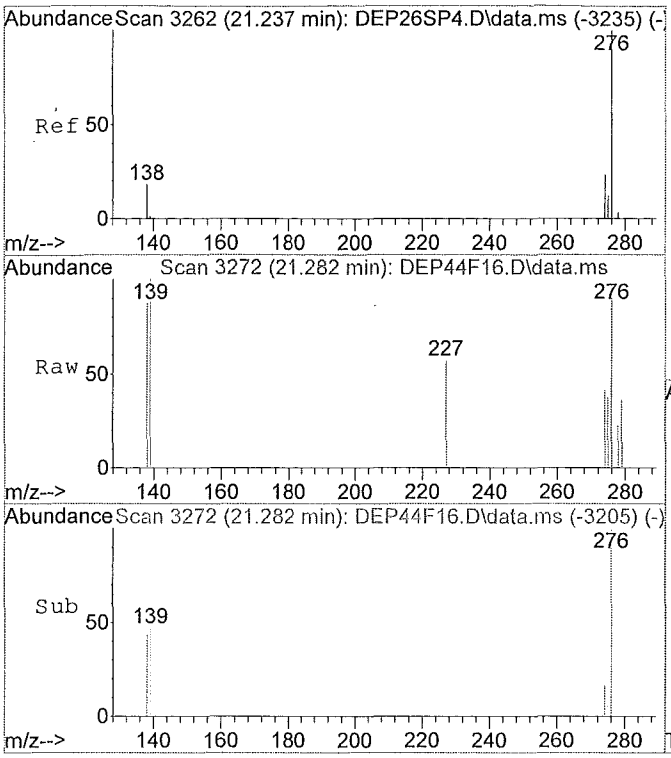


#24
Dibenzo(a,h)anthracene
Concen: 0.04 ug/ml
RT: 20.52 min Scan# 3100
Delta R.T. 0.04 min
Lab File: DEP44F16.D
Acq: 06/24/2015 13:03

Tgt Ion:278 Resp: 21762

Ion	Ratio	Lower	Upper
278	100		
139	2.2	0.0	0.0#
279	28.9	15.8	29.3
0	0.0	0.0	0.0

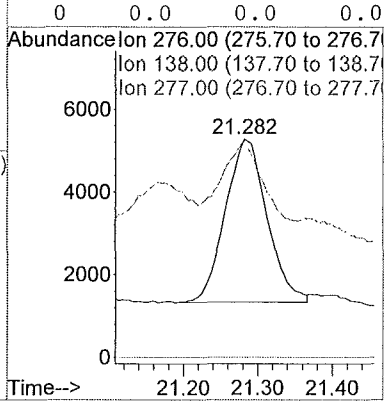




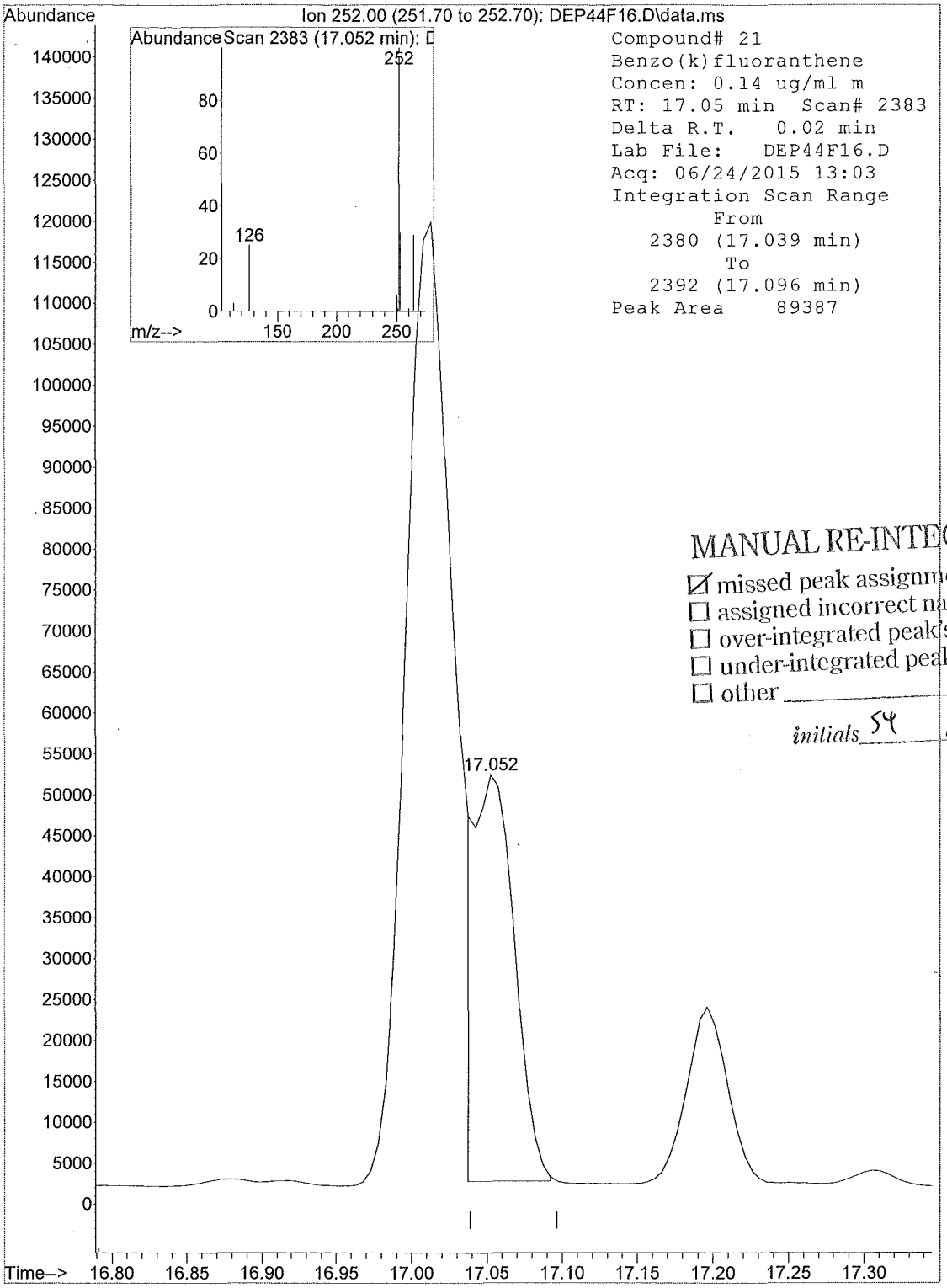
#25
Benzo(g,h,i)perylene
Concen: 0.03 ug/ml
RT: 21.28 min Scan# 3272
Delta R.T. 0.07 min
Lab File: DEP44F16.D
Acq: 06/24/2015 13:03

Tgt Ion:276 Resp: 15390

Ion	Ratio	Lower	Upper
276	100		
138	43.0	16.2	30.0#
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

☑ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

initials SY *date* 6/25/15

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M95

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725017

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DEP45F17

Extraction: (Type) SONC

% Moisture: 8.0 Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

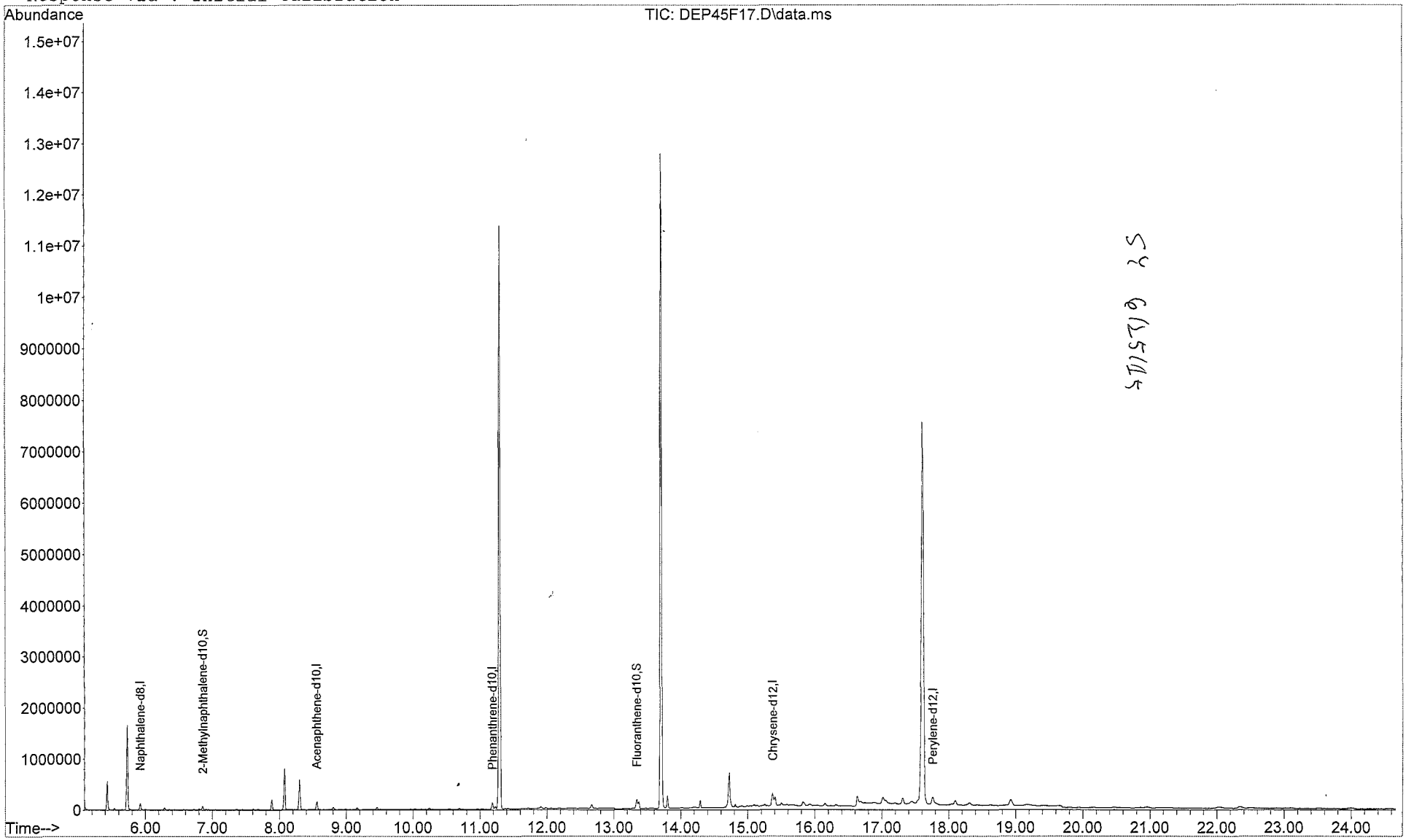
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.6	U
91-57-6	2-Methylnaphthalene	0.87	J
208-96-8	Acenaphthylene	1.2	J
83-32-9	Acenaphthene	3.6	U
86-73-7	Fluorene	3.6	U
87-86-5	Pentachlorophenol	7.2	U
85-01-8	Phenanthrene	3.0	J
120-12-7	Anthracene	1.3	J
206-44-0	Fluoranthene	6.5	
129-00-0	Pyrene	7.8	
56-55-3	Benzo(a)anthracene	5.1	
218-01-9	Chrysene	6.9	
205-99-2	Benzo(b)fluoranthene	8.9	
207-08-9	Benzo(k)fluoranthene	2.7	J
50-32-8	Benzo(a)pyrene	4.3	
193-39-5	Indeno(1,2,3-cd)pyrene	2.8	J
53-70-3	Dibenzo(a,h)anthracene	0.77	J
191-24-2	Benzo(g,h,i)perylene	3.6	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP45F17.D Vial: 41
Acq On : 06/24/2015 13:33 Operator: DJC
Sample : 1515725017 F9M95 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 25 10:38:06 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



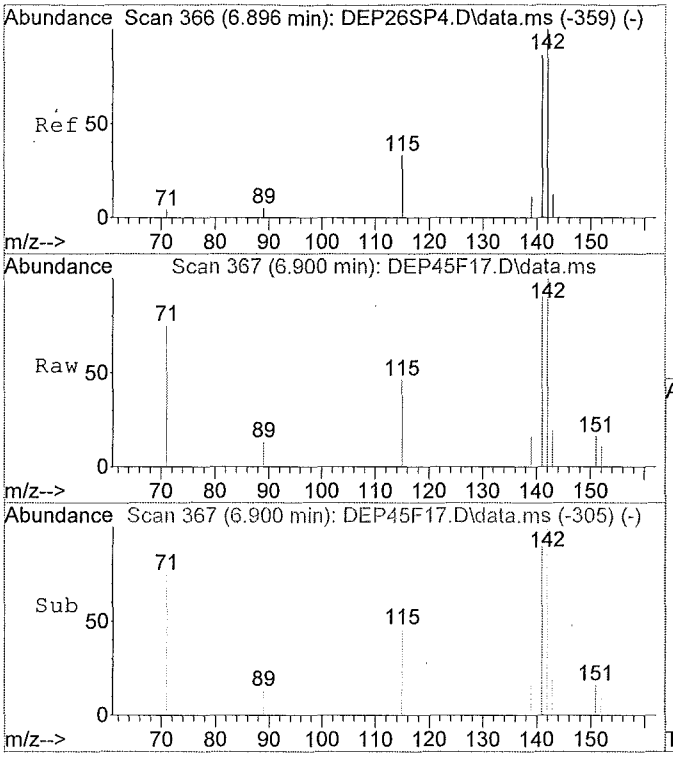
Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP45F17.D Vial: 41
Acq On : 06/24/2015 13:33 Operator: DJC
Sample : 1515725017 F9M95 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 10:38:06 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Qvalue
1) Naphthalene-d8	5.92	136	143802	0.40 ug/ml	
5) Acenaphthene-d10	8.56	164	105997	0.40 ug/ml	
9) Phenanthrene-d10	11.18	188	177078	0.40 ug/ml	
15) Chrysene-d12	15.37	240	219835	0.40 ug/ml	
19) Perylene-d12	17.76	264	211548	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.86	152	79044	0.341ug/mL	
13) Fluoranthene-d10	13.34	212	194328	0.401ug/mL	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	6.90	142	5872	0.024ug/ml	93
6) Acenaphthylene	8.32	152	15955	0.034ug/ml	78
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.23	178	41989	0.082ug/ml	98
12) Anthracene	11.32	178	18282	0.037ug/ml	78
14) Fluoranthene	13.37	202	105368	0.182ug/ml	70
16) Pyrene	13.73	202	149210	0.216ug/ml	1
17) Benzo(a)anthracene	15.35	228	82441	0.141ug/ml	87
18) Chrysene	15.40	228	119150	0.192ug/ml	91
20) Benzo(b)fluoranthene	17.01	252	162570	0.247ug/ml	95
21) Benzo(k)fluoranthene	17.06	252	50782	0.074ug/ml m SY 6/25/15	94
22) Benzo(a)pyrene	17.65	252	74598	0.118ug/ml	90
23) Indeno(1,2,3-c,d)pyrene	20.46	276	43180	0.078ug/ml	100
24) Dibenzo(a,h)anthracene	20.53	278	13104	0.021ug/ml	76
25) Benzo(g,h,i)perylene	0.00	276		Not Detected	

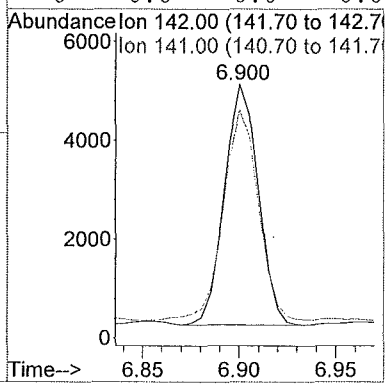
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

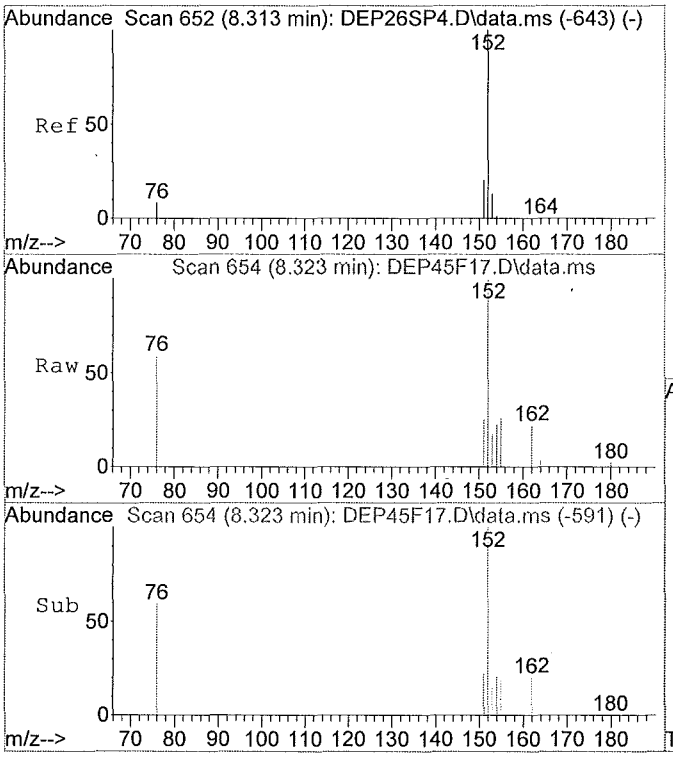


#4
2-Methylnaphthalene
Concen: 0.02 ug/ml
RT: 6.90 min Scan# 367
Delta R.T. 0.00 min
Lab File: DEP45F17.D
Acq: 06/24/2015 13:33

Tgt Ion:142 Resp: 5872

Ion	Ratio	Lower	Upper
142	100		
141	93.4	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

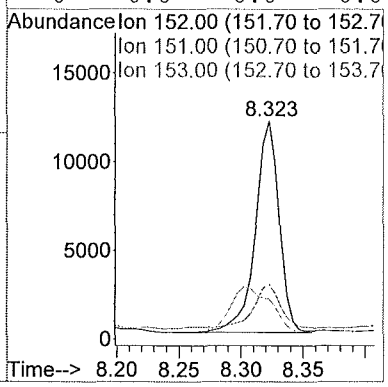


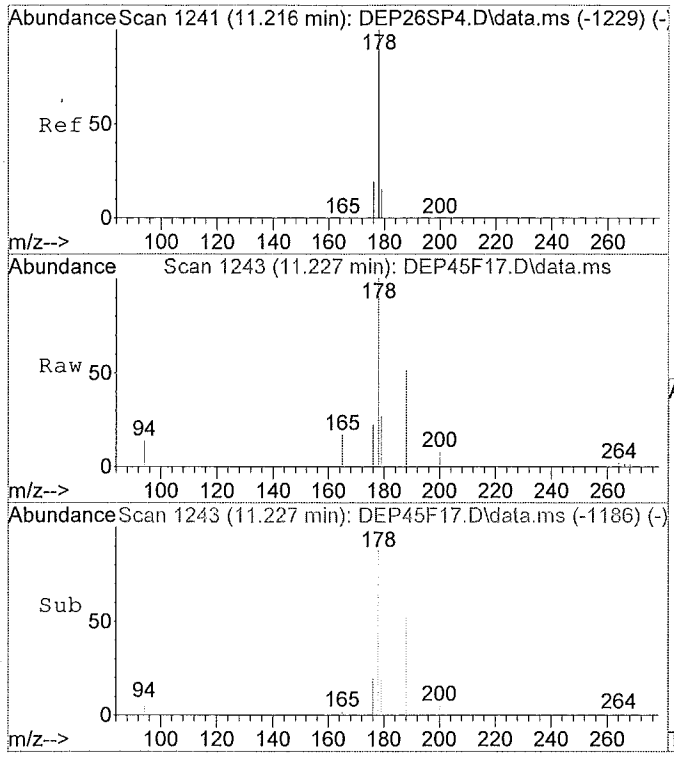


#6
Acenaphthylene
Concen: 0.03 ug/ml
RT: 8.32 min Scan# 654
Delta R.T. 0.01 min
Lab File: DEP45F17.D
Acq: 06/24/2015 13:33

Tgt Ion:152 Resp: 15955

Ion	Ratio	Lower	Upper
152	100		
151	22.9	15.5	28.7
153	35.1	8.8	16.4#
0	0.0	0.0	0.0

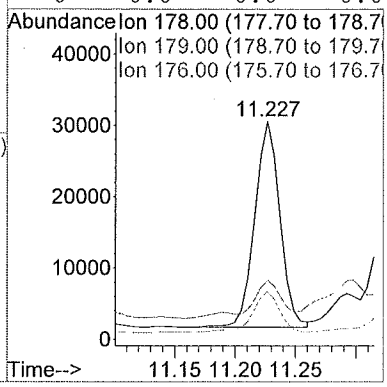


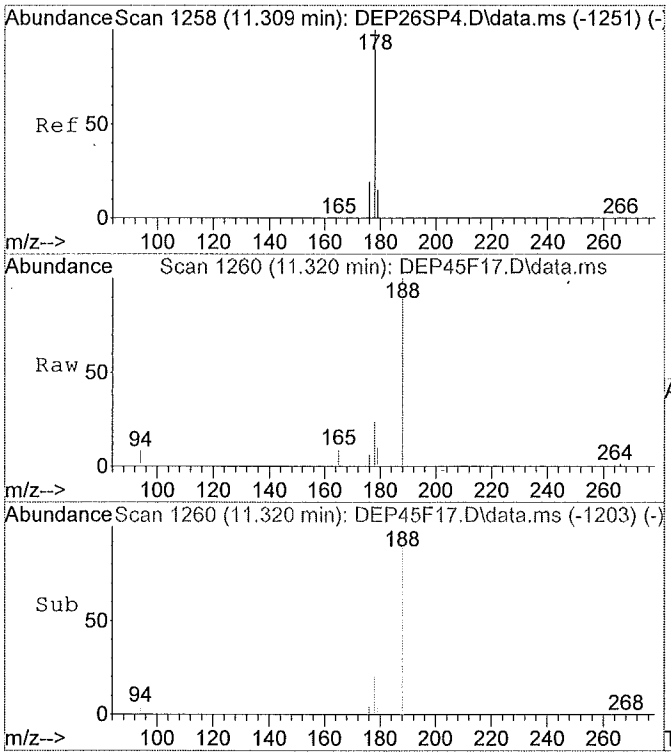


#11
Phenanthrene
Concen: 0.08 ug/ml
RT: 11.23 min Scan# 1243
Delta R.T. 0.01 min
Lab File: DEP45F17.D
Acq: 06/24/2015 13:33

Tgt Ion:178 Resp: 41989

Ion	Ratio	Lower	Upper
178	100		
179	14.8	11.1	20.5
176	20.8	14.1	26.1
0	0.0	0.0	0.0

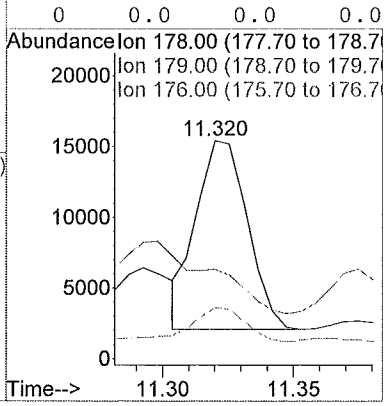


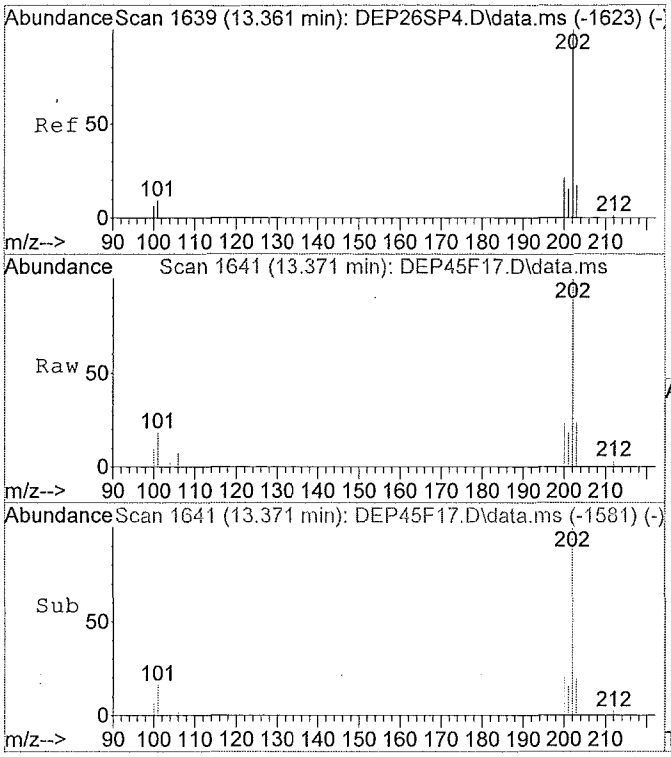


#12
Anthracene
Concen: 0.04 ug/ml
RT: 11.32 min Scan# 1260
Delta R.T. 0.01 min
Lab File: DEP45F17.D
Acq: 06/24/2015 13:33

Tgt Ion:178 Resp: 18282

Ion	Ratio	Lower	Upper
178	100		
179	0.0	11.6	21.6#
176	23.8	13.9	25.7
0	0.0	0.0	0.0

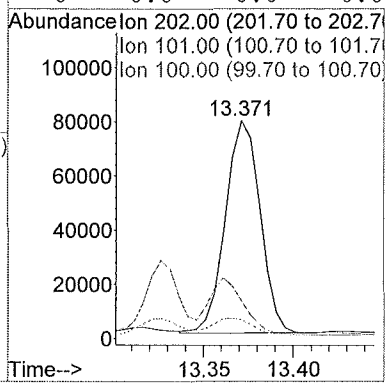


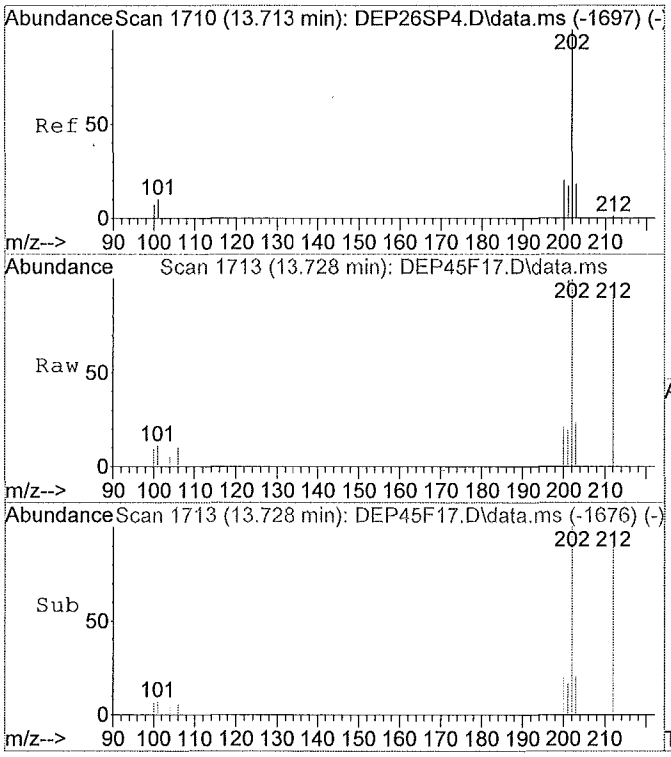


#14
Fluoranthene
Concen: 0.18 ug/ml
RT: 13.37 min Scan# 1641
Delta R.T. 0.01 min
Lab File: DEP45F17.D
Acq: 06/24/2015 13:33

Tgt Ion:202 Resp: 105368

Ion	Ratio	Lower	Upper
202	100		
101	25.7	9.4	17.6#
100	9.5	0.0	0.0#
0	0.0	0.0	0.0

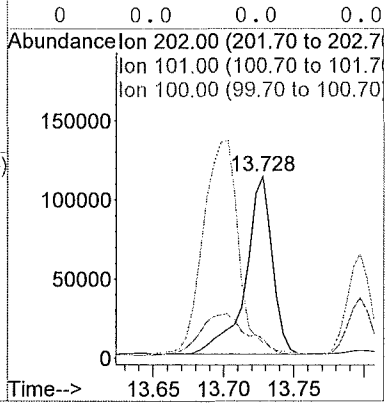




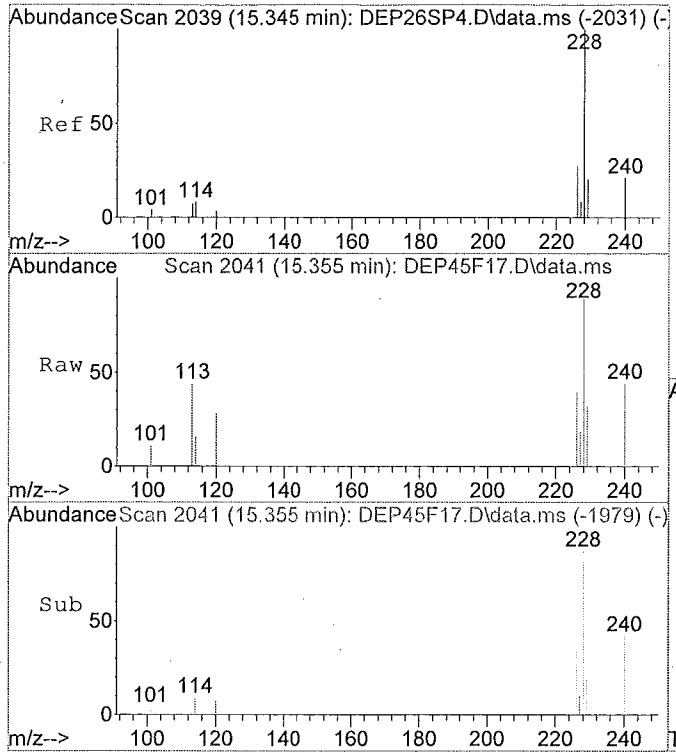
#16
Pyrene
Concen: 0.22 ug/ml
RT: 13.73 min Scan# 1713
Delta R.T. 0.01 min
Lab File: DEP45F17.D
Acq: 06/24/2015 13:33

Tgt Ion:202 Resp: 149210

Ion	Ratio	Lower	Upper
202	100		
101	43.0	10.6	19.6#
100	163.2	9.4	17.4#
0	0.0	0.0	0.0



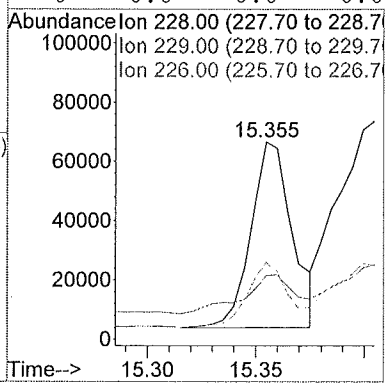
001249

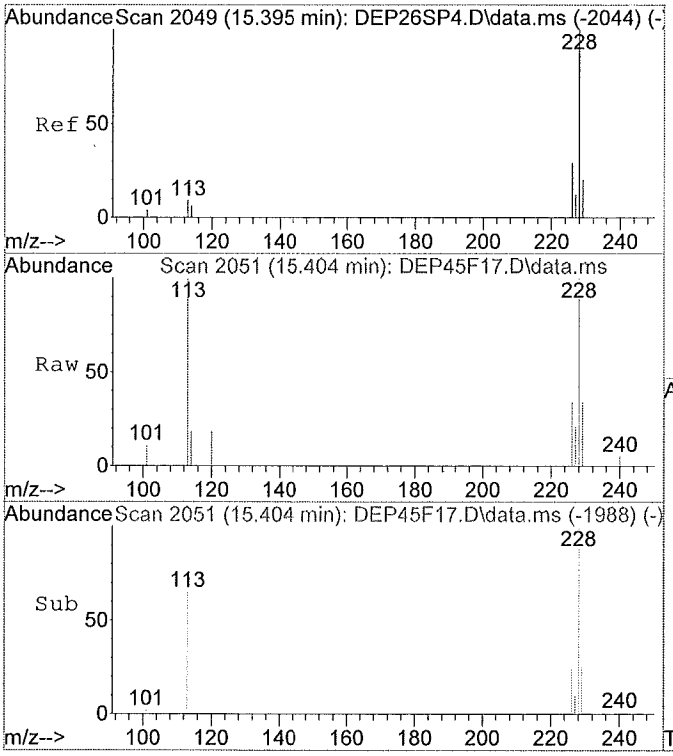


#17
Benzo(a)anthracene
Concen: 0.14 ug/ml
RT: 15.35 min Scan# 2041
Delta R.T. 0.01 min
Lab File: DEP45F17.D
Acq: 06/24/2015 13:33

Tgt Ion:228 Resp: 82441

Ion	Ratio	Lower	Upper
228	100		
229	27.2	14.5	26.9#
226	33.1	18.5	34.3
0	0.0	0.0	0.0

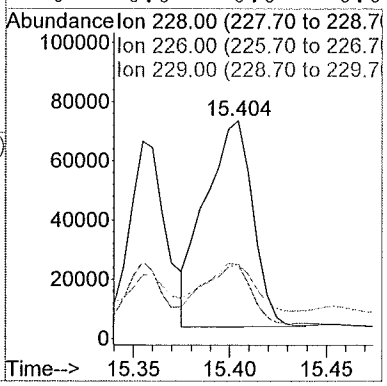


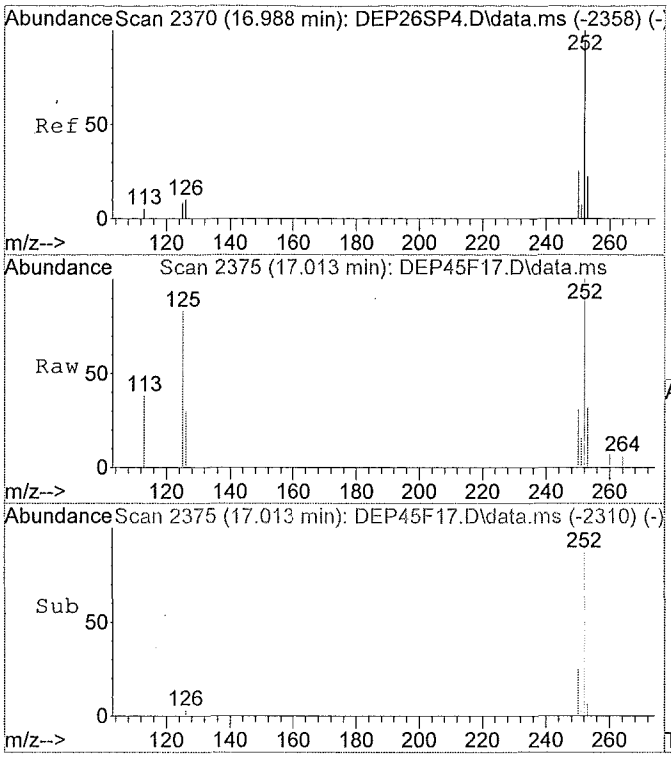


#18
Chrysene
Concen: 0.19 ug/ml
RT: 15.40 min Scan# 2051
Delta R.T. 0.01 min
Lab File: DEP45F17.D
Acq: 06/24/2015 13:33

Tgt Ion:228 Resp: 119150

Ion	Ratio	Lower	Upper
228	100		
226	33.8	19.7	36.7
229	24.4	14.5	26.9
0	0.0	0.0	0.0

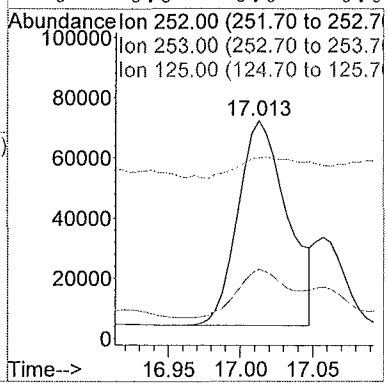


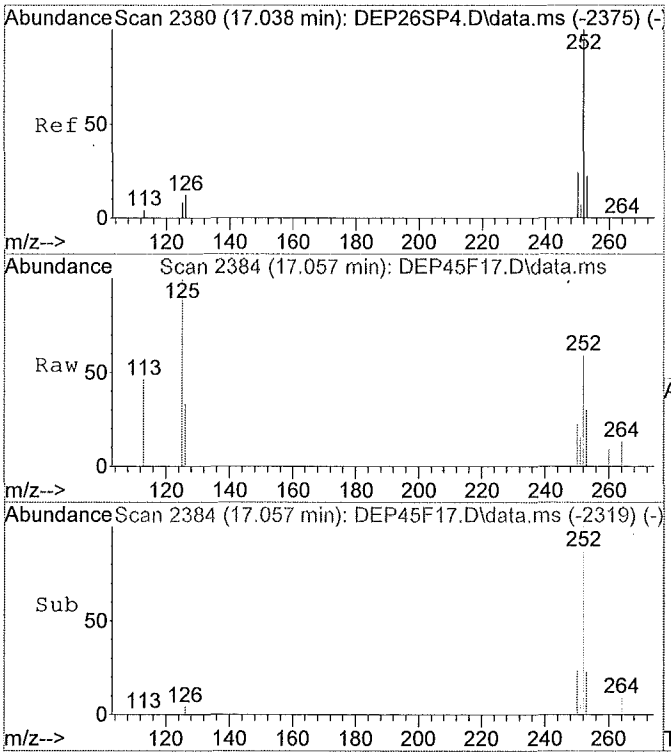


#20
Benzo(b)fluoranthene
Concen: 0.25 ug/ml
RT: 17.01 min Scan# 2375
Delta R.T. 0.03 min
Lab File: DEP45F17.D
Acq: 06/24/2015 13:33

Tgt Ion:252 Resp: 162570

Ion	Ratio	Lower	Upper
252	100		
253	24.3	15.3	28.3
125	14.7	0.0	0.0#
0	0.0	0.0	0.0

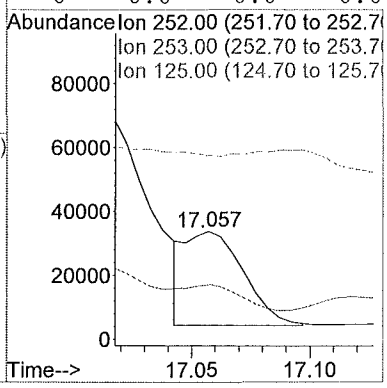


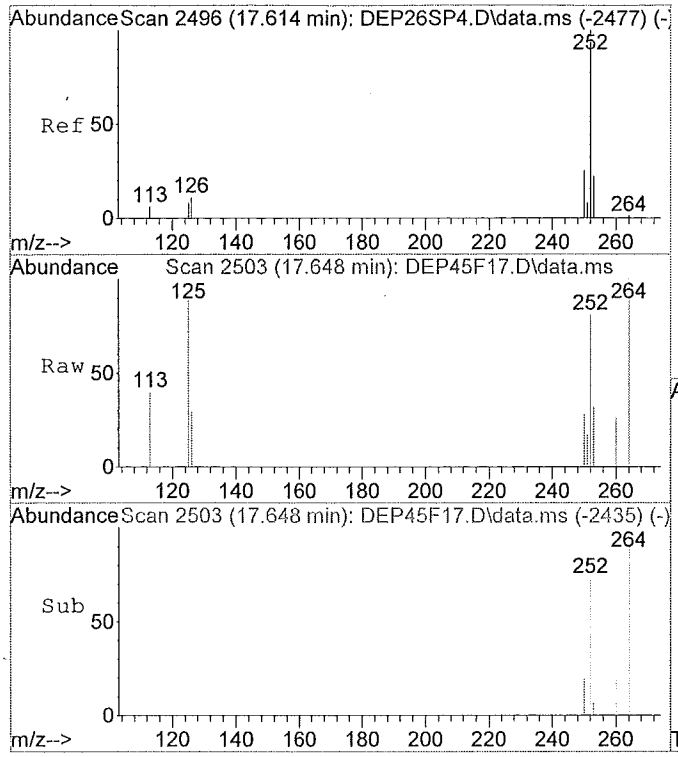


#21
Benzo(k)fluoranthene
Concen: 0.07 ug/ml m
RT: 17.06 min Scan# 2384
Delta R.T. 0.02 min
Lab File: DEP45F17.D
Acq: 06/24/2015 13:33

Tgt Ion:252 Resp: 50782

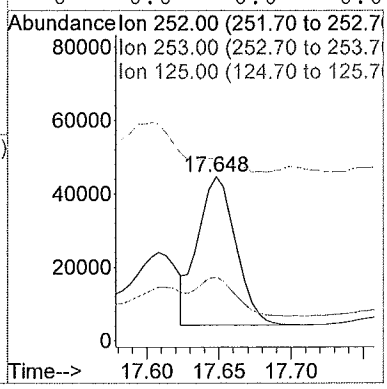
Ion	Ratio	Lower	Upper
252	100		
253	77.9	15.0	27.8#
125	47.0	0.0	0.0#
0	0.0	0.0	0.0

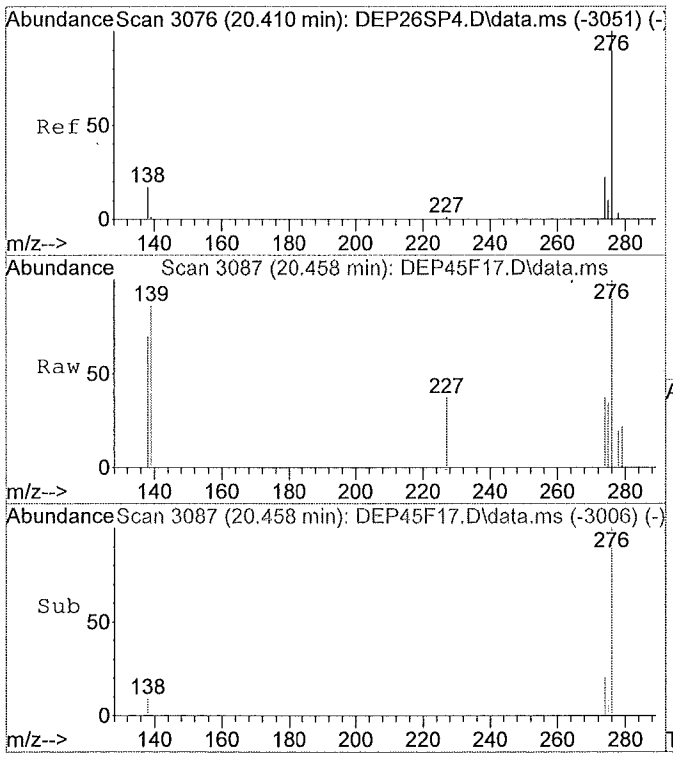




#22
Benzo(a)pyrene
Concen: 0.12 ug/ml
RT: 17.65 min Scan# 2503
Delta R.T. 0.04 min
Lab File: DEP45F17.D
Acq: 06/24/2015 13:33

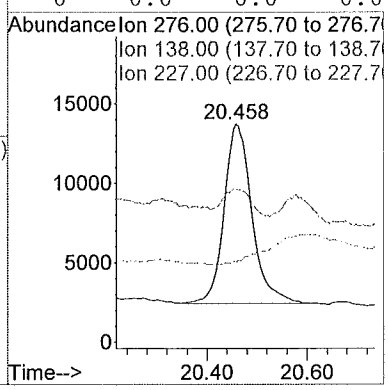
Tgt Ion:252	Resp:	74598	
Ion	Ratio	Lower	Upper
252	100		
253	26.0	15.0	27.8
125	0.0	0.0	0.0
0	0.0	0.0	0.0

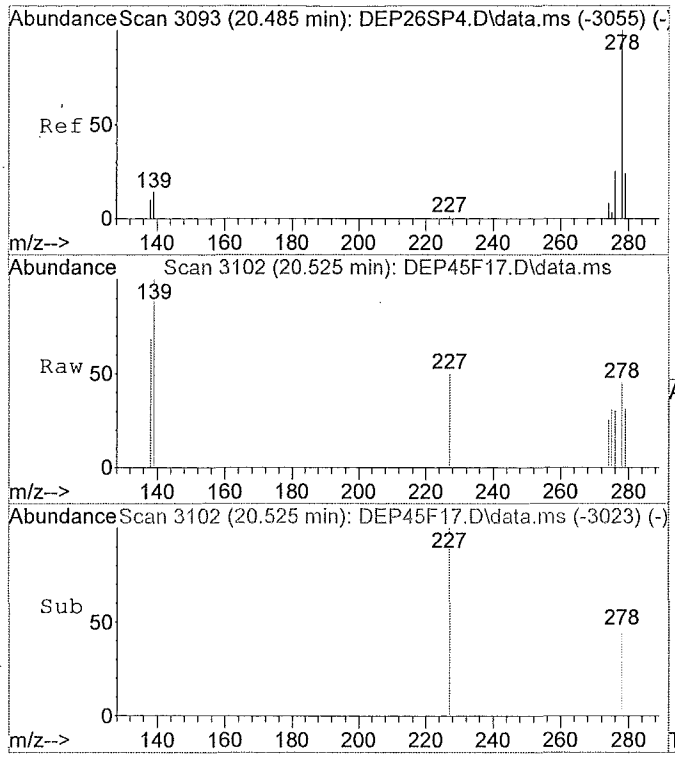




#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.08 ug/ml
RT: 20.46 min Scan# 3087
Delta R.T. 0.06 min
Lab File: DEP45F17.D
Acq: 06/24/2015 13:33

Tgt Ion:276	Resp:	43180	
Ion	Ratio	Lower	Upper
276	100		
138	14.8	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

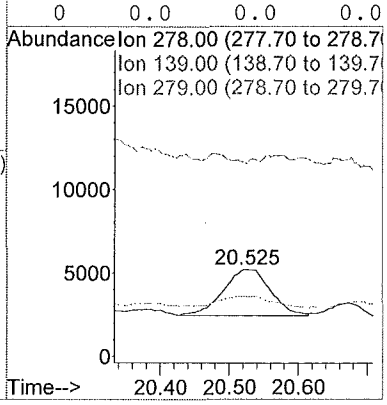




#24
Dibenzo(a,h)anthracene
Concen: 0.02 ug/ml
RT: 20.53 min Scan# 3102
Delta R.T. 0.05 min
Lab File: DEP45F17.D
Acq: 06/24/2015 13:33

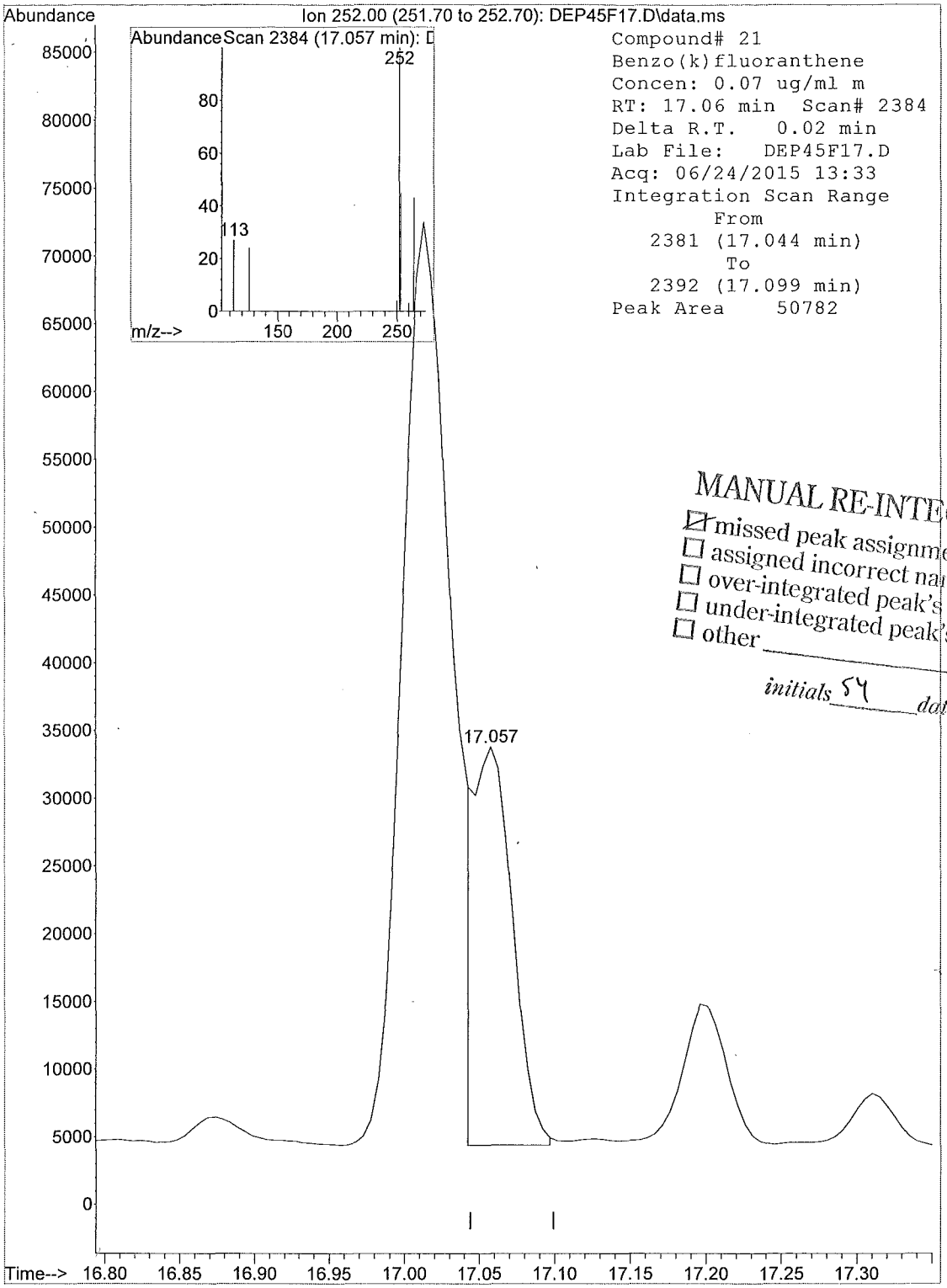
Tgt Ion:278 Resp: 13104

Ion	Ratio	Lower	Upper
278	100		
139	1.9	0.0	0.0#
279	11.0	15.8	29.3#
0	0.0	0.0	0.0



012417

M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

☑ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

initials SY *date* 6/25/15

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M96

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725018

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DEQ02F18

Extraction: (Type) SONC

% Moisture: 20. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/25/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.0

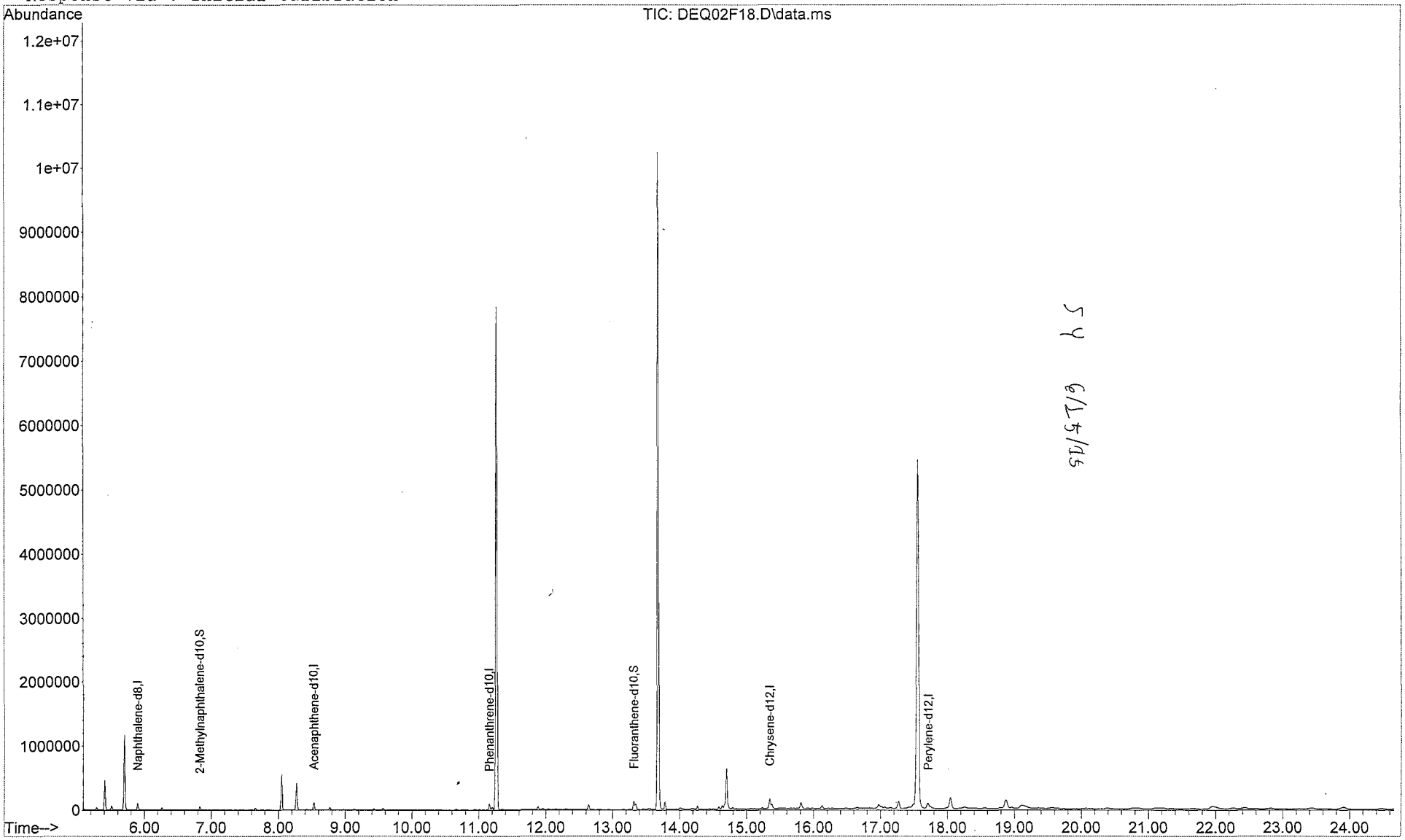
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	0.90	J
91-57-6	2-Methylnaphthalene	1.1	J
208-96-8	Acenaphthylene	0.99	J
83-32-9	Acenaphthene	4.1	U
86-73-7	Fluorene	4.1	U
87-86-5	Pentachlorophenol	8.3	U
85-01-8	Phenanthrene	4.3	
120-12-7	Anthracene	1.1	J
206-44-0	Fluoranthene	5.5	
129-00-0	Pyrene	7.9	
56-55-3	Benzo(a)anthracene	3.7	J
218-01-9	Chrysene	6.3	
205-99-2	Benzo(b)fluoranthene	6.7	
207-08-9	Benzo(k)fluoranthene	1.8	J
50-32-8	Benzo(a)pyrene	3.4	J
193-39-5	Indeno(1,2,3-cd)pyrene	4.4	
53-70-3	Dibenzo(a,h)anthracene	1.1	J
191-24-2	Benzo(g,h,i)perylene	0.96	J

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\25JUN15\DEQ02F18.D Vial: 42
Acq On : 06/25/2015 09:33 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 25 12:07:51 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



6/15/15

Quantitation Report

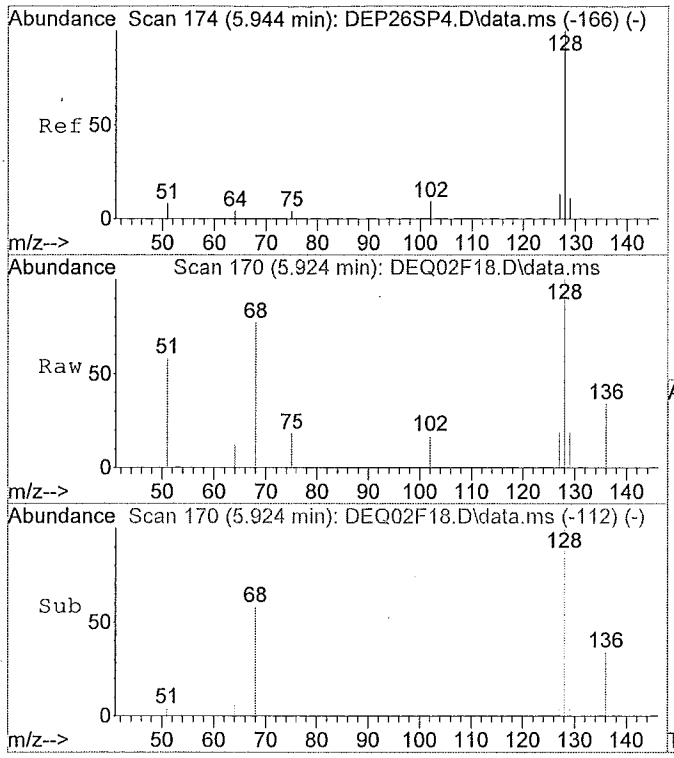
Data File : C:\msdchem\1\data\F9...IM\25JUN15\DEQ02F18.D Vial: 42
Acq On : 06/25/2015 09:33 Operator: DJC
Sample : 1515725018 F9M96 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 12:07:51 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.90	136	110978	0.40 ug/ml	
5) Acenaphthene-d10	8.53	164	77448	0.40 ug/ml	
9) Phenanthrene-d10	11.16	188	125676	0.40 ug/ml	
15) Chrysene-d12	15.34	240	133118	0.40 ug/ml	
19) Perylene-d12	17.71	264	150014	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.83	152	56550	0.316ug/mL	
13) Fluoranthene-d10	13.32	212	129851	0.378ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.92	128	6273	0.022ug/ml	92
4) 2-Methylnaphthalene	6.88	142	4766	0.026ug/ml	99
6) Acenaphthylene	8.29	152	8117	0.024ug/ml	71
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.20	178	37745	0.104ug/ml	98
12) Anthracene	11.29	178	9069	0.026ug/ml	82
14) Fluoranthene	13.35	202	54719	0.133ug/ml	10
16) Pyrene	13.70	202	79530	0.190ug/ml	1
17) Benzo(a)anthracene	15.34	228	31755	0.089ug/ml	90
18) Chrysene	15.38	228	56795	0.151ug/ml	84
20) Benzo(b)fluoranthene	16.97	252	75960	0.162ug/ml	97
21) Benzo(k)fluoranthene	17.01	252	21022	0.043ug/ml m SY 6/25/15	96
22) Benzo(a)pyrene	17.59	252	36575	0.082ug/ml	92
23) Indeno(1,2,3-c,d)pyrene	20.39	276	41197	0.105ug/ml	100
24) Dibenzo(a,h)anthracene	20.45	278	11415	0.026ug/ml	98
25) Benzo(g,h,i)perylene	21.21	276	10180	0.023ug/ml	52

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

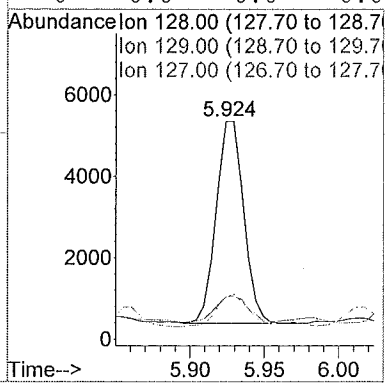
91254

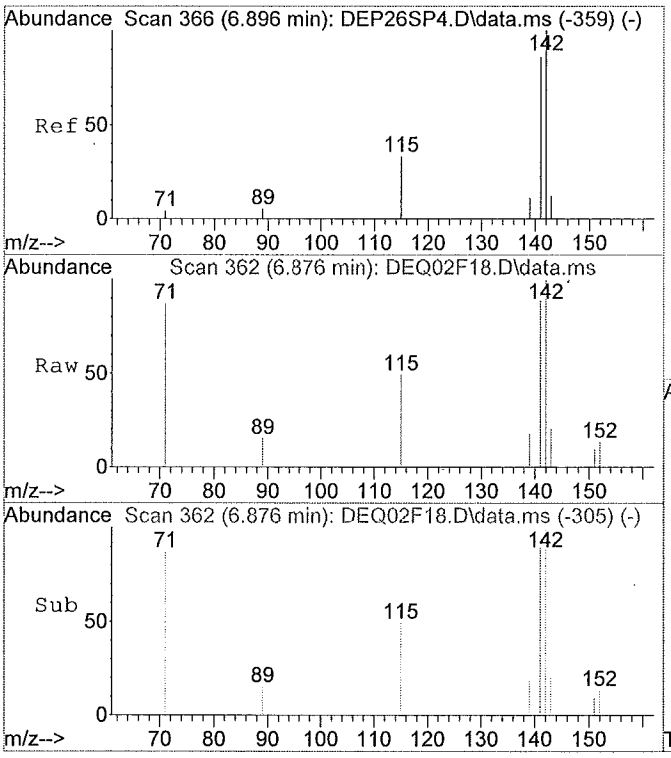


#2
Naphthalene
Concen: 0.02 ug/ml
RT: 5.92 min Scan# 170
Delta R.T. -0.01 min
Lab File: DEQ02F18.D
Acq: 06/25/2015 09:33

Tgt Ion:128 Resp: 6273

Ion	Ratio	Lower	Upper
128	100		
129	15.2	0.0	0.0#
127	19.2	11.1	20.5
0	0.0	0.0	0.0

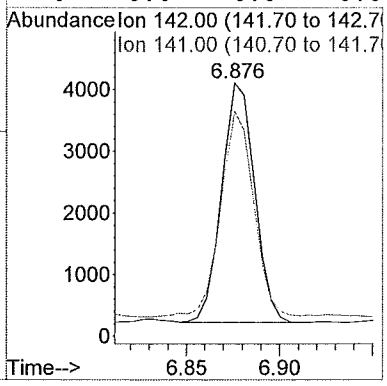


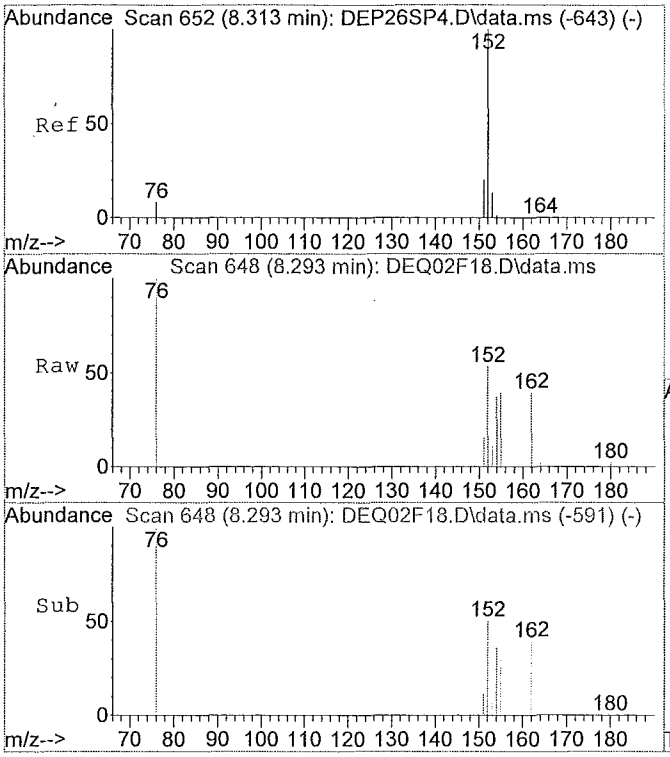


#4
2-Methylnaphthalene
Concen: 0.03 ug/ml
RT: 6.88 min Scan# 362
Delta R.T. -0.02 min
Lab File: DEQ02F18.D
Acq: 06/25/2015 09:33

Tgt Ion:142 Resp: 4766

Ion	Ratio	Lower	Upper
142	100		
141	86.8	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

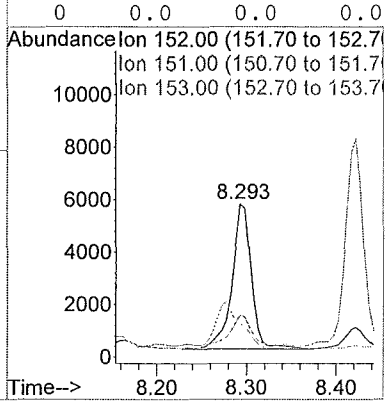


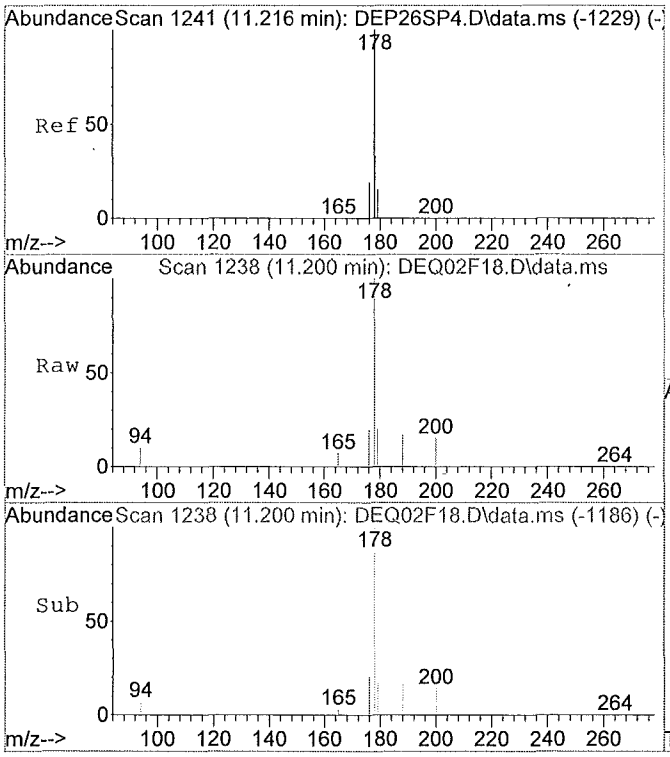


#6
Acenaphthylene
Concen: 0.02 ug/ml
RT: 8.29 min Scan# 648
Delta R.T. -0.01 min
Lab File: DEQ02F18.D
Acq: 06/25/2015 09:33

Tgt Ion:152 Resp: 8117

Ion	Ratio	Lower	Upper
152	100		
151	21.0	15.5	28.7
153	42.1	8.8	16.4#
0	0.0	0.0	0.0

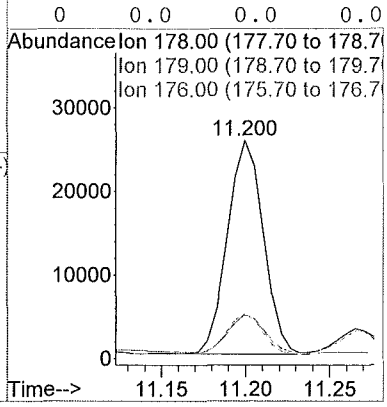


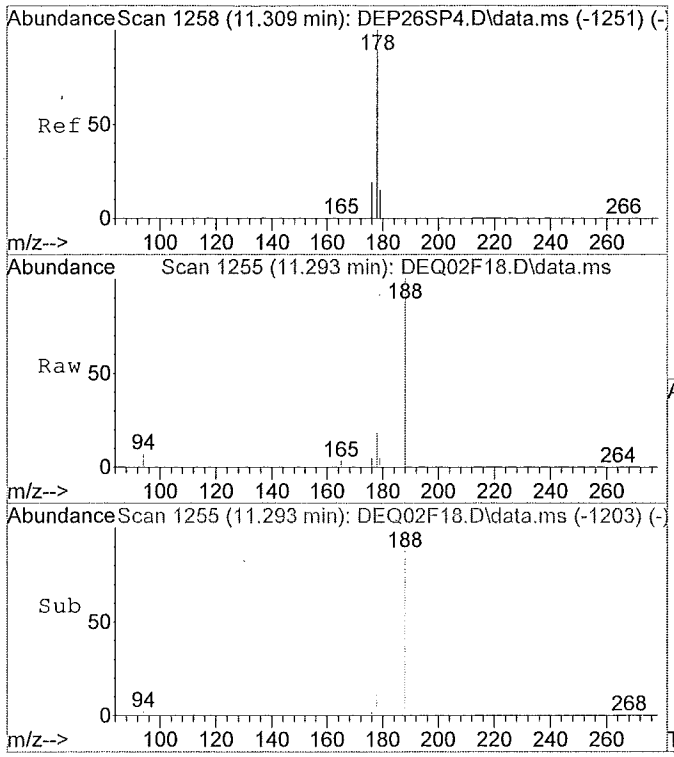


#11
Phenanthrene
Concen: 0.10 ug/ml
RT: 11.20 min Scan# 1238
Delta R.T. -0.02 min
Lab File: DEQ02F18.D
Acq: 06/25/2015 09:33

Tgt Ion:178 Resp: 37745

Ion	Ratio	Lower	Upper
178	100		
179	17.7	11.1	20.5
176	19.8	14.1	26.1
0	0.0	0.0	0.0

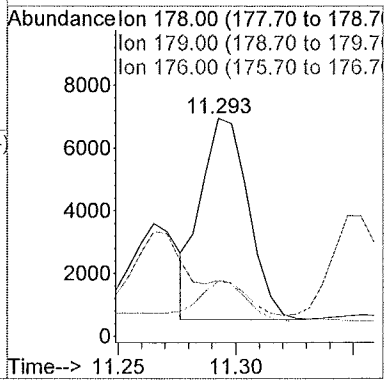


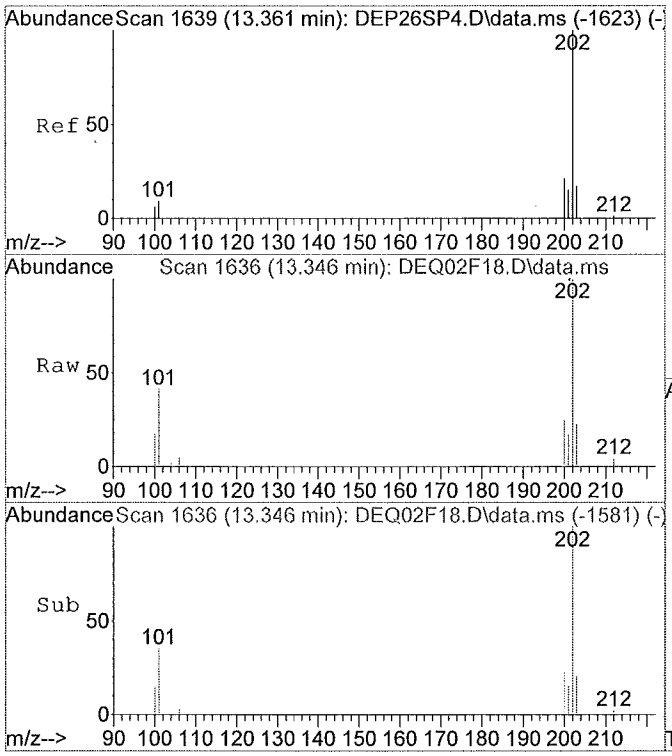


#12
Anthracene
Concen: 0.03 ug/ml
RT: 11.29 min Scan# 1255
Delta R.T. -0.02 min
Lab File: DEQ02F18.D
Acq: 06/25/2015 09:33

Tgt Ion:178 Resp: 9069

Ion	Ratio	Lower	Upper
178	100		
179	0.0	11.6	21.6#
176	19.3	13.9	25.7
0	0.0	0.0	0.0

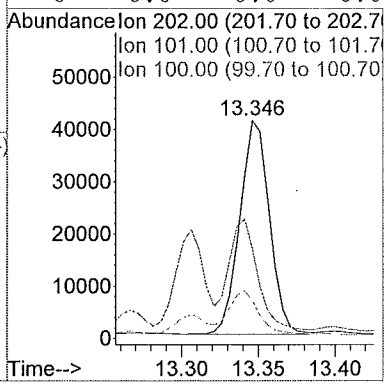


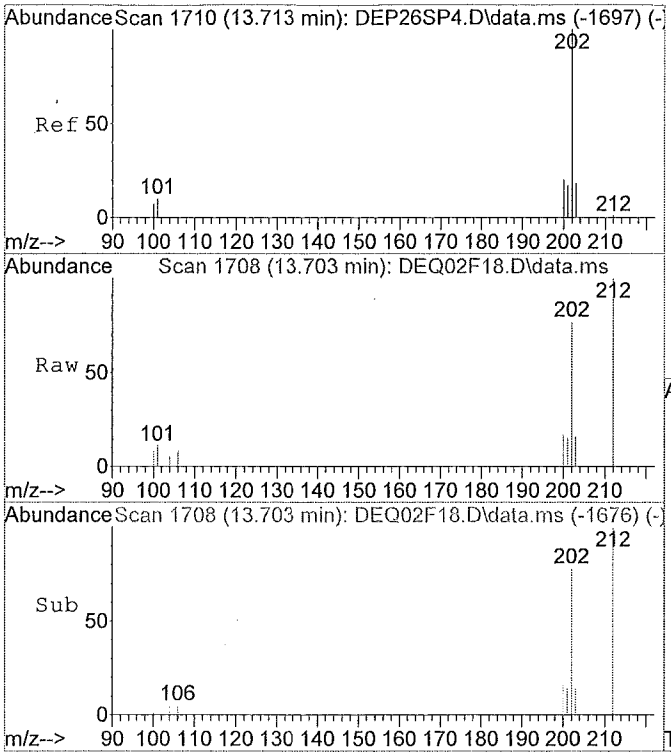


#14
Fluoranthene
Concen: 0.13 ug/ml
RT: 13.35 min Scan# 1636
Delta R.T. -0.01 min
Lab File: DEQ02F18.D
Acq: 06/25/2015 09:33

Tgt Ion:202 Resp: 54719

Ion	Ratio	Lower	Upper
202	100		
101	49.7	9.4	17.6#
100	21.4	0.0	0.0#
0	0.0	0.0	0.0

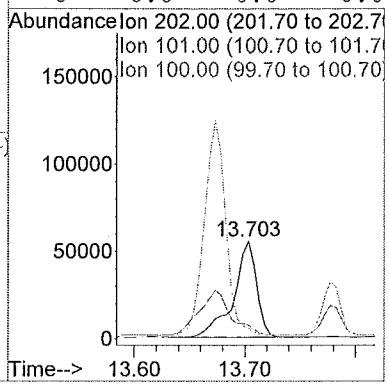


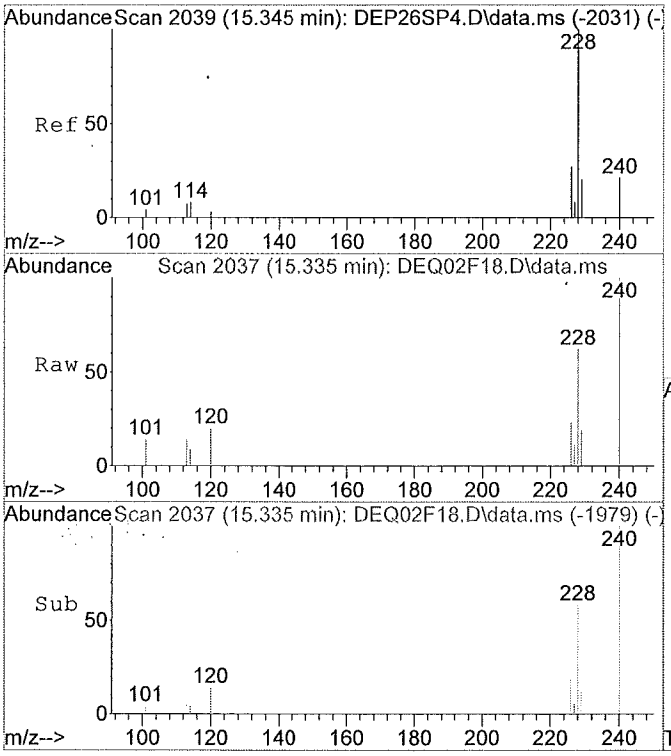


#16
Pyrene
Concen: 0.19 ug/ml
RT: 13.70 min Scan# 1708
Delta R.T. -0.01 min
Lab File: DEQ02F18.D
Acq: 06/25/2015 09:33

Tgt Ion:202 Resp: 79530

Ion	Ratio	Lower	Upper
202	100		
101	64.5	10.6	19.6#
100	216.4	9.4	17.4#
0	0.0	0.0	0.0

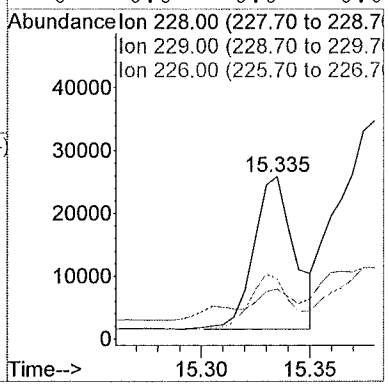




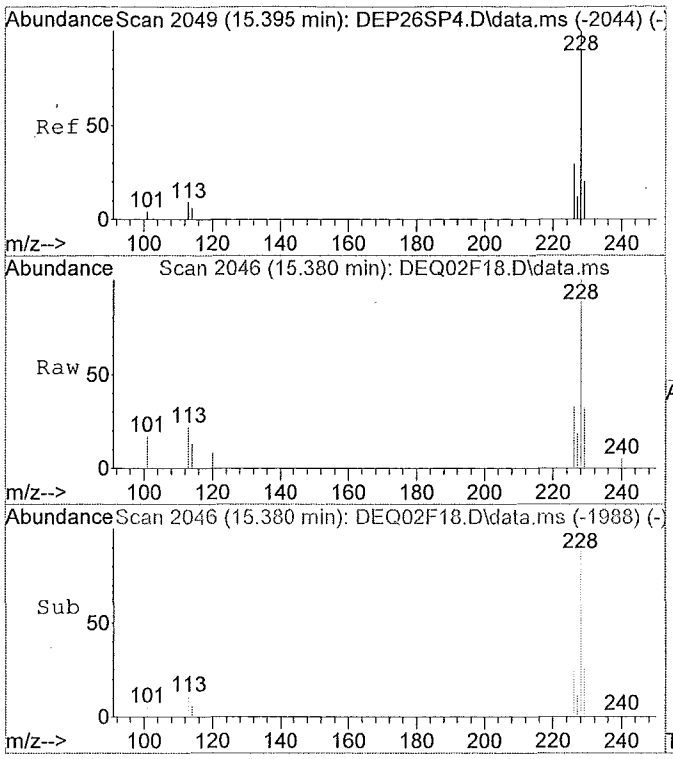
#17
Benzo(a)anthracene
Concen: 0.09 ug/ml
RT: 15.34 min Scan# 2037
Delta R.T. -0.01 min
Lab File: DEQ02F18.D
Acq: 06/25/2015 09:33

Tgt Ion:228 Resp: 31755

Ion	Ratio	Lower	Upper
228	100		
229	19.1	14.5	26.9
226	34.3	18.5	34.3
0	0.0	0.0	0.0



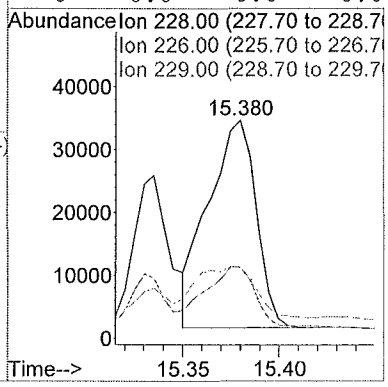
01255

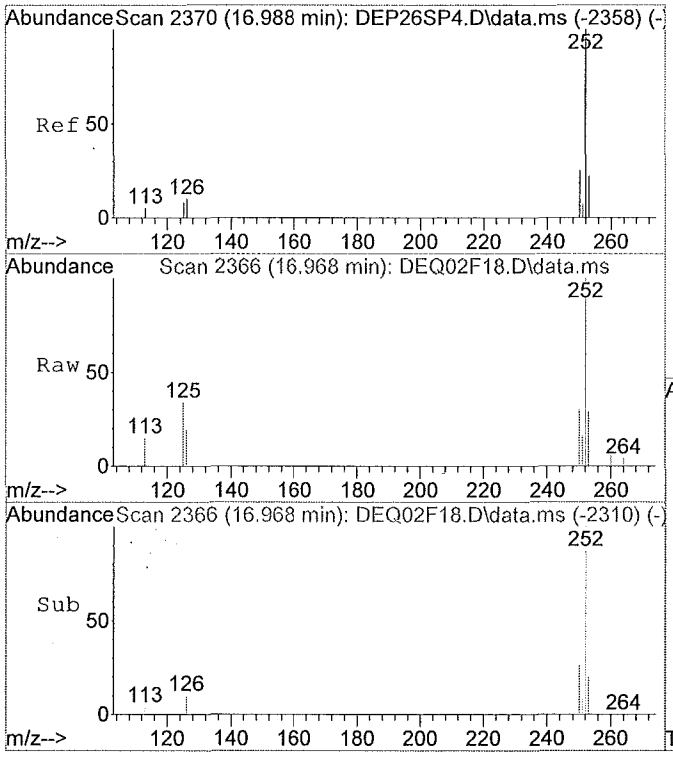


#18
Chrysene
Concen: 0.15 ug/ml
RT: 15.38 min Scan# 2046
Delta R.T. -0.01 min
Lab File: DEQ02F18.D
Acq: 06/25/2015 09:33

Tgt Ion:228 Resp: 56795

Ion	Ratio	Lower	Upper
228	100		
226	33.2	19.7	36.7
229	31.9	14.5	26.9#
0	0.0	0.0	0.0

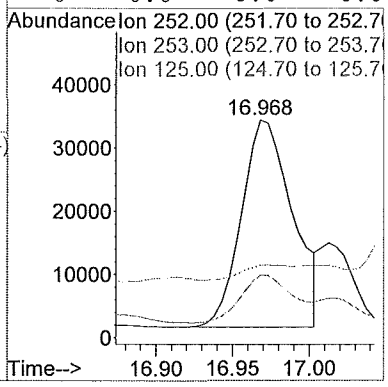


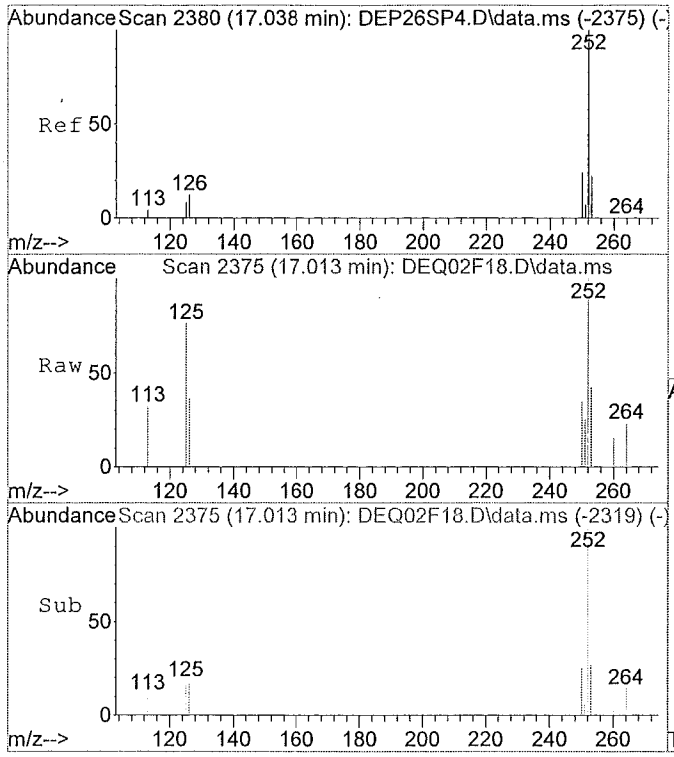


#20
Benzo(b)fluoranthene
Concen: 0.16 ug/ml
RT: 16.97 min Scan# 2366
Delta R.T. -0.02 min
Lab File: DEQ02F18.D
Acq: 06/25/2015 09:33

Tgt Ion:252 Resp: 75960

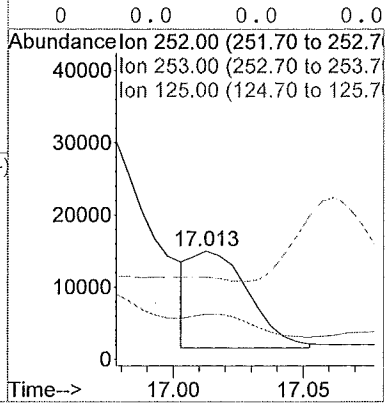
Ion	Ratio	Lower	Upper
252	100		
253	23.4	15.3	28.3
125	6.5	0.0	0.0#
0	0.0	0.0	0.0

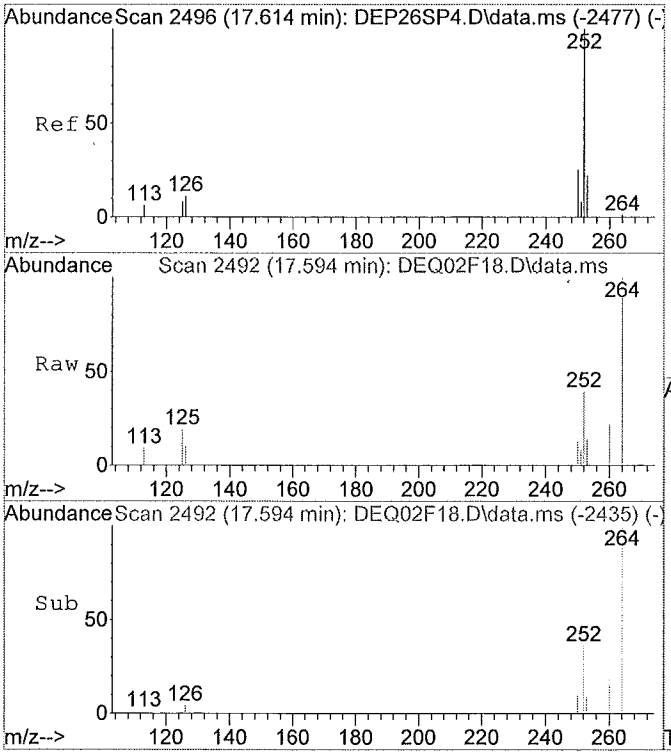




#21
Benzo(k)fluoranthene
Concen: 0.04 ug/ml m
RT: 17.01 min Scan# 2375
Delta R.T. -0.02 min
Lab File: DEQ02F18.D
Acq: 06/25/2015 09:33

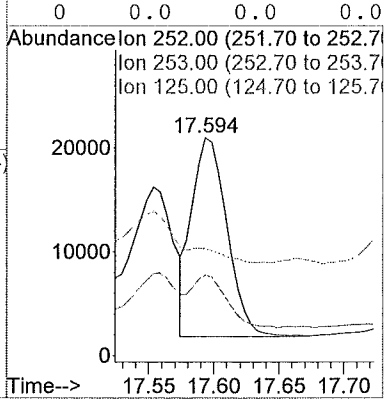
Tgt Ion:252	Resp:	21022	
Ion	Ratio	Lower	Upper
252	100		
253	84.7	15.0	27.8#
125	23.6	0.0	0.0#
0	0.0	0.0	0.0



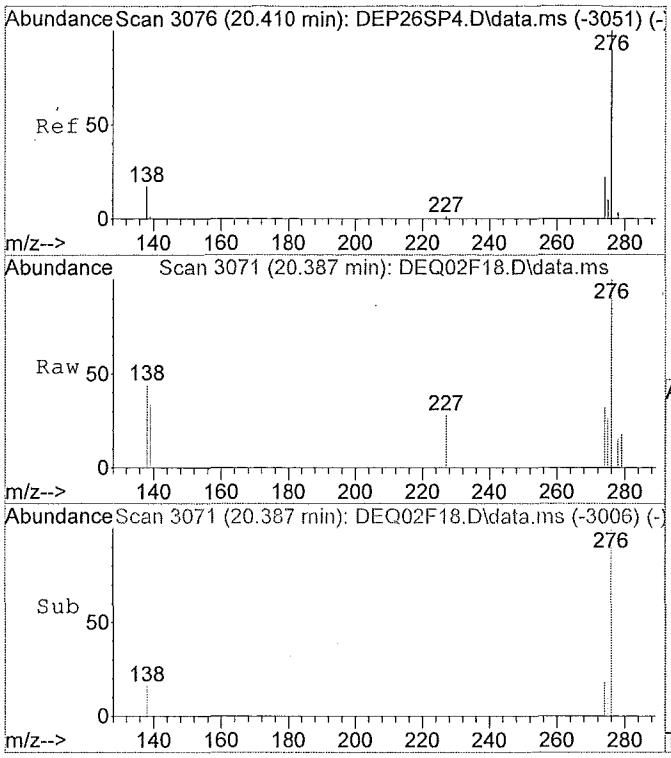


#22
Benzo(a)pyrene
Concen: 0.08 ug/ml
RT: 17.59 min Scan# 2492
Delta R.T. -0.01 min
Lab File: DEQ02F18.D
Acq: 06/25/2015 09:33

Tgt Ion:252	Resp:	36575	
Ion	Ratio	Lower	Upper
252	100		
253	25.0	15.0	27.8
125	0.0	0.0	0.0
0	0.0	0.0	0.0



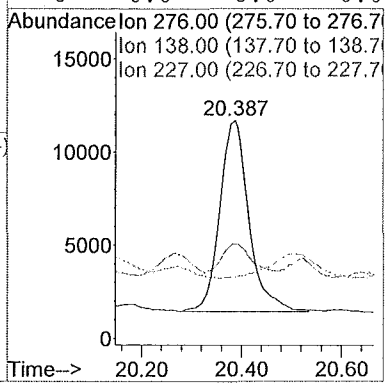
01257

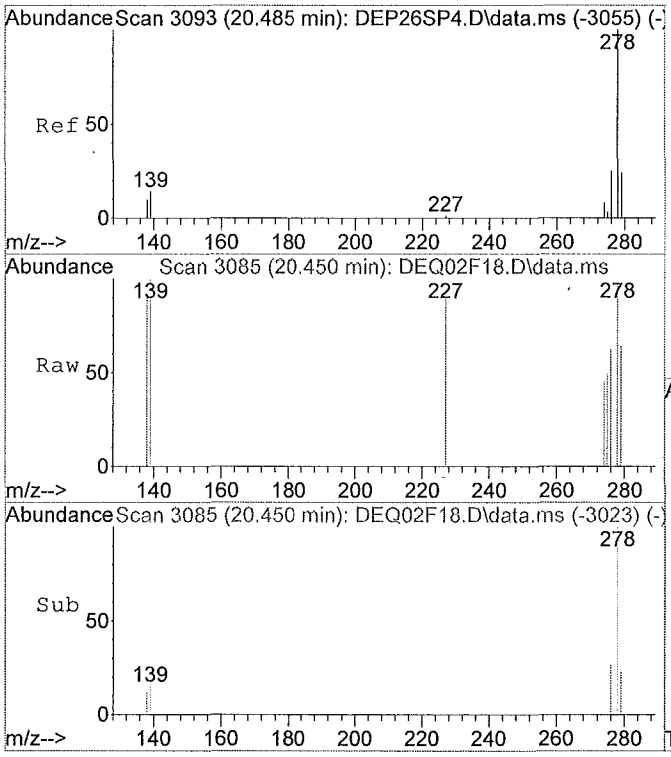


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.11 ug/ml
RT: 20.39 min Scan# 3071
Delta R.T. -0.01 min
Lab File: DEQ02F18.D
Acq: 06/25/2015 09:33

Tgt Ion:276 Resp: 41197

Ion	Ratio	Lower	Upper
276	100		
138	13.1	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

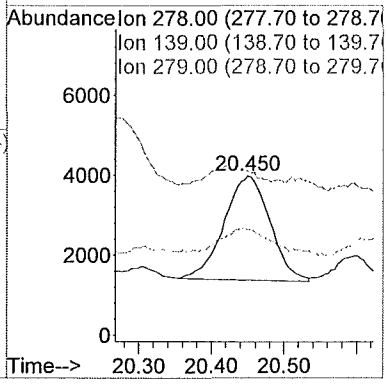


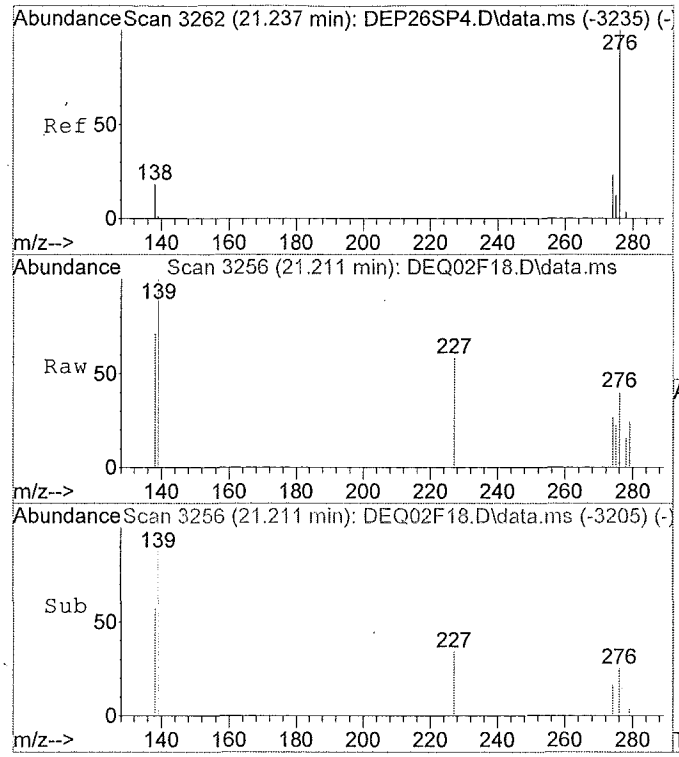


#24
Dibenzo(a,h)anthracene
Concen: 0.03 ug/ml
RT: 20.45 min Scan# 3085
Delta R.T. -0.02 min
Lab File: DEQ02F18.D
Acq: 06/25/2015 09:33

Tgt Ion:278 Resp: 11415

Ion	Ratio	Lower	Upper
278	100		
139	0.0	0.0	0.0
279	21.3	15.8	29.3
0	0.0	0.0	0.0

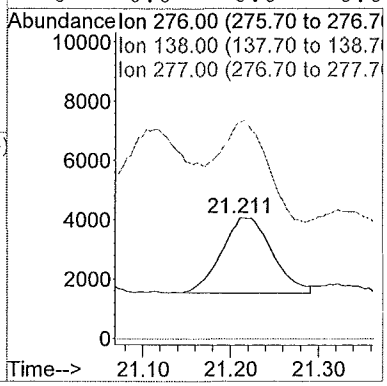




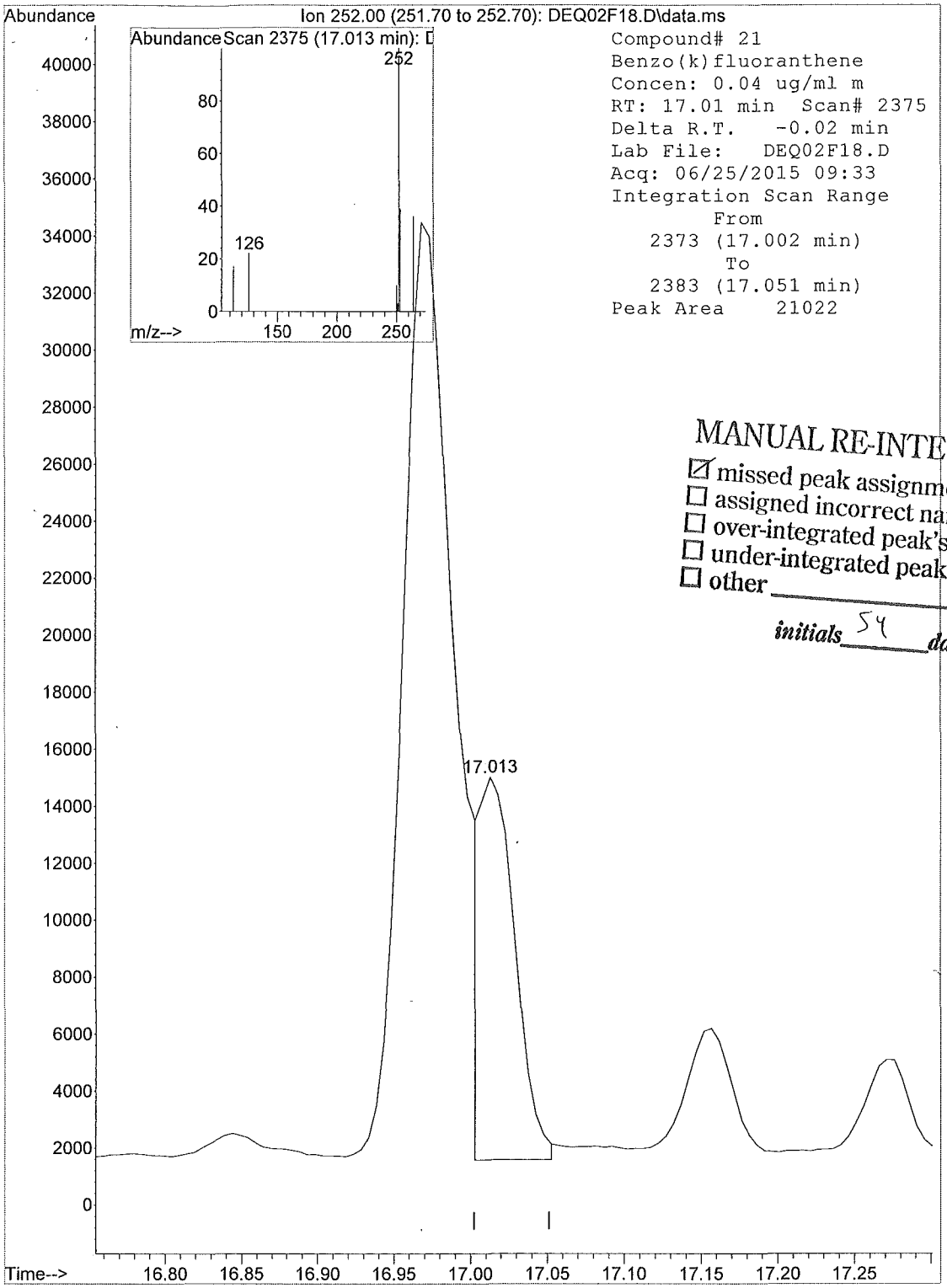
#25
Benzo(g,h,i)perylene
Concen: 0.02 ug/ml
RT: 21.21 min Scan# 3256
Delta R.T. -0.00 min
Lab File: DEQ02F18.D
Acq: 06/25/2015 09:33

Tgt Ion:276 Resp: 10180

Ion	Ratio	Lower	Upper
276	100		
138	0.0	16.2	30.0#
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



MANUAL INTEGRATION FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☑ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 6/25/15

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M97

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725019

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DEQ06F19

Extraction: (Type) SONC

% Moisture: 20. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/25/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 4.0

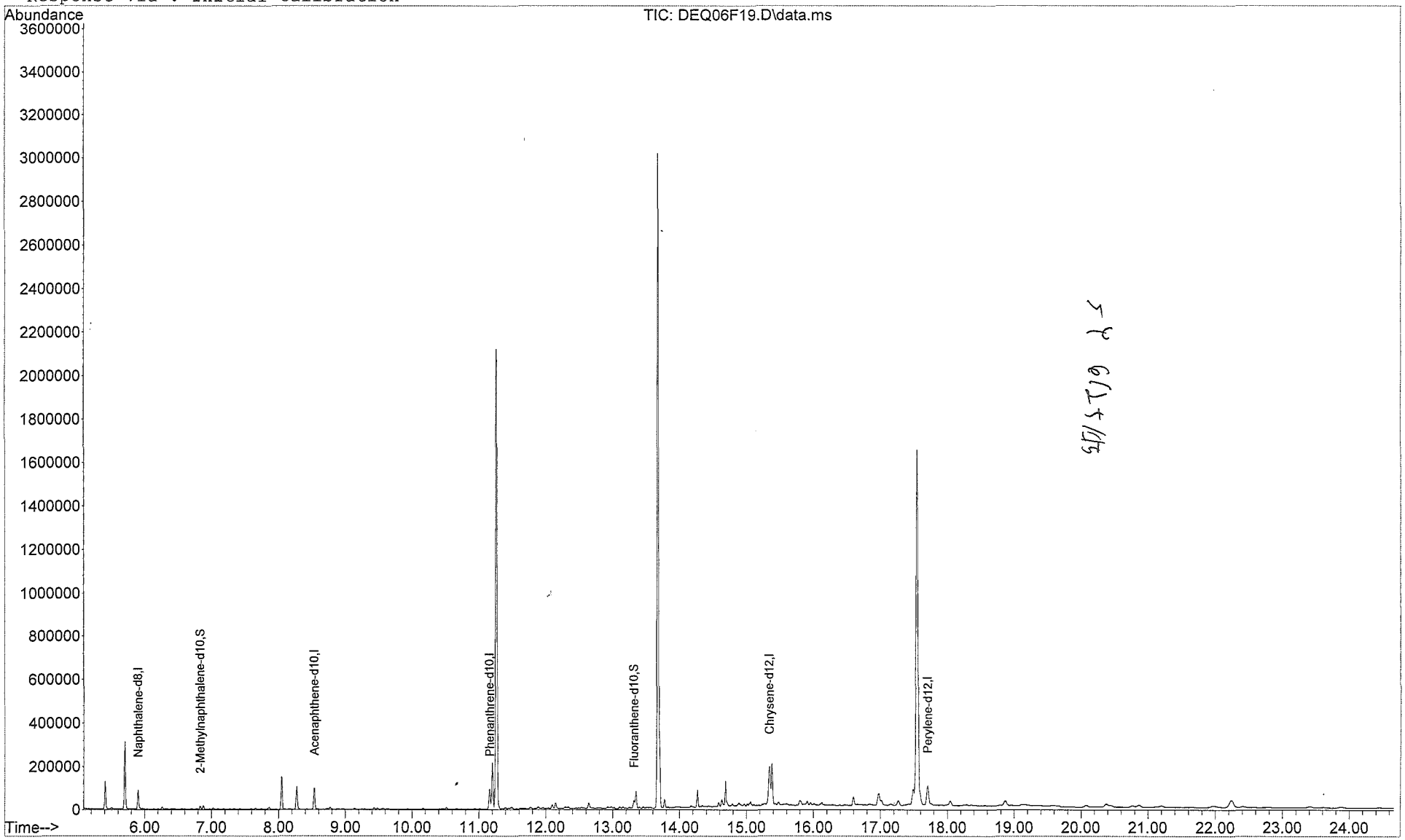
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	17.	U
91-57-6	2-Methylnaphthalene	8.5	J
208-96-8	Acenaphthylene	17.	U
83-32-9	Acenaphthene	17.	U
86-73-7	Fluorene	17.	U
87-86-5	Pentachlorophenol	4.7	J
85-01-8	Phenanthrene	100	
120-12-7	Anthracene	7.4	J
206-44-0	Fluoranthene	24.	
129-00-0	Pyrene	68.	
56-55-3	Benzo(a)anthracene	37.	
218-01-9	Chrysene	58.	
205-99-2	Benzo(b)fluoranthene	24.	
207-08-9	Benzo(k)fluoranthene	5.9	J
50-32-8	Benzo(a)pyrene	18.	
193-39-5	Indeno(1,2,3-cd)pyrene	15.	J
53-70-3	Dibenzo(a,h)anthracene	6.0	J
191-24-2	Benzo(g,h,i)perylene	4.2	J

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\25JUN15\DEQ06F19.D Vial: 43
Acq On : 06/25/2015 11:34 Operator: DJC
Sample : 1515725019 F9M97 (4) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 25 12:09:24 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

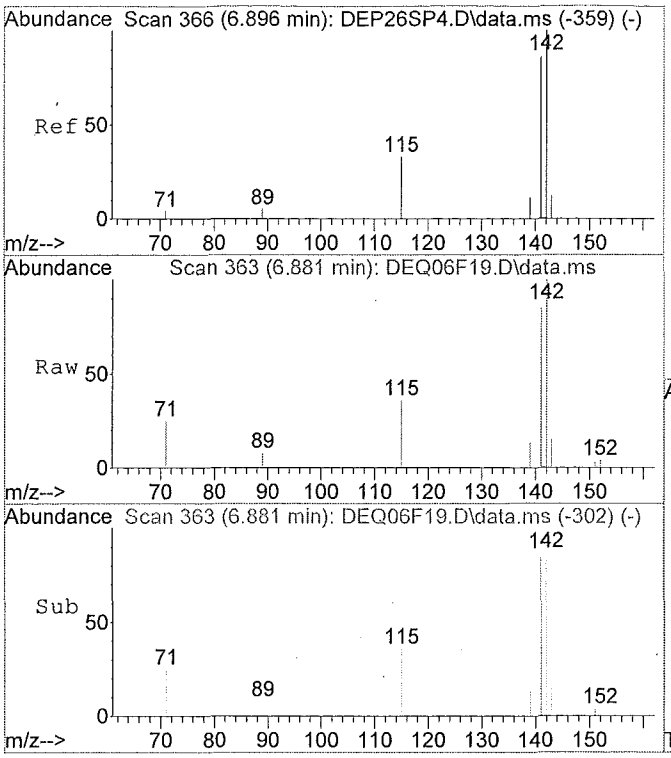
Data File : C:\msdchem\1\data\F9...IM\25JUN15\DEQ06F19.D Vial: 43
Acq On : 06/25/2015 11:34 Operator: DJC
Sample : 1515725019 F9M97 (4) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 12:09:24 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Qvalue
1) Naphthalene-d8	5.90	136	96020	0.40 ug/ml	
5) Acenaphthene-d10	8.54	164	67030	0.40 ug/ml	
9) Phenanthrene-d10	11.16	188	126088	0.40 ug/ml	
15) Chrysene-d12	15.34	240	144516	0.40 ug/ml	
19) Perylene-d12	17.70	264	154715	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.83	152	15377	0.099ug/mL	
13) Fluoranthene-d10	13.32	212	38331	0.111ug/mL	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	6.88	142	8192	0.051ug/ml	100
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	10.83	266	537	0.028ug/ml	100
11) Phenanthrene	11.20	178	223312	0.615ug/ml	99
12) Anthracene	11.29	178	15650	0.044ug/ml	93
14) Fluoranthene	13.35	202	60087	0.145ug/ml	91
16) Pyrene	13.70	202	185704	0.410ug/ml	89
17) Benzo(a)anthracene	15.33	228	84810	0.220ug/ml	87
18) Chrysene	15.38	228	141268	0.347ug/ml	92
20) Benzo(b)fluoranthene	16.97	252	70588	0.146ug/ml	97
21) Benzo(k)fluoranthene	17.01	252	17613	0.035ug/ml m SY 6/25/15	96
22) Benzo(a)pyrene	17.59	252	49722	0.108ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.37	276	36017	0.089ug/ml	100
24) Dibenzo(a,h)anthracene	20.45	278	16047	0.036ug/ml	94
25) Benzo(g,h,i)perylene	21.20	276	11320	0.025ug/ml	69

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

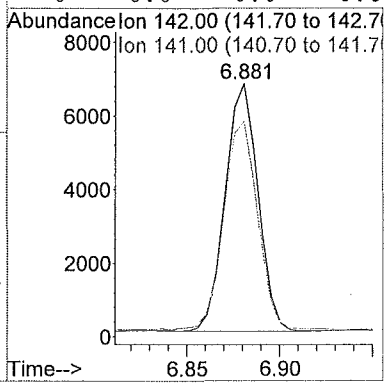
01269

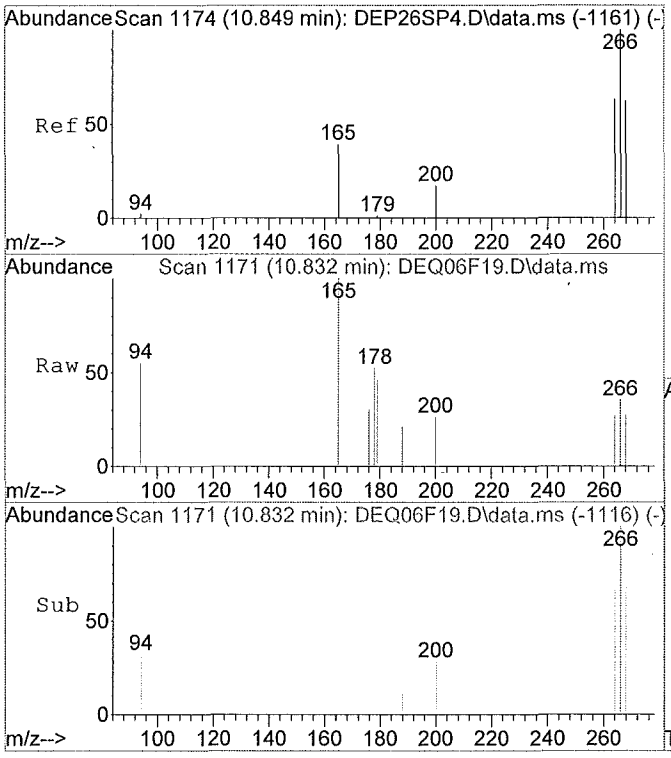


#4
2-Methylnaphthalene
Concen: 0.05 ug/ml
RT: 6.88 min Scan# 363
Delta R.T. -0.00 min
Lab File: DEQ06F19.D
Acq: 06/25/2015 11:34

Tgt Ion:142 Resp: 8192

Ion	Ratio	Lower	Upper
142	100		
141	87.6	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

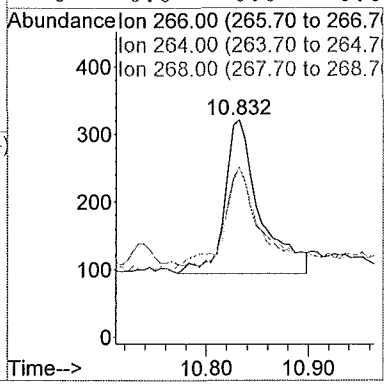


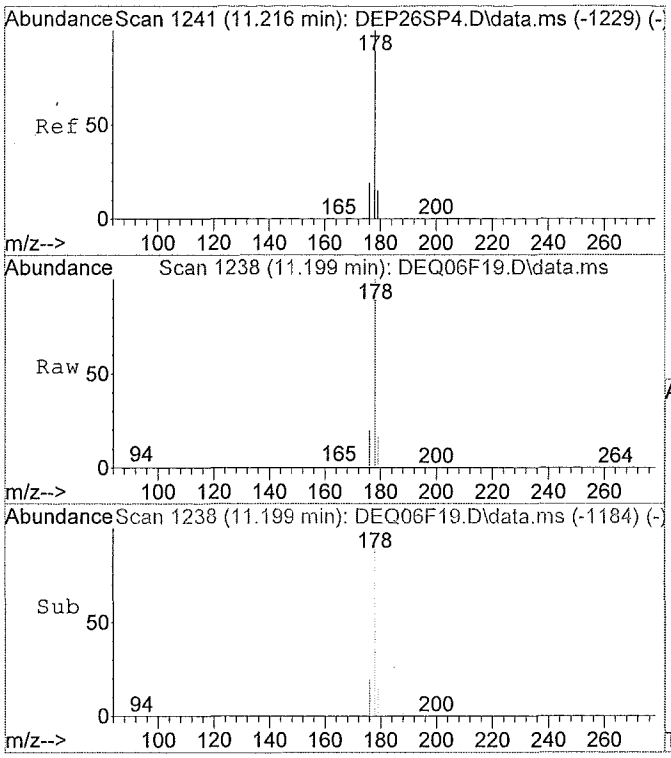


#10
Pentachlorophenol
Concen: 0.03 ug/ml
RT: 10.83 min Scan# 1171
Delta R.T. -0.00 min
Lab File: DEQ06F19.D
Acq: 06/25/2015 11:34

Tgt Ion:266 Resp: 537

Ion	Ratio	Lower	Upper
266	100		
264	64.4	0.0	0.0#
268	74.5	0.0	0.0#
0	0.0	0.0	0.0

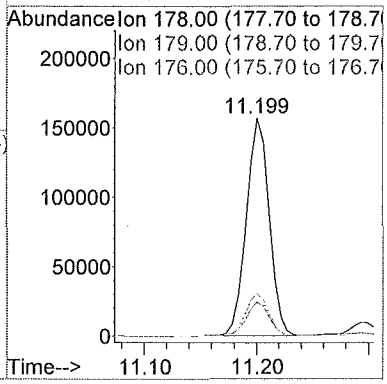


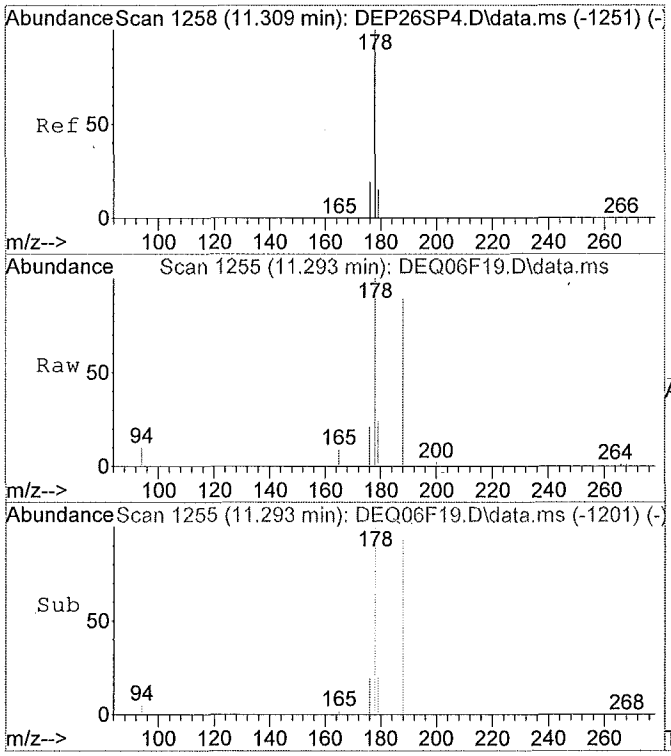


#11
Phenanthrene
Concen: 0.62 ug/ml
RT: 11.20 min Scan# 1238
Delta R.T. -0.01 min
Lab File: DEQ06F19.D
Acq: 06/25/2015 11:34

Tgt Ion:178 Resp: 223312

Ion	Ratio	Lower	Upper
178	100		
179	15.3	11.1	20.5
176	19.9	14.1	26.1
0	0.0	0.0	0.0

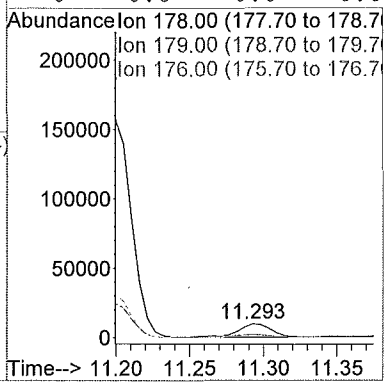


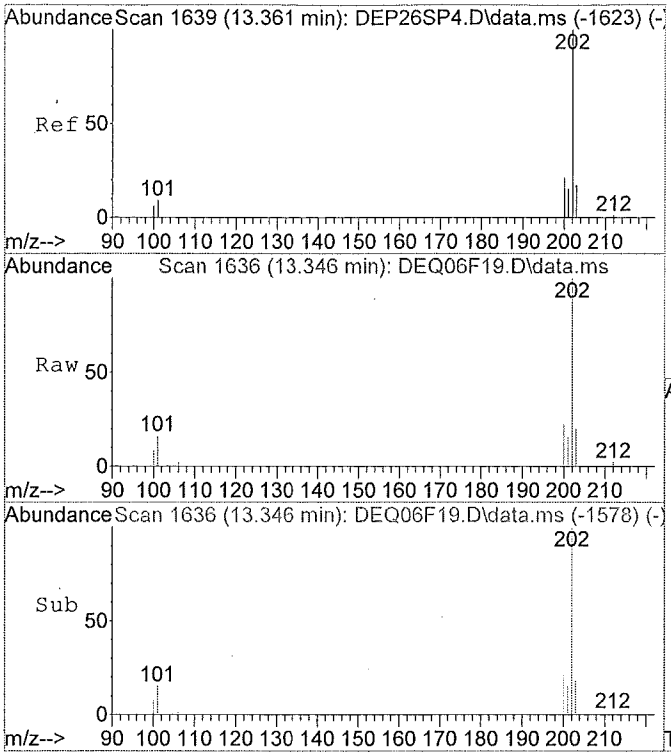


#12
Anthracene
Concen: 0.04 ug/ml
RT: 11.29 min Scan# 1255
Delta R.T. -0.01 min
Lab File: DEQ06F19.D
Acq: 06/25/2015 11:34

Tgt Ion:178 Resp: 15650

Ion	Ratio	Lower	Upper
178	100		
179	17.6	11.6	21.6
176	14.7	13.9	25.7
0	0.0	0.0	0.0

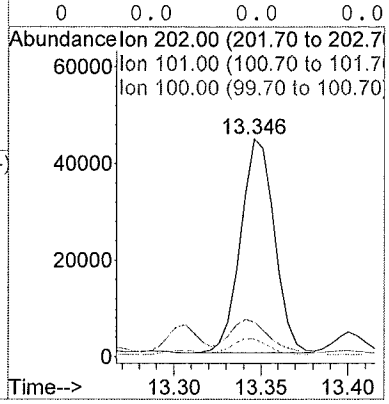


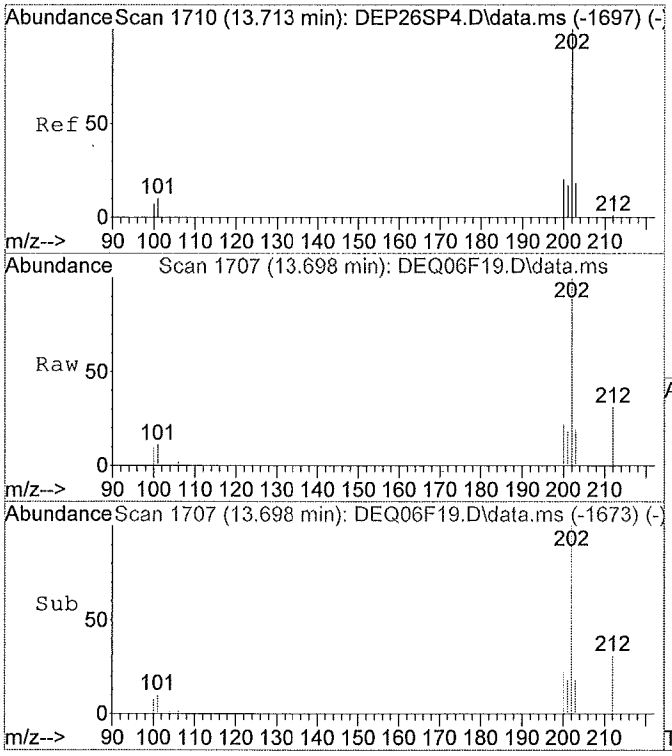


#14
Fluoranthene
Concen: 0.15 ug/ml
RT: 13.35 min Scan# 1636
Delta R.T. -0.00 min
Lab File: DEQ06F19.D
Acq: 06/25/2015 11:34

Tgt Ion:202 Resp: 60087

Ion	Ratio	Lower	Upper
202	100		
101	17.2	9.4	17.6
100	8.4	0.0	0.0#
0	0.0	0.0	0.0

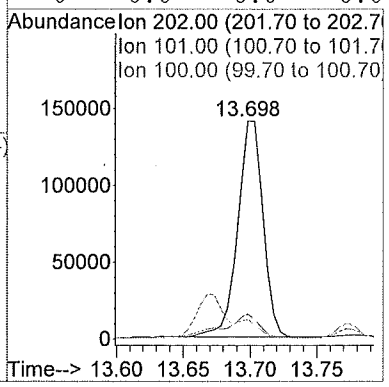




#16
Pyrene
Concen: 0.41 ug/ml
RT: 13.70 min Scan# 1707
Delta R.T. -0.00 min
Lab File: DEQ06F19.D
Acq: 06/25/2015 11:34

Tgt Ion:202 Resp: 185704

Ion	Ratio	Lower	Upper
202	100		
101	15.4	10.6	19.6
100	22.8	9.4	17.4#
0	0.0	0.0	0.0



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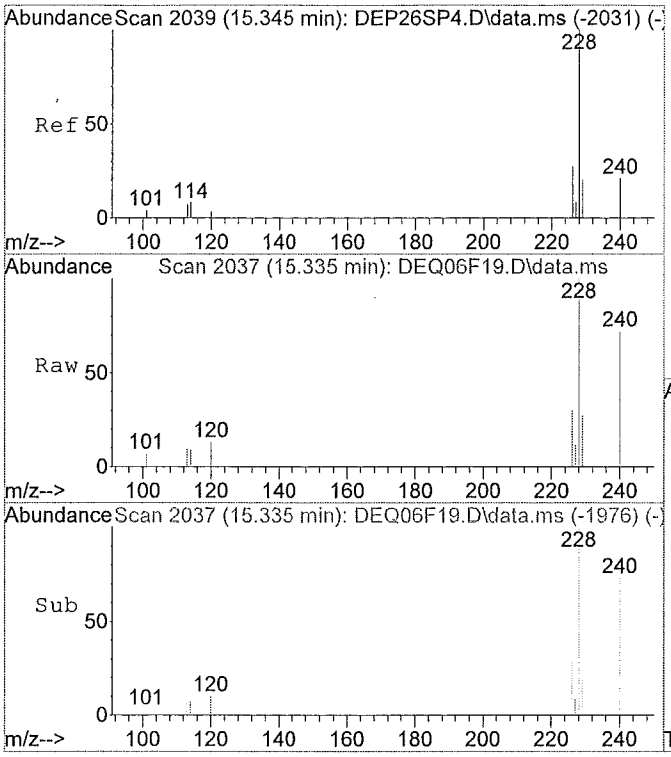
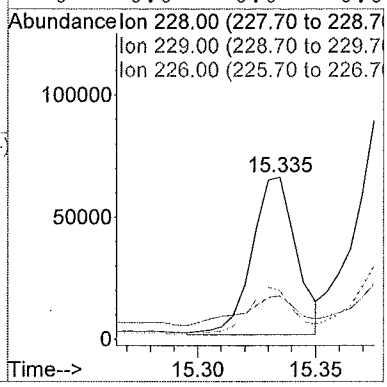
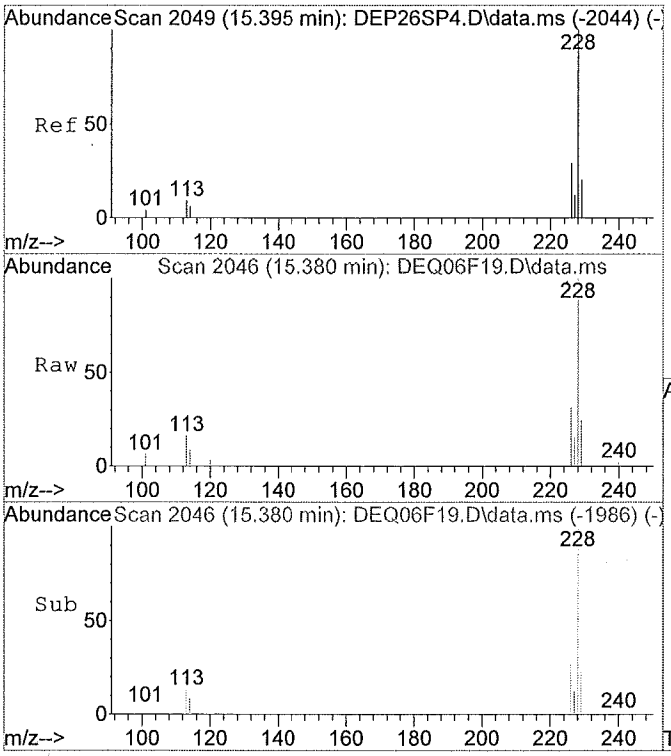


#17
Benzo(a)anthracene
Concen: 0.22 ug/ml
RT: 15.33 min Scan# 2037
Delta R.T. 0.00 min
Lab File: DEQ06F19.D
Acq: 06/25/2015 11:34

Tgt Ion:228 Resp: 84810

Ion	Ratio	Lower	Upper
228	100		
229	31.2	14.5	26.9#
226	29.6	18.5	34.3
0	0.0	0.0	0.0

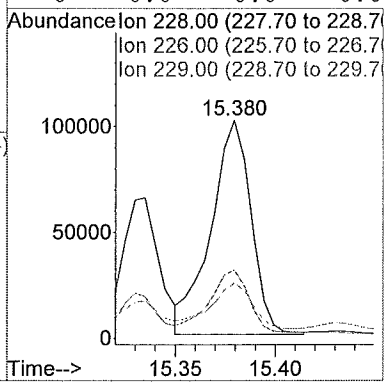


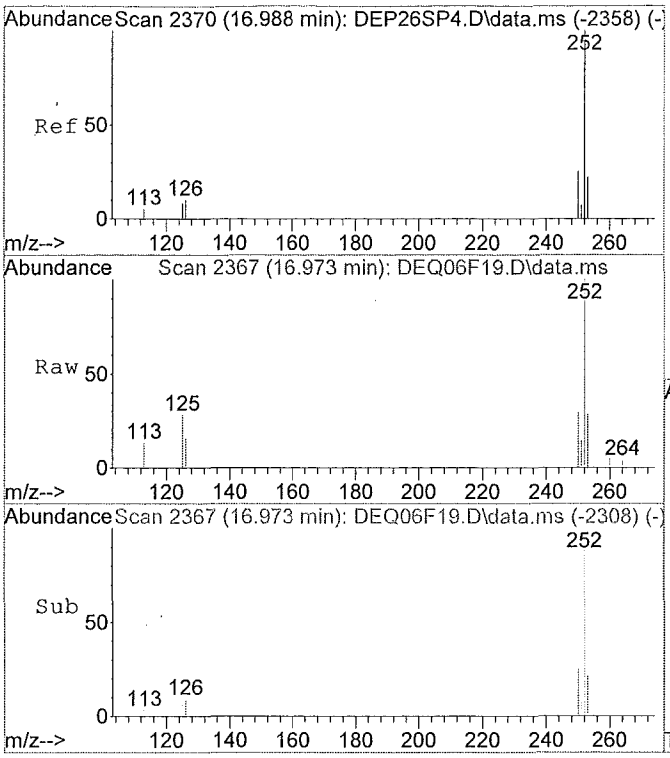


#18
Chrysene
Concen: 0.35 ug/ml
RT: 15.38 min Scan# 2046
Delta R.T. -0.00 min
Lab File: DEQ06F19.D
Acq: 06/25/2015 11:34

Tgt Ion:228 Resp: 141268

Ion	Ratio	Lower	Upper
228	100		
226	32.0	19.7	36.7
229	25.0	14.5	26.9
0	0.0	0.0	0.0

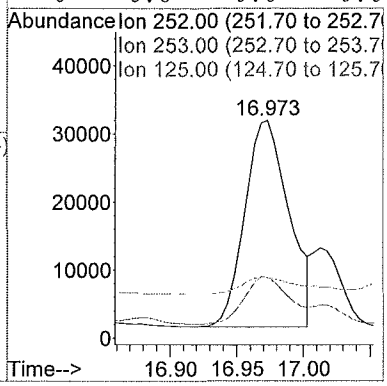


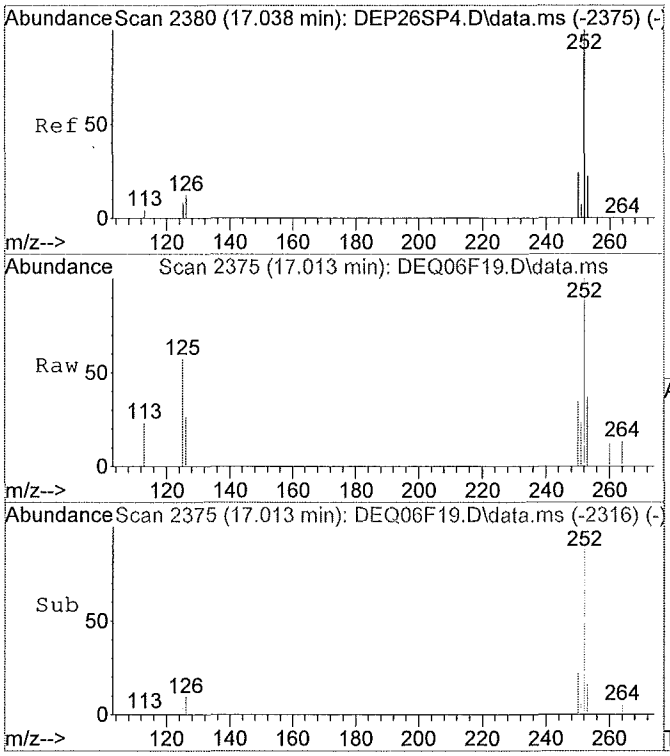


#20
Benzo(b)fluoranthene
Concen: 0.15 ug/ml
RT: 16.97 min Scan# 2367
Delta R.T. 0.00 min
Lab File: DEQ06F19.D
Acq: 06/25/2015 11:34

Tgt Ion:252 Resp: 70588

Ion	Ratio	Lower	Upper
252	100		
253	23.1	15.3	28.3
125	10.7	0.0	0.0#
0	0.0	0.0	0.0

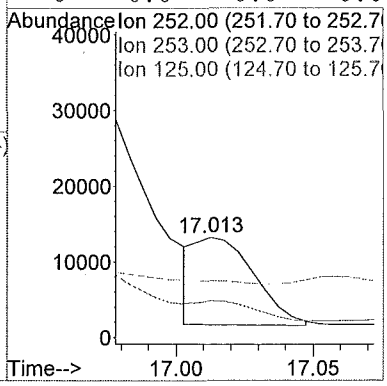




#21
Benzo(k)fluoranthene
Concen: 0.04 ug/ml m
RT: 17.01 min Scan# 2375
Delta R.T. -0.01 min
Lab File: DEQ06F19.D
Acq: 06/25/2015 11:34

Tgt Ion:252 Resp: 17613

Ion	Ratio	Lower	Upper
252	100		
253	92.5	15.0	27.8#
125	41.2	0.0	0.0#
0	0.0	0.0	0.0



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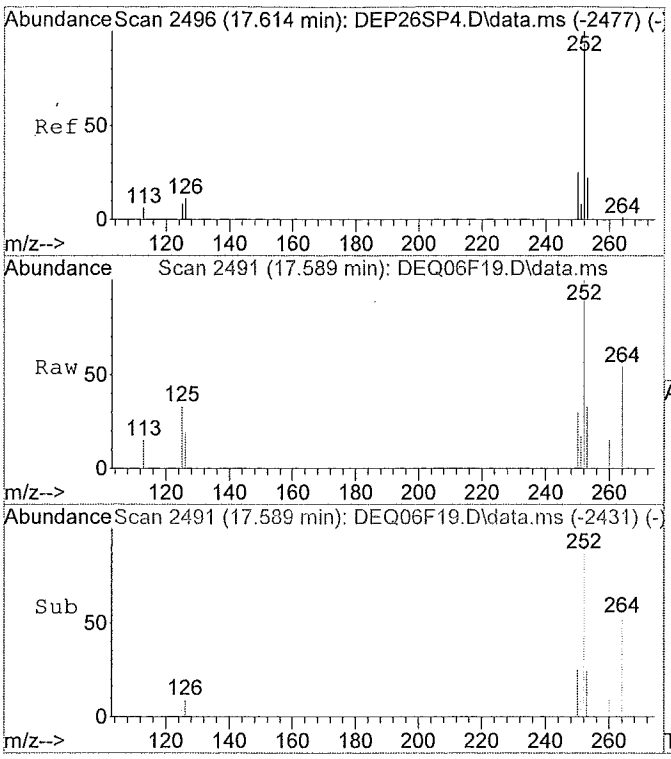
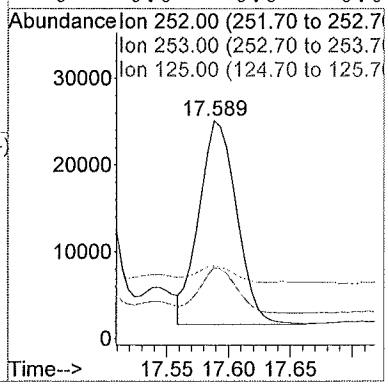
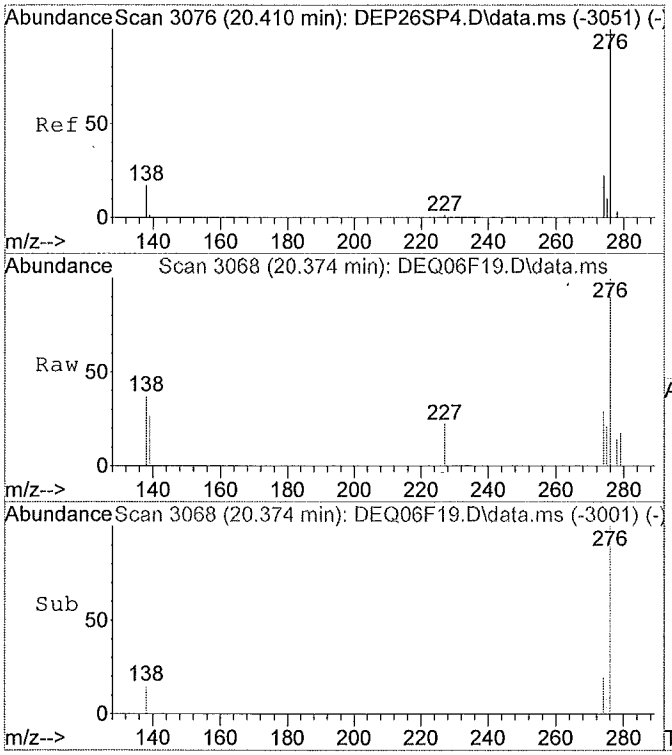


#22
Benzo(a)pyrene
Concen: 0.11 ug/ml
RT: 17.59 min Scan# 2491
Delta R.T. -0.00 min
Lab File: DEQ06F19.D
Acq: 06/25/2015 11:34

Tgt Ion:252 Resp: 49722

Ion	Ratio	Lower	Upper
252	100		
253	21.8	15.0	27.8
125	7.5	0.0	0.0#
0	0.0	0.0	0.0

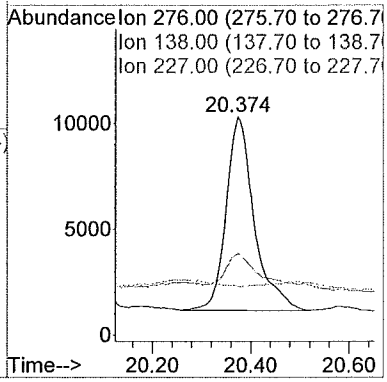




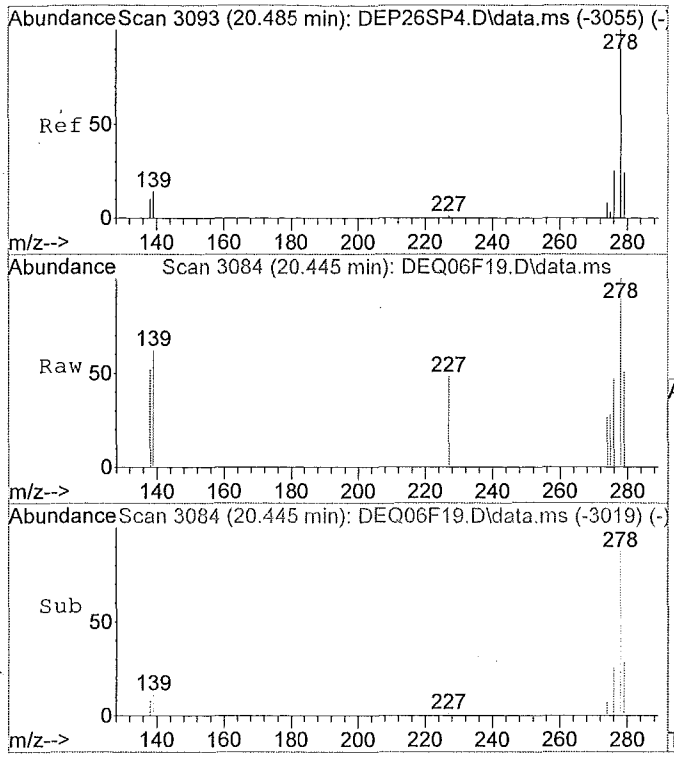
#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.09 ug/ml
RT: 20.37 min Scan# 3068
Delta R.T. -0.00 min
Lab File: DEQ06F19.D
Acq: 06/25/2015 11:34

Tgt Ion:276 Resp: 36017

Ion	Ratio	Lower	Upper
276	100		
138	15.5	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0



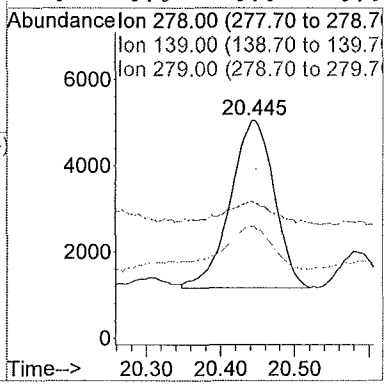
01289

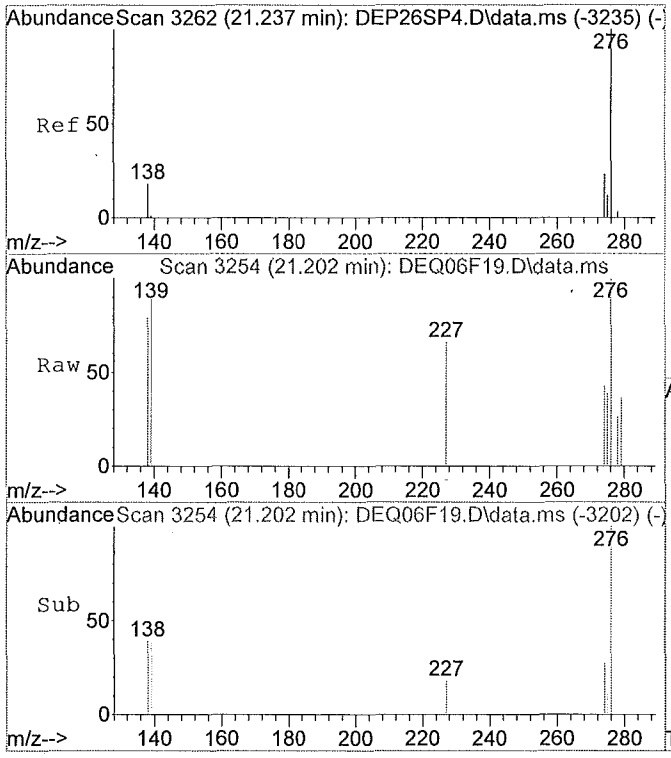


#24
Dibenzo(a,h)anthracene
Concen: 0.04 ug/ml
RT: 20.45 min Scan# 3084
Delta R.T. -0.01 min
Lab File: DEQ06F19.D
Acq: 06/25/2015 11:34

Tgt Ion:278 Resp: 16047

Ion	Ratio	Lower	Upper
278	100		
139	12.4	0.0	0.0#
279	25.3	15.8	29.3
0	0.0	0.0	0.0

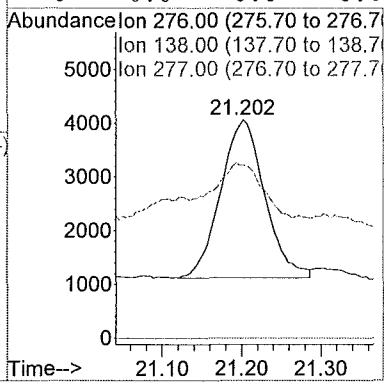




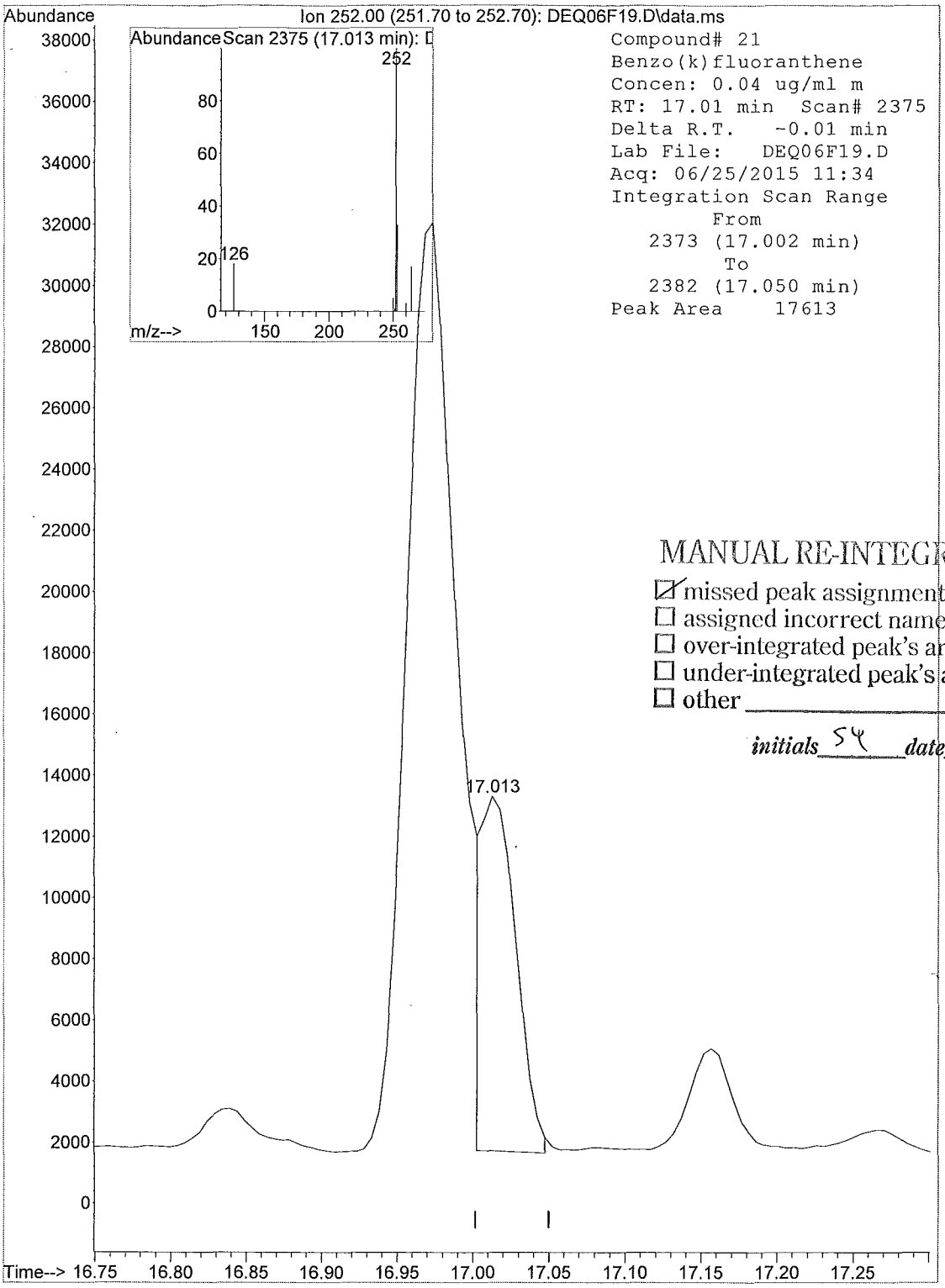
#25
Benzo(g,h,i)perylene
Concen: 0.02 ug/ml
RT: 21.20 min Scan# 3254
Delta R.T. 0.00 min
Lab File: DEQ06F19.D
Acq: 06/25/2015 11:34

Tgt Ion:276 Resp: 11320

Ion	Ratio	Lower	Upper
276	100		
138	30.1	16.2	30.0#
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 6/25/15

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M98

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725020

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DEQ04F20

Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/25/2015

GPC Cleanup: (Y/N) Y pH: 6.8 Dilution Factor: 1.0

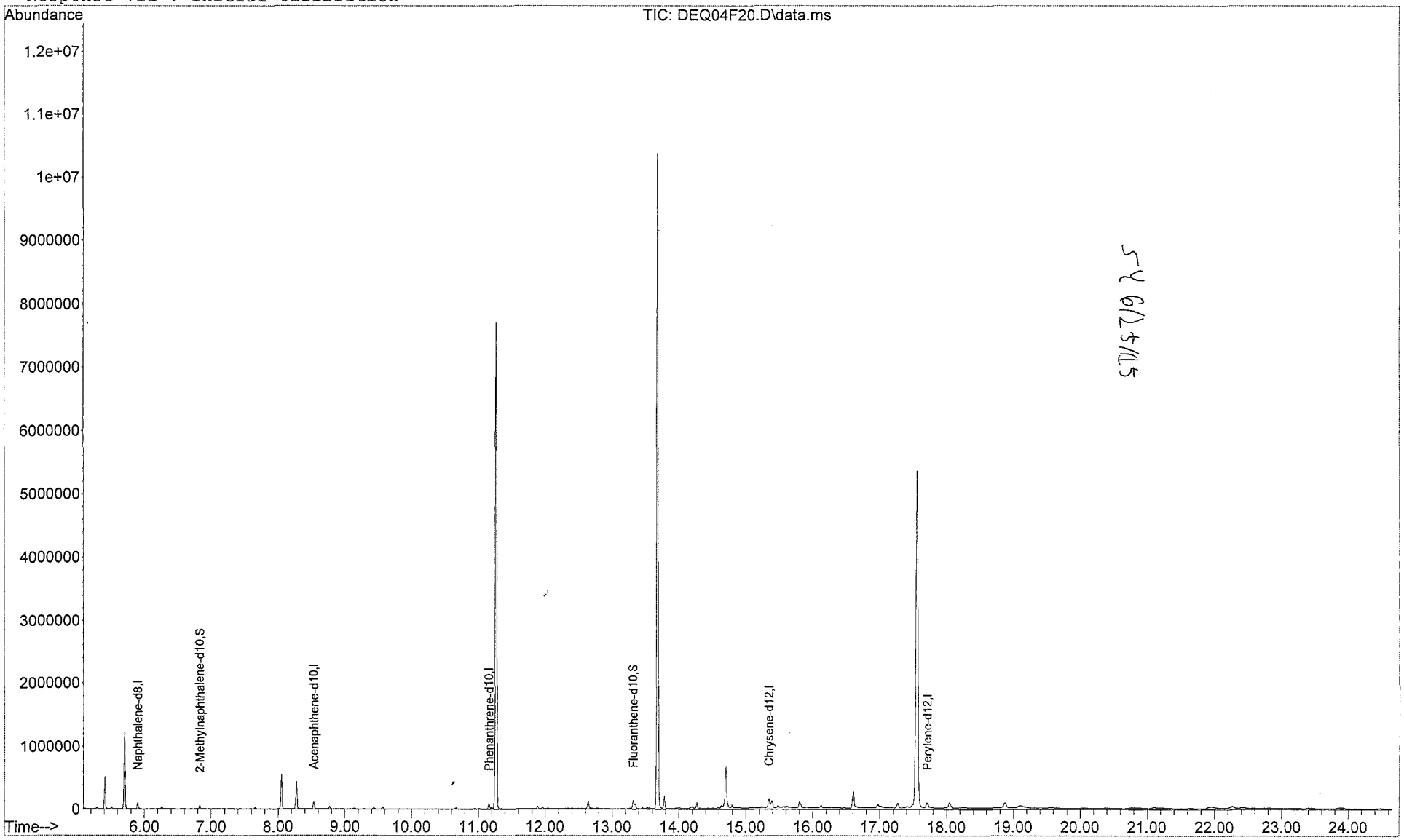
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.8	U
91-57-6	2-Methylnaphthalene	3.8	U
208-96-8	Acenaphthylene	0.88	J
83-32-9	Acenaphthene	3.8	U
86-73-7	Fluorene	3.8	U
87-86-5	Pentachlorophenol	7.8	U
85-01-8	Phenanthrene	2.6	J
120-12-7	Anthracene	0.97	J
206-44-0	Fluoranthene	4.7	
129-00-0	Pyrene	7.0	
56-55-3	Benzo(a)anthracene	3.6	J
218-01-9	Chrysene	5.6	
205-99-2	Benzo(b)fluoranthene	5.5	
207-08-9	Benzo(k)fluoranthene	1.6	J
50-32-8	Benzo(a)pyrene	3.1	J
193-39-5	Indeno(1,2,3-cd)pyrene	3.3	J
53-70-3	Dibenzo(a,h)anthracene	0.92	J
191-24-2	Benzo(g,h,i)perylene	3.8	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\25JUN15\DEQ04F20.D Vial: 44
Acq On : 06/25/2015 10:34 Operator: DJC
Sample : 1515725020 F9M98 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 25 12:08:29 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



SV 6/15/15

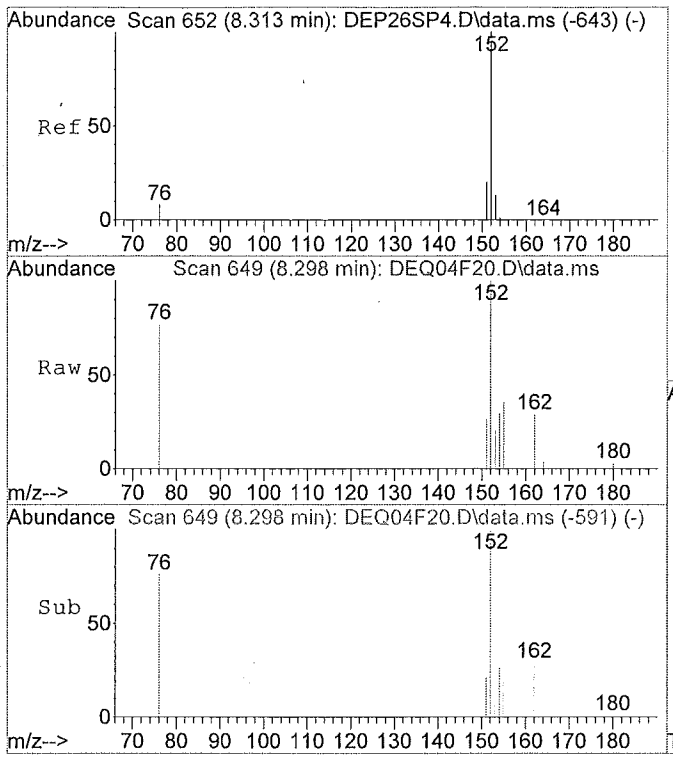
Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\25JUN15\DEQ04F20.D Vial: 44
Acq On : 06/25/2015 10:34 Operator: DJC
Sample : 1515725020 F9M98 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 12:08:29 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.90	136	104847	0.40 ug/ml	
5) Acenaphthene-d10	8.54	164	75109	0.40 ug/ml	
9) Phenanthrene-d10	11.16	188	121792	0.40 ug/ml	
15) Chrysene-d12	15.34	240	129718	0.40 ug/ml	
19) Perylene-d12	17.71	264	140432	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.83	152	58647	0.347ug/mL	
13) Fluoranthene-d10	13.32	212	133912	0.402ug/mL	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	8.30	152	7469	0.023ug/ml	67
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.20	178	23916	0.068ug/ml	94
12) Anthracene	11.30	178	8539	0.025ug/ml	78
14) Fluoranthene	13.35	202	48363	0.121ug/ml	3
16) Pyrene	13.70	202	73790	0.181ug/ml	1
17) Benzo(a)anthracene	15.33	228	32506	0.094ug/ml	89
18) Chrysene	15.38	228	52357	0.143ug/ml	93
20) Benzo(b)fluoranthene	16.97	252	61501	0.141ug/ml	96
21) Benzo(k)fluoranthene	17.02	252	18112	0.040ug/ml m SY 06/25/15	96
22) Benzo(a)pyrene	17.60	252	33832	0.081ug/ml	96
23) Indeno(1,2,3-c,d)pyrene	20.38	276	31251	0.085ug/ml	100
24) Dibenzo(a,h)anthracene	20.45	278	9546	0.024ug/ml	81
25) Benzo(g,h,i)perylene	0.00	276		Not Detected	

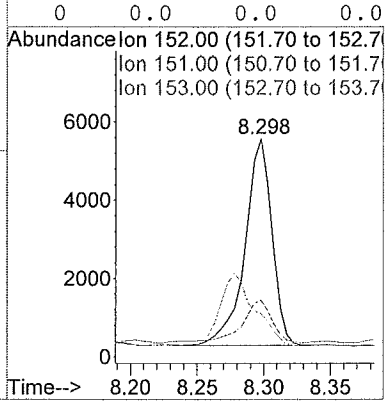
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

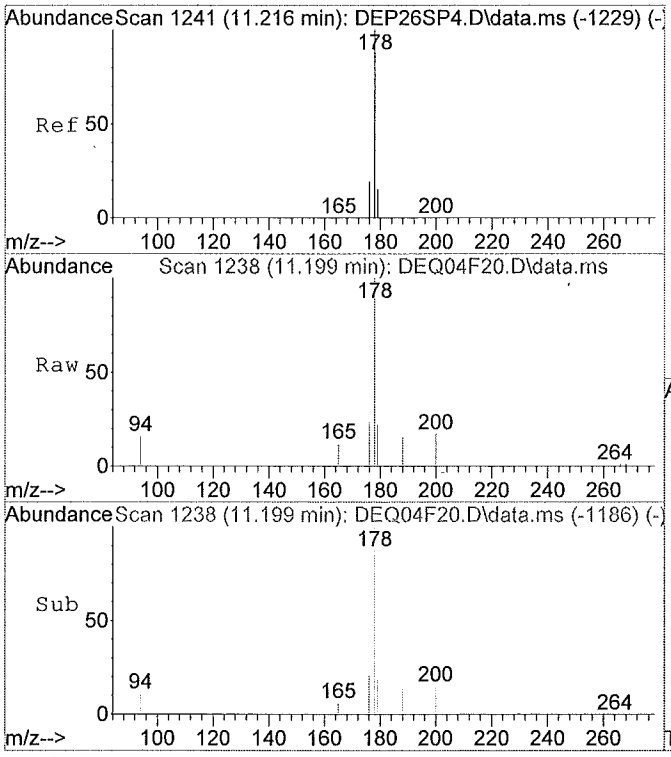


#6
Acenaphthylene
Concen: 0.02 ug/ml
RT: 8.30 min Scan# 649
Delta R.T. -0.01 min
Lab File: DEQ04F20.D
Acq: 06/25/2015 10:34

Tgt Ion:152 Resp: 7469

Ion	Ratio	Lower	Upper
152	100		
151	23.9	15.5	28.7
153	45.4	8.8	16.4#
0	0.0	0.0	0.0

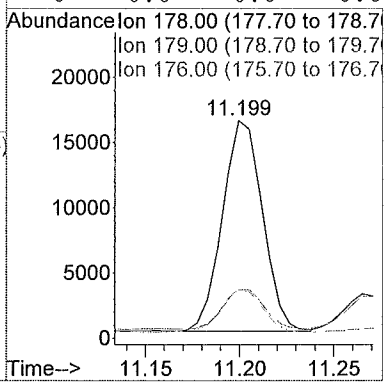




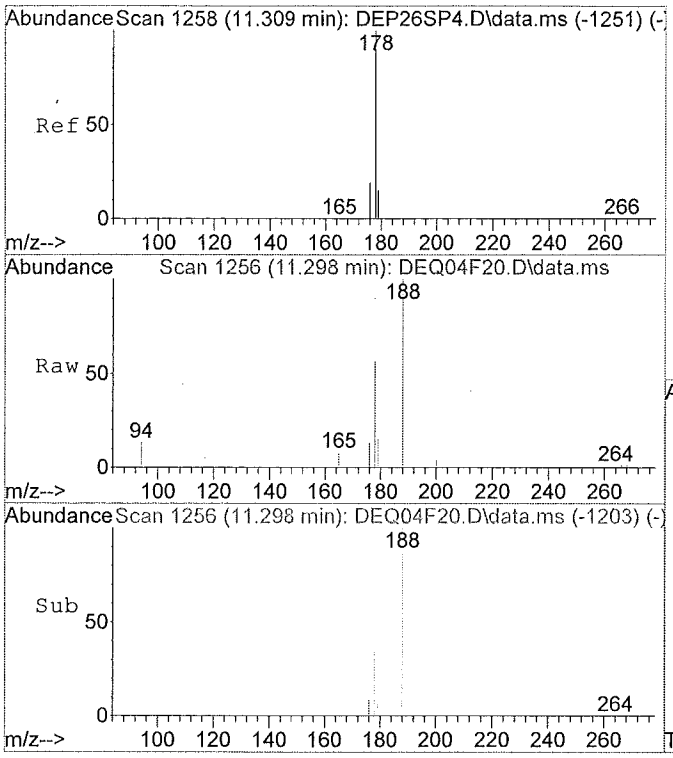
#11
Phenanthrene
Concen: 0.07 ug/ml
RT: 11.20 min Scan# 1238
Delta R.T. -0.02 min
Lab File: DEQ04F20.D
Acq: 06/25/2015 10:34

Tgt Ion:178 Resp: 23916

Ion	Ratio	Lower	Upper
178	100		
179	19.3	11.1	20.5
176	22.0	14.1	26.1
0	0.0	0.0	0.0



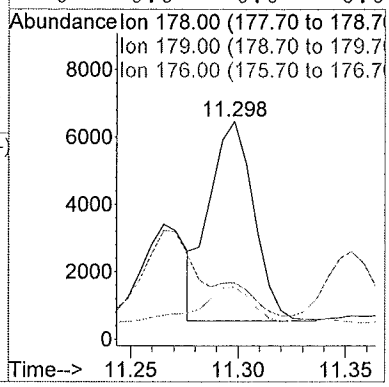
: 01275

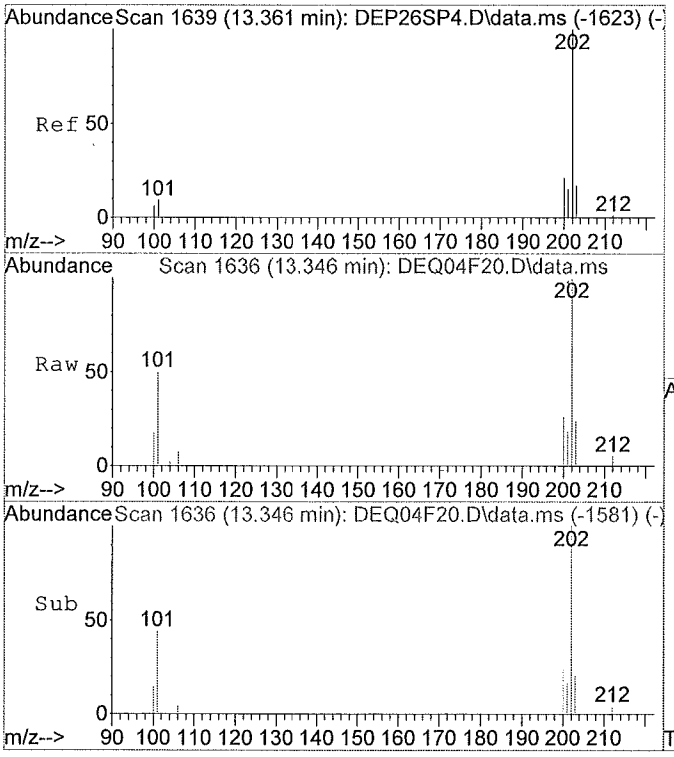


#12
Anthracene
Concen: 0.03 ug/ml
RT: 11.30 min Scan# 1256
Delta R.T. -0.01 min
Lab File: DEQ04F20.D
Acq: 06/25/2015 10:34

Tgt Ion:178 Resp: 8539

Ion	Ratio	Lower	Upper
178	100		
179	0.0	11.6	21.6#
176	23.2	13.9	25.7
0	0.0	0.0	0.0

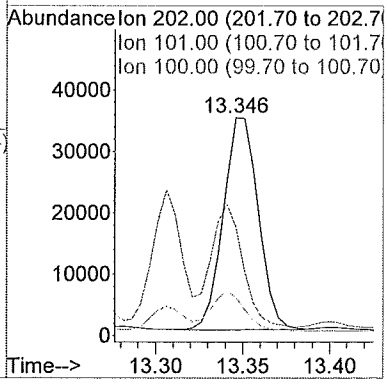




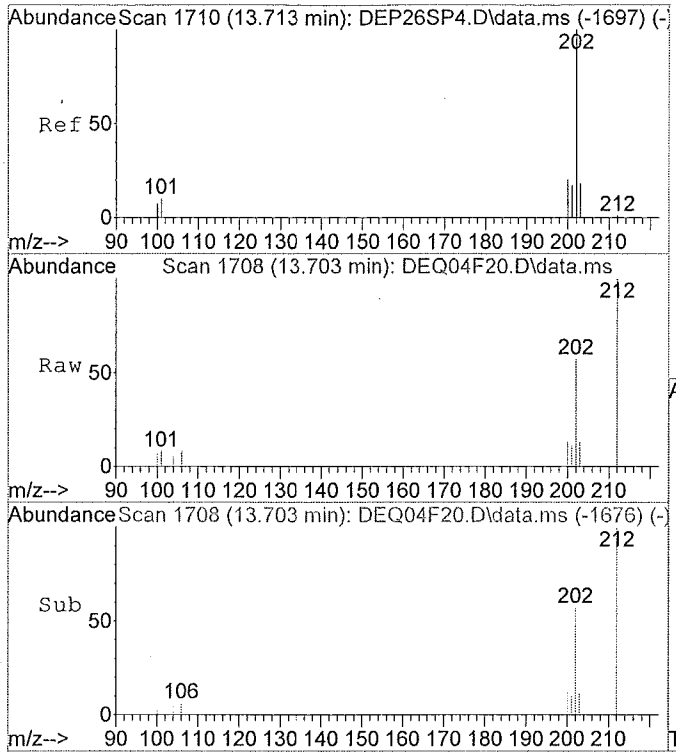
#14
Fluoranthene
Concen: 0.12 ug/ml
RT: 13.35 min Scan# 1636
Delta R.T. -0.02 min
Lab File: DEQ04F20.D
Acq: 06/25/2015 10:34

Tgt Ion:202 Resp: 48363

Ion	Ratio	Lower	Upper
202	100		
101	52.4	9.4	17.6#
100	18.1	0.0	0.0#
0	0.0	0.0	0.0



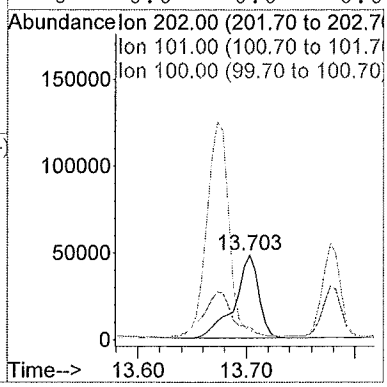
: 01278

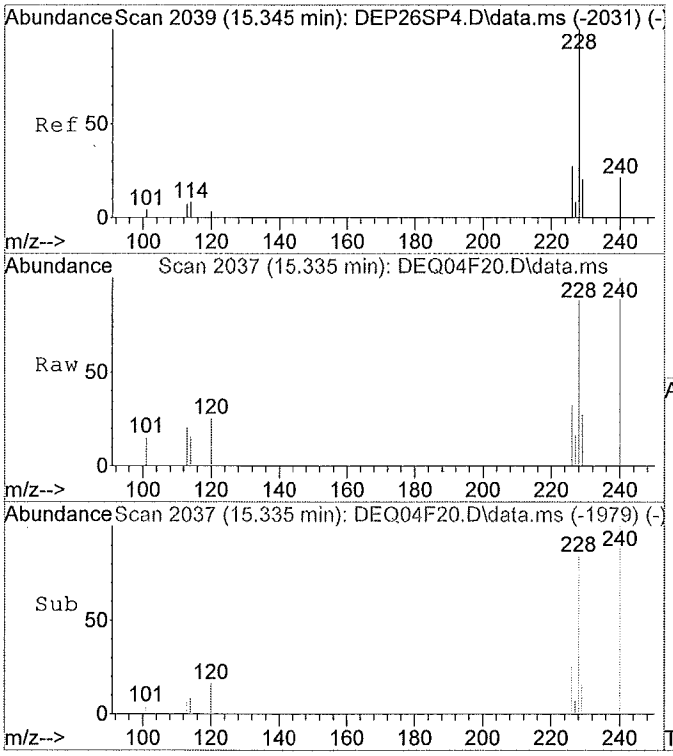


#16
Pyrene
Concen: 0.18 ug/ml
RT: 13.70 min Scan# 1708
Delta R.T. -0.01 min
Lab File: DEQ04F20.D
Acq: 06/25/2015 10:34

Tgt Ion:202 Resp: 73790

Ion	Ratio	Lower	Upper
202	100		
101	67.1	10.6	19.6#
100	247.6	9.4	17.4#
0	0.0	0.0	0.0

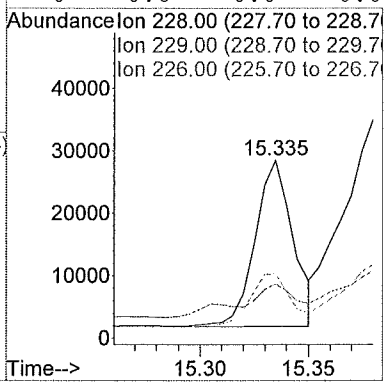


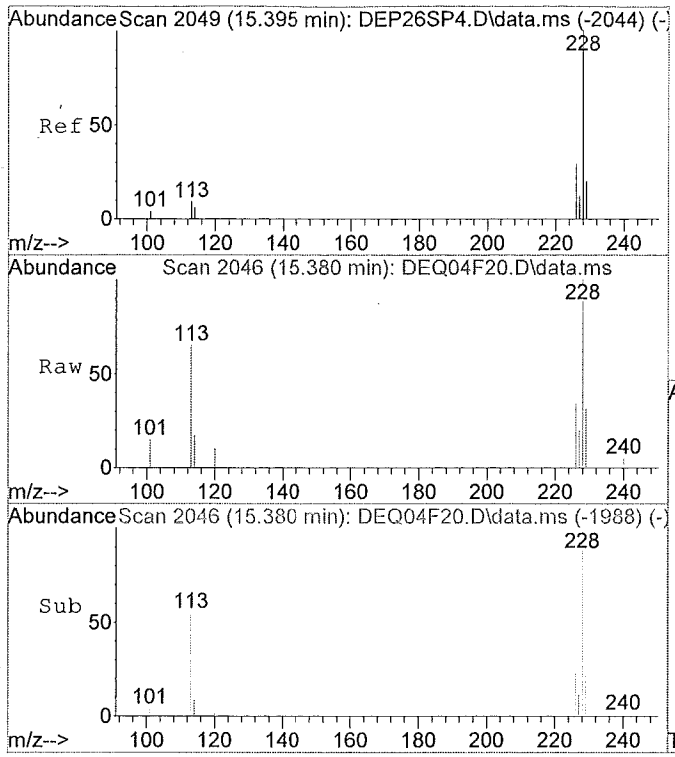


#17
Benzo(a)anthracene
Concen: 0.09 ug/ml
RT: 15.33 min Scan# 2037
Delta R.T. -0.01 min
Lab File: DEQ04F20.D
Acq: 06/25/2015 10:34

Tgt Ion:228 Resp: 32506

Ion	Ratio	Lower	Upper
228	100		
229	19.1	14.5	26.9
226	35.5	18.5	34.3#
0	0.0	0.0	0.0

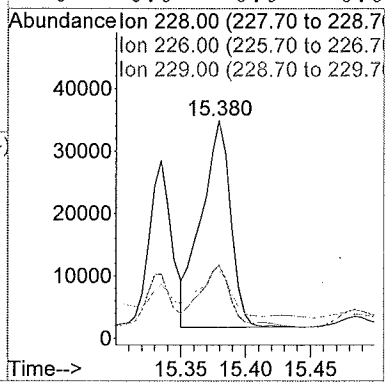


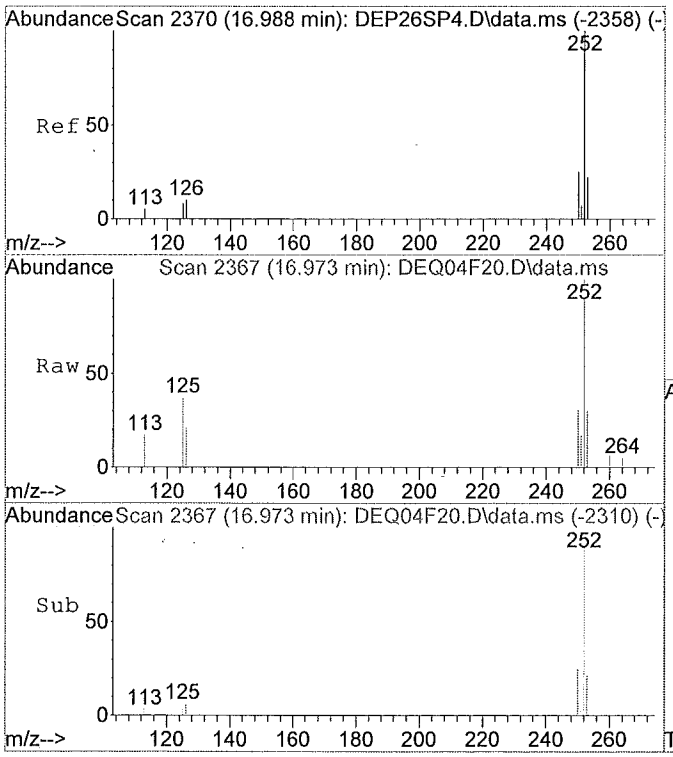


#18
Chrysene
Concen: 0.14 ug/ml
RT: 15.38 min Scan# 2046
Delta R.T. -0.01 min
Lab File: DEQ04F20.D
Acq: 06/25/2015 10:34

Tgt Ion:228 Resp: 52357

Ion	Ratio	Lower	Upper
228	100		
226	32.3	19.7	36.7
229	23.9	14.5	26.9
0	0.0	0.0	0.0

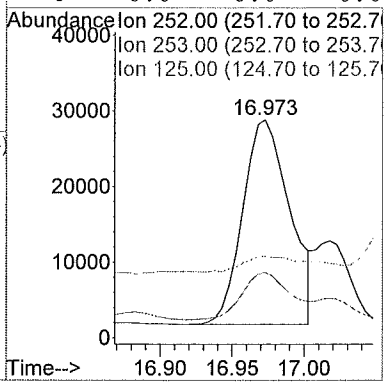




#20
Benzo(b)fluoranthene
Concen: 0.14 ug/ml
RT: 16.97 min Scan# 2367
Delta R.T. -0.01 min
Lab File: DEQ04F20.D
Acq: 06/25/2015 10:34

Tgt Ion:252 Resp: 61501

Ion	Ratio	Lower	Upper
252	100		
253	23.5	15.3	28.3
125	13.6	0.0	0.0#
0	0.0	0.0	0.0



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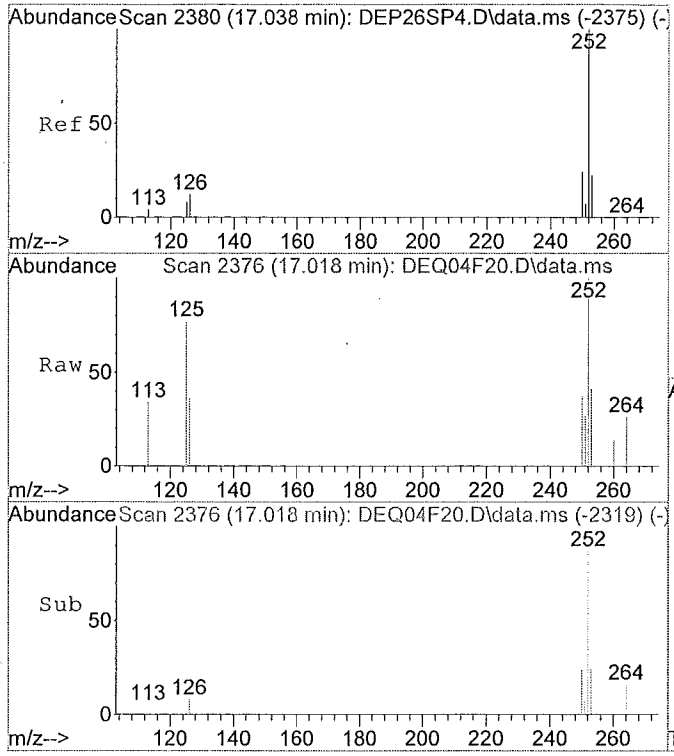
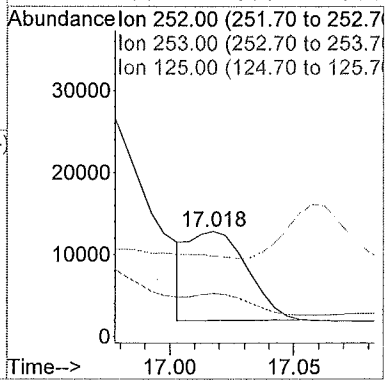
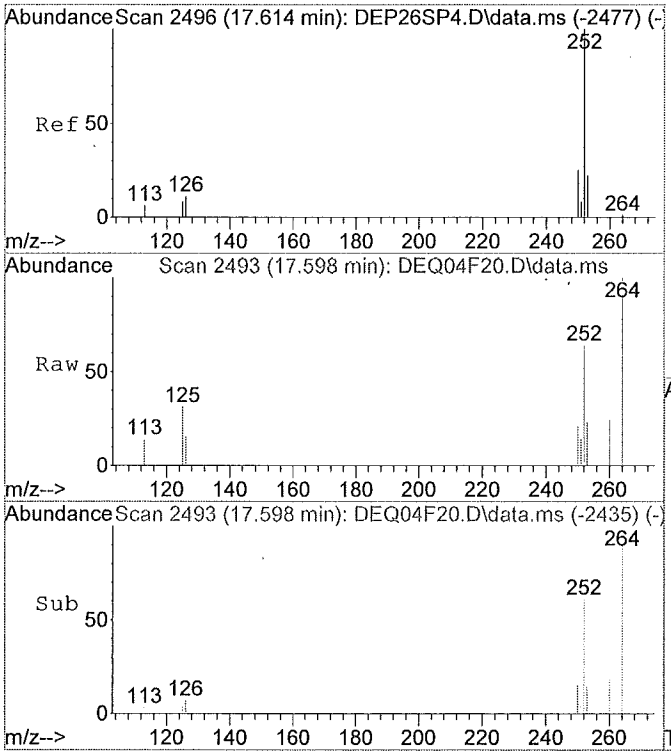


#21
Benzo(k)fluoranthene
Concen: 0.04 ug/ml m
RT: 17.02 min Scan# 2376
Delta R.T. -0.02 min
Lab File: DEQ04F20.D
Acq: 06/25/2015 10:34

Tgt Ion:252 Resp: 18112

Ion	Ratio	Lower	Upper
252	100		
253	79.7	15.0	27.8#
125	38.6	0.0	0.0#
0	0.0	0.0	0.0

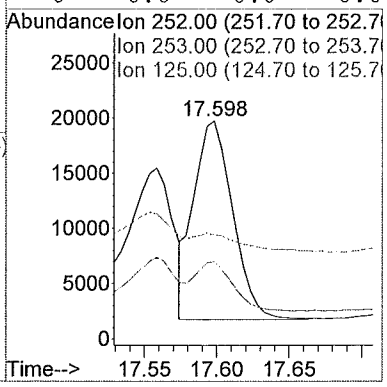


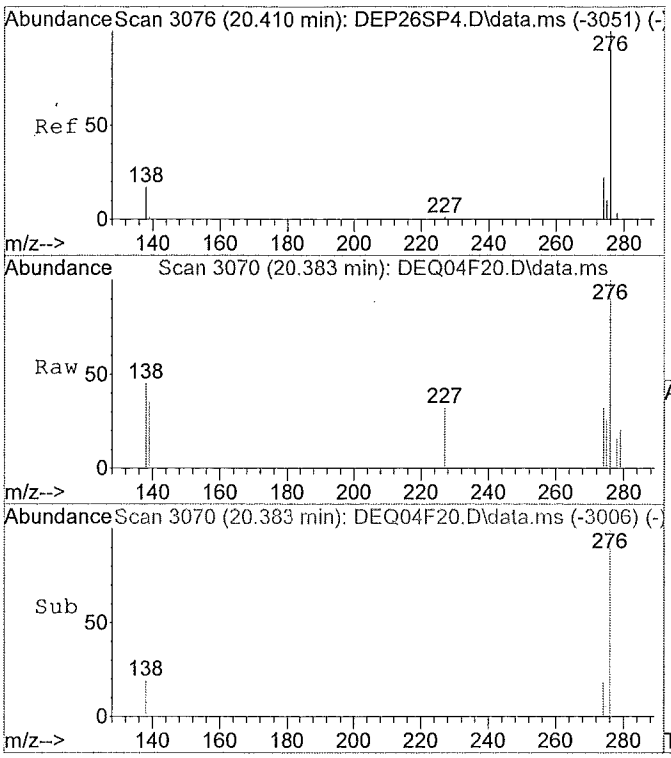


#22
Benzo(a)pyrene
Concen: 0.08 ug/ml
RT: 17.60 min Scan# 2493
Delta R.T. -0.01 min
Lab File: DEQ04F20.D
Acq: 06/25/2015 10:34

Tgt Ion:252 Resp: 33832

Ion	Ratio	Lower	Upper
252	100		
253	23.5	15.0	27.8
125	0.0	0.0	0.0
0	0.0	0.0	0.0

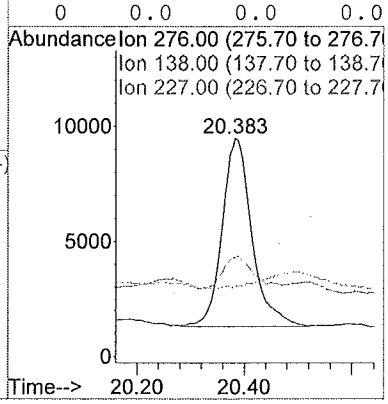


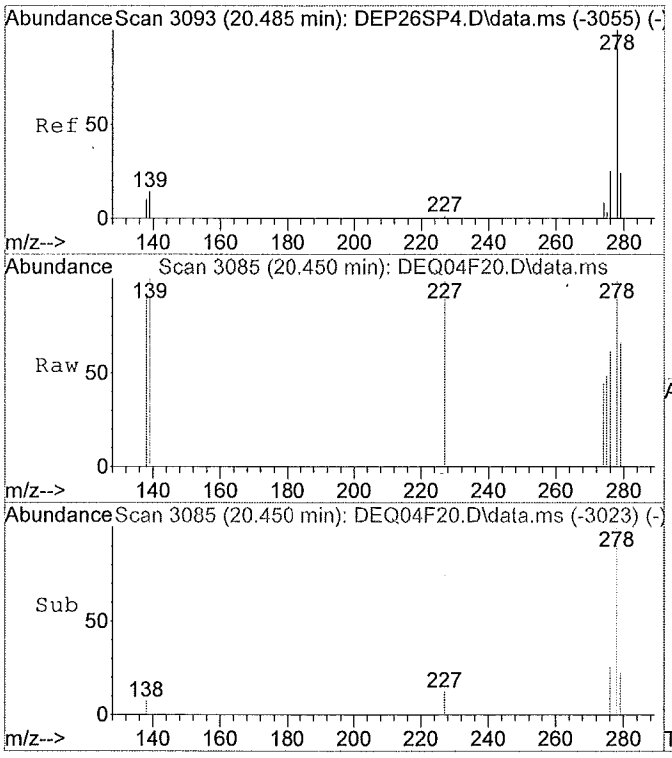


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.09 ug/ml
RT: 20.38 min Scan# 3070
Delta R.T. -0.01 min
Lab File: DEQ04F20.D
Acq: 06/25/2015 10:34

Tgt Ion:276 Resp: 31251

Ion	Ratio	Lower	Upper
276	100		
138	16.1	0.0	0.0#
227	0.4	0.0	0.0#
0	0.0	0.0	0.0

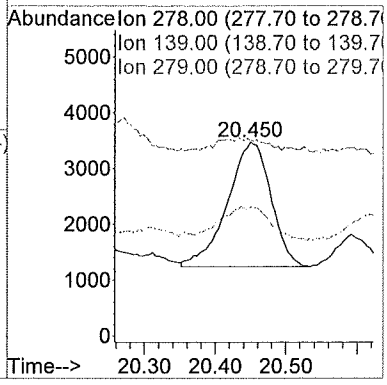




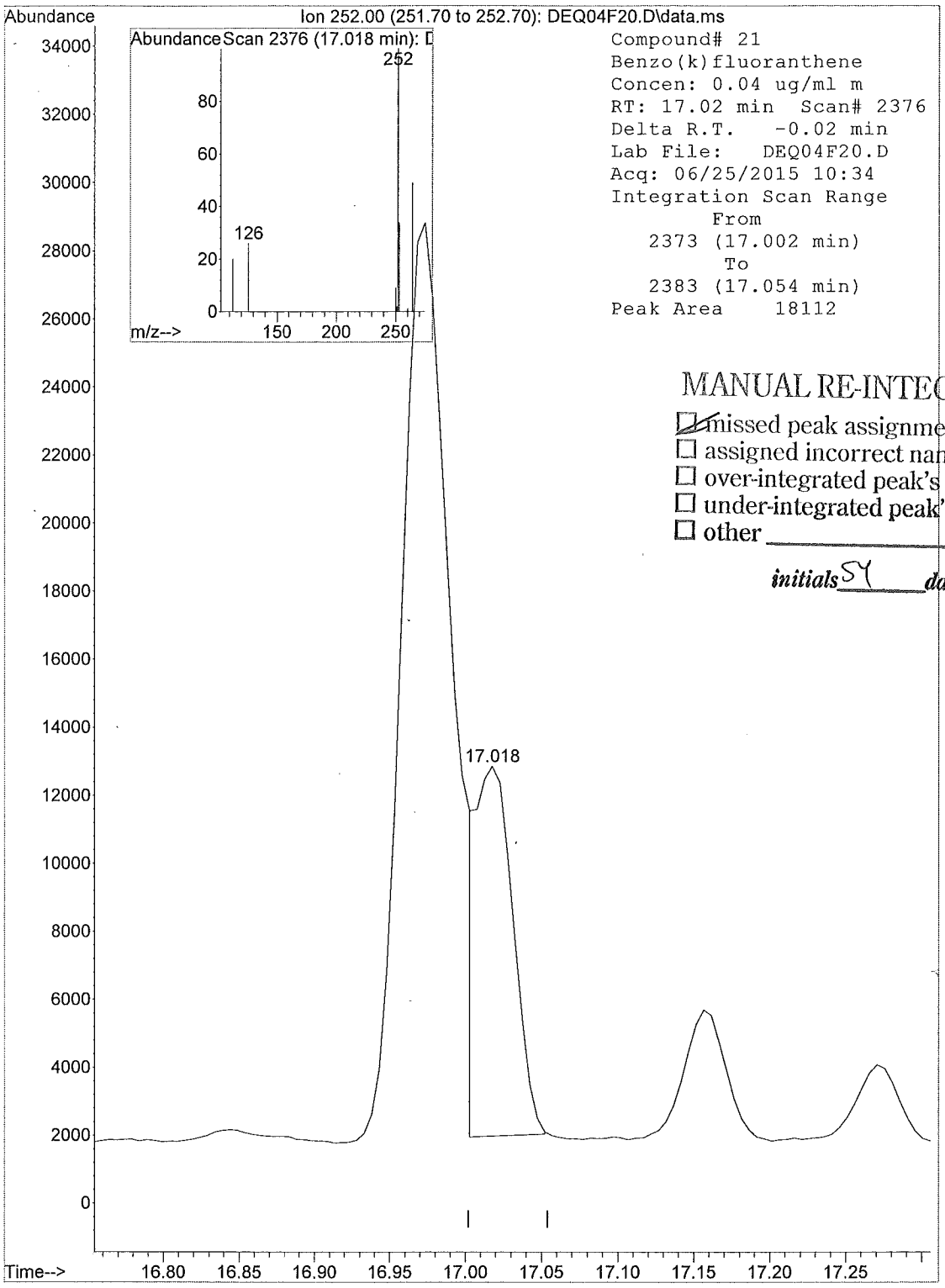
#24
Dibenzo(a,h)anthracene
Concen: 0.02 ug/ml
RT: 20.45 min Scan# 3085
Delta R.T. -0.02 min
Lab File: DEQ04F20.D
Acq: 06/25/2015 10:34

Tgt Ion:278 Resp: 9546

Ion	Ratio	Lower	Upper
278	100		
139	0.0	0.0	0.0
279	13.4	15.8	29.3#
0	0.0	0.0	0.0



M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☒ ~~missed peak assignment~~
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 6/25/15

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M99

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725021

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DEQ05F21

Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 06/05/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/25/2015

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

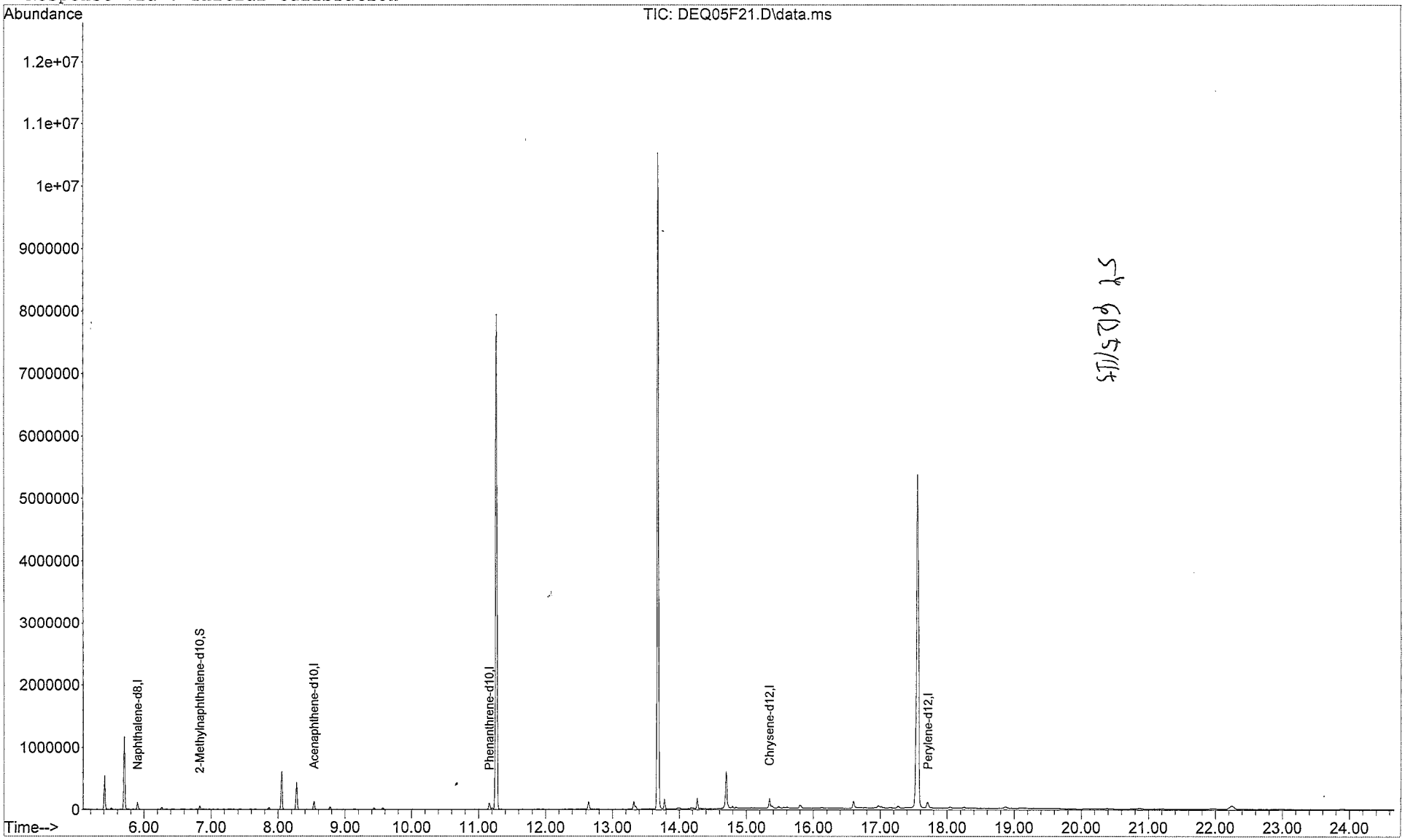
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.7	U
91-57-6	2-Methylnaphthalene	3.7	U
208-96-8	Acenaphthylene	3.7	U
83-32-9	Acenaphthene	3.7	U
86-73-7	Fluorene	3.7	U
87-86-5	Pentachlorophenol	7.5	U
85-01-8	Phenanthrene	1.6	J
120-12-7	Anthracene	3.7	U
206-44-0	Fluoranthene	2.7	J
129-00-0	Pyrene	4.2	
56-55-3	Benzo(a)anthracene	1.8	J
218-01-9	Chrysene	2.5	J
205-99-2	Benzo(b)fluoranthene	3.3	J
207-08-9	Benzo(k)fluoranthene	0.94	J
50-32-8	Benzo(a)pyrene	1.4	J
193-39-5	Indeno(1,2,3-cd)pyrene	1.7	J
53-70-3	Dibenzo(a,h)anthracene	3.7	U
191-24-2	Benzo(g,h,i)perylene	3.7	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\25JUN15\DEQ05F21.D Vial: 45
Acq On : 06/25/2015 11:04 Operator: DJC
Sample : 1515725021 F9M99 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 25 12:08:56 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



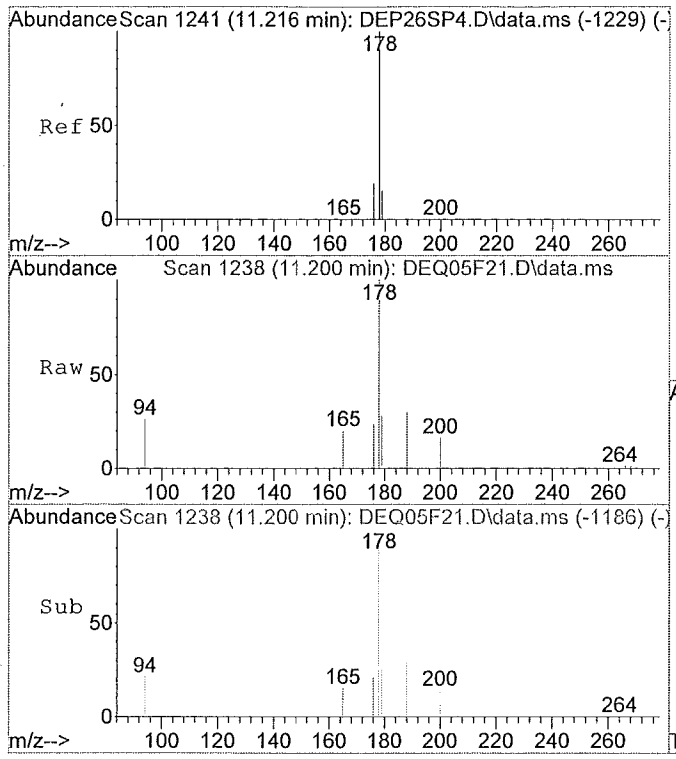
Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\25JUN15\DEQ05F21.D Vial: 45
Acq On : 06/25/2015 11:04 Operator: DJC
Sample : 1515725021 F9M99 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 12:43:21 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	5.90	136	125485	0.40 ug/ml
5) Acenaphthene-d10	8.54	164	87630	0.40 ug/ml
9) Phenanthrene-d10	11.16	188	144495	0.40 ug/ml
15) Chrysene-d12	15.35	240	155105	0.40 ug/ml
19) Perylene-d12	17.71	264	169078	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	6.83	152	59758	0.295ug/mL
13) Fluoranthene-d10	13.32	212	136091	0.344ug/mL m SY 6/25/15
Target Compounds				Qvalue
2) Naphthalene	0.00	128		Not Detected
4) 2-Methylnaphthalene	0.00	142		Not Detected
6) Acenaphthylene	0.00	152		Not Detected
7) Acenaphthene	0.00	153		Not Detected
8) Fluorene	0.00	166		Not Detected
10) Pentachlorophenol	0.00	266		Not Detected
11) Phenanthrene	11.20	178	17903	0.043ug/ml 86
12) Anthracene	0.00	178		Not Detected
14) Fluoranthene	13.35	202	33733	0.071ug/ml 66
16) Pyrene	13.70	202	54753	0.113ug/ml 1
17) Benzo(a)anthracene	15.34	228	20382	0.049ug/ml 88
18) Chrysene	15.38	228	29086	0.067ug/ml 97
20) Benzo(b)fluoranthene	16.97	252	45957	0.087ug/ml 97
21) Benzo(k)fluoranthene	17.02	252	13682	0.025ug/ml m SY 96
22) Benzo(a)pyrene	17.59	252	18511	0.037ug/ml 6/24/15 95
23) Indeno(1,2,3-c,d)pyrene	20.38	276	19832	0.045ug/ml 100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected
25) Benzo(g,h,i)perylene	0.00	276		Not Detected

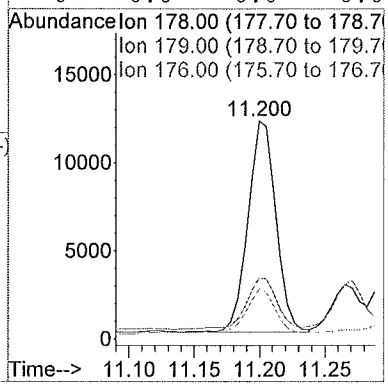
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

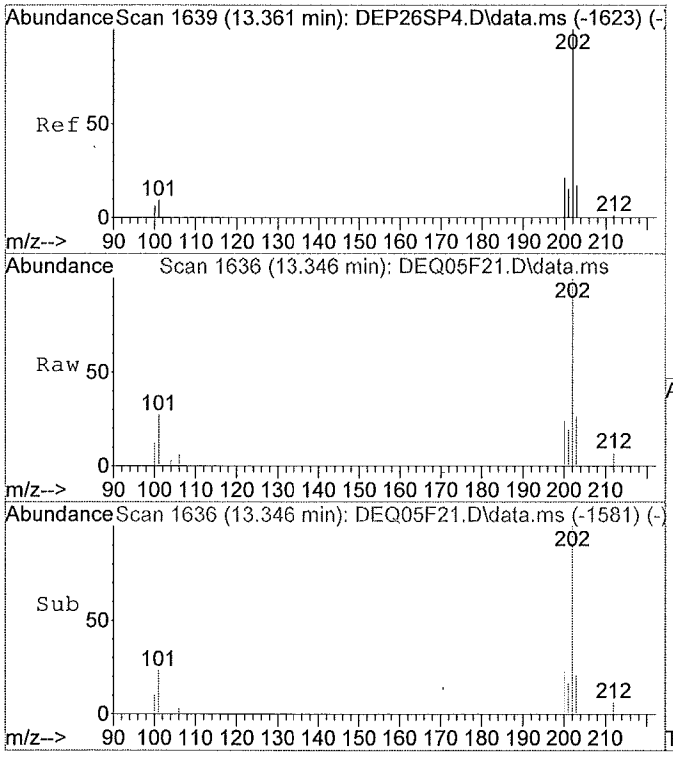


#11
Phenanthrene
Concen: 0.04 ug/ml
RT: 11.20 min Scan# 1238
Delta R.T. -0.02 min
Lab File: DEQ05F21.D
Acq: 06/25/2015 11:04

Tgt Ion:178 Resp: 17903

Ion	Ratio	Lower	Upper
178	100		
179	26.7	11.1	20.5#
176	22.3	14.1	26.1
0	0.0	0.0	0.0

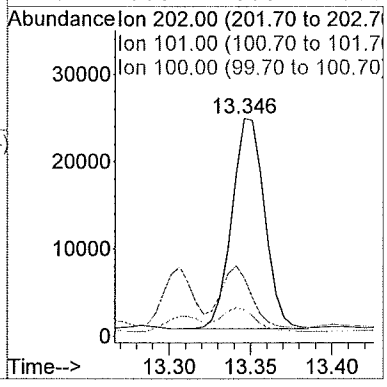




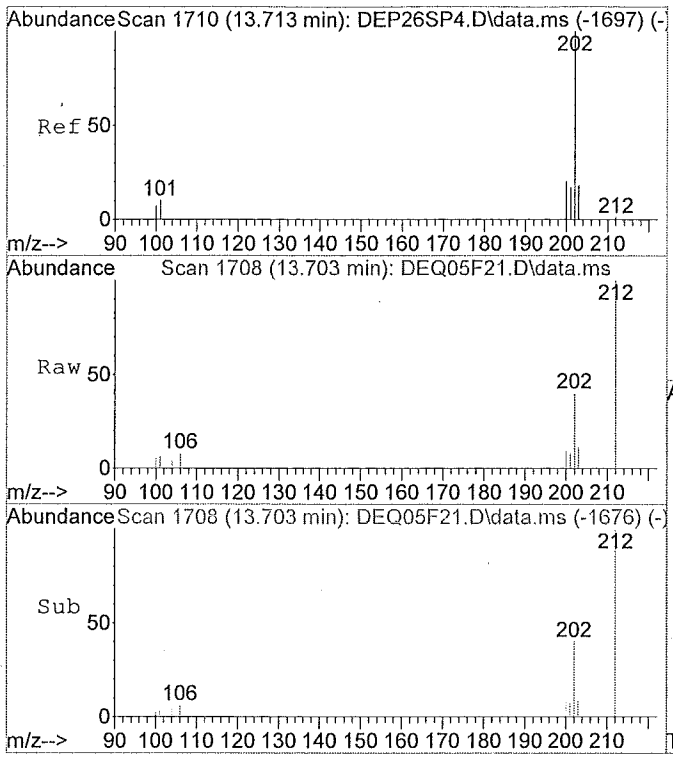
#14
Fluoranthene
Concen: 0.07 ug/ml
RT: 13.35 min Scan# 1636
Delta R.T. -0.01 min
Lab File: DEQ05F21.D
Acq: 06/25/2015 11:04

Tgt Ion:202 Resp: 33733

Ion	Ratio	Lower	Upper
202	100		
101	27.3	9.4	17.6#
100	11.1	0.0	0.0#
0	0.0	0.0	0.0



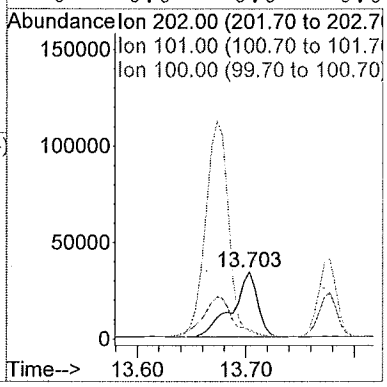
01295

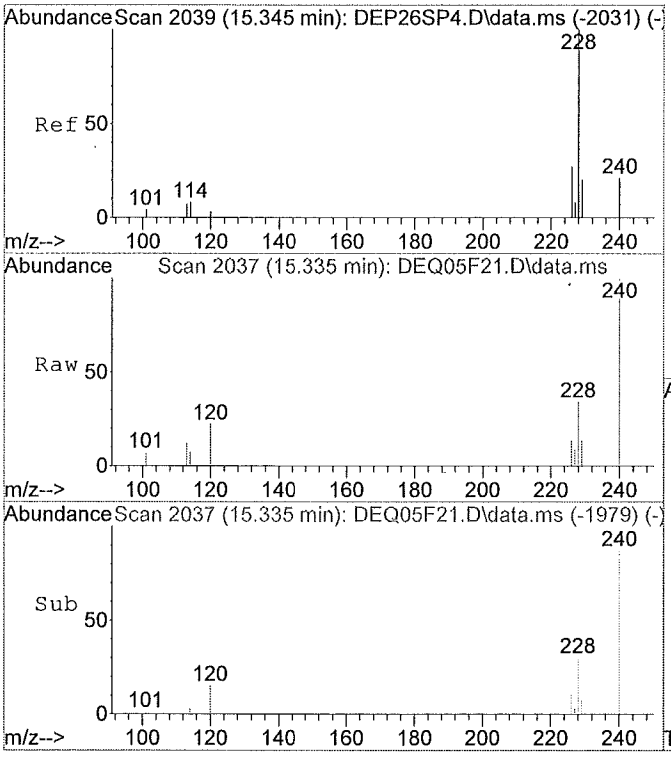


#16
Pyrene
Concen: 0.11 ug/ml
RT: 13.70 min Scan# 1708
Delta R.T. -0.01 min
Lab File: DEQ05F21.D
Acq: 06/25/2015 11:04

Tgt Ion:202 Resp: 54753

Ion	Ratio	Lower	Upper
202	100		
101	73.1	10.6	19.6#
100	313.1	9.4	17.4#
0	0.0	0.0	0.0

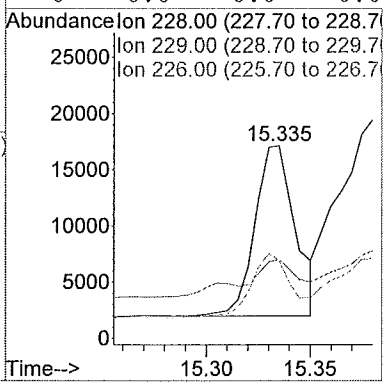


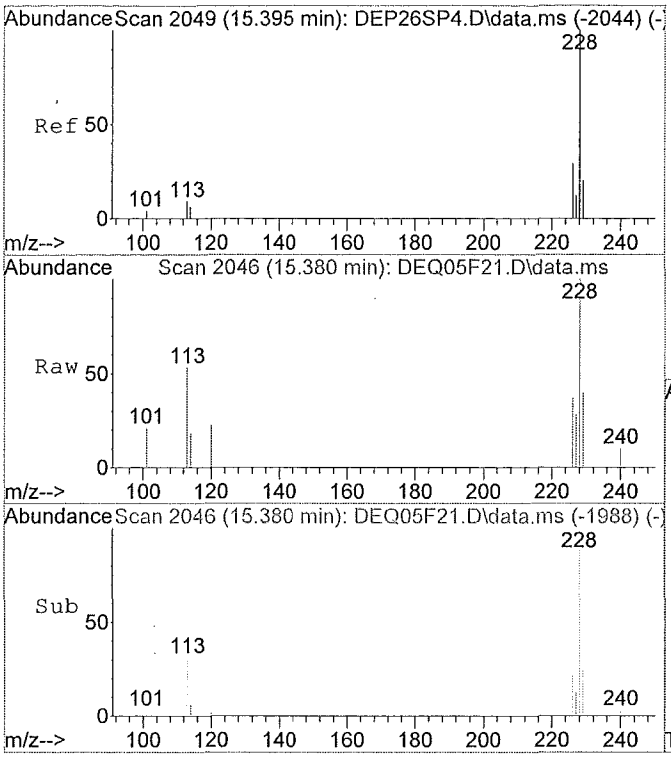


#17
Benzo(a)anthracene
Concen: 0.05 ug/ml
RT: 15.34 min Scan# 2037
Delta R.T. -0.01 min
Lab File: DEQ05F21.D
Acq: 06/25/2015 11:04

Tgt Ion:228 Resp: 20382

Ion	Ratio	Lower	Upper
228	100		
229	18.5	14.5	26.9
226	35.7	18.5	34.3#
0	0.0	0.0	0.0

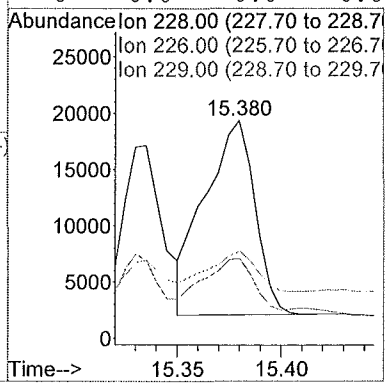


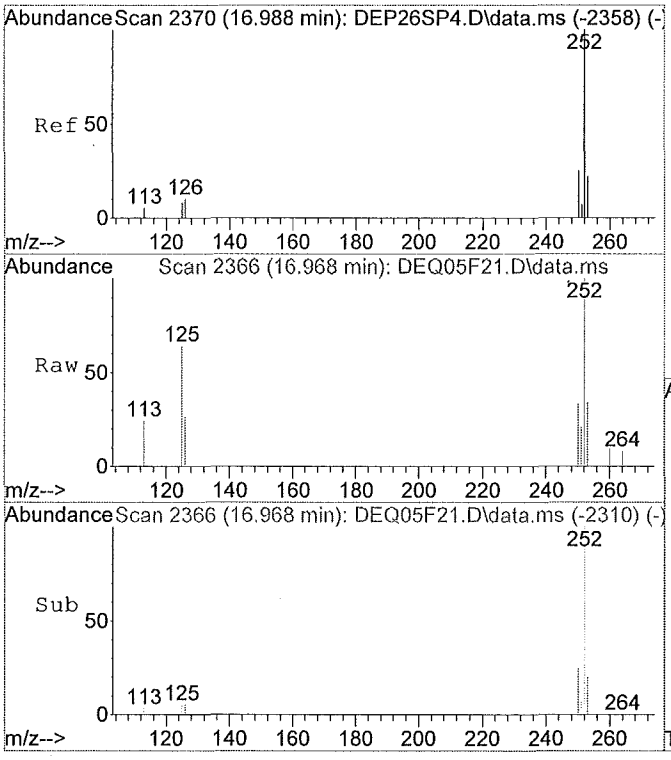


#18
Chrysene
Concen: 0.07 ug/ml
RT: 15.38 min Scan# 2046
Delta R.T. -0.01 min
Lab File: DEQ05F21.D
Acq: 06/25/2015 11:04

Tgt Ion:228 Resp: 29086

Ion	Ratio	Lower	Upper
228	100		
226	25.7	19.7	36.7
229	20.5	14.5	26.9
0	0.0	0.0	0.0

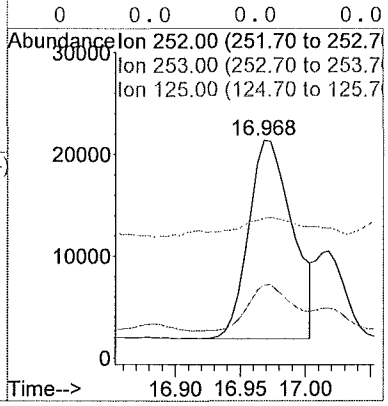


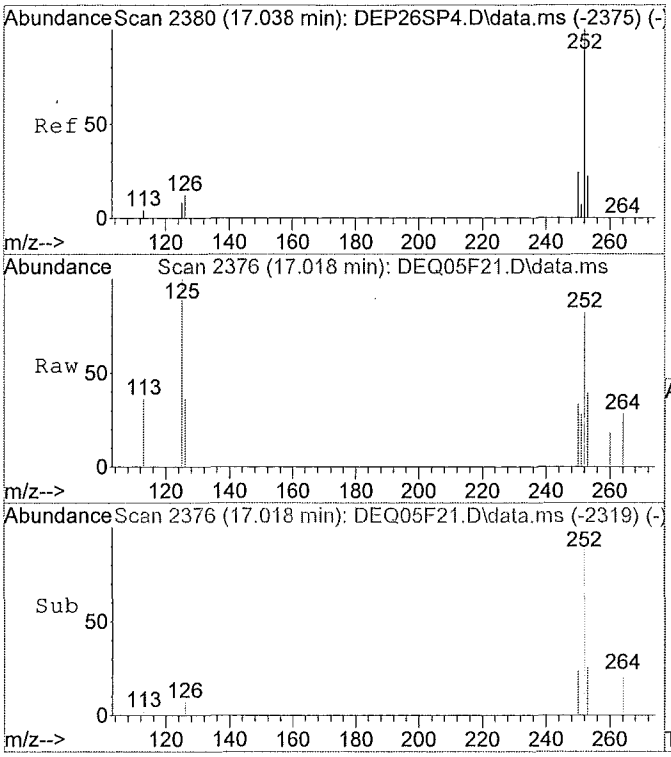


#20
Benzo(b)fluoranthene
Concen: 0.09 ug/ml
RT: 16.97 min Scan# 2366
Delta R.T. -0.01 min
Lab File: DEQ05F21.D
Acq: 06/25/2015 11:04

Tgt Ion:252 Resp: 45957

Ion	Ratio	Lower	Upper
252	100		
253	23.0	15.3	28.3
125	15.8	0.0	0.0#
0	0.0	0.0	0.0

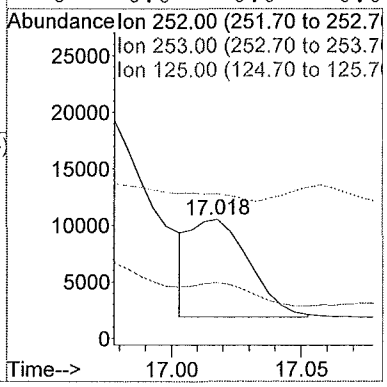


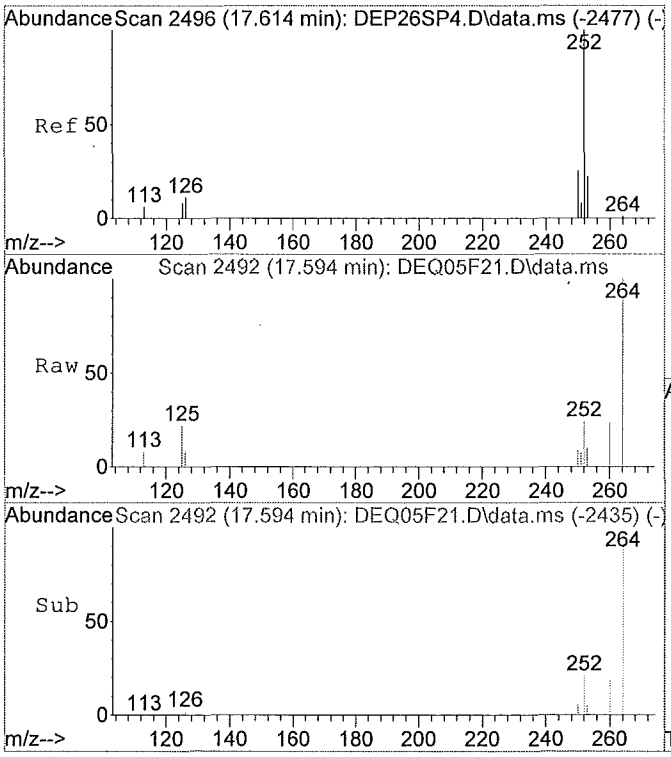


#21
Benzo(k)fluoranthene
Concen: 0.03 ug/ml m
RT: 17.02 min Scan# 2376
Delta R.T. -0.01 min
Lab File: DEQ05F21.D
Acq: 06/25/2015 11:04

Tgt Ion:252 Resp: 13682

Ion	Ratio	Lower	Upper
252	100		
253	77.8	15.0	27.8#
125	49.1	0.0	0.0#
0	0.0	0.0	0.0

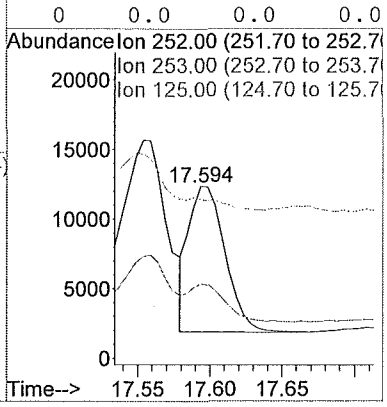




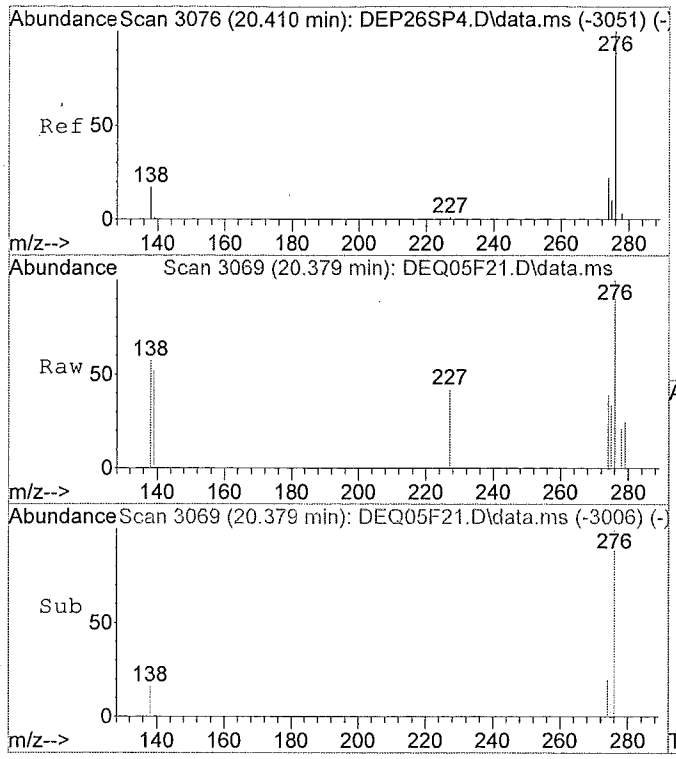
#22
Benzo(a)pyrene
Concen: 0.04 ug/ml
RT: 17.59 min Scan# 2492
Delta R.T. -0.01 min
Lab File: DEQ05F21.D
Acq: 06/25/2015 11:04

Tgt Ion:252 Resp: 18511

Ion	Ratio	Lower	Upper
252	100		
253	23.8	15.0	27.8
125	0.0	0.0	0.0
0	0.0	0.0	0.0



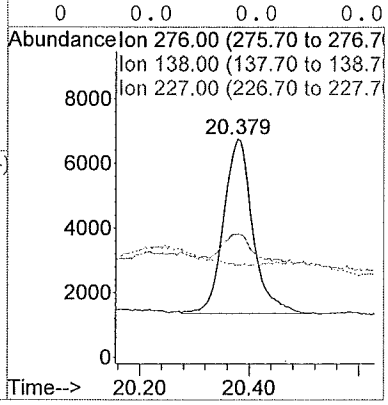
:01289



#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.04 ug/ml
RT: 20.38 min Scan# 3069
Delta R.T. -0.02 min
Lab File: DEQ05F21.D
Acq: 06/25/2015 11:04

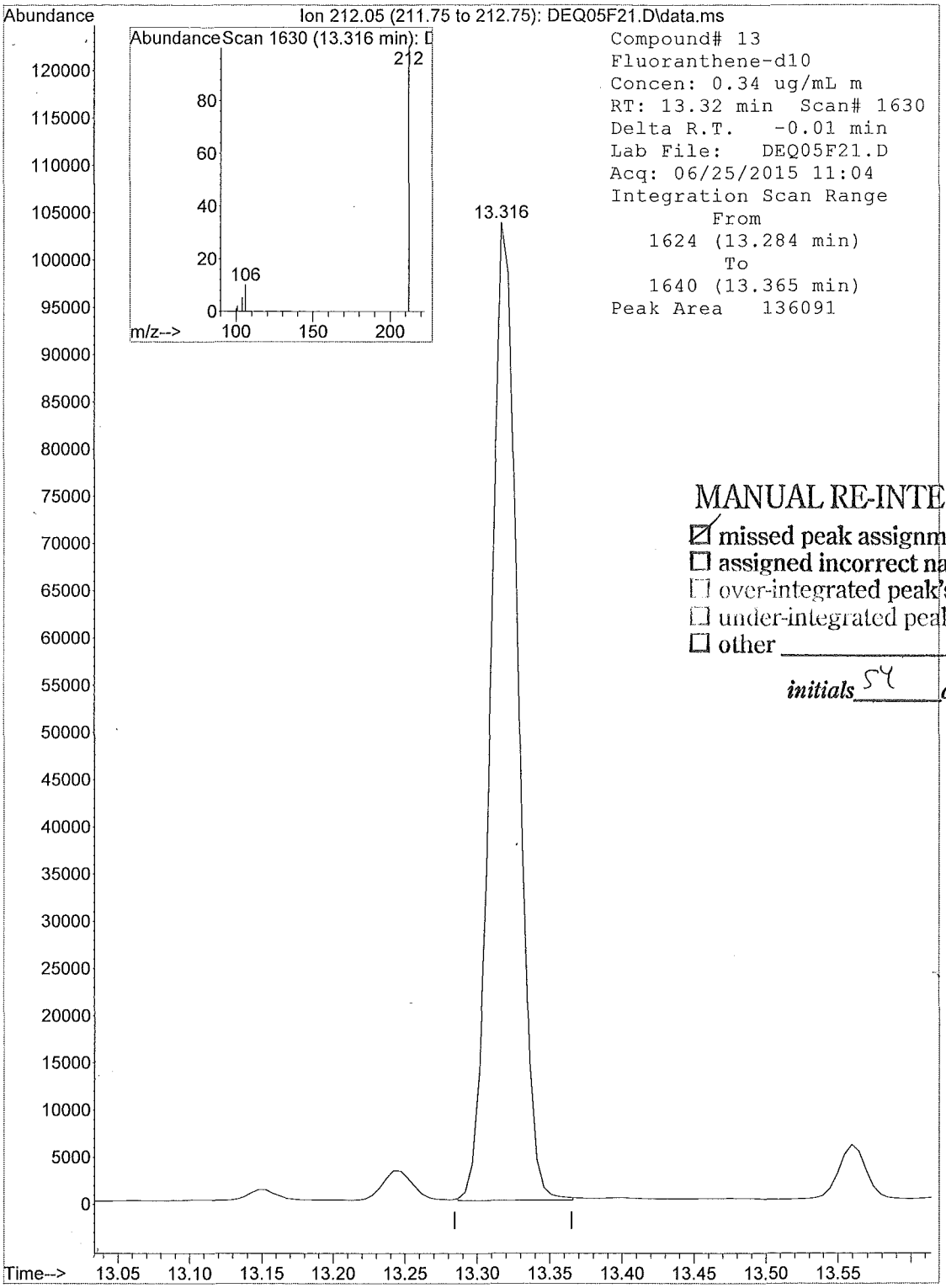
Tgt Ion:276 Resp: 19832

Ion	Ratio	Lower	Upper
276	100		
138	14.6	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0



91299

M A N U A L I N T E G R A T I O N FOR Fluoranthene-d10

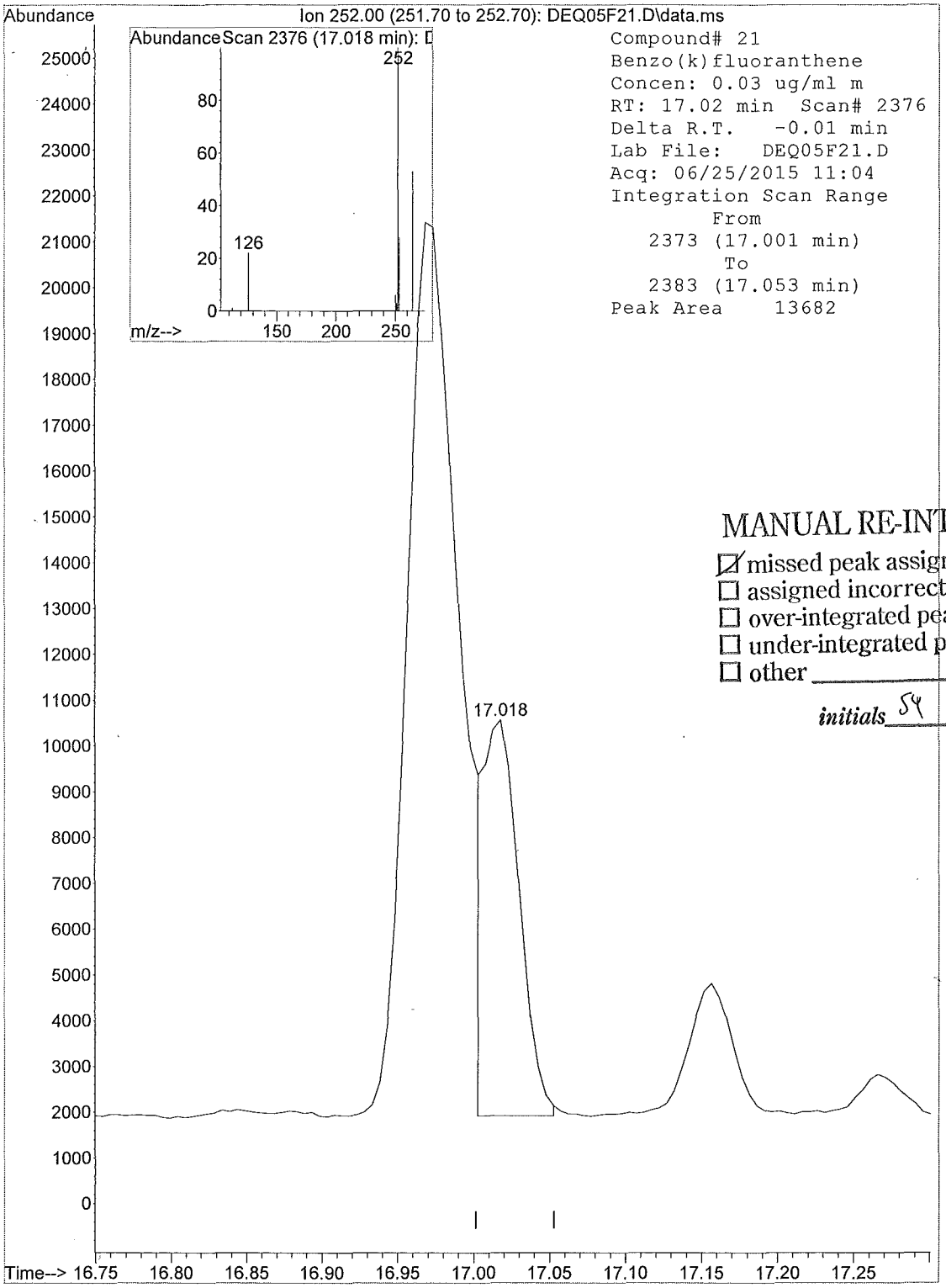


MANUAL RE-INTEGRATION

- ☑ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 6/25/15

M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

☑ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

initials SY *date* 6/25/15

6H - FORM VI SV-SIM
SEMIVOLATILE ORGANICS SIM INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-D Calibration Date(s): 03/25/2015 03/25/2015

Calibration Time(s): 09:26 11:25

LAB FILE ID: RRF 0.1 = DDG01SP1 RRF 0.2 = DDG02SP2

RRF 0.4 = DDG03SP4 RRF 0.8 = DDG04SP8 RRF 1.0 = DDG05S01

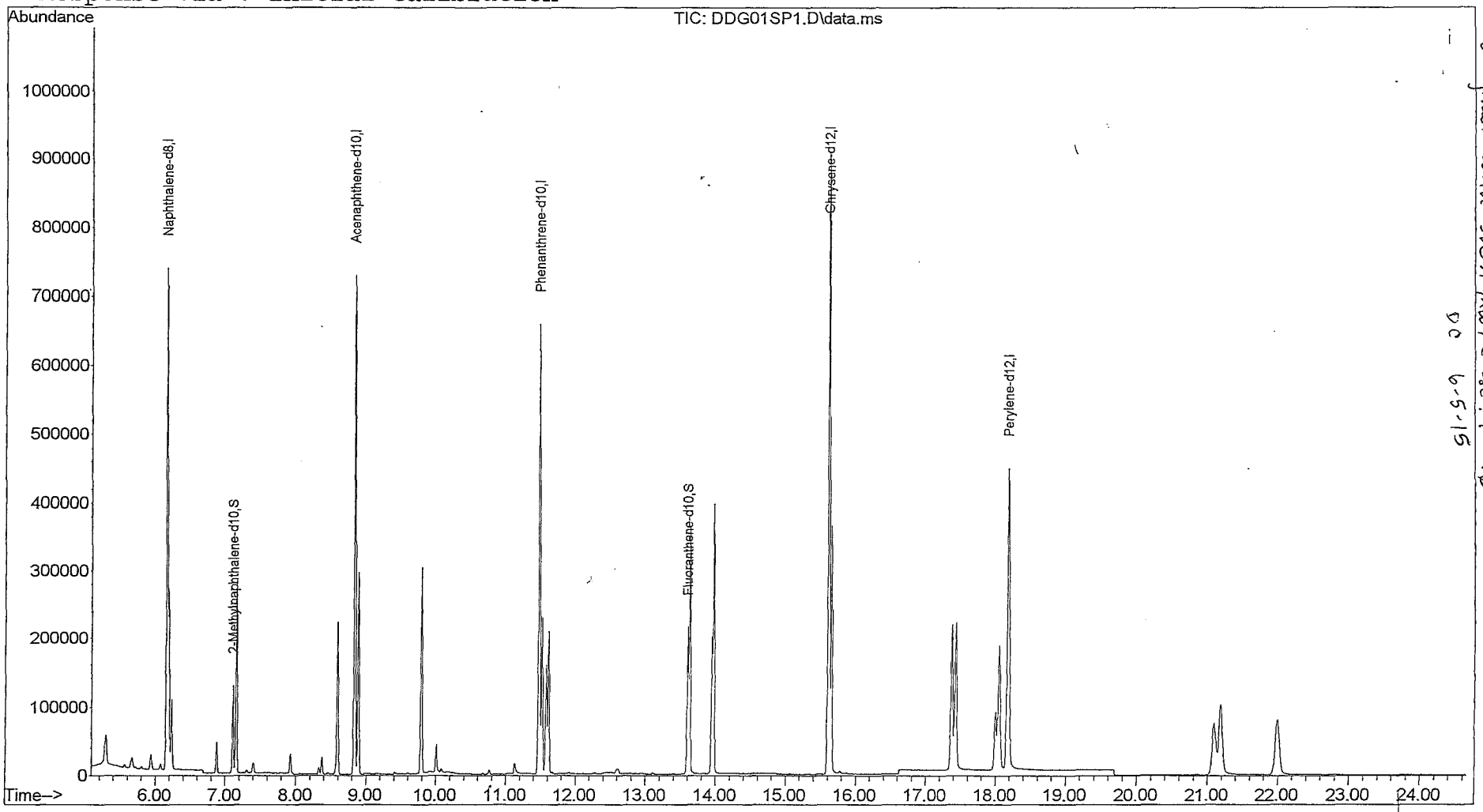
COMPOUND	RRF 0.1	RRF 0.2	RRF 0.4	RRF 0.8	RRF 1.0	$\overline{RRF}$	%RSD
Naphthalene	1.070	1.060	1.047	1.004	1.034	1.043	2.5
2-Methylnaphthalene	0.678	0.680	0.672	0.652	0.676	0.672	1.7
Acenaphthylene	1.712	1.721	1.747	1.737	1.836	1.750	2.8
Acenaphthene	1.121	1.125	1.118	1.093	1.144	1.120	1.6
Fluorene	1.280	1.294	1.298	1.276	1.346	1.299	2.1
Pentachlorophenol		0.056	0.056	0.061	0.068	0.060	9.2
Phenanthrene	1.131	1.155	1.151	1.137	1.185	1.152	1.8
Anthracene	1.055	1.099	1.118	1.135	1.193	1.120	4.5
Fluoranthene	1.292	1.281	1.291	1.320	1.370	1.311	2.8
Pyrene	1.283	1.240	1.247	1.229	1.277	1.255	1.9
Benzo(a)anthracene	1.071	1.062	1.060	1.047	1.093	1.067	1.6
Chrysene	1.126	1.135	1.131	1.101	1.143	1.127	1.4
Benzo(b)fluoranthene	1.217	1.236	1.239	1.236	1.306	1.247	2.8
Benzo(k)fluoranthene	1.226	1.279	1.305	1.295	1.353	1.292	3.6
Benzo(a)pyrene	1.103	1.165	1.201	1.211	1.276	1.191	5.3
Indeno(1,2,3-cd)pyrene	0.970	1.023	1.043	1.058	1.119	1.043	5.2
Dibenzo(a,h)anthracene	1.077	1.103	1.168	1.179	1.241	1.153	5.6
Benzo(g,h,i)perylene	1.118	1.158	1.177	1.174	1.236	1.172	3.6
Fluoranthene-d10	1.098	1.079	1.076	1.082	1.134	1.094	2.2
2-Methylnaphthalene-d10	0.656	0.654	0.647	0.624	0.646	0.645	1.9

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG01SP1.D Vial: 1
Acq On : 03/25/2015 09:26 Operator: DJC
Sample : SSTD0.1DG 27491 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Mar 25 10:15:56 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration



Original with SDG: F9KW7 Case: 45316
DC 6-5-15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG01SP1.D Vial: 1
Acq On : 03/25/2015 09:26 Operator: DJC
Sample : SSTD0.1DG 27491 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Mar 25 10:15:56 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.16	136	826415	0.40 ug/ml	
5) Acenaphthene-d10	8.83	164	500325	0.40 ug/ml	
9) Phenanthrene-d10	11.47	188	876849	0.40 ug/ml	
15) Chrysene-d12	15.61	240	937520	0.40 ug/ml	
19) Perylene-d12	18.17	264	804866	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.11	152	135515	0.100ug/mL	
13) Fluoranthene-d10	13.60	212	240674	0.100ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.19	128	221005	0.100ug/ml	93
4) 2-Methylnaphthalene	7.16	142	140108	0.100ug/ml	97
6) Acenaphthylene	8.59	152	214086	0.100ug/ml	96
7) Acenaphthene	8.89	153	140194	0.100ug/ml	98
8) Fluorene	9.79	166	160159	0.100ug/ml	100
10) Pentachlorophenol	0.00	266		No Calib #	
11) Phenanthrene	11.52	178	247892	0.100ug/ml	98
12) Anthracene	11.61	178	231218	0.100ug/ml	96
14) Fluoranthene	13.63	202	283310	0.100ug/ml	91
16) Pyrene	13.97	202	300663	0.100ug/ml	92
17) Benzo(a)anthracene	15.60	228	251019	0.100ug/ml	99
18) Chrysene	15.65	228	263840	0.100ug/ml	98
20) Benzo(b)fluoranthene	17.37	252	244834	0.100ug/ml	100
21) Benzo(k)fluoranthene	17.42	252	246626	0.100ug/ml	99
22) Benzo(a)pyrene	18.05	252	221886	0.100ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	21.09	276	195170	0.100ug/ml	100
24) Dibenzo(a,h)anthracene	21.19	278	216701	0.100ug/ml	99
25) Benzo(g,h,i)perylene	21.99	276	224998	0.100ug/ml	72

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

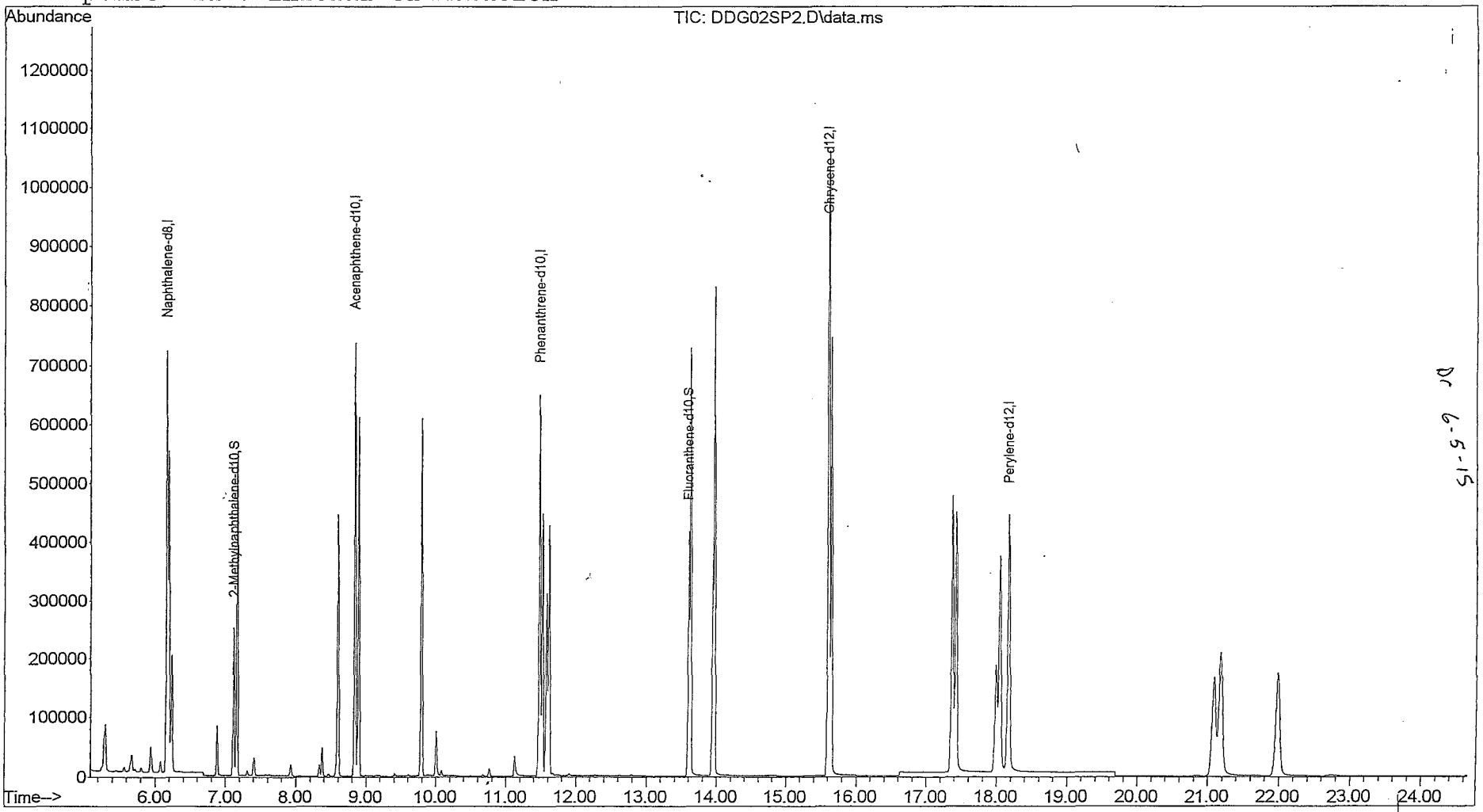
012914

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG02SP2.D Vial: 2
Acq On : 03/25/2015 09:55 Operator: DJC
Sample : SSTD0.2DG 27492 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Mar 25 10:22:59 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG02SP2.D Vial: 2
Acq On : 03/25/2015 09:55 Operator: DJC
Sample : SSTD0.2DG 27492 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Mar 25 10:22:59 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.16	136	829500	0.40 ug/ml	
5) Acenaphthene-d10	8.83	164	499450	0.40 ug/ml	
9) Phenanthrene-d10	11.47	188	862919	0.40 ug/ml	
15) Chrysene-d12	15.61	240	943009	0.40 ug/ml	
19) Perylene-d12	18.16	264	803959	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.11	152	271205	0.200ug/mL	
13) Fluoranthene-d10	13.60	212	465423	0.198ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.19	128	439776	0.199ug/ml	93
4) 2-Methylnaphthalene	7.16	142	282058	0.200ug/ml	97
6) Acenaphthylene	8.59	152	429820	0.201ug/ml	96
7) Acenaphthene	8.89	153	281062	0.200ug/ml	98
8) Fluorene	9.79	166	323083	0.201ug/ml	98
10) Pentachlorophenol	11.12	266	24051	0.200ug/ml	100
11) Phenanthrene	11.52	178	498239	0.202ug/ml	97
12) Anthracene	11.61	178	474196	0.204ug/ml	96
14) Fluoranthene	13.62	202	552655	0.199ug/ml	91
16) Pyrene	13.97	202	584822	0.197ug/ml	92
17) Benzo(a)anthracene	15.59	228	500525	0.199ug/ml	99
18) Chrysene	15.64	228	535322	0.201ug/ml	99
20) Benzo(b)fluoranthene	17.36	252	496663	0.202ug/ml	100
21) Benzo(k)fluoranthene	17.41	252	513953	0.204ug/ml	100
22) Benzo(a)pyrene	18.04	252	468152	0.205ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	21.09	276	411348	0.205ug/ml	100
24) Dibenzo(a,h)anthracene	21.17	278	443264	0.202ug/ml	98
25) Benzo(g,h,i)perylene	21.98	276	465413	0.203ug/ml	72

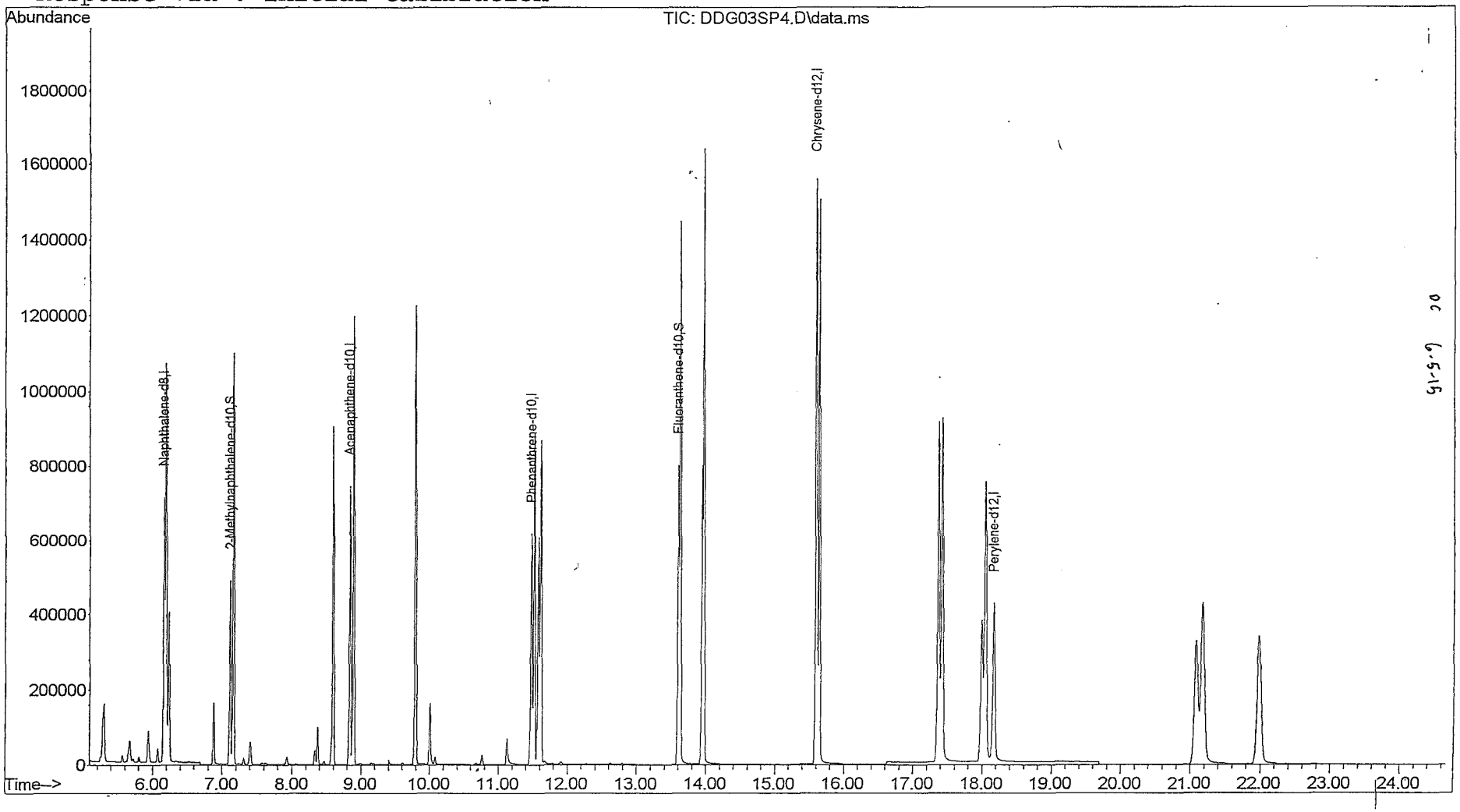
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG03SP4.D Vial: 3
Acq On : 03/25/2015 10:25 Operator: DJC
Sample : SSTD0.4DG 27493 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Mar 25 10:53:15 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG03SP4.D Vial: 3
Acq On : 03/25/2015 10:25 Operator: DJC
Sample : SSTD0.4DG 27493 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Mar 25 10:53:15 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.16	136	829952	0.40 ug/ml	
5) Acenaphthene-d10	8.83	164	496519	0.40 ug/ml	
9) Phenanthrene-d10	11.47	188	848812	0.40 ug/ml	
15) Chrysene-d12	15.61	240	931096	0.40 ug/ml	
19) Perylene-d12	18.16	264	790297	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.11	152	536757	0.395ug/mL	
13) Fluoranthene-d10	13.59	212	913687	0.396ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.19	128	868862	0.393ug/ml	93
4) 2-Methylnaphthalene	7.16	142	557588	0.396ug/ml	97
6) Acenaphthylene	8.59	152	867224	0.407ug/ml	96
7) Acenaphthene	8.89	153	555337	0.398ug/ml	98
8) Fluorene	9.79	166	644612	0.403ug/ml	98
10) Pentachlorophenol	11.12	266	47584	0.402ug/ml	100
11) Phenanthrene	11.51	178	976988	0.403ug/ml	97
12) Anthracene	11.61	178	948693	0.415ug/ml	96
14) Fluoranthene	13.62	202	1095908	0.401ug/ml	91
16) Pyrene	13.97	202	1160679	0.395ug/ml	92
17) Benzo(a)anthracene	15.59	228	986511	0.397ug/ml	99
18) Chrysene	15.64	228	1052641	0.400ug/ml	98
20) Benzo(b)fluoranthene	17.36	252	978791	0.404ug/ml	98
21) Benzo(k)fluoranthene	17.41	252	1031697	0.417ug/ml	99
22) Benzo(a)pyrene	18.04	252	949466	0.424ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	21.08	276	824139	0.419ug/ml	100
24) Dibenzo(a,h)anthracene	21.18	278	922854	0.429ug/ml	98
25) Benzo(g,h,i)perylene	21.98	276	930201	0.414ug/ml	72

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

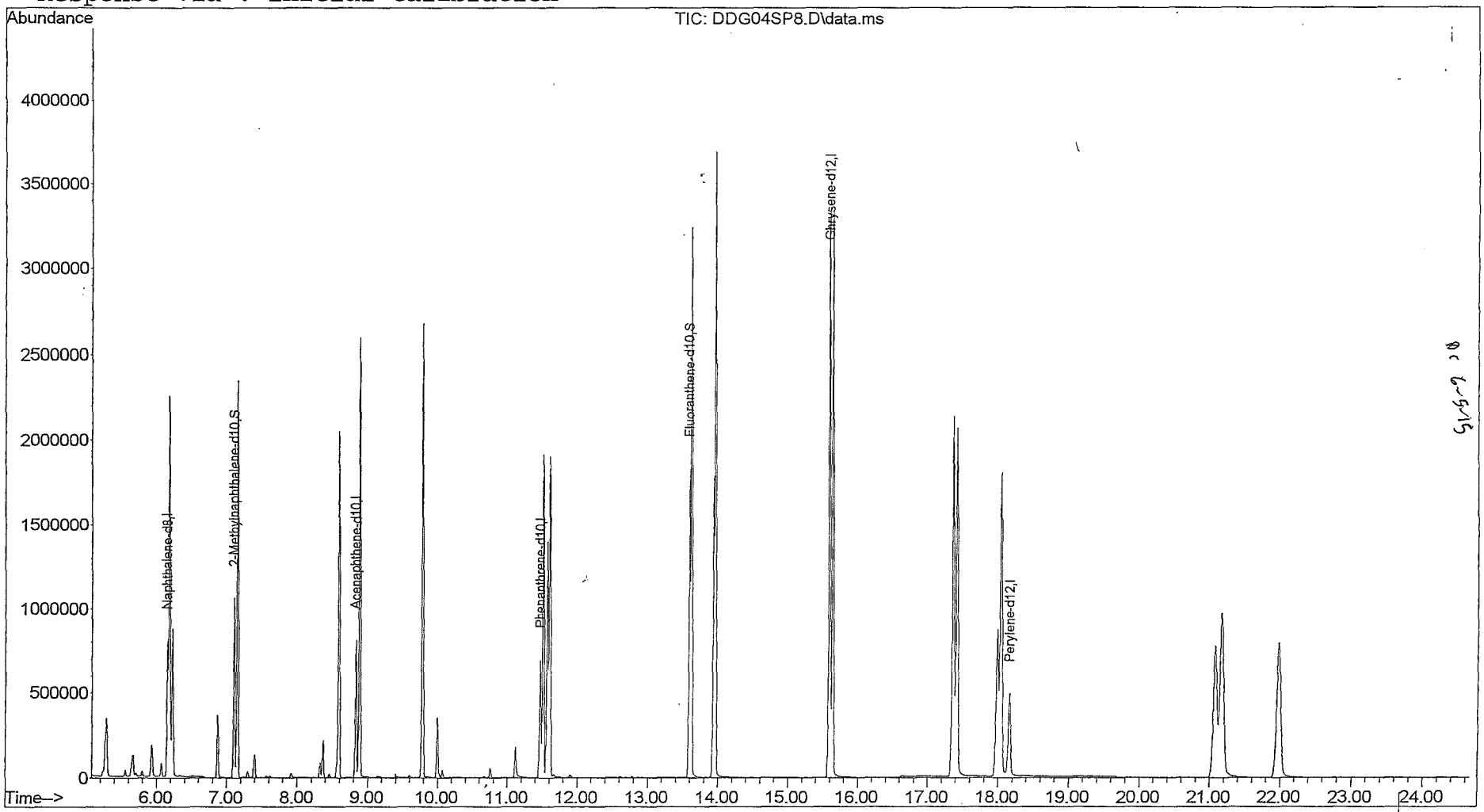
01299

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG04SP8.D Vial: 4
Acq On : 03/25/2015 10:55 Operator: DJC
Sample : SSTD0.8DG 27494 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Mar 25 11:20:22 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG04SP8.D Vial: 4
Acq On : 03/25/2015 10:55 Operator: DJC
Sample : SSTD0.8DG 27494 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Mar 25 11:20:22 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.16	136	920941	0.40 ug/ml	
5) Acenaphthene-d10	8.83	164	551221	0.40 ug/ml	
9) Phenanthrene-d10	11.47	188	930295	0.40 ug/ml	
15) Chrysene-d12	15.61	240	1059796	0.40 ug/ml	
19) Perylene-d12	18.16	264	900237	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.11	152	1150033	0.766ug/mL	
13) Fluoranthene-d10	13.60	212	2013973	0.799ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.19	128	1849404	0.759ug/ml	93
4) 2-Methylnaphthalene	7.16	142	1201438	0.771ug/ml	97
6) Acenaphthylene	8.59	152	1914904	0.805ug/ml	96
7) Acenaphthene	8.89	153	1204425	0.779ug/ml	98
8) Fluorene	9.79	166	1407005	0.791ug/ml	97
10) Pentachlorophenol	11.12	266	113063	0.870ug/ml	100
11) Phenanthrene	11.51	178	2115316	0.794ug/ml	97
12) Anthracene	11.61	178	2112202	0.833ug/ml	96
14) Fluoranthene	13.62	202	2456577	0.820ug/ml	91
16) Pyrene	13.97	202	2604313	0.782ug/ml	91
17) Benzo(a)anthracene	15.59	228	2220157	0.788ug/ml	99
18) Chrysene	15.64	228	2333590	0.779ug/ml	99
20) Benzo(b)fluoranthene	17.36	252	2225635	0.804ug/ml	100
21) Benzo(k)fluoranthene	17.41	252	2331572	0.816ug/ml	100
22) Benzo(a)pyrene	18.04	252	2180024	0.838ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	21.08	276	1904485	0.836ug/ml	100
24) Dibenzo(a,h)anthracene	21.17	278	2122556	0.845ug/ml	98
25) Benzo(g,h,i)perylene	21.98	276	2112907	0.816ug/ml	72

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

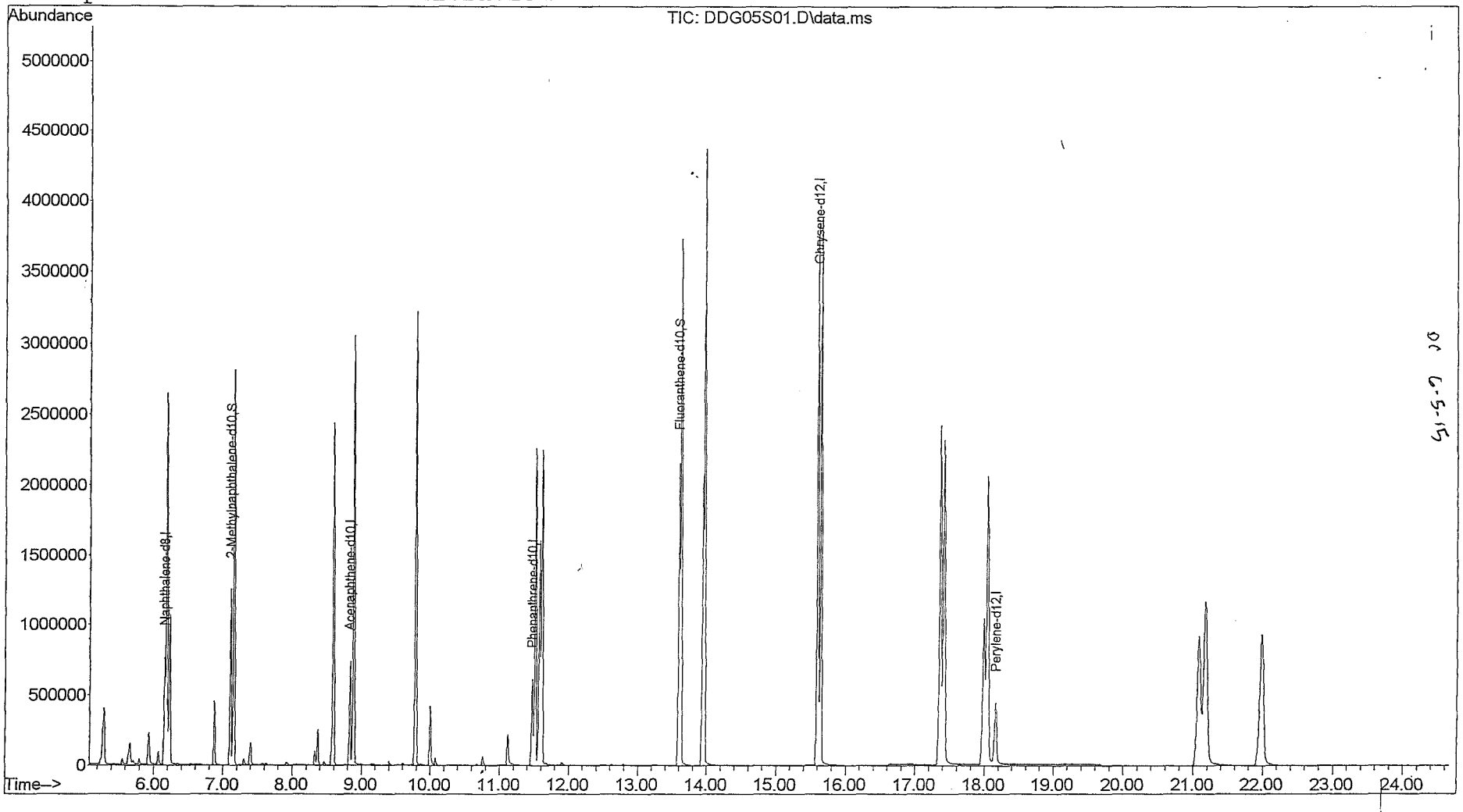
:01388

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG05S01.D Vial: 5
Acq On : 03/25/2015 11:25 Operator: DJC
Sample : SSTD001DG 27495 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Mar 25 11:50:19 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration



6-5-15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG05S01.D Vial: 5
Acq On : 03/25/2015 11:25 Operator: DJC
Sample : SSTD001DG 27495 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Mar 25 11:50:19 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.16	136	848708	0.40 ug/ml	
5) Acenaphthene-d10	8.83	164	499984	0.40 ug/ml	
9) Phenanthrene-d10	11.47	188	848866	0.40 ug/ml	
15) Chrysene-d12	15.61	240	967696	0.40 ug/ml	
19) Perylene-d12	18.16	264	809238	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.11	152	1370896	1.001ug/mL	
13) Fluoranthene-d10	13.59	212	2406449	1.046ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.19	128	2194653	0.990ug/ml	93
4) 2-Methylnaphthalene	7.16	142	1433760	1.008ug/ml	97
6) Acenaphthylene	8.59	152	2294412	1.062ug/ml	96
7) Acenaphthene	8.89	153	1429745	1.026ug/ml	98
8) Fluorene	9.79	166	1682594	1.046ug/ml	97
10) Pentachlorophenol	11.12	266	143501	1.176ug/ml	100
11) Phenanthrene	11.51	178	2514177	1.036ug/ml	97
12) Anthracene	11.61	178	2532691	1.083ug/ml	96
14) Fluoranthene	13.62	202	2908132	1.057ug/ml	91
16) Pyrene	13.97	202	3088951	1.022ug/ml	91
17) Benzo(a)anthracene	15.59	228	2644584	1.031ug/ml	99
18) Chrysene	15.64	228	2764927	1.018ug/ml	98
20) Benzo(b)fluoranthene	17.36	252	2644337	1.061ug/ml	100
21) Benzo(k)fluoranthene	17.41	252	2738771	1.061ug/ml	99
22) Benzo(a)pyrene	18.04	252	2582631	1.091ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	21.08	276	2264899	1.094ug/ml	100
24) Dibenzo(a,h)anthracene	21.17	278	2511813	1.097ug/ml	98
25) Benzo(g,h,i)perylene	21.98	276	2501128	1.069ug/ml	72

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

01382

7H - FORM VII SV-SIM
SEMIVOLATILE SIM CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-D Calibration Date: 06/24/2015 Time: 04:00

Lab File ID: DEP26SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4P3 Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

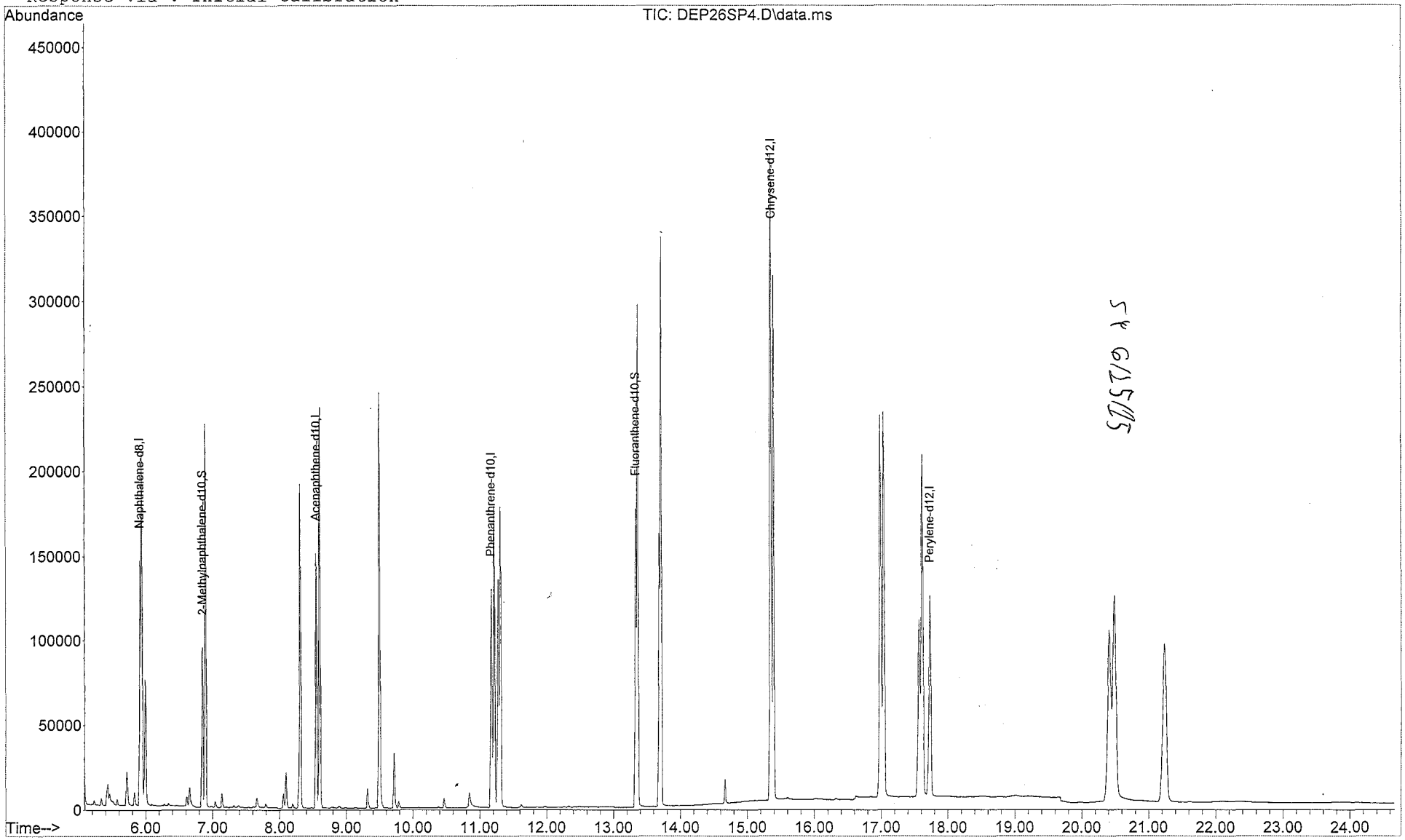
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	0.984	0.700	-5.6	25.0
2-Methylnaphthalene	0.672	0.660	0.400	-1.7	25.0
Acenaphthylene	1.750	1.731	0.900	-1.1	25.0
Acenaphthene	1.120	1.089	0.900	-2.8	25.0
Fluorene	1.299	1.267	0.900	-2.4	25.0
Pentachlorophenol	0.060	0.053	0.050	-12.2	25.0
Phenanthrene	1.152	1.081	0.700	-6.1	25.0
Anthracene	1.120	1.076	0.700	-3.9	25.0
Fluoranthene	1.311	1.271	0.600	-3.1	25.0
Pyrene	1.255	1.210	0.600	-3.6	25.0
Benzo(a)anthracene	1.067	1.159	0.800	8.7	25.0
Chrysene	1.127	1.070	0.700	-5.1	25.0
Benzo(b)fluoranthene	1.247	1.147	0.700	-8.0	25.0
Benzo(k)fluoranthene	1.292	1.129	0.700	-12.6	25.0
Benzo(a)pyrene	1.191	1.117	0.700	-6.2	25.0
Indeno(1,2,3-cd)pyrene	1.043	1.132	0.500	8.6	25.0
Dibenzo(a,h)anthracene	1.153	1.189	0.400	3.1	25.0
Benzo(g,h,i)perylene	1.172	1.153	0.500	-1.7	25.0
Fluoranthene-d10	1.094	1.109	0.010	1.4	25.0
2-Methylnaphthalene-d10	0.645	0.646	0.010	0.1	25.0

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP26SP4.D Vial: 24
Acq On : 06/24/2015 04:00 Operator: DJC
Sample : SSTD0.4P3 28477 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 24 04:25:33 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP26SP4.D Vial: 24
Acq On : 06/24/2015 04:00 Operator: DJC
Sample : SSTD0.4P3 28477 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 24 04:25:33 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.91	136	162728	0.40 ug/ml	
5) Acenaphthene-d10	8.55	164	101993	0.40 ug/ml	
9) Phenanthrene-d10	11.18	188	180329	0.40 ug/ml	
15) Chrysene-d12	15.36	240	199555	0.40 ug/ml	
19) Perylene-d12	17.73	264	203736	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.85	152	105148	0.400ug/mL	
13) Fluoranthene-d10	13.33	212	199980	0.406ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.94	128	160158	0.377ug/ml	94
4) 2-Methylnaphthalene	6.90	142	107481	0.393ug/ml	98
6) Acenaphthylene	8.31	152	176561	0.396ug/ml	97
7) Acenaphthene	8.61	153	111112	0.389ug/ml	99
8) Fluorene	9.50	166	129265	0.390ug/ml	99
10) Pentachlorophenol	10.85	266	9511	0.351ug/ml	100
11) Phenanthrene	11.22	178	194955	0.375ug/ml	98
12) Anthracene	11.31	178	194044	0.384ug/ml	97
14) Fluoranthene	13.36	202	229137	0.388ug/ml	89
16) Pyrene	13.71	202	241541	0.386ug/ml	89
17) Benzo(a)anthracene	15.35	228	231329	0.435ug/ml	98
18) Chrysene	15.39	228	213470	0.380ug/ml	96
20) Benzo(b)fluoranthene	16.99	252	233660	0.368ug/ml	100
21) Benzo(k)fluoranthene	17.04	252	229989	0.350ug/ml	100
22) Benzo(a)pyrene	17.61	252	227504	0.375ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.41	276	230706	0.434ug/ml	100
24) Dibenzo(a,h)anthracene	20.49	278	242292	0.412ug/ml	98
25) Benzo(g,h,i)perylene	21.24	276	234857	0.393ug/ml	71

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

01385

7H - FORM VII SV-SIM
SEMIVOLATILE SIM CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-D Calibration Date: 06/24/2015 Time: 14:04

Lab File ID: DEP46SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4P4 Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

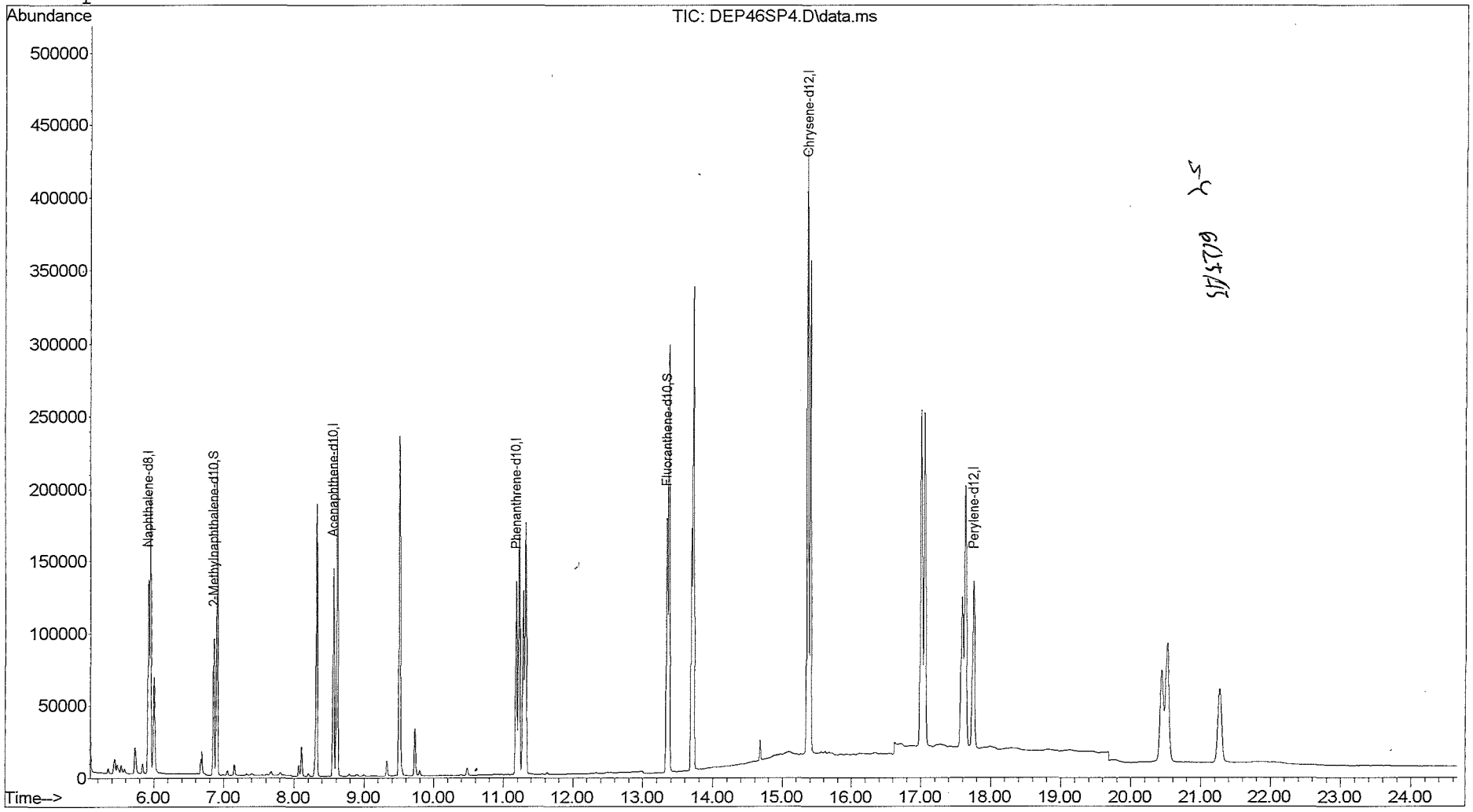
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	1.024	0.010	-1.9	50.0
2-Methylnaphthalene	0.672	0.688	0.010	2.4	50.0
Acenaphthylene	1.750	1.795	0.010	2.5	50.0
Acenaphthene	1.120	1.132	0.010	1.1	50.0
Fluorene	1.299	1.320	0.010	1.6	50.0
Pentachlorophenol	0.060	0.005	0.010	-91.1	50.0
Phenanthrene	1.152	1.064	0.010	-7.6	50.0
Anthracene	1.120	1.060	0.010	-5.3	50.0
Fluoranthene	1.311	1.284	0.010	-2.1	50.0
Pyrene	1.255	1.112	0.010	-11.4	50.0
Benzo(a)anthracene	1.067	1.136	0.010	6.6	50.0
Chrysene	1.127	1.035	0.010	-8.1	50.0
Benzo(b)fluoranthene	1.247	1.228	0.010	-1.5	50.0
Benzo(k)fluoranthene	1.292	1.184	0.010	-8.3	50.0
Benzo(a)pyrene	1.191	1.099	0.010	-7.7	50.0
Indeno(1,2,3-cd)pyrene	1.043	0.752	0.010	-27.8	50.0
Dibenzo(a,h)anthracene	1.153	0.824	0.010	-28.6	50.0
Benzo(g,h,i)perylene	1.172	0.654	0.010	-44.2	50.0
Fluoranthene-d10	1.094	1.133	0.010	3.5	50.0
2-Methylnaphthalene-d10	0.645	0.678	0.010	5.1	50.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...\23JUN15PM\DEP46SP4.D Vial: 46
Acq On : 06/24/2015 14:04 Operator: DJC
Sample : SSTD0.4P4 28477 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 24 14:28:56 2015 Results File: DSOM_SIMJ2.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Thu Jun 25 10:16:08 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...\23JUN15PM\DEP46SP4.D Vial: 46
Acq On : 06/24/2015 14:04 Operator: DJC
Sample : SSTD0.4P4 28477 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 24 14:28:56 2015 Results File: DSOM_SIMJ2.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Thu Jun 25 10:16:08 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	
1) Naphthalene-d8	5.92	136	151226	0.40	ug/ml	
5) Acenaphthene-d10	8.56	164	95579	0.40	ug/ml	
9) Phenanthrene-d10	11.18	188	179558	0.40	ug/ml	
15) Chrysene-d12	15.37	240	219522	0.40	ug/ml	
19) Perylene-d12	17.75	264	197848	0.40	ug/ml	
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	6.86	152	102591	0.420	ug/mL	
13) Fluoranthene-d10	13.34	212	203377	0.414	ug/mL	
Target Compounds						Qvalue
2) Naphthalene	5.95	128	154818	0.393	ug/ml	94
4) 2-Methylnaphthalene	6.90	142	104023	0.410	ug/ml	98
6) Acenaphthylene	8.32	152	171542	0.410	ug/ml	97
7) Acenaphthene	8.61	153	108233	0.404	ug/ml	98
8) Fluorene	9.51	166	126125	0.406	ug/ml	100
10) Pentachlorophenol	10.88	266	963	0.036	ug/ml	100
11) Phenanthrene	11.23	178	191061	0.370	ug/ml	98
12) Anthracene	11.32	178	190398	0.379	ug/ml	97
14) Fluoranthene	13.37	202	230529	0.392	ug/ml	89
16) Pyrene	13.72	202	244213	0.355	ug/ml	89
17) Benzo(a)anthracene	15.35	228	249472	0.426	ug/ml	98
18) Chrysene	15.40	228	227278	0.367	ug/ml	97
20) Benzo(b)fluoranthene	17.00	252	243018	0.394	ug/ml	100
21) Benzo(k)fluoranthene	17.05	252	234239	0.367	ug/ml	99
22) Benzo(a)pyrene	17.63	252	217483	0.369	ug/ml	100
23) Indeno(1,2,3-c,d)pyrene	20.44	276	148857	0.289	ug/ml	100
24) Dibenzo(a,h)anthracene	20.52	278	162967	0.286	ug/ml	99
25) Benzo(g,h,i)perylene	21.27	276	129364	0.223	ug/ml	71

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

7H - FORM VII SV-SIM
SEMIVOLATILE SIM CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-D Calibration Date: 06/25/2015 Time: 09:03

Lab File ID: DEQ01SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4DP Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

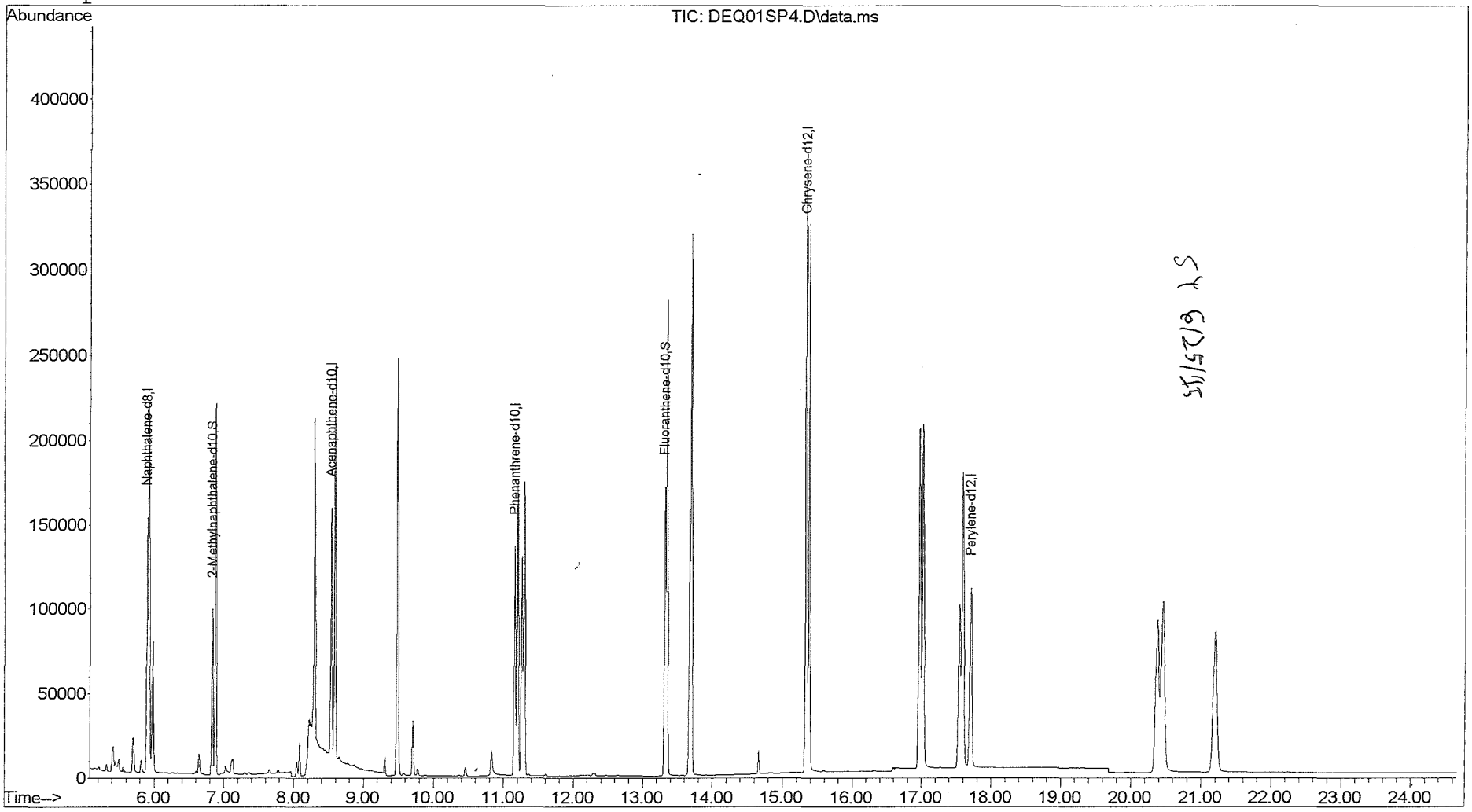
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	1.027	0.700	-1.5	25.0
2-Methylnaphthalene	0.672	0.659	0.400	-1.9	25.0
Acenaphthylene	1.750	1.808	0.900	3.3	25.0
Acenaphthene	1.120	1.125	0.900	0.4	25.0
Fluorene	1.299	1.272	0.900	-2.1	25.0
Pentachlorophenol	0.060	0.063	0.050	4.5	25.0
Phenanthrene	1.152	1.074	0.700	-6.7	25.0
Anthracene	1.120	1.052	0.700	-6.1	25.0
Fluoranthene	1.311	1.248	0.600	-4.8	25.0
Pyrene	1.255	1.198	0.600	-4.5	25.0
Benzo(a)anthracene	1.067	1.111	0.800	4.2	25.0
Chrysene	1.127	1.048	0.700	-7.0	25.0
Benzo(b)fluoranthene	1.247	1.155	0.700	-7.3	25.0
Benzo(k)fluoranthene	1.292	1.113	0.700	-13.8	25.0
Benzo(a)pyrene	1.191	1.090	0.700	-8.4	25.0
Indeno(1,2,3-cd)pyrene	1.043	1.112	0.500	6.7	25.0
Dibenzo(a,h)anthracene	1.153	1.117	0.400	-3.2	25.0
Benzo(g,h,i)perylene	1.172	1.144	0.500	-2.5	25.0
Fluoranthene-d10	1.094	1.088	0.010	-0.5	25.0
2-Methylnaphthalene-d10	0.645	0.653	0.010	1.2	25.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\25JUN15\DEQ01SP4.D Vial: 46
Acq On : 06/25/2015 09:03 Operator: DJC
Sample : SSTD0.4P4 28477 Inst : 5975-D
Misc : . X7-19-15 clean liner Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 25 09:40:47 2015 Results File: DSOM_SIMJ2.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Thu Jun 25 10:23:35 2015
Response via : Initial Calibration



SS 6/25/15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\25JUN15\DEQ01SP4.D Vial: 46
Acq On : 06/25/2015 09:03 Operator: DJC
Sample : SSTD0.4P4 28477 Inst : 5975-D
Misc : . X7-19-15 clean liner Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 25 09:40:47 2015 Results File: DSOM_SIMJ2.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Thu Jun 25 10:23:35 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	
1) Naphthalene-d8	5.90	136	165765	0.40	ug/ml	
5) Acenaphthene-d10	8.54	164	99303	0.40	ug/ml	
9) Phenanthrene-d10	11.16	188	176751	0.40	ug/ml	
15) Chrysene-d12	15.35	240	194813	0.40	ug/ml	
19) Perylene-d12	17.71	264	186496	0.40	ug/ml	
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	6.83	152	108266	0.405	ug/mL	
13) Fluoranthene-d10	13.32	212	192337	0.398	ug/mL	
Target Compounds						Qvalue
2) Naphthalene	5.92	128	170252	0.394	ug/ml	95
4) 2-Methylnaphthalene	6.88	142	109213	0.392	ug/ml	98
6) Acenaphthylene	8.30	152	179572	0.413	ug/ml	97
7) Acenaphthene	8.59	153	111667	0.402	ug/ml	99
8) Fluorene	9.48	166	126296	0.392	ug/ml	98
10) Pentachlorophenol	10.83	266	11087	0.418	ug/ml	100
11) Phenanthrene	11.21	178	189889	0.373	ug/ml	98
12) Anthracene	11.30	178	185909	0.376	ug/ml	97
14) Fluoranthene	13.35	202	220622	0.381	ug/ml	89
16) Pyrene	13.70	202	233467	0.382	ug/ml	89
17) Benzo(a)anthracene	15.33	228	216516	0.417	ug/ml	98
18) Chrysene	15.38	228	204221	0.372	ug/ml	97
20) Benzo(b)fluoranthene	16.97	252	215437	0.371	ug/ml	100
21) Benzo(k)fluoranthene	17.02	252	207539	0.345	ug/ml	100
22) Benzo(a)pyrene	17.59	252	203368	0.366	ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.38	276	207456	0.427	ug/ml	100
24) Dibenzo(a,h)anthracene	20.46	278	208279	0.387	ug/ml	98
25) Benzo(g,h,i)perylene	21.20	276	213265	0.390	ug/ml	71

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

7H - FORM VII SV-SIM
SEMIVOLATILE SIM CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: 5975-D Calibration Date: 06/25/2015 Time: 12:04

Lab File ID: DEQ07SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4P5 Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

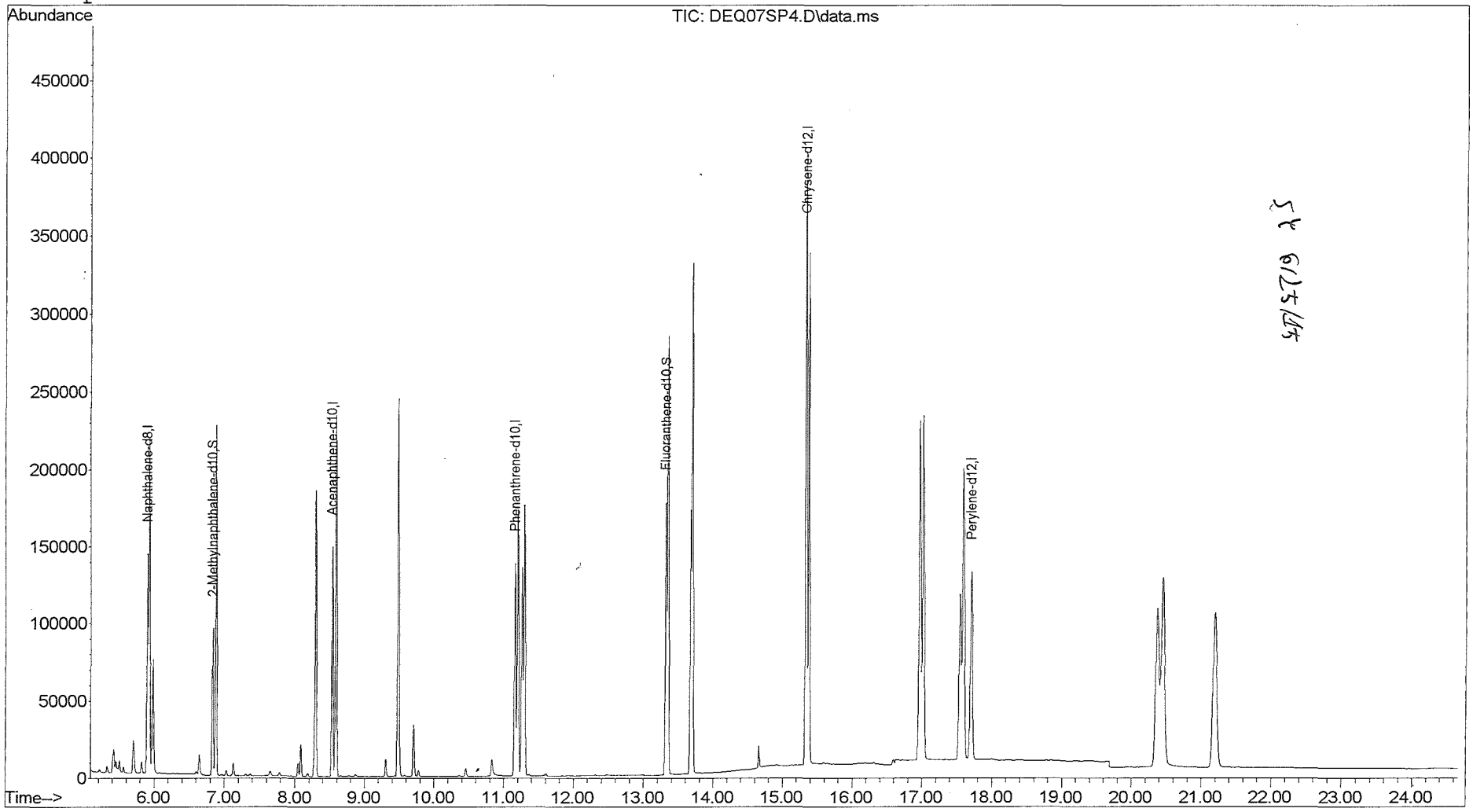
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	1.020	0.010	-2.2	50.0
2-Methylnaphthalene	0.672	0.671	0.010	0.0	50.0
Acenaphthylene	1.750	1.791	0.010	2.3	50.0
Acenaphthene	1.120	1.129	0.010	0.8	50.0
Fluorene	1.299	1.305	0.010	0.5	50.0
Pentachlorophenol	0.060	0.047	0.010	-22.4	50.0
Phenanthrene	1.152	1.069	0.010	-7.2	50.0
Anthracene	1.120	1.058	0.010	-5.6	50.0
Fluoranthene	1.311	1.266	0.010	-3.4	50.0
Pyrene	1.255	1.173	0.010	-6.6	50.0
Benzo(a)anthracene	1.067	1.123	0.010	5.3	50.0
Chrysene	1.127	1.044	0.010	-7.4	50.0
Benzo(b)fluoranthene	1.247	1.130	0.010	-9.4	50.0
Benzo(k)fluoranthene	1.292	1.093	0.010	-15.3	50.0
Benzo(a)pyrene	1.191	1.086	0.010	-8.8	50.0
Indeno(1,2,3-cd)pyrene	1.043	1.161	0.010	11.3	50.0
Dibenzo(a,h)anthracene	1.153	1.166	0.010	1.1	50.0
Benzo(g,h,i)perylene	1.172	1.194	0.010	1.9	50.0
Fluoranthene-d10	1.094	1.116	0.010	2.1	50.0
2-Methylnaphthalene-d10	0.645	0.660	0.010	2.2	50.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\25JUN15\DEQ07SP4.D Vial: 46
Acq On : 06/25/2015 12:04 Operator: DJC
Sample : SSTD0.4P5 28477 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 25 12:29:39 2015 Results File: DSOM_SIMJ2.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Thu Jun 25 12:30:28 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\25JUN15\DEQ07SP4.D Vial: 46
Acq On : 06/25/2015 12:04 Operator: DJC
Sample : SSTD0.4P5 28477 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 25 12:29:39 2015 Results File: DSOM_SIMJ2.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Thu Jun 25 12:30:28 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.90	136	160729	0.40 ug/ml	
5) Acenaphthene-d10	8.54	164	98703	0.40 ug/ml	
9) Phenanthrene-d10	11.16	188	181846	0.40 ug/ml	
15) Chrysene-d12	15.34	240	207182	0.40 ug/ml	
19) Perylene-d12	17.70	264	207813	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.84	152	106062	0.409ug/mL	
13) Fluoranthene-d10	13.32	212	203026	0.408ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.93	128	163945	0.391ug/ml	94
4) 2-Methylnaphthalene	6.88	142	107921	0.400ug/ml	98
6) Acenaphthylene	8.30	152	176782	0.409ug/ml	97
7) Acenaphthene	8.59	153	111400	0.403ug/ml	99
8) Fluorene	9.48	166	128826	0.402ug/ml	100
10) Pentachlorophenol	10.83	266	8471	0.310ug/ml	100
11) Phenanthrene	11.20	178	194429	0.371ug/ml	98
12) Anthracene	11.29	178	192311	0.378ug/ml	97
14) Fluoranthene	13.35	202	230282	0.386ug/ml	88
16) Pyrene	13.70	202	242982	0.374ug/ml	89
17) Benzo(a)anthracene	15.33	228	232602	0.421ug/ml	98
18) Chrysene	15.38	228	216257	0.370ug/ml	97
20) Benzo(b)fluoranthene	16.97	252	234829	0.363ug/ml	100
21) Benzo(k)fluoranthene	17.02	252	227202	0.339ug/ml	99
22) Benzo(a)pyrene	17.59	252	225679	0.365ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.37	276	241191	0.445ug/ml	100
24) Dibenzo(a,h)anthracene	20.45	278	242330	0.404ug/ml	99
25) Benzo(g,h,i)perylene	21.19	276	248189	0.407ug/ml	71

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK31

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 451431

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DEP42BLK

Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/15/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/24/2015

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

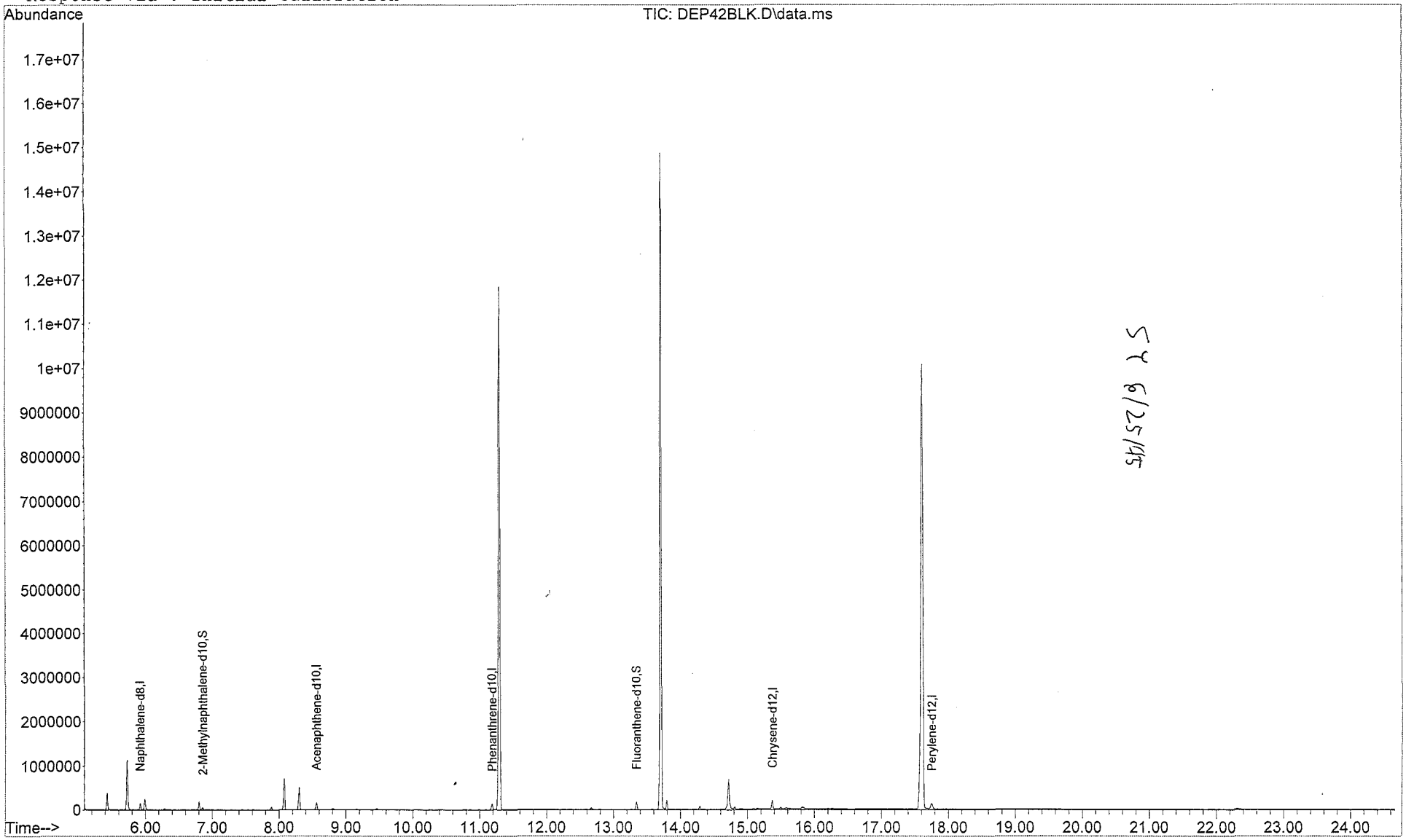
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.3	U
91-57-6	2-Methylnaphthalene	3.3	U
208-96-8	Acenaphthylene	3.3	U
83-32-9	Acenaphthene	3.3	U
86-73-7	Fluorene	3.3	U
87-86-5	Pentachlorophenol	6.7	U
85-01-8	Phenanthrene	3.3	U
120-12-7	Anthracene	3.3	U
206-44-0	Fluoranthene	3.3	U
129-00-0	Pyrene	3.3	U
56-55-3	Benzo(a)anthracene	3.3	U
218-01-9	Chrysene	3.3	U
205-99-2	Benzo(b)fluoranthene	3.3	U
207-08-9	Benzo(k)fluoranthene	3.3	U
50-32-8	Benzo(a)pyrene	3.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.3	U
53-70-3	Dibenzo(a,h)anthracene	3.3	U
191-24-2	Benzo(g,h,i)perylene	3.3	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP42BLK.D Vial: 25
Acq On : 06/24/2015 12:02 Operator: DJC
Sample : 451431 SBLK31 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 25 10:36:57 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



6/25/15

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP42BLK.D Vial: 25
Acq On : 06/24/2015 12:02 Operator: DJC
Sample : 451431 SBLK31 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 25 10:36:57 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Naphthalene-d8	5.92	136	156143	0.40	ug/ml
5) Acenaphthene-d10	8.56	164	108763	0.40	ug/ml
9) Phenanthrene-d10	11.18	188	184737	0.40	ug/ml
15) Chrysene-d12	15.37	240	214000	0.40	ug/ml
19) Perylene-d12	17.75	264	220704	0.40	ug/ml
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.86	152	58084	0.231	ug/mL
13) Fluoranthene-d10	13.34	212	197904	0.392	ug/mL
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	0.00	178		Not Detected	
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	0.00	202		Not Detected	
16) Pyrene	0.00	202		Not Detected	
17) Benzo(a)anthracene	0.00	228		Not Detected	
18) Chrysene	0.00	228		Not Detected	
20) Benzo(b)fluoranthene	0.00	252		Not Detected	
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	0.00	252		Not Detected	
23) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	0.00	276		Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

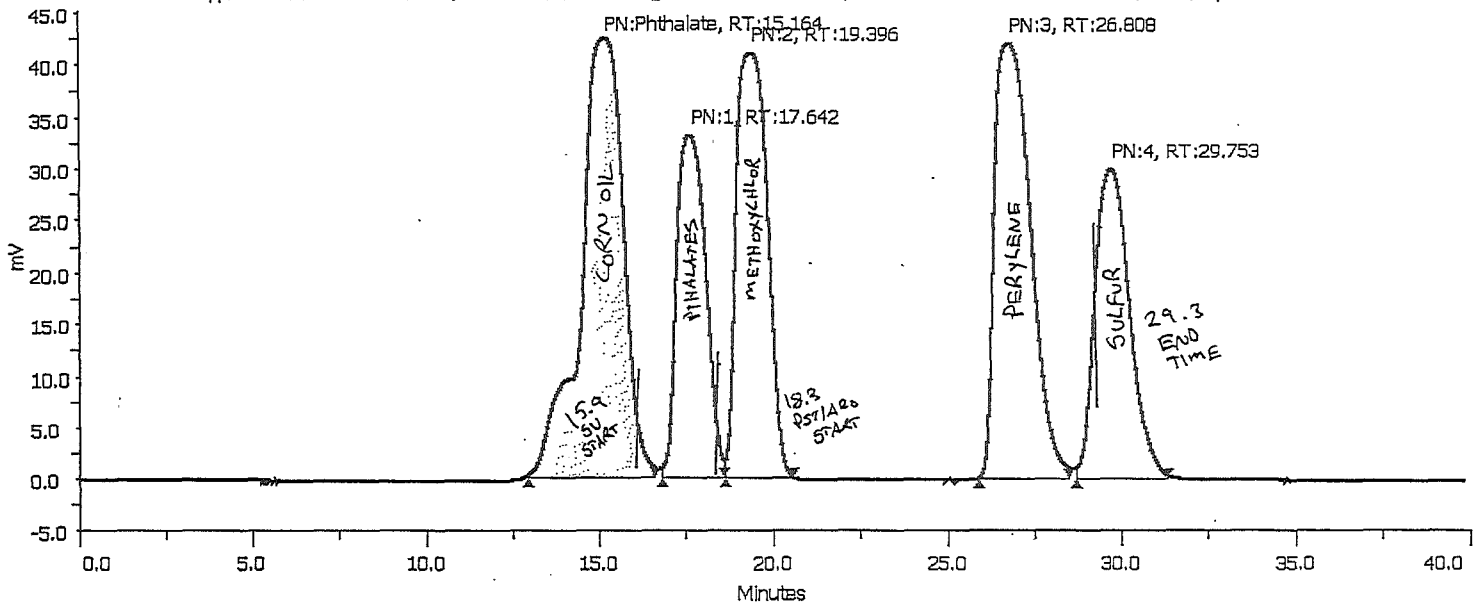
: 84917

Graph

Sample Name	GPC Weekly
Application Name	ALS GPC Methods Small FC (Administrator)
Method Name	UV Calibration Method Small
Configuration Name	GPC System With Detector
Version	4
Data Instrument Name	112 Detector Signal
Data Channel Name	254nm
Notes	
Injection Number	3

GPC 7 TRACE
Somo 1.2/2.2
6/10/15
Lyle Edwards
STD # 195WS38823

App: ALS GPC Methods Small FC, Run: 06102015-150230 @ 6/10/2015 3:02:33 PM, Method: UV Calibration Method Small, Iter: 3, Inj: 3



Sample Table

Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC Weekly	Sample Zone->1	Phthalate	12.939	15.164	6021517.5	42.2	0	90.823
3	GPC Weekly	Sample Zone->1	1	16.814	17.642	3196148.3333	33.05	90.823	93.428
3	GPC Weekly	Sample Zone->1	2	18.631	19.396	4258098.3333	40.89	93.428	335.749
3	GPC Weekly	Sample Zone->1	3	25.947	26.808	5054345	41.89	335.749	115.826
3	GPC Weekly	Sample Zone->1	4	28.727	29.753	3472572.0833	29.89	115.826	0

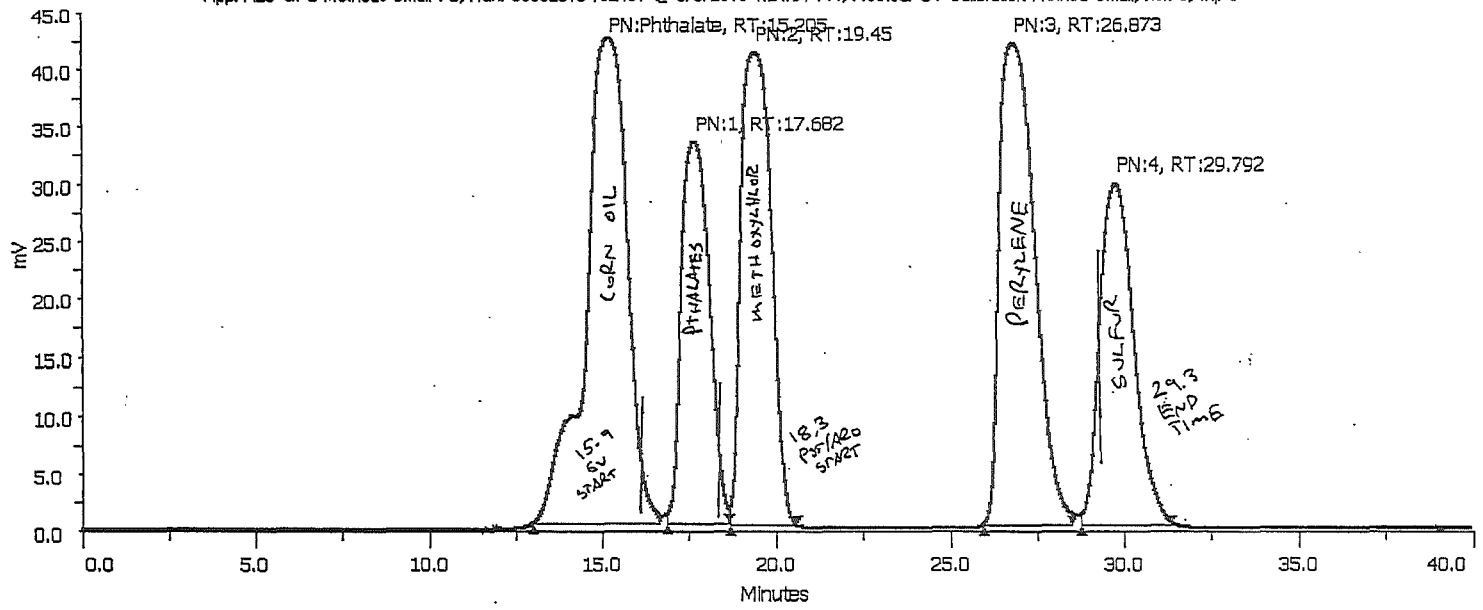
Run Variables

Graph

Sample Name	GPC Weekly
Application Name	ALS GPC Methods Small FC (Administrator)
Method Name	UV Calibration Method Small
Configuration Name	GPC System With Detector
Version	4
Data Instrument Name	112 Detector Signal
Data Channel Name	254nm
Notes	
Injection Number	3

GPC 7 TRACE
Somo 1.2/2.2
6/3/15
STD # 195WS38823

App: ALS GPC Methods Small FC, Run: 06032015-132431 @ 6/3/2015 1:24:34 PM, Method: UV Calibration Method Small, Iter: 3, Inj: 3



Sample Table

Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC Weekly	Sample Zone->1	Phthalate	12.986	15.205	5870776.6667	42.15	0	91.224
3	GPC Weekly	Sample Zone->1	1	16.852	17.682	3105954.5833	32.99	91.224	95.006
3	GPC Weekly	Sample Zone->1	2	18.67	19.45	4146383.75	40.92	95.006	332.264
3	GPC Weekly	Sample Zone->1	3	25.958	26.873	4912102.5	41.75	332.264	113.425
3	GPC Weekly	Sample Zone->1	4	28.773	29.792	3353368.75	29.54	113.425	0

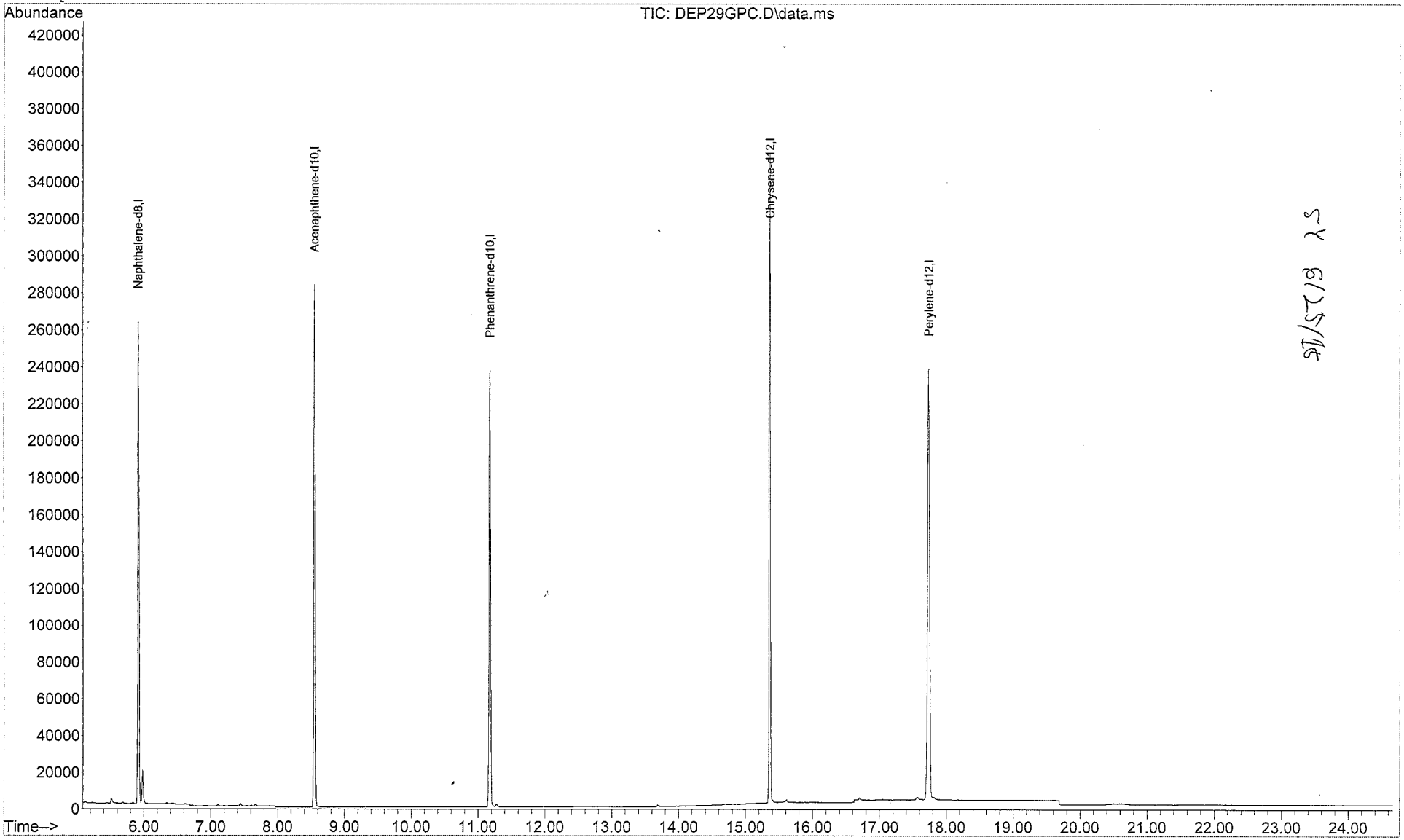
Run Variables

Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP29GPC.D Vial: 26
Acq On : 06/24/2015 05:30 Operator: DJC
Sample : 451917 GBLK17 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 24 05:55:01 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...\23JUN15PM\DEP29GPC.D Vial: 26
Acq On : 06/24/2015 05:30 Operator: DJC
Sample : 451917 GBLK17 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 24 05:55:01 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	5.91	136	290436	0.40 ug/ml
5) Acenaphthene-d10	8.55	164	187941	0.40 ug/ml
9) Phenanthrene-d10	11.18	188	336271	0.40 ug/ml
15) Chrysene-d12	15.36	240	388355	0.40 ug/ml
19) Perylene-d12	17.73	264	396451	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	6.99	152	64	0.000ug/mL
13) Fluoranthene-d10	13.49	212	74	0.000ug/mL
Target Compounds				Qvalue
2) Naphthalene	0.00	128		Not Detected
4) 2-Methylnaphthalene	0.00	142		Not Detected
6) Acenaphthylene	0.00	152		Not Detected
7) Acenaphthene	0.00	153		Not Detected
8) Fluorene	0.00	166		Not Detected
10) Pentachlorophenol	0.00	266		Not Detected
11) Phenanthrene	0.00	178		Not Detected
12) Anthracene	0.00	178		Not Detected
14) Fluoranthene	0.00	202		Not Detected
16) Pyrene	0.00	202		Not Detected
17) Benzo(a)anthracene	0.00	228		Not Detected
18) Chrysene	0.00	228		Not Detected
20) Benzo(b)fluoranthene	0.00	252		Not Detected
21) Benzo(k)fluoranthene	0.00	252		Not Detected
22) Benzo(a)pyrene	0.00	252		Not Detected
23) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected
25) Benzo(g,h,i)perylene	0.00	276		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

2P - FORM II PEST-2
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKS1	47	46	56	60			0
02	PLCSS1	55	54	60	64			0
03	F9K00	41	40	39	42			0
04	F9M82	46	47	46	52			0
05	F9M83	50	49	52	53			0
06	F9M84	60	60	64	63			0
07	F9M85	58	56	53	58			0
08	F9M86	64	62	58	62			0
09	F9M87	61	59	58	60			0
10	F9M88	73	69	69	70			0
11	F9M89	73	70	71	70			0
12	F9M90	75	72	74	76			0
13	F9M91	70	67	72	70			0
14	F9M92	70	69	62	67			0
15	F9M93	75	70	66	69			0
16	F9M94	73	69	69	68			0
17	F9M95	75	73	66	71			0
18	F9M96	77	71	69	68			0
19	F9M97	67	65	65	63			0
20	F9M98	76	71	70	72			0
21	F9M99	87	82	77	79			0
22	F9M91MS	81	76	79	78			0
23	F9M91MSD	80	77	79	81			0
24								
25								
26								
27								
28								
29								
30								

	QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

3H - FORM III PEST-2

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix Spike - EPA Sample No.: F9M91

Instrument ID: GCE21 GC Column: RTXCLP ID: 0.32 (mm)

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
gamma-BHC (Lindane)	18.	0.45	18.	98	46-127
Heptachlor	18.	0	17.	96	35-130
Aldrin	18.	7.4	19.	66	34-132
Dieldrin	36.	0.18	30.	84	31-134
Endrin	36.	0.76	38.	104	42-139
4,4'-DDT	36.	2.1	37.	99	23-134

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
gamma-BHC (Lindane)	18.	18.	99	1	0-50	46-127
Heptachlor	18.	17.	98	2	0-31	35-130
Aldrin	18.	18.	61	7	0-43	34-132
Dieldrin	35.	30.	84	1	0-38	31-134
Endrin	35.	36.	101	2	0-45	42-139
4,4'-DDT	35.	36.	95	4	0-50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits

Spike Recovery: 0 out of 12 outside limits

COMMENTS:

3H - FORM III PEST-2

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix Spike - EPA Sample No.: F9M91

Instrument ID: GCE21 GC Column: RTXCLP2 ID: 0.32 (mm)

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
gamma-BHC (Lindane)	18.	0	17.	96	46-127
Heptachlor	18.	0	17.	94	35-130
Aldrin	18.	2.0	16.	80	34-132
Dieldrin	36.	0.40	35.	98	31-134
Endrin	36.	27.	50.	64	42-139
4,4'-DDT	36.	2.4	35.	92	23-134

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
gamma-BHC (Lindane)	18.	17.	97	1	0-50	46-127
Heptachlor	18.	16.	91	3	0-31	35-130
Aldrin	18.	16.	79	2	0-43	34-132
Dieldrin	35.	36.	100	2	0-38	31-134
Endrin	35.	39.	36 *	56 *	0-45	42-139
4,4'-DDT	35.	35.	93	1	0-50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 6 outside limits

Spike Recovery: 1 out of 12 outside limits

COMMENTS:

3M - FORM III PEST-4

SOIL PESTICIDE LABORATORY CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

PLCSS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 451344 LCS Lot No.:

Date Extracted: 06/12/2015 Date Analyzed (1): 06/23/2015

Instrument ID (1): GCE21 GC Column (1): RTXCLP ID: 0.32 (mm)

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC #	QC LIMITS
gamma-BHC (Lindane)	1.7	0.99	59	50-120
Heptachlor epoxide	1.7	1.3	80	50-150
Dieldrin	3.3	2.3	70	30-130
4,4'-DDE	3.3	2.3	70	50-150
Endrin	3.3	2.6	77	50-120
Endosulfan sulfate	3.3	2.1	64	50-120
gamma-Chlordane	1.7	1.3	76	30-130

Instrument ID (2): GCE21 GC Column (2): RTXCLP2 ID: 0.32 (mm)

Date Analyzed (2): 06/23/2015

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC #	QC LIMITS
gamma-BHC (Lindane)	1.7	1.1	68	50-120
Heptachlor epoxide	1.7	1.2	69	50-150
Dieldrin	3.3	2.6	79	30-130
4,4'-DDE	3.3	2.3	68	50-150
Endrin	3.3	2.3	70	50-120
Endosulfan sulfate	3.3	2.1	63	50-120
gamma-Chlordane	1.7	1.1	69	30-130

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

LCS Recovery: 0 out of 14 outside limits.

COMMENTS:

4E - FORM IV PEST

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab File ID: 21150619A070,21150619B070 Lab Sample ID: 451343

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 06/12/2015

Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) Y

Date Analyzed (1): 06/23/2015 Date Analyzed (2): 06/23/2015

Time Analyzed (1): 14:55 Time Analyzed (2): 15:16

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column(1): RTXCLP ID: 0.32 (mm) GC Column(2): RTXCLP2 ID: 0.32 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	PLCSS1	451344	06/23/2015	06/23/2015
02	F9K00	1515725001	06/23/2015	06/23/2015
03	F9M82	1515725002	06/23/2015	06/23/2015
04	F9M83	1515725003	06/23/2015	06/23/2015
05	F9M84	1515725004	06/23/2015	06/23/2015
06	F9M85	1515725005	06/23/2015	06/23/2015
07	F9M86	1515725006	06/23/2015	06/23/2015
08	F9M87	1515725007	06/23/2015	06/23/2015
09	F9M88	1515725008	06/23/2015	06/23/2015
10	F9M89	1515725009	06/23/2015	06/23/2015
11	F9M90	1515725010	06/23/2015	06/23/2015
12	F9M91	1515725011	06/23/2015	06/23/2015
13	F9M92	1515725014	06/23/2015	06/23/2015
14	F9M93	1515725015	06/23/2015	06/23/2015
15	F9M94	1515725016	06/23/2015	06/23/2015
16	F9M95	1515725017	06/23/2015	06/23/2015
17	F9M96	1515725018	06/23/2015	06/23/2015
18	F9M97	1515725019	06/23/2015	06/23/2015
19	F9M98	1515725020	06/23/2015	06/23/2015
20	F9M99	1515725021	06/23/2015	06/23/2015
21	F9M91MS	1515725012	06/23/2015	06/23/2015
22	F9M91MSD	1515725013	06/23/2015	06/23/2015
23				
24				
25				
26				

COMMENTS:

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9K00

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725001

Sample wt/vol: 30.4 (g/mL) g Lab File ID: 21150619A072,21150619B072

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/23/2015

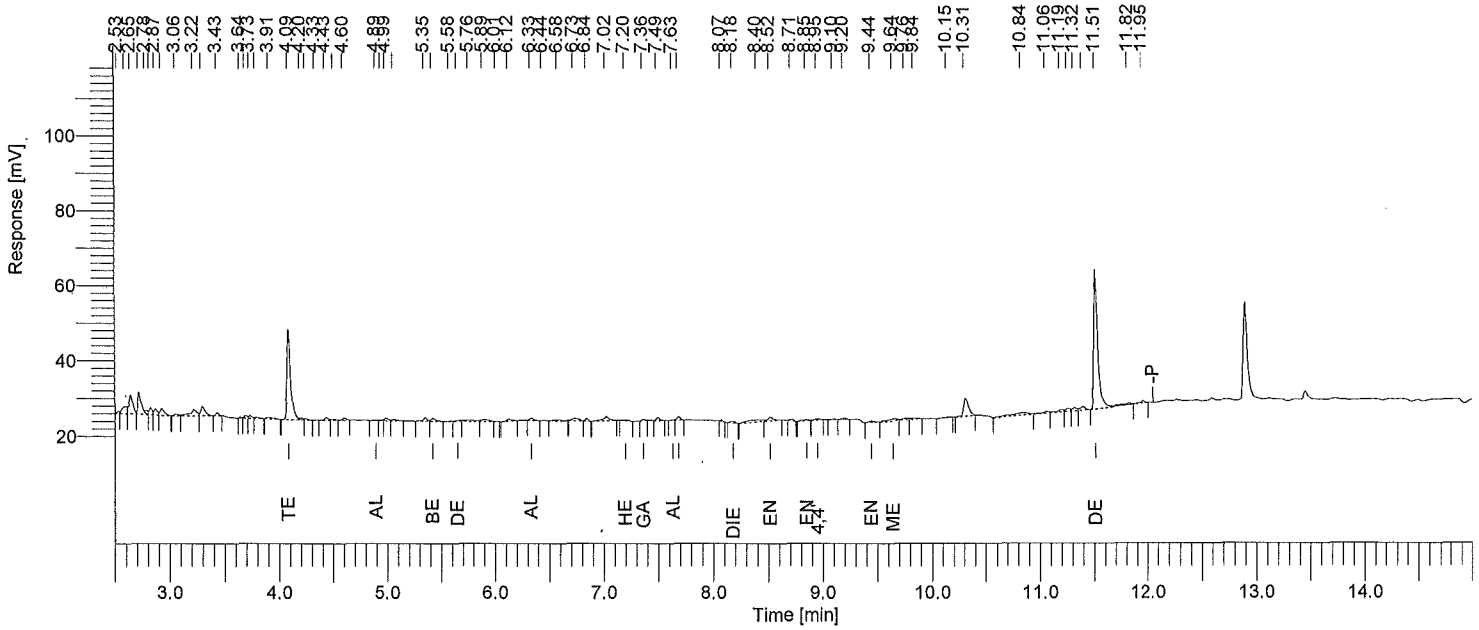
Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	0.25	JP
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	0.24	JP
72-55-9	4,4'-DDE	0.33	JP
72-20-8	Endrin	0.70	JP
33213-65-9	Endosulfan II	3.7	U
72-54-8	4,4'-DDD	3.7	U
1031-07-8	Endosulfan sulfate	3.7	U
50-29-3	4,4'-DDT	0.19	JP
72-43-5	Methoxychlor	1.3	JP
53494-70-5	Endrin ketone	3.7	U
7421-93-4	Endrin aldehyde	0.31	JP
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190	U

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:36:45
Reprocess Number	: nasltw7087: 2219985		
Operator	: sagers		
Sample Number	: 072	Sample Name	: 1515725001
AutoSampler	: HP7673A	Study	: F9KK00
Instrument Name	: GCE21	Rack/Vial	: 0/72
Instrument Serial #	: None	Channel	: A
Delay Time	: 0.00 min	A/D mV Range	: 1000
Sampling Rate	: 5.0000 pts/s	End Time	: 16.90 min
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 15:37:28	Dilution Factor	: 1.00
		Cycle	: 3

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_072.raw <Modified>
Result File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_072.rst
Inst Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som_acq_pest from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_072.raw
Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_072.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_072.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_soil_sample_a.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619_SOM012_PEST_F9M36_F9M15_A.seq



Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.09	Tetrachloro-m-xylene	56803	0.02448250	1	10	0.03035	0.988	1.6474	8.06672	19.77	40.8
4.89	alpha-BHC	573	1.8967e-04	1	10	0.03035	0.988	1.6474	0.06249	0.00	------
5.29	gamma-BHC	0	0.00000000	1	10	0.03035	0.988	----------	0.00000	--------	------
5.42	beta-BHC	2574	1.7455e-03	1	10	0.03035	0.988	1.6474	0.57511	0.00	------
5.65	delta-BHC	1201	4.4216e-04	1	10	0.03035	0.988	1.6474	0.14569	0.00	------
5.95	Heptachlor	0	0.00000000	1	10	0.03035	0.988	----------	0.00000	--------	------
6.33	Aldrin	1749	6.7145e-04	1	10	0.03035	0.988	1.6474	0.22123	0.00	------
7.20	Heptachlor epoxide	945	3.8086e-04	1	10	0.03035	0.988	1.6474	0.12549	0.00	------
7.36	gamma-Chlordane	745	2.9258e-04	1	10	0.03035	0.988	1.6474	0.09640	0.00	------
7.63	alpha-Chlordane	431	1.6569e-04	1	10	0.03035	0.988	1.6474	0.05459	0.00	------
7.68	4,4'-DDE	1890	8.7774e-04	1	10	0.03035	0.988	3.2949	0.28921	0.00	------
7.80	Endosulfan I	0	0.00000000	1	10	0.03035	0.988	----------	0.00000	--------	------
8.18	Dieldrin	1450	6.2558e-04	1	10	0.03035	0.988	3.2949	0.20612	0.00	------
8.52	Endrin	3801	1.8607e-03	1	10	0.03035	0.988	3.2949	0.61310	0.00	------
8.58	4,4'-DDD	0	0.00000000	1	10	0.03035	0.988	----------	0.00000	--------	------
8.85	Endosulfan II	1269	6.2937e-04	1	10	0.03035	0.988	3.2949	0.20737	0.00	------
8.95	4,4'-DDT	1056	5.1651e-04	1	10	0.03035	0.988	3.2949	0.17018	0.00	------
9.44	Endrin aldehyde	1419	8.2981e-04	1	10	0.03035	0.988	3.2949	0.27341	0.00	------
9.64	Methoxychlor	3512	3.4379e-03	1	10	0.03035	0.988	16.4745	1.13276	0.00	------
10.05	Endosulfan sulfate	0	0.00000000	1	10	0.03035	0.988	----------	0.00000	--------	------
10.42	Endrin ketone	0	0.00000000	1	10	0.03035	0.988	----------	0.00000	--------	------
11.51	Decachlorobiphenyl	93341	0.04700285	1	10	0.03035	0.988	3.2949	15.48694	39.54	39.2

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:37:00
Reprocess Number	: nasltw7087; 2219988		
Operator	: sagers		
Sample Number	: 072	Sample Name	: 1515725001
AutoSampler	: HP7673A	Study	: F9KK00
Instrument Name	: GCE21	Rack/Vial	: 0/72
Instrument Serial #	: None	Channel	: B
Delay Time	: 0.00 min	A/D mV Range	: 1000
Sampling Rate	: 5.0000 pts/s	End Time	: 16.90 min
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 15:58:26	Dilution Factor	: 1.00
		Cycle	: 3

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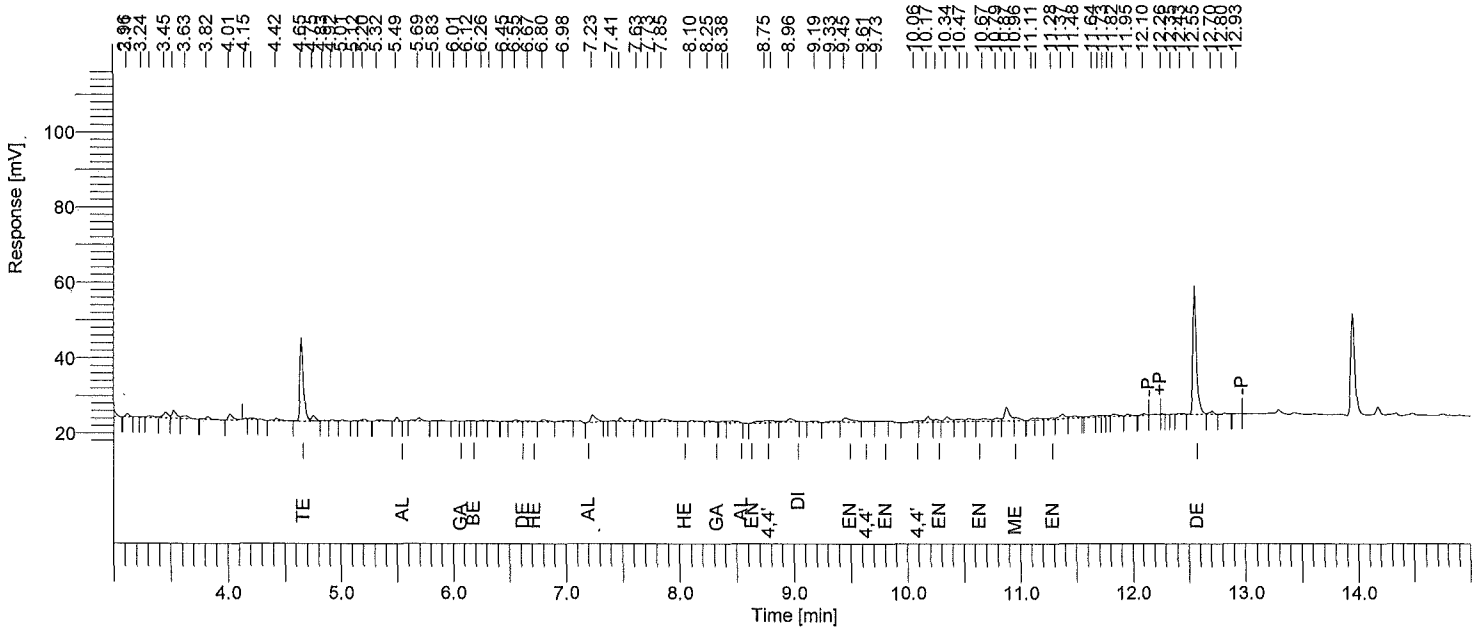

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.65	Tetrachloro-m-xylene	47564	0.02389267	1	10	0.03035	0.988	1.6474	7.87238	19.77	39.8
5.54	alpha-BHC	0	0.00000000	1	10	0.03035	0.988	---------	0.00000	--------	------
6.06	gamma-BHC	0	0.00000000	1	10	0.03035	0.988	---------	0.00000	--------	------
6.18	beta-BHC	0	0.00000000	1	10	0.03035	0.988	---------	0.00000	--------	------
6.61	delta-BHC	0	0.00000000	1	10	0.03035	0.988	---------	0.00000	--------	------
6.67	Heptachlor	1299	5.5964e-04	1	10	0.03035	0.988	1.6474	0.18439	0.00	------
7.23	Aldrin	6260	3.0587e-03	1	10	0.03035	0.988	1.6474	1.00780	0.00	------
8.04	Heptachlor epoxide	0	0.00000000	1	10	0.03035	0.988	---------	0.00000	--------	------
8.32	gamma-Chlordane	0	0.00000000	1	10	0.03035	0.988	---------	0.00000	--------	------
8.54	alpha-Chlordane	0	0.00000000	1	10	0.03035	0.988	---------	0.00000	--------	------
8.63	Endosulfan I	0	0.00000000	1	10	0.03035	0.988	---------	0.00000	--------	------
8.75	4,4'-DDE	4350	2.3971e-03	1	10	0.03035	0.988	3.2949	0.78981	0.00	------
8.96	Dieldrin	4124	2.1839e-03	1	10	0.03035	0.988	3.2949	0.71958	0.00	------
9.45	Endrin	6424	3.9167e-03	1	10	0.03035	0.988	3.2949	1.29052	0.00	------
9.61	4,4'-DDD	1129	7.6345e-04	1	10	0.03035	0.988	3.2949	0.25155	0.00	------
9.80	Endosulfan II	0	0.00000000	1	10	0.03035	0.988	---------	0.00000	--------	------
10.06	4,4'-DDT	2223	1.3961e-03	1	10	0.03035	0.988	3.2949	0.45999	0.00	------
10.25	Endrin aldehyde	2581	2.0174e-03	1	10	0.03035	0.988	3.2949	0.66470	0.00	------
10.67	Endosulfan sulfate	5082	3.5137e-03	1	10	0.03035	0.988	3.2949	1.15772	0.00	------
10.96	Methoxychlor	3314	4.3010e-03	1	10	0.03035	0.988	16.4745	1.41715	0.00	------
11.28	Endrin ketone	2247	1.2475e-03	1	10	0.03035	0.988	3.2949	0.41105	0.00	------
12.55	Decachlorobiphenyl	77653	0.04986220	1	10	0.03035	0.988	3.2949	16.42906	39.54	41.6

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M82

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725002

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 21150619A073,21150619B073

% Moisture: 20. Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/23/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.12	JP
319-85-7	beta-BHC	0.10	JP
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	0.50	JP
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	0.32	JP
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	1.3	J
33213-65-9	Endosulfan II	0.089	JP
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	0.48	J
72-43-5	Methoxychlor	0.65	JP
53494-70-5	Endrin ketone	0.080	J
7421-93-4	Endrin aldehyde	0.45	JP
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:36:55
Reprocess Number	: nasltw7087: 2219987		
Operator	: sagers		
Sample Number	: 073	Sample Name	: 1515725002
AutoSampler	: HP7673A	Study	: F9M82
Instrument Name	: GCE21	Rack/Vial	: 0/73
Instrument Serial #	: None	Channel	: A
Delay Time	: 0.00 min	A/D mV Range	: 1000
Sampling Rate	: 5.0000 pts/s	End Time	: 16.90 min
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 15:58:26	Dilution Factor	: 1.00
		Cycle	: 4

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Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_073.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_soil_sample_a.rpt
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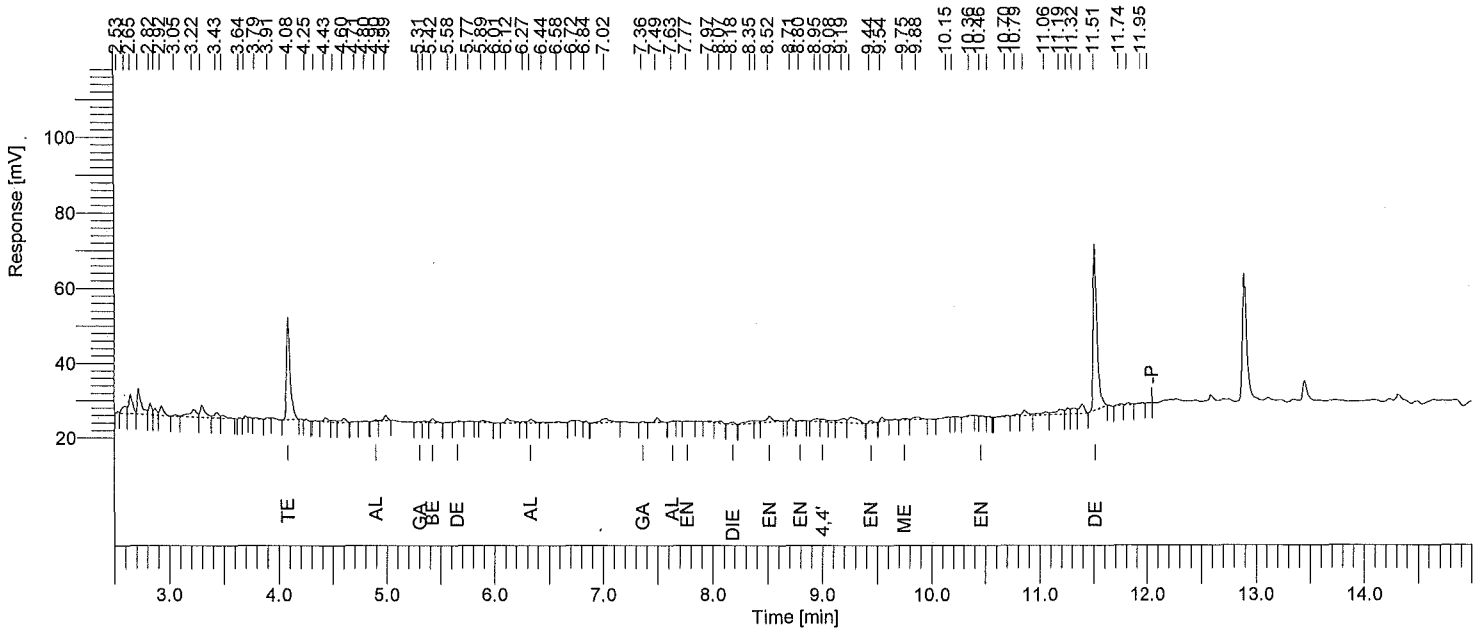

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.08	Tetrachloro-m-xylene	63660	0.02743781	1	10	0.03023	0.992	1.6540	9.07635	19.85	45.7
4.90	alpha-BHC	846	2.8005e-04	1	10	0.03023	0.992	1.6540	0.09264	0.00	------
5.31	gamma-BHC	804	2.8781e-04	1	10	0.03023	0.992	1.6540	0.09521	0.00	------
5.42	beta-BHC	3274	2.2201e-03	1	10	0.03023	0.992	1.6540	0.73441	0.00	------
5.65	delta-BHC	1132	4.1668e-04	1	10	0.03023	0.992	1.6540	0.13784	0.00	------
5.95	Heptachlor	0	0.00000000	1	10	0.03023	0.992	----------	0.00000	--------	------
6.33	Aldrin	3177	1.2200e-03	1	10	0.03023	0.992	1.6540	0.40358	0.00	------
7.24	Heptachlor epoxide	0	0.00000000	1	10	0.03023	0.992	----------	0.00000	--------	------
7.36	gamma-Chlordane	735	2.8876e-04	1	10	0.03023	0.992	1.6540	0.09552	0.00	------
7.63	alpha-Chlordane	506	1.9485e-04	1	10	0.03023	0.992	1.6540	0.06446	0.00	------
7.72	4,4'-DDE	0	0.00000000	1	10	0.03023	0.992	----------	0.00000	--------	------
7.77	Endosulfan I	341	1.3338e-04	1	10	0.03023	0.992	1.6540	0.04412	0.00	------
8.18	Dieldrin	1777	7.6634e-04	1	10	0.03023	0.992	3.3080	0.25350	0.00	------
8.52	Endrin	6581	3.2217e-03	1	10	0.03023	0.992	3.3080	1.06572	0.00	------
8.58	4,4'-DDD	0	0.00000000	1	10	0.03023	0.992	----------	0.00000	--------	------
8.80	Endosulfan II	434	2.1513e-04	1	10	0.03023	0.992	3.3080	0.07116	0.00	------
9.00	4,4'-DDT	2393	1.1704e-03	1	10	0.03023	0.992	3.3080	0.38717	0.00	------
9.44	Endrin aldehyde	1888	1.1038e-03	1	10	0.03023	0.992	3.3080	0.36514	0.00	------
9.75	Methoxychlor	1623	1.5884e-03	1	10	0.03023	0.992	16.5399	0.52543	0.00	------
10.05	Endosulfan sulfate	0	0.00000000	1	10	0.03023	0.992	----------	0.00000	--------	------
10.46	Endrin ketone	482	2.0487e-04	1	10	0.03023	0.992	3.3080	0.06777	0.00	------
11.51	Decachlorobiphenyl	109026	0.05490114	1	10	0.03023	0.992	3.3080	18.16115	39.70	45.8

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:02:18
Operator	: sagers	Sample Name	: 1515725002
Sample Number	: 073	Study	: F9M82
AutoSampler	: HP7673A	Rack/Vial	: 0/73
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 16:19:24	Dilution Factor	: 1.00
		Cycle	: 5

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_073.raw
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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_073.rst
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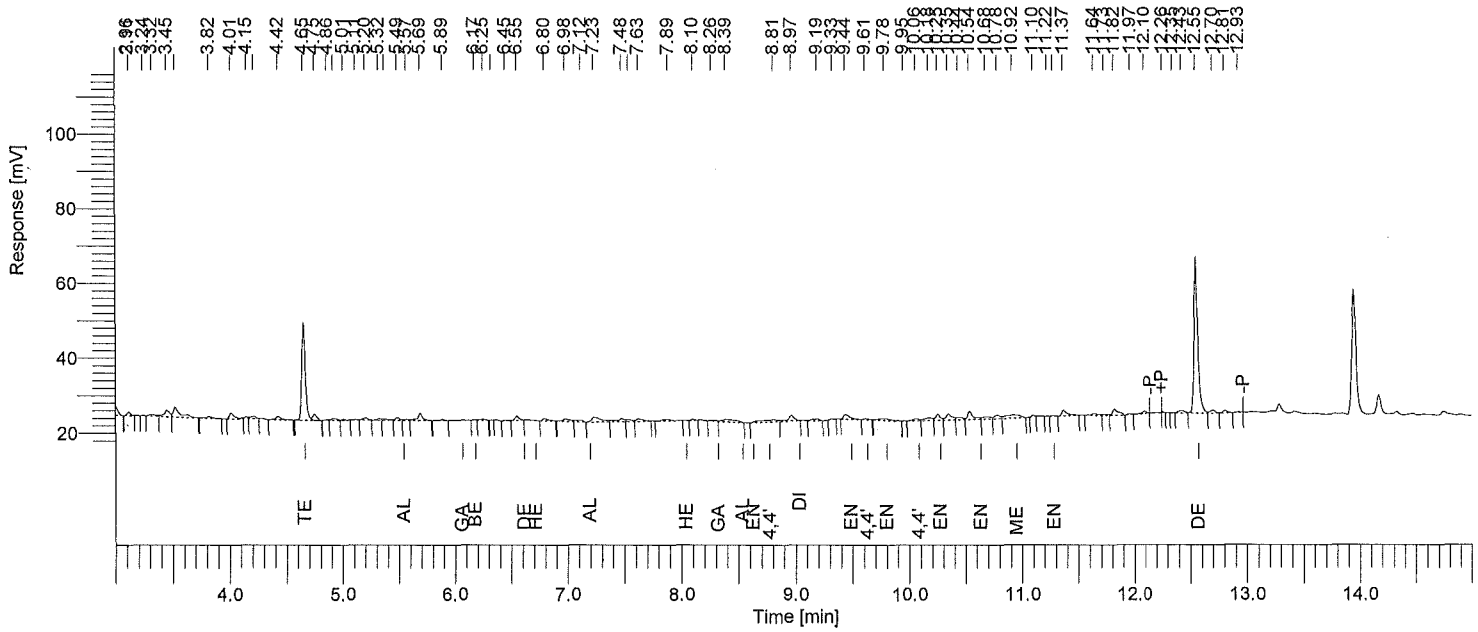

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.65	Tetrachloro-m-xylene	56085	0.02817287	1	10	0.03023	0.992	1.6540	9.31951	19.85	47.0
5.57	alpha-BHC	952	3.8122e-04	1	10	0.03023	0.992	1.6540	0.12611	0.00	------
6.06	gamma-BHC	0	0.00000000	1	10	0.03023	0.992	---------	0.00000	--------	------
6.17	beta-BHC	295	2.4231e-04	1	10	0.03023	0.992	1.6540	0.08016	0.00	------
6.61	delta-BHC	0	0.00000000	1	10	0.03023	0.992	---------	0.00000	--------	------
6.72	Heptachlor	0	0.00000000	1	10	0.03023	0.992	---------	0.00000	--------	------
7.23	Aldrin	7602	3.7146e-03	1	10	0.03023	0.992	1.6540	1.22878	0.00	------
8.04	Heptachlor epoxide	0	0.00000000	1	10	0.03023	0.992	---------	0.00000	--------	------
8.32	gamma-Chlordane	0	0.00000000	1	10	0.03023	0.992	---------	0.00000	--------	------
8.54	alpha-Chlordane	0	0.00000000	1	10	0.03023	0.992	---------	0.00000	--------	------
8.63	Endosulfan I	0	0.00000000	1	10	0.03023	0.992	---------	0.00000	--------	------
8.81	4,4'-DDE	6693	3.6886e-03	1	10	0.03023	0.992	3.3080	1.22019	0.00	------
8.97	Dieldrin	5557	2.9427e-03	1	10	0.03023	0.992	3.3080	0.97343	0.00	------
9.44	Endrin	5065	3.0883e-03	1	10	0.03023	0.992	3.3080	1.02162	0.00	------
9.61	4,4'-DDD	713	4.8202e-04	1	10	0.03023	0.992	3.3080	0.15945	0.00	------
9.78	Endosulfan II	3701	2.3028e-03	1	10	0.03023	0.992	3.3080	0.76177	0.00	------
10.06	4,4'-DDT	2143	1.3453e-03	1	10	0.03023	0.992	3.3080	0.44503	0.00	------
10.25	Endrin aldehyde	4498	3.5155e-03	1	10	0.03023	0.992	3.3080	1.16292	0.00	------
10.68	Endosulfan sulfate	2979	2.0598e-03	1	10	0.03023	0.992	3.3080	0.68137	0.00	------
10.92	Methoxychlor	7662	9.9431e-03	1	10	0.03023	0.992	16.5399	3.28915	0.00	------
11.28	Endrin ketone	350	1.9449e-04	1	10	0.03023	0.992	3.3080	0.06434	0.00	------
12.55	Decachlorobiphenyl	96496	0.06196121	1	10	0.03023	0.992	3.3080	20.49660	39.70	51.6

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M83

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725003

Sample wt/vol: 30.5 (g/mL) g Lab File ID: 21150619A074,21150619B074

% Moisture: 20. Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/23/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.082	JP
319-85-7	beta-BHC	0.36	JP
319-86-8	delta-BHC	0.27	JBP
58-89-9	gamma-BHC (Lindane)	0.099	JP
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	0.30	JP
72-55-9	4,4'-DDE	0.028	JP
72-20-8	Endrin	0.84	JP
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	0.72	J
72-43-5	Methoxychlor	0.49	JP
53494-70-5	Endrin ketone	0.25	JP
7421-93-4	Endrin aldehyde	0.60	JP
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:01:23
Operator	: sagers	Sample Name	: 1515725003
Sample Number	: 074	Study	: F9M83
AutoSampler	: HP7673A	Rack/Vial	: 0/74
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/23/2015 16:19:24	Cycle	: 5

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_074.raw
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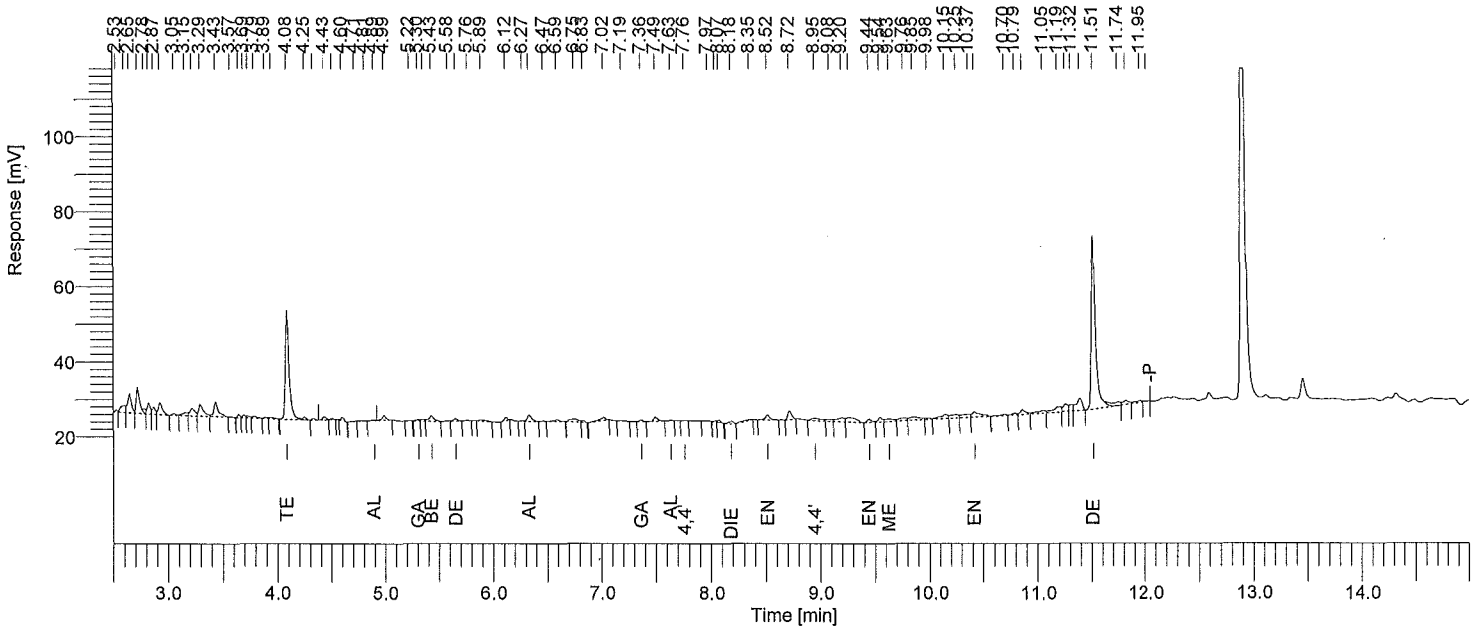
Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_074.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_074.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_soil_sample_a.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619_SOM012_PEST_F9M36_F9M15_A.seq



Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.08	Tetrachloro-m-xylene	69522	0.02996410	1	10	0.03049	0.984	1.6399	9.82752	19.68	49.9
4.89	alpha-BHC	600	1.9875e-04	1	10	0.03049	0.984	1.6399	0.06519	0.00	------
5.30	gamma-BHC	952	3.4072e-04	1	10	0.03049	0.984	1.6399	0.11175	0.00	------
5.43	beta-BHC	5113	3.4667e-03	1	10	0.03049	0.984	1.6399	1.13698	0.00	------
5.65	delta-BHC	1761	6.4836e-04	1	10	0.03049	0.984	1.6399	0.21265	0.00	------
5.95	Heptachlor	0	0.00000000	1	10	0.03049	0.984	----------	0.00000	--------	------
6.33	Aldrin	4762	1.8282e-03	1	10	0.03049	0.984	1.6399	0.59962	0.00	------
7.24	Heptachlor epoxide	0	0.00000000	1	10	0.03049	0.984	----------	0.00000	--------	------
7.36	gamma-Chlordane	928	3.6453e-04	1	10	0.03049	0.984	1.6399	0.11956	0.00	------
7.63	alpha-Chlordane	360	1.3858e-04	1	10	0.03049	0.984	1.6399	0.04545	0.00	------
7.76	4,4'-DDE	147	6.8413e-05	1	10	0.03049	0.984	3.2798	0.02244	0.00	------
7.80	Endosulfan I	0	0.00000000	1	10	0.03049	0.984	----------	0.00000	--------	------
8.18	Dieldrin	1711	7.3786e-04	1	10	0.03049	0.984	3.2798	0.24200	0.00	------
8.52	Endrin	4154	2.0335e-03	1	10	0.03049	0.984	3.2798	0.66695	0.00	------
8.58	4,4'-DDD	0	0.00000000	1	10	0.03049	0.984	----------	0.00000	--------	------
8.81	Endosulfan II	0	0.00000000	1	10	0.03049	0.984	----------	0.00000	--------	------
8.95	4,4'-DDT	4146	2.0282e-03	1	10	0.03049	0.984	3.2798	0.66519	0.00	------
9.44	Endrin aldehyde	2486	1.4535e-03	1	10	0.03049	0.984	3.2798	0.47672	0.00	------
9.63	Methoxychlor	4188	4.0996e-03	1	10	0.03049	0.984	16.3988	1.34456	0.00	------
10.05	Endosulfan sulfate	0	0.00000000	1	10	0.03049	0.984	----------	0.00000	--------	------
10.42	Endrin ketone	7592	3.2281e-03	1	10	0.03049	0.984	3.2798	1.05875	0.00	------
11.51	Decachlorobiphenyl	123300	0.06208939	1	10	0.03049	0.984	3.2798	20.36385	39.36	51.7

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:02:20
Operator	: sagers	Sample Name	: 1515725003
Sample Number	: 074	Study	: F9M83
AutoSampler	: HP7673A	Rack/Vial	: 0/74
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 16:40:20	Dilution Factor	: 1.00
		Cycle	: 6

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_074.raw
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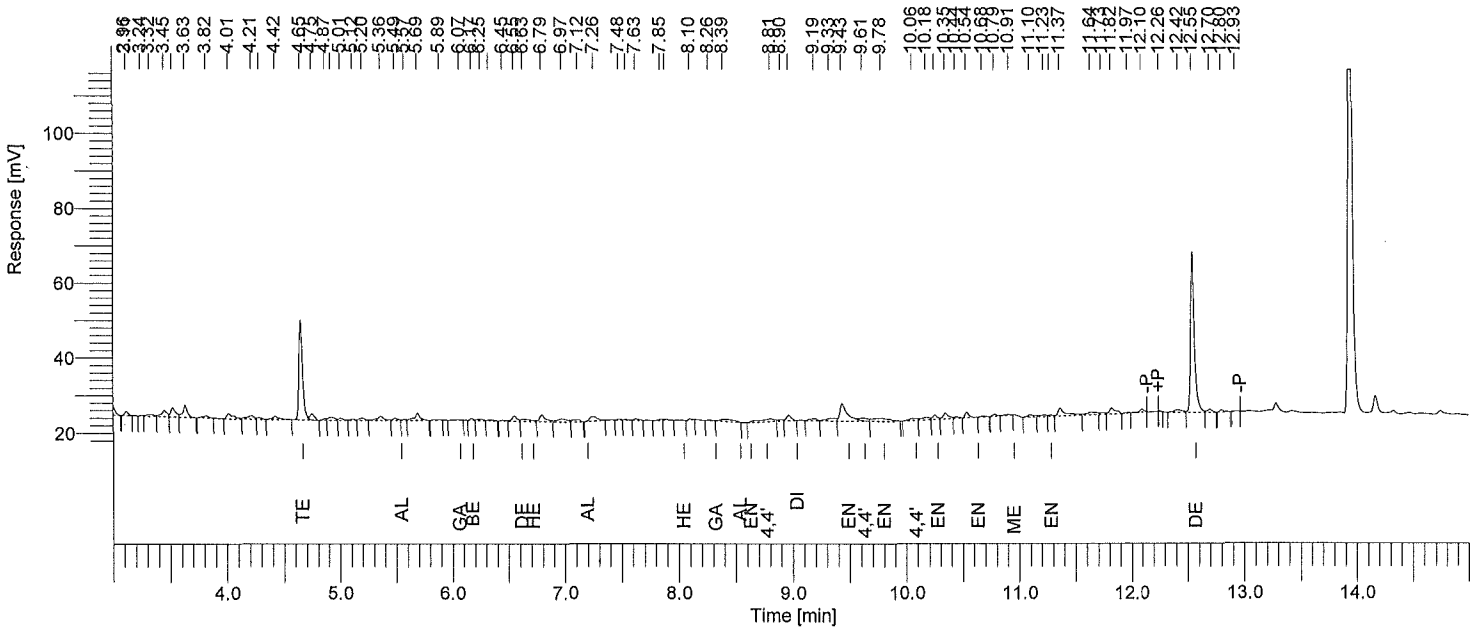
Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_074.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_074.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_soil_sample_b.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619_SOM012_PEST_F9M36_F9M15_A.seq



Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.65	Tetrachloro-m-xylene	58255	0.02926264	1	10	0.03049	0.984	1.6399	9.59746	19.68	48.8
5.57	alpha-BHC	720	2.8808e-04	1	10	0.03049	0.984	1.6399	0.09448	0.00	------
6.07	gamma-BHC	550	2.4095e-04	1	10	0.03049	0.984	1.6399	0.07903	0.00	------
6.17	beta-BHC	1060	8.7030e-04	1	10	0.03049	0.984	1.6399	0.28544	0.00	------
6.63	delta-BHC	3495	1.6019e-03	1	10	0.03049	0.984	1.6399	0.52537	0.00	------
6.72	Heptachlor	0	0.00000000	1	10	0.03049	0.984	---------	0.00000	--------	------
7.20	Aldrin	0	0.00000000	1	10	0.03049	0.984	---------	0.00000	--------	------
8.04	Heptachlor epoxide	0	0.00000000	1	10	0.03049	0.984	---------	0.00000	--------	------
8.32	gamma-Chlordane	0	0.00000000	1	10	0.03049	0.984	---------	0.00000	--------	------
8.54	alpha-Chlordane	0	0.00000000	1	10	0.03049	0.984	---------	0.00000	--------	------
8.63	Endosulfan I	0	0.00000000	1	10	0.03049	0.984	---------	0.00000	--------	------
8.81	4,4'-DDE	7051	3.8861e-03	1	10	0.03049	0.984	3.2798	1.27455	0.00	------
8.97	Dieldrin	4296	2.2752e-03	1	10	0.03049	0.984	3.2798	0.74621	0.00	------
9.43	Endrin	21144	0.01289149	1	10	0.03049	0.984	3.2798	4.22810	0.00	------
9.61	4,4'-DDD	3833	2.5919e-03	1	10	0.03049	0.984	3.2798	0.85009	0.00	------
9.78	Endosulfan II	8522	5.3028e-03	1	10	0.03049	0.984	3.2798	1.73921	0.00	------
10.06	4,4'-DDT	2797	1.7561e-03	1	10	0.03049	0.984	3.2798	0.57595	0.00	------
10.25	Endrin aldehyde	3282	2.5649e-03	1	10	0.03049	0.984	3.2798	0.84124	0.00	------
10.68	Endosulfan sulfate	870	6.0122e-04	1	10	0.03049	0.984	3.2798	0.19719	0.00	------
10.91	Methoxychlor	910	1.1809e-03	1	10	0.03049	0.984	16.3988	0.38732	0.00	------
11.28	Endrin ketone	1102	6.1166e-04	1	10	0.03049	0.984	3.2798	0.20061	0.00	------
12.55	Decachlorobiphenyl	99859	0.06412062	1	10	0.03049	0.984	3.2798	21.03005	39.36	53.4

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M84

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725004

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 21150619A075,21150619B075

% Moisture: 21. Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/23/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.084	JP
319-85-7	beta-BHC	2.0	JP
319-86-8	delta-BHC	0.051	JBP
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	0.070	J
72-55-9	4,4'-DDE	0.15	JP
72-20-8	Endrin	2.8	JP
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	0.78	JP
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	1.2	JP
72-43-5	Methoxychlor	21.	U
53494-70-5	Endrin ketone	0.94	JP
7421-93-4	Endrin aldehyde	0.57	JP
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:01:25
Operator	: sagers	Sample Name	: 1515725004
Sample Number	: 075	Study	: F9M84
AutoSampler	: HP7673A	Rack/Vial	: 0/75
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 16:40:20	Dilution Factor	: 1.00
		Cycle	: 6

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_075.raw
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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_075.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_075.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_soil_sample_a.rpt
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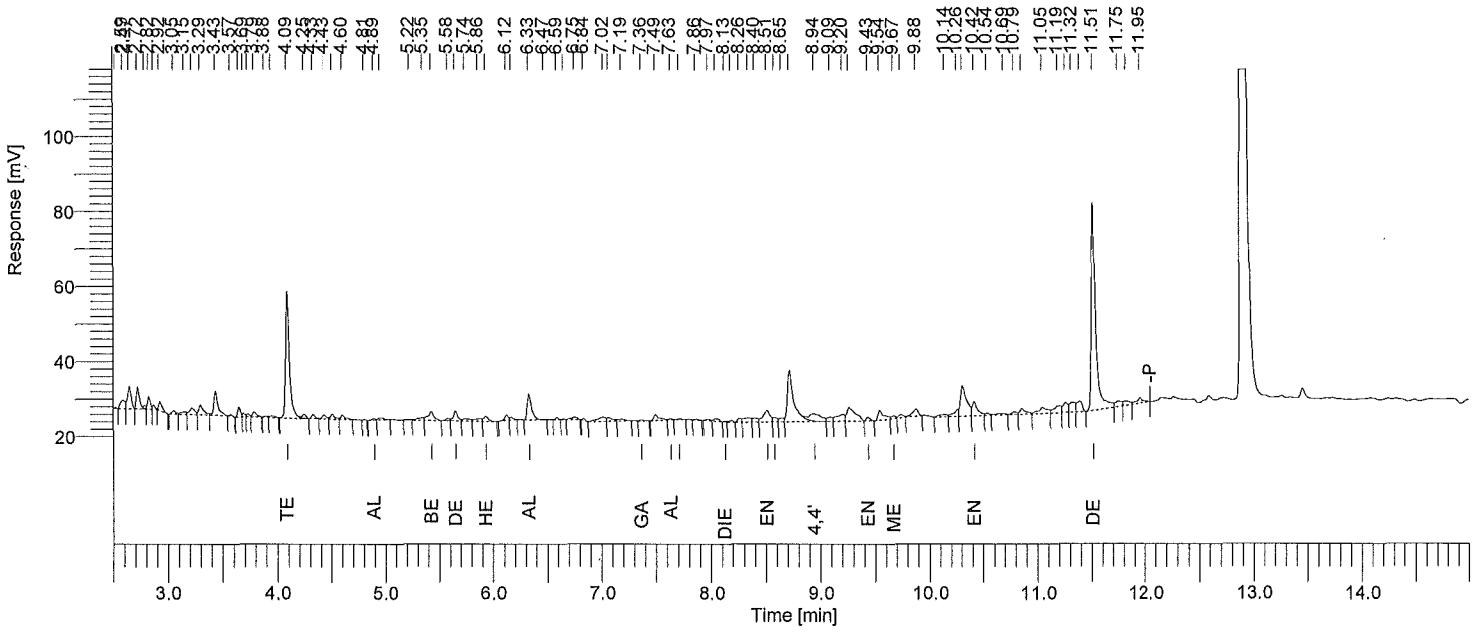

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.09	Tetrachloro-m-xylene	83535	0.03600408	1	10	0.03025	0.992	1.6529	11.90217	19.83	60.0
4.89	alpha-BHC	1008	3.3367e-04	1	10	0.03025	0.992	1.6529	0.11030	0.00	------
5.29	gamma-BHC	0	0.00000000	1	10	0.03025	0.992	----------	0.00000	--------	------
5.43	beta-BHC	8912	6.0422e-03	1	10	0.03025	0.992	1.6529	1.99743	0.00	------
5.65	delta-BHC	7055	2.5978e-03	1	10	0.03025	0.992	1.6529	0.85877	0.00	------
5.93	Heptachlor	3567	1.2058e-03	1	10	0.03025	0.992	1.6529	0.39861	0.00	------
6.33	Aldrin	19365	7.4354e-03	1	10	0.03025	0.992	1.6529	2.45800	0.00	------
7.24	Heptachlor epoxide	0	0.00000000	1	10	0.03025	0.992	----------	0.00000	--------	------
7.36	gamma-Chlordane	613	2.4081e-04	1	10	0.03025	0.992	1.6529	0.07961	0.00	------
7.63	alpha-Chlordane	883	3.3955e-04	1	10	0.03025	0.992	1.6529	0.11225	0.00	------
7.71	4,4'-DDE	776	3.6050e-04	1	10	0.03025	0.992	3.3058	0.11917	0.00	------
7.80	Endosulfan I	0	0.00000000	1	10	0.03025	0.992	----------	0.00000	--------	------
8.13	Dieldrin	386	1.6657e-04	1	10	0.03025	0.992	3.3058	0.05506	0.00	------
8.51	Endrin	13856	6.7831e-03	1	10	0.03025	0.992	3.3058	2.24234	0.00	------
8.58	4,4'-DDD	3465	1.8673e-03	1	10	0.03025	0.992	3.3058	0.61728	0.00	------
8.81	Endosulfan II	0	0.00000000	1	10	0.03025	0.992	----------	0.00000	--------	------
8.94	4,4'-DDT	15397	7.5318e-03	1	10	0.03025	0.992	3.3058	2.48986	0.00	------
9.43	Endrin aldehyde	2339	1.3678e-03	1	10	0.03025	0.992	3.3058	0.45216	0.00	------
9.67	Methoxychlor	2235	2.1878e-03	1	10	0.03025	0.992	16.5289	0.72325	0.00	------
10.05	Endosulfan sulfate	0	0.00000000	1	10	0.03025	0.992	----------	0.00000	--------	------
10.42	Endrin ketone	12810	5.4467e-03	1	10	0.03025	0.992	3.3058	1.80057	0.00	------
11.51	Decachlorobiphenyl	153519	0.07730642	1	10	0.03025	0.992	3.3058	25.55584	39.67	64.4

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:02:22
Operator	: sagers	Sample Name	: 1515725004
Sample Number	: 075	Study	: F9M84
AutoSampler	: HP7673A	Rack/Vial	: 0/75
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 17:01:16	Dilution Factor	: 1.00
		Cycle	: 7

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_075.raw
Result File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_075.rst
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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_075.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_075.rst
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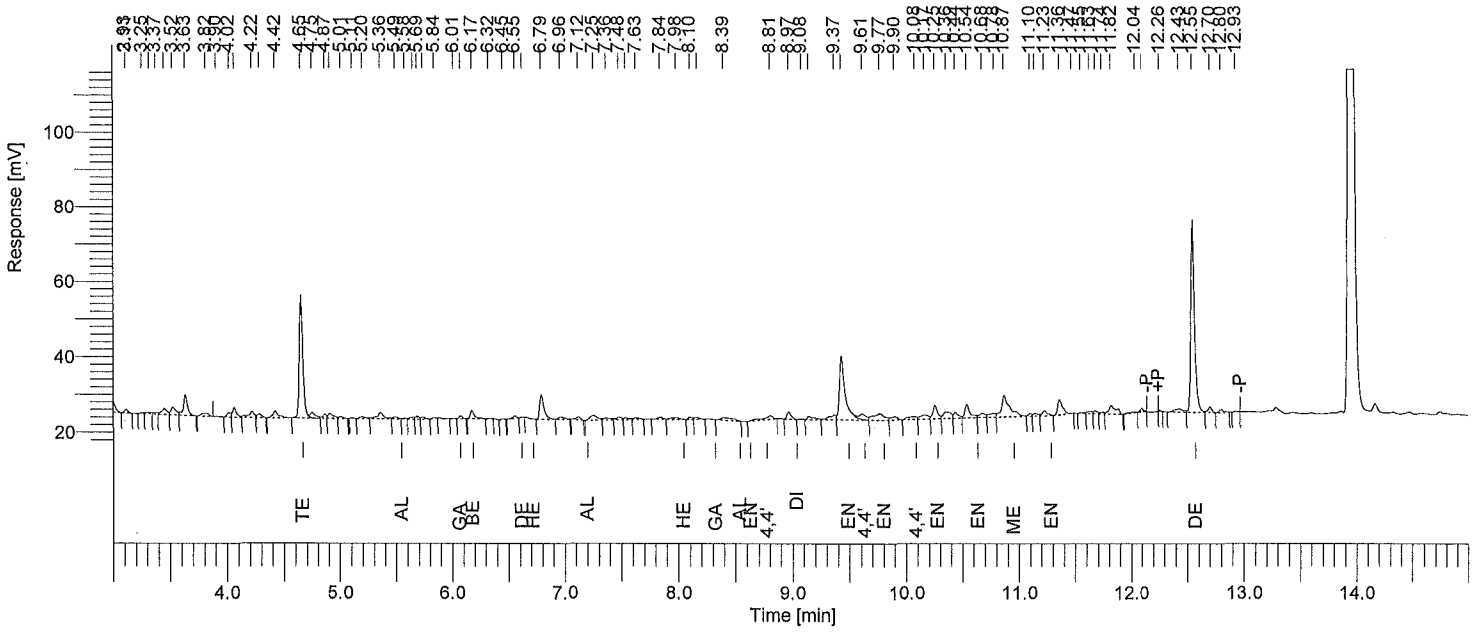

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.65	Tetrachloro-m-xylene	71132	0.03573105	1	10	0.03025	0.992	1.6529	11.81192	19.83	59.6
5.58	alpha-BHC	500	2.0019e-04	1	10	0.03025	0.992	1.6529	0.06618	0.00	------
6.07	gamma-BHC	1441	6.3083e-04	1	10	0.03025	0.992	1.6529	0.20854	0.00	------
6.17	beta-BHC	5730	4.7060e-03	1	10	0.03025	0.992	1.6529	1.55571	0.00	------
6.62	delta-BHC	264	1.2081e-04	1	10	0.03025	0.992	1.6529	0.03994	0.00	------
6.72	Heptachlor	0	0.00000000	1	10	0.03025	0.992	---------	0.00000	--------	------
7.20	Aldrin	0	0.00000000	1	10	0.03025	0.992	---------	0.00000	--------	------
8.04	Heptachlor epoxide	0	0.00000000	1	10	0.03025	0.992	---------	0.00000	--------	------
8.32	gamma-Chlordane	0	0.00000000	1	10	0.03025	0.992	---------	0.00000	--------	------
8.54	alpha-Chlordane	0	0.00000000	1	10	0.03025	0.992	---------	0.00000	--------	------
8.63	Endosulfan I	0	0.00000000	1	10	0.03025	0.992	---------	0.00000	--------	------
8.81	4,4'-DDE	6119	3.3724e-03	1	10	0.03025	0.992	3.3058	1.11485	0.00	------
9.08	Dieldrin	328	1.7347e-04	1	10	0.03025	0.992	3.3058	0.05735	0.00	------
9.43	Endrin	59164	0.03607272	1	10	0.03025	0.992	3.3058	11.92487	0.00	------
9.61	4,4'-DDD	6610	4.4694e-03	1	10	0.03025	0.992	3.3058	1.47750	0.00	------
9.77	Endosulfan II	12099	7.5290e-03	1	10	0.03025	0.992	3.3058	2.48894	0.00	------
10.08	4,4'-DDT	4476	2.8103e-03	1	10	0.03025	0.992	3.3058	0.92904	0.00	------
10.25	Endrin aldehyde	10058	7.8605e-03	1	10	0.03025	0.992	3.3058	2.59850	0.00	------
10.68	Endosulfan sulfate	4150	2.8697e-03	1	10	0.03025	0.992	3.3058	0.94865	0.00	------
10.95	Methoxychlor	0	0.00000000	1	10	0.03025	0.992	---------	0.00000	--------	------
11.23	Endrin ketone	4056	2.2524e-03	1	10	0.03025	0.992	3.3058	0.74461	0.00	------
12.55	Decachlorobiphenyl	117248	0.07528633	1	10	0.03025	0.992	3.3058	24.88804	39.67	62.7

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M85

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725005

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 21150619A076,21150619B076

% Moisture: 5.6 Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/23/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	0.086	J
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	0.073	JP
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	0.36	JP
72-55-9	4,4'-DDE	0.48	JP
72-20-8	Endrin	0.86	J
33213-65-9	Endosulfan II	0.24	JP
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan sulfate	0.035	JP
50-29-3	4,4'-DDT	1.1	JP
72-43-5	Methoxychlor	0.96	JP
53494-70-5	Endrin ketone	0.47	JP
7421-93-4	Endrin aldehyde	0.39	JP
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	0.15	JP
8001-35-2	Toxaphene	180	U

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:01:27
Operator	: sagers	Sample Name	: 1515725005
Sample Number	: 076	Study	: F9M85
AutoSampler	: HP7673A	Rack/Vial	: 0/76
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/23/2015 17:01:16	Cycle	: 7

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_076.raw
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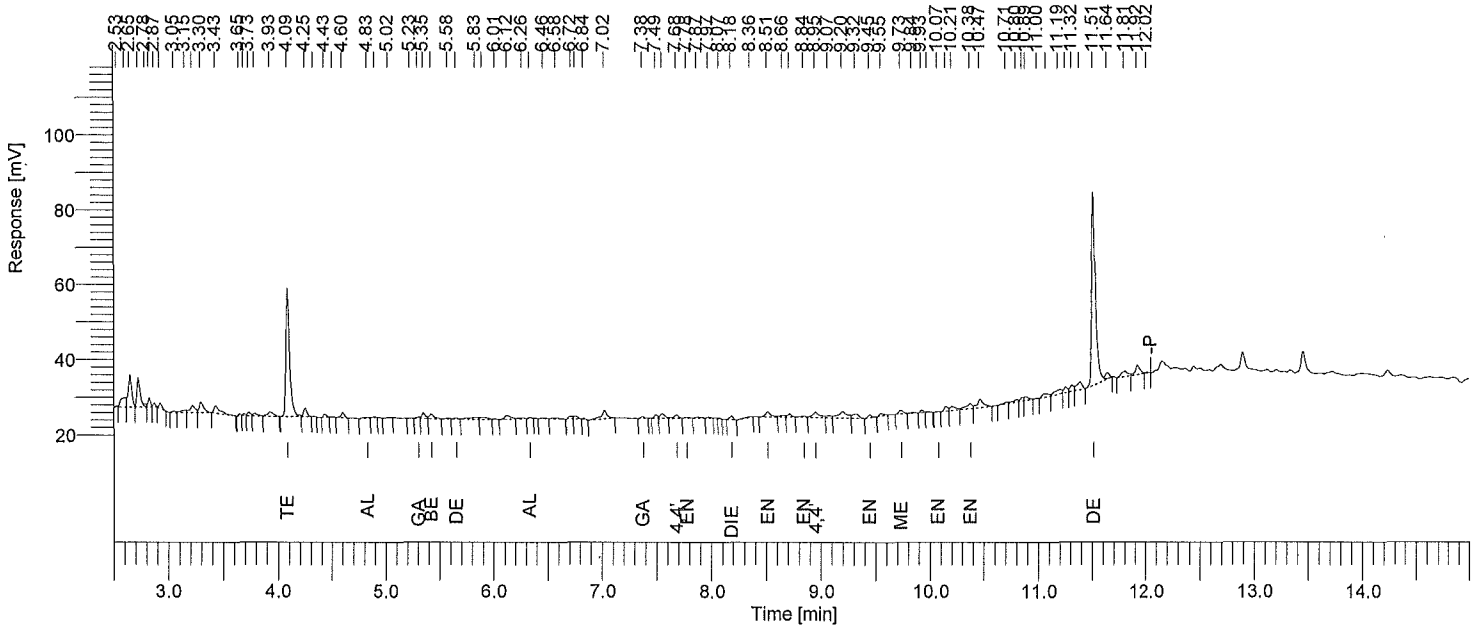
Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_076.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_076.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_soil_sample_a.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619_SOM012_PEST_F9M36_F9M15_A.seq



Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.09	Tetrachloro-m-xylene	81240	0.03501471	1	10	0.03005	0.998	1.6639	11.65215	19.97	58.4
4.83	alpha-BHC	1059	3.5077e-04	1	10	0.03005	0.998	1.6639	0.11673	0.00	------
5.30	gamma-BHC	823	2.9461e-04	1	10	0.03005	0.998	1.6639	0.09804	0.00	------
5.42	beta-BHC	4260	2.8882e-03	1	10	0.03005	0.998	1.6639	0.96113	0.00	------
5.65	delta-BHC	1187	4.3699e-04	1	10	0.03005	0.998	1.6639	0.14542	0.00	------
5.95	Heptachlor	0	0.00000000	1	10	0.03005	0.998	----------	0.00000	--------	------
6.33	Aldrin	537	2.0633e-04	1	10	0.03005	0.998	1.6639	0.06866	0.00	------
7.24	Heptachlor epoxide	0	0.00000000	1	10	0.03005	0.998	----------	0.00000	--------	------
7.38	gamma-Chlordane	1114	4.3750e-04	1	10	0.03005	0.998	1.6639	0.14559	0.00	------
7.60	alpha-Chlordane	0	0.00000000	1	10	0.03005	0.998	----------	0.00000	--------	------
7.68	4,4'-DDE	2908	1.3502e-03	1	10	0.03005	0.998	3.3278	0.44931	0.00	------
7.78	Endosulfan I	1008	3.9483e-04	1	10	0.03005	0.998	1.6639	0.13139	0.00	------
8.18	Dieldrin	2340	1.0094e-03	1	10	0.03005	0.998	3.3278	0.33590	0.00	------
8.51	Endrin	5094	2.4937e-03	1	10	0.03005	0.998	3.3278	0.82985	0.00	------
8.58	4,4'-DDD	0	0.00000000	1	10	0.03005	0.998	----------	0.00000	--------	------
8.84	Endosulfan II	1380	6.8437e-04	1	10	0.03005	0.998	3.3278	0.22774	0.00	------
8.95	4,4'-DDT	6591	3.2241e-03	1	10	0.03005	0.998	3.3278	1.07290	0.00	------
9.45	Endrin aldehyde	1912	1.1178e-03	1	10	0.03005	0.998	3.3278	0.37198	0.00	------
9.73	Methoxychlor	2786	2.7269e-03	1	10	0.03005	0.998	16.6389	0.90745	0.00	------
10.07	Endosulfan sulfate	182	9.8641e-05	1	10	0.03005	0.998	3.3278	0.03283	0.00	------
10.38	Endrin ketone	5512	2.3437e-03	1	10	0.03005	0.998	3.3278	0.77994	0.00	------
11.51	Decachlorobiphenyl	126295	0.06359729	1	10	0.03005	0.998	3.3278	21.16382	39.93	53.0

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:02:24
Operator	: sagers	Sample Name	: 1515725005
Sample Number	: 076	Study	: F9M85
AutoSampler	: HP7673A	Rack/Vial	: 0/76
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/23/2015 17:22:12	Cycle	: 8

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_076.raw
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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_076.rst
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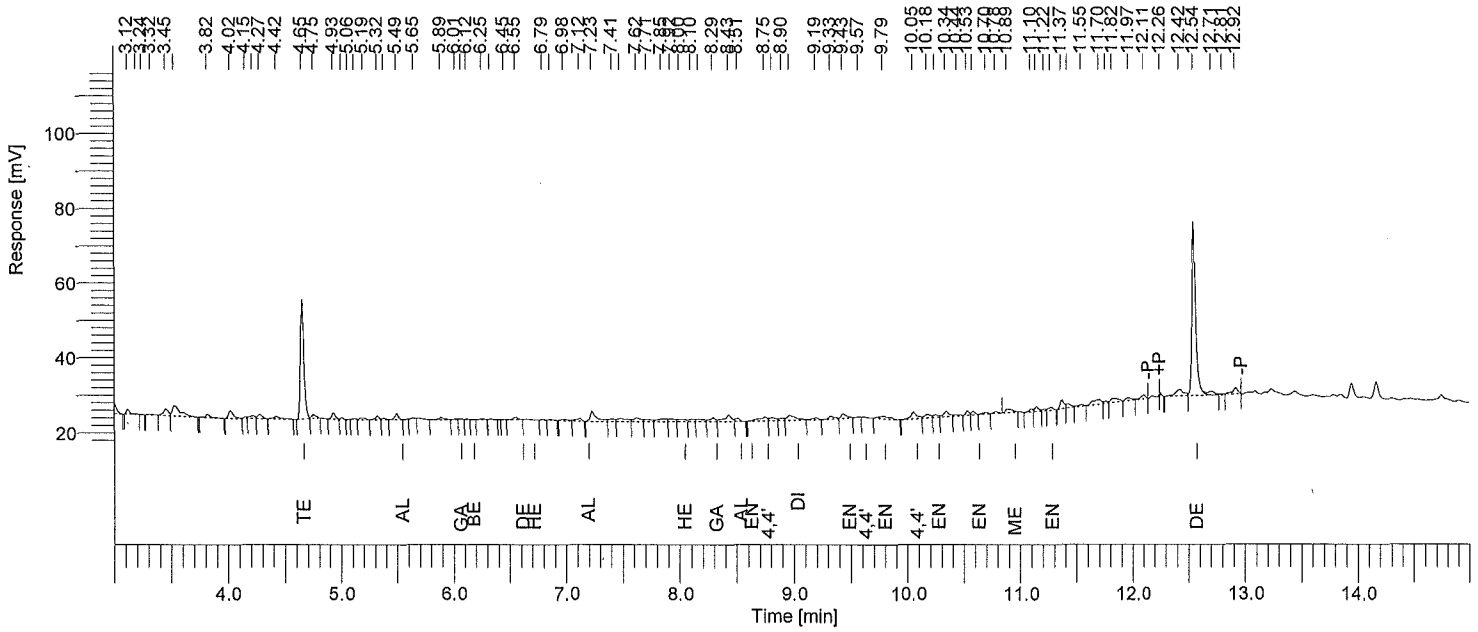

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.65	Tetrachloro-m-xylene	66477	0.03339294	1	10	0.03005	0.998	1.6639	11.11246	19.97	55.7
5.54	alpha-BHC	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
6.07	gamma-BHC	560	2.4501e-04	1	10	0.03005	0.998	1.6639	0.08153	0.00	------
6.18	beta-BHC	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
6.61	delta-BHC	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
6.72	Heptachlor	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
7.23	Aldrin	10325	5.0451e-03	1	10	0.03005	0.998	1.6639	1.67890	0.00	------
8.00	Heptachlor epoxide	3133	1.5992e-03	1	10	0.03005	0.998	1.6639	0.53217	0.00	------
8.29	gamma-Chlordane	3729	1.8344e-03	1	10	0.03005	0.998	1.6639	0.61046	0.00	------
8.51	alpha-Chlordane	1968	9.6133e-04	1	10	0.03005	0.998	1.6639	0.31991	0.00	------
8.63	Endosulfan I	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
8.75	4,4'-DDE	5278	2.9089e-03	1	10	0.03005	0.998	3.3278	0.96803	0.00	------
8.96	Dieldrin	6884	3.6452e-03	1	10	0.03005	0.998	3.3278	1.21304	0.00	------
9.43	Endrin	4014	2.4474e-03	1	10	0.03005	0.998	3.3278	0.81444	0.00	------
9.57	4,4'-DDD	414	2.7986e-04	1	10	0.03005	0.998	3.3278	0.09313	0.00	------
9.79	Endosulfan II	5065	3.1520e-03	1	10	0.03005	0.998	3.3278	1.04892	0.00	------
10.05	4,4'-DDT	7001	4.3958e-03	1	10	0.03005	0.998	3.3278	1.46282	0.00	------
10.25	Endrin aldehyde	2181	1.7042e-03	1	10	0.03005	0.998	3.3278	0.56712	0.00	------
10.59	Endosulfan sulfate	2277	1.5741e-03	1	10	0.03005	0.998	3.3278	0.52383	0.00	------
10.89	Methoxychlor	4144	5.3777e-03	1	10	0.03005	0.998	16.6389	1.78958	0.00	------
11.28	Endrin ketone	2393	1.3287e-03	1	10	0.03005	0.998	3.3278	0.44216	0.00	------
12.54	Decachlorobiphenyl	109067	0.07003338	1	10	0.03005	0.998	3.3278	23.30562	39.93	58.4

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M86

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725006

Sample wt/vol: 30.4 (g/mL) g Lab File ID: 21150619A077,21150619B077

% Moisture: 5.2 Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/23/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.042	JP
319-85-7	beta-BHC	0.11	JP
319-86-8	delta-BHC	0.18	JBP
58-89-9	gamma-BHC (Lindane)	0.15	JP
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	0.35	JP
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	0.42	J
72-55-9	4,4'-DDE	0.33	JP
72-20-8	Endrin	0.56	JP
33213-65-9	Endosulfan II	0.17	JP
72-54-8	4,4'-DDD	0.15	JP
1031-07-8	Endosulfan sulfate	3.4	U
50-29-3	4,4'-DDT	0.31	JP
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	0.29	JP
7421-93-4	Endrin aldehyde	0.17	JP
5103-71-9	alpha-Chlordane	0.17	JP
5103-74-2	gamma-Chlordane	0.12	JP
8001-35-2	Toxaphene	180	U

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:01:30
Operator	: sagers	Sample Name	: 1515725006
Sample Number	: 077	Study	: F9M86
AutoSampler	: HP7673A	Rack/Vial	: 0/77
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 17:22:12	Dilution Factor	: 1.00
		Cycle	: 8

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_077.rst
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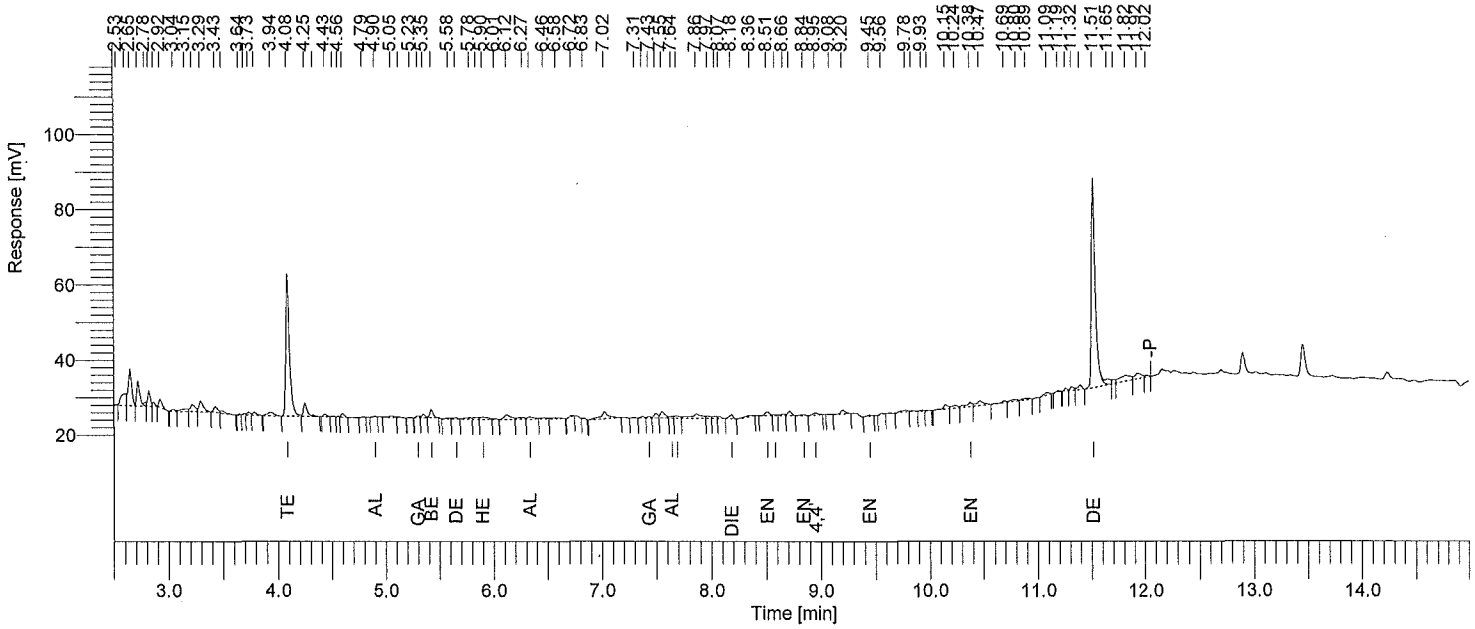

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.08	Tetrachloro-m-xylene	89494	0.03857232	1	10	0.03042	0.986	1.6437	12.67992	19.72	64.3
4.90	alpha-BHC	366	1.2117e-04	1	10	0.03042	0.986	1.6437	0.03983	0.00	------
5.30	gamma-BHC	1195	4.2740e-04	1	10	0.03042	0.986	1.6437	0.14050	0.00	------
5.42	beta-BHC	4629	3.1382e-03	1	10	0.03042	0.986	1.6437	1.03164	0.00	------
5.65	delta-BHC	1379	5.0775e-04	1	10	0.03042	0.986	1.6437	0.16691	0.00	------
5.90	Heptachlor	3092	1.0452e-03	1	10	0.03042	0.986	1.6437	0.34359	0.00	------
6.33	Aldrin	2624	1.0076e-03	1	10	0.03042	0.986	1.6437	0.33121	0.00	------
7.24	Heptachlor epoxide	0	0.00000000	1	10	0.03042	0.986	----------	0.00000	--------	------
7.43	gamma-Chlordane	890	3.4943e-04	1	10	0.03042	0.986	1.6437	0.11487	0.00	------
7.64	alpha-Chlordane	1312	5.0488e-04	1	10	0.03042	0.986	1.6437	0.16597	0.00	------
7.68	4,4'-DDE	2056	9.5467e-04	1	10	0.03042	0.986	3.2873	0.31383	0.00	------
7.80	Endosulfan I	0	0.00000000	1	10	0.03042	0.986	----------	0.00000	--------	------
8.18	Dieldrin	2784	1.2009e-03	1	10	0.03042	0.986	3.2873	0.39478	0.00	------
8.51	Endrin	3323	1.6266e-03	1	10	0.03042	0.986	3.2873	0.53473	0.00	------
8.58	4,4'-DDD	804	4.3349e-04	1	10	0.03042	0.986	3.2873	0.14250	0.00	------
8.84	Endosulfan II	983	4.8752e-04	1	10	0.03042	0.986	3.2873	0.16026	0.00	------
8.95	4,4'-DDT	1813	8.8695e-04	1	10	0.03042	0.986	3.2873	0.29157	0.00	------
9.45	Endrin aldehyde	842	4.9263e-04	1	10	0.03042	0.986	3.2873	0.16194	0.00	------
9.68	Methoxychlor	0	0.00000000	1	10	0.03042	0.986	----------	0.00000	--------	------
10.05	Endosulfan sulfate	0	0.00000000	1	10	0.03042	0.986	----------	0.00000	--------	------
10.38	Endrin ketone	4917	2.0905e-03	1	10	0.03042	0.986	3.2873	0.68721	0.00	------
11.51	Decachlorobiphenyl	138215	0.06959975	1	10	0.03042	0.986	3.2873	22.87960	39.45	58.0

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:02:26
Operator	: sagers	Sample Name	: 1515725006
Sample Number	: 077	Study	: F9M86
AutoSampler	: HP7673A	Rack/Vial	: 0/77
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 17:43:13	Dilution Factor	: 1.00
		Cycle	: 9

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_077.raw
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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_077.rst
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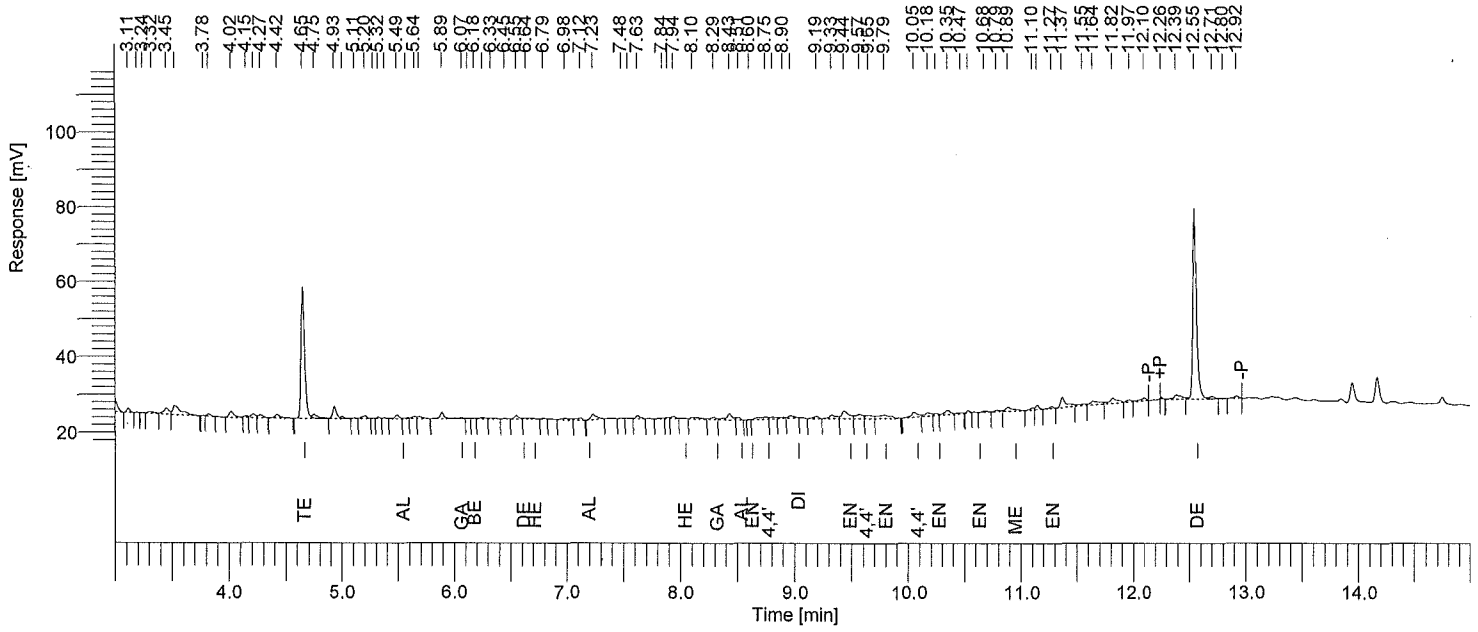

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.65	Tetrachloro-m-xylene	74015	0.03717954	1	10	0.03042	0.986	1.6437	12.22207	19.72	62.0
5.57	alpha-BHC	890	3.5639e-04	1	10	0.03042	0.986	1.6437	0.11716	0.00	------
6.07	gamma-BHC	1999	8.7504e-04	1	10	0.03042	0.986	1.6437	0.28765	0.00	------
6.18	beta-BHC	375	3.0809e-04	1	10	0.03042	0.986	1.6437	0.10128	0.00	------
6.64	delta-BHC	1518	6.9577e-04	1	10	0.03042	0.986	1.6437	0.22872	0.00	------
6.72	Heptachlor	0	0.00000000	1	10	0.03042	0.986	---------	0.00000	--------	------
7.23	Aldrin	4822	2.3561e-03	1	10	0.03042	0.986	1.6437	0.77454	0.00	------
8.04	Heptachlor epoxide	0	0.00000000	1	10	0.03042	0.986	---------	0.00000	--------	------
8.29	gamma-Chlordane	2140	1.0530e-03	1	10	0.03042	0.986	1.6437	0.34614	0.00	------
8.51	alpha-Chlordane	1673	8.1718e-04	1	10	0.03042	0.986	1.6437	0.26863	0.00	------
8.60	Endosulfan I	270	1.4736e-04	1	10	0.03042	0.986	1.6437	0.04844	0.00	------
8.75	4,4'-DDE	4244	2.3388e-03	1	10	0.03042	0.986	3.2873	0.76883	0.00	------
8.97	Dieldrin	2608	1.3810e-03	1	10	0.03042	0.986	3.2873	0.45399	0.00	------
9.44	Endrin	9319	5.6821e-03	1	10	0.03042	0.986	3.2873	1.86787	0.00	------
9.65	4,4'-DDD	4347	2.9390e-03	1	10	0.03042	0.986	3.2873	0.96615	0.00	------
9.79	Endosulfan II	8146	5.0690e-03	1	10	0.03042	0.986	3.2873	1.66635	0.00	------
10.05	4,4'-DDT	5387	3.3822e-03	1	10	0.03042	0.986	3.2873	1.11185	0.00	------
10.25	Endrin aldehyde	1558	1.2174e-03	1	10	0.03042	0.986	3.2873	0.40019	0.00	------
10.68	Endosulfan sulfate	1133	7.8364e-04	1	10	0.03042	0.986	3.2873	0.25761	0.00	------
10.89	Methoxychlor	5633	7.3102e-03	1	10	0.03042	0.986	16.4366	2.40308	0.00	------
11.27	Endrin ketone	1503	8.3484e-04	1	10	0.03042	0.986	3.2873	0.27444	0.00	------
12.55	Decachlorobiphenyl	115391	0.07409422	1	10	0.03042	0.986	3.2873	24.35707	39.45	61.7

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M87

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725007

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 21150619A078,21150619B078

% Moisture: 9.5 Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/23/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.16	J
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	0.11	JP
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	0.61	JP
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	0.26	J
72-55-9	4,4'-DDE	0.30	JP
72-20-8	Endrin	0.94	JP
33213-65-9	Endosulfan II	0.23	JP
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan sulfate	0.41	JP
50-29-3	4,4'-DDT	2.9	J
72-43-5	Methoxychlor	1.0	JP
53494-70-5	Endrin ketone	0.18	JP
7421-93-4	Endrin aldehyde	0.21	JP
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	0.12	JP
8001-35-2	Toxaphene	190	U

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:01:32
Operator	: sagers	Sample Name	: 1515725007
Sample Number	: 078	Study	: F9M87
AutoSampler	: HP7673A	Rack/Vial	: 0/78
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/23/2015 17:43:13	Cycle	: 9

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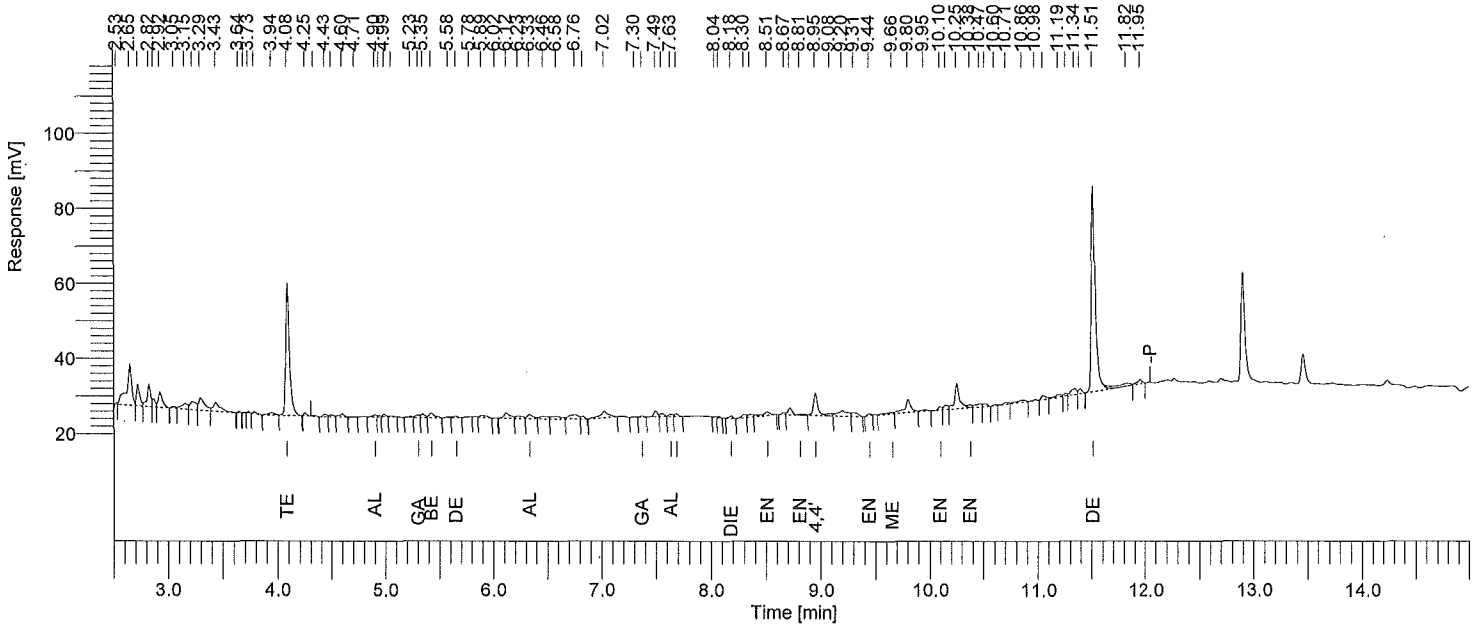
Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_078.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_078.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_soil_sample_a.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619_SOM012_PEST_F9M36_F9M15_A.seq



Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.08	Tetrachloro-m-xylene	84222	0.03629991	1	10	0.03034	0.989	1.6480	11.96437	19.78	60.5
4.90	alpha-BHC	1341	4.4400e-04	1	10	0.03034	0.989	1.6480	0.14634	0.00	------
5.30	gamma-BHC	1982	7.0911e-04	1	10	0.03034	0.989	1.6480	0.23372	0.00	------
5.42	beta-BHC	4472	3.0319e-03	1	10	0.03034	0.989	1.6480	0.99930	0.00	------
5.65	delta-BHC	1215	4.4731e-04	1	10	0.03034	0.989	1.6480	0.14743	0.00	------
5.95	Heptachlor	0	0.00000000	1	10	0.03034	0.989	----------	0.00000	--------	------
6.33	Aldrin	4355	1.6722e-03	1	10	0.03034	0.989	1.6480	0.55115	0.00	------
7.24	Heptachlor epoxide	0	0.00000000	1	10	0.03034	0.989	----------	0.00000	--------	------
7.37	gamma-Chlordane	855	3.3583e-04	1	10	0.03034	0.989	1.6480	0.11069	0.00	------
7.63	alpha-Chlordane	1643	6.3227e-04	1	10	0.03034	0.989	1.6480	0.20840	0.00	------
7.68	4,4'-DDE	1793	8.3247e-04	1	10	0.03034	0.989	3.2960	0.27438	0.00	------
7.80	Endosulfan I	0	0.00000000	1	10	0.03034	0.989	----------	0.00000	--------	------
8.18	Dieldrin	1745	7.5271e-04	1	10	0.03034	0.989	3.2960	0.24809	0.00	------
8.51	Endrin	5273	2.5816e-03	1	10	0.03034	0.989	3.2960	0.85090	0.00	------
8.58	4,4'-DDD	0	0.00000000	1	10	0.03034	0.989	----------	0.00000	--------	------
8.81	Endosulfan II	1282	6.3537e-04	1	10	0.03034	0.989	3.2960	0.20942	0.00	------
8.95	4,4'-DDT	16454	8.0490e-03	1	10	0.03034	0.989	3.2960	2.65294	0.00	------
9.44	Endrin aldehyde	997	5.8297e-04	1	10	0.03034	0.989	3.2960	0.19215	0.00	------
9.66	Methoxychlor	2907	2.8456e-03	1	10	0.03034	0.989	16.4799	0.93789	0.00	------
10.10	Endosulfan sulfate	2075	1.1241e-03	1	10	0.03034	0.989	3.2960	0.37052	0.00	------
10.38	Endrin ketone	2579	1.0967e-03	1	10	0.03034	0.989	3.2960	0.36148	0.00	------
11.51	Decachlorobiphenyl	137433	0.06920592	1	10	0.03034	0.989	3.2960	22.81013	39.55	57.7

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:02:28
Operator	: sagers	Sample Name	: 1515725007
Sample Number	: 078	Study	: F9M87
AutoSampler	: HP7673A	Rack/Vial	: 0/78
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/23/2015 18:04:09	Cycle	: 10

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_078.raw
Result File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_078.rst
Inst Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som_acq_pest from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_078.raw
Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_078.rst
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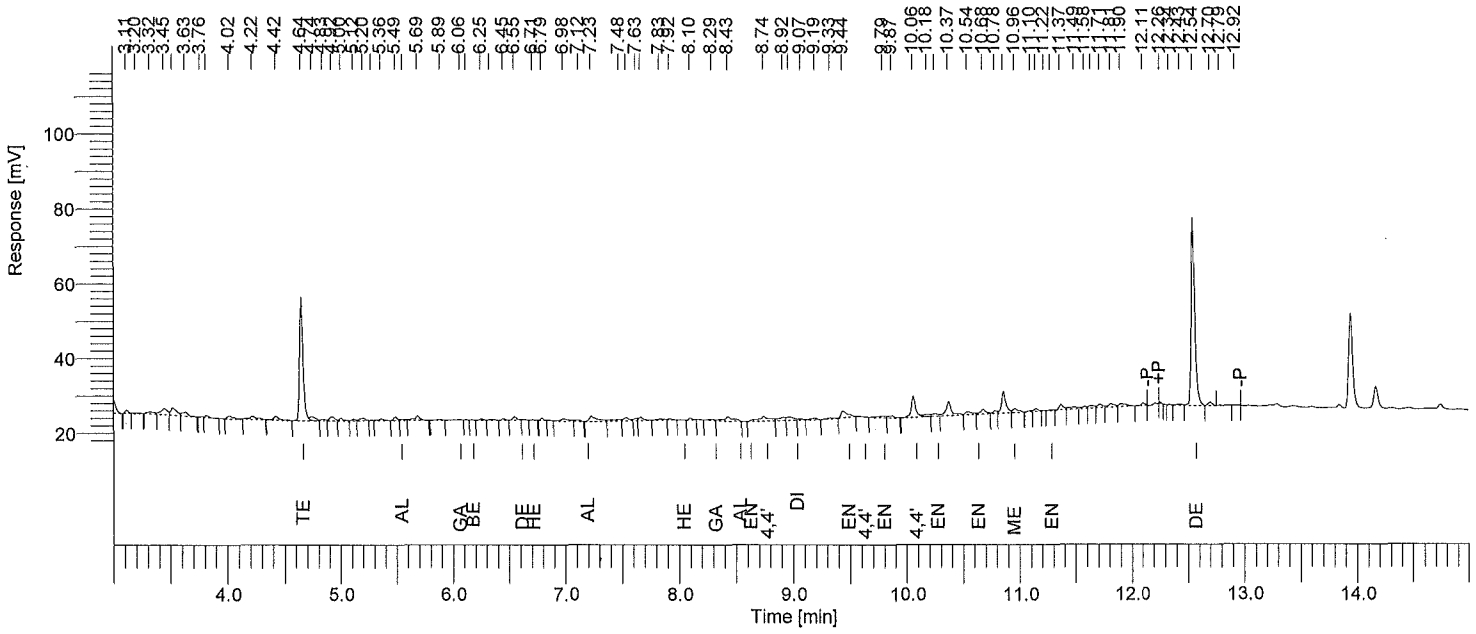

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.64	Tetrachloro-m-xylene	70735	0.03553173	1	10	0.03034	0.989	1.6480	11.71118	19.78	59.2
5.55	alpha-BHC	1384	5.5392e-04	1	10	0.03034	0.989	1.6480	0.18257	0.00	------
6.06	gamma-BHC	702	3.0723e-04	1	10	0.03034	0.989	1.6480	0.10126	0.00	------
6.18	beta-BHC	0	0.00000000	1	10	0.03034	0.989	---------	0.00000	--------	------
6.61	delta-BHC	0	0.00000000	1	10	0.03034	0.989	---------	0.00000	--------	------
6.71	Heptachlor	307	1.3247e-04	1	10	0.03034	0.989	1.6480	0.04366	0.00	------
7.23	Aldrin	7215	3.5255e-03	1	10	0.03034	0.989	1.6480	1.16199	0.00	------
8.04	Heptachlor epoxide	0	0.00000000	1	10	0.03034	0.989	---------	0.00000	--------	------
8.29	gamma-Chlordane	1047	5.1490e-04	1	10	0.03034	0.989	1.6480	0.16971	0.00	------
8.54	alpha-Chlordane	0	0.00000000	1	10	0.03034	0.989	---------	0.00000	--------	------
8.63	Endosulfan I	0	0.00000000	1	10	0.03034	0.989	---------	0.00000	--------	------
8.74	4,4'-DDE	8273	4.5592e-03	1	10	0.03034	0.989	3.2960	1.50270	0.00	------
9.07	Dieldrin	1333	7.0582e-04	1	10	0.03034	0.989	3.2960	0.23264	0.00	------
9.44	Endrin	7063	4.3065e-03	1	10	0.03034	0.989	3.2960	1.41940	0.00	------
9.63	4,4'-DDD	0	0.00000000	1	10	0.03034	0.989	---------	0.00000	--------	------
9.79	Endosulfan II	2444	1.5211e-03	1	10	0.03034	0.989	3.2960	0.50135	0.00	------
10.06	4,4'-DDT	15517	9.7427e-03	1	10	0.03034	0.989	3.2960	3.21118	0.00	------
10.25	Endrin aldehyde	2619	2.0470e-03	1	10	0.03034	0.989	3.2960	0.67470	0.00	------
10.68	Endosulfan sulfate	4533	3.1340e-03	1	10	0.03034	0.989	3.2960	1.03297	0.00	------
10.96	Methoxychlor	3821	4.9593e-03	1	10	0.03034	0.989	16.4799	1.63456	0.00	------
11.28	Endrin ketone	891	4.9500e-04	1	10	0.03034	0.989	3.2960	0.16315	0.00	------
12.54	Decachlorobiphenyl	111326	0.07148383	1	10	0.03034	0.989	3.2960	23.56092	39.55	59.6

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M88

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725008

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 21150619A079,21150619B079

% Moisture: 10. Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/23/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	0.69	JP
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	0.069	JP
309-00-2	Aldrin	1.1	J
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	0.15	JP
72-55-9	4,4'-DDE	0.10	JP
72-20-8	Endrin	0.57	JP
33213-65-9	Endosulfan II	3.7	U
72-54-8	4,4'-DDD	3.7	U
1031-07-8	Endosulfan sulfate	3.7	U
50-29-3	4,4'-DDT	0.86	J
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	0.25	JP
7421-93-4	Endrin aldehyde	0.56	JP
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	0.15	J
8001-35-2	Toxaphene	190	U

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:01:34
Operator	: sagers	Sample Name	: 1515725008
Sample Number	: 079	Study	: F9M88
AutoSampler	: HP7673A	Rack/Vial	: 0/79
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 18:04:09	Dilution Factor	: 1.00
		Cycle	: 10

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_079.raw
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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_079.rst
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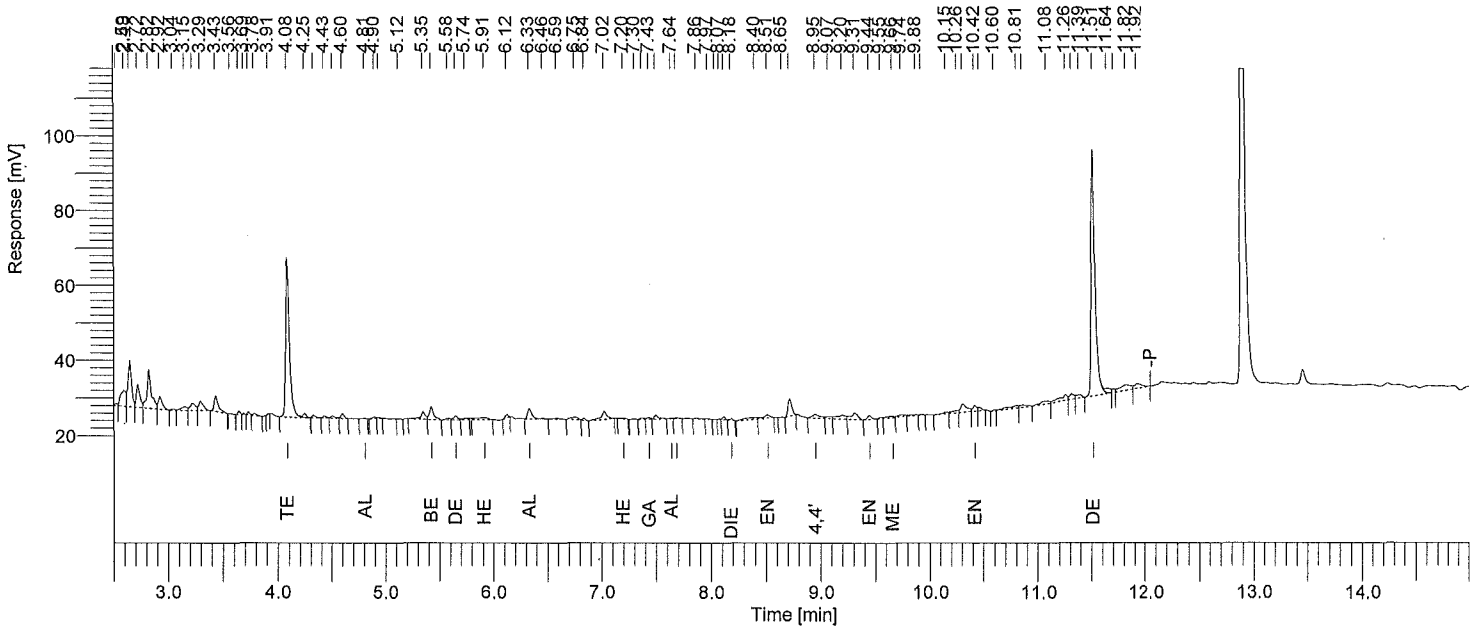


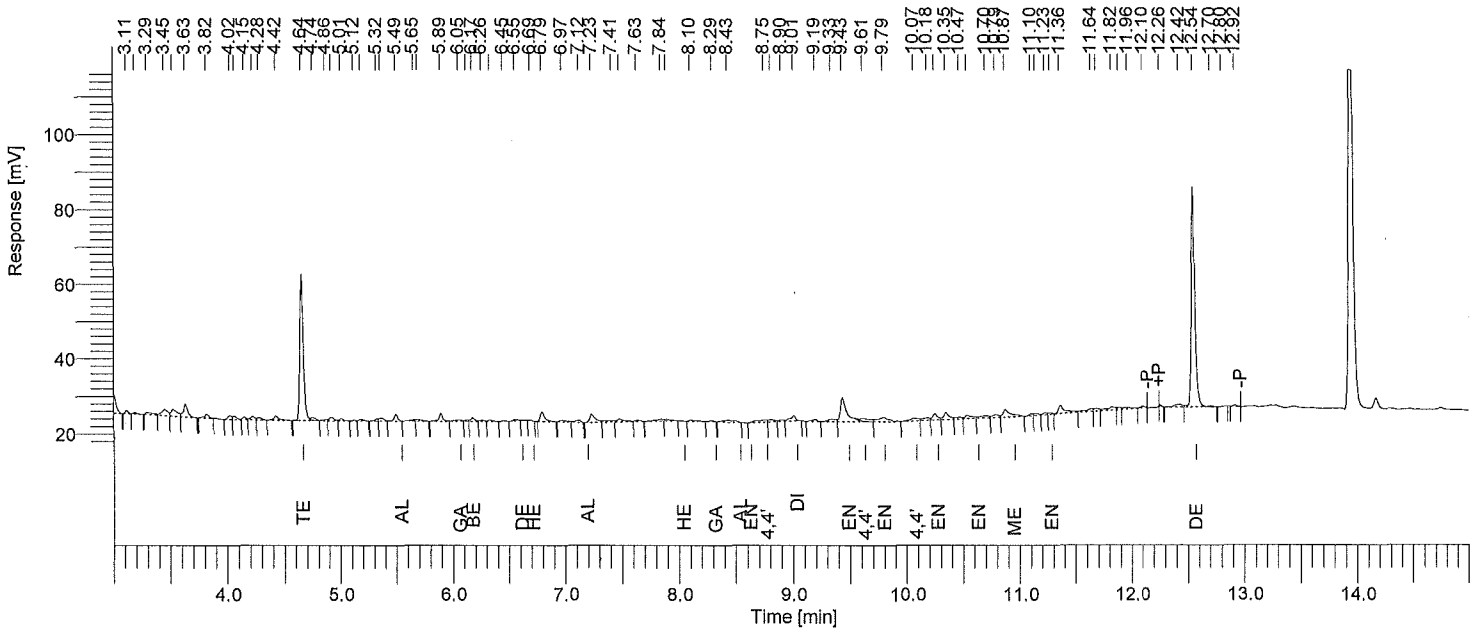
Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.08	Tetrachloro-m-xylene	101439	0.04372047	1	10	0.03022	0.993	1.6545	14.46740	19.85	72.9
4.81	alpha-BHC	285	9.4315e-05	1	10	0.03022	0.993	1.6545	0.03121	0.00	------
5.29	gamma-BHC	0	0.00000000	1	10	0.03022	0.993	----------	0.00000	--------	------
5.42	beta-BHC	9405	6.3764e-03	1	10	0.03022	0.993	1.6545	2.11001	0.00	------
5.65	delta-BHC	3003	1.1059e-03	1	10	0.03022	0.993	1.6545	0.36596	0.00	------
5.91	Heptachlor	4858	1.6425e-03	1	10	0.03022	0.993	1.6545	0.54351	0.00	------
6.33	Aldrin	7707	2.9590e-03	1	10	0.03022	0.993	1.6545	0.97916	0.00	------
7.20	Heptachlor epoxide	758	3.0533e-04	1	10	0.03022	0.993	1.6545	0.10104	0.00	------
7.43	gamma-Chlordane	1003	3.9413e-04	1	10	0.03022	0.993	1.6545	0.13042	0.00	------
7.64	alpha-Chlordane	335	1.2895e-04	1	10	0.03022	0.993	1.6545	0.04267	0.00	------
7.68	4,4'-DDE	602	2.7976e-04	1	10	0.03022	0.993	3.3091	0.09258	0.00	------
7.80	Endosulfan I	0	0.00000000	1	10	0.03022	0.993	----------	0.00000	--------	------
8.18	Dieldrin	937	4.0411e-04	1	10	0.03022	0.993	3.3091	0.13372	0.00	------
8.51	Endrin	3128	1.5315e-03	1	10	0.03022	0.993	3.3091	0.50677	0.00	------
8.58	4,4'-DDD	0	0.00000000	1	10	0.03022	0.993	----------	0.00000	--------	------
8.81	Endosulfan II	0	0.00000000	1	10	0.03022	0.993	----------	0.00000	--------	------
8.95	4,4'-DDT	5049	2.4698e-03	1	10	0.03022	0.993	3.3091	0.81727	0.00	------
9.44	Endrin aldehyde	2606	1.5236e-03	1	10	0.03022	0.993	3.3091	0.50416	0.00	------
9.66	Methoxychlor	2491	2.4380e-03	1	10	0.03022	0.993	16.5453	0.80675	0.00	------
10.05	Endosulfan sulfate	0	0.00000000	1	10	0.03022	0.993	----------	0.00000	--------	------
10.42	Endrin ketone	3534	1.5026e-03	1	10	0.03022	0.993	3.3091	0.49723	0.00	------
11.51	Decachlorobiphenyl	163310	0.08223646	1	10	0.03022	0.993	3.3091	27.21259	39.71	68.5

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:02:30
Operator	: sagers	Sample Name	: 1515725008
Sample Number	: 079	Study	: F9M88
AutoSampler	: HP7673A	Rack/Vial	: 0/79
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/23/2015 18:25:21	Cycle	: 11

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_079.raw
Result File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_079.rst
Inst Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som_acq_pest from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_079.raw
Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_079.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_079.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_soil_sample_b.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619_SOM012_PEST_F9M36_F9M15_A.seq



Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.64	Tetrachloro-m-xylene	82959	0.04167237	1	10	0.03022	0.993	1.6545	13.78966	19.85	69.5
5.54	alpha-BHC	0	0.00000000	1	10	0.03022	0.993	---------	0.00000	--------	------
6.05	gamma-BHC	1696	7.4249e-04	1	10	0.03022	0.993	1.6545	0.24570	0.00	------
6.17	beta-BHC	2285	1.8761e-03	1	10	0.03022	0.993	1.6545	0.62083	0.00	------
6.61	delta-BHC	0	0.00000000	1	10	0.03022	0.993	---------	0.00000	--------	------
6.69	Heptachlor	434	1.8708e-04	1	10	0.03022	0.993	1.6545	0.06191	0.00	------
7.23	Aldrin	7478	3.6540e-03	1	10	0.03022	0.993	1.6545	1.20912	0.00	------
8.04	Heptachlor epoxide	0	0.00000000	1	10	0.03022	0.993	---------	0.00000	--------	------
8.29	gamma-Chlordane	907	4.4635e-04	1	10	0.03022	0.993	1.6545	0.14770	0.00	------
8.54	alpha-Chlordane	0	0.00000000	1	10	0.03022	0.993	---------	0.00000	--------	------
8.63	Endosulfan I	0	0.00000000	1	10	0.03022	0.993	---------	0.00000	--------	------
8.75	4,4'-DDE	4305	2.3725e-03	1	10	0.03022	0.993	3.3091	0.78507	0.00	------
9.01	Dieldrin	4569	2.4195e-03	1	10	0.03022	0.993	3.3091	0.80062	0.00	------
9.43	Endrin	25871	0.01577357	1	10	0.03022	0.993	3.3091	5.21958	0.00	------
9.61	4,4'-DDD	4963	3.3556e-03	1	10	0.03022	0.993	3.3091	1.11038	0.00	------
9.79	Endosulfan II	8347	5.1942e-03	1	10	0.03022	0.993	3.3091	1.71879	0.00	------
10.07	4,4'-DDT	3709	2.3291e-03	1	10	0.03022	0.993	3.3091	0.77071	0.00	------
10.25	Endrin aldehyde	5060	3.9541e-03	1	10	0.03022	0.993	3.3091	1.30844	0.00	------
10.70	Endosulfan sulfate	3656	2.5275e-03	1	10	0.03022	0.993	3.3091	0.83637	0.00	------
10.95	Methoxychlor	0	0.00000000	1	10	0.03022	0.993	---------	0.00000	--------	------
11.28	Endrin ketone	1204	6.6872e-04	1	10	0.03022	0.993	3.3091	0.22128	0.00	------
12.54	Decachlorobiphenyl	130968	0.08409605	1	10	0.03022	0.993	3.3091	27.82794	39.71	70.1

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M89

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725009

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 21150619A080,21150619B080

% Moisture: 10. Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/23/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.081	JP
319-85-7	beta-BHC	1.0	JP
319-86-8	delta-BHC	0.54	JBP
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.4	JP
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	0.11	JP
72-55-9	4,4'-DDE	0.23	JP
72-20-8	Endrin	0.91	JP
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
50-29-3	4,4'-DDT	0.40	JP
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	1.3	JP
7421-93-4	Endrin aldehyde	0.19	JP
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190	U

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:01:37
Operator	: sagers	Sample Name	: 1515725009
Sample Number	: 080	Study	: F9M89
AutoSampler	: HP7673A	Rack/Vial	: 0/80
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/23/2015 18:25:21	Cycle	: 11

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_080.raw
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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_080.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_080.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_soil_sample_a.rpt
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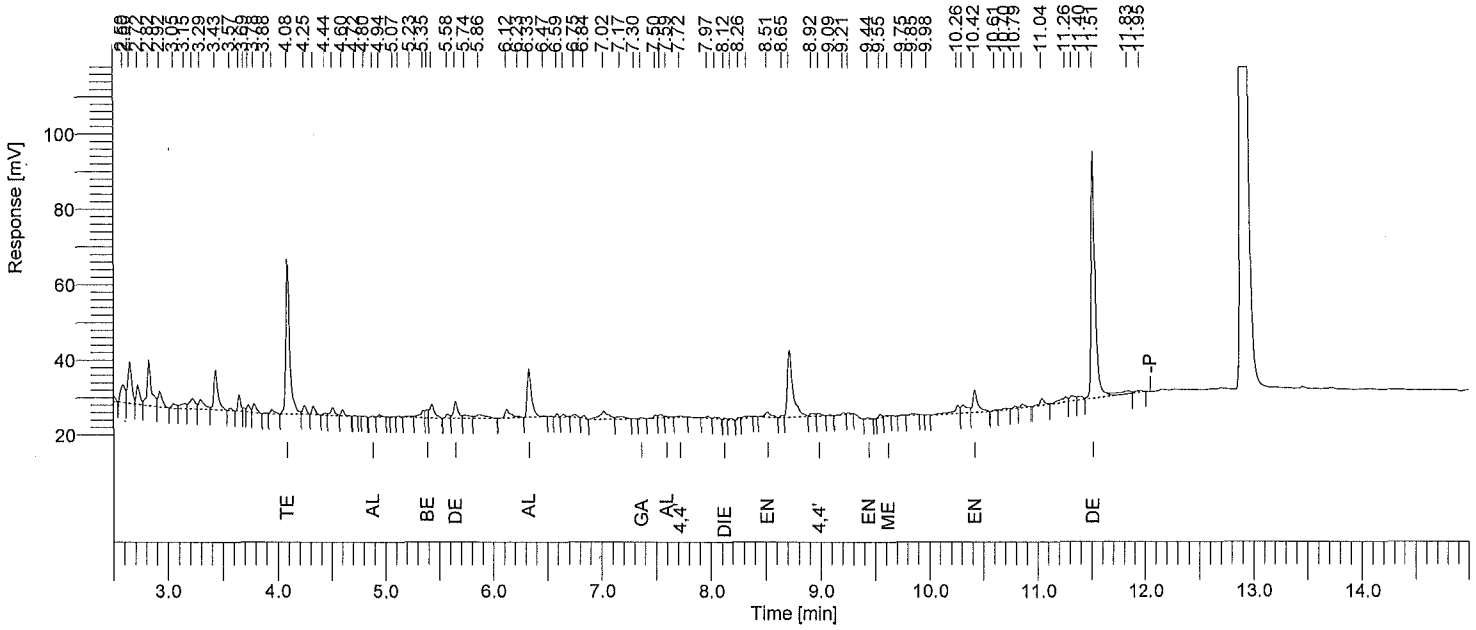

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.08	Tetrachloro-m-xylene	101782	0.04386840	1	10	0.03030	0.990	1.6502	14.47802	19.80	73.1
4.88	alpha-BHC	669	2.2156e-04	1	10	0.03030	0.990	1.6502	0.07312	0.00	------
5.29	gamma-BHC	0	0.00000000	1	10	0.03030	0.990	----------	0.00000	--------	------
5.39	beta-BHC	4107	2.7846e-03	1	10	0.03030	0.990	1.6502	0.91900	0.00	------
5.65	delta-BHC	12336	4.5424e-03	1	10	0.03030	0.990	1.6502	1.49915	0.00	------
5.95	Heptachlor	0	0.00000000	1	10	0.03030	0.990	----------	0.00000	--------	------
6.33	Aldrin	35825	0.01375520	1	10	0.03030	0.990	1.6502	4.53967	0.00	------
7.24	Heptachlor epoxide	0	0.00000000	1	10	0.03030	0.990	----------	0.00000	--------	------
7.36	gamma-Chlordane	714	2.8040e-04	1	10	0.03030	0.990	1.6502	0.09254	0.00	------
7.59	alpha-Chlordane	1274	4.8993e-04	1	10	0.03030	0.990	1.6502	0.16169	0.00	------
7.72	4,4'-DDE	1334	6.1946e-04	1	10	0.03030	0.990	3.3003	0.20444	0.00	------
7.80	Endosulfan I	0	0.00000000	1	10	0.03030	0.990	----------	0.00000	--------	------
8.12	Dieldrin	726	3.1317e-04	1	10	0.03030	0.990	3.3003	0.10336	0.00	------
8.51	Endrin	5075	2.4843e-03	1	10	0.03030	0.990	3.3003	0.81989	0.00	------
8.58	4,4'-DDD	0	0.00000000	1	10	0.03030	0.990	----------	0.00000	--------	------
8.81	Endosulfan II	0	0.00000000	1	10	0.03030	0.990	----------	0.00000	--------	------
8.98	4,4'-DDT	2245	1.0981e-03	1	10	0.03030	0.990	3.3003	0.36241	0.00	------
9.44	Endrin aldehyde	881	5.1486e-04	1	10	0.03030	0.990	3.3003	0.16992	0.00	------
9.62	Methoxychlor	958	9.3743e-04	1	10	0.03030	0.990	16.5017	0.30938	0.00	------
10.05	Endosulfan sulfate	0	0.00000000	1	10	0.03030	0.990	----------	0.00000	--------	------
10.42	Endrin ketone	19463	8.2756e-03	1	10	0.03030	0.990	3.3003	2.73122	0.00	------
11.51	Decachlorobiphenyl	168098	0.08464785	1	10	0.03030	0.990	3.3003	27.93658	39.60	70.5

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:02:33
Operator	: sagers	Sample Name	: 1515725009
Sample Number	: 080	Study	: F9M89
AutoSampler	: HP7673A	Rack/Vial	: 0/80
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 18:46:33	Dilution Factor	: 1.00
		Cycle	: 12

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_080.raw
Result File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_080.rst
Inst Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som_acq_pest from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_080.raw
Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_080.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_080.rst
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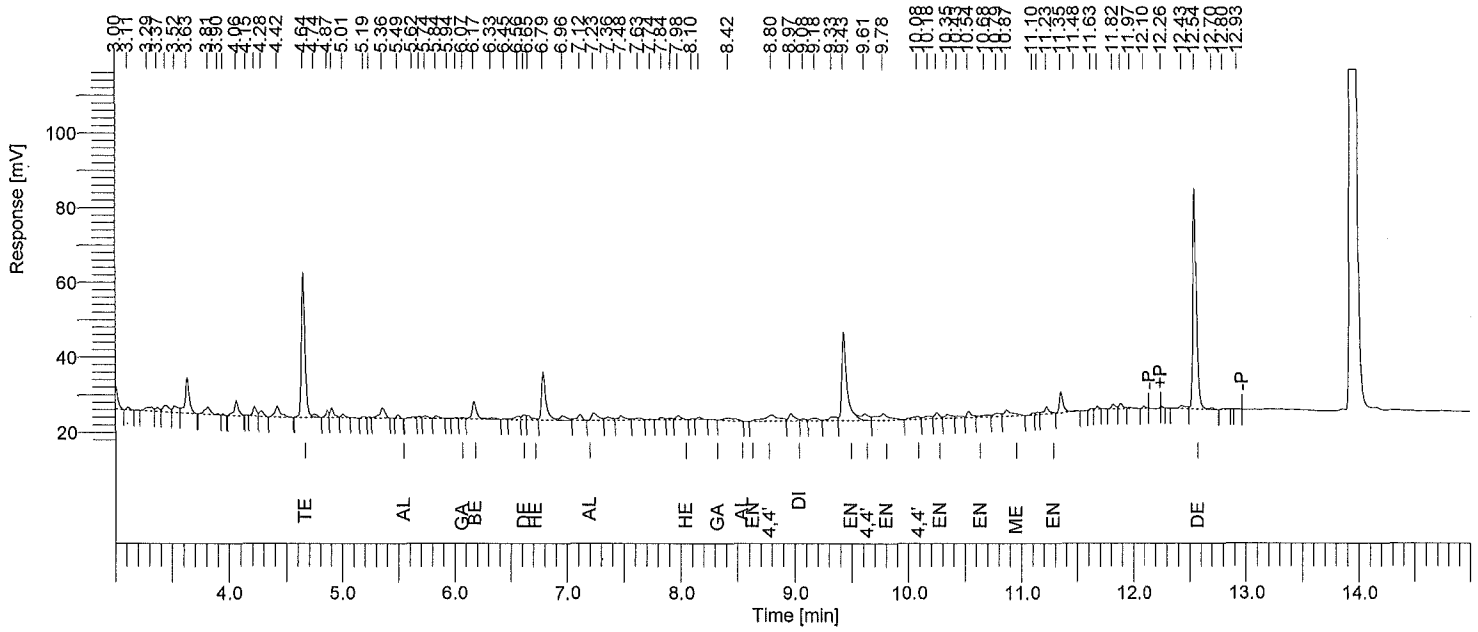

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.64	Tetrachloro-m-xylene	83320	0.04185342	1	10	0.03030	0.990	1.6502	13.81301	19.80	69.8
5.49	alpha-BHC	1744	6.9809e-04	1	10	0.03030	0.990	1.6502	0.23039	0.00	------
6.07	gamma-BHC	889	3.8931e-04	1	10	0.03030	0.990	1.6502	0.12849	0.00	------
6.17	beta-BHC	12337	0.01013125	1	10	0.03030	0.990	1.6502	3.34365	0.00	------
6.62	delta-BHC	3196	1.4650e-03	1	10	0.03030	0.990	1.6502	0.48350	0.00	------
6.72	Heptachlor	0	0.00000000	1	10	0.03030	0.990	---------	0.00000	--------	------
7.23	Aldrin	7827	3.8245e-03	1	10	0.03030	0.990	1.6502	1.26221	0.00	------
8.04	Heptachlor epoxide	0	0.00000000	1	10	0.03030	0.990	---------	0.00000	--------	------
8.32	gamma-Chlordane	0	0.00000000	1	10	0.03030	0.990	---------	0.00000	--------	------
8.54	alpha-Chlordane	0	0.00000000	1	10	0.03030	0.990	---------	0.00000	--------	------
8.63	Endosulfan I	0	0.00000000	1	10	0.03030	0.990	---------	0.00000	--------	------
8.80	4,4'-DDE	14949	8.2385e-03	1	10	0.03030	0.990	3.3003	2.71898	0.00	------
9.08	Dieldrin	1972	1.0442e-03	1	10	0.03030	0.990	3.3003	0.34461	0.00	------
9.43	Endrin	74281	0.04528995	1	10	0.03030	0.990	3.3003	14.94718	0.00	------
9.61	4,4'-DDD	7963	5.3843e-03	1	10	0.03030	0.990	3.3003	1.77700	0.00	------
9.78	Endosulfan II	13989	8.7049e-03	1	10	0.03030	0.990	3.3003	2.87290	0.00	------
10.08	4,4'-DDT	4236	2.6595e-03	1	10	0.03030	0.990	3.3003	0.87773	0.00	------
10.25	Endrin aldehyde	4643	3.6285e-03	1	10	0.03030	0.990	3.3003	1.19752	0.00	------
10.68	Endosulfan sulfate	3298	2.2801e-03	1	10	0.03030	0.990	3.3003	0.75251	0.00	------
10.95	Methoxychlor	0	0.00000000	1	10	0.03030	0.990	---------	0.00000	--------	------
11.23	Endrin ketone	6244	3.4672e-03	1	10	0.03030	0.990	3.3003	1.14429	0.00	------
12.54	Decachlorobiphenyl	130570	0.08384099	1	10	0.03030	0.990	3.3003	27.67030	39.60	69.9

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M90

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725010

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 21150619A081,21150619B081

% Moisture: 10. Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/23/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.063	JP
319-85-7	beta-BHC	1.6	JP
319-86-8	delta-BHC	0.45	JBP
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.2	JP
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	0.13	J
72-55-9	4,4'-DDE	0.024	JP
72-20-8	Endrin	1.6	JP
33213-65-9	Endosulfan II	3.7	U
72-54-8	4,4'-DDD	0.30	JP
1031-07-8	Endosulfan sulfate	3.7	U
50-29-3	4,4'-DDT	0.64	JP
72-43-5	Methoxychlor	1.3	JP
53494-70-5	Endrin ketone	0.29	JP
7421-93-4	Endrin aldehyde	0.17	JP
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190	U

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:01:40
Operator	: sagers	Sample Name	: 1515725010
Sample Number	: 081	Study	: F9M90
AutoSampler	: HP7673A	Rack/Vial	: 0/81
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 18:46:33	Dilution Factor	: 1.00
		Cycle	: 12

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_081.raw
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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_081.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_081.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_soil_sample_a.rpt
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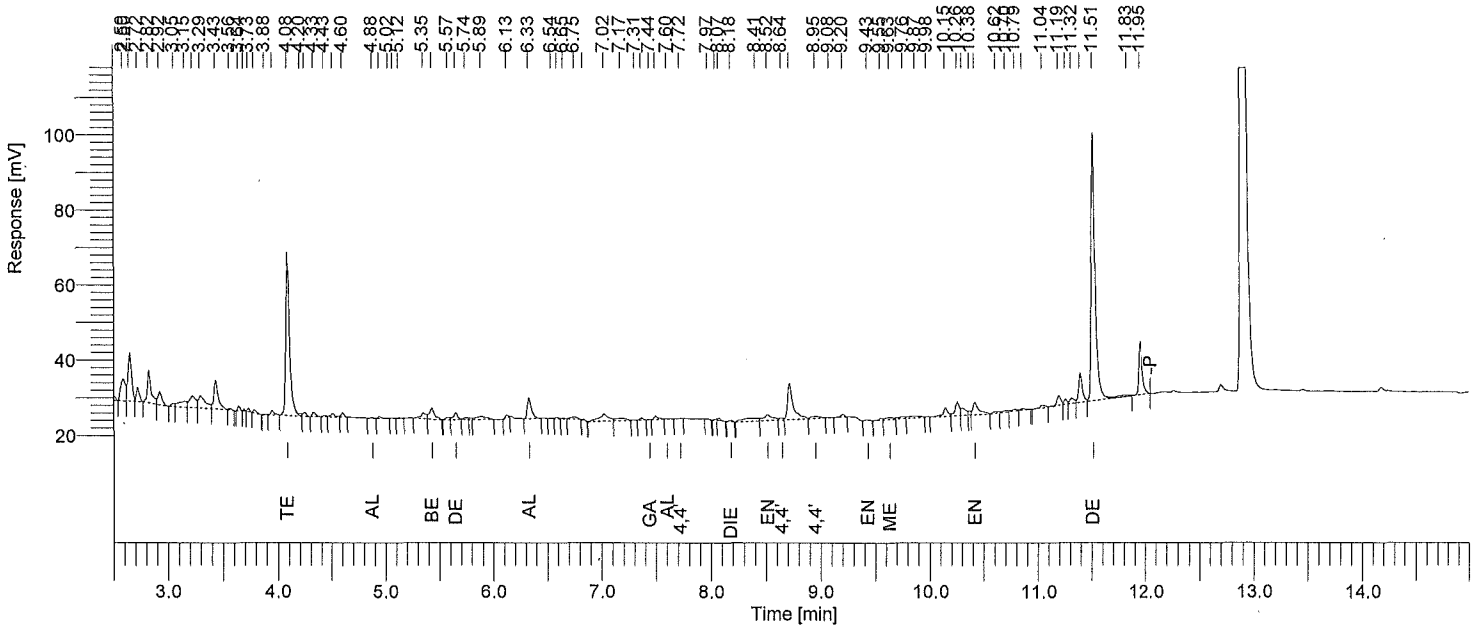

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.08	Tetrachloro-m-xylene	104725	0.04513699	1	10	0.03023	0.992	1.6540	14.93119	19.85	75.2
4.88	alpha-BHC	514	1.7023e-04	1	10	0.03023	0.992	1.6540	0.05631	0.00	------
5.29	gamma-BHC	0	0.00000000	1	10	0.03023	0.992	----------	0.00000	--------	------
5.43	beta-BHC	9737	6.6015e-03	1	10	0.03023	0.992	1.6540	2.18376	0.00	------
5.65	delta-BHC	4815	1.7732e-03	1	10	0.03023	0.992	1.6540	0.58656	0.00	------
5.95	Heptachlor	0	0.00000000	1	10	0.03023	0.992	----------	0.00000	--------	------
6.33	Aldrin	14793	5.6800e-03	1	10	0.03023	0.992	1.6540	1.87893	0.00	------
7.24	Heptachlor epoxide	0	0.00000000	1	10	0.03023	0.992	----------	0.00000	--------	------
7.44	gamma-Chlordane	243	9.5322e-05	1	10	0.03023	0.992	1.6540	0.03153	0.00	------
7.60	alpha-Chlordane	389	1.4947e-04	1	10	0.03023	0.992	1.6540	0.04945	0.00	------
7.72	4,4'-DDE	139	6.4544e-05	1	10	0.03023	0.992	3.3080	0.02135	0.00	------
7.80	Endosulfan I	0	0.00000000	1	10	0.03023	0.992	----------	0.00000	--------	------
8.18	Dieldrin	945	4.0747e-04	1	10	0.03023	0.992	3.3080	0.13479	0.00	------
8.52	Endrin	8846	4.3306e-03	1	10	0.03023	0.992	3.3080	1.43256	0.00	------
8.64	4,4'-DDD	1529	8.2417e-04	1	10	0.03023	0.992	3.3080	0.27263	0.00	------
8.81	Endosulfan II	0	0.00000000	1	10	0.03023	0.992	----------	0.00000	--------	------
8.95	4,4'-DDT	3555	1.7388e-03	1	10	0.03023	0.992	3.3080	0.57519	0.00	------
9.43	Endrin aldehyde	780	4.5629e-04	1	10	0.03023	0.992	3.3080	0.15094	0.00	------
9.63	Methoxychlor	3485	3.4113e-03	1	10	0.03023	0.992	16.5399	1.12845	0.00	------
10.05	Endosulfan sulfate	0	0.00000000	1	10	0.03023	0.992	----------	0.00000	--------	------
10.42	Endrin ketone	12801	5.4428e-03	1	10	0.03023	0.992	3.3080	1.80047	0.00	------
11.51	Decachlorobiphenyl	176847	0.08905315	1	10	0.03023	0.992	3.3080	29.45853	39.70	74.2

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:02:35
Operator	: sagers	Sample Name	: 1515725010
Sample Number	: 081	Study	: F9M90
AutoSampler	: HP7673A	Rack/Vial	: 0/81
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 19:07:43	Dilution Factor	: 1.00
		Cycle	: 13

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_081.raw
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Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_soil_sample_b.rpt
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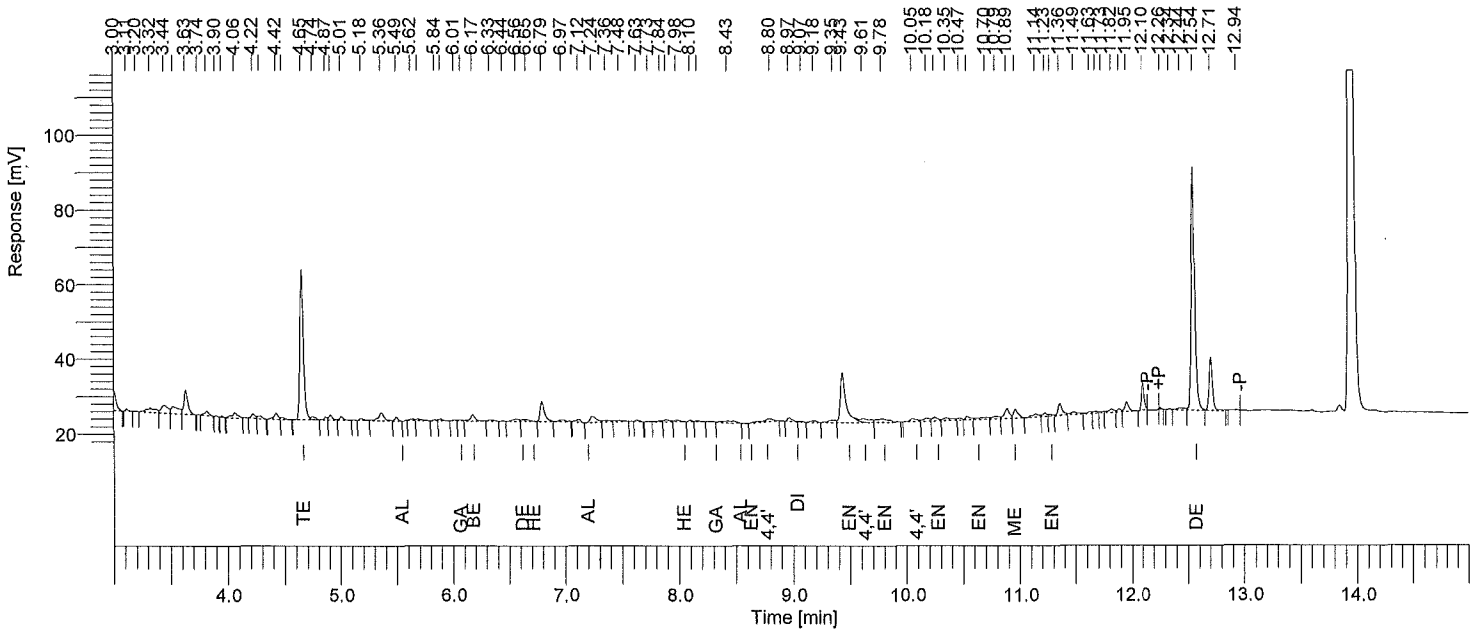

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.65	Tetrachloro-m-xylene	86506	0.04345375	1	10	0.03023	0.992	1.6540	14.37438	19.85	72.4
5.49	alpha-BHC	2021	8.0910e-04	1	10	0.03023	0.992	1.6540	0.26765	0.00	------
6.07	gamma-BHC	882	3.8595e-04	1	10	0.03023	0.992	1.6540	0.12767	0.00	------
6.17	beta-BHC	5372	4.4115e-03	1	10	0.03023	0.992	1.6540	1.45933	0.00	------
6.65	delta-BHC	2676	1.2266e-03	1	10	0.03023	0.992	1.6540	0.40576	0.00	------
6.72	Heptachlor	0	0.00000000	1	10	0.03023	0.992	---------	0.00000	--------	------
7.24	Aldrin	6586	3.2180e-03	1	10	0.03023	0.992	1.6540	1.06450	0.00	------
8.04	Heptachlor epoxide	0	0.00000000	1	10	0.03023	0.992	---------	0.00000	--------	------
8.32	gamma-Chlordane	0	0.00000000	1	10	0.03023	0.992	---------	0.00000	--------	------
8.54	alpha-Chlordane	0	0.00000000	1	10	0.03023	0.992	---------	0.00000	--------	------
8.63	Endosulfan I	0	0.00000000	1	10	0.03023	0.992	---------	0.00000	--------	------
8.80	4,4'-DDE	5441	2.9985e-03	1	10	0.03023	0.992	3.3080	0.99190	0.00	------
9.07	Dieldrin	660	3.4974e-04	1	10	0.03023	0.992	3.3080	0.11569	0.00	------
9.43	Endrin	46079	0.02809514	1	10	0.03023	0.992	3.3080	9.29379	0.00	------
9.61	4,4'-DDD	5137	3.4735e-03	1	10	0.03023	0.992	3.3080	1.14902	0.00	------
9.78	Endosulfan II	8109	5.0461e-03	1	10	0.03023	0.992	3.3080	1.66923	0.00	------
10.05	4,4'-DDT	3677	2.3088e-03	1	10	0.03023	0.992	3.3080	0.76376	0.00	------
10.25	Endrin aldehyde	3196	2.4974e-03	1	10	0.03023	0.992	3.3080	0.82615	0.00	------
10.70	Endosulfan sulfate	3788	2.6188e-03	1	10	0.03023	0.992	3.3080	0.86630	0.00	------
10.96	Methoxychlor	6941	9.0080e-03	1	10	0.03023	0.992	16.5399	2.97982	0.00	------
11.27	Endrin ketone	1404	7.7967e-04	1	10	0.03023	0.992	3.3080	0.25791	0.00	------
12.54	Decachlorobiphenyl	142081	0.09123192	1	10	0.03023	0.992	3.3080	30.17927	39.70	76.0

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M91

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725011

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 21150619A082,21150619B082

% Moisture: 8.4 Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/23/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.13	JP
319-85-7	beta-BHC	1.4	JP
319-86-8	delta-BHC	1.6	JBP
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	2.0	P
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	0.18	JP
72-55-9	4,4'-DDE	0.55	JP
72-20-8	Endrin	0.76	JP
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	0.27	JP
1031-07-8	Endosulfan sulfate	3.6	U
50-29-3	4,4'-DDT	2.1	J
72-43-5	Methoxychlor	2.8	JP
53494-70-5	Endrin ketone	1.8	JP
7421-93-4	Endrin aldehyde	0.25	JP
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190	U

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:01:42
Operator	: sagers	Sample Name	: 1515725011
Sample Number	: 082	Study	: F9M91
AutoSampler	: HP7673A	Rack/Vial	: 0/82
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/23/2015 19:07:43	Cycle	: 13

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_082.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_082.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_soil_sample_a.rpt
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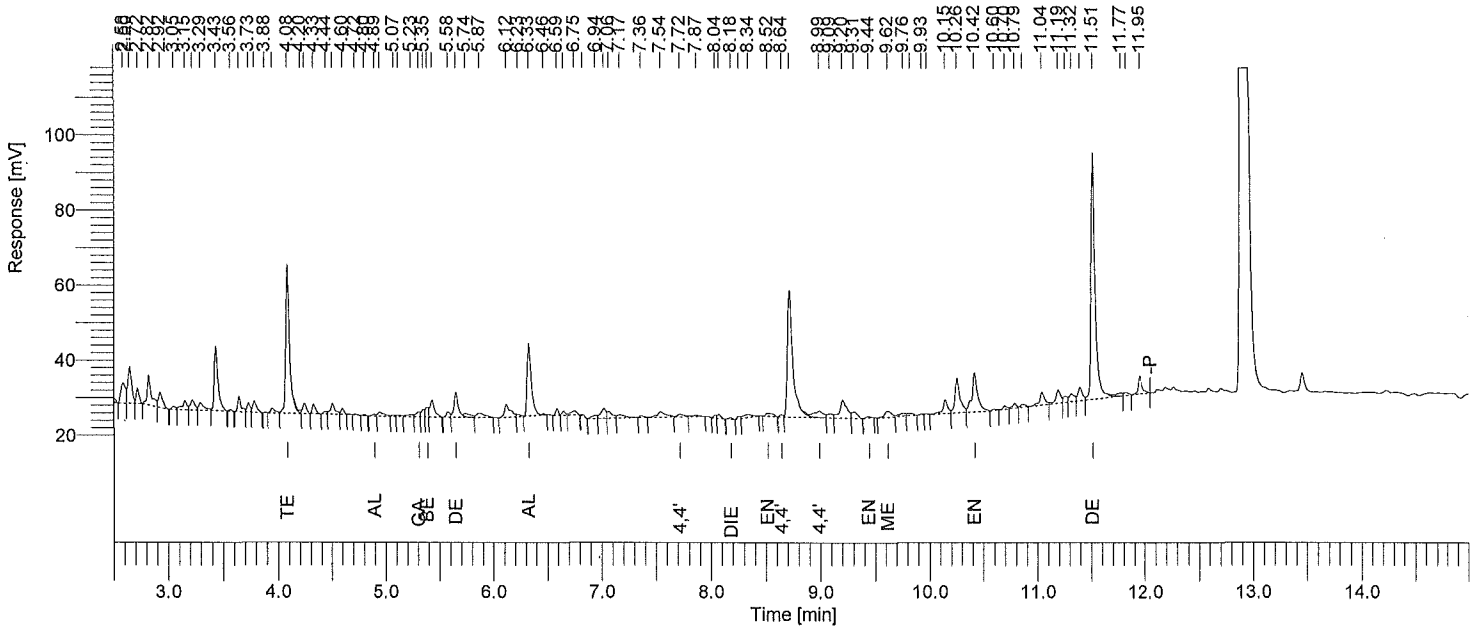

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.08	Tetrachloro-m-xylene	97580	0.04205737	1	10	0.03006	0.998	1.6633	13.99114	19.96	70.1
4.89	alpha-BHC	1435	4.7523e-04	1	10	0.03006	0.998	1.6633	0.15809	0.00	------
5.30	gamma-BHC	3462	1.2388e-03	1	10	0.03006	0.998	1.6633	0.41211	0.00	------
5.38	beta-BHC	5603	3.7992e-03	1	10	0.03006	0.998	1.6633	1.26387	0.00	------
5.65	delta-BHC	18326	6.7484e-03	1	10	0.03006	0.998	1.6633	2.24498	0.00	------
5.95	Heptachlor	0	0.00000000	1	10	0.03006	0.998	----------	0.00000	--------	------
6.33	Aldrin	53263	0.02045059	1	10	0.03006	0.998	1.6633	6.80326	0.00	------
7.24	Heptachlor epoxide	0	0.00000000	1	10	0.03006	0.998	----------	0.00000	--------	------
7.41	gamma-Chlordane	0	0.00000000	1	10	0.03006	0.998	----------	0.00000	--------	------
7.60	alpha-Chlordane	0	0.00000000	1	10	0.03006	0.998	----------	0.00000	--------	------
7.72	4,4'-DDE	3263	1.5149e-03	1	10	0.03006	0.998	3.3267	0.50397	0.00	------
7.80	Endosulfan I	0	0.00000000	1	10	0.03006	0.998	----------	0.00000	--------	------
8.18	Dieldrin	1128	4.8653e-04	1	10	0.03006	0.998	3.3267	0.16185	0.00	------
8.52	Endrin	4255	2.0830e-03	1	10	0.03006	0.998	3.3267	0.69294	0.00	------
8.64	4,4'-DDD	1355	7.3037e-04	1	10	0.03006	0.998	3.3267	0.24297	0.00	------
8.81	Endosulfan II	0	0.00000000	1	10	0.03006	0.998	----------	0.00000	--------	------
8.99	4,4'-DDT	11880	5.8112e-03	1	10	0.03006	0.998	3.3267	1.93320	0.00	------
9.44	Endrin aldehyde	1157	6.7647e-04	1	10	0.03006	0.998	3.3267	0.22504	0.00	------
9.62	Methoxychlor	7956	7.7875e-03	1	10	0.03006	0.998	16.6334	2.59065	0.00	------
10.05	Endosulfan sulfate	0	0.00000000	1	10	0.03006	0.998	----------	0.00000	--------	------
10.42	Endrin ketone	38866	0.01652568	1	10	0.03006	0.998	3.3267	5.49756	0.00	------
11.51	Decachlorobiphenyl	171472	0.08634686	1	10	0.03006	0.998	3.3267	28.72484	39.92	72.0

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:02:37
Operator	: sagers	Sample Name	: 1515725011
Sample Number	: 082	Study	: F9M91
AutoSampler	: HP7673A	Rack/Vial	: 0/82
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/23/2015 19:28:43	Cycle	: 14

Raw Data File : \\AIsltws012\TCCS\sagers\GCE21\21150619\21150619B_082.raw
Result File : \\AIsltws012\TCCS\sagers\GCE21\21150619\21150619B_082.rst
Inst Method : \\AIsltws012\TCCS\sagers\GCE21\21150619\21_som_acq_pest from \\AIsltws012\TCCS\sagers\GCE21\21150619\21150619B_082.raw
Proc Method : \\AIsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b from \\AIsltws012\TCCS\sagers\GCE21\21150619\21150619B_082.rst
Calib Method : \\AIsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b from \\AIsltws012\TCCS\sagers\GCE21\21150619\21150619B_082.rst
Report Format File: \\AIsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_soil_sample_b.rpt
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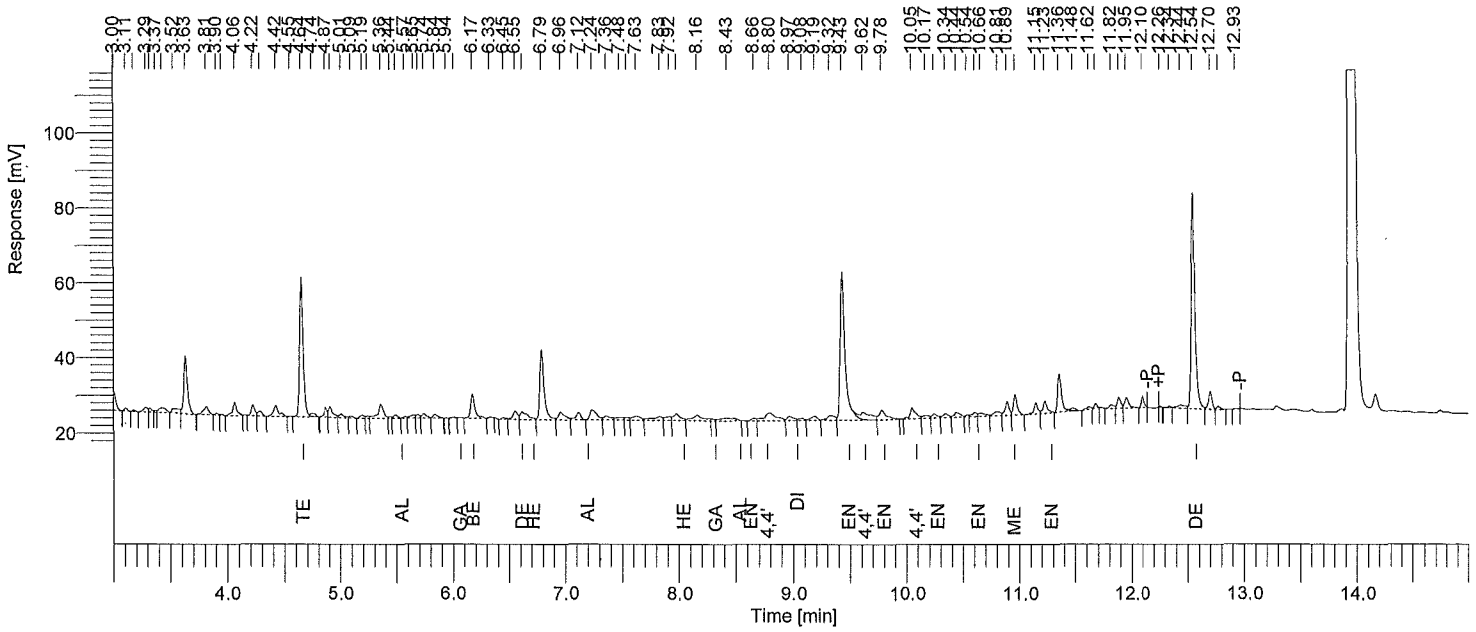

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.64	Tetrachloro-m-xylene	79922	0.04014656	1	10	0.03006	0.998	1.6633	13.35548	19.96	66.9
5.57	alpha-BHC	913	3.6529e-04	1	10	0.03006	0.998	1.6633	0.12152	0.00	------
6.06	gamma-BHC	0	0.00000000	1	10	0.03006	0.998	---------	0.00000	--------	------
6.17	beta-BHC	16933	0.01390584	1	10	0.03006	0.998	1.6633	4.62603	0.00	------
6.62	delta-BHC	9686	4.4391e-03	1	10	0.03006	0.998	1.6633	1.47676	0.00	------
6.72	Heptachlor	0	0.00000000	1	10	0.03006	0.998	---------	0.00000	--------	------
7.24	Aldrin	11356	5.5490e-03	1	10	0.03006	0.998	1.6633	1.84597	0.00	------
8.04	Heptachlor epoxide	0	0.00000000	1	10	0.03006	0.998	---------	0.00000	--------	------
8.32	gamma-Chlordane	0	0.00000000	1	10	0.03006	0.998	---------	0.00000	--------	------
8.54	alpha-Chlordane	0	0.00000000	1	10	0.03006	0.998	---------	0.00000	--------	------
8.66	Endosulfan I	2025	1.1034e-03	1	10	0.03006	0.998	1.6633	0.36708	0.00	------
8.80	4,4'-DDE	15540	8.5644e-03	1	10	0.03006	0.998	3.3267	2.84909	0.00	------
9.08	Dieldrin	2073	1.0975e-03	1	10	0.03006	0.998	3.3267	0.36511	0.00	------
9.43	Endrin	120917	0.07372457	1	10	0.03006	0.998	3.3267	24.52580	0.00	------
9.62	4,4'-DDD	13815	9.3408e-03	1	10	0.03006	0.998	3.3267	3.10739	0.00	------
9.78	Endosulfan II	12101	7.5301e-03	1	10	0.03006	0.998	3.3267	2.50501	0.00	------
10.05	4,4'-DDT	10332	6.4874e-03	1	10	0.03006	0.998	3.3267	2.15815	0.00	------
10.24	Endrin aldehyde	3279	2.5626e-03	1	10	0.03006	0.998	3.3267	0.85249	0.00	------
10.66	Endosulfan sulfate	3571	2.4690e-03	1	10	0.03006	0.998	3.3267	0.82134	0.00	------
10.96	Methoxychlor	12823	0.01664212	1	10	0.03006	0.998	16.6334	5.53630	0.00	------
11.23	Endrin ketone	8868	4.9243e-03	1	10	0.03006	0.998	3.3267	1.63817	0.00	------
12.54	Decachlorobiphenyl	131547	0.08446840	1	10	0.03006	0.998	3.3267	28.09993	39.92	70.4

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M92

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725014

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 21150619A085,21150619B085

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/23/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	0.18	JP
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	0.41	J
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	0.10	JP
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	0.20	JP
72-55-9	4,4'-DDE	0.093	JP
72-20-8	Endrin	0.44	JP
33213-65-9	Endosulfan II	0.030	JP
72-54-8	4,4'-DDD	3.7	U
1031-07-8	Endosulfan sulfate	0.51	J
50-29-3	4,4'-DDT	0.61	JP
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	0.21	JP
7421-93-4	Endrin aldehyde	0.35	JP
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190	U

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:01:48
Operator	: sagers	Sample Name	: 1515725014
Sample Number	: 085	Study	: F9M92
AutoSampler	: HP7673A	Rack/Vial	: 0/85
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/23/2015 20:10:38	Cycle	: 16

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_085.raw
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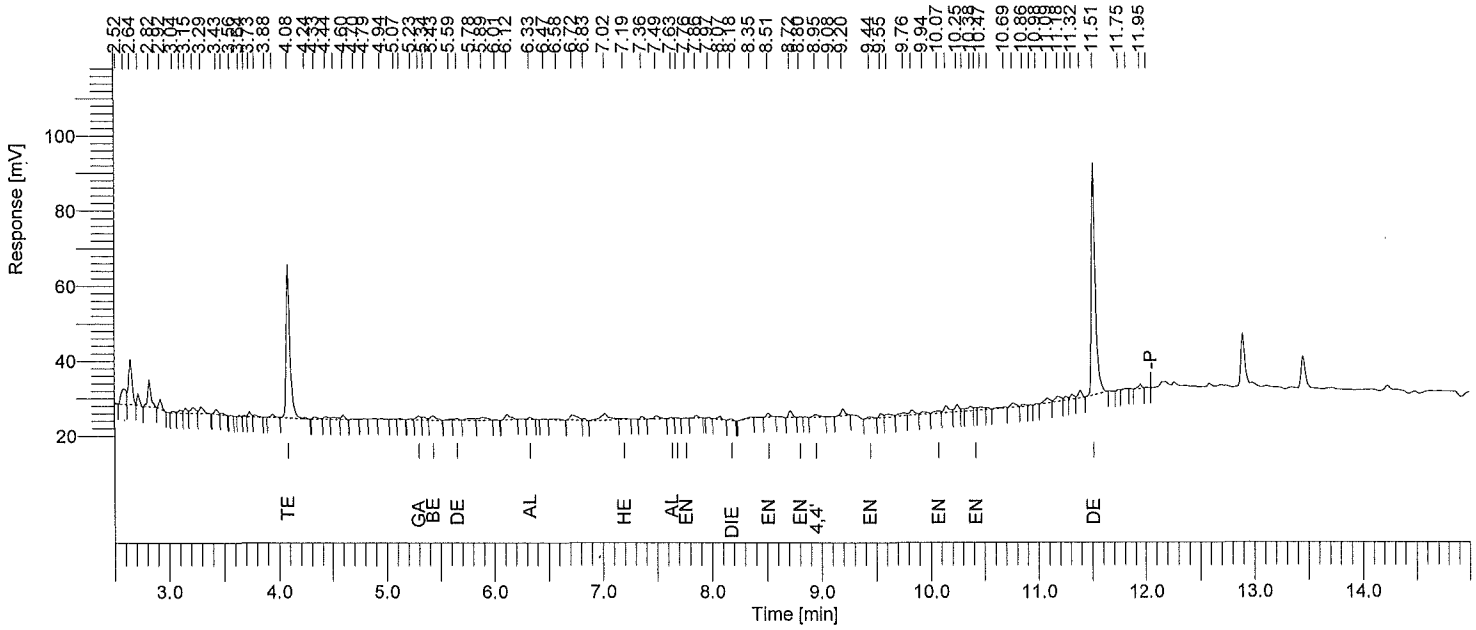
Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_085.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_085.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_soil_sample_a.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619_SOM012_PEST_F9M36_F9M15_A.seq



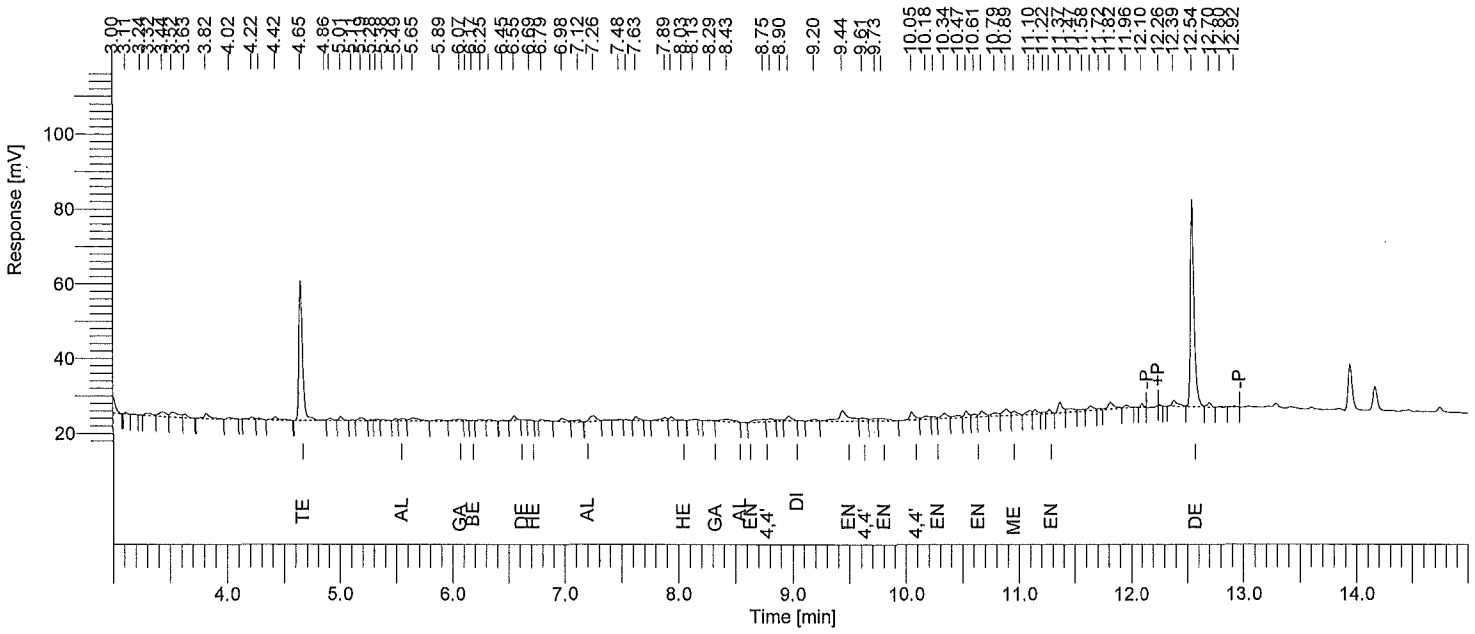
Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.08	Tetrachloro-m-xylene	98065	0.04226640	1	10	0.03001	1.000	1.6661	14.08411	19.99	70.4
4.85	alpha-BHC	0	0.00000000	1	10	0.03001	1.000	----------	0.00000	--------	------
5.30	gamma-BHC	3084	1.1036e-03	1	10	0.03001	1.000	1.6661	0.36776	0.00	------
5.43	beta-BHC	4661	3.1602e-03	1	10	0.03001	1.000	1.6661	1.05306	0.00	------
5.65	delta-BHC	1850	6.8110e-04	1	10	0.03001	1.000	1.6661	0.22696	0.00	------
5.95	Heptachlor	0	0.00000000	1	10	0.03001	1.000	----------	0.00000	--------	------
6.33	Aldrin	1290	4.9548e-04	1	10	0.03001	1.000	1.6661	0.16511	0.00	------
7.19	Heptachlor epoxide	1383	5.5746e-04	1	10	0.03001	1.000	1.6661	0.18576	0.00	------
7.41	gamma-Chlordane	0	0.00000000	1	10	0.03001	1.000	----------	0.00000	--------	------
7.63	alpha-Chlordane	821	3.1592e-04	1	10	0.03001	1.000	1.6661	0.10527	0.00	------
7.68	4,4'-DDE	533	2.4752e-04	1	10	0.03001	1.000	3.3322	0.08248	0.00	------
7.76	Endosulfan I	161	6.3226e-05	1	10	0.03001	1.000	1.6661	0.02107	0.00	------
8.18	Dieldrin	1256	5.4176e-04	1	10	0.03001	1.000	3.3322	0.18053	0.00	------
8.51	Endrin	2381	1.1654e-03	1	10	0.03001	1.000	3.3322	0.38834	0.00	------
8.58	4,4'-DDD	0	0.00000000	1	10	0.03001	1.000	----------	0.00000	--------	------
8.80	Endosulfan II	162	8.0076e-05	1	10	0.03001	1.000	3.3322	0.02668	0.00	------
8.95	4,4'-DDT	3277	1.6028e-03	1	10	0.03001	1.000	3.3322	0.53409	0.00	------
9.44	Endrin aldehyde	1567	9.1655e-04	1	10	0.03001	1.000	3.3322	0.30541	0.00	------
9.68	Methoxychlor	0	0.00000000	1	10	0.03001	1.000	----------	0.00000	--------	------
10.07	Endosulfan sulfate	2509	1.3591e-03	1	10	0.03001	1.000	3.3322	0.45290	0.00	------
10.42	Endrin ketone	1294	5.5036e-04	1	10	0.03001	1.000	3.3322	0.18339	0.00	------
11.51	Decachlorobiphenyl	148834	0.07494730	1	10	0.03001	1.000	3.3322	24.97411	39.99	62.5

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:02:44
Operator	: sagers	Sample Name	: 1515725014
Sample Number	: 085	Study	: F9M92
AutoSampler	: HP7673A	Rack/Vial	: 0/85
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 20:31:34	Dilution Factor	: 1.00
		Cycle	: 17

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_085.raw
Result File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_085.rst
Inst Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som_acq_pest from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_085.raw
Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_085.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_085.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_soil_sample_b.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619_SOM012_PEST_F9M36_F9M15_A.seq



Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.65	Tetrachloro-m-xylene	82485	0.04143389	1	10	0.03001	1.000	1.6661	13.80669	19.99	69.1
5.56	alpha-BHC	2167	8.6754e-04	1	10	0.03001	1.000	1.6661	0.28908	0.00	------
6.07	gamma-BHC	2455	1.0746e-03	1	10	0.03001	1.000	1.6661	0.35808	0.00	------
6.17	beta-BHC	596	4.8972e-04	1	10	0.03001	1.000	1.6661	0.16319	0.00	------
6.61	delta-BHC	0	0.00000000	1	10	0.03001	1.000	---------	0.00000	--------	------
6.69	Heptachlor	300	1.2946e-04	1	10	0.03001	1.000	1.6661	0.04314	0.00	------
7.20	Aldrin	0	0.00000000	1	10	0.03001	1.000	---------	0.00000	--------	------
8.03	Heptachlor epoxide	520	2.6559e-04	1	10	0.03001	1.000	1.6661	0.08850	0.00	------
8.29	gamma-Chlordane	850	4.1822e-04	1	10	0.03001	1.000	1.6661	0.13936	0.00	------
8.54	alpha-Chlordane	0	0.00000000	1	10	0.03001	1.000	---------	0.00000	--------	------
8.63	Endosulfan I	0	0.00000000	1	10	0.03001	1.000	---------	0.00000	--------	------
8.75	4,4'-DDE	4606	2.5382e-03	1	10	0.03001	1.000	3.3322	0.84578	0.00	------
8.97	Dieldrin	4034	2.1361e-03	1	10	0.03001	1.000	3.3322	0.71180	0.00	------
9.44	Endrin	17865	0.01089275	1	10	0.03001	1.000	3.3322	3.62971	0.00	------
9.61	4,4'-DDD	3622	2.4488e-03	1	10	0.03001	1.000	3.3322	0.81599	0.00	------
9.78	Endosulfan II	4868	3.0296e-03	1	10	0.03001	1.000	3.3322	1.00953	0.00	------
10.05	4,4'-DDT	6806	4.2732e-03	1	10	0.03001	1.000	3.3322	1.42391	0.00	------
10.25	Endrin aldehyde	1738	1.3582e-03	1	10	0.03001	1.000	3.3322	0.45259	0.00	------
10.61	Endosulfan sulfate	2331	1.6117e-03	1	10	0.03001	1.000	3.3322	0.53706	0.00	------
10.96	Methoxychlor	3612	4.6874e-03	1	10	0.03001	1.000	16.6611	1.56194	0.00	------
11.27	Endrin ketone	2402	1.3339e-03	1	10	0.03001	1.000	3.3322	0.44449	0.00	------
12.54	Decachlorobiphenyl	125741	0.08074012	1	10	0.03001	1.000	3.3322	26.90441	39.99	67.3

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M93

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725015

Sample wt/vol: 30.4 (g/mL) g Lab File ID: 21150619A086,21150619B086

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/23/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.055	JP
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	0.57	JP
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	0.24	JP
72-55-9	4,4'-DDE	0.061	JP
72-20-8	Endrin	1.0	JP
33213-65-9	Endosulfan II	0.17	JP
72-54-8	4,4'-DDD	3.7	U
1031-07-8	Endosulfan sulfate	0.14	JP
50-29-3	4,4'-DDT	0.24	JP
72-43-5	Methoxychlor	1.2	J
53494-70-5	Endrin ketone	0.024	JP
7421-93-4	Endrin aldehyde	0.19	JP
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	0.11	JP
8001-35-2	Toxaphene	190	U

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:01:50
Operator	: sagers	Sample Name	: 1515725015
Sample Number	: 086	Study	: F9M93
AutoSampler	: HP7673A	Rack/Vial	: 0/86
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 20:31:34	Dilution Factor	: 1.00
		Cycle	: 17

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_086.raw
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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_086.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_086.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_soil_sample_a.rpt
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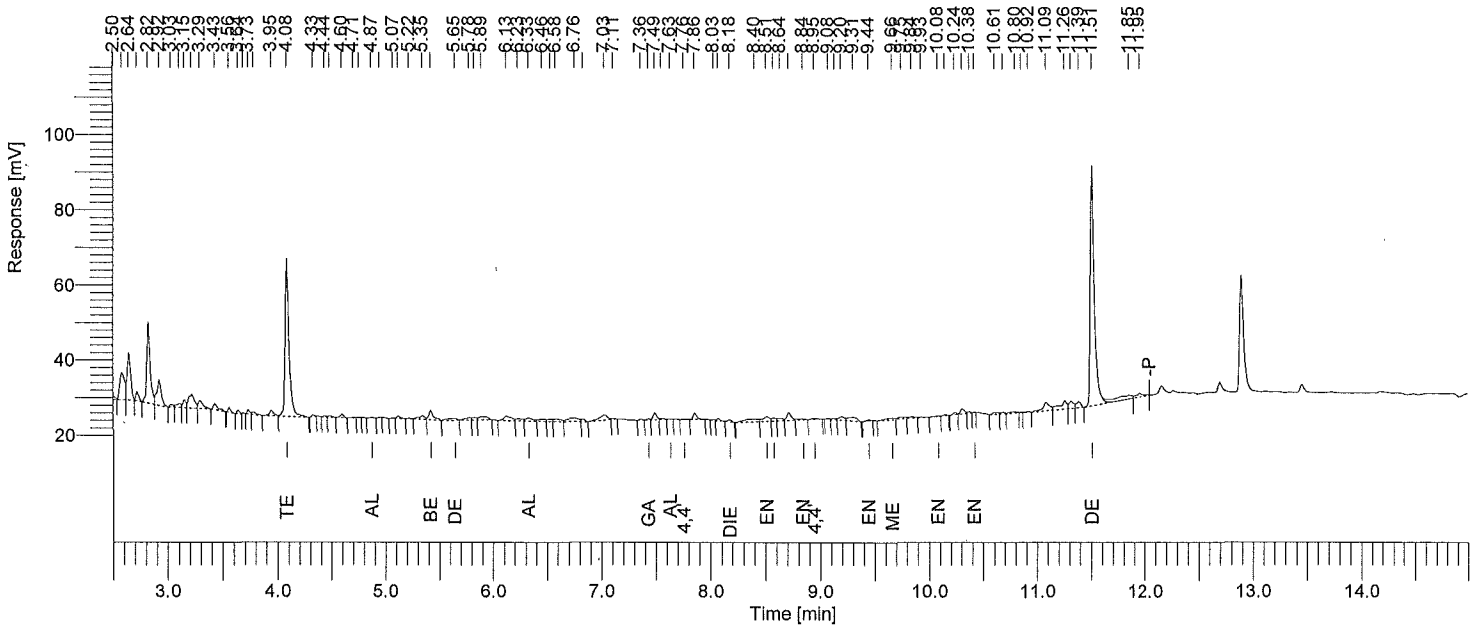

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.08	Tetrachloro-m-xylene	104671	0.04511380	1	10	0.03043	0.986	1.6431	14.82544	19.72	75.2
4.87	alpha-BHC	448	1.4828e-04	1	10	0.03043	0.986	1.6431	0.04873	0.00	------
5.29	gamma-BHC	0	0.00000000	1	10	0.03043	0.986	----------	0.00000	--------	------
5.42	beta-BHC	7024	4.7622e-03	1	10	0.03043	0.986	1.6431	1.56496	0.00	------
5.65	delta-BHC	2984	1.0987e-03	1	10	0.03043	0.986	1.6431	0.36106	0.00	------
5.95	Heptachlor	0	0.00000000	1	10	0.03043	0.986	----------	0.00000	--------	------
6.33	Aldrin	3951	1.5171e-03	1	10	0.03043	0.986	1.6431	0.49854	0.00	------
7.24	Heptachlor epoxide	0	0.00000000	1	10	0.03043	0.986	----------	0.00000	--------	------
7.43	gamma-Chlordane	741	2.9100e-04	1	10	0.03043	0.986	1.6431	0.09563	0.00	------
7.63	alpha-Chlordane	263	1.0107e-04	1	10	0.03043	0.986	1.6431	0.03321	0.00	------
7.76	4,4'-DDE	351	1.6295e-04	1	10	0.03043	0.986	3.2862	0.05355	0.00	------
7.80	Endosulfan I	0	0.00000000	1	10	0.03043	0.986	----------	0.00000	--------	------
8.18	Dieldrin	1491	6.4332e-04	1	10	0.03043	0.986	3.2862	0.21141	0.00	------
8.51	Endrin	5613	2.7478e-03	1	10	0.03043	0.986	3.2862	0.90300	0.00	------
8.58	4,4'-DDD	2537	1.3674e-03	1	10	0.03043	0.986	3.2862	0.44935	0.00	------
8.84	Endosulfan II	1826	9.0542e-04	1	10	0.03043	0.986	3.2862	0.29754	0.00	------
8.95	4,4'-DDT	1333	6.5227e-04	1	10	0.03043	0.986	3.2862	0.21435	0.00	------
9.44	Endrin aldehyde	869	5.0841e-04	1	10	0.03043	0.986	3.2862	0.16707	0.00	------
9.66	Methoxychlor	3553	3.4775e-03	1	10	0.03043	0.986	16.4312	1.14279	0.00	------
10.08	Endosulfan sulfate	700	3.7933e-04	1	10	0.03043	0.986	3.2862	0.12466	0.00	------
10.42	Endrin ketone	151	6.4057e-05	1	10	0.03043	0.986	3.2862	0.02105	0.00	------
11.51	Decachlorobiphenyl	158291	0.07970940	1	10	0.03043	0.986	3.2862	26.19435	39.43	66.4

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:02:46
Operator	: sagers	Sample Name	: 1515725015
Sample Number	: 086	Study	: F9M93
AutoSampler	: HP7673A	Rack/Vial	: 0/86
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 20:52:28	Dilution Factor	: 1.00
		Cycle	: 18

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_086.raw
Result File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_086.rst
Inst Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som_acq_pest from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_086.raw
Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_086.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_086.rst
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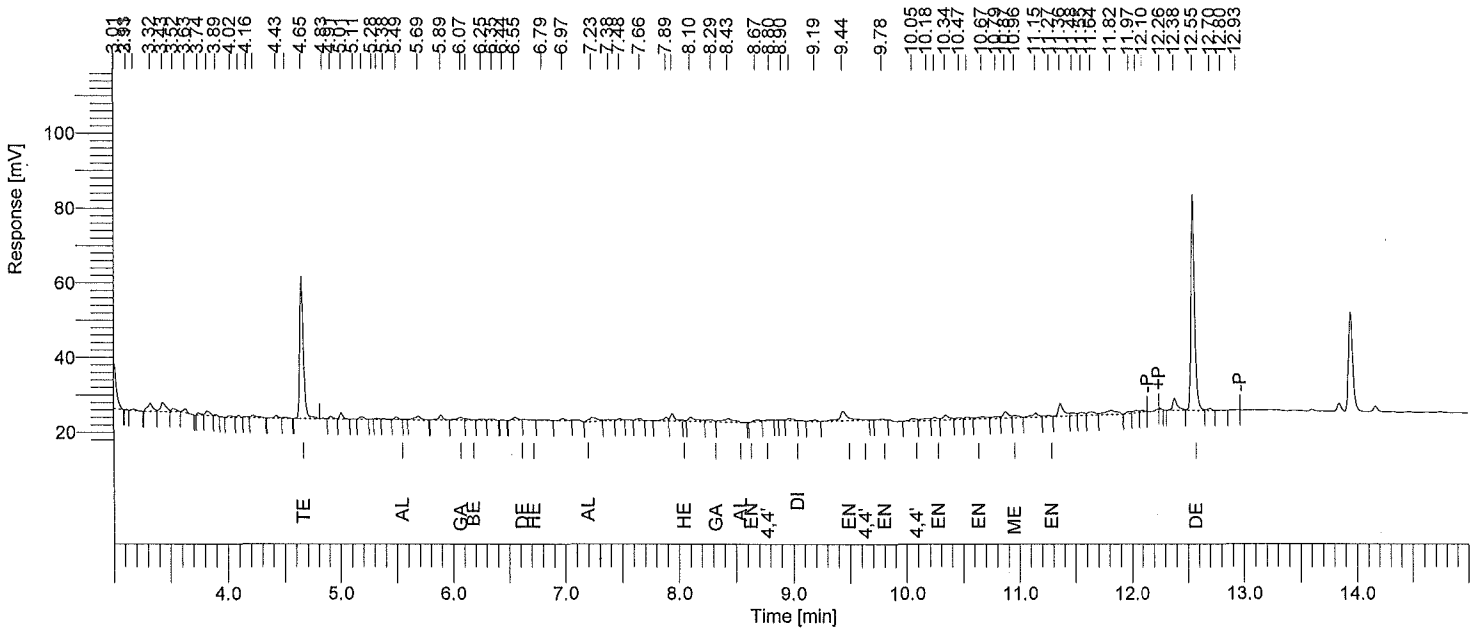

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.65	Tetrachloro-m-xylene	83066	0.04172605	1	10	0.03043	0.986	1.6431	13.71214	19.72	69.5
5.49	alpha-BHC	1440	5.7653e-04	1	10	0.03043	0.986	1.6431	0.18946	0.00	------
6.07	gamma-BHC	3416	1.4954e-03	1	10	0.03043	0.986	1.6431	0.49141	0.00	------
6.18	beta-BHC	0	0.00000000	1	10	0.03043	0.986	---------	0.00000	--------	------
6.61	delta-BHC	0	0.00000000	1	10	0.03043	0.986	---------	0.00000	--------	------
6.72	Heptachlor	0	0.00000000	1	10	0.03043	0.986	---------	0.00000	--------	------
7.23	Aldrin	5479	2.6772e-03	1	10	0.03043	0.986	1.6431	0.87978	0.00	------
8.04	Heptachlor epoxide	0	0.00000000	1	10	0.03043	0.986	---------	0.00000	--------	------
8.29	gamma-Chlordane	2751	1.3533e-03	1	10	0.03043	0.986	1.6431	0.44474	0.00	------
8.54	alpha-Chlordane	0	0.00000000	1	10	0.03043	0.986	---------	0.00000	--------	------
8.67	Endosulfan I	2215	1.2074e-03	1	10	0.03043	0.986	1.6431	0.39679	0.00	------
8.80	4,4'-DDE	1010	5.5664e-04	1	10	0.03043	0.986	3.2862	0.18293	0.00	------
8.97	Dieldrin	1898	1.0051e-03	1	10	0.03043	0.986	3.2862	0.33029	0.00	------
9.44	Endrin	13405	8.1734e-03	1	10	0.03043	0.986	3.2862	2.68598	0.00	------
9.63	4,4'-DDD	0	0.00000000	1	10	0.03043	0.986	---------	0.00000	--------	------
9.78	Endosulfan II	719	4.4734e-04	1	10	0.03043	0.986	3.2862	0.14701	0.00	------
10.05	4,4'-DDT	3045	1.9120e-03	1	10	0.03043	0.986	3.2862	0.62833	0.00	------
10.25	Endrin aldehyde	2881	2.2518e-03	1	10	0.03043	0.986	3.2862	0.74000	0.00	------
10.67	Endosulfan sulfate	3797	2.6252e-03	1	10	0.03043	0.986	3.2862	0.86272	0.00	------
10.96	Methoxychlor	2401	3.1158e-03	1	10	0.03043	0.986	16.4312	1.02391	0.00	------
11.27	Endrin ketone	1337	7.4255e-04	1	10	0.03043	0.986	3.2862	0.24402	0.00	------
12.55	Decachlorobiphenyl	128415	0.08245705	1	10	0.03043	0.986	3.2862	27.09729	39.43	68.7

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M94

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725016

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 21150619A087,21150619B087

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/23/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.068	JP
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	0.27	JB
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	0.14	JP
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.7	U
72-55-9	4,4'-DDE	0.18	JP
72-20-8	Endrin	0.95	JP
33213-65-9	Endosulfan II	0.20	JP
72-54-8	4,4'-DDD	3.7	U
1031-07-8	Endosulfan sulfate	0.087	JP
50-29-3	4,4'-DDT	0.64	JP
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	0.15	JP
7421-93-4	Endrin aldehyde	0.24	JP
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	0.12	JP
8001-35-2	Toxaphene	190	U

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:01:52
Operator	: sagers	Sample Name	: 1515725016
Sample Number	: 087	Study	: F9M94
AutoSampler	: HP7673A	Rack/Vial	: 0/87
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 20:52:28	Dilution Factor	: 1.00
		Cycle	: 18

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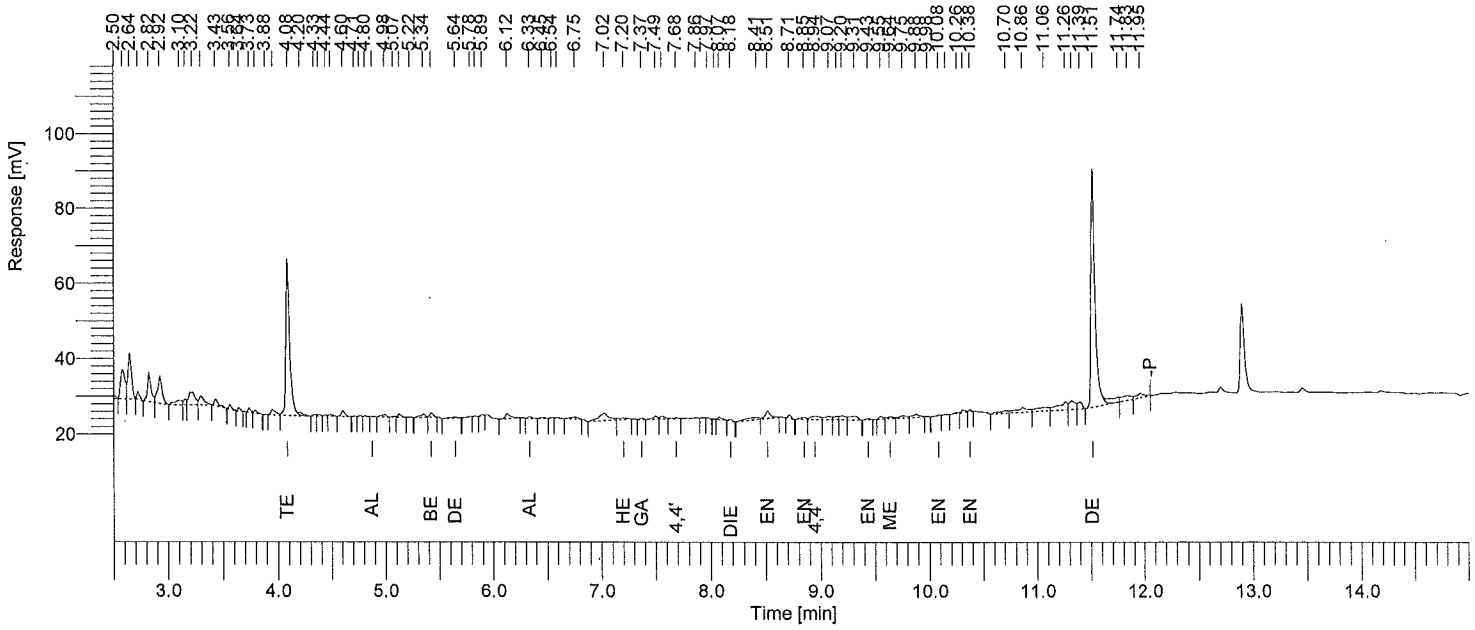
Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_087.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_087.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_soil_sample_a.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619_SOM012_PEST_F9M36_F9M15_A.seq



Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.08	Tetrachloro-m-xylene	101813	0.04388167	1	10	0.03005	0.998	1.6639	14.60289	19.97	73.1
4.87	alpha-BHC	542	1.7957e-04	1	10	0.03005	0.998	1.6639	0.05976	0.00	------
5.29	gamma-BHC	0	0.00000000	1	10	0.03005	0.998	----------	0.00000	--------	------
5.42	beta-BHC	2585	1.7526e-03	1	10	0.03005	0.998	1.6639	0.58324	0.00	------
5.64	delta-BHC	1940	7.1444e-04	1	10	0.03005	0.998	1.6639	0.23775	0.00	------
5.95	Heptachlor	0	0.00000000	1	10	0.03005	0.998	----------	0.00000	--------	------
6.33	Aldrin	976	3.7465e-04	1	10	0.03005	0.998	1.6639	0.12467	0.00	------
7.20	Heptachlor epoxide	2322	9.3557e-04	1	10	0.03005	0.998	1.6639	0.31134	0.00	------
7.37	gamma-Chlordane	835	3.2800e-04	1	10	0.03005	0.998	1.6639	0.10915	0.00	------
7.60	alpha-Chlordane	0	0.00000000	1	10	0.03005	0.998	----------	0.00000	--------	------
7.68	4,4'-DDE	1031	4.7885e-04	1	10	0.03005	0.998	3.3278	0.15935	0.00	------
7.80	Endosulfan I	0	0.00000000	1	10	0.03005	0.998	----------	0.00000	--------	------
8.18	Dieldrin	940	4.0567e-04	1	10	0.03005	0.998	3.3278	0.13500	0.00	------
8.51	Endrin	6651	3.2560e-03	1	10	0.03005	0.998	3.3278	1.08353	0.00	------
8.58	4,4'-DDD	0	0.00000000	1	10	0.03005	0.998	----------	0.00000	--------	------
8.85	Endosulfan II	2373	1.1765e-03	1	10	0.03005	0.998	3.3278	0.39152	0.00	------
8.94	4,4'-DDT	5609	2.7435e-03	1	10	0.03005	0.998	3.3278	0.91299	0.00	------
9.43	Endrin aldehyde	1094	6.3959e-04	1	10	0.03005	0.998	3.3278	0.21284	0.00	------
9.64	Methoxychlor	2262	2.2140e-03	1	10	0.03005	0.998	16.6389	0.73676	0.00	------
10.08	Endosulfan sulfate	424	2.2998e-04	1	10	0.03005	0.998	3.3278	0.07653	0.00	------
10.38	Endrin ketone	939	3.9944e-04	1	10	0.03005	0.998	3.3278	0.13292	0.00	------
11.51	Decachlorobiphenyl	164277	0.08272352	1	10	0.03005	0.998	3.3278	27.52863	39.93	68.9

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:02:48
Operator	: sagers	Sample Name	: 1515725016
Sample Number	: 087	Study	: F9M94
AutoSampler	: HP7673A	Rack/Vial	: 0/87
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/23/2015 21:13:34	Cycle	: 19

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_087.raw
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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_087.rst
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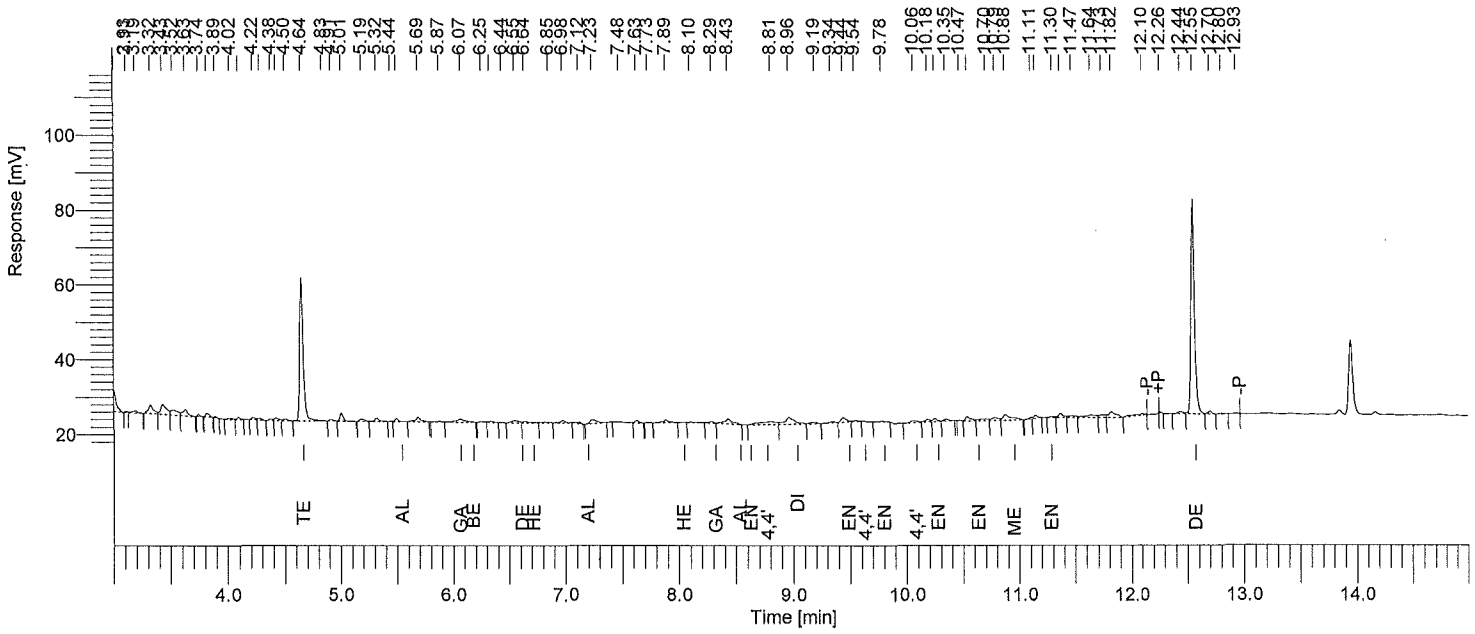

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.64	Tetrachloro-m-xylene	82119	0.04125048	1	10	0.03005	0.998	1.6639	13.72728	19.97	68.8
5.49	alpha-BHC	1677	6.7125e-04	1	10	0.03005	0.998	1.6639	0.22338	0.00	------
6.07	gamma-BHC	4745	2.0770e-03	1	10	0.03005	0.998	1.6639	0.69117	0.00	------
6.18	beta-BHC	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
6.64	delta-BHC	1580	7.2413e-04	1	10	0.03005	0.998	1.6639	0.24097	0.00	------
6.72	Heptachlor	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
7.23	Aldrin	4460	2.1792e-03	1	10	0.03005	0.998	1.6639	0.72519	0.00	------
8.04	Heptachlor epoxide	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
8.29	gamma-Chlordane	1120	5.5091e-04	1	10	0.03005	0.998	1.6639	0.18333	0.00	------
8.54	alpha-Chlordane	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
8.63	Endosulfan I	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
8.81	4,4'-DDE	8324	4.5873e-03	1	10	0.03005	0.998	3.3278	1.52654	0.00	------
9.03	Dieldrin	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
9.44	Endrin	4108	2.5045e-03	1	10	0.03005	0.998	3.3278	0.83345	0.00	------
9.63	4,4'-DDD	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
9.78	Endosulfan II	832	5.1780e-04	1	10	0.03005	0.998	3.3278	0.17231	0.00	------
10.06	4,4'-DDT	2677	1.6811e-03	1	10	0.03005	0.998	3.3278	0.55942	0.00	------
10.25	Endrin aldehyde	2353	1.8389e-03	1	10	0.03005	0.998	3.3278	0.61195	0.00	------
10.70	Endosulfan sulfate	2523	1.7442e-03	1	10	0.03005	0.998	3.3278	0.58042	0.00	------
10.95	Methoxychlor	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
11.30	Endrin ketone	952	5.2875e-04	1	10	0.03005	0.998	3.3278	0.17596	0.00	------
12.55	Decachlorobiphenyl	126733	0.08137714	1	10	0.03005	0.998	3.3278	27.08058	39.93	67.8

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M95

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725017

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 21150619A088,21150619B088

% Moisture: 8.0 Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/23/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.054	JP
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	0.14	JBP
58-89-9	gamma-BHC (Lindane)	0.23	JP
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	0.30	JP
1024-57-3	Heptachlor epoxide	0.33	JP
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	0.17	JP
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	1.1	JP
33213-65-9	Endosulfan II	0.34	JP
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan sulfate	0.47	JP
50-29-3	4,4'-DDT	0.73	JP
72-43-5	Methoxychlor	0.44	JP
53494-70-5	Endrin ketone	0.19	JP
7421-93-4	Endrin aldehyde	0.16	JP
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	0.051	JP
8001-35-2	Toxaphene	180	U

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:01:54
Operator	: sagers	Sample Name	: 1515725017
Sample Number	: 088	Study	: F9M95
AutoSampler	: HP7673A	Rack/Vial	: 0/88
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/23/2015 21:13:34	Cycle	: 19

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_088.raw
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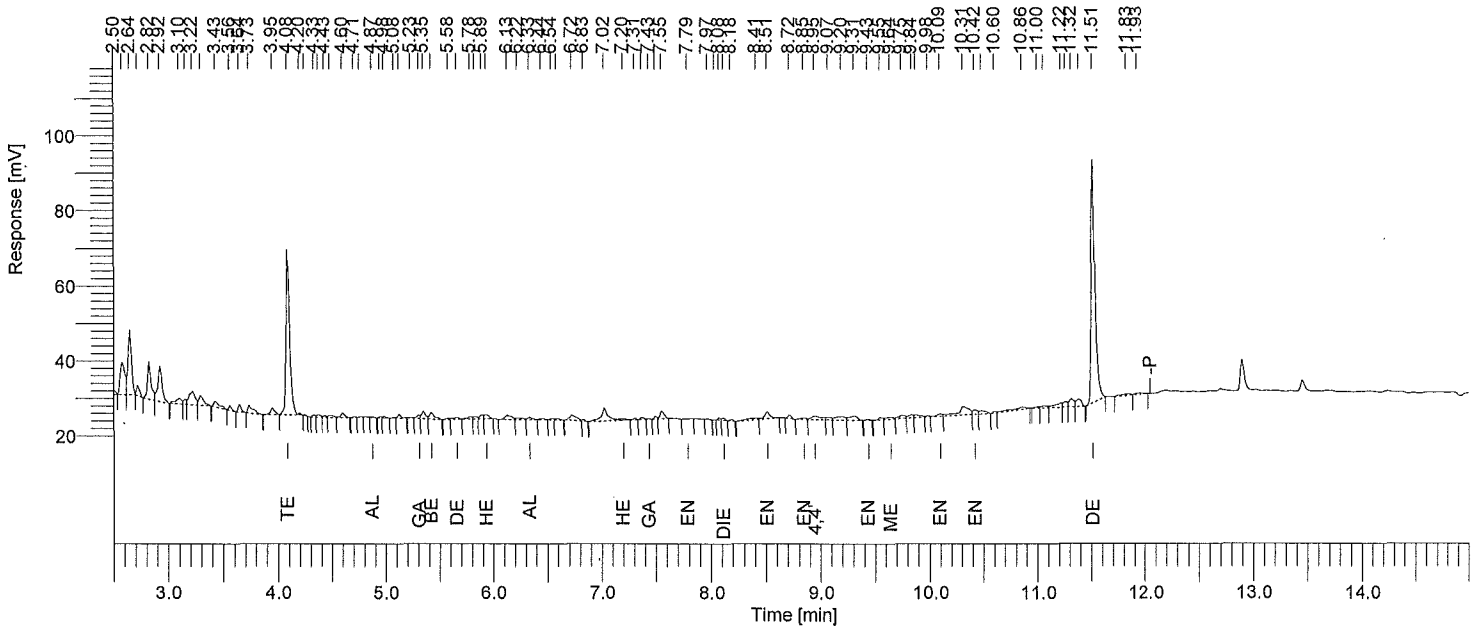


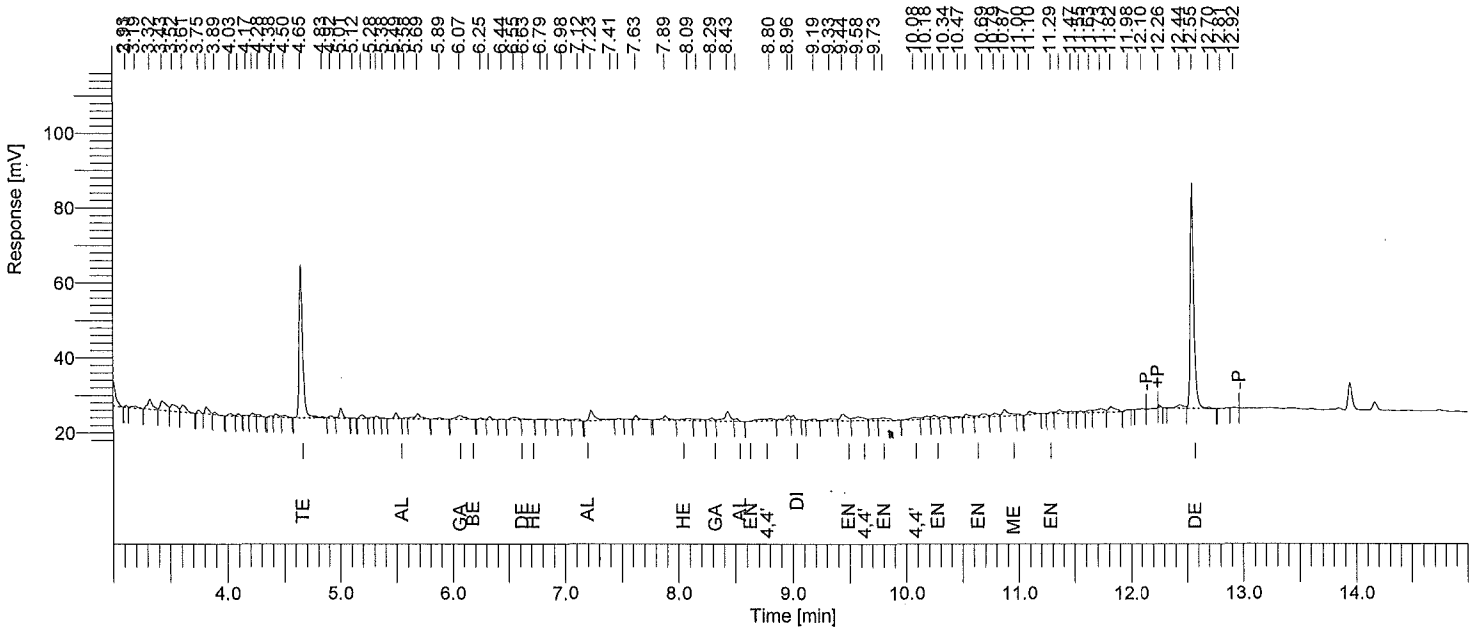
Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.08	Tetrachloro-m-xylene	103936	0.04479667	1	10	0.03018	0.994	1.6567	14.84317	19.88	74.7
4.87	alpha-BHC	456	1.5106e-04	1	10	0.03018	0.994	1.6567	0.05005	0.00	------
5.31	gamma-BHC	1811	6.4792e-04	1	10	0.03018	0.994	1.6567	0.21469	0.00	------
5.42	beta-BHC	5835	3.9564e-03	1	10	0.03018	0.994	1.6567	1.31095	0.00	------
5.66	delta-BHC	2214	8.1529e-04	1	10	0.03018	0.994	1.6567	0.27014	0.00	------
5.93	Heptachlor	3375	1.1409e-03	1	10	0.03018	0.994	1.6567	0.37803	0.00	------
6.33	Aldrin	2139	8.2143e-04	1	10	0.03018	0.994	1.6567	0.27218	0.00	------
7.20	Heptachlor epoxide	2251	9.0704e-04	1	10	0.03018	0.994	1.6567	0.30054	0.00	------
7.43	gamma-Chlordane	357	1.4038e-04	1	10	0.03018	0.994	1.6567	0.04651	0.00	------
7.60	alpha-Chlordane	0	0.00000000	1	10	0.03018	0.994	----------	0.00000	--------	------
7.72	4,4'-DDE	0	0.00000000	1	10	0.03018	0.994	----------	0.00000	--------	------
7.79	Endosulfan I	507	1.9841e-04	1	10	0.03018	0.994	1.6567	0.06574	0.00	------
8.11	Dieldrin	1069	4.6098e-04	1	10	0.03018	0.994	3.3135	0.15274	0.00	------
8.51	Endrin	6398	3.1319e-03	1	10	0.03018	0.994	3.3135	1.03774	0.00	------
8.58	4,4'-DDD	0	0.00000000	1	10	0.03018	0.994	----------	0.00000	--------	------
8.85	Endosulfan II	1878	9.3093e-04	1	10	0.03018	0.994	3.3135	0.30846	0.00	------
8.95	4,4'-DDT	6344	3.1035e-03	1	10	0.03018	0.994	3.3135	1.02834	0.00	------
9.43	Endrin aldehyde	737	4.3102e-04	1	10	0.03018	0.994	3.3135	0.14282	0.00	------
9.64	Methoxychlor	2866	2.8053e-03	1	10	0.03018	0.994	16.5673	0.92953	0.00	------
10.09	Endosulfan sulfate	2389	1.2945e-03	1	10	0.03018	0.994	3.3135	0.42892	0.00	------
10.42	Endrin ketone	3766	1.6015e-03	1	10	0.03018	0.994	3.3135	0.53063	0.00	------
11.51	Decachlorobiphenyl	157138	0.07912860	1	10	0.03018	0.994	3.3135	26.21889	39.76	65.9

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:02:50
Operator	: sagers	Sample Name	: 1515725017
Sample Number	: 088	Study	: F9M95
AutoSampler	: HP7673A	Rack/Vial	: 0/88
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/23/2015 21:34:28	Cycle	: 20

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_088.raw
Result File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_088.rst
Inst Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som_acq_pest from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_088.raw
Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_088.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_088.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_soil_sample_b.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619_SOM012_PEST_F9M36_F9M15_A.seq



Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.65	Tetrachloro-m-xylene	87312	0.04385891	1	10	0.03018	0.994	1.6567	14.53244	19.88	73.1
5.58	alpha-BHC	682	2.7297e-04	1	10	0.03018	0.994	1.6567	0.09045	0.00	------
6.07	gamma-BHC	4978	2.1789e-03	1	10	0.03018	0.994	1.6567	0.72197	0.00	------
6.18	beta-BHC	0	0.00000000	1	10	0.03018	0.994	---------	0.00000	--------	------
6.63	delta-BHC	854	3.9157e-04	1	10	0.03018	0.994	1.6567	0.12974	0.00	------
6.72	Heptachlor	0	0.00000000	1	10	0.03018	0.994	---------	0.00000	--------	------
7.23	Aldrin	8902	4.3496e-03	1	10	0.03018	0.994	1.6567	1.44124	0.00	------
8.09	Heptachlor epoxide	3483	1.7783e-03	1	10	0.03018	0.994	1.6567	0.58922	0.00	------
8.29	gamma-Chlordane	2615	1.2863e-03	1	10	0.03018	0.994	1.6567	0.42621	0.00	------
8.51	alpha-Chlordane	1914	9.3536e-04	1	10	0.03018	0.994	1.6567	0.30993	0.00	------
8.63	Endosulfan I	0	0.00000000	1	10	0.03018	0.994	---------	0.00000	--------	------
8.80	4,4'-DDE	5701	3.1421e-03	1	10	0.03018	0.994	3.3135	1.04111	0.00	------
9.00	Dieldrin	2561	1.3560e-03	1	10	0.03018	0.994	3.3135	0.44929	0.00	------
9.44	Endrin	6993	4.2638e-03	1	10	0.03018	0.994	3.3135	1.41281	0.00	------
9.58	4,4'-DDD	6796	4.5951e-03	1	10	0.03018	0.994	3.3135	1.52257	0.00	------
9.80	Endosulfan II	4973	3.0945e-03	1	10	0.03018	0.994	3.3135	1.02534	0.00	------
10.08	4,4'-DDT	3224	2.0244e-03	1	10	0.03018	0.994	3.3135	0.67076	0.00	------
10.25	Endrin aldehyde	3187	2.4906e-03	1	10	0.03018	0.994	3.3135	0.82525	0.00	------
10.69	Endosulfan sulfate	4270	2.9521e-03	1	10	0.03018	0.994	3.3135	0.97815	0.00	------
11.00	Methoxychlor	934	1.2124e-03	1	10	0.03018	0.994	16.5673	0.40171	0.00	------
11.29	Endrin ketone	939	5.2159e-04	1	10	0.03018	0.994	3.3135	0.17282	0.00	------
12.55	Decachlorobiphenyl	132590	0.08513760	1	10	0.03018	0.994	3.3135	28.20994	39.76	70.9

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M96

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725018

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 21150619A089,21150619B089

% Moisture: 20. Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/23/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.11	JP
319-85-7	beta-BHC	5.1	
319-86-8	delta-BHC	1.5	JBP
58-89-9	gamma-BHC (Lindane)	0.52	J
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	3.1	P
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	0.27	JP
72-55-9	4,4'-DDE	2.2	JP
72-20-8	Endrin	3.4	JP
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	0.71	JP
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	2.4	JP
72-43-5	Methoxychlor	0.29	JP
53494-70-5	Endrin ketone	1.6	JP
7421-93-4	Endrin aldehyde	1.1	JP
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	0.14	JP
8001-35-2	Toxaphene	210	U

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:01:57
Operator	: sagers	Sample Name	: 1515725018
Sample Number	: 089	Study	: F9M96
AutoSampler	: HP7673A	Rack/Vial	: 0/89
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 21:34:28	Dilution Factor	: 1.00
		Cycle	: 20

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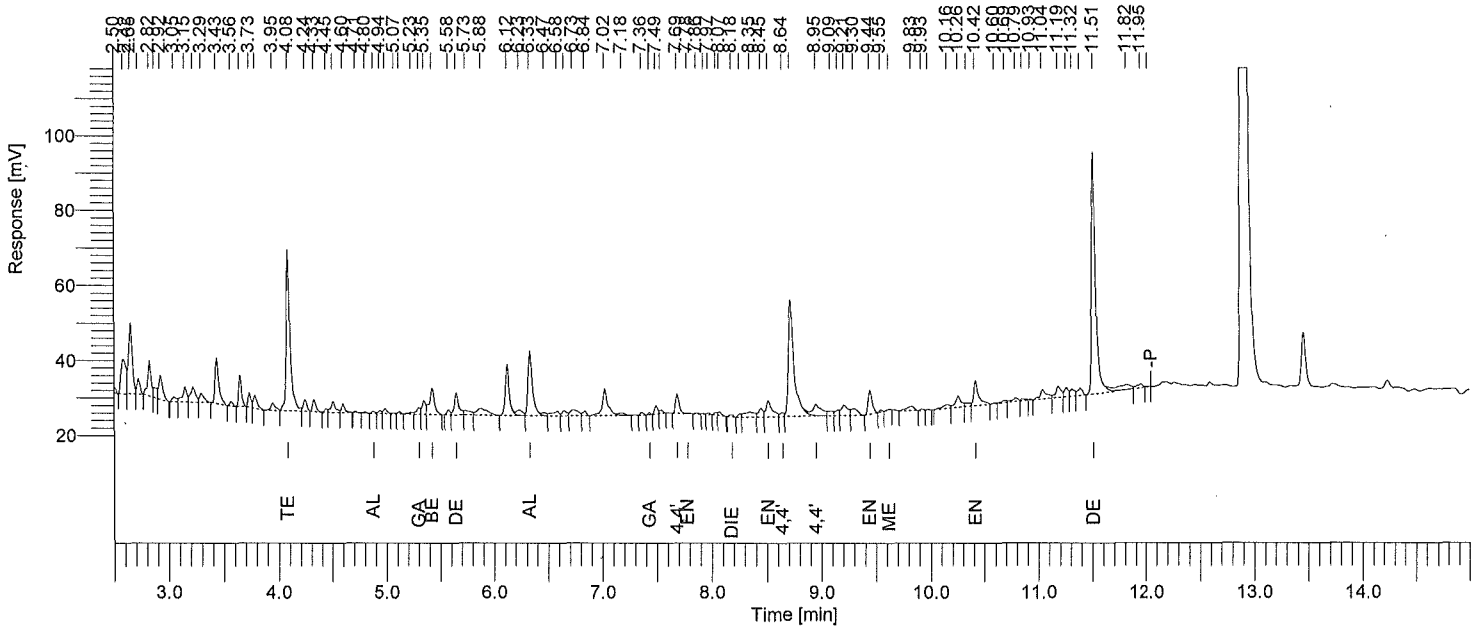
Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_089.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_089.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_soil_sample_a.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619_SOM012_PEST_F9M36_F9M15_A.seq



Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.08	Tetrachloro-m-xylene	107810	0.04646642	1	10	0.03018	0.994	1.6567	15.39643	19.88	77.4
4.88	alpha-BHC	1223	4.0481e-04	1	10	0.03018	0.994	1.6567	0.13413	0.00	------
5.30	gamma-BHC	4236	1.5155e-03	1	10	0.03018	0.994	1.6567	0.50215	0.00	------
5.42	beta-BHC	22748	0.01542329	1	10	0.03018	0.994	1.6567	5.11043	0.00	------
5.65	delta-BHC	16305	6.0042e-03	1	10	0.03018	0.994	1.6567	1.98946	0.00	------
5.95	Heptachlor	0	0.00000000	1	10	0.03018	0.994	----------	0.00000	--------	------
6.33	Aldrin	50922	0.01955165	1	10	0.03018	0.994	1.6567	6.47835	0.00	------
7.24	Heptachlor epoxide	0	0.00000000	1	10	0.03018	0.994	----------	0.00000	--------	------
7.43	gamma-Chlordane	870	3.4168e-04	1	10	0.03018	0.994	1.6567	0.11321	0.00	------
7.60	alpha-Chlordane	0	0.00000000	1	10	0.03018	0.994	----------	0.00000	--------	------
7.69	4,4'-DDE	11669	5.4186e-03	1	10	0.03018	0.994	3.3135	1.79543	0.00	------
7.78	Endosulfan I	487	1.9080e-04	1	10	0.03018	0.994	1.6567	0.06322	0.00	------
8.18	Dieldrin	1505	6.4921e-04	1	10	0.03018	0.994	3.3135	0.21511	0.00	------
8.51	Endrin	16927	8.2868e-03	1	10	0.03018	0.994	3.3135	2.74578	0.00	------
8.64	4,4'-DDD	3194	1.7215e-03	1	10	0.03018	0.994	3.3135	0.57040	0.00	------
8.81	Endosulfan II	0	0.00000000	1	10	0.03018	0.994	----------	0.00000	--------	------
8.95	4,4'-DDT	18037	8.8230e-03	1	10	0.03018	0.994	3.3135	2.92347	0.00	------
9.44	Endrin aldehyde	16620	9.7183e-03	1	10	0.03018	0.994	3.3135	3.22011	0.00	------
9.62	Methoxychlor	720	7.0484e-04	1	10	0.03018	0.994	16.5673	0.23354	0.00	------
10.05	Endosulfan sulfate	0	0.00000000	1	10	0.03018	0.994	----------	0.00000	--------	------
10.42	Endrin ketone	21844	9.2880e-03	1	10	0.03018	0.994	3.3135	3.07754	0.00	------
11.51	Decachlorobiphenyl	164351	0.08276100	1	10	0.03018	0.994	3.3135	27.42246	39.76	69.0

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:02:52
Operator	: sagers	Sample Name	: 1515725018
Sample Number	: 089	Study	: F9M96
AutoSampler	: HP7673A	Rack/Vial	: 0/89
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/23/2015 21:55:22	Cycle	: 21

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_089.raw
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Inst Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som_acq_pest from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_089.raw
Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_089.rst
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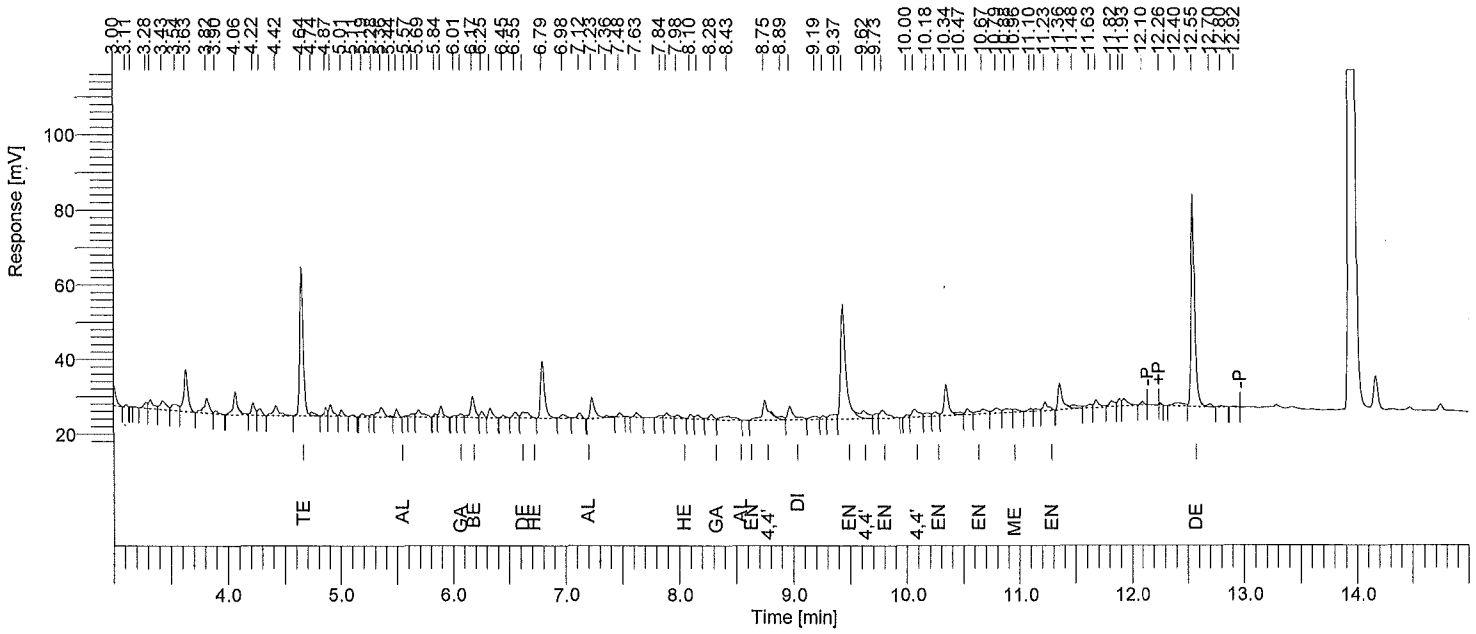
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_soil_sample_b.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619_SOM012_PEST_F9M36_F9M15_A.seq



Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.64	Tetrachloro-m-xylene	85371	0.04288377	1	10	0.03018	0.994	1.6567	14.20934	19.88	71.5
5.57	alpha-BHC	685	2.7418e-04	1	10	0.03018	0.994	1.6567	0.09085	0.00	------
6.07	gamma-BHC	2873	1.2574e-03	1	10	0.03018	0.994	1.6567	0.41664	0.00	------
6.17	beta-BHC	15131	0.01242582	1	10	0.03018	0.994	1.6567	4.11724	0.00	------
6.62	delta-BHC	8175	3.7470e-03	1	10	0.03018	0.994	1.6567	1.24156	0.00	------
6.72	Heptachlor	0	0.00000000	1	10	0.03018	0.994	---------	0.00000	--------	------
7.23	Aldrin	15582	7.6140e-03	1	10	0.03018	0.994	1.6567	2.52285	0.00	------
8.04	Heptachlor epoxide	0	0.00000000	1	10	0.03018	0.994	---------	0.00000	--------	------
8.28	gamma-Chlordane	3960	1.9478e-03	1	10	0.03018	0.994	1.6567	0.64541	0.00	------
8.54	alpha-Chlordane	0	0.00000000	1	10	0.03018	0.994	---------	0.00000	--------	------
8.63	Endosulfan I	0	0.00000000	1	10	0.03018	0.994	---------	0.00000	--------	------
8.75	4,4'-DDE	22789	0.01255927	1	10	0.03018	0.994	3.3135	4.16145	0.00	------
8.97	Dieldrin	13109	6.9419e-03	1	10	0.03018	0.994	3.3135	2.30017	0.00	------
9.43	Endrin	100502	0.06127757	1	10	0.03018	0.994	3.3135	20.30403	0.00	------
9.62	4,4'-DDD	10335	6.9880e-03	1	10	0.03018	0.994	3.3135	2.31544	0.00	------
9.78	Endosulfan II	10671	6.6402e-03	1	10	0.03018	0.994	3.3135	2.20019	0.00	------
10.07	4,4'-DDT	9083	5.7028e-03	1	10	0.03018	0.994	3.3135	1.88961	0.00	------
10.25	Endrin aldehyde	3368	2.6324e-03	1	10	0.03018	0.994	3.3135	0.87222	0.00	------
10.67	Endosulfan sulfate	6943	4.8007e-03	1	10	0.03018	0.994	3.3135	1.59068	0.00	------
10.96	Methoxychlor	2972	3.8575e-03	1	10	0.03018	0.994	16.5673	1.27817	0.00	------
11.23	Endrin ketone	6842	3.7994e-03	1	10	0.03018	0.994	3.3135	1.25891	0.00	------
12.55	Decachlorobiphenyl	127727	0.08201508	1	10	0.03018	0.994	3.3135	27.17531	39.76	68.3

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M97

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725019

Sample wt/vol: 30.4 (g/mL) g Lab File ID: 21150619A090,21150619B090

% Moisture: 20. Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/23/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.066	J
319-85-7	beta-BHC	3.3	
319-86-8	delta-BHC	1.1	JB
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.2	P
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	0.51	JP
72-55-9	4,4'-DDE	0.40	JP
72-20-8	Endrin	0.88	JP
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	0.12	JP
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	0.81	JP
72-43-5	Methoxychlor	2.2	J
53494-70-5	Endrin ketone	0.99	JP
7421-93-4	Endrin aldehyde	0.19	JP
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	0.30	JP
8001-35-2	Toxaphene	210	U

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:01:59
Operator	: sagers	Sample Name	: 1515725019
Sample Number	: 090	Study	: F9M97
AutoSampler	: HP7673A	Rack/Vial	: 0/90
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/23/2015 21:55:22	Cycle	: 21

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_090.raw
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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_090.rst
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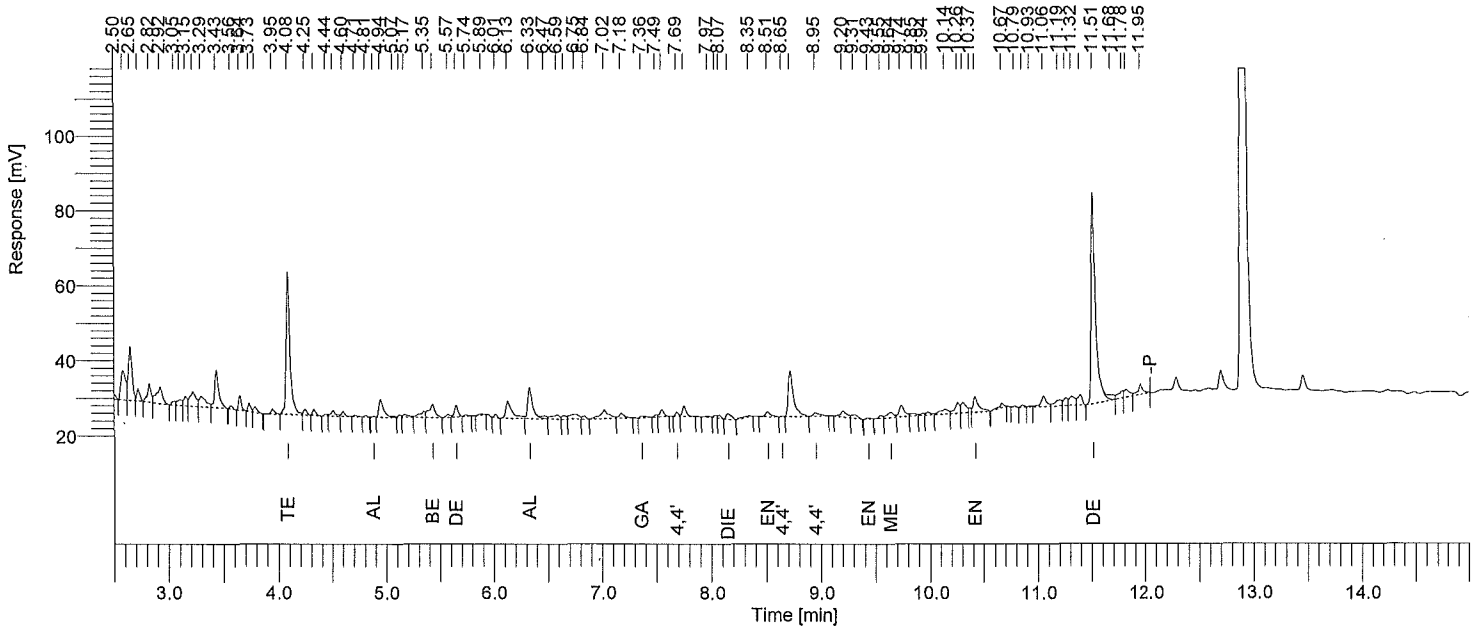

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.08	Tetrachloro-m-xylene	92674	0.03994292	1	10	0.03040	0.987	1.6447	13.13912	19.74	66.6
4.88	alpha-BHC	488	1.6172e-04	1	10	0.03040	0.987	1.6447	0.05320	0.00	------
5.29	gamma-BHC	0	0.00000000	1	10	0.03040	0.987	----------	0.00000	--------	------
5.43	beta-BHC	14224	9.6437e-03	1	10	0.03040	0.987	1.6447	3.17227	0.00	------
5.65	delta-BHC	7165	2.6386e-03	1	10	0.03040	0.987	1.6447	0.86795	0.00	------
5.95	Heptachlor	0	0.00000000	1	10	0.03040	0.987	----------	0.00000	--------	------
6.33	Aldrin	25956	9.9659e-03	1	10	0.03040	0.987	1.6447	3.27826	0.00	------
7.24	Heptachlor epoxide	0	0.00000000	1	10	0.03040	0.987	----------	0.00000	--------	------
7.36	gamma-Chlordane	1876	7.3707e-04	1	10	0.03040	0.987	1.6447	0.24246	0.00	------
7.60	alpha-Chlordane	0	0.00000000	1	10	0.03040	0.987	----------	0.00000	--------	------
7.69	4,4'-DDE	2101	9.7536e-04	1	10	0.03040	0.987	3.2895	0.32084	0.00	------
7.80	Endosulfan I	0	0.00000000	1	10	0.03040	0.987	----------	0.00000	--------	------
8.15	Dieldrin	4825	2.0811e-03	1	10	0.03040	0.987	3.2895	0.68459	0.00	------
8.51	Endrin	4360	2.1344e-03	1	10	0.03040	0.987	3.2895	0.70210	0.00	------
8.65	4,4'-DDD	540	2.9118e-04	1	10	0.03040	0.987	3.2895	0.09578	0.00	------
8.81	Endosulfan II	0	0.00000000	1	10	0.03040	0.987	----------	0.00000	--------	------
8.95	4,4'-DDT	4013	1.9629e-03	1	10	0.03040	0.987	3.2895	0.64569	0.00	------
9.43	Endrin aldehyde	803	4.6958e-04	1	10	0.03040	0.987	3.2895	0.15447	0.00	------
9.64	Methoxychlor	6458	6.3208e-03	1	10	0.03040	0.987	16.4474	2.07920	0.00	------
10.05	Endosulfan sulfate	0	0.00000000	1	10	0.03040	0.987	----------	0.00000	--------	------
10.42	Endrin ketone	14591	6.2040e-03	1	10	0.03040	0.987	3.2895	2.04080	0.00	------
11.51	Decachlorobiphenyl	155063	0.07808377	1	10	0.03040	0.987	3.2895	25.68545	39.47	65.1

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:02:55
Operator	: sagers	Sample Name	: 1515725019
Sample Number	: 090	Study	: F9M97
AutoSampler	: HP7673A	Rack/Vial	: 0/90
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/23/2015 22:16:28	Cycle	: 22

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_090.raw
Result File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_090.rst
Inst Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som_acq_pest from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_090.raw
Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_090.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_090.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_soil_sample_b.rpt
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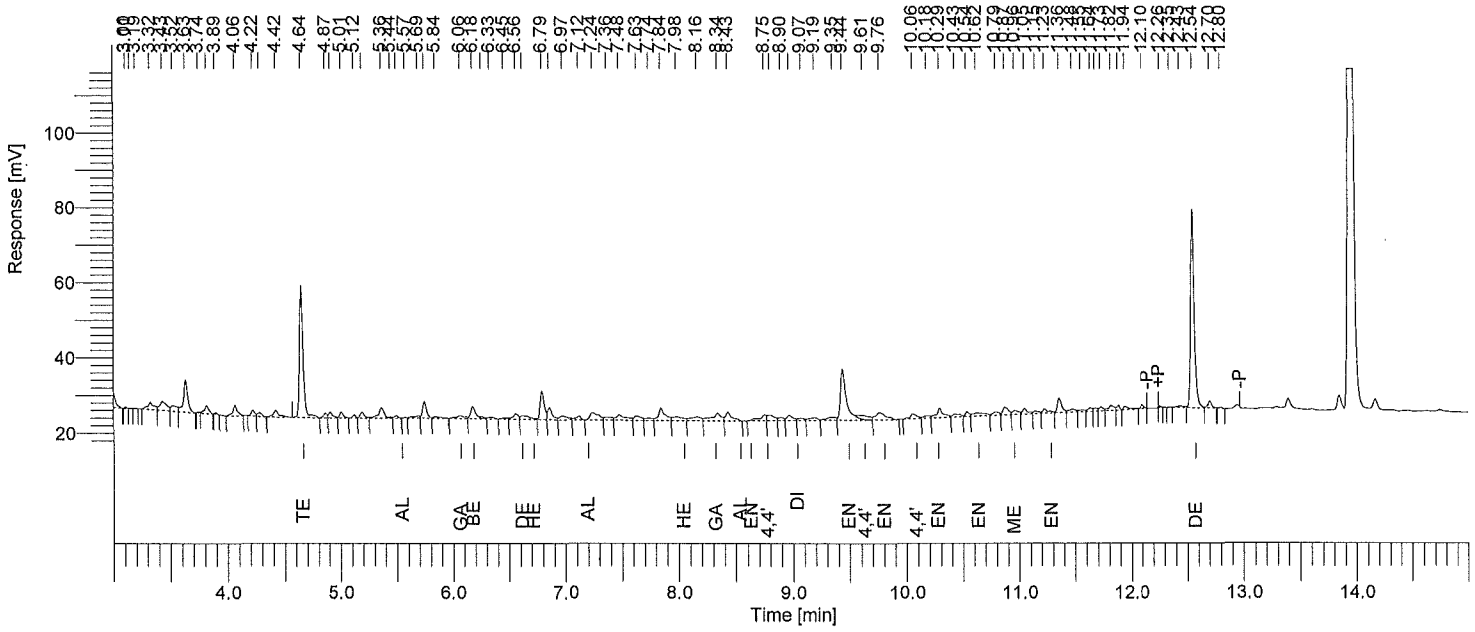

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.64	Tetrachloro-m-xylene	77489	0.03892449	1	10	0.03040	0.987	1.6447	12.80411	19.74	64.9
5.57	alpha-BHC	420	1.6817e-04	1	10	0.03040	0.987	1.6447	0.05532	0.00	------
6.06	gamma-BHC	3791	1.6592e-03	1	10	0.03040	0.987	1.6447	0.54578	0.00	------
6.18	beta-BHC	9912	8.1397e-03	1	10	0.03040	0.987	1.6447	2.67754	0.00	------
6.62	delta-BHC	5901	2.7044e-03	1	10	0.03040	0.987	1.6447	0.88961	0.00	------
6.72	Heptachlor	0	0.00000000	1	10	0.03040	0.987	---------	0.00000	--------	------
7.24	Aldrin	10747	5.2516e-03	1	10	0.03040	0.987	1.6447	1.72748	0.00	------
8.04	Heptachlor epoxide	0	0.00000000	1	10	0.03040	0.987	---------	0.00000	--------	------
8.34	gamma-Chlordane	11370	5.5934e-03	1	10	0.03040	0.987	1.6447	1.83993	0.00	------
8.54	alpha-Chlordane	0	0.00000000	1	10	0.03040	0.987	---------	0.00000	--------	------
8.63	Endosulfan I	0	0.00000000	1	10	0.03040	0.987	---------	0.00000	--------	------
8.75	4,4'-DDE	6752	3.7213e-03	1	10	0.03040	0.987	3.2895	1.22410	0.00	------
9.07	Dieldrin	2354	1.2465e-03	1	10	0.03040	0.987	3.2895	0.41004	0.00	------
9.44	Endrin	49889	0.03041823	1	10	0.03040	0.987	3.2895	10.00600	0.00	------
9.61	4,4'-DDD	7397	5.0011e-03	1	10	0.03040	0.987	3.2895	1.64509	0.00	------
9.76	Endosulfan II	12345	7.6819e-03	1	10	0.03040	0.987	3.2895	2.52694	0.00	------
10.06	4,4'-DDT	5511	3.4605e-03	1	10	0.03040	0.987	3.2895	1.13832	0.00	------
10.29	Endrin aldehyde	10379	8.1115e-03	1	10	0.03040	0.987	3.2895	2.66825	0.00	------
10.62	Endosulfan sulfate	6658	4.6036e-03	1	10	0.03040	0.987	3.2895	1.51435	0.00	------
10.96	Methoxychlor	4211	5.4648e-03	1	10	0.03040	0.987	16.4474	1.79763	0.00	------
11.23	Endrin ketone	4348	2.4144e-03	1	10	0.03040	0.987	3.2895	0.79421	0.00	------
12.54	Decachlorobiphenyl	117650	0.07554457	1	10	0.03040	0.987	3.2895	24.85019	39.47	63.0

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M98

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725020

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 21150619A091,21150619B091

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/23/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.095	JP
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	0.24	JP
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	0.38	JP
72-55-9	4,4'-DDE	0.64	JP
72-20-8	Endrin	3.1	JP
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	0.70	JP
50-29-3	4,4'-DDT	0.93	JP
72-43-5	Methoxychlor	20.	U
53494-70-5	Endrin ketone	0.80	JP
7421-93-4	Endrin aldehyde	1.2	J
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:02:01
Operator	: sagers	Sample Name	: 1515725020
Sample Number	: 091	Study	: F9M98
AutoSampler	: HP7673A	Rack/Vial	: 0/91
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 22:16:28	Dilution Factor	: 1.00
		Cycle	: 22

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Proc Method : \\AIsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a from \\AIsltws012\TCCS\sagers\GCE21\21150619\21150619A_091.rst
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Report Format File: \\AIsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_soil_sample_a.rpt
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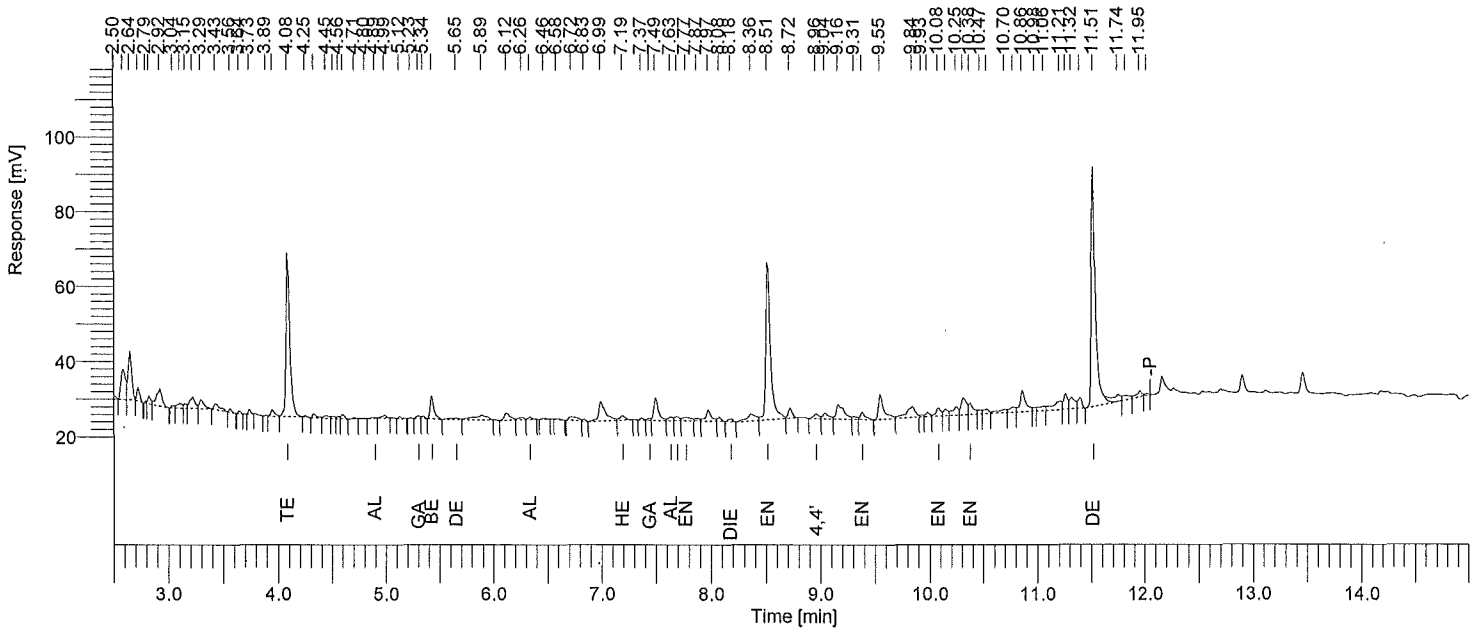

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.08	Tetrachloro-m-xylene	106113	0.04573526	1	10	0.03003	0.999	1.6650	15.22986	19.98	76.2
4.89	alpha-BHC	1031	3.4148e-04	1	10	0.03003	0.999	1.6650	0.11371	0.00	------
5.30	gamma-BHC	1775	6.3492e-04	1	10	0.03003	0.999	1.6650	0.21143	0.00	------
5.42	beta-BHC	14785	0.01002416	1	10	0.03003	0.999	1.6650	3.33805	0.00	------
5.65	delta-BHC	2833	1.0433e-03	1	10	0.03003	0.999	1.6650	0.34742	0.00	------
5.95	Heptachlor	0	0.00000000	1	10	0.03003	0.999	----------	0.00000	--------	------
6.33	Aldrin	1597	6.1332e-04	1	10	0.03003	0.999	1.6650	0.20424	0.00	------
7.19	Heptachlor epoxide	4254	1.7144e-03	1	10	0.03003	0.999	1.6650	0.57091	0.00	------
7.44	gamma-Chlordane	1203	4.7271e-04	1	10	0.03003	0.999	1.6650	0.15741	0.00	------
7.63	alpha-Chlordane	2956	1.1374e-03	1	10	0.03003	0.999	1.6650	0.37875	0.00	------
7.69	4,4'-DDE	3531	1.6396e-03	1	10	0.03003	0.999	3.3300	0.54598	0.00	------
7.77	Endosulfan I	5399	2.1146e-03	1	10	0.03003	0.999	1.6650	0.70417	0.00	------
8.18	Dieldrin	2242	9.6684e-04	1	10	0.03003	0.999	3.3300	0.32196	0.00	------
8.51	Endrin	126342	0.06185037	1	10	0.03003	0.999	3.3300	20.59619	0.00	------
8.58	4,4'-DDD	0	0.00000000	1	10	0.03003	0.999	----------	0.00000	--------	------
8.81	Endosulfan II	0	0.00000000	1	10	0.03003	0.999	----------	0.00000	--------	------
8.96	4,4'-DDT	4861	2.3780e-03	1	10	0.03003	0.999	3.3300	0.79186	0.00	------
9.38	Endrin aldehyde	6391	3.7369e-03	1	10	0.03003	0.999	3.3300	1.24439	0.00	------
9.68	Methoxychlor	0	0.00000000	1	10	0.03003	0.999	----------	0.00000	--------	------
10.08	Endosulfan sulfate	7082	3.8368e-03	1	10	0.03003	0.999	3.3300	1.27767	0.00	------
10.38	Endrin ketone	9840	4.1841e-03	1	10	0.03003	0.999	3.3300	1.39331	0.00	------
11.51	Decachlorobiphenyl	166593	0.08388969	1	10	0.03003	0.999	3.3300	27.93530	39.96	69.9

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:02:57
Operator	: sagers	Sample Name	: 1515725020
Sample Number	: 091	Study	: F9M98
AutoSampler	: HP7673A	Rack/Vial	: 0/91
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/23/2015 22:37:18	Cycle	: 23

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_091.raw
Result File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_091.rst
Inst Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som_acq_pest from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_091.raw
Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_091.rst
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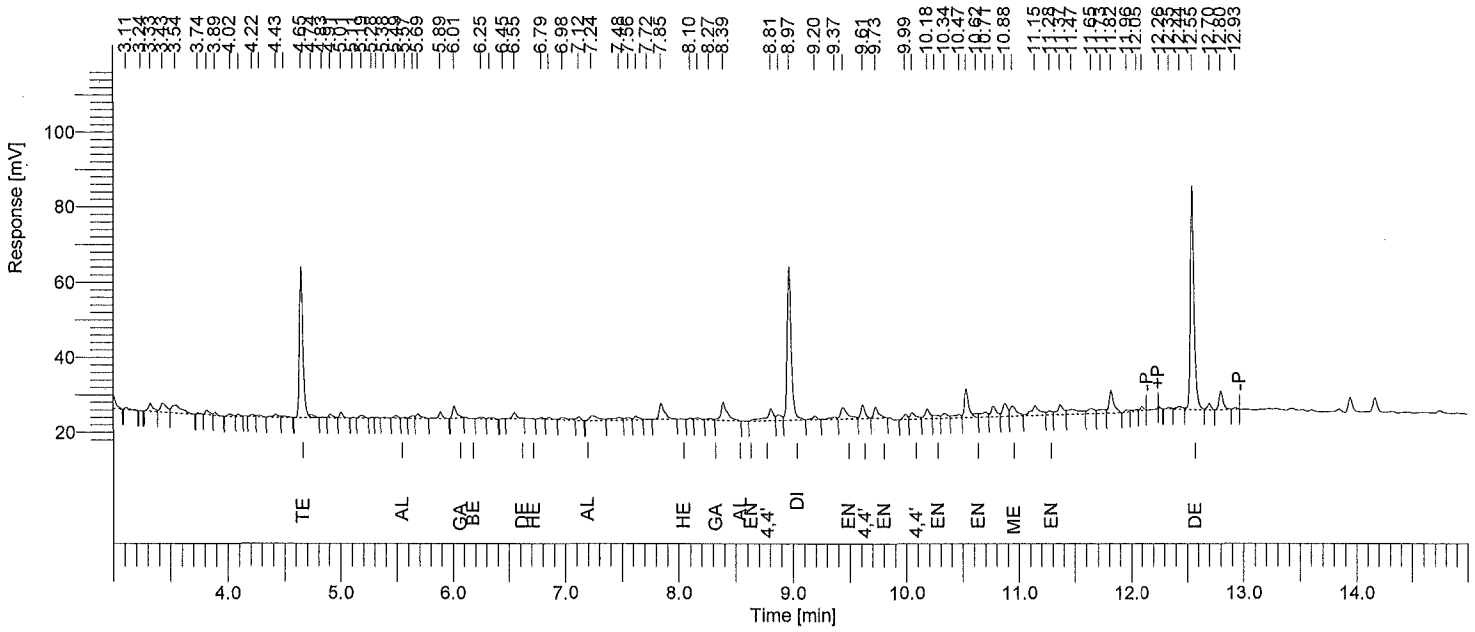

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.65	Tetrachloro-m-xylene	85119	0.04275735	1	10	0.03003	0.999	1.6650	14.23821	19.98	71.3
5.57	alpha-BHC	607	2.4309e-04	1	10	0.03003	0.999	1.6650	0.08095	0.00	------
6.06	gamma-BHC	0	0.00000000	1	10	0.03003	0.999	---------	0.00000	--------	------
6.18	beta-BHC	0	0.00000000	1	10	0.03003	0.999	---------	0.00000	--------	------
6.61	delta-BHC	0	0.00000000	1	10	0.03003	0.999	---------	0.00000	--------	------
6.72	Heptachlor	0	0.00000000	1	10	0.03003	0.999	---------	0.00000	--------	------
7.24	Aldrin	7217	3.5267e-03	1	10	0.03003	0.999	1.6650	1.17440	0.00	------
8.04	Heptachlor epoxide	0	0.00000000	1	10	0.03003	0.999	---------	0.00000	--------	------
8.32	gamma-Chlordane	0	0.00000000	1	10	0.03003	0.999	---------	0.00000	--------	------
8.54	alpha-Chlordane	0	0.00000000	1	10	0.03003	0.999	---------	0.00000	--------	------
8.63	Endosulfan I	0	0.00000000	1	10	0.03003	0.999	---------	0.00000	--------	------
8.81	4,4'-DDE	13366	7.3663e-03	1	10	0.03003	0.999	3.3300	2.45298	0.00	------
8.97	Dieldrin	100992	0.05347993	1	10	0.03003	0.999	3.3300	17.80884	0.00	------
9.44	Endrin	13117	7.9975e-03	1	10	0.03003	0.999	3.3300	2.66317	0.00	------
9.61	4,4'-DDD	9477	6.4080e-03	1	10	0.03003	0.999	3.3300	2.13387	0.00	------
9.80	Endosulfan II	0	0.00000000	1	10	0.03003	0.999	---------	0.00000	--------	------
10.05	4,4'-DDT	6583	4.1334e-03	1	10	0.03003	0.999	3.3300	1.37642	0.00	------
10.25	Endrin aldehyde	3998	3.1245e-03	1	10	0.03003	0.999	3.3300	1.04046	0.00	------
10.62	Endosulfan sulfate	2590	1.7909e-03	1	10	0.03003	0.999	3.3300	0.59638	0.00	------
10.94	Methoxychlor	11173	0.01449999	1	10	0.03003	0.999	16.6500	4.82850	0.00	------
11.28	Endrin ketone	3684	2.0454e-03	1	10	0.03003	0.999	3.3300	0.68113	0.00	------
12.55	Decachlorobiphenyl	135293	0.08687359	1	10	0.03003	0.999	3.3300	28.92893	39.96	72.4

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M99

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725021

Sample wt/vol: 30.4 (g/mL) g Lab File ID: 21150619A092,21150619B092

% Moisture: 11. Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/23/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	0.14	JP
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	0.57	JP
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	0.29	JP
72-55-9	4,4'-DDE	3.7	U
72-20-8	Endrin	0.66	JP
33213-65-9	Endosulfan II	3.7	U
72-54-8	4,4'-DDD	3.7	U
1031-07-8	Endosulfan sulfate	0.18	JP
50-29-3	4,4'-DDT	0.22	JP
72-43-5	Methoxychlor	1.0	JP
53494-70-5	Endrin ketone	0.34	JP
7421-93-4	Endrin aldehyde	0.16	JP
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190	U

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:02:04
Operator	: sagers	Sample Name	: 1515725021
Sample Number	: 092	Study	: F9M99
AutoSampler	: HP7673A	Rack/Vial	: 0/92
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 22:37:18	Dilution Factor	: 1.00
		Cycle	: 23

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_092.raw
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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_092.rst
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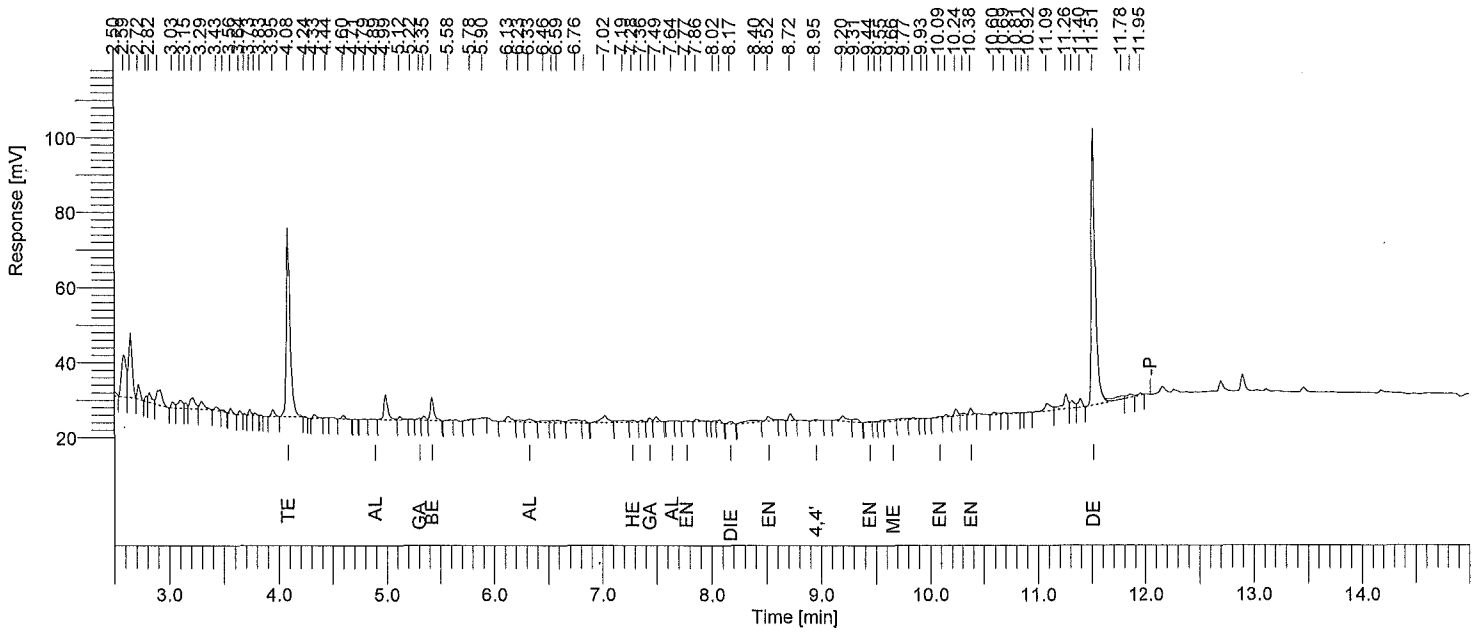

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.08	Tetrachloro-m-xylene	120750	0.05204400	1	10	0.03035	0.988	1.6474	17.14794	19.77	86.7
4.89	alpha-BHC	629	2.0811e-04	1	10	0.03035	0.988	1.6474	0.06857	0.00	------
5.30	gamma-BHC	1066	3.8131e-04	1	10	0.03035	0.988	1.6474	0.12564	0.00	------
5.42	beta-BHC	14221	9.6422e-03	1	10	0.03035	0.988	1.6474	3.17701	0.00	------
5.65	delta-BHC	0	0.00000000	1	10	0.03035	0.988	----------	0.00000	--------	------
5.95	Heptachlor	0	0.00000000	1	10	0.03035	0.988	----------	0.00000	--------	------
6.33	Aldrin	4007	1.5385e-03	1	10	0.03035	0.988	1.6474	0.50691	0.00	------
7.28	Heptachlor epoxide	1751	7.0579e-04	1	10	0.03035	0.988	1.6474	0.23255	0.00	------
7.44	gamma-Chlordane	2122	8.3352e-04	1	10	0.03035	0.988	1.6474	0.27464	0.00	------
7.64	alpha-Chlordane	273	1.0500e-04	1	10	0.03035	0.988	1.6474	0.03459	0.00	------
7.72	4,4'-DDE	0	0.00000000	1	10	0.03035	0.988	----------	0.00000	--------	------
7.77	Endosulfan I	528	2.0676e-04	1	10	0.03035	0.988	1.6474	0.06813	0.00	------
8.17	Dieldrin	1813	7.8222e-04	1	10	0.03035	0.988	3.2949	0.25773	0.00	------
8.52	Endrin	3653	1.7883e-03	1	10	0.03035	0.988	3.2949	0.58922	0.00	------
8.58	4,4'-DDD	0	0.00000000	1	10	0.03035	0.988	----------	0.00000	--------	------
8.81	Endosulfan II	0	0.00000000	1	10	0.03035	0.988	----------	0.00000	--------	------
8.95	4,4'-DDT	1194	5.8420e-04	1	10	0.03035	0.988	3.2949	0.19249	0.00	------
9.44	Endrin aldehyde	740	4.3243e-04	1	10	0.03035	0.988	3.2949	0.14248	0.00	------
9.66	Methoxychlor	2846	2.7853e-03	1	10	0.03035	0.988	16.4745	0.91773	0.00	------
10.09	Endosulfan sulfate	883	4.7831e-04	1	10	0.03035	0.988	3.2949	0.15760	0.00	------
10.38	Endrin ketone	3439	1.4621e-03	1	10	0.03035	0.988	3.2949	0.48176	0.00	------
11.51	Decachlorobiphenyl	184026	0.09266841	1	10	0.03035	0.988	3.2949	30.53325	39.54	77.2

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:02:59
Operator	: sagers	Sample Name	: 1515725021
Sample Number	: 092	Study	: F9M99
AutoSampler	: HP7673A	Rack/Vial	: 0/92
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 22:58:22	Dilution Factor	: 1.00
		Cycle	: 24

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_092.raw
Result File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_092.rst
Inst Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som_acq_pest from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_092.raw
Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_092.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_092.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_soil_sample_b.rpt
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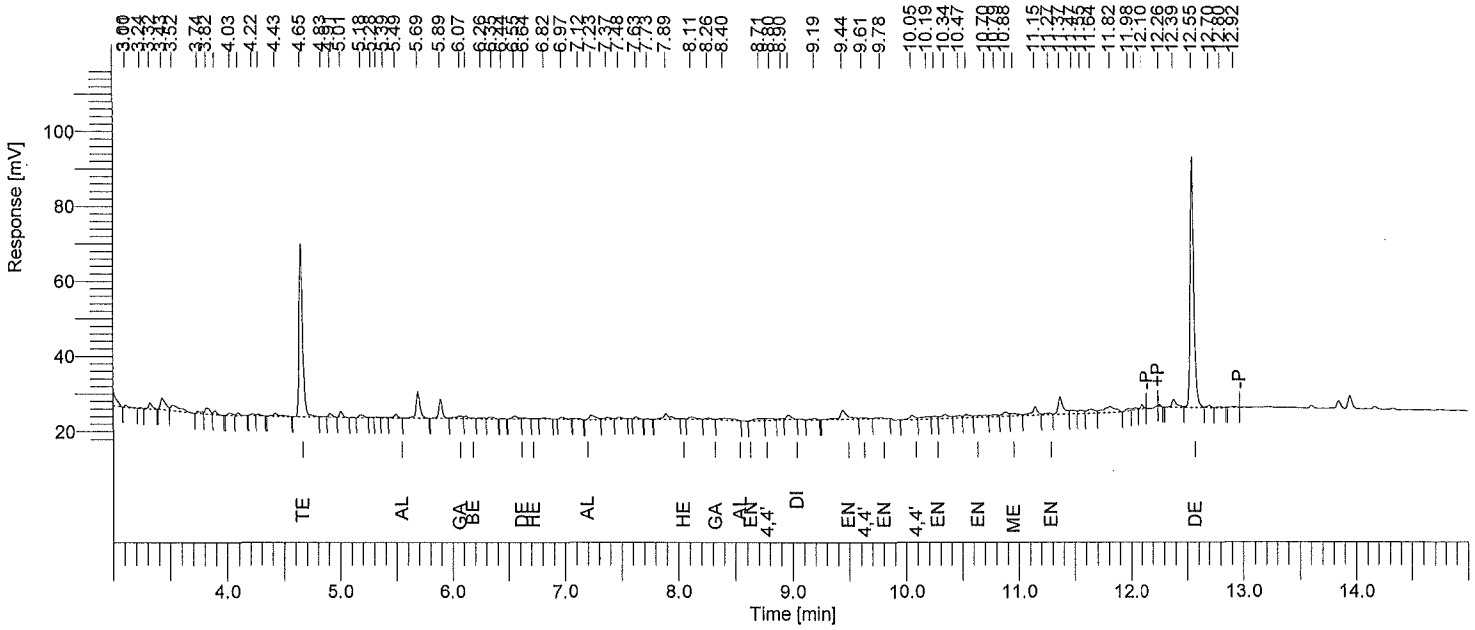

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.65	Tetrachloro-m-xylene	98222	0.04933925	1	10	0.03035	0.988	1.6474	16.25675	19.77	82.2
5.54	alpha-BHC	0	0.00000000	1	10	0.03035	0.988	---------	0.00000	--------	------
6.07	gamma-BHC	3303	1.4456e-03	1	10	0.03035	0.988	1.6474	0.47631	0.00	------
6.18	beta-BHC	0	0.00000000	1	10	0.03035	0.988	---------	0.00000	--------	------
6.64	delta-BHC	757	3.4692e-04	1	10	0.03035	0.988	1.6474	0.11431	0.00	------
6.72	Heptachlor	0	0.00000000	1	10	0.03035	0.988	---------	0.00000	--------	------
7.23	Aldrin	5160	2.5214e-03	1	10	0.03035	0.988	1.6474	0.83078	0.00	------
8.04	Heptachlor epoxide	0	0.00000000	1	10	0.03035	0.988	---------	0.00000	--------	------
8.32	gamma-Chlordane	0	0.00000000	1	10	0.03035	0.988	---------	0.00000	--------	------
8.54	alpha-Chlordane	0	0.00000000	1	10	0.03035	0.988	---------	0.00000	--------	------
8.63	Endosulfan I	0	0.00000000	1	10	0.03035	0.988	---------	0.00000	--------	------
8.80	4,4'-DDE	2765	1.5236e-03	1	10	0.03035	0.988	3.2949	0.50201	0.00	------
8.97	Dieldrin	3695	1.9566e-03	1	10	0.03035	0.988	3.2949	0.64466	0.00	------
9.44	Endrin	12036	7.3388e-03	1	10	0.03035	0.988	3.2949	2.41804	0.00	------
9.61	4,4'-DDD	1816	1.2281e-03	1	10	0.03035	0.988	3.2949	0.40464	0.00	------
9.78	Endosulfan II	1113	6.9277e-04	1	10	0.03035	0.988	3.2949	0.22826	0.00	------
10.05	4,4'-DDT	3958	2.4852e-03	1	10	0.03035	0.988	3.2949	0.81886	0.00	------
10.25	Endrin aldehyde	2152	1.6819e-03	1	10	0.03035	0.988	3.2949	0.55417	0.00	------
10.70	Endosulfan sulfate	3393	2.3458e-03	1	10	0.03035	0.988	3.2949	0.77293	0.00	------
10.95	Methoxychlor	3178	4.1247e-03	1	10	0.03035	0.988	16.4745	1.35905	0.00	------
11.27	Endrin ketone	1678	9.3191e-04	1	10	0.03035	0.988	3.2949	0.30705	0.00	------
12.55	Decachlorobiphenyl	147622	0.09479029	1	10	0.03035	0.988	3.2949	31.23238	39.54	79.0

One surrogate 30-150% for field samples, both for method blank.

6J - FORM VI PEST-1

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: GCE21

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

GC Column: RTXCLP ID: 0.32 (mm) Dates(s) Analyzed: 06/19/2015 06/19/2015

COMPOUND	RT OF STANDARDS					$\overline{RT}$	RT WINDOW*	
	CS1	CS2	CS3	CS4	CS5		FROM	TO
alpha-BHC	4.85	4.85	4.85	4.85	4.85	4.85	4.80	4.90
beta-BHC	5.41	5.41	5.41	5.40	5.40	5.40	5.35	5.45
delta-BHC	5.65	5.65	5.65	5.65	5.65	5.65	5.60	5.70
gamma-BHC (Lindane)	5.29	5.29	5.29	5.29	5.29	5.29	5.24	5.34
Heptachlor	5.95	5.95	5.95	5.95	5.95	5.95	5.90	6.00
Aldrin	6.37	6.37	6.37	6.37	6.37	6.37	6.32	6.42
Heptachlor epoxide	7.24	7.24	7.24	7.24	7.24	7.24	7.17	7.31
Endosulfan I	7.80	7.80	7.80	7.80	7.80	7.80	7.73	7.87
Dieldrin	8.15	8.15	8.15	8.15	8.15	8.15	8.08	8.22
4,4'-DDE	7.71	7.72	7.72	7.71	7.71	7.71	7.64	7.78
Endrin	8.48	8.49	8.49	8.48	8.48	8.48	8.41	8.55
Endosulfan II	8.81	8.81	8.81	8.81	8.81	8.81	8.74	8.88
4,4'-DDD	8.58	8.58	8.58	8.58	8.58	8.58	8.51	8.65
Endosulfan sulfate	10.05	10.05	10.05	10.05	10.05	10.05	9.98	10.12
4,4'-DDT	8.98	8.98	8.98	8.98	8.98	8.98	8.91	9.05
Methoxychlor	9.68	9.68	9.68	9.68	9.68	9.68	9.61	9.75
Endrin ketone	10.42	10.42	10.42	10.42	10.42	10.42	10.35	10.49
Endrin aldehyde	9.42	9.42	9.42	9.42	9.42	9.42	9.35	9.49
alpha-Chlordane	7.60	7.61	7.61	7.60	7.60	7.60	7.53	7.67
gamma-Chlordane	7.41	7.41	7.41	7.41	7.41	7.41	7.34	7.48
Tetrachloro-m-xylene	4.10	4.10	4.10	4.10	4.10	4.10	4.05	4.15
Decachlorobiphenyl	11.54	11.54	11.54	11.54	11.54	11.54	11.44	11.64

(A) Surrogate RTs are measured from Standard Mixture A if two mixtures are used or from Standard Mixture C if one mixture is used.

(B) Surrogate RTs are measured from Standard Mixture B if two mixtures are used. Leave entries blank if Standard Mixture C is used.

* RT windows are ± 0.05 minutes for all compounds that elute before Heptachlor epoxide; ± 0.07 minutes for other compounds (except ± 0.10 minutes for DCB).

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6J - FORM VI PEST-1

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: GCE21

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

GC Column: RTXCLP2 ID: 0.32 (mm) Dates(s) Analyzed: 06/19/2015 06/19/2015

COMPOUND	RT OF STANDARDS					$\overline{RT}$	RT WINDOW*	
	CS1	CS2	CS3	CS4	CS5		FROM	TO
alpha-BHC	5.55	5.55	5.54	5.54	5.54	5.54	5.49	5.59
beta-BHC	6.18	6.18	6.18	6.18	6.18	6.18	6.13	6.23
delta-BHC	6.62	6.62	6.62	6.61	6.61	6.61	6.56	6.66
gamma-BHC (Lindane)	6.07	6.07	6.06	6.06	6.06	6.06	6.01	6.11
Heptachlor	6.72	6.72	6.72	6.72	6.72	6.72	6.67	6.77
Aldrin	7.20	7.20	7.20	7.20	7.20	7.20	7.15	7.25
Heptachlor epoxide	8.05	8.05	8.04	8.04	8.04	8.04	7.97	8.11
Endosulfan I	8.63	8.63	8.63	8.63	8.63	8.63	8.56	8.70
Dieldrin	9.04	9.04	9.03	9.04	9.03	9.04	8.97	9.11
4,4'-DDE	8.77	8.77	8.77	8.77	8.77	8.77	8.70	8.84
Endrin	9.49	9.49	9.49	9.49	9.49	9.49	9.42	9.56
Endosulfan II	9.80	9.80	9.80	9.80	9.80	9.80	9.73	9.87
4,4'-DDD	9.63	9.63	9.63	9.63	9.63	9.63	9.56	9.70
Endosulfan sulfate	10.64	10.64	10.64	10.64	10.64	10.64	10.57	10.71
4,4'-DDT	10.09	10.09	10.09	10.09	10.08	10.09	10.02	10.16
Methoxychlor	10.95	10.95	10.95	10.95	10.95	10.95	10.88	11.02
Endrin ketone	11.29	11.29	11.29	11.29	11.28	11.29	11.22	11.36
Endrin aldehyde	10.28	10.28	10.27	10.28	10.27	10.28	10.21	10.35
alpha-Chlordane	8.54	8.54	8.54	8.54	8.54	8.54	8.47	8.61
gamma-Chlordane	8.32	8.32	8.32	8.32	8.32	8.32	8.25	8.39
Tetrachloro-m-xylene	4.66	4.66	4.66	4.66	4.66	4.66	4.61	4.71
Decachlorobiphenyl	12.57	12.57	12.57	12.57	12.57	12.57	12.47	12.67

(A) Surrogate RTs are measured from Standard Mixture A if two mixtures are used or from Standard Mixture C if one mixture is used.

(B) Surrogate RTs are measured from Standard Mixture B if two mixtures are used. Leave entries blank if Standard Mixture C is used.

* RT windows are ± 0.05 minutes for all compounds that elute before Heptachlor epoxide; ± 0.07 minutes for other compounds (except ± 0.10 minutes for DCB).

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6K - FORM VI PEST-2

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: GCE21

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

GC Column: RTXCLP ID: 0.32 (mm) Dates(s) Analyzed: 06/19/2015 06/19/2015

COMPOUND	CALIBRATION FACTORS (CFs)					% RSD
	CS1	CS2	CS3	CS4	CS5	
alpha-BHC	1490000	1380000	1530000	1660000	1480000	6.7
beta-BHC	817000	707000	716000	775000	671000	7.9
delta-BHC	1350000	1260000	1360000	1480000	1330000	5.9
gamma-BHC (Lindane)	1450000	1320000	1400000	1490000	1330000	5.5
Heptachlor	1630000	1450000	1490000	1520000	1310000	7.6
Aldrin	1370000	1220000	1310000	1380000	1230000	5.8
Heptachlor epoxide	1360000	1210000	1250000	1280000	1110000	7.3
Endosulfan I	1380000	1230000	1280000	1320000	1170000	6.2
Dieldrin	1240000	1120000	1170000	1200000	1050000	6.3
4,4'-DDE	1130000	1020000	1080000	1140000	1010000	5.5
Endrin	1120000	983000	1010000	1070000	924000	7.3
Endosulfan II	1120000	982000	1010000	1030000	903000	7.9
4,4'-DDD	969000	877000	928000	982000	883000	5.2
Endosulfan sulfate	1030000	899000	917000	944000	830000	7.7
4,4'-DDT	1100000	995000	1010000	1060000	941000	6.1
Methoxychlor	588000	507000	506000	507000	446000	9.9
Endrin ketone	1330000	1160000	1170000	1180000	1040000	8.7
Endrin aldehyde	977000	844000	856000	855000	743000	9.7
alpha-Chlordane	1440000	1270000	1300000	1330000	1160000	7.8
gamma-Chlordane	1390000	1230000	1270000	1320000	1160000	6.8
Tetrachloro-m-xylene	1310000	1110000	1140000	1200000	1040000	8.8
Decachlorobiphenyl	1230000	1020000	973000	948000	800000	15.6

(A) Surrogate CFs and %RSD are measured from Standard Mixture A if two mixtures are used or from Standard Mixture C if one mixture is used.

(B) Surrogate CFs and %RSD are measured from Standard Mixture B if two mixtures are used. Leave entries blank if Standard Mixture C is used.

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6K - FORM VI PEST-2

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: GCE21

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

GC Column: RTXCLP2 ID: 0.32 (mm) Dates(s) Analyzed: 06/19/2015 06/19/2015

COMPOUND	CALIBRATION FACTORS (CFs)					% RSD
	CS1	CS2	CS3	CS4	CS5	
alpha-BHC	1290000	1190000	1260000	1330000	1180000	5.2
beta-BHC	721000	612000	601000	605000	505000	12.6
delta-BHC	1120000	1030000	1100000	1160000	1030000	5.2
gamma-BHC (Lindane)	1220000	1100000	1150000	1200000	1050000	6.1
Heptachlor	1270000	1120000	1160000	1200000	1050000	7.1
Aldrin	1060000	970000	1030000	1090000	970000	5.2
Heptachlor epoxide	1060000	945000	980000	1010000	898000	6.4
Endosulfan I	993000	880000	913000	955000	847000	6.3
Dieldrin	1020000	907000	943000	983000	872000	6.1
4,4'-DDE	975000	872000	907000	943000	839000	6.0
Endrin	894000	784000	803000	861000	759000	6.8
Endosulfan II	881000	772000	796000	832000	738000	6.9
4,4'-DDD	796000	712000	737000	768000	684000	6.0
Endosulfan sulfate	794000	702000	714000	746000	660000	6.9
4,4'-DDT	864000	766000	791000	822000	739000	6.1
Methoxychlor	443000	374000	373000	387000	349000	9.1
Endrin ketone	1020000	879000	886000	910000	803000	8.9
Endrin aldehyde	730000	632000	637000	638000	562000	9.3
alpha-Chlordane	1140000	999000	1020000	1040000	913000	8.1
gamma-Chlordane	1100000	978000	1010000	1060000	934000	6.5
Tetrachloro-m-xylene	1180000	1000000	982000	983000	832000	12.3
Decachlorobiphenyl	961000	784000	757000	748000	644000	14.8

(A) Surrogate CFs and %RSD are measured from Standard Mixture A if two mixtures are used or from Standard Mixture C if one mixture is used.

(B) Surrogate CFs and %RSD are measured from Standard Mixture B if two mixtures are used. Leave entries blank if Standard Mixture C is used.

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6L - FORM VI PEST-3
TOXAPHENE INITIAL CALIBRATION

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID (1): GCE21 Date(s) Analyzed (1): 06/19/2015 06/19/2015

GC Column (1): RTXCLP ID: 0.32 (mm)

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

COMPOUND	PEAK[1]	RT OF STANDARDS					$\overline{RT}$	RT WINDOW	
		CS1	CS2	CS3	CS4	CS5		FROM	TO
Toxaphene	1	8.80	8.79	8.80	8.80	8.80	8.80	8.73	8.87
	2	9.47	9.47	9.47	9.47	9.47	9.47	9.40	9.54
	3	9.78	9.78	9.78	9.78	9.78	9.78	9.71	9.85
	4	9.91	9.91	9.91	9.91	9.91	9.91	9.84	9.98
	5	10.39	10.39	10.39	10.39	10.39	10.39	10.32	10.46

Instrument ID (2): GCE21 Date(s) Analyzed (2): 06/19/2015 06/19/2015

GC Column (2): RTXCLP2 ID: 0.32 (mm)

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

COMPOUND	PEAK[1]	RT OF STANDARDS					$\overline{RT}$	RT WINDOW	
		CS1	CS2	CS3	CS4	CS5		FROM	TO
Toxaphene	1	9.01	9.01	9.01	9.01	9.01	9.01	8.94	9.08
	2	9.78	9.78	9.78	9.78	9.78	9.78	9.71	9.85
	3	9.92	9.92	9.92	9.92	9.92	9.92	9.85	9.99
	4	10.28	10.28	10.28	10.28	10.28	10.28	10.21	10.35
	5	10.94	10.94	10.94	10.94	10.94	10.94	10.87	11.01

[1]At least three peaks for each column are required for identification of Toxaphene.

6M - FORM VI PEST-4
TOXAPHENE INITIAL CALIBRATION

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID (1): GCE21 Date(s) Analyzed (1): 06/19/2015 06/19/2015

GC Column (1): RTXCLP ID: 0.32 (mm)

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

COMPOUND	PEAK[1]	CALIBRATION FACTORS (CFs) STANDARDS					%RSD
		CS1	CS2	CS3	CS4	CS5	
Toxaphene	1	50700	51500	50600	47600	43700	6.6
	2	27000	29300	29600	28700	26700	4.7
	3	37400	39800	40300	38900	36600	4.1
	4	45300	46300	45400	43300	40200	5.6
	5	23700	26600	28000	27800	27100	6.6

Instrument ID (2): GCE21 Date(s) Analyzed (2): 06/19/2015 06/19/2015

GC Column (2): RTXCLP2 ID: 0.32 (mm)

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

COMPOUND	PEAK[1]	CALIBRATION FACTORS (CFs) STANDARDS					%RSD
		CS1	CS2	CS3	CS4	CS5	
Toxaphene	1	19800	19900	19600	18100	16400	8.0
	2	23600	23800	23200	21500	19700	7.7
	3	52400	52300	51300	47700	43900	7.4
	4	33900	34200	33700	31500	29100	6.6
	5	35000	34700	34100	31800	29600	6.9

[1]At least three peaks for each column are required for identification of Toxaphene.

6R - FORM VI PEST-5

PESTICIDE RESOLUTION CHECK SUMMARY

COLUMN 1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column (1): RTXCLP ID: 0.32 (mm) Instrument ID (1): GCE21

EPA Sample No. (RESC##): RESC11 Lab Sample ID (1): RESC11

Date Analyzed (1): 06/19/2015 Time Analyzed (1): 19:17

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.10	100.0
02	alpha-BHC	4.85	100.0
03	gamma-BHC (Lindane)	5.29	100.0
04	beta-BHC	5.40	100.0
05	delta-BHC	5.65	100.0
06	Heptachlor	5.94	100.0
07	Aldrin	6.37	100.0
08	Heptachlor epoxide	7.24	100.0
09	gamma-Chlordane	7.41	100.0
10	alpha-Chlordane	7.60	100.0
11	4,4'-DDE	7.71	100.0
12	Endosulfan I	7.80	100.0
13	Dieldrin	8.15	100.0
14	Endrin	8.48	100.0
15	4,4'-DDD	8.57	100.0
16	Endosulfan II	8.81	100.0
17	4,4'-DDT	8.98	100.0
18	Endrin aldehyde	9.42	100.0
19	Methoxychlor	9.68	100.0
20	Endosulfan sulfate	10.05	100.0
21	Endrin ketone	10.42	100.0
22	Decachlorobiphenyl	11.53	

6T - FORM VI PEST-5

PESTICIDE RESOLUTION CHECK SUMMARY

COLUMN 2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column (2): RTXCLP2 ID: 0.32 (mm) Instrument ID (2): GCE21

EPA Sample No. (RESC##): RESC12 Lab Sample ID (2): RESC12

Date Analyzed (2): 06/19/2015 Time Analyzed (2): 19:38

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.66	100.0
02	alpha-BHC	5.55	100.0
03	gamma-BHC (Lindane)	6.07	100.0
04	beta-BHC	6.18	100.0
05	delta-BHC	6.62	100.0
06	Heptachlor	6.72	100.0
07	Aldrin	7.20	100.0
08	Heptachlor epoxide	8.04	100.0
09	gamma-Chlordane	8.32	100.0
10	alpha-Chlordane	8.54	100.0
11	Endosulfan I	8.63	100.0
12	4,4'-DDE	8.77	100.0
13	Dieldrin	9.04	100.0
14	Endrin	9.49	100.0
15	4,4'-DDD	9.63	100.0
16	Endosulfan II	9.80	100.0
17	4,4'-DDT	10.09	100.0
18	Endrin aldehyde	10.28	100.0
19	Endosulfan sulfate	10.64	100.0
20	Methoxychlor	10.95	100.0
21	Endrin ketone	11.29	100.0
22	Decachlorobiphenyl	12.57	

6U - FORM VI PEST-6

PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column (1): RTXCLP ID: 0.32 (mm) Instrument ID (1): GCE21

EPA Sample No. (PEM##): PEM11 Lab Sample ID (1): PEM11

Date Analyzed (1): 06/19/2015 Time Analyzed (1): 19:38

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.10	100.0
02	alpha-BHC	4.85	100.0
03	gamma-BHC (Lindane)	5.29	100.0
04	beta-BHC	5.41	100.0
05	Endrin	8.48	100.0
06	4,4'-DDT	8.98	100.0
07	Methoxychlor	9.68	100.0
08	Decachlorobiphenyl	11.54	

GC Column (2): RTXCLP2 ID: 0.32 (mm) Instrument ID (2): GCE21

EPA Sample No. (PEM##): PEM12 Lab Sample ID (2): PEM12

Date Analyzed (2): 06/19/2015 Time Analyzed (2): 19:59

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.66	100.0
02	alpha-BHC	5.55	100.0
03	gamma-BHC (Lindane)	6.07	100.0
04	beta-BHC	6.18	100.0
05	Endrin	9.49	100.0
06	4,4'-DDT	10.09	100.0
07	Methoxychlor	10.95	100.0
08	Decachlorobiphenyl	12.57	

6U - FORM VI PEST-6

PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column (1): RTXCLP ID: 0.32 (mm) Instrument ID (1): GCE21

EPA Sample No. (PEM##): PEM21 Lab Sample ID (1): PEM21

Date Analyzed (1): 06/19/2015 Time Analyzed (1): 23:49

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.10	100.0
02	alpha-BHC	4.85	100.0
03	gamma-BHC (Lindane)	5.29	100.0
04	beta-BHC	5.40	100.0
05	Endrin	8.48	100.0
06	4,4'-DDT	8.98	100.0
07	Methoxychlor	9.68	100.0
08	Decachlorobiphenyl	11.54	

GC Column (2): RTXCLP2 ID: 0.32 (mm) Instrument ID (2): GCE21

EPA Sample No. (PEM##): PEM22 Lab Sample ID (2): PEM22

Date Analyzed (2): 06/20/2015 Time Analyzed (2): 00:10

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.66	100.0
02	alpha-BHC	5.54	100.0
03	gamma-BHC (Lindane)	6.07	100.0
04	beta-BHC	6.18	100.0
05	Endrin	9.49	100.0
06	4,4'-DDT	10.08	100.0
07	Methoxychlor	10.95	100.0
08	Decachlorobiphenyl	12.57	

6U - FORM VI PEST-6

PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column (1): RTXCLP ID: 0.32 (mm) Instrument ID (1): GCE21

EPA Sample No. (PEM##): PEM71 Lab Sample ID (1): PEM71

Date Analyzed (1): 06/23/2015 Time Analyzed (1): 14:34

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.09	100.0
02	alpha-BHC	4.83	100.0
03	gamma-BHC (Lindane)	5.27	100.0
04	beta-BHC	5.39	100.0
05	Endrin	8.46	100.0
06	4,4'-DDT	8.96	100.0
07	Methoxychlor	9.66	100.0
08	Decachlorobiphenyl	11.52	

GC Column (2): RTXCLP2 ID: 0.32 (mm) Instrument ID (2): GCE21

EPA Sample No. (PEM##): PEM72 Lab Sample ID (2): PEM72

Date Analyzed (2): 06/23/2015 Time Analyzed (2): 14:55

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.65	100.0
02	alpha-BHC	5.53	100.0
03	gamma-BHC (Lindane)	6.05	100.0
04	beta-BHC	6.16	100.0
05	Endrin	9.47	100.0
06	4,4'-DDT	10.06	100.0
07	Methoxychlor	10.93	100.0
08	Decachlorobiphenyl	12.55	

6X - FORM VI PEST-9
INDIVIDUAL STANDARD MIXTURE C

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column (1): RTXCLP ID: 0.32 (mm) Instrument ID (1): GCE21

EPA Sample No. (INDC3##): INDC311 Lab Sample ID (1): INDC311

Date Analyzed (1): 06/19/2015 Time Analyzed (1): 22:26

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.10	100.0
02	alpha-BHC	4.85	100.0
03	gamma-BHC (Lindane)	5.29	100.0
04	beta-BHC	5.41	100.0
05	delta-BHC	5.65	100.0
06	Heptachlor	5.95	100.0
07	Aldrin	6.37	100.0
08	Heptachlor epoxide	7.24	100.0
09	gamma-Chlordane	7.41	100.0
10	alpha-Chlordane	7.61	100.0
11	4,4'-DDE	7.72	100.0
12	Endosulfan I	7.80	100.0
13	Dieldrin	8.15	100.0
14	Endrin	8.49	100.0
15	4,4'-DDD	8.58	100.0
16	Endosulfan II	8.81	100.0
17	4,4'-DDT	8.98	100.0
18	Endrin aldehyde	9.42	100.0
19	Methoxychlor	9.68	100.0
20	Endosulfan sulfate	10.05	100.0
21	Endrin ketone	10.42	100.0
22	Decachlorobiphenyl	11.54	

6X - FORM VI PEST-9
INDIVIDUAL STANDARD MIXTURE C

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column (1): RTXCLP ID: 0.32 (mm) Instrument ID (1): GCE21

EPA Sample No. (INDC3##): INDC381 Lab Sample ID (1): INDC381

Date Analyzed (1): 06/23/2015 Time Analyzed (1): 23:40

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.09	100.0
02	alpha-BHC	4.83	100.0
03	gamma-BHC (Lindane)	5.26	100.0
04	beta-BHC	5.38	100.0
05	delta-BHC	5.63	100.0
06	Heptachlor	5.92	100.0
07	Aldrin	6.35	100.0
08	Heptachlor epoxide	7.21	100.0
09	gamma-Chlordane	7.39	100.0
10	alpha-Chlordane	7.58	100.0
11	4,4'-DDE	7.69	100.0
12	Endosulfan I	7.77	100.0
13	Dieldrin	8.12	100.0
14	Endrin	8.46	100.0
15	4,4'-DDD	8.55	100.0
16	Endosulfan II	8.78	100.0
17	4,4'-DDT	8.95	100.0
18	Endrin aldehyde	9.39	100.0
19	Methoxychlor	9.65	100.0
20	Endosulfan sulfate	10.02	100.0
21	Endrin ketone	10.39	100.0
22	Decachlorobiphenyl	11.51	

6Y - FORM VI PEST-10
INDIVIDUAL STANDARD MIXTURE C

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column (2): RTXCLP2 ID: 0.32 (mm) Instrument ID (2): GCE21

EPA Sample No. (INDC3##): INDC382 Lab Sample ID (2): INDC382

Date Analyzed (2): 06/24/2015 Time Analyzed (2): 00:00

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.65	100.0
02	alpha-BHC	5.53	100.0
03	gamma-BHC (Lindane)	6.05	100.0
04	beta-BHC	6.16	100.0
05	delta-BHC	6.59	100.0
06	Heptachlor	6.70	100.0
07	Aldrin	7.18	100.0
08	Heptachlor epoxide	8.02	100.0
09	gamma-Chlordane	8.30	100.0
10	alpha-Chlordane	8.51	100.0
11	Endosulfan I	8.60	100.0
12	4,4'-DDE	8.75	100.0
13	Dieldrin	9.01	100.0
14	Endrin	9.46	100.0
15	4,4'-DDD	9.60	100.0
16	Endosulfan II	9.77	100.0
17	4,4'-DDT	10.06	100.0
18	Endrin aldehyde	10.25	100.0
19	Endosulfan sulfate	10.61	100.0
20	Methoxychlor	10.93	100.0
21	Endrin ketone	11.26	100.0
22	Decachlorobiphenyl	12.55	

6Y - FORM VI PEST-10
INDIVIDUAL STANDARD MIXTURE C

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column (2): RTXCLP2 ID: 0.32 (mm) Instrument ID (2): GCE21

EPA Sample No. (INDC3##): INDC312 Lab Sample ID (2): INDC312

Date Analyzed (2): 06/19/2015 Time Analyzed (2): 22:47

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.66	100.0
02	alpha-BHC	5.54	100.0
03	gamma-BHC (Lindane)	6.06	100.0
04	beta-BHC	6.18	100.0
05	delta-BHC	6.62	100.0
06	Heptachlor	6.72	100.0
07	Aldrin	7.20	100.0
08	Heptachlor epoxide	8.04	100.0
09	gamma-Chlordane	8.32	100.0
10	alpha-Chlordane	8.54	100.0
11	Endosulfan I	8.63	100.0
12	4,4'-DDE	8.77	100.0
13	Dieldrin	9.03	100.0
14	Endrin	9.49	100.0
15	4,4'-DDD	9.63	100.0
16	Endosulfan II	9.80	100.0
17	4,4'-DDT	10.09	100.0
18	Endrin aldehyde	10.27	100.0
19	Endosulfan sulfate	10.64	100.0
20	Methoxychlor	10.95	100.0
21	Endrin ketone	11.29	100.0
22	Decachlorobiphenyl	12.57	

7J - FORM VII PEST-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/19/2015 06/19/2015

EPA Sample No. (PIBLK##): Date Analyzed:

Lab Sample ID (PIBLK): Time Analyzed:

EPA Sample No. (PEM##): PEM11 Date Analyzed: 06/19/2015

Lab Sample ID (PEM): PEM11 Time Analyzed: 19:38

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	4.85	4.80	4.90	0.019	0.020	-3.4
beta-BHC	5.41	5.35	5.45	0.020	0.020	1.2
gamma-BHC (Lindane)	5.29	5.24	5.34	0.020	0.020	0.3
Endrin	8.48	8.41	8.55	0.096	0.100	-3.8
4,4'-DDT	8.98	8.91	9.05	0.191	0.200	-4.5
Methoxychlor	9.68	9.61	9.75	0.472	0.500	-5.6
TCX	4.10	4.05	4.15	0.039	0.040	-2.0
DCB	11.54	11.44	11.64	0.041	0.040	3.6

4,4'-DDT %Breakdown (1): 0.2 Endrin %Breakdown (1): 8.9

Combined %Breakdown (1): 9.1

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7J - FORM VII PEST-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/19/2015 06/19/2015

EPA Sample No. (PIBLK##): PIBLK21 Date Analyzed: 06/19/2015

Lab Sample ID (PIBLK): PIBLK21 Time Analyzed: 23:28

EPA Sample No. (PEM##): PEM21 Date Analyzed: 06/19/2015

Lab Sample ID (PEM): PEM21 Time Analyzed: 23:49

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	4.85	4.80	4.90	0.019	0.020	-5.4
beta-BHC	5.40	5.35	5.45	0.020	0.020	-0.2
gamma-BHC (Lindane)	5.29	5.24	5.34	0.020	0.020	-1.6
Endrin	8.48	8.41	8.55	0.095	0.100	-5.4
4,4'-DDT	8.98	8.91	9.05	0.190	0.200	-5.1
Methoxychlor	9.68	9.61	9.75	0.481	0.500	-3.9
TCX	4.10	4.05	4.15	0.038	0.040	-4.3
DCB	11.54	11.44	11.64	0.041	0.040	3.7

4,4'-DDT %Breakdown (1): 0.2 Endrin %Breakdown (1): 10.4

Combined %Breakdown (1): 10.6

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7J - FORM VII PEST-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/19/2015 06/19/2015

EPA Sample No. (PIBLK##): PIBLK71 Date Analyzed: 06/23/2015

Lab Sample ID (PIBLK): PIBLK71 Time Analyzed: 14:14

EPA Sample No. (PEM##): PEM71 Date Analyzed: 06/23/2015

Lab Sample ID (PEM): PEM71 Time Analyzed: 14:34

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	4.83	4.80	4.90	0.021	0.020	5.1
beta-BHC	5.39	5.35	5.45	0.022	0.020	8.3
gamma-BHC (Lindane)	5.27	5.24	5.34	0.022	0.020	8.8
Endrin	8.46	8.41	8.55	0.106	0.100	5.9
4,4'-DDT	8.96	8.91	9.05	0.202	0.200	1.2
Methoxychlor	9.66	9.61	9.75	0.492	0.500	-1.6
TCX	4.09	4.05	4.15	0.042	0.040	5.8
DCB	11.52	11.44	11.64	0.039	0.040	-2.9

4,4'-DDT %Breakdown (1): 0.3 Endrin %Breakdown (1): 5.8

Combined %Breakdown (1): 6.1

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7J - FORM VII PEST-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/19/2015 06/19/2015

EPA Sample No. (PIBLK##): Date Analyzed:

Lab Sample ID (PIBLK): Time Analyzed:

EPA Sample No. (PEM##): PEM12 Date Analyzed: 06/19/2015

Lab Sample ID (PEM): PEM12 Time Analyzed: 19:59

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	5.55	5.49	5.59	0.020	0.020	2.1
beta-BHC	6.18	6.13	6.23	0.022	0.020	9.0
gamma-BHC (Lindane)	6.07	6.01	6.11	0.021	0.020	4.6
Endrin	9.49	9.42	9.56	0.096	0.100	-4.3
4,4'-DDT	10.09	10.02	10.16	0.188	0.200	-5.9
Methoxychlor	10.95	10.88	11.02	0.462	0.500	-7.7
TCX	4.66	4.61	4.71	0.040	0.040	0.7
DCB	12.57	12.47	12.67	0.041	0.040	3.6

4,4'-DDT %Breakdown (1): 1.1 Endrin %Breakdown (1): 7.3

Combined %Breakdown (1): 8.4

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7J - FORM VII PEST-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/19/2015 06/19/2015

EPA Sample No. (PIBLK##): PIBLK22 Date Analyzed: 06/19/2015

Lab Sample ID (PIBLK): PIBLK22 Time Analyzed: 23:49

EPA Sample No. (PEM##): PEM22 Date Analyzed: 06/20/2015

Lab Sample ID (PEM): PEM22 Time Analyzed: 00:10

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	5.54	5.49	5.59	0.020	0.020	-0.4
beta-BHC	6.18	6.13	6.23	0.021	0.020	6.2
gamma-BHC (Lindane)	6.07	6.01	6.11	0.021	0.020	2.7
Endrin	9.49	9.42	9.56	0.094	0.100	-5.5
4,4'-DDT	10.08	10.02	10.16	0.189	0.200	-5.3
Methoxychlor	10.95	10.88	11.02	0.484	0.500	-3.3
TCX	4.66	4.61	4.71	0.039	0.040	-1.6
DCB	12.57	12.47	12.67	0.041	0.040	3.1

4,4'-DDT %Breakdown (1): 1.2 Endrin %Breakdown (1): 9.5

Combined %Breakdown (1): 10.7

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7J - FORM VII PEST-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/19/2015 06/19/2015

EPA Sample No. (PIBLK##): PIBLK72 Date Analyzed: 06/23/2015

Lab Sample ID (PIBLK): PIBLK72 Time Analyzed: 14:34

EPA Sample No. (PEM##): PEM72 Date Analyzed: 06/23/2015

Lab Sample ID (PEM): PEM72 Time Analyzed: 14:55

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	5.53	5.49	5.59	0.021	0.020	3.6
beta-BHC	6.16	6.13	6.23	0.022	0.020	10.8
gamma-BHC (Lindane)	6.05	6.01	6.11	0.021	0.020	5.9
Endrin	9.47	9.42	9.56	0.100	0.100	0.1
4,4'-DDT	10.06	10.02	10.16	0.193	0.200	-3.3
Methoxychlor	10.93	10.88	11.02	0.490	0.500	-2.0
TCX	4.65	4.61	4.71	0.040	0.040	0.8
DCB	12.55	12.47	12.67	0.042	0.040	5.5

4,4'-DDT %Breakdown (1): 0.8 Endrin %Breakdown (1): 4.5

Combined %Breakdown (1): 5.3

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7L - FORM VII PEST-3

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/19/2015 06/19/2015

EPA Sample No. (PIBLK##): PIBLK81 Date Analyzed: 06/23/2015

Lab Sample ID (PIBLK): PIBLK81 Time Analyzed: 23:19

EPA Sample No. (INDC3##): INDC381 Date Analyzed: 06/23/2015

Lab Sample ID (INDC3): INDC381 Time Analyzed: 23:40

INDIVIDUAL MIX C COMPOUND	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
alpha-BHC	4.83	4.80	4.90	1510000	1620000	7.5
gamma-BHC (Lindane)	5.26	5.24	5.34	1400000	1500000	7.5
Heptachlor	5.92	5.90	6.00	1480000	1540000	4.1
Endosulfan I	7.77	7.73	7.87	1280000	1290000	1.4
Dieldrin	8.12	8.08	8.22	1160000	1200000	3.9
Endrin	8.46	8.41	8.55	1020000	1090000	6.7
4,4'-DDD	8.55	8.51	8.65	928000	1010000	8.8
4,4'-DDT	8.95	8.91	9.05	1020000	1010000	-1.1
Methoxychlor	9.65	9.61	9.75	511000	510000	-0.2
beta-BHC	5.38	5.35	5.45	737000	804000	9.1
delta-BHC	5.63	5.60	5.70	1360000	1460000	7.3
Aldrin	6.35	6.32	6.42	1300000	1360000	4.2
Heptachlor epoxide	7.21	7.17	7.31	1240000	1290000	3.8
4,4'-DDE	7.69	7.64	7.78	1080000	1150000	6.5
Endosulfan II	8.78	8.74	8.88	1010000	1030000	2.3
Endosulfan sulfate	10.02	9.98	10.12	923000	908000	-1.7
Endrin ketone	10.39	10.35	10.49	1180000	1190000	1.0
Endrin aldehyde	9.39	9.35	9.49	855000	847000	-0.9
alpha-Chlordane	7.58	7.53	7.67	1300000	1340000	3.1
gamma-Chlordane	7.39	7.34	7.48	1270000	1310000	3.0
TCX	4.09	4.05	4.15	1160000	1230000	5.8
DCB	11.51	11.44	11.64	993000	919000	-7.5

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7L - FORM VII PEST-3

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/19/2015 06/19/2015

EPA Sample No. (PIBLK##): PIBLK82 Date Analyzed: 06/23/2015

Lab Sample ID (PIBLK): PIBLK82 Time Analyzed: 23:40

EPA Sample No. (INDC3##): INDC382 Date Analyzed: 06/24/2015

Lab Sample ID (INDC3): INDC382 Time Analyzed: 00:00

INDIVIDUAL MIX C COMPOUND	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
alpha-BHC	5.53	5.49	5.59	1250000	1270000	1.5
gamma-BHC (Lindane)	6.05	6.01	6.11	1140000	1150000	0.5
Heptachlor	6.70	6.67	6.77	1160000	1170000	0.9
Endosulfan I	8.60	8.56	8.70	917000	921000	0.3
Dieldrin	9.01	8.97	9.11	944000	950000	0.6
Endrin	9.46	9.42	9.56	820000	857000	4.5
4,4'-DDD	9.60	9.56	9.70	739000	776000	4.9
4,4'-DDT	10.06	10.02	10.16	796000	767000	-3.6
Methoxychlor	10.93	10.88	11.02	385000	375000	-2.6
beta-BHC	6.16	6.13	6.23	609000	603000	-1.0
delta-BHC	6.59	6.56	6.66	1090000	1110000	1.4
Aldrin	7.18	7.15	7.25	1020000	1030000	0.5
Heptachlor epoxide	8.02	7.97	8.11	979000	984000	0.5
4,4'-DDE	8.75	8.70	8.84	907000	914000	0.8
Endosulfan II	9.77	9.73	9.87	803000	809000	0.7
Endosulfan sulfate	10.61	10.57	10.71	723000	678000	-6.3
Endrin ketone	11.26	11.22	11.36	900000	884000	-1.9
Endrin aldehyde	10.25	10.21	10.35	640000	637000	-0.4
alpha-Chlordane	8.51	8.47	8.61	1020000	1020000	-0.3
gamma-Chlordane	8.30	8.25	8.39	1020000	999000	-1.7
TCX	4.65	4.61	4.71	995000	972000	-2.4
DCB	12.55	12.47	12.67	779000	708000	-9.1

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

8G - FORM VIII PEST
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/19/2015 06/19/2015

Instrument ID: GCE21

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.10 DCB: 11.54

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC11	21150619A004	06/19/2015	19:17	4.10	11.53
02	PEM11	21150619A005	06/19/2015	19:38	4.10	11.54
03	TOXAPH111	21150619A006	06/19/2015	19:59	4.10	11.54
04	TOXAPH211	21150619A007	06/19/2015	20:20	4.10	11.54
05	TOXAPH311	21150619A008	06/19/2015	20:41	4.10	11.54
06	TOXAPH411	21150619A009	06/19/2015	21:02	4.10	11.54
07	TOXAPH511	21150619A010	06/19/2015	21:23	4.10	11.54
08	INDC111	21150619A011	06/19/2015	21:44	4.10	11.54
09	INDC211	21150619A012	06/19/2015	22:05	4.10	11.54
10	INDC311	21150619A013	06/19/2015	22:26	4.10	11.54
11	INDC411	21150619A014	06/19/2015	22:47	4.10	11.54
12	INDC511	21150619A015	06/19/2015	23:07	4.10	11.54
13	PIBLK21	21150619A016	06/19/2015	23:28	4.10	11.54
14	PEM21	21150619A017	06/19/2015	23:49	4.10	11.54
15	PIBLK71	21150619A068	06/23/2015	14:14	4.09	11.52
16	PEM71	21150619A069	06/23/2015	14:34	4.09	11.52
17	PBLKS1	21150619A070	06/23/2015	14:55	4.09	11.51
18	PLCSS1	21150619A071	06/23/2015	15:16	4.09	11.51
19	F9K00	21150619A072	06/23/2015	15:37	4.09	11.51
20	F9M82	21150619A073	06/23/2015	15:58	4.08	11.51
21	F9M83	21150619A074	06/23/2015	16:19	4.09	11.51
22	F9M84	21150619A075	06/23/2015	16:40	4.09	11.51
23	F9M85	21150619A076	06/23/2015	17:01	4.09	11.51
24	F9M86	21150619A077	06/23/2015	17:22	4.09	11.51
25	F9M87	21150619A078	06/23/2015	17:43	4.09	11.51
26	F9M88	21150619A079	06/23/2015	18:04	4.08	11.51
27	F9M89	21150619A080	06/23/2015	18:25	4.09	11.51
28	F9M90	21150619A081	06/23/2015	18:46	4.08	11.51
29	F9M91	21150619A082	06/23/2015	19:07	4.08	11.51
30	F9M91MS	21150619A083	06/23/2015	19:28	4.08	11.51
31	F9M91MSD	21150619A084	06/23/2015	19:49	4.08	11.51
32	F9M92	21150619A085	06/23/2015	20:10	4.08	11.51

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8G - FORM VIII PEST
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/19/2015 06/19/2015

Instrument ID: GCE21

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.10 DCB: 11.54

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	F9M93	21150619A086	06/23/2015	20:31	4.08	11.51
02	F9M94	21150619A087	06/23/2015	20:52	4.08	11.51
03	F9M95	21150619A088	06/23/2015	21:13	4.08	11.51
04	F9M96	21150619A089	06/23/2015	21:34	4.08	11.51
05	F9M97	21150619A090	06/23/2015	21:55	4.08	11.51
06	F9M98	21150619A091	06/23/2015	22:16	4.09	11.51
07	F9M99	21150619A092	06/23/2015	22:37	4.08	11.51
08	ZZZZZ		06/23/2015	22:58		
09	PIBLK81	21150619A094	06/23/2015	23:19	4.08	11.51
10	INDC381	21150619A095	06/23/2015	23:40	4.09	11.51
11						
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13						
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31						
32						

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8G - FORM VIII PEST
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/19/2015 06/19/2015

Instrument ID: GCE21

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.66 DCB: 12.57

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC12	21150619B004	06/19/2015	19:38	4.66	12.57
02	PEM12	21150619B005	06/19/2015	19:59	4.66	12.57
03	TOXAPH112	21150619B006	06/19/2015	20:20	4.66	12.57
04	TOXAPH212	21150619B007	06/19/2015	20:41	4.66	12.57
05	TOXAPH312	21150619B008	06/19/2015	21:02	4.66	12.57
06	TOXAPH412	21150619B009	06/19/2015	21:23	4.66	12.57
07	TOXAPH512	21150619B010	06/19/2015	21:44	4.66	12.57
08	INDC112	21150619B011	06/19/2015	22:05	4.66	12.57
09	INDC212	21150619B012	06/19/2015	22:26	4.66	12.57
10	INDC312	21150619B013	06/19/2015	22:47	4.66	12.57
11	INDC412	21150619B014	06/19/2015	23:07	4.66	12.57
12	INDC512	21150619B015	06/19/2015	23:28	4.66	12.57
13	PIBLK22	21150619B016	06/19/2015	23:49	4.66	12.57
14	PEM22	21150619B017	06/20/2015	00:10	4.66	12.57
15	PIBLK72	21150619B068	06/23/2015	14:34	4.65	12.55
16	PEM72	21150619B069	06/23/2015	14:55	4.65	12.55
17	PBLKS1	21150619B070	06/23/2015	15:16	4.65	12.55
18	PLCSS1	21150619B071	06/23/2015	15:37	4.65	12.55
19	F9K00	21150619B072	06/23/2015	15:58	4.65	12.55
20	F9M82	21150619B073	06/23/2015	16:19	4.65	12.55
21	F9M83	21150619B074	06/23/2015	16:40	4.65	12.55
22	F9M84	21150619B075	06/23/2015	17:01	4.65	12.55
23	F9M85	21150619B076	06/23/2015	17:22	4.65	12.55
24	F9M86	21150619B077	06/23/2015	17:43	4.65	12.55
25	F9M87	21150619B078	06/23/2015	18:04	4.64	12.54
26	F9M88	21150619B079	06/23/2015	18:25	4.65	12.55
27	F9M89	21150619B080	06/23/2015	18:46	4.65	12.55
28	F9M90	21150619B081	06/23/2015	19:07	4.65	12.54
29	F9M91	21150619B082	06/23/2015	19:28	4.65	12.55
30	F9M91MS	21150619B083	06/23/2015	19:49	4.64	12.55
31	F9M91MSD	21150619B084	06/23/2015	20:10	4.65	12.54
32	F9M92	21150619B085	06/23/2015	20:31	4.65	12.55

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8G - FORM VIII PEST
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/19/2015 06/19/2015

Instrument ID: GCE21

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.66 DCB: 12.57

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	F9M93	21150619B086	06/23/2015	20:52	4.65	12.55
02	F9M94	21150619B087	06/23/2015	21:13	4.65	12.55
03	F9M95	21150619B088	06/23/2015	21:34	4.65	12.55
04	F9M96	21150619B089	06/23/2015	21:55	4.65	12.55
05	F9M97	21150619B090	06/23/2015	22:16	4.65	12.55
06	F9M98	21150619B091	06/23/2015	22:37	4.65	12.55
07	F9M99	21150619B092	06/23/2015	22:58	4.65	12.55
08	ZZZZZ		06/23/2015	23:19		
09	PIBLK82	21150619B094	06/23/2015	23:40	4.65	12.55
10	INDC382	21150619B095	06/24/2015	00:00	4.65	12.55
11						
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QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

9A - FORM IX PEST-1
PESTICIDE FLORISIL CARTRIDGE CHECK

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Florisil Cartridge Lot Number: FLO24680 Date of Analysis: 03/10/2015

GC Column: RTXCLP ID: 0.32 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	%REC #	QC LIMITS
alpha-BHC	0.020	0.020	99	80-120
gamma-BHC (Lindane)	0.020	0.020	102	80-120
Heptachlor	0.020	0.021	106	80-120
Endosulfan I	0.020	0.021	105	80-120
Dieldrin	0.040	0.043	106	80-120
Endrin	0.040	0.045	113	80-120
4,4'-DDD	0.040	0.042	106	80-120
4,4'-DDT	0.040	0.043	107	80-120
Methoxychlor	0.20	0.23	113	80-120
TCX	0.020	0.021	104	80-120
DCB	0.040	0.047	117	80-120
2,4,5-Trichlorophenol	0.10	0.00066	1	<5

Column to be used to flag recovery with an asterisk.

THIS CARTRIDGE LOT APPLIES TO THE FOLLOWING SAMPLES, BLANKS, LCSs AND MS/MSDs:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBLKS1	451343	06/23/2015	06/23/2015
02	PLCSS1	451344	06/23/2015	06/23/2015
03	F9K00	1515725001	06/23/2015	06/23/2015
04	F9M82	1515725002	06/23/2015	06/23/2015
05	F9M83	1515725003	06/23/2015	06/23/2015
06	F9M84	1515725004	06/23/2015	06/23/2015
07	F9M85	1515725005	06/23/2015	06/23/2015
08	F9M86	1515725006	06/23/2015	06/23/2015
09	F9M87	1515725007	06/23/2015	06/23/2015
10	F9M88	1515725008	06/23/2015	06/23/2015
11	F9M89	1515725009	06/23/2015	06/23/2015
12	F9M90	1515725010	06/23/2015	06/23/2015
13	F9M91	1515725011	06/23/2015	06/23/2015
14	F9M91MS	1515725012	06/23/2015	06/23/2015
15	F9M91MSD	1515725013	06/23/2015	06/23/2015
16	F9M92	1515725014	06/23/2015	06/23/2015
17	F9M93	1515725015	06/23/2015	06/23/2015
18	F9M94	1515725016	06/23/2015	06/23/2015
19	F9M95	1515725017	06/23/2015	06/23/2015
20	F9M96	1515725018	06/23/2015	06/23/2015
21	F9M97	1515725019	06/23/2015	06/23/2015
22	F9M98	1515725020	06/23/2015	06/23/2015
23	F9M99	1515725021	06/23/2015	06/23/2015

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

9B - FORM IX PEST-2
PESTICIDE GPC CALIBRATION VERIFICATION

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GPC Column: GPC6 Calibration Verification Date: 06/10/2015

GC Column: RTXCLP2 ID: 0.32 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	%REC #	QC LIMITS
gamma-BHC (Lindane)	0.020	0.017	86	80-110
Heptachlor	0.020	0.017	84	80-110
Aldrin	0.020	0.020	99	80-110
Dieldrin	0.040	0.039	97	80-110
Endrin	0.040	0.035	87	80-110
4,4'-DDT	0.040	0.036	91	80-110

Column to be used to flag recovery with an asterisk.

THIS GPC CALIBRATION VERIFICATION APPLIES TO THE FOLLOWING SAMPLES, BLANKS, LCSs, AND MS/MSDs:

	EPA SAMPLE NO.	LAB SAMPLE ID	GPC CLEANUP DATE
01	PBLKS1	451343	06/14/2015
02	PLCSS1	451344	06/14/2015
03	F9K00	1515725001	06/14/2015
04	F9M82	1515725002	06/14/2015
05	F9M83	1515725003	06/14/2015
06	F9M84	1515725004	06/14/2015
07	F9M85	1515725005	06/14/2015
08	F9M86	1515725006	06/14/2015
09	F9M87	1515725007	06/14/2015
10	F9M88	1515725008	06/14/2015
11	F9M89	1515725009	06/14/2015
12	F9M90	1515725010	06/14/2015
13	F9M91	1515725011	06/14/2015
14	F9M91MS	1515725012	06/14/2015
15	F9M91MSD	1515725013	06/14/2015
16	F9M92	1515725014	06/14/2015
17	F9M93	1515725015	06/14/2015
18	F9M94	1515725016	06/14/2015
19	F9M95	1515725017	06/14/2015
20	F9M96	1515725018	06/14/2015
21	F9M97	1515725019	06/14/2015
22	F9M98	1515725020	06/14/2015
23	F9M99	1515725021	06/14/2015

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9K00

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725001 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aldrin	1	6.33	6.32	6.42	0.25	
	2	7.23	7.15	7.25	1.2	355.5
Dieldrin	1	8.18	8.08	8.22	0.24	
	2	8.97	8.97	9.11	0.82	249.2
4,4'-DDE	1	7.68	7.64	7.78	0.33	
	2	8.75	8.70	8.84	0.90	173.2
Endrin	1	8.52	8.41	8.55	0.70	
	2	9.45	9.42	9.56	1.5	110.5
4,4'-DDT	1	8.95	8.91	9.05	0.19	
	2	10.06	10.02	10.16	0.53	170.2
Methoxychlor	1	9.64	9.61	9.75	1.3	
	2	10.96	10.88	11.02	1.6	25.1
Endrin aldehyde	1	9.44	9.35	9.49	0.31	
	2	10.25	10.21	10.35	0.76	143.1
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M82

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725002 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.90	4.80	4.90	0.12	
	2	5.57	5.49	5.59	0.16	36.0
beta-BHC	1	5.42	5.35	5.45	0.91	
	2	6.17	6.13	6.23	0.10	816.3
Aldrin	1	6.33	6.32	6.42	0.50	
	2	7.23	7.15	7.25	1.5	204.5
Dieldrin	1	8.18	8.08	8.22	0.32	
	2	8.97	8.97	9.11	1.2	283.9
Endrin	1	8.52	8.41	8.55	1.3	
	2	9.44	9.42	9.56	1.3	4.3
Endosulfan II	1	8.80	8.74	8.88	0.089	
	2	9.78	9.73	9.87	0.95	970.4
4,4'-DDT	1	9.00	8.91	9.05	0.48	
	2	10.06	10.02	10.16	0.55	14.9
Methoxychlor	1	9.75	9.61	9.75	0.65	
	2	10.92	10.88	11.02	4.1	525.9

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M82

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725002 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endrin ketone	1	10.46	10.35	10.49	0.084	
	2	11.28	11.22	11.36	0.080	5.5
Endrin aldehyde	1	9.44	9.35	9.49	0.45	
	2	10.25	10.21	10.35	1.4	218.4
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M83

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725003 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.89	4.80	4.90	0.082	
	2	5.57	5.49	5.59	0.12	45.1
beta-BHC	1	5.43	5.35	5.45	1.4	
	2	6.17	6.13	6.23	0.36	298.2
delta-BHC	1	5.65	5.60	5.70	0.27	
	2	6.63	6.56	6.66	0.66	147.0
gamma-BHC (Lindane)	1	5.30	5.24	5.34	0.14	
	2	6.07	6.01	6.11	0.099	41.5
Dieldrin	1	8.18	8.08	8.22	0.30	
	2	8.97	8.97	9.11	0.93	208.3
4,4'-DDE	1	7.76	7.64	7.78	0.028	
	2	8.81	8.70	8.84	1.6	999.9
Endrin	1	8.52	8.41	8.55	0.84	
	2	9.44	9.42	9.56	5.3	533.9
4,4'-DDT	1	8.95	8.91	9.05	0.83	
	2	10.06	10.02	10.16	0.72	15.5

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M83

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725003 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Methoxychlor	1	9.63	9.61	9.75	1.7	
	2	10.91	10.88	11.02	0.49	247.1
Endrin ketone	1	10.42	10.35	10.49	1.3	
	2	11.28	11.22	11.36	0.25	427.5
Endrin aldehyde	1	9.44	9.35	9.49	0.60	
	2	10.25	10.21	10.35	1.1	76.4
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M84

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725004 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.89	4.80	4.90	0.14	
	2	5.58	5.49	5.59	0.084	66.8
beta-BHC	1	5.43	5.35	5.45	2.5	
	2	6.17	6.13	6.23	2.0	28.4
delta-BHC	1	5.65	5.60	5.70	1.1	
	2	6.62	6.56	6.66	0.051	999.9
Dieldrin	1	8.13	8.08	8.22	0.070	
	2	9.08	8.97	9.11	0.073	4.3
4,4'-DDE	1	7.71	7.64	7.78	0.15	
	2	8.81	8.70	8.84	1.4	835.9
Endrin	1	8.51	8.41	8.55	2.8	
	2	9.43	9.42	9.56	15.	431.8
4,4'-DDD	1	8.58	8.51	8.65	0.78	
	2	9.61	9.56	9.70	1.9	139.3
4,4'-DDT	1	8.94	8.91	9.05	3.1	
	2	10.08	10.02	10.16	1.2	168.0

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M84

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725004 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endrin ketone	1	10.42	10.35	10.49	2.3	
	2	11.23	11.22	11.36	0.94	141.8
Endrin aldehyde	1	9.43	9.35	9.49	0.57	
	2	10.25	10.21	10.35	3.3	474.7
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M85

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725005 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
gamma-BHC (Lindane)	1	5.30	5.24	5.34	0.10	
	2	6.07	6.01	6.11	0.086	20.1
Aldrin	1	6.33	6.32	6.42	0.073	
	2	7.23	7.15	7.25	1.8	999.9
Dieldrin	1	8.18	8.08	8.22	0.36	
	2	8.97	8.97	9.11	1.3	261.2
4,4'-DDE	1	7.68	7.64	7.78	0.48	
	2	8.75	8.70	8.84	1.0	115.4
Endrin	1	8.51	8.41	8.55	0.88	
	2	9.44	9.42	9.56	0.86	1.9
Endosulfan II	1	8.84	8.74	8.88	0.24	
	2	9.79	9.73	9.87	1.1	360.7
Endosulfan sulfate	1	10.07	9.98	10.12	0.035	
	2	10.59	10.57	10.71	0.56	999.9
4,4'-DDT	1	8.95	8.91	9.05	1.1	
	2	10.05	10.02	10.16	1.6	36.3

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M85

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725005 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Methoxychlor	1	9.73	9.61	9.75	0.96	
	2	10.89	10.88	11.02	1.9	97.2
Endrin ketone	1	10.38	10.35	10.49	0.83	
	2	11.28	11.22	11.36	0.47	76.4
Endrin aldehyde	1	9.45	9.35	9.49	0.39	
	2	10.25	10.21	10.35	0.60	52.5
gamma-Chlordane	1	7.38	7.34	7.48	0.15	
	2	8.29	8.25	8.39	0.65	319.2
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M86

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725006 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.90	4.80	4.90	0.042	
	2	5.57	5.49	5.59	0.12	194.0
beta-BHC	1	5.42	5.35	5.45	1.1	
	2	6.18	6.13	6.23	0.11	919.1
delta-BHC	1	5.65	5.60	5.70	0.18	
	2	6.64	6.56	6.66	0.24	37.0
gamma-BHC (Lindane)	1	5.30	5.24	5.34	0.15	
	2	6.07	6.01	6.11	0.30	104.6
Aldrin	1	6.33	6.32	6.42	0.35	
	2	7.23	7.15	7.25	0.82	133.9
Dieldrin	1	8.18	8.08	8.22	0.42	
	2	8.97	8.97	9.11	0.48	15.0
4,4'-DDE	1	7.68	7.64	7.78	0.33	
	2	8.75	8.70	8.84	0.81	145.0
Endrin	1	8.51	8.41	8.55	0.56	
	2	9.44	9.42	9.56	2.0	249.3

0141217

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M86

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725006 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endosulfan II	1	8.84	8.74	8.88	0.17	
	2	9.79	9.73	9.87	1.8	940.2
4,4'-DDD	1	8.58	8.51	8.65	0.15	
	2	9.65	9.56	9.70	1.0	578.3
4,4'-DDT	1	8.95	8.91	9.05	0.31	
	2	10.05	10.02	10.16	1.2	281.4
Endrin ketone	1	10.38	10.35	10.49	0.72	
	2	11.28	11.22	11.36	0.29	150.5
Endrin aldehyde	1	9.45	9.35	9.49	0.17	
	2	10.25	10.21	10.35	0.42	147.3
alpha-Chlordane	1	7.64	7.53	7.67	0.17	
	2	8.51	8.47	8.61	0.28	61.9
gamma-Chlordane	1	7.43	7.34	7.48	0.12	
	2	8.29	8.25	8.39	0.36	201.1
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M87

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725007 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.90	4.80	4.90	0.16	
	2	5.55	5.49	5.59	0.20	24.8
gamma-BHC (Lindane)	1	5.30	5.24	5.34	0.26	
	2	6.07	6.01	6.11	0.11	130.8
Aldrin	1	6.33	6.32	6.42	0.61	
	2	7.23	7.15	7.25	1.3	110.8
Dieldrin	1	8.18	8.08	8.22	0.27	
	2	9.07	8.97	9.11	0.26	6.6
4,4'-DDE	1	7.68	7.64	7.78	0.30	
	2	8.74	8.70	8.84	1.7	447.6
Endrin	1	8.51	8.41	8.55	0.94	
	2	9.44	9.42	9.56	1.6	66.8
Endosulfan II	1	8.81	8.74	8.88	0.23	
	2	9.79	9.73	9.87	0.55	139.3
Endosulfan sulfate	1	10.10	9.98	10.12	0.41	
	2	10.68	10.57	10.71	1.1	178.8

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M87

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725007 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
4,4'-DDT	1	8.95	8.91	9.05	2.9	
	2	10.06	10.02	10.16	3.5	21.0
Methoxychlor	1	9.66	9.61	9.75	1.0	
	2	10.96	10.88	11.02	1.8	74.3
Endrin ketone	1	10.38	10.35	10.49	0.40	
	2	11.28	11.22	11.36	0.18	121.6
Endrin aldehyde	1	9.44	9.35	9.49	0.21	
	2	10.25	10.21	10.35	0.75	251.1
gamma-Chlordane	1	7.37	7.34	7.48	0.12	
	2	8.29	8.25	8.39	0.19	53.4
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M88

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725008 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
beta-BHC	1	5.42	5.35	5.45	2.4	
	2	6.17	6.13	6.23	0.69	239.8
Heptachlor	1	5.91	5.90	6.00	0.61	
	2	6.69	6.67	6.77	0.069	778.2
Aldrin	1	6.33	6.32	6.42	1.1	
	2	7.23	7.15	7.25	1.3	23.5
Dieldrin	1	8.18	8.08	8.22	0.15	
	2	9.01	8.97	9.11	0.89	498.6
4,4'-DDE	1	7.68	7.64	7.78	0.10	
	2	8.75	8.70	8.84	0.88	748.7
Endrin	1	8.51	8.41	8.55	0.57	
	2	9.43	9.42	9.56	5.8	930.1
4,4'-DDT	1	8.95	8.91	9.05	0.91	
	2	10.07	10.02	10.16	0.86	6.1
Endrin ketone	1	10.42	10.35	10.49	0.55	
	2	11.28	11.22	11.36	0.25	124.8

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M88

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725008 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endrin aldehyde	1	9.44	9.35	9.49	0.56	
	2	10.25	10.21	10.35	1.5	159.5
gamma-Chlordane	1	7.43	7.34	7.48	0.15	
	2	8.29	8.25	8.39	0.16	13.2
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M89

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725009 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.88	4.80	4.90	0.081	
	2	5.50	5.49	5.59	0.26	215.1
beta-BHC	1	5.39	5.35	5.45	1.0	
	2	6.17	6.13	6.23	3.7	263.9
delta-BHC	1	5.65	5.60	5.70	1.7	
	2	6.62	6.56	6.66	0.54	210.1
Aldrin	1	6.33	6.32	6.42	5.0	
	2	7.23	7.15	7.25	1.4	259.7
Dieldrin	1	8.12	8.08	8.22	0.11	
	2	9.08	8.97	9.11	0.38	233.5
4,4'-DDE	1	7.72	7.64	7.78	0.23	
	2	8.80	8.70	8.84	3.0	999.9
Endrin	1	8.52	8.41	8.55	0.91	
	2	9.43	9.42	9.56	17.	999.9
4,4'-DDT	1	8.99	8.91	9.05	0.40	
	2	10.08	10.02	10.16	0.98	142.2

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M89

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725009 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endrin ketone	1	10.42	10.35	10.49	3.0	
	2	11.23	11.22	11.36	1.3	138.7
Endrin aldehyde	1	9.44	9.35	9.49	0.19	
	2	10.25	10.21	10.35	1.3	604.4
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M90

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725010 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.88	4.80	4.90	0.063	
	2	5.49	5.49	5.59	0.30	375.3
beta-BHC	1	5.43	5.35	5.45	2.4	
	2	6.17	6.13	6.23	1.6	49.6
delta-BHC	1	5.65	5.60	5.70	0.66	
	2	6.65	6.56	6.66	0.45	44.6
Aldrin	1	6.33	6.32	6.42	2.1	
	2	7.24	7.15	7.25	1.2	76.5
Dieldrin	1	8.18	8.08	8.22	0.15	
	2	9.08	8.97	9.11	0.13	16.6
4,4'-DDE	1	7.72	7.64	7.78	0.024	
	2	8.80	8.70	8.84	1.1	999.9
Endrin	1	8.52	8.41	8.55	1.6	
	2	9.43	9.42	9.56	10.	548.8
4,4'-DDD	1	8.64	8.51	8.65	0.30	
	2	9.61	9.56	9.70	1.3	321.5

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M90

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725010 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
4,4'-DDT	1	8.95	8.91	9.05	0.64	
	2	10.05	10.02	10.16	0.85	32.8
Methoxychlor	1	9.63	9.61	9.75	1.3	
	2	10.96	10.88	11.02	3.3	164.1
Endrin ketone	1	10.42	10.35	10.49	2.0	
	2	11.27	11.22	11.36	0.29	598.2
Endrin aldehyde	1	9.43	9.35	9.49	0.17	
	2	10.25	10.21	10.35	0.92	447.6
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M91

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725011 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.90	4.80	4.90	0.17	
	2	5.57	5.49	5.59	0.13	30.0
beta-BHC	1	5.39	5.35	5.45	1.4	
	2	6.17	6.13	6.23	5.1	266.1
delta-BHC	1	5.65	5.60	5.70	2.5	
	2	6.62	6.56	6.66	1.6	52.0
Aldrin	1	6.33	6.32	6.42	7.4	
	2	7.24	7.15	7.25	2.0	268.6
Dieldrin	1	8.18	8.08	8.22	0.18	
	2	9.08	8.97	9.11	0.40	125.6
4,4'-DDE	1	7.72	7.64	7.78	0.55	
	2	8.80	8.70	8.84	3.1	465.2
Endrin	1	8.52	8.41	8.55	0.76	
	2	9.43	9.42	9.56	27.	999.9
4,4'-DDD	1	8.64	8.51	8.65	0.27	
	2	9.62	9.56	9.70	3.4	999.9

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M91

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725011 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
4,4'-DDT	1	8.99	8.91	9.05	2.1	
	2	10.05	10.02	10.16	2.4	11.6
Methoxychlor	1	9.62	9.61	9.75	2.8	
	2	10.96	10.88	11.02	6.0	113.7
Endrin ketone	1	10.42	10.35	10.49	6.0	
	2	11.23	11.22	11.36	1.8	235.6
Endrin aldehyde	1	9.44	9.35	9.49	0.25	
	2	10.24	10.21	10.35	0.93	278.8
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M91MS

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725012 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.89	4.80	4.90	0.10	
	2	5.57	5.49	5.59	0.12	15.9
beta-BHC	1	5.43	5.35	5.45	4.4	
	2	6.17	6.13	6.23	2.0	121.7
delta-BHC	1	5.65	5.60	5.70	1.2	
	2	6.62	6.56	6.66	0.44	177.3
gamma-BHC (Lindane)	1	5.26	5.24	5.34	18.	
	2	6.04	6.01	6.11	17.	4.5
Heptachlor	1	5.92	5.90	6.00	17.	
	2	6.69	6.67	6.77	17.	2.7
Aldrin	1	6.34	6.32	6.42	19.	
	2	7.17	7.15	7.25	16.	17.3
Dieldrin	1	8.12	8.08	8.22	30.	
	2	9.01	8.97	9.11	35.	17.5
4,4'-DDE	1	7.68	7.64	7.78	0.060	
	2	8.78	8.70	8.84	2.8	999.9

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M91MS

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725012 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endrin	1	8.45	8.41	8.55	38.	
	2	9.46	9.42	9.56	50.	31.4
4,4'-DDD	1	8.65	8.51	8.65	0.50	
	2	9.61	9.56	9.70	3.5	587.8
4,4'-DDT	1	8.95	8.91	9.05	37.	
	2	10.06	10.02	10.16	35.	6.6
Methoxychlor	1	9.62	9.61	9.75	2.1	
	2	10.96	10.88	11.02	4.3	104.6
Endrin ketone	1	10.39	10.35	10.49	5.6	
	2	11.26	11.22	11.36	3.3	68.7
Endrin aldehyde	1	9.44	9.35	9.49	0.48	
	2	10.25	10.21	10.35	1.3	169.2
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M91MSD

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725013 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.90	4.80	4.90	0.16	
	2	5.56	5.49	5.59	0.26	67.3
beta-BHC	1	5.43	5.35	5.45	1.7	
	2	6.17	6.13	6.23	0.21	714.5
gamma-BHC (Lindane)	1	5.26	5.24	5.34	18.	
	2	6.04	6.01	6.11	17.	4.7
Heptachlor	1	5.92	5.90	6.00	17.	
	2	6.69	6.67	6.77	16.	7.2
Aldrin	1	6.34	6.32	6.42	18.	
	2	7.17	7.15	7.25	16.	14.8
Dieldrin	1	8.12	8.08	8.22	30.	
	2	9.01	8.97	9.11	36.	19.3
4,4'-DDE	1	7.68	7.64	7.78	0.23	
	2	8.75	8.70	8.84	1.3	481.5
Endrin	1	8.45	8.41	8.55	36.	
	2	9.46	9.42	9.56	39.	8.2

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M91MSD

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725013 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endosulfan II	1	8.85	8.74	8.88	0.19	
	2	9.78	9.73	9.87	1.5	709.1
4,4'-DDT	1	8.95	8.91	9.05	36.	
	2	10.06	10.02	10.16	35.	1.5
Methoxychlor	1	9.62	9.61	9.75	1.6	
	2	10.96	10.88	11.02	4.7	186.2
Endrin ketone	1	10.39	10.35	10.49	3.7	
	2	11.26	11.22	11.36	2.6	39.7
Endrin aldehyde	1	9.44	9.35	9.49	0.41	
	2	10.25	10.21	10.35	1.3	213.0
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M92

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725014 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
beta-BHC	1	5.43	5.35	5.45	1.2	
	2	6.17	6.13	6.23	0.18	545.6
gamma-BHC (Lindane)	1	5.30	5.24	5.34	0.42	
	2	6.07	6.01	6.11	0.41	2.7
Heptachlor epoxide	1	7.20	7.17	7.31	0.21	
	2	8.03	7.97	8.11	0.10	110.0
Dieldrin	1	8.18	8.08	8.22	0.20	
	2	8.97	8.97	9.11	0.81	294.3
4,4'-DDE	1	7.68	7.64	7.78	0.093	
	2	8.75	8.70	8.84	0.96	925.6
Endrin	1	8.51	8.41	8.55	0.44	
	2	9.44	9.42	9.56	4.1	834.5
Endosulfan II	1	8.80	8.74	8.88	0.030	
	2	9.78	9.73	9.87	1.1	999.9
Endosulfan sulfate	1	10.07	9.98	10.12	0.51	
	2	10.61	10.57	10.71	0.61	18.6

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M92

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725014 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
4,4'-DDT	1	8.95	8.91	9.05	0.61	
	2	10.05	10.02	10.16	1.6	166.6
Endrin ketone	1	10.42	10.35	10.49	0.21	
	2	11.27	11.22	11.36	0.50	142.4
Endrin aldehyde	1	9.44	9.35	9.49	0.35	
	2	10.25	10.21	10.35	0.51	48.2
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M93

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725015 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.87	4.80	4.90	0.055	
	2	5.49	5.49	5.59	0.22	288.6
Aldrin	1	6.33	6.32	6.42	0.57	
	2	7.23	7.15	7.25	1.0	76.5
Dieldrin	1	8.18	8.08	8.22	0.24	
	2	8.97	8.97	9.11	0.38	56.3
4,4'-DDE	1	7.76	7.64	7.78	0.061	
	2	8.80	8.70	8.84	0.21	241.5
Endrin	1	8.51	8.41	8.55	1.0	
	2	9.44	9.42	9.56	3.1	197.4
Endosulfan II	1	8.84	8.74	8.88	0.34	
	2	9.78	9.73	9.87	0.17	102.3
Endosulfan sulfate	1	10.08	9.98	10.12	0.14	
	2	10.67	10.57	10.71	0.98	592.2
4,4'-DDT	1	8.95	8.91	9.05	0.24	
	2	10.06	10.02	10.16	0.71	193.2

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M93

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725015 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Methoxychlor	1	9.67	9.61	9.75	1.3	
	2	10.96	10.88	11.02	1.2	11.6
Endrin ketone	1	10.42	10.35	10.49	0.024	
	2	11.27	11.22	11.36	0.28	999.9
Endrin aldehyde	1	9.44	9.35	9.49	0.19	
	2	10.25	10.21	10.35	0.84	343.1
gamma-Chlordane	1	7.44	7.34	7.48	0.11	
	2	8.29	8.25	8.39	0.51	364.9
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M94

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725016 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.87	4.80	4.90	0.068	
	2	5.49	5.49	5.59	0.25	274.0
delta-BHC	1	5.64	5.60	5.70	0.27	
	2	6.64	6.56	6.66	0.27	1.4
Aldrin	1	6.33	6.32	6.42	0.14	
	2	7.24	7.15	7.25	0.82	481.6
4,4'-DDE	1	7.68	7.64	7.78	0.18	
	2	8.81	8.70	8.84	1.7	858.2
Endrin	1	8.51	8.41	8.55	1.2	
	2	9.44	9.42	9.56	0.95	30.0
Endosulfan II	1	8.85	8.74	8.88	0.45	
	2	9.78	9.73	9.87	0.20	127.2
Endosulfan sulfate	1	10.08	9.98	10.12	0.087	
	2	10.70	10.57	10.71	0.66	659.4
4,4'-DDT	1	8.95	8.91	9.05	1.0	
	2	10.06	10.02	10.16	0.64	63.2

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M94

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725016 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endrin ketone	1	10.38	10.35	10.49	0.15	
	2	11.30	11.22	11.36	0.20	32.4
Endrin aldehyde	1	9.44	9.35	9.49	0.24	
	2	10.25	10.21	10.35	0.70	187.5
gamma-Chlordane	1	7.37	7.34	7.48	0.12	
	2	8.29	8.25	8.39	0.21	68.0
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M95

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725017 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.87	4.80	4.90	0.054	
	2	5.58	5.49	5.59	0.098	80.8
delta-BHC	1	5.66	5.60	5.70	0.29	
	2	6.64	6.56	6.66	0.14	108.3
gamma-BHC (Lindane)	1	5.31	5.24	5.34	0.23	
	2	6.07	6.01	6.11	0.79	236.2
Aldrin	1	6.33	6.32	6.42	0.30	
	2	7.23	7.15	7.25	1.6	429.6
Heptachlor epoxide	1	7.20	7.17	7.31	0.33	
	2	8.09	7.97	8.11	0.64	96.0
Dieldrin	1	8.12	8.08	8.22	0.17	
	2	9.00	8.97	9.11	0.49	194.1
Endrin	1	8.51	8.41	8.55	1.1	
	2	9.44	9.42	9.56	1.5	36.1
Endosulfan II	1	8.85	8.74	8.88	0.34	
	2	9.80	9.73	9.87	1.1	232.4

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M95

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725017 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endosulfan sulfate	1	10.09	9.98	10.12	0.47	
	2	10.69	10.57	10.71	1.1	128.1
4,4'-DDT	1	8.95	8.91	9.05	1.1	
	2	10.08	10.02	10.16	0.73	53.3
Methoxychlor	1	9.64	9.61	9.75	1.0	
	2	11.00	10.88	11.02	0.44	131.4
Endrin ketone	1	10.42	10.35	10.49	0.58	
	2	11.29	11.22	11.36	0.19	207.1
Endrin aldehyde	1	9.43	9.35	9.49	0.16	
	2	10.25	10.21	10.35	0.90	477.9
gamma-Chlordane	1	7.43	7.34	7.48	0.051	
	2	8.29	8.25	8.39	0.46	817.3
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M96

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725018 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.88	4.80	4.90	0.17	
	2	5.57	5.49	5.59	0.11	47.7
beta-BHC	1	5.42	5.35	5.45	6.4	
	2	6.17	6.13	6.23	5.1	24.1
delta-BHC	1	5.65	5.60	5.70	2.5	
	2	6.62	6.56	6.66	1.5	60.2
gamma-BHC (Lindane)	1	5.30	5.24	5.34	0.63	
	2	6.07	6.01	6.11	0.52	20.5
Aldrin	1	6.33	6.32	6.42	8.1	
	2	7.23	7.15	7.25	3.1	156.8
Dieldrin	1	8.18	8.08	8.22	0.27	
	2	8.97	8.97	9.11	2.9	969.4
4,4'-DDE	1	7.69	7.64	7.78	2.2	
	2	8.75	8.70	8.84	5.2	131.8
Endrin	1	8.51	8.41	8.55	3.4	
	2	9.43	9.42	9.56	25.	639.5

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M96

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725018 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
4,4'-DDD	1	8.64	8.51	8.65	0.71	
	2	9.62	9.56	9.70	2.9	305.9
4,4'-DDT	1	8.95	8.91	9.05	3.6	
	2	10.07	10.02	10.16	2.4	54.7
Methoxychlor	1	9.62	9.61	9.75	0.29	
	2	10.96	10.88	11.02	1.6	447.3
Endrin ketone	1	10.42	10.35	10.49	3.8	
	2	11.23	11.22	11.36	1.6	144.5
Endrin aldehyde	1	9.44	9.35	9.49	4.0	
	2	10.25	10.21	10.35	1.1	269.2
gamma-Chlordane	1	7.43	7.34	7.48	0.14	
	2	8.28	8.25	8.39	0.81	470.0
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M97

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725019 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.88	4.80	4.90	0.066	
	2	5.57	5.49	5.59	0.069	4.0
beta-BHC	1	5.43	5.35	5.45	4.0	
	2	6.18	6.13	6.23	3.3	18.5
delta-BHC	1	5.65	5.60	5.70	1.1	
	2	6.62	6.56	6.66	1.1	2.5
Aldrin	1	6.33	6.32	6.42	4.1	
	2	7.24	7.15	7.25	2.2	89.8
Dieldrin	1	8.15	8.08	8.22	0.86	
	2	9.07	8.97	9.11	0.51	67.0
4,4'-DDE	1	7.69	7.64	7.78	0.40	
	2	8.75	8.70	8.84	1.5	281.4
Endrin	1	8.51	8.41	8.55	0.88	
	2	9.44	9.42	9.56	13.	999.9
4,4'-DDD	1	8.65	8.51	8.65	0.12	
	2	9.61	9.56	9.70	2.1	999.9

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M97

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725019 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
4,4'-DDT	1	8.95	8.91	9.05	0.81	
	2	10.06	10.02	10.16	1.4	76.3
Methoxychlor	1	9.64	9.61	9.75	2.6	
	2	10.96	10.88	11.02	2.2	15.7
Endrin ketone	1	10.42	10.35	10.49	2.6	
	2	11.23	11.22	11.36	0.99	157.0
Endrin aldehyde	1	9.43	9.35	9.49	0.19	
	2	10.29	10.21	10.35	3.3	999.9
gamma-Chlordane	1	7.36	7.34	7.48	0.30	
	2	8.34	8.25	8.39	2.3	659.0
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M98

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725020 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.89	4.80	4.90	0.13	
	2	5.57	5.49	5.59	0.095	40.5
Aldrin	1	6.34	6.32	6.42	0.24	
	2	7.24	7.15	7.25	1.4	475.1
Dieldrin	1	8.18	8.08	8.22	0.38	
	2	8.97	8.97	9.11	21.	999.9
4,4'-DDE	1	7.69	7.64	7.78	0.64	
	2	8.81	8.70	8.84	2.9	349.3
Endrin	1	8.51	8.41	8.55	24.	
	2	9.44	9.42	9.56	3.1	673.4
Endosulfan sulfate	1	10.08	9.98	10.12	1.5	
	2	10.63	10.57	10.71	0.70	114.3
4,4'-DDT	1	8.96	8.91	9.05	0.93	
	2	10.05	10.02	10.16	1.6	73.8
Endrin ketone	1	10.38	10.35	10.49	1.6	
	2	11.28	11.22	11.36	0.80	104.5

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M98

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725020 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endrin aldehyde	1	9.38	9.35	9.49	1.5	
	2	10.25	10.21	10.35	1.2	19.6
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M99

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725021 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
gamma-BHC (Lindane)	1	5.30	5.24	5.34	0.14	
	2	6.07	6.01	6.11	0.53	279.0
Aldrin	1	6.33	6.32	6.42	0.57	
	2	7.23	7.15	7.25	0.93	63.9
Dieldrin	1	8.17	8.08	8.22	0.29	
	2	8.97	8.97	9.11	0.72	150.2
Endrin	1	8.52	8.41	8.55	0.66	
	2	9.44	9.42	9.56	2.7	310.4
Endosulfan sulfate	1	10.09	9.98	10.12	0.18	
	2	10.70	10.57	10.71	0.87	390.4
4,4'-DDT	1	8.95	8.91	9.05	0.22	
	2	10.05	10.02	10.16	0.92	325.5
Methoxychlor	1	9.66	9.61	9.75	1.0	
	2	10.95	10.88	11.02	1.5	48.1
Endrin ketone	1	10.38	10.35	10.49	0.54	
	2	11.27	11.22	11.36	0.34	56.9

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M99

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725021 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endrin aldehyde	1	9.44	9.35	9.49	0.16	
	2	10.25	10.21	10.35	0.62	288.7
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 451343 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
delta-BHC	1	5.63	5.60	5.70	0.039	
	2	6.64	6.56	6.66	0.041	5.8
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PLCSS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 451344 Date(s) Analyzed: 06/23/2015 06/23/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
delta-BHC	1	5.63	5.60	5.70	0.046	
	2	6.64	6.56	6.66	0.025	80.5
gamma-BHC (Lindane)	1	5.26	5.24	5.34	0.99	
	2	6.05	6.01	6.11	1.1	15.1
Heptachlor epoxide	1	7.21	7.17	7.31	1.3	
	2	8.02	7.97	8.11	1.2	15.8
Dieldrin	1	8.12	8.08	8.22	2.3	
	2	9.01	8.97	9.11	2.6	12.7
4,4'-DDE	1	7.69	7.64	7.78	2.3	
	2	8.75	8.70	8.84	2.3	2.3
Endrin	1	8.46	8.41	8.55	2.6	
	2	9.46	9.42	9.56	2.3	9.2
Endosulfan sulfate	1	10.02	9.98	10.12	2.1	
	2	10.61	10.57	10.71	2.1	2.2
gamma-Chlordane	1	7.39	7.34	7.48	1.3	
	2	8.30	8.25	8.39	1.1	10.4

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:27:59
Operator	: sagers	Sample Name	: RESC11
Sample Number	: 004	Study	: 228313
AutoSampler	: HP7673A	Rack/Vial	: 0/4
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 19:17:32	Dilution Factor	: 1.00
		Cycle	: 2

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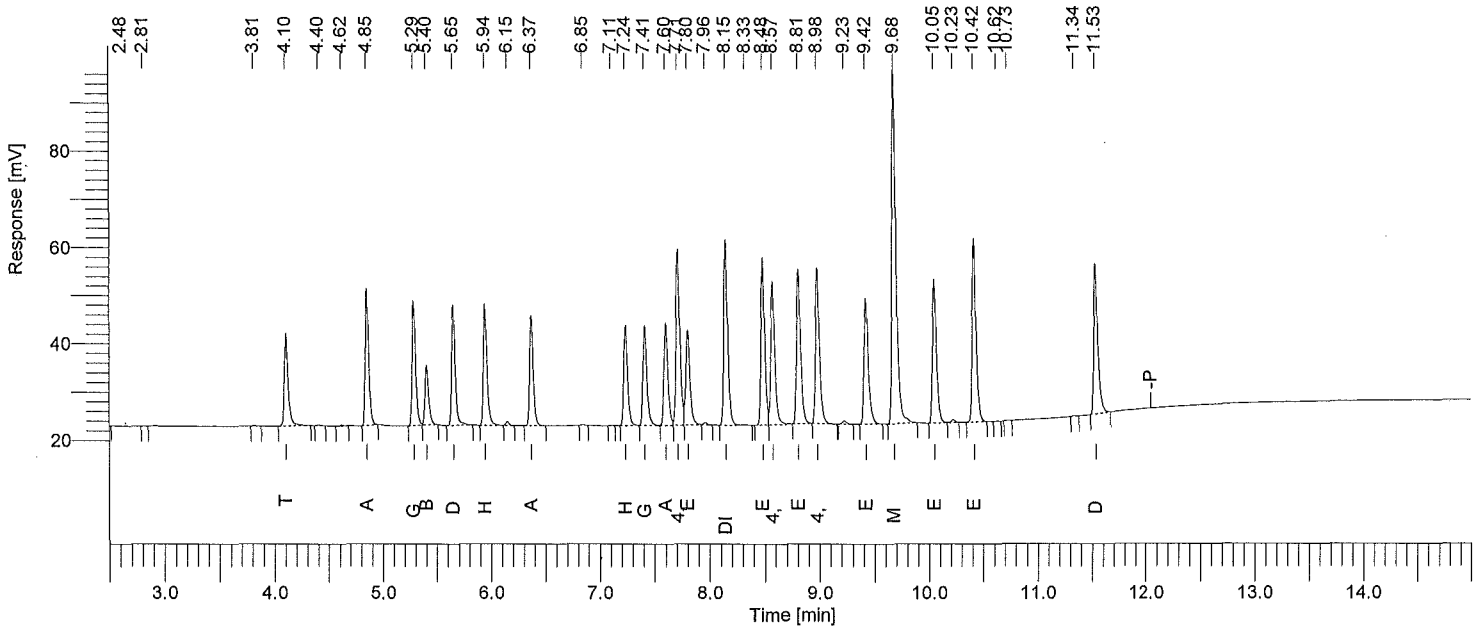

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.10	Tetrachloro-m-xylene	46833	0.0201851
4.85	alpha-BHC	61142	0.0202445
5.29	gamma-BHC	57213	0.0204710
5.40	beta-BHC	29028	0.0196816
5.65	delta-BHC	55602	0.0204747
5.94	Heptachlor	59468	0.0201045
6.37	Aldrin	53182	0.0204197
7.24	Heptachlor epoxide	50283	0.0202634
7.41	gamma-Chlordane	51431	0.0202033
7.60	alpha-Chlordane	52658	0.0202583
7.71	4,4'-DDE	88938	0.0412978
7.80	Endosulfan I	51602	0.0202125
8.15	Dieldrin	94763	0.0408749
8.48	Endrin	83775	0.0410118
8.57	4,4'-DDD	76270	0.0411068
8.81	Endosulfan II	81647	0.0404787
8.98	4,4'-DDT	82399	0.0403072
9.42	Endrin aldehyde	69903	0.0408741
9.68	Methoxychlor	197772	0.1935825
10.05	Endosulfan sulfate	73841	0.0400056
10.42	Endrin ketone	94036	0.0399838
11.53	Decachlorobiphenyl	78574	0.0395671

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:28:02
Operator	: sagers	Sample Name	: PEM11
Sample Number	: 005	Study	: 28317
AutoSampler	: HP7673A	Rack/Vial	: 0/5
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 19:38:40	Dilution Factor	: 1.00
		Cycle	: 3

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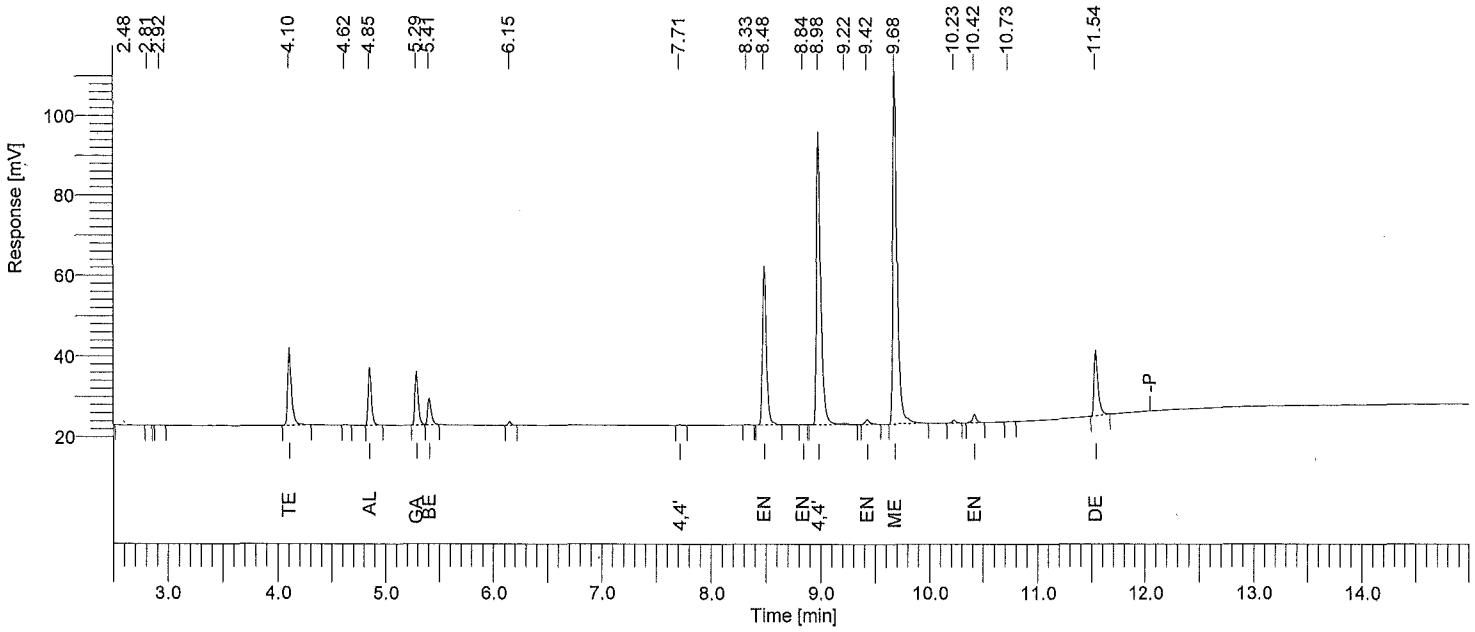

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.10	Tetrachloro-m-xylene	45493	0.0196079	0.0196079	0.02000	98.0
4.85	alpha-BHC	29182	0.0096626	0.0096626	0.01000	96.6
5.29	gamma-BHC	28032	0.0100299	0.0100299	0.01000	100.3
5.41	beta-BHC	14926	0.0101198	0.0101198	0.01000	101.2
5.65	delta-BHC	0	0.0000000	0.0000000	----------	------
5.95	Heptachlor	0	0.0000000	0.0000000	----------	------
6.37	Aldrin	0	0.0000000	0.0000000	----------	------
7.24	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
7.41	gamma-Chlordane	0	0.0000000	0.0000000	----------	------
7.60	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
7.71	4,4'-DDE	454	0.0002108	0.0002108	0.10000	0.2
7.80	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.15	Dieldrin	0	0.0000000	0.0000000	----------	------
8.48	Endrin	98248	0.0480970	0.0480970	0.05000	96.2
8.58	4,4'-DDD	0	0.0000000	0.0000000	----------	------
8.84	Endosulfan II	155	0.0000769	0.0000769	0.00000	------
8.98	4,4'-DDT	195294	0.0955325	0.0955325	0.10000	95.5
9.42	Endrin aldehyde	3704	0.0021658	0.0021658	0.05000	4.3
9.68	Methoxychlor	241151	0.2360424	0.2360424	0.25000	94.4
10.05	Endosulfan sulfate	0	0.0000000	0.0000000	----------	------
10.42	Endrin ketone	5367	0.0022819	0.0022819	0.05000	4.6
11.54	Decachlorobiphenyl	41135	0.0207141	0.0207141	0.02000	103.6
			0.4545416			795.0

06/23/2015 16:28:02 Result: \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_005.rst

Group Report For : 4,4'-DDT breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
7.71	4,4'-DDE	454	0.0002108	0.0002108	0.10000	0.2
8.58	4,4'-DDD	0	0.0000000	0.0000000	----------	------
			0.0002108			0.2

Group Report For : Endrin breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
9.42	Endrin aldehyde	3704	0.0021658	0.0021658	0.05000	4.3
10.42	Endrin ketone	5367	0.0022819	0.0022819	0.05000	4.6
			0.0044477			8.9

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:28:05
Operator	: sagers	Sample Name	: TOXAPH111
Sample Number	: 006	Study	: 28306
AutoSampler	: HP7673A	Rack/Vial	: 0/6
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 19:59:48	Dilution Factor	: 1.00
		Cycle	: 4

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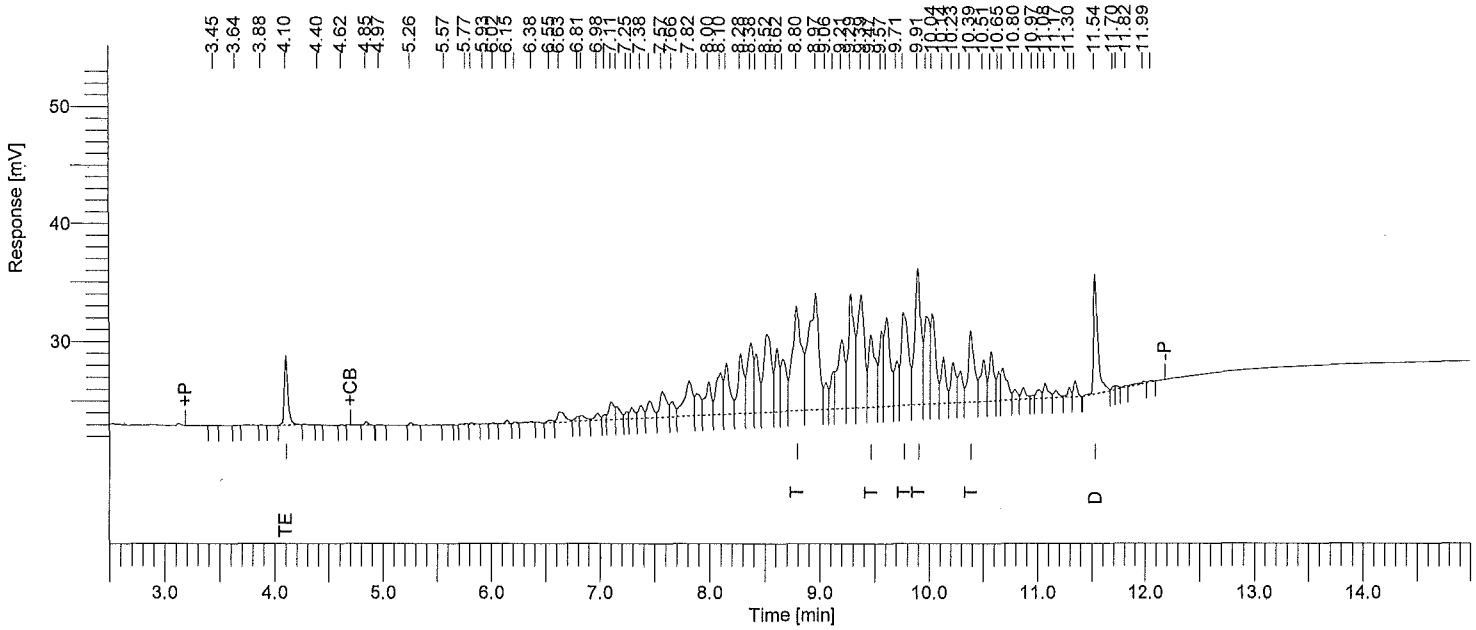

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.10	Tetrachloro-m-xylene	13302	0.0056412
8.80	Toxaphene-1	50692	0.5193067
9.47	Toxaphene-2	26950	0.4769347
9.77	Toxaphene-3	37358	0.4839228
9.91	Toxaphene-4	45272	0.5134624
10.39	Toxaphene-5	23688	0.4442797
11.54	Decachlorobiphenyl	27440	0.0115895

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:28:08
Operator	: sagers	Sample Name	: TOXAPH211
Sample Number	: 007	Study	: 28307
AutoSampler	: HP7673A	Rack/Vial	: 0/7
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 20:20:40	Dilution Factor	: 1.00
		Cycle	: 5

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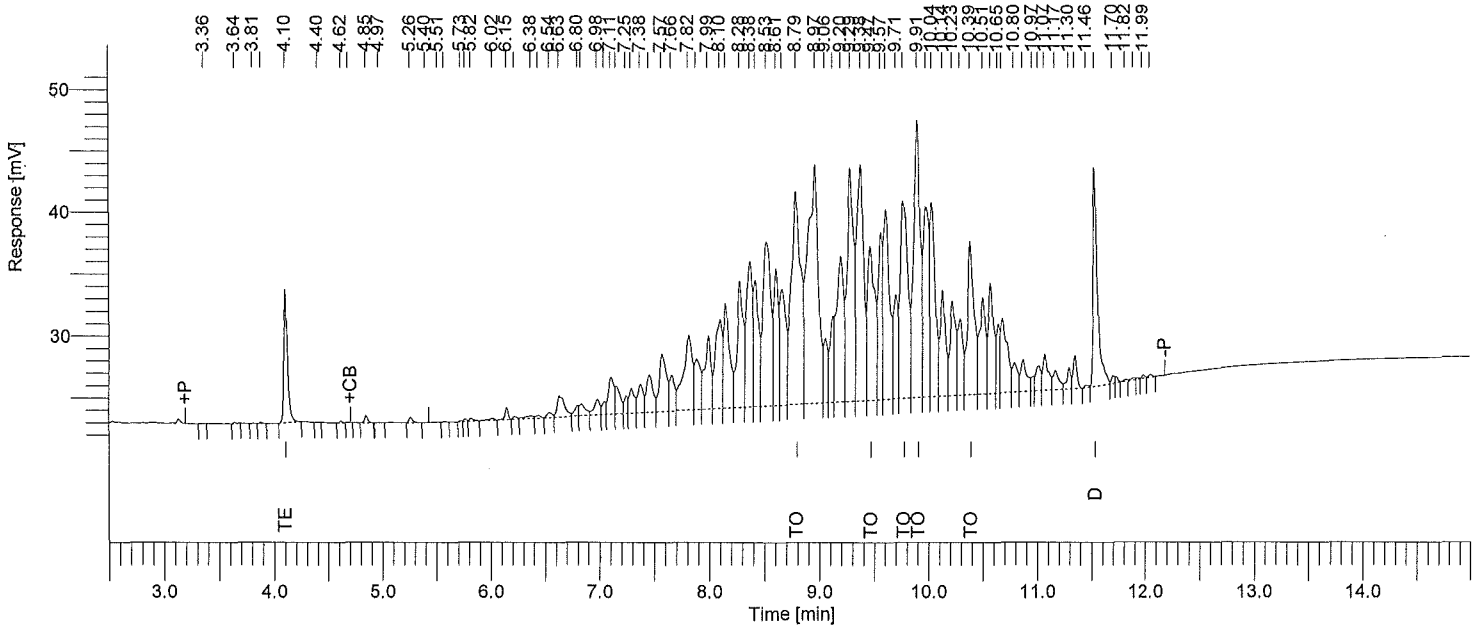

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.10	Tetrachloro-m-xylene	24772	0.0105054
8.79	Toxaphene-1	102903	1.0541777
9.47	Toxaphene-2	58606	1.0371341
9.78	Toxaphene-3	79628	1.0314678
9.91	Toxaphene-4	92576	1.0499720
10.39	Toxaphene-5	53213	0.9980387
11.54	Decachlorobiphenyl	49573	0.0209380

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:28:11
Operator	: sagers	Sample Name	: TOXAPH311
Sample Number	: 008	Study	: 28308
AutoSampler	: HP7673A	Rack/Vial	: 0/8
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 20:41:48	Dilution Factor	: 1.00
		Cycle	: 6

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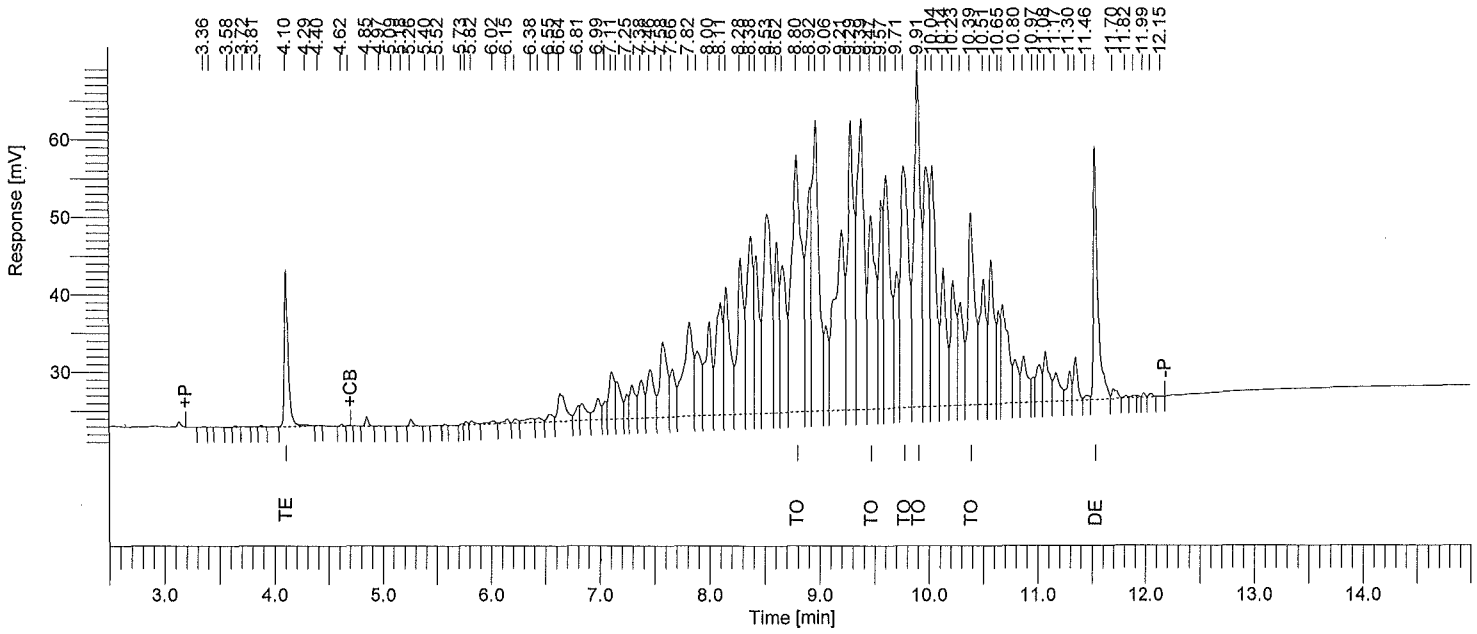

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.10	Tetrachloro-m-xylene	48313	0.0204888	0.0204888	0.0200000	102.4
8.80	Toxaphene-1	202349	2.0729356	2.0729356	2.0000000	103.6
9.47	Toxaphene-2	118378	2.0949110	2.0949110	2.0000000	104.7
9.78	Toxaphene-3	161266	2.0889716	2.0889716	2.0000000	104.4
9.91	Toxaphene-4	181683	2.0606043	2.0606043	2.0000000	103.0
10.39	Toxaphene-5	112094	2.1023782	2.1023782	2.0000000	105.1
11.54	Decachlorobiphenyl	92194	0.0389395	0.0389395	0.0400000	97.3

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:28:15
Operator	: sagers	Sample Name	: TOXAPH411
Sample Number	: 009	Study	: 28309
AutoSampler	: HP7673A	Rack/Vial	: 0/9
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 21:02:40	Dilution Factor	: 1.00
		Cycle	: 7

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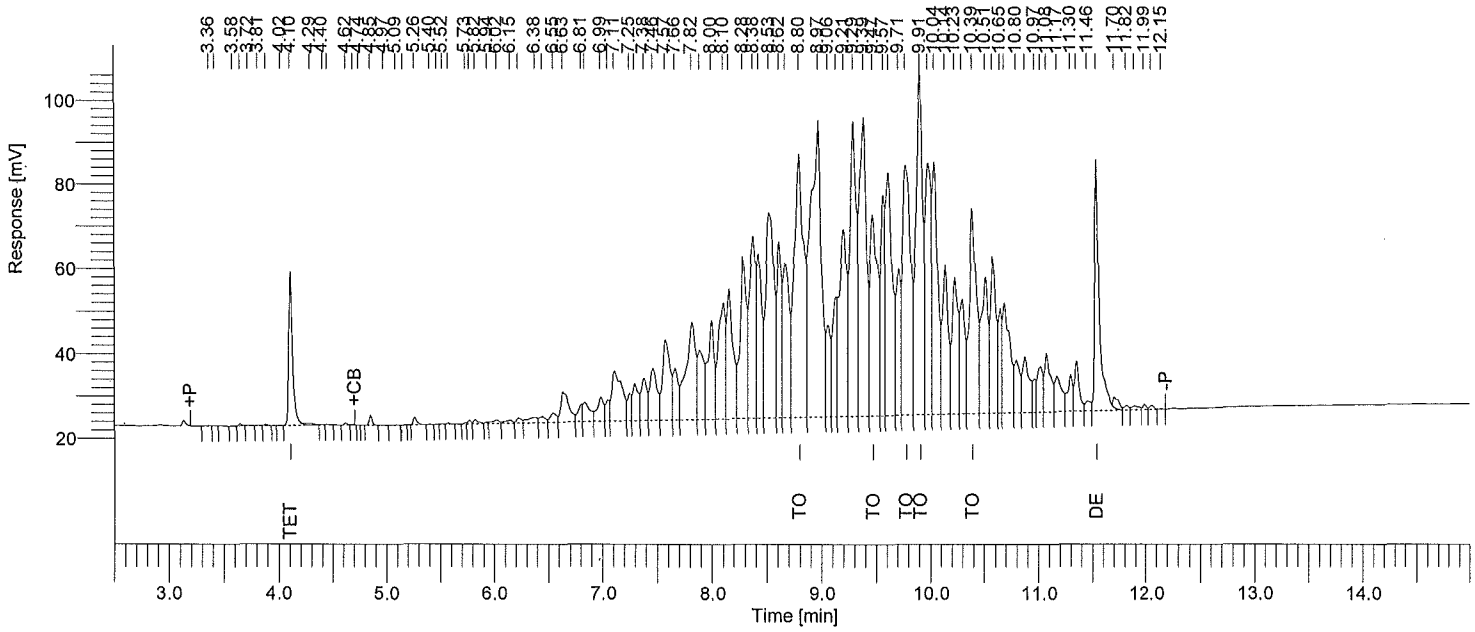

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.10	Tetrachloro-m-xylene	88903	0.0377027
8.80	Toxaphene-1	380919	3.9022781
9.47	Toxaphene-2	229611	4.0633846
9.78	Toxaphene-3	311506	4.0351058
9.91	Toxaphene-4	346103	3.9254236
10.39	Toxaphene-5	222671	4.1762930
11.54	Decachlorobiphenyl	179120	0.0756537

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:28:17
Operator	: sagers	Sample Name	: TOXAPH511
Sample Number	: 010	Study	: 28310
AutoSampler	: HP7673A	Rack/Vial	: 0/10
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 21:23:33	Dilution Factor	: 1.00
		Cycle	: 8

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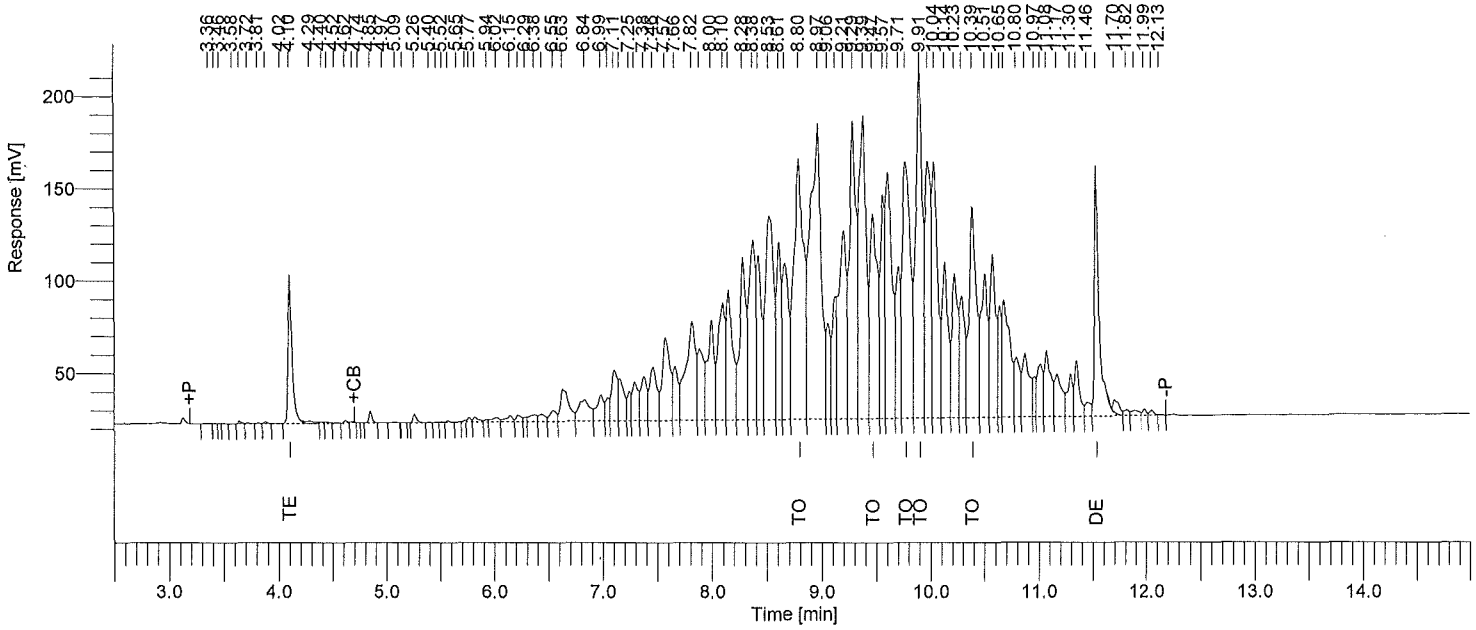

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.10	Tetrachloro-m-xylene	201425	0.0854217
8.80	Toxaphene-1	873818	8.9517168
9.47	Toxaphene-2	534387	9.4569476
9.78	Toxaphene-3	731402	9.4742436
9.91	Toxaphene-4	803617	9.1144503
10.39	Toxaphene-5	542849	10.1813946
11.54	Decachlorobiphenyl	414331	0.1749984

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:28:21
Operator	: sagers	Sample Name	: INDC111
Sample Number	: 011	Study	: 28311
AutoSampler	: HP7673A	Rack/Vial	: 0/11
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 21:44:25	Dilution Factor	: 1.00
		Cycle	: 9

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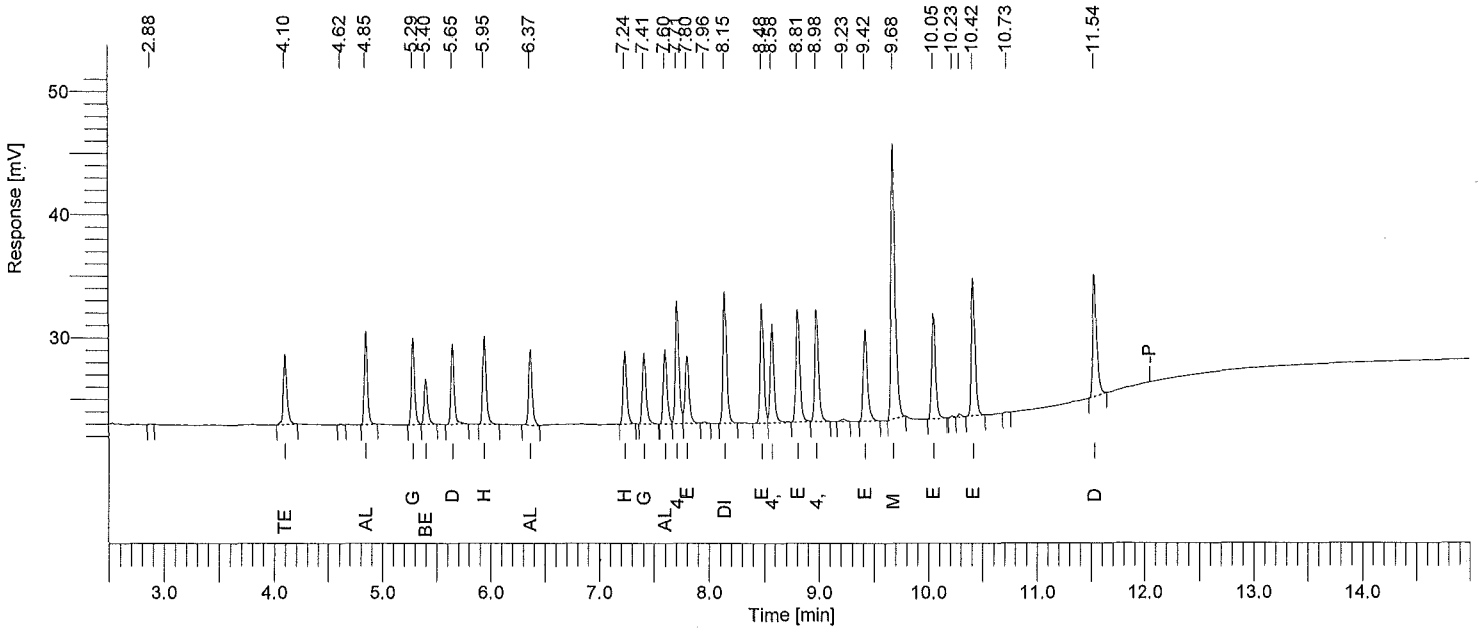

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.10	Tetrachloro-m-xylene	13082	0.0056386
4.85	alpha-BHC	14913	0.0049377
5.29	gamma-BHC	14464	0.0051753
5.40	beta-BHC	8174	0.0055419
5.65	delta-BHC	13536	0.0049845
5.95	Heptachlor	16252	0.0054945
6.37	Aldrin	13690	0.0052565
7.24	Heptachlor epoxide	13591	0.0054771
7.41	gamma-Chlordane	13908	0.0054634
7.60	alpha-Chlordane	14415	0.0055455
7.71	4,4'-DDE	22605	0.0104963
7.80	Endosulfan I	13800	0.0054056
8.15	Dieldrin	24860	0.0107230
8.48	Endrin	22345	0.0109387
8.58	4,4'-DDD	19380	0.0104450
8.81	Endosulfan II	22485	0.0111476
8.98	4,4'-DDT	22088	0.0108049
9.42	Endrin aldehyde	19541	0.0114262
9.68	Methoxychlor	58789	0.0575441
10.05	Endosulfan sulfate	20500	0.0111064
10.42	Endrin ketone	26561	0.0112936
11.54	Decachlorobiphenyl	24567	0.0123709

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:28:25
Operator	: sagers	Sample Name	: INDC211
Sample Number	: 012	Study	: 28312
AutoSampler	: HP7673A	Rack/Vial	: 0/12
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 22:05:13	Dilution Factor	: 1.00
		Cycle	: 10

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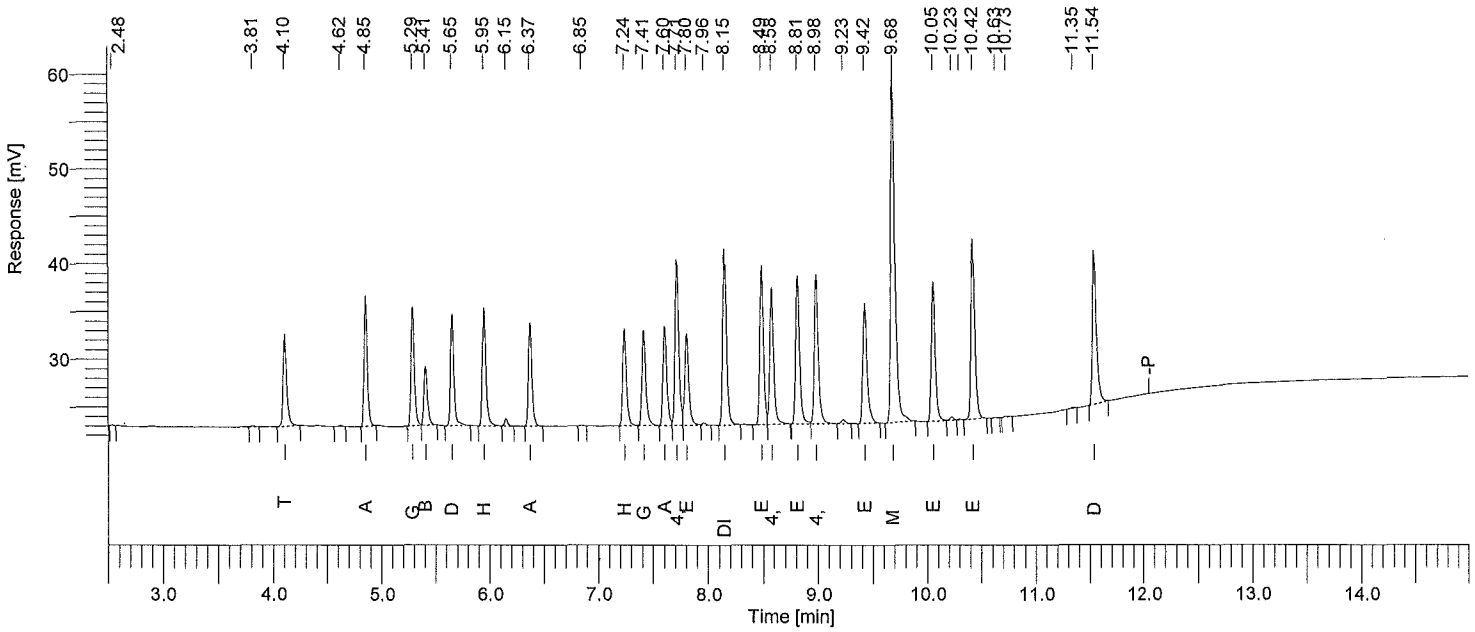

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.10	Tetrachloro-m-xylene	22174	0.0095572
4.85	alpha-BHC	27626	0.0091472
5.29	gamma-BHC	26352	0.0094288
5.41	beta-BHC	14140	0.0095868
5.65	delta-BHC	25268	0.0093044
5.95	Heptachlor	29020	0.0098108
6.37	Aldrin	24421	0.0093768
7.24	Heptachlor epoxide	24231	0.0097646
7.41	gamma-Chlordane	24534	0.0096376
7.60	alpha-Chlordane	25364	0.0097578
7.71	4,4'-DDE	40988	0.0190327
7.80	Endosulfan I	24575	0.0096259
8.15	Dieldrin	44901	0.0193672
8.49	Endrin	39318	0.0192480
8.58	4,4'-DDD	35063	0.0188980
8.81	Endosulfan II	39271	0.0194696
8.98	4,4'-DDT	39794	0.0194661
9.42	Endrin aldehyde	33769	0.0197458
9.68	Methoxychlor	101492	0.0993417
10.05	Endosulfan sulfate	35957	0.0194806
10.42	Endrin ketone	46419	0.0197371
11.54	Decachlorobiphenyl	40608	0.0204486

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:28:28
Operator	: sagers	Sample Name	: INDC311
Sample Number	: 013	Study	: 28313
AutoSampler	: HP7673A	Rack/Vial	: 0/13
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 22:26:17	Dilution Factor	: 1.00
		Cycle	: 11

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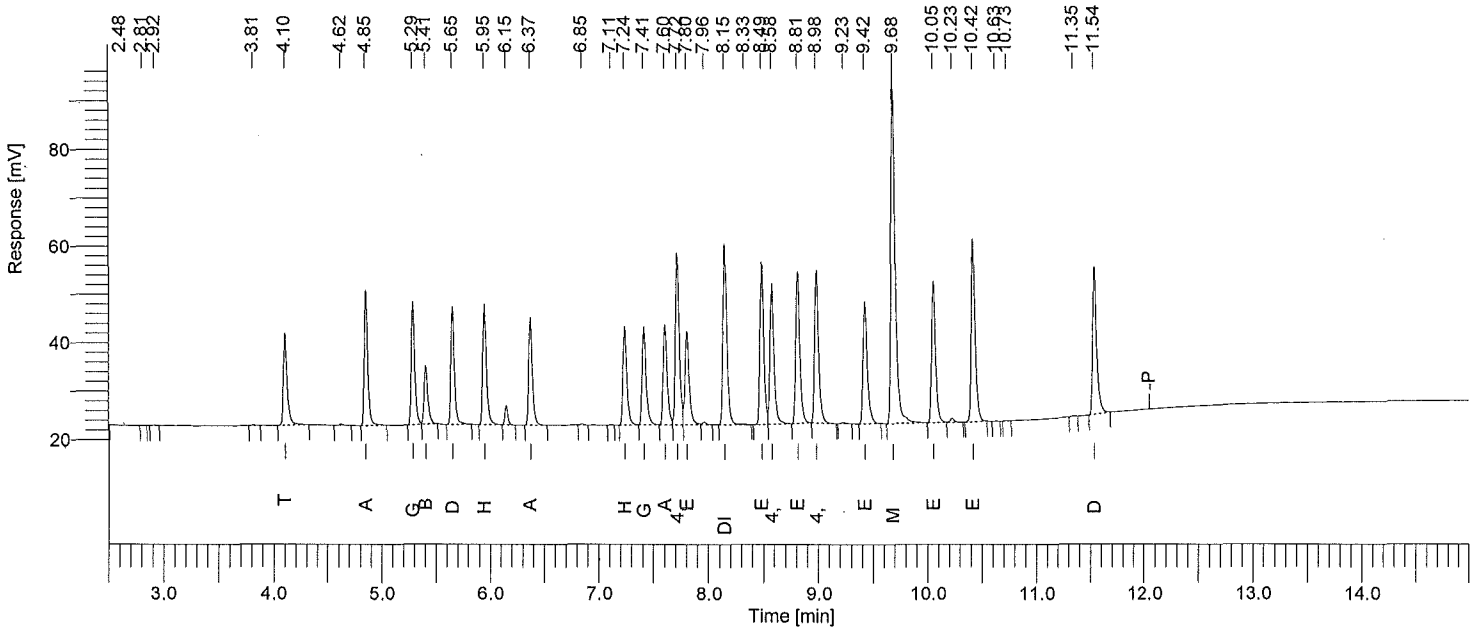

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.10	Tetrachloro-m-xylene	45645	0.0196730	0.0196730	0.0200000	98.4
4.85	alpha-BHC	61347	0.0203126	0.0203126	0.0200000	101.6
5.29	gamma-BHC	56105	0.0200745	0.0200745	0.0200000	100.4
5.41	beta-BHC	28658	0.0194304	0.0194304	0.0200000	97.2
5.65	delta-BHC	54417	0.0200384	0.0200384	0.0200000	100.2
5.95	Heptachlor	59410	0.0200852	0.0200852	0.0200000	100.4
6.37	Aldrin	52592	0.0201930	0.0201930	0.0200000	101.0
7.24	Heptachlor epoxide	49892	0.0201060	0.0201060	0.0200000	100.5
7.41	gamma-Chlordane	50812	0.0199598	0.0199598	0.0200000	99.8
7.60	alpha-Chlordane	52042	0.0200211	0.0200211	0.0200000	100.1
7.72	4,4'-DDE	86320	0.0400820	0.0400820	0.0400000	100.2
7.80	Endosulfan I	51265	0.0200807	0.0200807	0.0200000	100.4
8.15	Dieldrin	93818	0.0404670	0.0404670	0.0400000	101.2
8.49	Endrin	81069	0.0396871	0.0396871	0.0400000	99.2
8.58	4,4'-DDD	74232	0.0400088	0.0400088	0.0400000	100.0
8.81	Endosulfan II	80505	0.0399125	0.0399125	0.0400000	99.8
8.98	4,4'-DDT	80979	0.0396130	0.0396130	0.0400000	99.0
9.42	Endrin aldehyde	68441	0.0400191	0.0400191	0.0400000	100.0
9.68	Methoxychlor	202454	0.1981657	0.1981657	0.2000000	99.1
10.05	Endosulfan sulfate	73338	0.0397332	0.0397332	0.0400000	99.3
10.42	Endrin ketone	93669	0.0398276	0.0398276	0.0400000	99.6
11.54	Decachlorobiphenyl	77819	0.0391864	0.0391864	0.0400000	98.0

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:28:31
Operator	: sagers	Sample Name	: INDC411
Sample Number	: 014	Study	: 28314
AutoSampler	: HP7673A	Rack/Vial	: 0/14
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 22:47:05	Dilution Factor	: 1.00
		Cycle	: 12

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_014.rst
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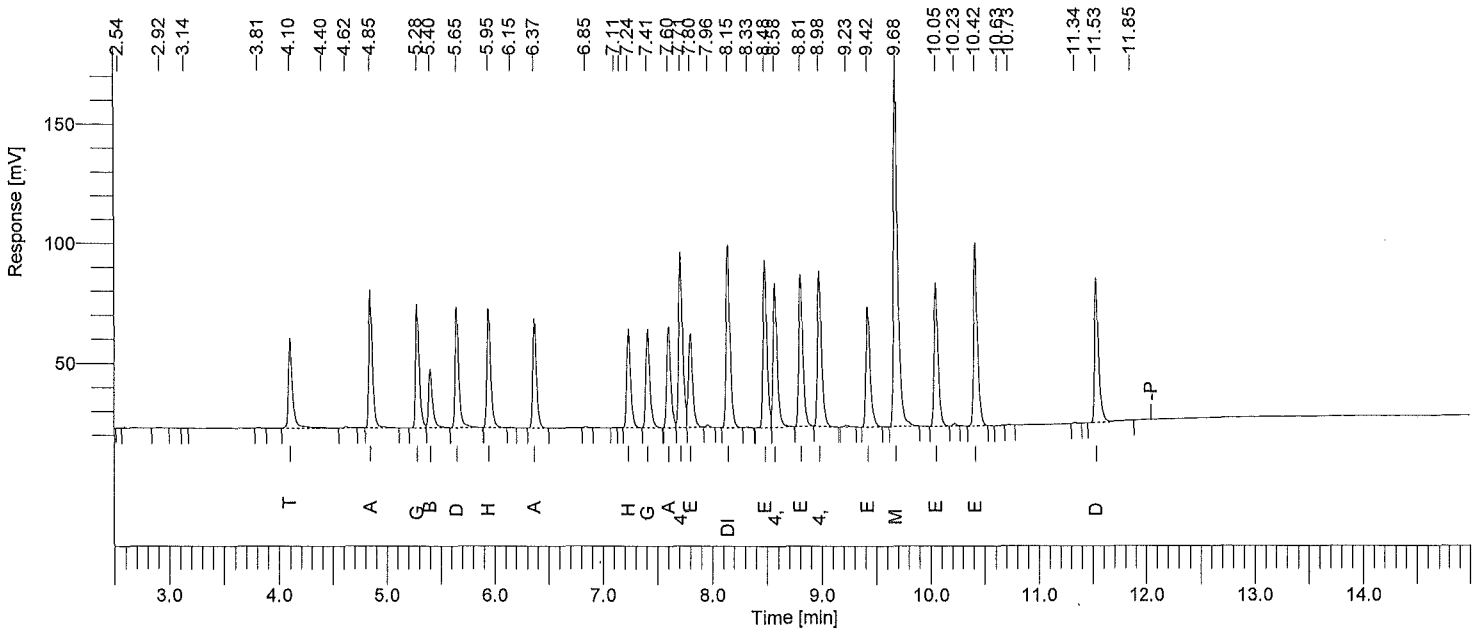

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.10	Tetrachloro-m-xylene	96217	0.0414700
4.85	alpha-BHC	132736	0.0439502
5.28	gamma-BHC	119569	0.0427819
5.40	beta-BHC	62001	0.0420374
5.65	delta-BHC	118609	0.0436763
5.95	Heptachlor	121480	0.0410695
6.37	Aldrin	110339	0.0423653
7.24	Heptachlor epoxide	102044	0.0411223
7.41	gamma-Chlordane	105227	0.0413352
7.60	alpha-Chlordane	106220	0.0408641
7.71	4,4'-DDE	182389	0.0846914
7.80	Endosulfan I	105386	0.0412797
8.15	Dieldrin	192558	0.0830572
8.48	Endrin	171005	0.0837149
8.58	4,4'-DDD	157159	0.0847033
8.81	Endosulfan II	164373	0.0814921
8.98	4,4'-DDT	169324	0.0828286
9.42	Endrin aldehyde	136845	0.0800166
9.68	Methoxychlor	405334	0.3967475
10.05	Endosulfan sulfate	150988	0.0818021
10.42	Endrin ketone	188857	0.0803012
11.53	Decachlorobiphenyl	151722	0.0764015

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:28:33
Operator	: sagers	Sample Name	: INDC511
Sample Number	: 015	Study	: 28315
AutoSampler	: HP7673A	Rack/Vial	: 0/15
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 23:07:51	Dilution Factor	: 1.00
		Cycle	: 13

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_015.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_015.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_std_a.rpt
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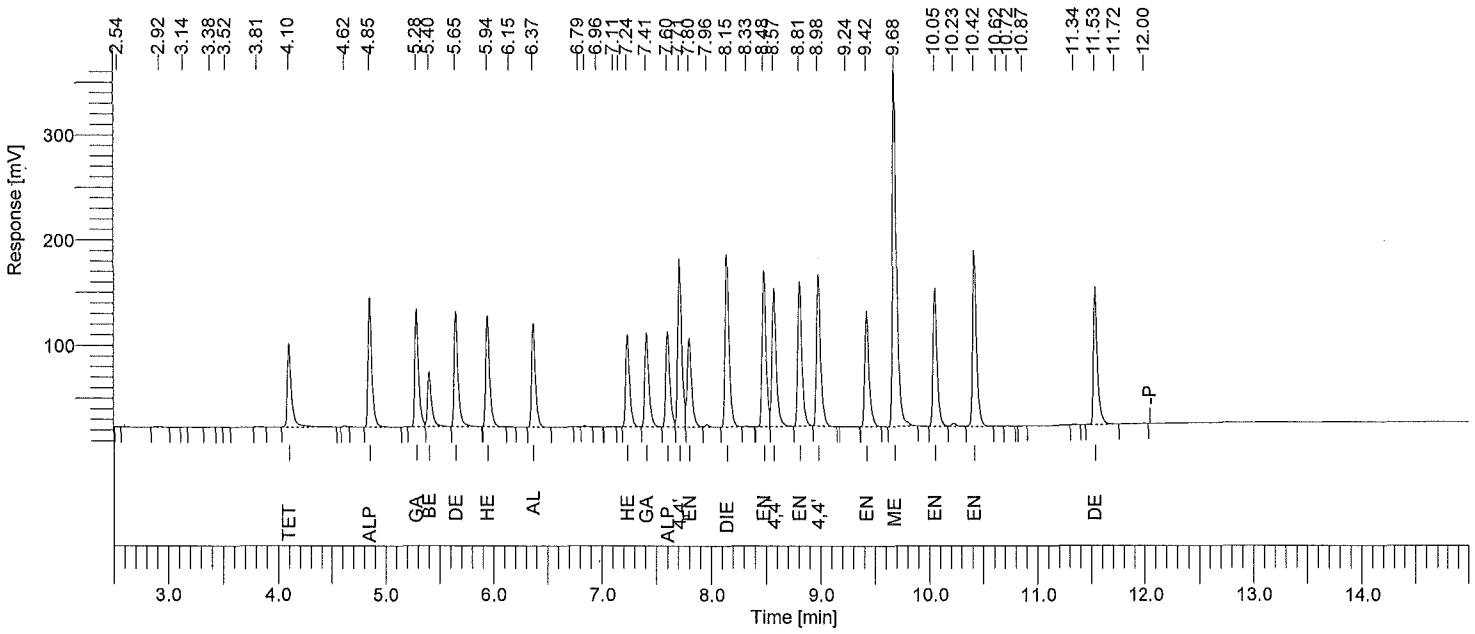

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.10	Tetrachloro-m-xylene	207923	0.0896157
4.85	alpha-BHC	296988	0.0983355
5.28	gamma-BHC	265170	0.0948782
5.40	beta-BHC	134287	0.0910476
5.65	delta-BHC	265813	0.0978822
5.94	Heptachlor	262968	0.0889030
6.37	Aldrin	245405	0.0942248
7.24	Heptachlor epoxide	222034	0.0894771
7.41	gamma-Chlordane	232213	0.0912182
7.60	alpha-Chlordane	231980	0.0892456
7.71	4,4'-DDE	404032	0.1876096
7.80	Endosulfan I	234940	0.0920261
8.15	Dieldrin	421689	0.1818895
8.48	Endrin	369778	0.1810233
8.57	4,4'-DDD	353114	0.1903164
8.81	Endosulfan II	361170	0.1790589
8.98	4,4'-DDT	376361	0.1841056
9.42	Endrin aldehyde	297373	0.1738807
9.68	Methoxychlor	891897	0.8730038
10.05	Endosulfan sulfate	332045	0.1798953
10.42	Endrin ketone	415965	0.1768668
11.53	Decachlorobiphenyl	320040	0.1611597

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:28:38
Operator	: sagers	Sample Name	: PEM21
Sample Number	: 017	Study	: 28317
AutoSampler	: HP7673A	Rack/Vial	: 0/17
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 23:49:29	Dilution Factor	: 1.00
		Cycle	: 15

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Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_017.rst
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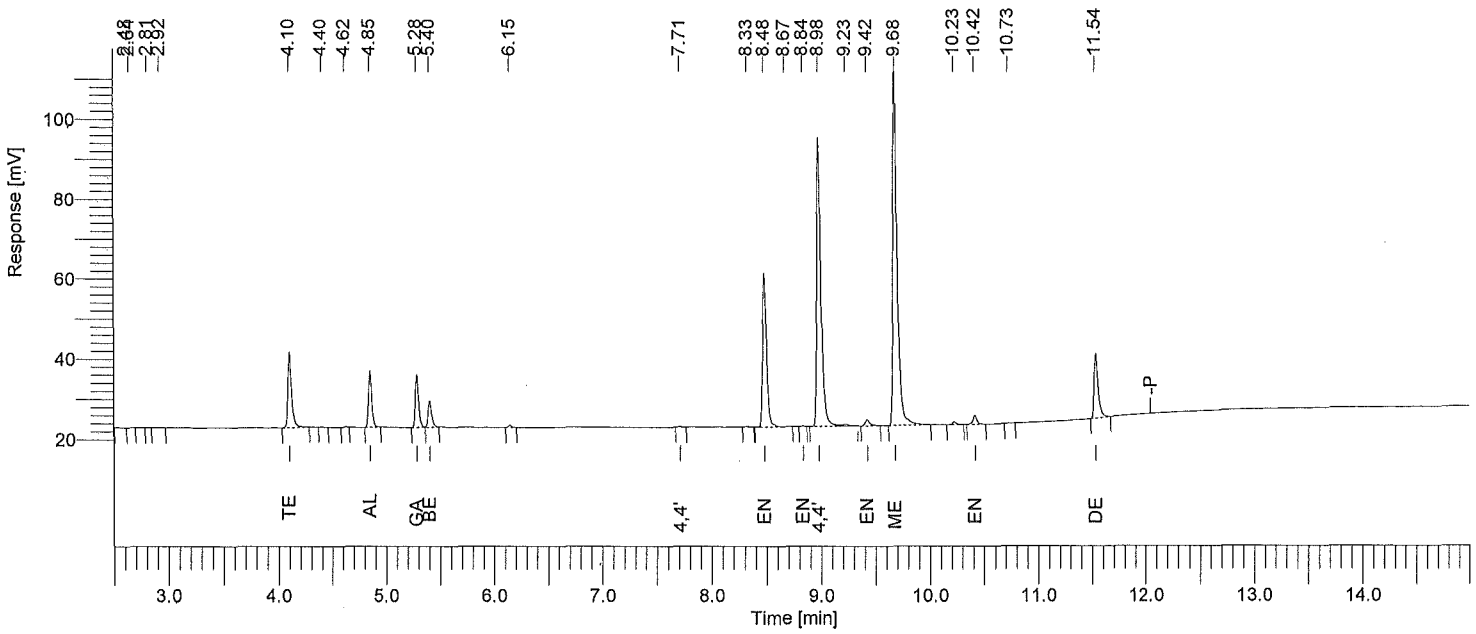

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.10	Tetrachloro-m-xylene	44387	0.0191309	0.0191309	0.02000	95.7
4.85	alpha-BHC	28579	0.0094628	0.0094628	0.01000	94.6
5.28	gamma-BHC	27505	0.0098415	0.0098415	0.01000	98.4
5.40	beta-BHC	14718	0.0099792	0.0099792	0.01000	99.8
5.65	delta-BHC	0	0.0000000	0.0000000	----------	------
5.95	Heptachlor	0	0.0000000	0.0000000	----------	------
6.37	Aldrin	0	0.0000000	0.0000000	----------	------
7.24	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
7.41	gamma-Chlordane	0	0.0000000	0.0000000	----------	------
7.60	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
7.71	4,4'-DDE	393	0.0001824	0.0001824	0.10000	0.2
7.80	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.15	Dieldrin	0	0.0000000	0.0000000	----------	------
8.48	Endrin	96587	0.0472837	0.0472837	0.05000	94.6
8.58	4,4'-DDD	0	0.0000000	0.0000000	----------	------
8.84	Endosulfan II	224	0.0001109	0.0001109	0.00000	------
8.98	4,4'-DDT	194052	0.0949250	0.0949250	0.10000	94.9
9.42	Endrin aldehyde	4619	0.0027008	0.0027008	0.05000	5.4
9.68	Methoxychlor	245463	0.2402636	0.2402636	0.25000	96.1
10.05	Endosulfan sulfate	0	0.0000000	0.0000000	----------	------
10.42	Endrin ketone	5909	0.0025124	0.0025124	0.05000	5.0
11.54	Decachlorobiphenyl	41205	0.0207493	0.0207493	0.02000	103.7
			0.4571423			788.4

06/23/2015 16:28:38 Result: \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_017.rst

Group Report For : 4,4'-DDT breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
7.71	4,4'-DDE	393	0.0001824	0.0001824	0.10000	0.2
8.58	4,4'-DDD	0	0.0000000	0.0000000	----------	------
			0.0001824			0.2

Group Report For : Endrin breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
9.42	Endrin aldehyde	4619	0.0027008	0.0027008	0.05000	5.4
10.42	Endrin ketone	5909	0.0025124	0.0025124	0.05000	5.0
			0.0052132			10.4

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/23/2015 14:52:02
Reprocess Number	: nasltw7087: 2219942		
Operator	: sagers		
Sample Number	: 069	Sample Name	: PEM71
AutoSampler	: HP7673A	Study	: 28317
Instrument Name	: GCE21	Rack/Vial	: 0/69
Instrument Serial #	: None	Channel	: A
Delay Time	: 0.00 min	A/D mV Range	: 1000
Sampling Rate	: 5.0000 pts/s	End Time	: 16.90 min
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 14:34:34	Dilution Factor	: 1.00
		Cycle	: 1

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_069.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_069.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_pem_a.rpt
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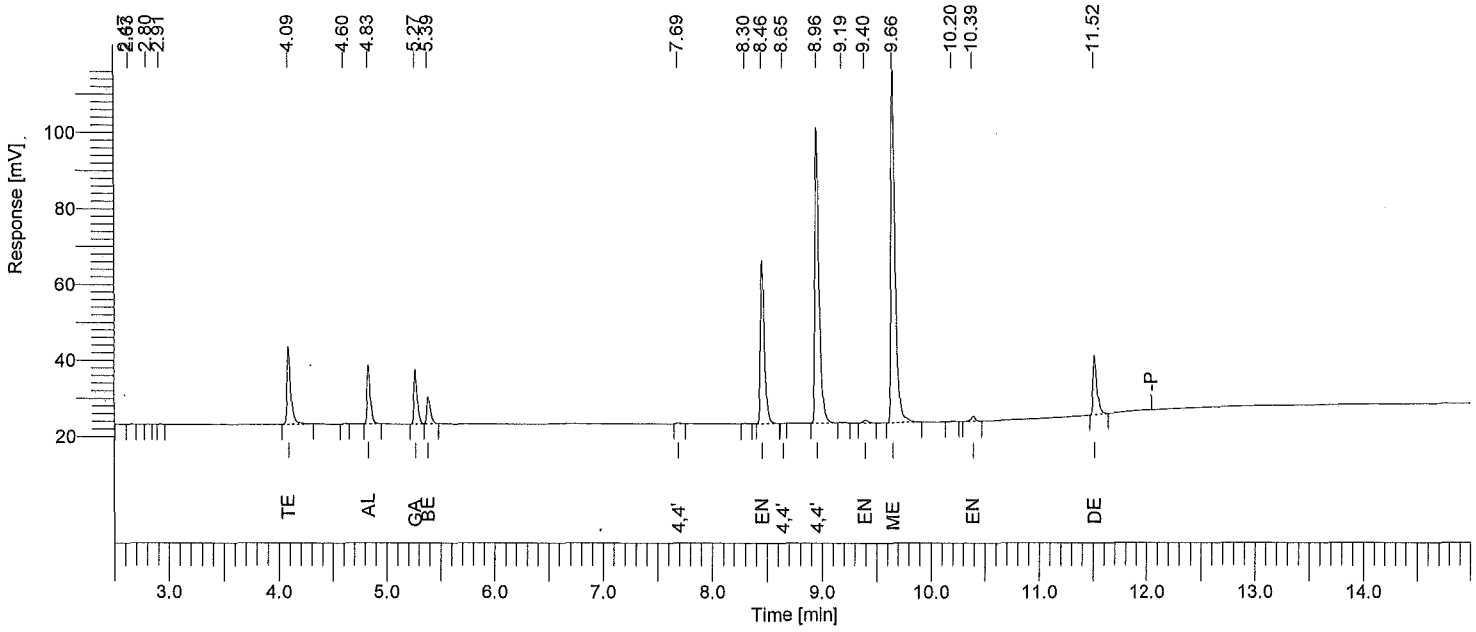

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.09	Tetrachloro-m-xylene	49076	0.0211520	0.0211520	0.02000	105.8
4.83	alpha-BHC	31735	0.0105076	0.0105076	0.01000	105.1
5.27	gamma-BHC	30407	0.0108795	0.0108795	0.01000	108.8
5.39	beta-BHC	15979	0.0108339	0.0108339	0.01000	108.3
5.65	delta-BHC	0	0.0000000	0.0000000	----------	------
5.95	Heptachlor	0	0.0000000	0.0000000	----------	------
6.37	Aldrin	0	0.0000000	0.0000000	----------	------
7.24	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
7.41	gamma-Chlordane	0	0.0000000	0.0000000	----------	------
7.60	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
7.69	4,4'-DDE	472	0.0002190	0.0002190	0.10000	0.2
7.80	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.15	Dieldrin	0	0.0000000	0.0000000	----------	------
8.46	Endrin	108153	0.0529457	0.0529457	0.05000	105.9
8.65	4,4'-DDD	105	0.0000566	0.0000566	0.10000	0.1
8.81	Endosulfan II	0	0.0000000	0.0000000	----------	------
8.96	4,4'-DDT	206838	0.1011794	0.1011794	0.10000	101.2
9.40	Endrin aldehyde	2327	0.0013608	0.0013608	0.05000	2.7
9.66	Methoxychlor	251216	0.2458946	0.2458946	0.25000	98.4
10.05	Endosulfan sulfate	0	0.0000000	0.0000000	----------	------
10.39	Endrin ketone	3612	0.0015358	0.0015358	0.05000	3.1
11.52	Decachlorobiphenyl	38577	0.0194258	0.0194258	0.02000	97.1
			0.4759909			836.6

06/23/2015 14:52:02 Result: \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_069.rst

Group Report For : 4,4'-DDT breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
7.69	4,4'-DDE	472	0.0002190	0.0002190	0.10000	0.2
8.65	4,4'-DDD	105	0.0000566	0.0000566	0.10000	0.1
			0.0002756			0.3

Group Report For : Endrin breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
9.40	Endrin aldehyde	2327	0.0013608	0.0013608	0.05000	2.7
10.39	Endrin ketone	3612	0.0015358	0.0015358	0.05000	3.1
			0.0028966			5.8

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:02:11
Operator	: sagers	Sample Name	: INDC381
Sample Number	: 095	Study	: 28313
AutoSampler	: HP7673A	Rack/Vial	: 0/95
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/23/2015 23:40:01	Cycle	: 3

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Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som12_ccv_a.rpt
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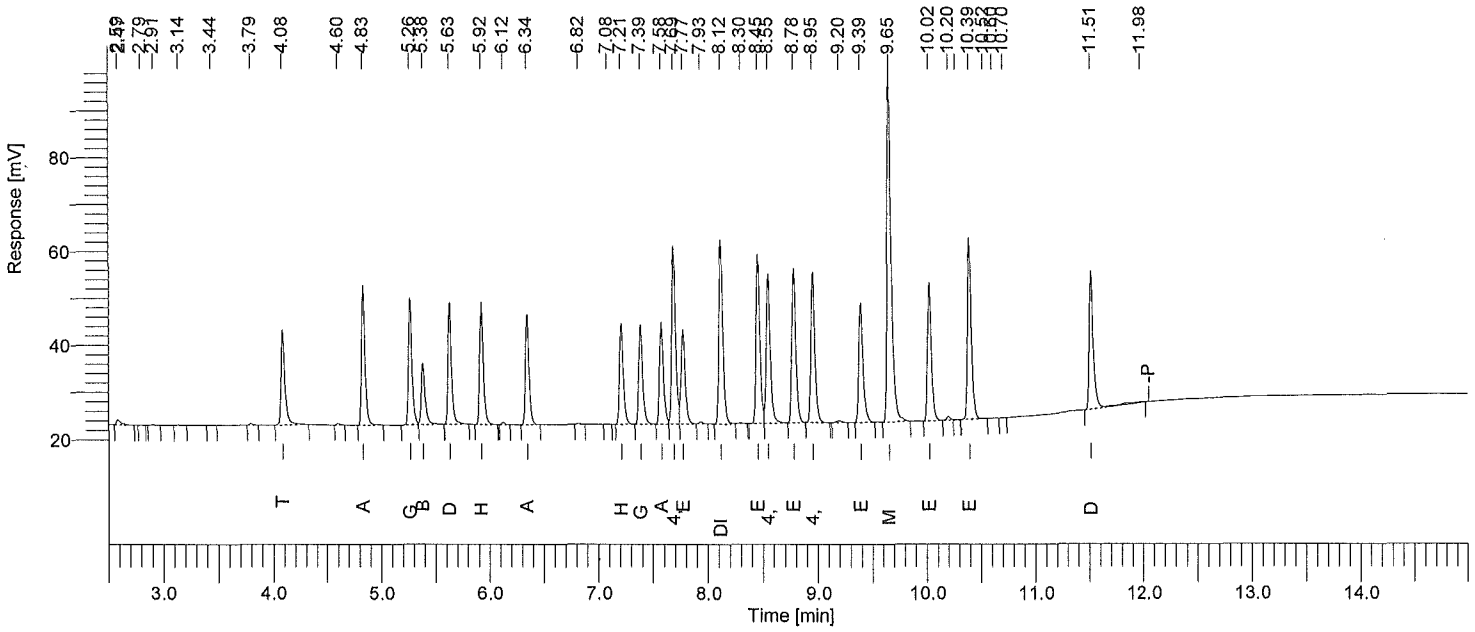

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.08	Tetrachloro-m-xylene	49104	0.0211640	0.0211640	0.0200000	105.8
4.83	alpha-BHC	64932	0.0214997	0.0214997	0.0200000	107.5
5.26	gamma-BHC	60081	0.0214971	0.0214971	0.0200000	107.5
5.38	beta-BHC	32168	0.0218104	0.0218104	0.0200000	109.1
5.63	delta-BHC	58283	0.0214621	0.0214621	0.0200000	107.3
5.92	Heptachlor	61569	0.0208149	0.0208149	0.0200000	104.1
6.34	Aldrin	54263	0.0208346	0.0208346	0.0200000	104.2
7.21	Heptachlor epoxide	51492	0.0207508	0.0207508	0.0200000	103.8
7.39	gamma-Chlordane	52430	0.0205956	0.0205956	0.0200000	103.0
7.58	alpha-Chlordane	53606	0.0206228	0.0206228	0.0200000	103.1
7.69	4,4'-DDE	91777	0.0426162	0.0426162	0.0400000	106.5
7.77	Endosulfan I	51763	0.0202757	0.0202757	0.0200000	101.4
8.12	Dieldrin	96334	0.0415523	0.0415523	0.0400000	103.9
8.45	Endrin	87220	0.0426980	0.0426980	0.0400000	106.7
8.55	4,4'-DDD	80723	0.0435070	0.0435070	0.0400000	108.8
8.78	Endosulfan II	82562	0.0409320	0.0409320	0.0400000	102.3
8.95	4,4'-DDT	80896	0.0395723	0.0395723	0.0400000	98.9
9.39	Endrin aldehyde	67785	0.0396354	0.0396354	0.0400000	99.1
9.65	Methoxychlor	203928	0.1996077	0.1996077	0.2000000	99.8
10.02	Endosulfan sulfate	72605	0.0393361	0.0393361	0.0400000	98.3
10.39	Endrin ketone	95005	0.0403960	0.0403960	0.0400000	101.0
11.51	Decachlorobiphenyl	73487	0.0370053	0.0370053	0.0400000	92.5

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:28:43
Operator	: sagers	Sample Name	: RESC12
Sample Number	: 004	Study	: 228313
AutoSampler	: HP7673A	Rack/Vial	: 0/4
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 19:38:40	Dilution Factor	: 1.00
		Cycle	: 3

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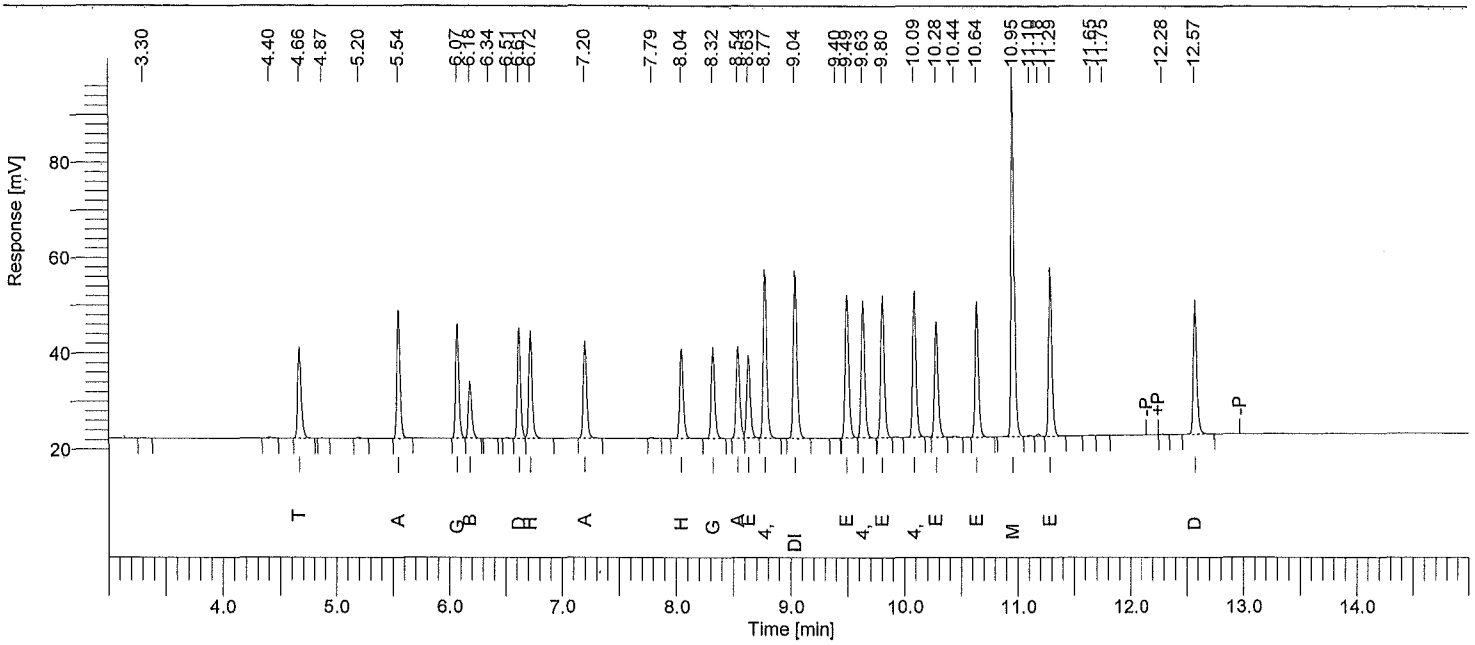

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.66	Tetrachloro-m-xylene	40395	0.0202915
5.54	alpha-BHC	51977	0.0208046
6.07	gamma-BHC	47147	0.0206360
6.18	beta-BHC	24821	0.0203843
6.61	delta-BHC	45270	0.0207483
6.72	Heptachlor	46492	0.0200334
7.20	Aldrin	42411	0.0207235
8.04	Heptachlor epoxide	40115	0.0204785
8.32	gamma-Chlordane	41206	0.0202709
8.54	alpha-Chlordane	41792	0.0204192
8.63	Endosulfan I	37501	0.0204385
8.77	4,4'-DDE	74637	0.0411329
9.04	Dieldrin	77518	0.0410496
9.49	Endrin	66183	0.0403526
9.63	4,4'-DDD	60282	0.0407588
9.80	Endosulfan II	65296	0.0406329
10.09	4,4'-DDT	63052	0.0395889
10.28	Endrin aldehyde	52435	0.0409778
10.64	Endosulfan sulfate	58453	0.0404152
10.95	Methoxychlor	143566	0.1863195
11.29	Endrin ketone	71995	0.0399766
12.57	Decachlorobiphenyl	61605	0.0395571

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:28:46
Operator	: sagers	Sample Name	: PEM12
Sample Number	: 005	Study	: 28317
AutoSampler	: HP7673A	Rack/Vial	: 0/5
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 19:59:48	Dilution Factor	: 1.00
		Cycle	: 4

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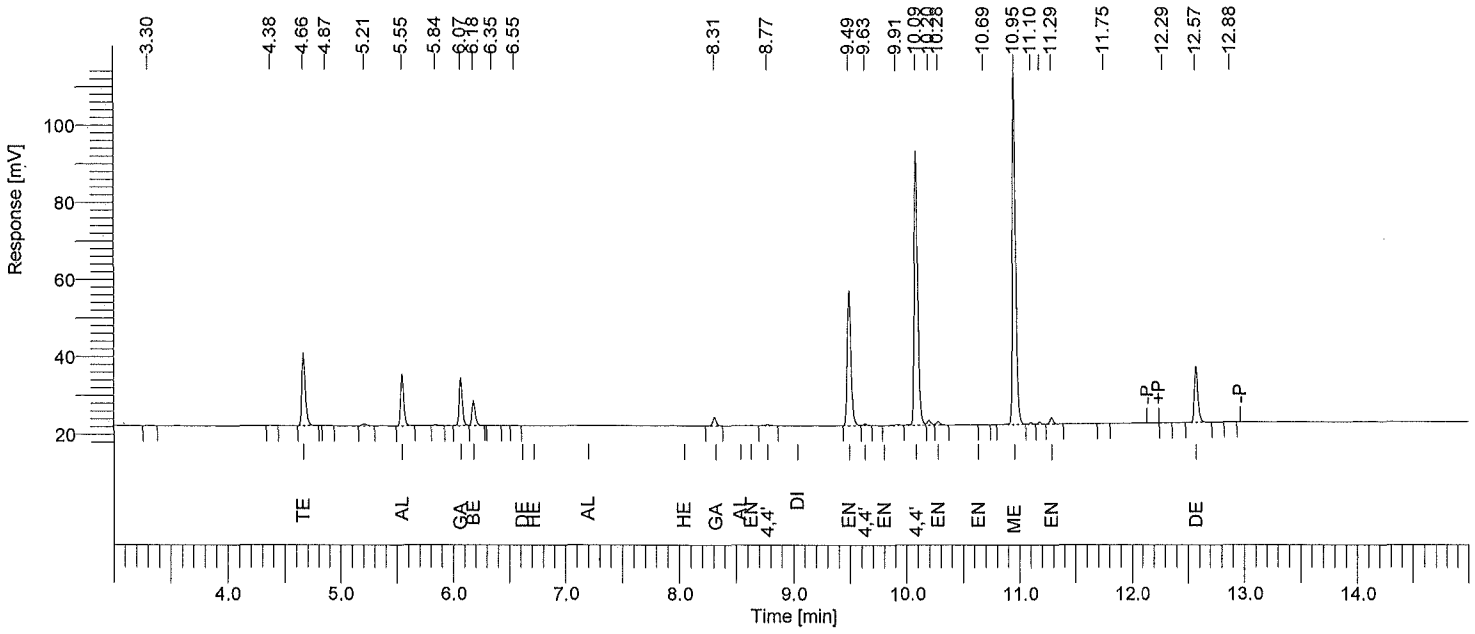

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.66	Tetrachloro-m-xylene	40083	0.0201345	0.0201345	0.02000	100.7
5.55	alpha-BHC	25500	0.0102068	0.0102068	0.01000	102.1
6.07	gamma-BHC	23896	0.0104593	0.0104593	0.01000	104.6
6.18	beta-BHC	13274	0.0109014	0.0109014	0.01000	109.0
6.61	delta-BHC	0	0.0000000	0.0000000	----------	------
6.72	Heptachlor	0	0.0000000	0.0000000	----------	------
7.20	Aldrin	0	0.0000000	0.0000000	----------	------
8.04	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
8.31	gamma-Chlordane	4599	0.0022624	0.0022624	0.00000	------
8.54	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
8.63	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.77	4,4'-DDE	787	0.0004336	0.0004336	0.10000	0.4
9.03	Dieldrin	0	0.0000000	0.0000000	----------	------
9.49	Endrin	78508	0.0478670	0.0478670	0.05000	95.7
9.63	4,4'-DDD	987	0.0006673	0.0006673	0.10000	0.7
9.80	Endosulfan II	0	0.0000000	0.0000000	----------	------
10.09	4,4'-DDT	149906	0.0941221	0.0941221	0.10000	94.1
10.28	Endrin aldehyde	2037	0.0015916	0.0015916	0.05000	3.2
10.69	Endosulfan sulfate	134	0.0000928	0.0000928	0.00000	------
10.95	Methoxychlor	177816	0.2307695	0.2307695	0.25000	92.3
11.29	Endrin ketone	3748	0.0020813	0.0020813	0.05000	4.2
12.57	Decachlorobiphenyl	32283	0.0207291	0.0207291	0.02000	103.6
			0.4523190			810.6

06/23/2015 16:28:46 Result: \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_005.rst

Group Report For : 4,4'-DDT breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
8.77	4,4'-DDE	787	0.0004336	0.0004336	0.10000	0.4
9.63	4,4'-DDD	987	0.0006673	0.0006673	0.10000	0.7
			0.0011009			1.1

Group Report For : Endrin breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
10.28	Endrin aldehyde	2037	0.0015916	0.0015916	0.05000	3.2
11.29	Endrin ketone	3748	0.0020813	0.0020813	0.05000	4.2
			0.0036729			7.3

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:28:49
Operator	: sagers	Sample Name	: TOXAPH112
Sample Number	: 006	Study	: 28306
AutoSampler	: HP7673A	Rack/Vial	: 0/6
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 20:20:40	Dilution Factor	: 1.00
		Cycle	: 5

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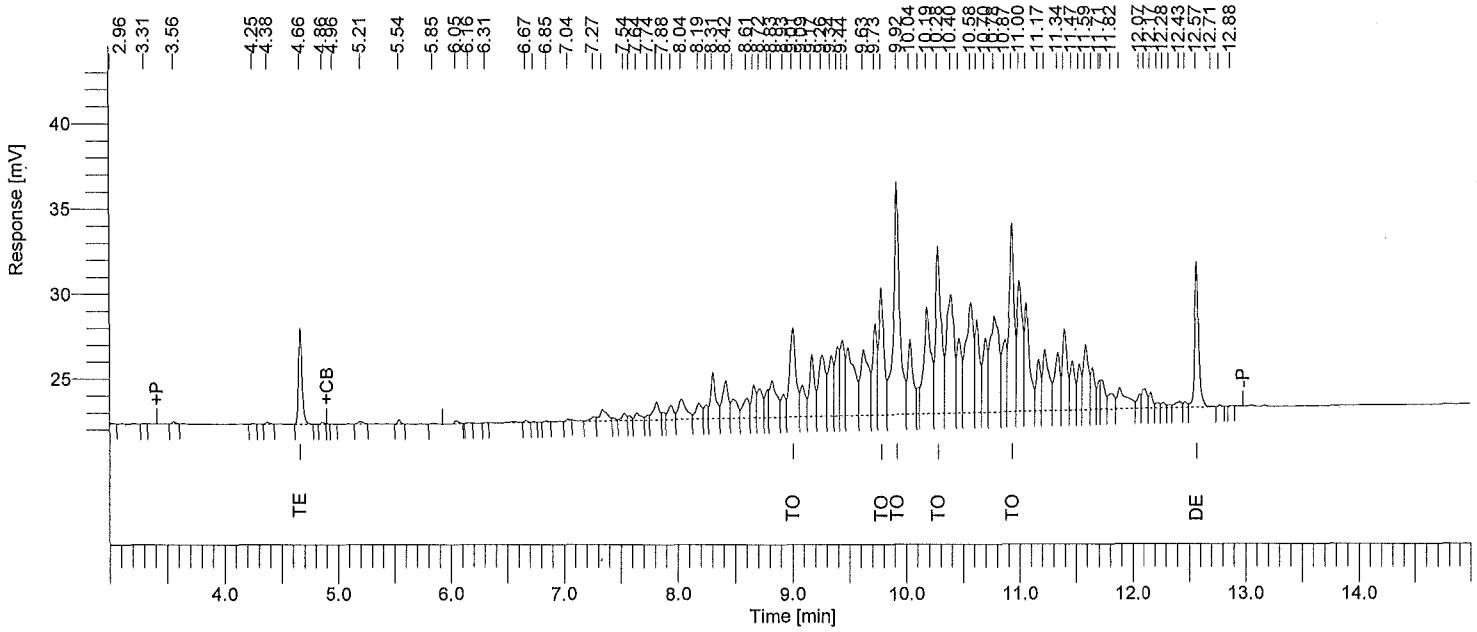

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.66	Tetrachloro-m-xylene	11897	0.0057301
9.01	Toxaphene-1	19777	0.5269407
9.78	Toxaphene-2	23618	0.5279030
9.92	Toxaphene-3	52381	0.5291506
10.28	Toxaphene-4	33859	0.5210913
10.94	Toxaphene-5	34959	0.5289034
12.57	Decachlorobiphenyl	20807	0.0114968

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:28:51
Operator	: sagers	Sample Name	: TOXAPH212
Sample Number	: 007	Study	: 28307
AutoSampler	: HP7673A	Rack/Vial	: 0/7
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/19/2015 20:41:48	Cycle	: 6

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Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_std_b.rpt
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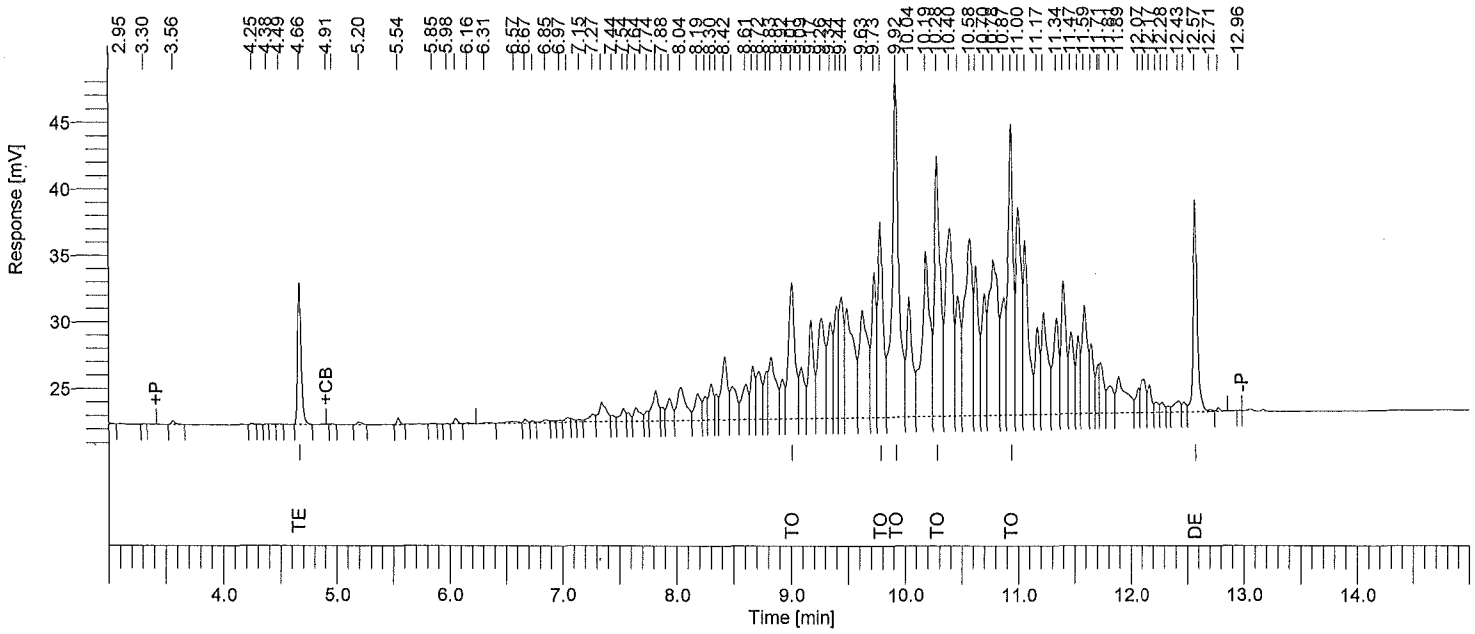

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.66	Tetrachloro-m-xylene	22607	0.0108888
9.01	Toxaphene-1	39848	1.0617121
9.78	Toxaphene-2	47516	1.0620929
9.92	Toxaphene-3	104516	1.0558136
10.28	Toxaphene-4	68418	1.0529347
10.94	Toxaphene-5	69468	1.0510071
12.57	Decachlorobiphenyl	38841	0.0214618

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:28:54
Operator	: sagers	Sample Name	: TOXAPH312
Sample Number	: 008	Study	: 28308
AutoSampler	: HP7673A	Rack/Vial	: 0/8
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 21:02:40	Dilution Factor	: 1.00
		Cycle	: 7

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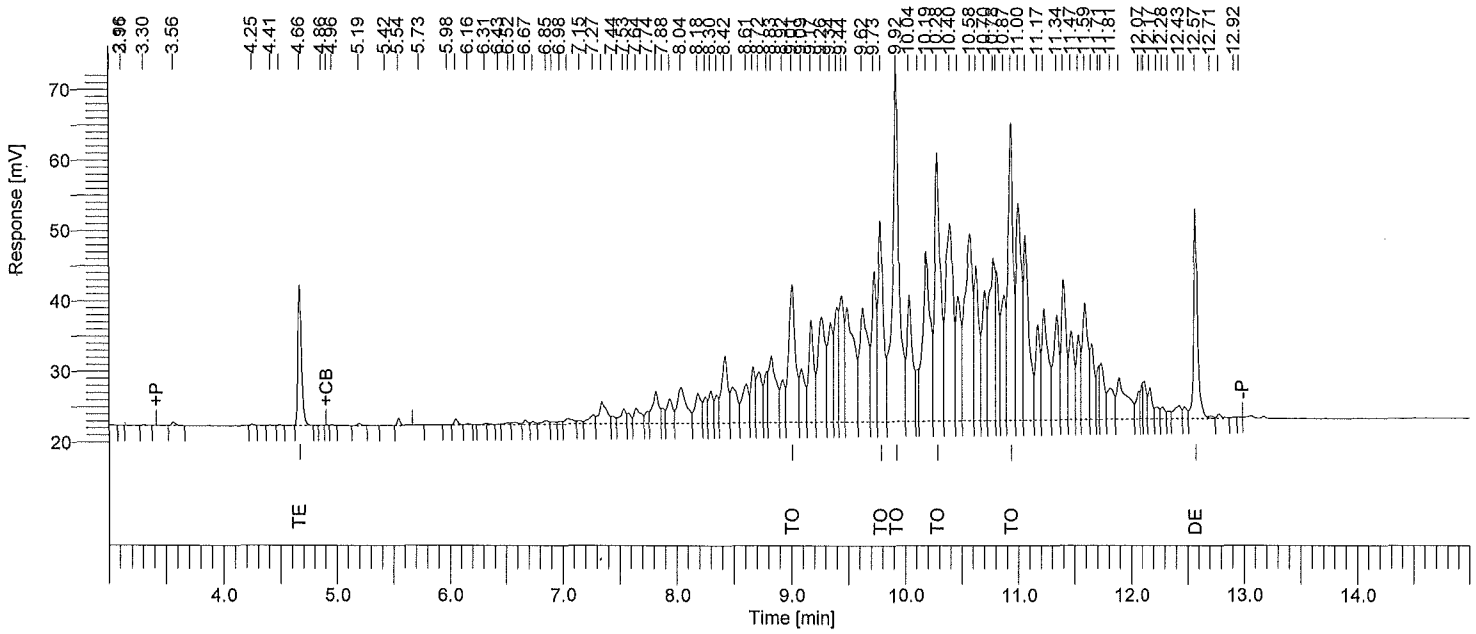

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.66	Tetrachloro-m-xylene	42480	0.0204606	0.0204606	0.0200000	102.3
9.01	Toxaphene-1	78475	2.0908774	2.0908774	2.0000000	104.5
9.78	Toxaphene-2	92936	2.0773279	2.0773279	2.0000000	103.9
9.92	Toxaphene-3	205101	2.0719265	2.0719265	2.0000000	103.6
10.28	Toxaphene-4	134973	2.0772188	2.0772188	2.0000000	103.9
10.94	Toxaphene-5	136397	2.0636059	2.0636059	2.0000000	103.2
12.57	Decachlorobiphenyl	73481	0.0406025	0.0406025	0.0400000	101.5

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:28:57
Operator	: sagers	Sample Name	: TOXAPH412
Sample Number	: 009	Study	: 28309
AutoSampler	: HP7673A	Rack/Vial	: 0/9
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/19/2015 21:23:33	Cycle	: 8

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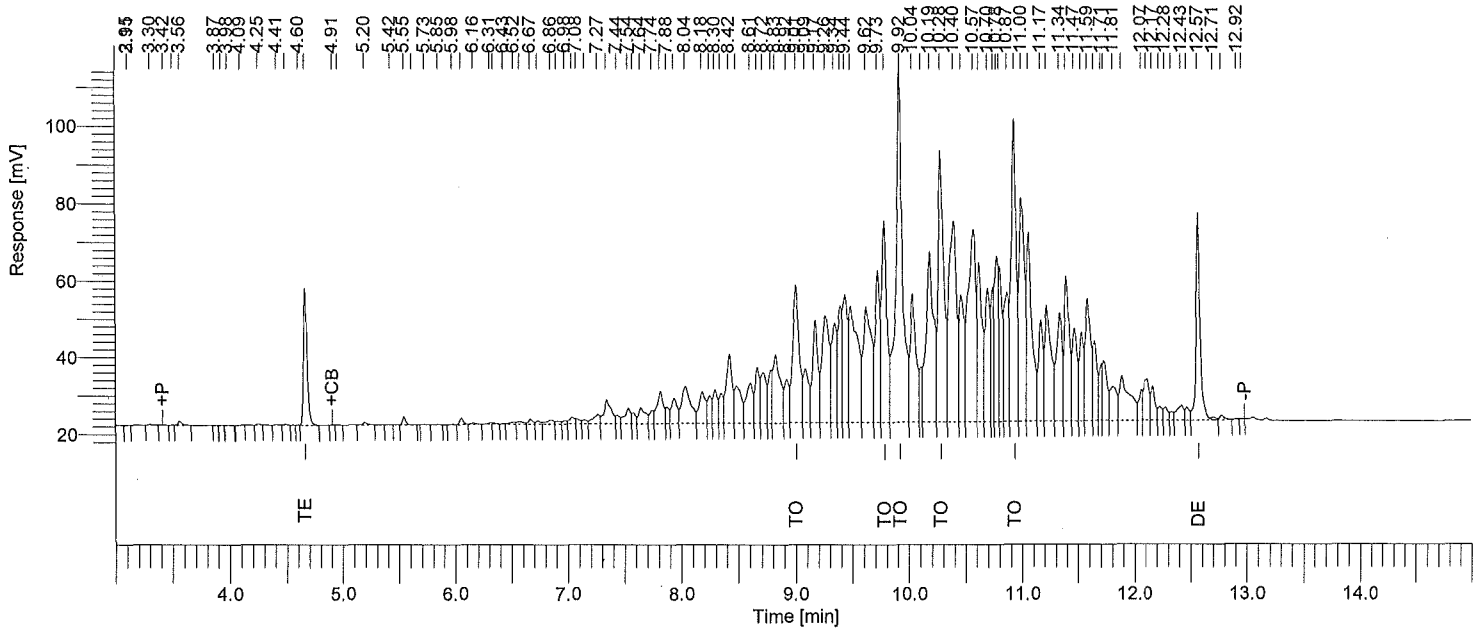

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.66	Tetrachloro-m-xylene	76863	0.0370218
9.01	Toxaphene-1	144709	3.8555860
9.78	Toxaphene-2	171987	3.8442779
9.92	Toxaphene-3	381478	3.8536749
10.28	Toxaphene-4	251885	3.8764757
10.94	Toxaphene-5	254656	3.8528064
12.57	Decachlorobiphenyl	133554	0.0737962

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:28:59
Operator	: sagers	Sample Name	: TOXAPH512
Sample Number	: 010	Study	: 28310
AutoSampler	: HP7673A	Rack/Vial	: 0/10
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 21:44:25	Dilution Factor	: 1.00
		Cycle	: 9

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Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_std_b.rpt
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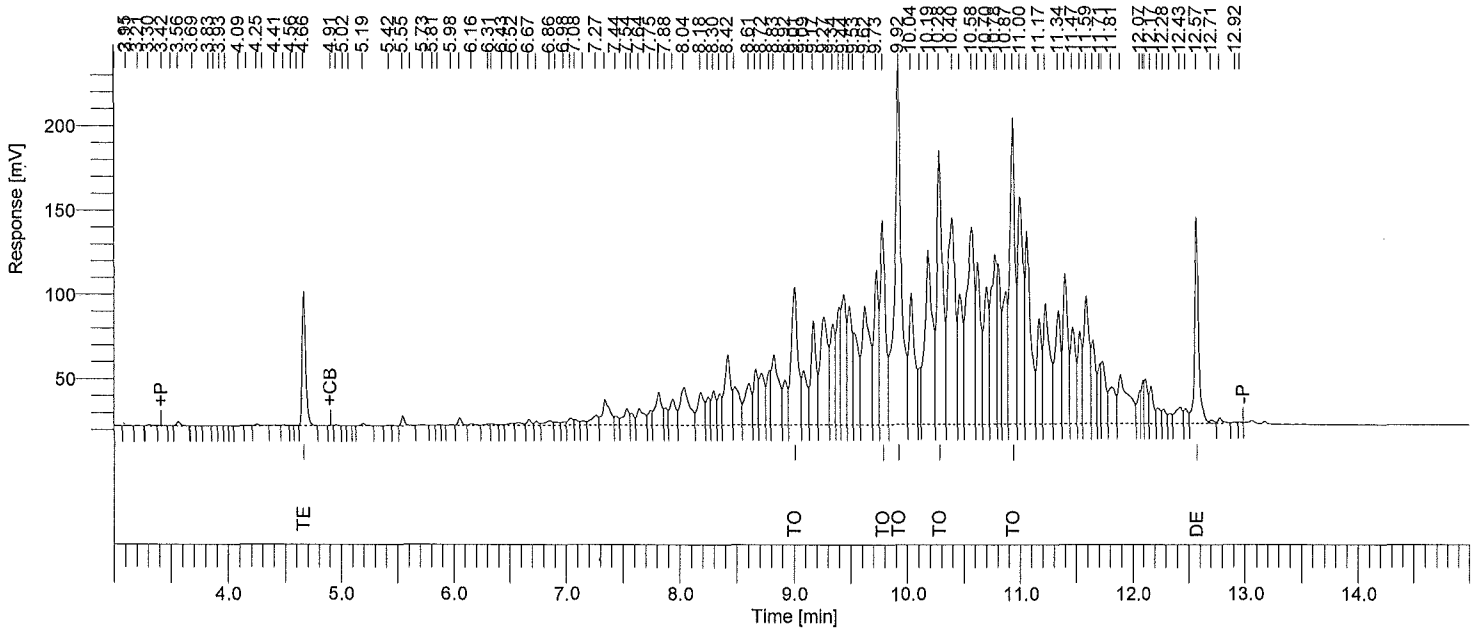

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.66	Tetrachloro-m-xylene	169525	0.0816527
9.01	Toxaphene-1	328433	8.7507116
9.78	Toxaphene-2	394758	8.8236770
9.92	Toxaphene-3	877556	8.8650330
10.28	Toxaphene-4	582952	8.9715425
10.94	Toxaphene-5	592342	8.9618166
12.57	Decachlorobiphenyl	303939	0.1679434

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:29:03
Operator	: sagers	Sample Name	: INDC112
Sample Number	: 011	Study	: 28311
AutoSampler	: HP7673A	Rack/Vial	: 0/11
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/19/2015 22:05:13	Cycle	: 10

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Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_std_b.rpt
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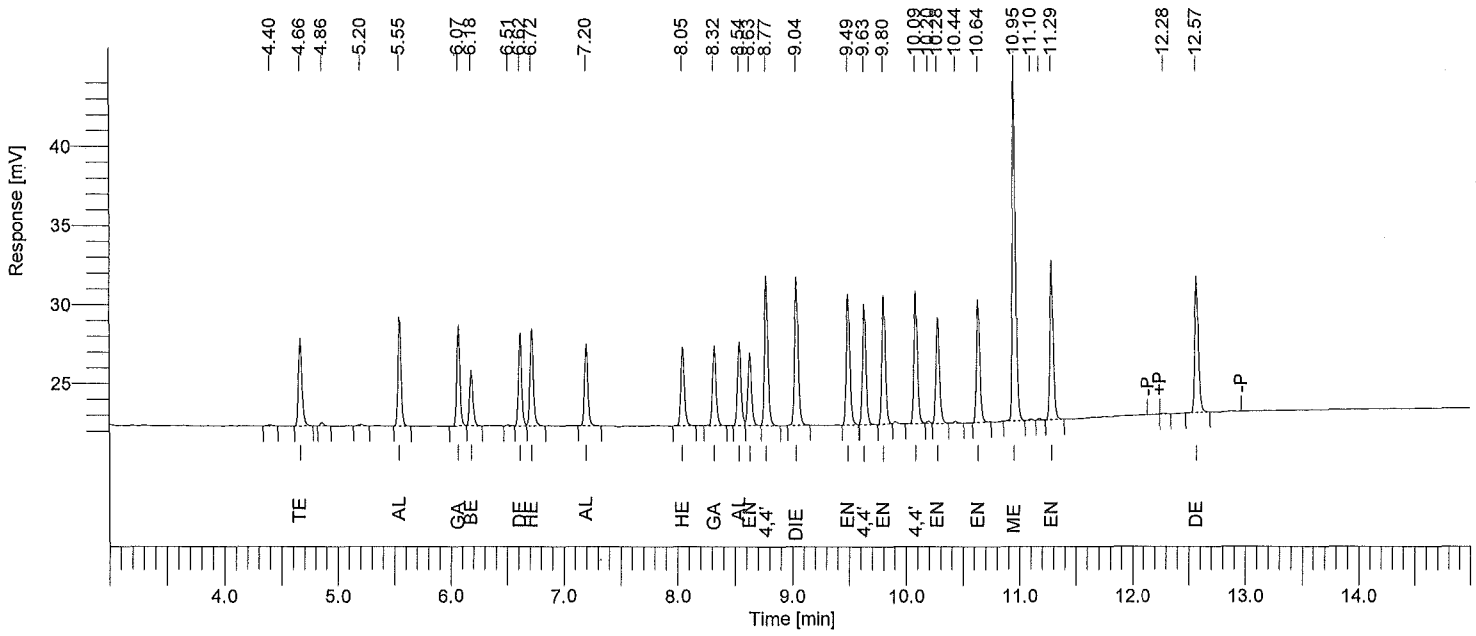

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.66	Tetrachloro-m-xylene	11771	0.0059129
5.55	alpha-BHC	12917	0.0051704
6.07	gamma-BHC	12195	0.0053376
6.18	beta-BHC	7211	0.0059223
6.62	delta-BHC	11244	0.0051535
6.72	Heptachlor	12740	0.0054896
7.20	Aldrin	10649	0.0052036
8.05	Heptachlor epoxide	10609	0.0054160
8.32	gamma-Chlordane	11007	0.0054149
8.54	alpha-Chlordane	11447	0.0055929
8.63	Endosulfan I	9928	0.0054110
8.77	4,4'-DDE	19508	0.0107512
9.04	Dieldrin	20317	0.0107589
9.49	Endrin	17885	0.0109044
9.63	4,4'-DDD	15929	0.0107702
9.80	Endosulfan II	17610	0.0109588
10.09	4,4'-DDT	17274	0.0108461
10.28	Endrin aldehyde	14590	0.0114019
10.64	Endosulfan sulfate	15881	0.0109805
10.95	Methoxychlor	44306	0.0575003
11.29	Endrin ketone	20487	0.0113757
12.57	Decachlorobiphenyl	19217	0.0123394

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:29:06
Operator	: sagers	Sample Name	: INDC212
Sample Number	: 012	Study	: 28312
AutoSampler	: HP7673A	Rack/Vial	: 0/12
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 22:26:17	Dilution Factor	: 1.00
		Cycle	: 11

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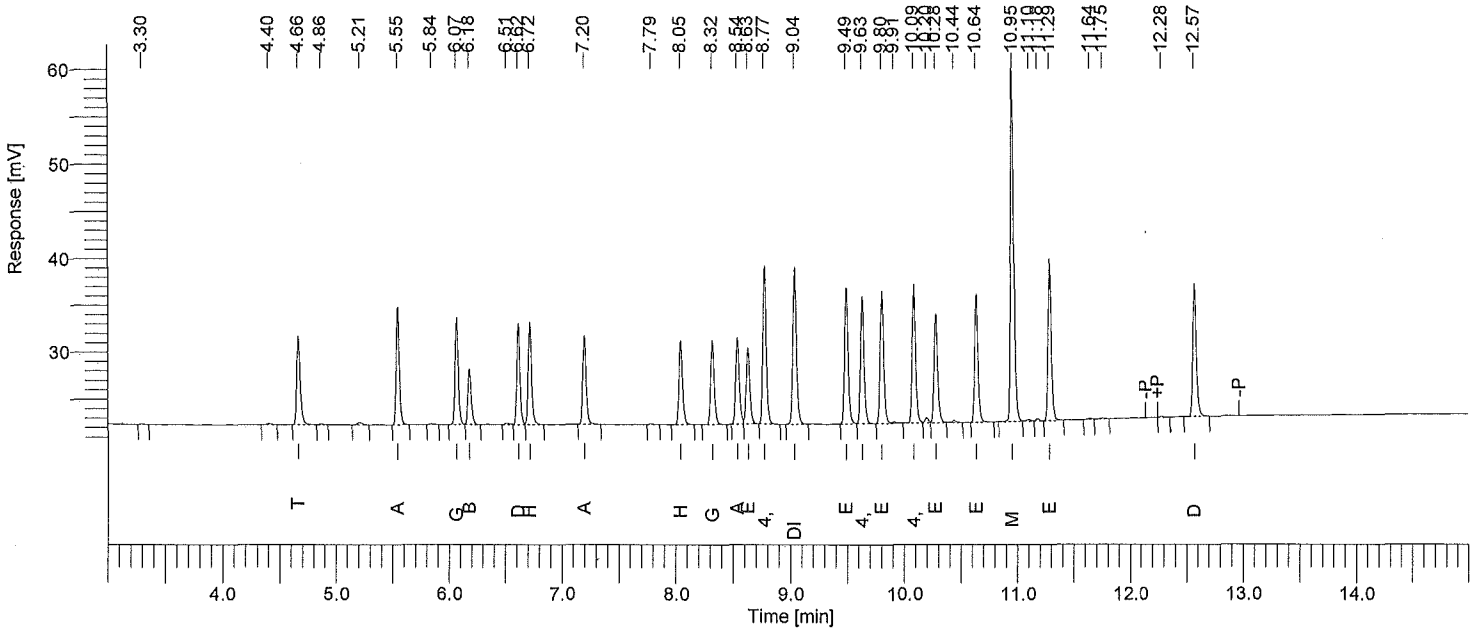

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.66	Tetrachloro-m-xylene	20054	0.0100735
5.55	alpha-BHC	23714	0.0094919
6.07	gamma-BHC	21953	0.0096085
6.18	beta-BHC	12241	0.0100527
6.62	delta-BHC	20635	0.0094578
6.72	Heptachlor	22406	0.0096550
7.20	Aldrin	19401	0.0094799
8.05	Heptachlor epoxide	18890	0.0096433
8.32	gamma-Chlordane	19566	0.0096254
8.54	alpha-Chlordane	19979	0.0097615
8.63	Endosulfan I	17594	0.0095888
8.77	4,4'-DDE	34863	0.0192133
9.04	Dieldrin	36275	0.0192093
9.49	Endrin	31354	0.0191167
9.63	4,4'-DDD	28486	0.0192603
9.80	Endosulfan II	30870	0.0192098
10.09	4,4'-DDT	30629	0.0192314
10.28	Endrin aldehyde	25299	0.0197710
10.64	Endosulfan sulfate	28063	0.0194029
10.95	Methoxychlor	74783	0.0970527
11.29	Endrin ketone	35141	0.0195130
12.57	Decachlorobiphenyl	31347	0.0201286

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:29:08
Operator	: sagers	Sample Name	: INDC312
Sample Number	: 013	Study	: 28313
AutoSampler	: HP7673A	Rack/Vial	: 0/13
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 22:47:05	Dilution Factor	: 1.00
		Cycle	: 12

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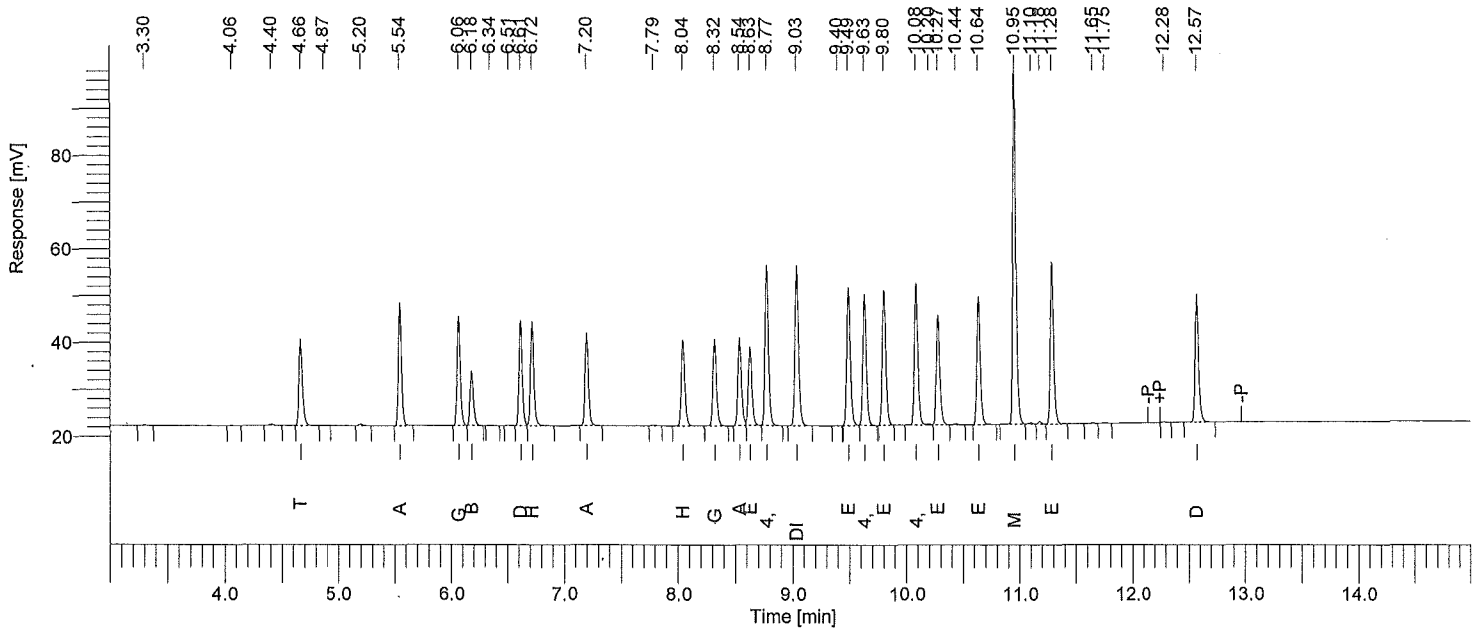

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.66	Tetrachloro-m-xylene	39273	0.0197279	0.0197279	0.0200000	98.6
5.54	alpha-BHC	50478	0.0202045	0.0202045	0.0200000	101.0
6.06	gamma-BHC	45854	0.0200699	0.0200699	0.0200000	100.3
6.18	beta-BHC	24037	0.0197401	0.0197401	0.0200000	98.7
6.61	delta-BHC	44100	0.0202122	0.0202122	0.0200000	101.1
6.72	Heptachlor	46348	0.0199715	0.0199715	0.0200000	99.9
7.20	Aldrin	41033	0.0200503	0.0200503	0.0200000	100.3
8.04	Heptachlor epoxide	39210	0.0200161	0.0200161	0.0200000	100.1
8.32	gamma-Chlordane	40303	0.0198266	0.0198266	0.0200000	99.1
8.54	alpha-Chlordane	40739	0.0199047	0.0199047	0.0200000	99.5
8.63	Endosulfan I	36502	0.0198941	0.0198941	0.0200000	99.5
8.77	4,4'-DDE	72580	0.0399997	0.0399997	0.0400000	100.0
9.03	Dieldrin	75459	0.0399590	0.0399590	0.0400000	99.9
9.49	Endrin	64232	0.0391629	0.0391629	0.0400000	97.9
9.63	4,4'-DDD	58981	0.0398790	0.0398790	0.0400000	99.7
9.80	Endosulfan II	63685	0.0396303	0.0396303	0.0400000	99.1
10.08	4,4'-DDT	63272	0.0397265	0.0397265	0.0400000	99.3
10.27	Endrin aldehyde	50939	0.0398086	0.0398086	0.0400000	99.5
10.64	Endosulfan sulfate	57120	0.0394941	0.0394941	0.0400000	98.7
10.95	Methoxychlor	149330	0.1938005	0.1938005	0.2000000	96.9
11.28	Endrin ketone	70846	0.0393387	0.0393387	0.0400000	98.3
12.57	Decachlorobiphenyl	60539	0.0388731	0.0388731	0.0400000	97.2

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:29:11
Operator	: sagers	Sample Name	: INDC412
Sample Number	: 014	Study	: 28314
AutoSampler	: HP7673A	Rack/Vial	: 0/14
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 23:07:51	Dilution Factor	: 1.00
		Cycle	: 13

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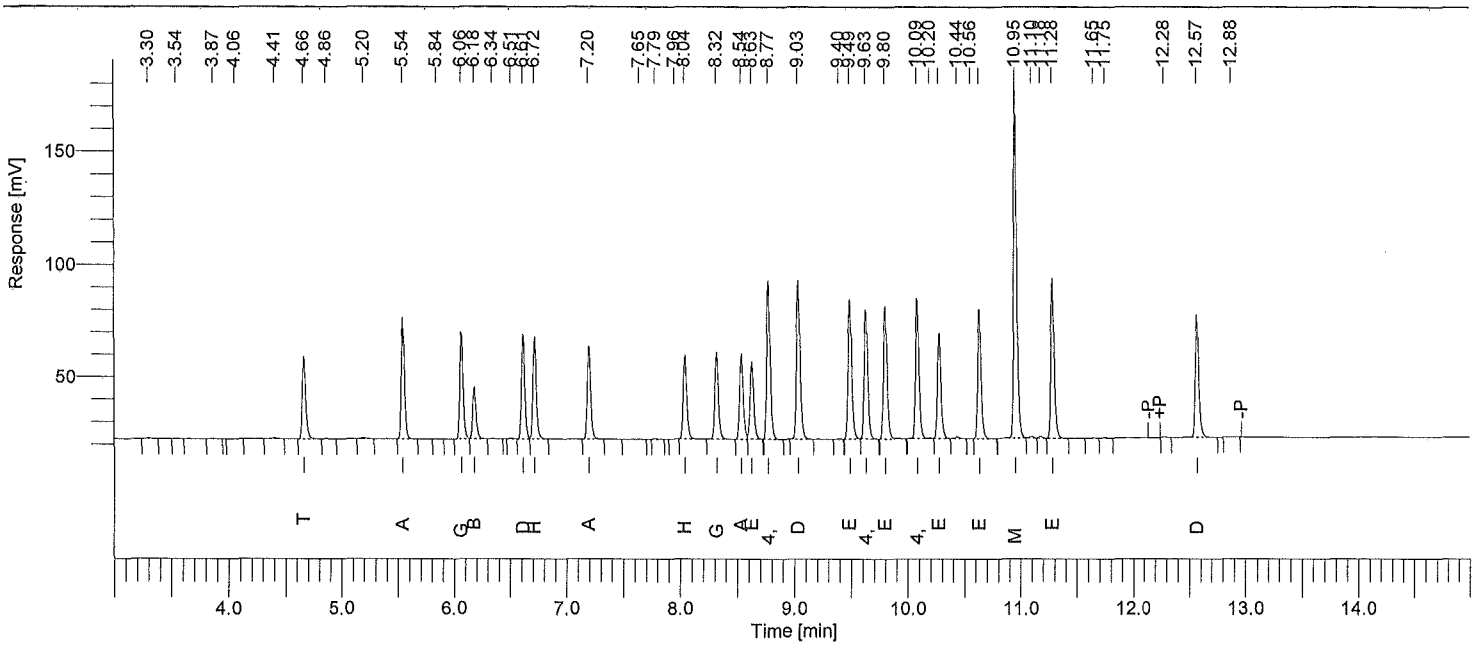

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.66	Tetrachloro-m-xylene	78623	0.0394942
5.54	alpha-BHC	106191	0.0425047
6.06	gamma-BHC	95794	0.0419285
6.18	beta-BHC	48407	0.0397532
6.61	delta-BHC	92914	0.0425850
6.72	Heptachlor	95654	0.0412178
7.20	Aldrin	86830	0.0424281
8.04	Heptachlor epoxide	81115	0.0414082
8.32	gamma-Chlordane	84914	0.0417724
8.54	alpha-Chlordane	83299	0.0406991
8.63	Endosulfan I	76369	0.0416222
8.77	4,4'-DDE	150923	0.0831749
9.03	Dieldrin	157340	0.0833187
9.49	Endrin	137714	0.0839660
9.63	4,4'-DDD	122881	0.0830847
9.80	Endosulfan II	133048	0.0827942
10.09	4,4'-DDT	131549	0.0825963
10.27	Endrin aldehyde	102119	0.0798051
10.64	Endosulfan sulfate	119376	0.0825384
10.95	Methoxychlor	309243	0.4013349
11.28	Endrin ketone	145668	0.0808854
12.57	Decachlorobiphenyl	119709	0.0768667

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:29:13
Operator	: sagers	Sample Name	: INDC512
Sample Number	: 015	Study	: 28315
AutoSampler	: HP7673A	Rack/Vial	: 0/15
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 23:28:41	Dilution Factor	: 1.00
		Cycle	: 14

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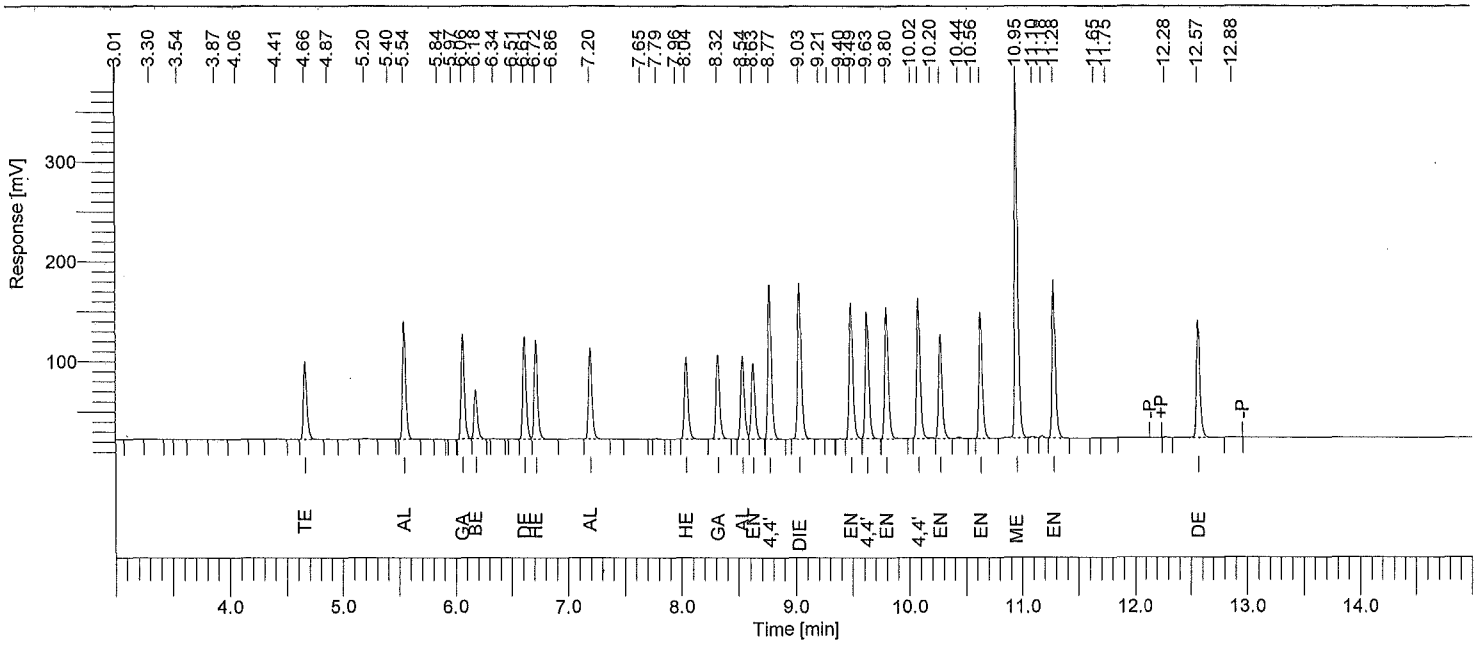

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.66	Tetrachloro-m-xylene	166492	0.0836328
5.54	alpha-BHC	235815	0.0943887
6.06	gamma-BHC	210174	0.0919922
6.18	beta-BHC	100997	0.0829427
6.61	delta-BHC	206901	0.0948282
6.72	Heptachlor	210619	0.0907562
7.20	Aldrin	194022	0.0948061
8.04	Heptachlor epoxide	179525	0.0916454
8.32	gamma-Chlordane	186776	0.0918825
8.54	alpha-Chlordane	182682	0.0892566
8.63	Endosulfan I	169474	0.0923663
8.77	4,4'-DDE	335518	0.1849064
9.03	Dieldrin	348673	0.1846383
9.49	Endrin	303447	0.1850151
9.63	4,4'-DDD	273445	0.1848868
9.80	Endosulfan II	295024	0.1835893
10.08	4,4'-DDT	295666	0.1856404
10.27	Endrin aldehyde	224821	0.1756955
10.63	Endosulfan sulfate	264016	0.1825450
10.95	Methoxychlor	698975	0.9071275
11.28	Endrin ketone	321373	0.1784493
12.57	Decachlorobiphenyl	257578	0.1653941

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:29:23
Operator	: sagers	Sample Name	: PEM22
Sample Number	: 017	Study	: 28317
AutoSampler	: HP7673A	Rack/Vial	: 0/17
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/20/2015 00:10:17	Dilution Factor	: 1.00
		Cycle	: 16

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Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_017.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_pem_b.rpt
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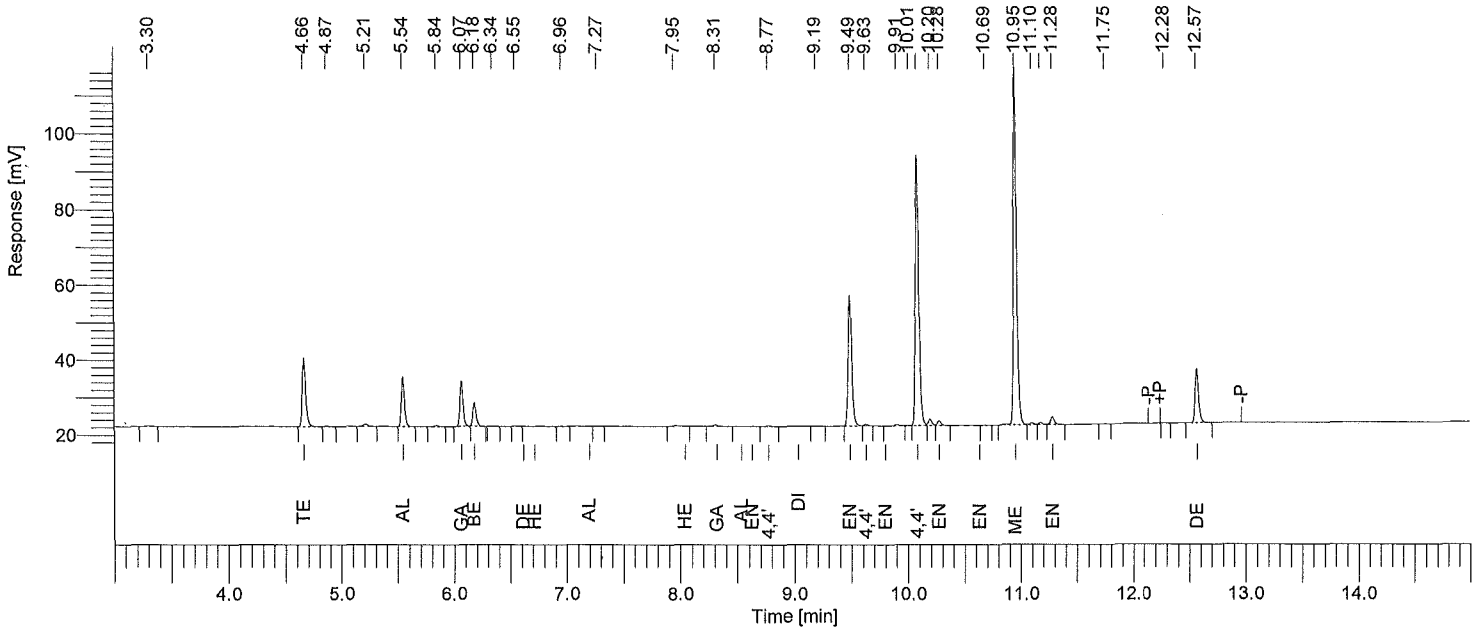

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.66	Tetrachloro-m-xylene	39195	0.0196885	0.0196885	0.02000	98.4
5.54	alpha-BHC	24888	0.0099617	0.0099617	0.01000	99.6
6.07	gamma-BHC	23465	0.0102705	0.0102705	0.01000	102.7
6.18	beta-BHC	12928	0.0106172	0.0106172	0.01000	106.2
6.61	delta-BHC	0	0.0000000	0.0000000	----------	------
6.72	Heptachlor	0	0.0000000	0.0000000	----------	------
7.20	Aldrin	0	0.0000000	0.0000000	----------	------
8.04	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
8.31	gamma-Chlordane	1062	0.0005225	0.0005225	0.00000	------
8.54	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
8.63	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.77	4,4'-DDE	744	0.0004101	0.0004101	0.10000	0.4
9.03	Dieldrin	0	0.0000000	0.0000000	----------	------
9.49	Endrin	77483	0.0472424	0.0472424	0.05000	94.5
9.63	4,4'-DDD	1147	0.0007759	0.0007759	0.10000	0.8
9.80	Endosulfan II	0	0.0000000	0.0000000	----------	------
10.08	4,4'-DDT	150813	0.0946915	0.0946915	0.10000	94.7
10.28	Endrin aldehyde	2854	0.0022306	0.0022306	0.05000	4.5
10.69	Endosulfan sulfate	212	0.0001469	0.0001469	0.00000	------
10.95	Methoxychlor	186346	0.2418394	0.2418394	0.25000	96.7
11.28	Endrin ketone	4569	0.0025369	0.0025369	0.05000	5.1
12.57	Decachlorobiphenyl	32105	0.0206151	0.0206151	0.02000	103.1
			0.4615491			806.6

06/23/2015 16:29:23 Result: \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_017.rst

Group Report For : 4,4'-DDT breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
8.77	4,4'-DDE	744	0.0004101	0.0004101	0.10000	0.4
9.63	4,4'-DDD	1147	0.0007759	0.0007759	0.10000	0.8
			0.0011860			1.2

Group Report For : Endrin breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
10.28	Endrin aldehyde	2854	0.0022306	0.0022306	0.05000	4.5
11.28	Endrin ketone	4569	0.0025369	0.0025369	0.05000	5.1
			0.0047675			9.5

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:29:29
Operator	: sagers	Sample Name	: PEM72
Sample Number	: 069	Study	: 28317
AutoSampler	: HP7673A	Rack/Vial	: 0/69
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 14:55:28	Dilution Factor	: 1.00
		Cycle	: 1

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_069.raw
Result File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_069.rst
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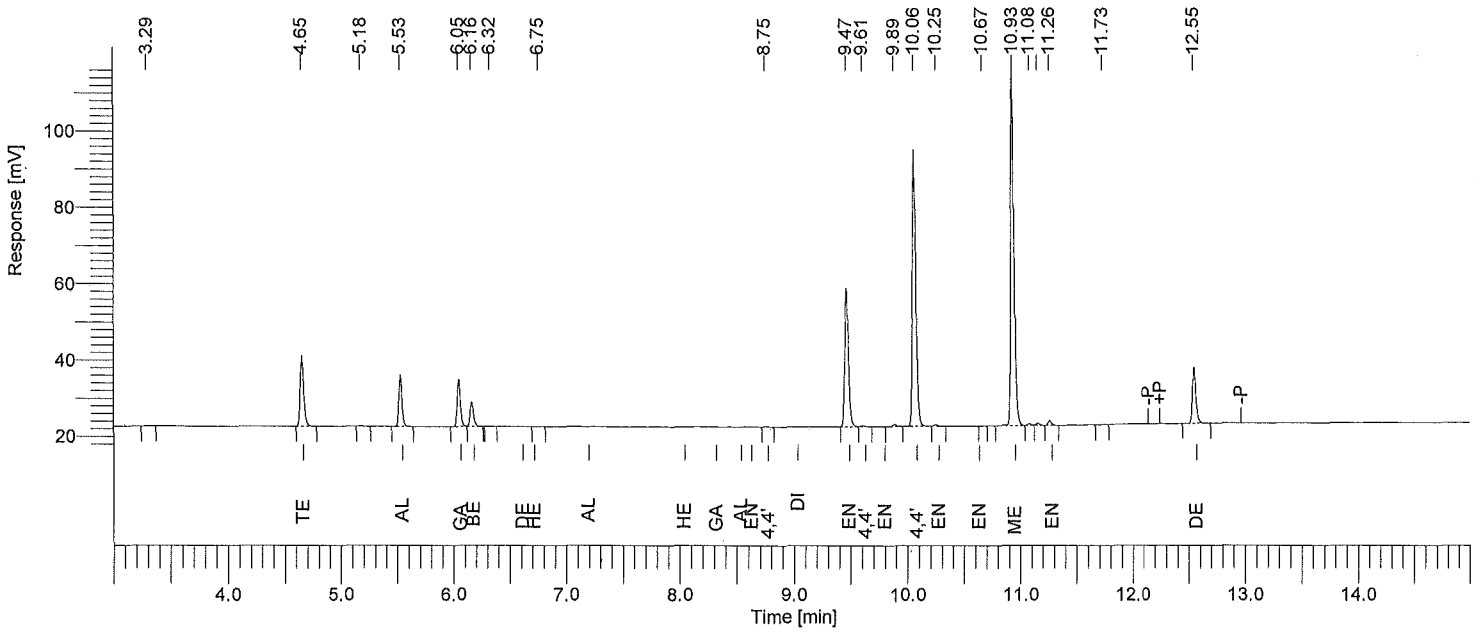
Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_069.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_069.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_pem_b.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619_SOM012_PEST_F9M36_F9M15_A.seq



Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.65	Tetrachloro-m-xylene	40151	0.0201688	0.0201688	0.02000	100.8
5.53	alpha-BHC	25880	0.0103588	0.0103588	0.01000	103.6
6.05	gamma-BHC	24195	0.0105901	0.0105901	0.01000	105.9
6.16	beta-BHC	13493	0.0110809	0.0110809	0.01000	110.8
6.61	delta-BHC	0	0.0000000	0.0000000	----------	------
6.75	Heptachlor	145	0.0000624	0.0000624	0.00000	------
7.20	Aldrin	0	0.0000000	0.0000000	----------	------
8.04	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
8.32	gamma-Chlordane	0	0.0000000	0.0000000	----------	------
8.54	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
8.63	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.75	4,4'-DDE	410	0.0002257	0.0002257	0.10000	0.2
9.03	Dieldrin	0	0.0000000	0.0000000	----------	------
9.47	Endrin	82123	0.0500715	0.0500715	0.05000	100.1
9.61	4,4'-DDD	917	0.0006198	0.0006198	0.10000	0.6
9.80	Endosulfan II	0	0.0000000	0.0000000	----------	------
10.06	4,4'-DDT	154000	0.0966927	0.0966927	0.10000	96.7
10.25	Endrin aldehyde	1122	0.0008765	0.0008765	0.05000	1.8
10.67	Endosulfan sulfate	85	0.0000584	0.0000584	0.00000	------
10.93	Methoxychlor	188844	0.2450814	0.2450814	0.25000	98.0
11.26	Endrin ketone	2430	0.0013494	0.0013494	0.05000	2.7
12.55	Decachlorobiphenyl	32858	0.0210985	0.0210985	0.02000	105.5
			0.4683350			826.8

06/23/2015 16:29:29 Result: \\Als\tws012\TCCS\sagers\GCE21\21150619\21150619B_069.rst

Group Report For : 4,4'-DDT breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
8.75	4,4'-DDE	410	0.0002257	0.0002257	0.10000	0.2
9.61	4,4'-DDD	917	0.0006198	0.0006198	0.10000	0.6
			0.0008455			0.8

Group Report For : Endrin breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
10.25	Endrin aldehyde	1122	0.0008765	0.0008765	0.05000	1.8
11.26	Endrin ketone	2430	0.0013494	0.0013494	0.05000	2.7
			0.0022260			4.5

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:03:06
Operator	: sagers	Sample Name	: INDC382
Sample Number	: 095	Study	: 28313
AutoSampler	: HP7673A	Rack/Vial	: 0/95
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/24/2015 00:00:47	Cycle	: 4

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Calib Method : \\AlsItws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b.mth from \\AlsItws012\TCCS\sagers\GCE21\21150619\21150619B_095.rst
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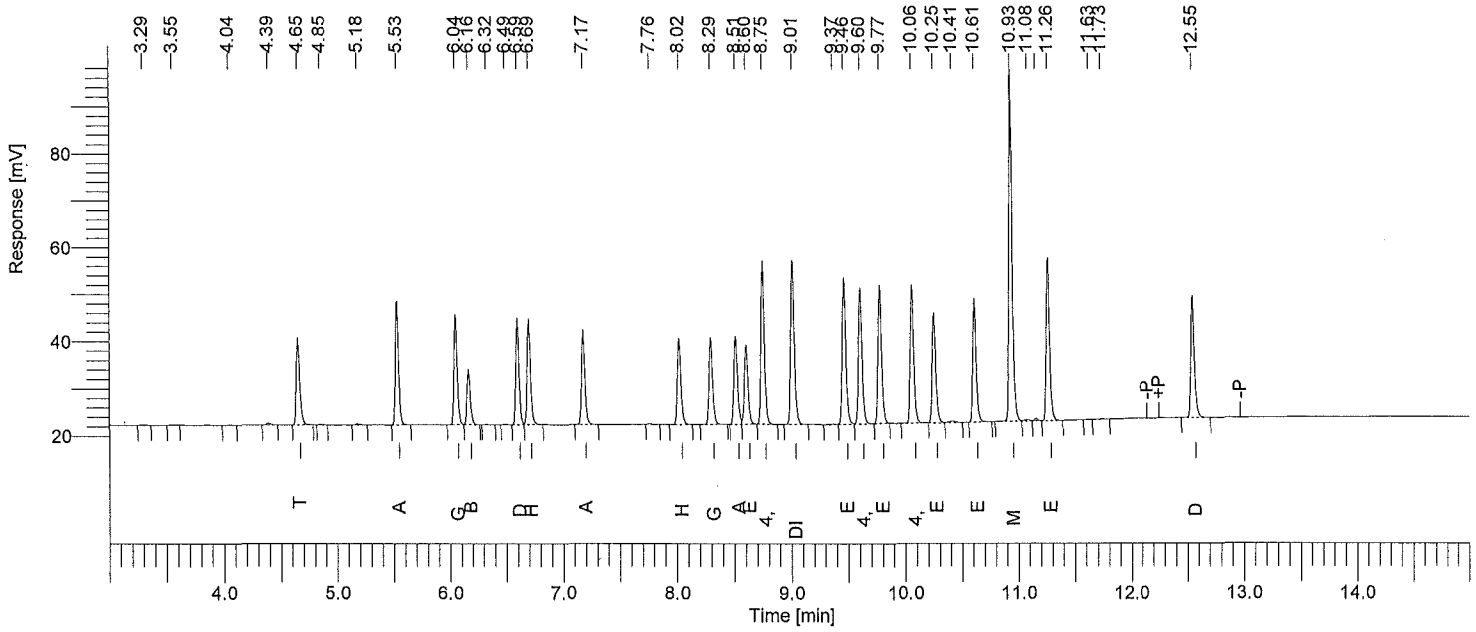

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.65	Tetrachloro-m-xylene	38866	0.0195234	0.0195234	0.0200000	97.6
5.53	alpha-BHC	50714	0.0202992	0.0202992	0.0200000	101.5
6.04	gamma-BHC	45936	0.0201058	0.0201058	0.0200000	100.5
6.16	beta-BHC	24121	0.0198092	0.0198092	0.0200000	99.0
6.59	delta-BHC	44260	0.0202856	0.0202856	0.0200000	101.4
6.69	Heptachlor	46845	0.0201856	0.0201856	0.0200000	100.9
7.17	Aldrin	41125	0.0200953	0.0200953	0.0200000	100.5
8.02	Heptachlor epoxide	39379	0.0201024	0.0201024	0.0200000	100.5
8.29	gamma-Chlordane	39969	0.0196622	0.0196622	0.0200000	98.3
8.51	alpha-Chlordane	40818	0.0199435	0.0199435	0.0200000	99.7
8.60	Endosulfan I	36820	0.0200675	0.0200675	0.0200000	100.3
8.75	4,4'-DDE	73157	0.0403172	0.0403172	0.0400000	100.8
9.01	Dieldrin	75997	0.0402438	0.0402438	0.0400000	100.6
9.46	Endrin	68548	0.0417946	0.0417946	0.0400000	104.5
9.60	4,4'-DDD	62065	0.0419647	0.0419647	0.0400000	104.9
9.77	Endosulfan II	64735	0.0402839	0.0402839	0.0400000	100.7
10.06	4,4'-DDT	61398	0.0385502	0.0385502	0.0400000	96.4
10.25	Endrin aldehyde	50955	0.0398207	0.0398207	0.0400000	99.6
10.61	Endosulfan sulfate	54222	0.0374903	0.0374903	0.0400000	93.7
10.93	Methoxychlor	150057	0.1947434	0.1947434	0.2000000	97.4
11.26	Endrin ketone	70682	0.0392476	0.0392476	0.0400000	98.1
12.55	Decachlorobiphenyl	56605	0.0363471	0.0363471	0.0400000	90.9

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 451343

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 21150619A070,21150619B070

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/23/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	0.039	J
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17.	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:36:28
Reprocess Number	: nasltw7087: 2219982		
Operator	: sagers		
Sample Number	: 070	Sample Name	: 451343
AutoSampler	: HP7673A	Study	: PBLKS1
Instrument Name	: GCE21	Rack/Vial	: 0/70
Instrument Serial #	: None	Channel	: A
Delay Time	: 0.00 min	A/D mV Range	: 1000
Sampling Rate	: 5.0000 pts/s	End Time	: 16.90 min
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 14:55:28	Dilution Factor	: 1.00
		Cycle	: 1

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Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_070.rst
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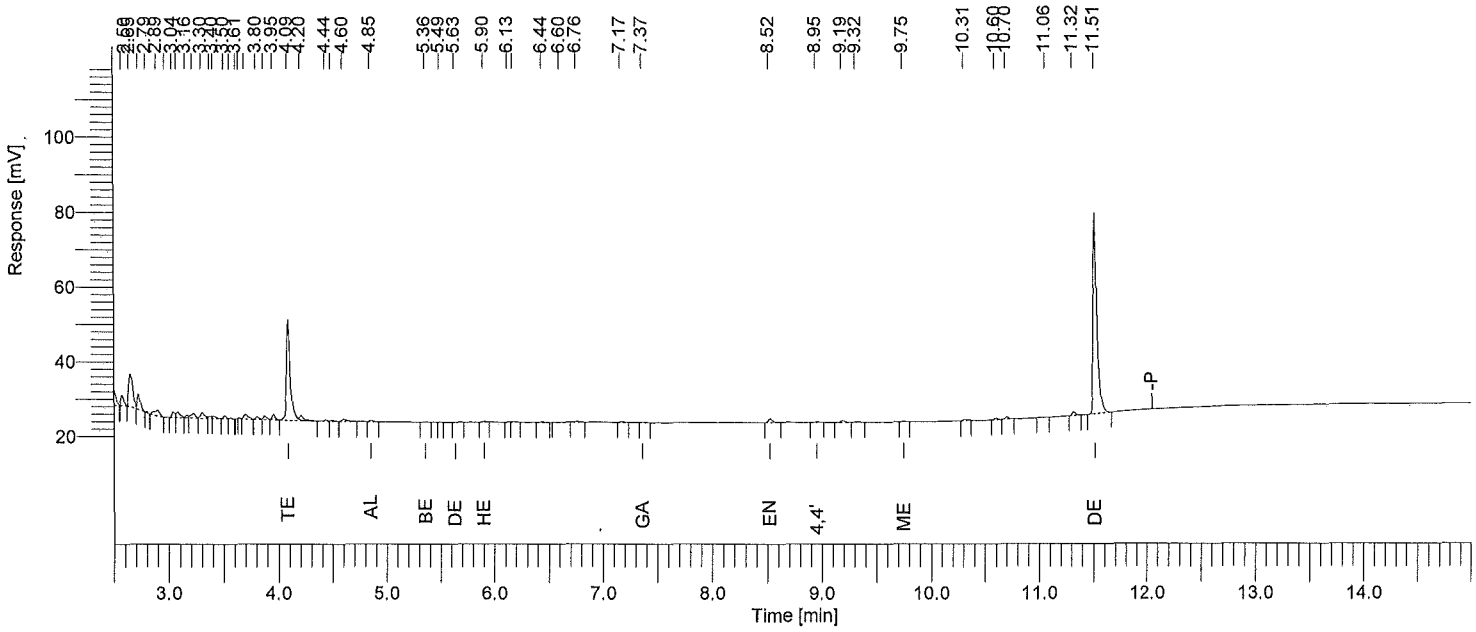

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.09	Tetrachloro-m-xylene	65528	0.02824271	1	10	0.03000	1.000	1.6667	9.41424	20.00	47.1
4.85	alpha-BHC	985	3.2618e-04	1	10	0.03000	1.000	1.6667	0.10873	0.00	------
5.29	gamma-BHC	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
5.36	beta-BHC	289	1.9609e-04	1	10	0.03000	1.000	1.6667	0.06536	0.00	------
5.63	delta-BHC	314	1.1565e-04	1	10	0.03000	1.000	1.6667	0.03855	0.00	------
5.90	Heptachlor	551	1.8619e-04	1	10	0.03000	1.000	1.6667	0.06206	0.00	------
6.37	Aldrin	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
7.24	Heptachlor epoxide	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
7.37	gamma-Chlordane	511	2.0063e-04	1	10	0.03000	1.000	1.6667	0.06688	0.00	------
7.60	alpha-Chlordane	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
7.72	4,4'-DDE	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
7.80	Endosulfan I	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
8.15	Dieldrin	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
8.52	Endrin	2768	1.3549e-03	1	10	0.03000	1.000	3.3333	0.45164	0.00	------
8.58	4,4'-DDD	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
8.81	Endosulfan II	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
8.95	4,4'-DDT	386	1.8876e-04	1	10	0.03000	1.000	3.3333	0.06292	0.00	------
9.42	Endrin aldehyde	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
9.75	Methoxychlor	322	3.1476e-04	1	10	0.03000	1.000	16.6667	0.10492	0.00	------
10.05	Endosulfan sulfate	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
10.42	Endrin ketone	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
11.51	Decachlorobiphenyl	132794	0.06687002	1	10	0.03000	1.000	3.3333	22.29001	40.00	55.7

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK21(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PIBLK21

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21150619A016

% Moisture: 0.0 Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 06/19/2015

Injection Volume: 2.0 (uL) GPC Factor: Dilution Factor: 1.0

GPC Cleanup: (Y/N) pH: Sulfur Cleanup: (Y/N)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:36:39
Reprocess Number	: nasltw7087: 2219984		
Operator	: sagers		
Sample Number	: 070	Sample Name	: 451343
AutoSampler	: HP7673A	Study	: PBLKS1
Instrument Name	: GCE21	Rack/Vial	: 0/70
Instrument Serial #	: None	Channel	: B
Delay Time	: 0.00 min	A/D mV Range	: 1000
Sampling Rate	: 5.0000 pts/s	End Time	: 16.90 min
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 15:16:24	Dilution Factor	: 1.00
		Cycle	: 1

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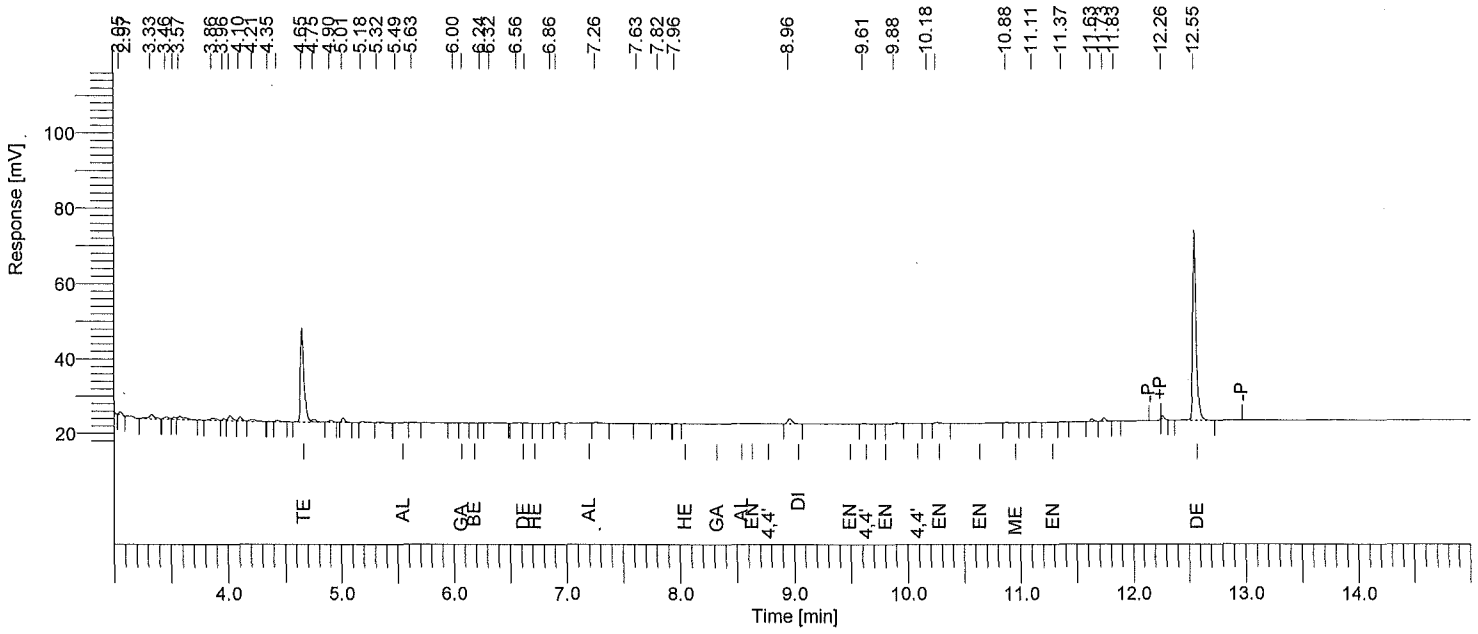

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.65	Tetrachloro-m-xylene	54958	0.02760672	1	10	0.03000	1.000	1.6667	9.20224	20.00	46.0
5.54	alpha-BHC	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	------
6.08	gamma-BHC	290	1.2685e-04	1	10	0.03000	1.000	1.6667	0.04228	0.00	------
6.18	beta-BHC	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	------
6.64	delta-BHC	267	1.2257e-04	1	10	0.03000	1.000	1.6667	0.04086	0.00	------
6.72	Heptachlor	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	------
7.20	Aldrin	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	------
8.04	Heptachlor epoxide	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	------
8.32	gamma-Chlordane	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	------
8.54	alpha-Chlordane	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	------
8.63	Endosulfan I	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	------
8.77	4,4'-DDE	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	------
9.03	Dieldrin	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	------
9.49	Endrin	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	------
9.61	4,4'-DDD	459	3.1036e-04	1	10	0.03000	1.000	3.3333	0.10345	0.00	------
9.80	Endosulfan II	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	------
10.08	4,4'-DDT	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	------
10.25	Endrin aldehyde	849	6.6369e-04	1	10	0.03000	1.000	3.3333	0.22123	0.00	------
10.64	Endosulfan sulfate	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	------
10.95	Methoxychlor	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	------
11.28	Endrin ketone	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	------
12.55	Decachlorobiphenyl	112274	0.07209250	1	10	0.03000	1.000	3.3333	24.03083	40.00	60.1

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:28:36
Operator	: sagers	Sample Name	: PIBLK21
Sample Number	: 016	Study	: 28316
AutoSampler	: HP7673A	Rack/Vial	: 0/16
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 23:28:41	Dilution Factor	: 1.00
		Cycle	: 14

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_016.rst
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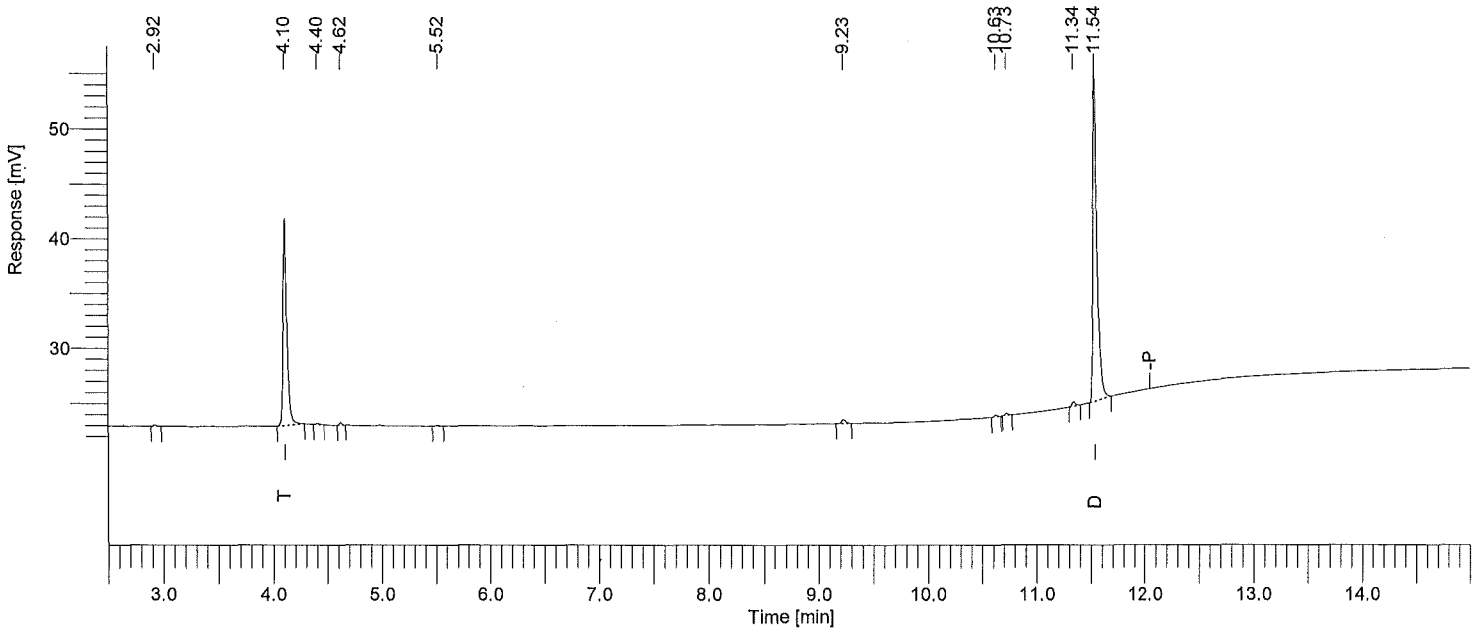

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
4.10	Tetrachloro-m-xylene	45338	0.019541	1	10	1.000	1.000	0.050000	0.195410	0.2000	97.7
4.85	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.29	gamma-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.41	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.65	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.95	Heptachlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.37	Aldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.24	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.41	gamma-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.60	alpha-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.72	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.80	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.15	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.49	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.58	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.81	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.98	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.42	Endrin aldehyde	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.68	Methoxychlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.05	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.42	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.54	Decachlorobiphenyl	77091	0.038820	1	10	1.000	1.000	0.100000	0.388202	0.4000	97.1

All analytes <CRQL.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK22(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PIBLK22

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21150619B016

% Moisture: 0.0 Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 06/19/2015

Injection Volume: 2.0 (uL) GPC Factor: Dilution Factor: 1.0

GPC Cleanup: (Y/N) pH: Sulfur Cleanup: (Y/N)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.0019	J
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

Software Version	: 6.3.1.0504	Date	: 06/23/2015 14:48:34
Reprocess Number	: nasltw7087: 2219938		
Operator	: sagers		
Sample Number	: 068	Sample Name	: PIBLK71
AutoSampler	: HP7673A	Study	: 28316
Instrument Name	: GCE21	Rack/Vial	: 0/68
Instrument Serial #	: None	Channel	: A
Delay Time	: 0.00 min	A/D mV Range	: 1000
Sampling Rate	: 5.0000 pts/s	End Time	: 16.17 min
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 14:14:24	Dilution Factor	: 1.00
		Cycle	: 3

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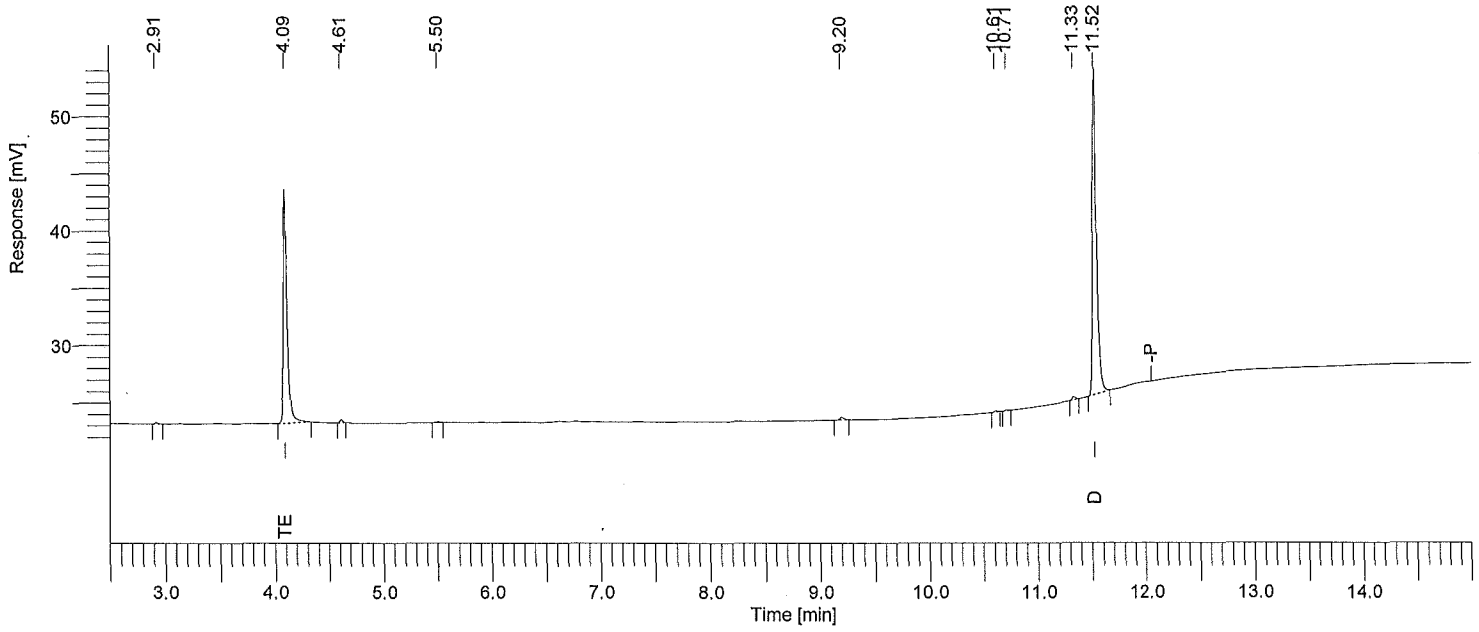
Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_068.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_068.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som12_inst blk_a.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619_SOM012_PEST_F9M36_F9M15_A.seq



Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
4.09	Tetrachloro-m-xylene	49269	0.021235	1	10	1.000	1.000	0.050000	0.212353	0.2000	106.2
4.85	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.29	gamma-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.41	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.65	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.95	Heptachlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.37	Aldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.24	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.41	gamma-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.60	alpha-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.72	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.80	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.15	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.49	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.58	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.81	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.98	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.42	Endrin aldehyde	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.68	Methoxychlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.05	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.42	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.52	Decachlorobiphenyl	70480	0.035491	1	10	1.000	1.000	0.100000	0.354912	0.4000	88.7

All analytes <CRQL.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK71(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PIBLK71

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21150619A068

% Moisture: 0.0 Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 06/23/2015

Injection Volume: 2.0 (uL) GPC Factor: Dilution Factor: 1.0

GPC Cleanup: (Y/N) pH: Sulfur Cleanup: (Y/N)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:02:09
Operator	: sagers	Sample Name	: PIBLK81
Sample Number	: 094	Study	: 28316
AutoSampler	: HP7673A	Rack/Vial	: 0/94
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/23/2015 23:19:10	Cycle	: 2

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_094.raw
Result File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_094.rst
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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_094.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_094.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som12_inst blk_a.rpt
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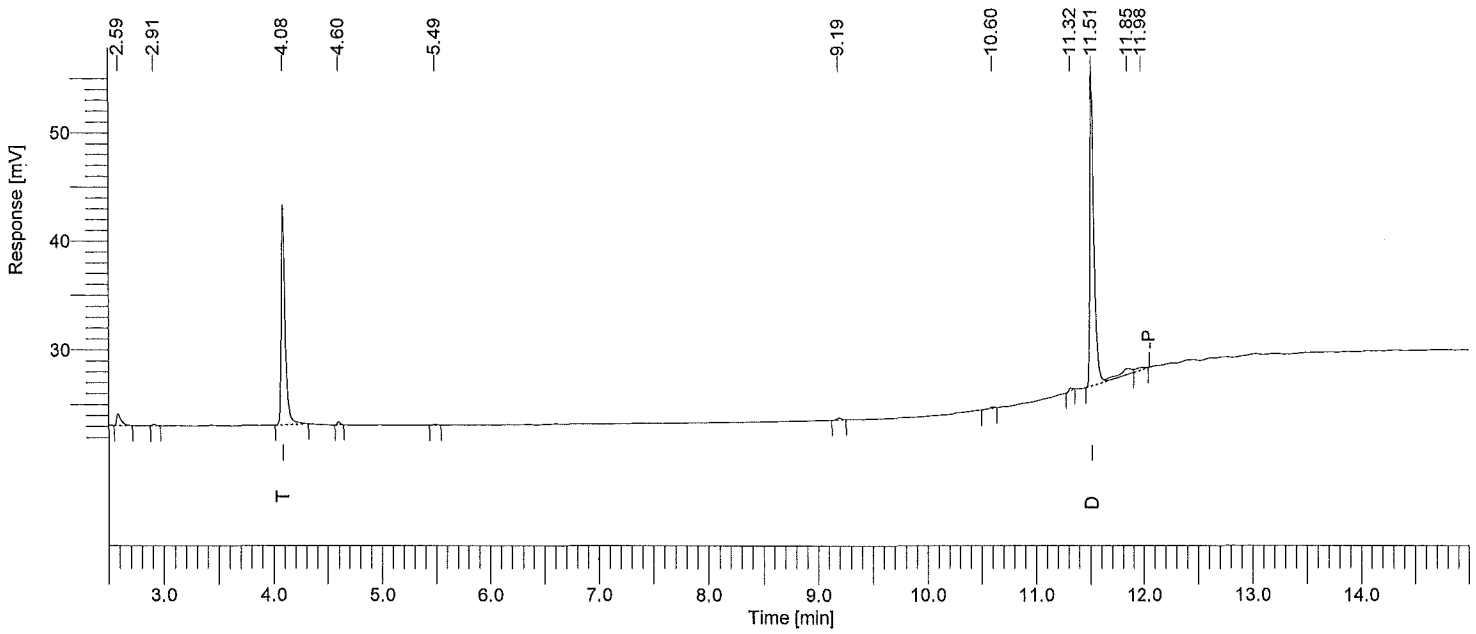

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
4.08	Tetrachloro-m-xylene	48851	0.021055	1	10	1.000	1.000	0.050000	0.210549	0.2000	105.3
4.85	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.29	gamma-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.41	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.65	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.95	Heptachlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.37	Aldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.24	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.41	gamma-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.60	alpha-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.72	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.80	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.15	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.49	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.58	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.81	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.98	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.42	Endrin aldehyde	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.68	Methoxychlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.05	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.42	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.51	Decachlorobiphenyl	72346	0.036431	1	10	1.000	1.000	0.100000	0.364308	0.4000	91.1

All analytes <CRQL.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK72(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PIBLK72

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21150619B068

% Moisture: 0.0 Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 06/23/2015

Injection Volume: 2.0 (uL) GPC Factor: Dilution Factor: 1.0

GPC Cleanup: (Y/N) pH: Sulfur Cleanup: (Y/N)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:29:16
Operator	: sagers	Sample Name	: PIBLK22
Sample Number	: 016	Study	: 28316
AutoSampler	: HP7673A	Rack/Vial	: 0/16
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/19/2015 23:49:29	Cycle	: 15

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_016.rst
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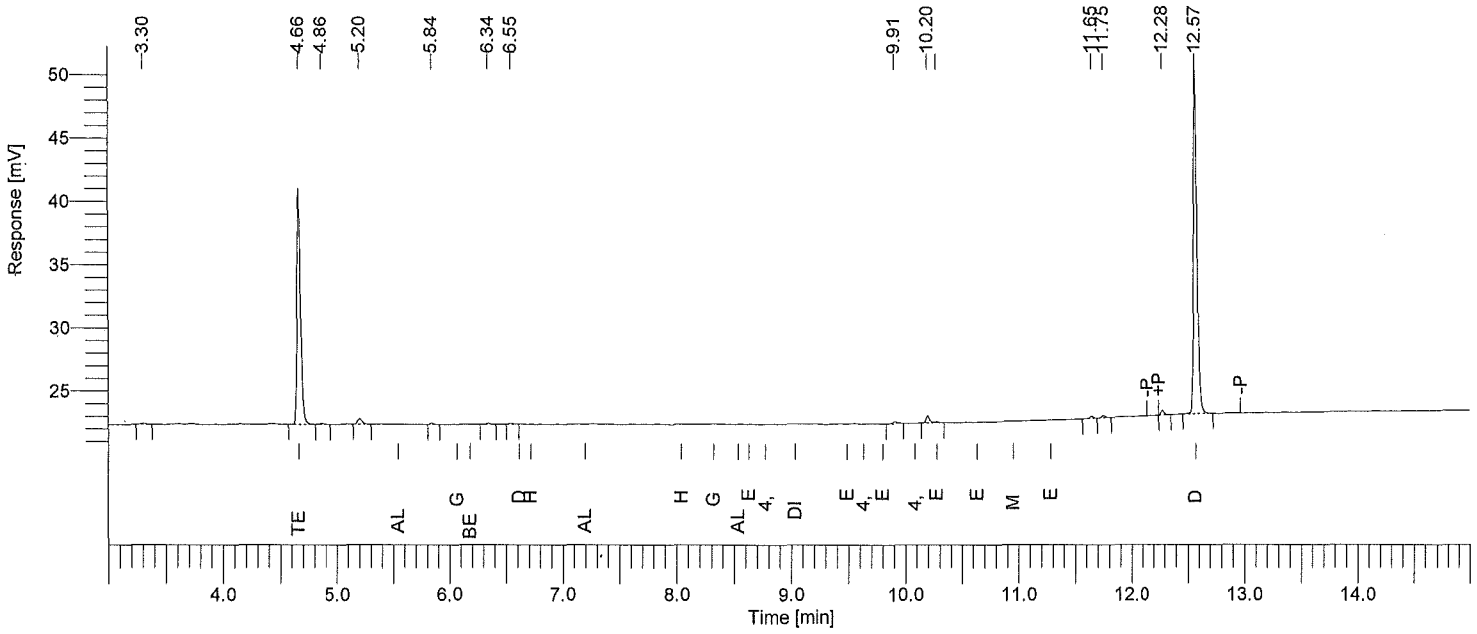

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
4.66	Tetrachloro-m-xylene	39929	0.020057	1	10	1.000	1.000	0.050000	0.200575	0.2000	100.3
5.54	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.06	gamma-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.18	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.61	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.72	Heptachlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.20	Aldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.04	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.32	gamma-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.54	alpha-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.63	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.77	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.03	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.49	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.63	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.80	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.08	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.27	Endrin aldehyde	240	1.87e-04	1	10	1.000	1.000	0.100000	0.001874	0.0000	-----
10.64	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.95	Methoxychlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.28	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
12.57	Decachlorobiphenyl	60251	0.038688	1	10	1.000	1.000	0.100000	0.386882	0.4000	96.7

All analytes <CRQL.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK81(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PIBLK81

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21150619A094

% Moisture: 0.0 Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 06/23/2015

Injection Volume: 2.0 (uL) GPC Factor: Dilution Factor: 1.0

GPC Cleanup: (Y/N) pH: Sulfur Cleanup: (Y/N)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

Software Version	: 6.3.1.0504	Date	: 06/23/2015 14:52:18
Reprocess Number	: nasltw7087: 2219943		
Operator	: sagers		
Sample Number	: 068	Sample Name	: PIBLK72
AutoSampler	: HP7673A	Study	: 28316
Instrument Name	: GCE21	Rack/Vial	: 0/68
Instrument Serial #	: None	Channel	: B
Delay Time	: 0.00 min	A/D mV Range	: 1000
Sampling Rate	: 5.0000 pts/s	End Time	: 16.90 min
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 14:34:34	Dilution Factor	: 1.00
		Cycle	: 1

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_068.rst
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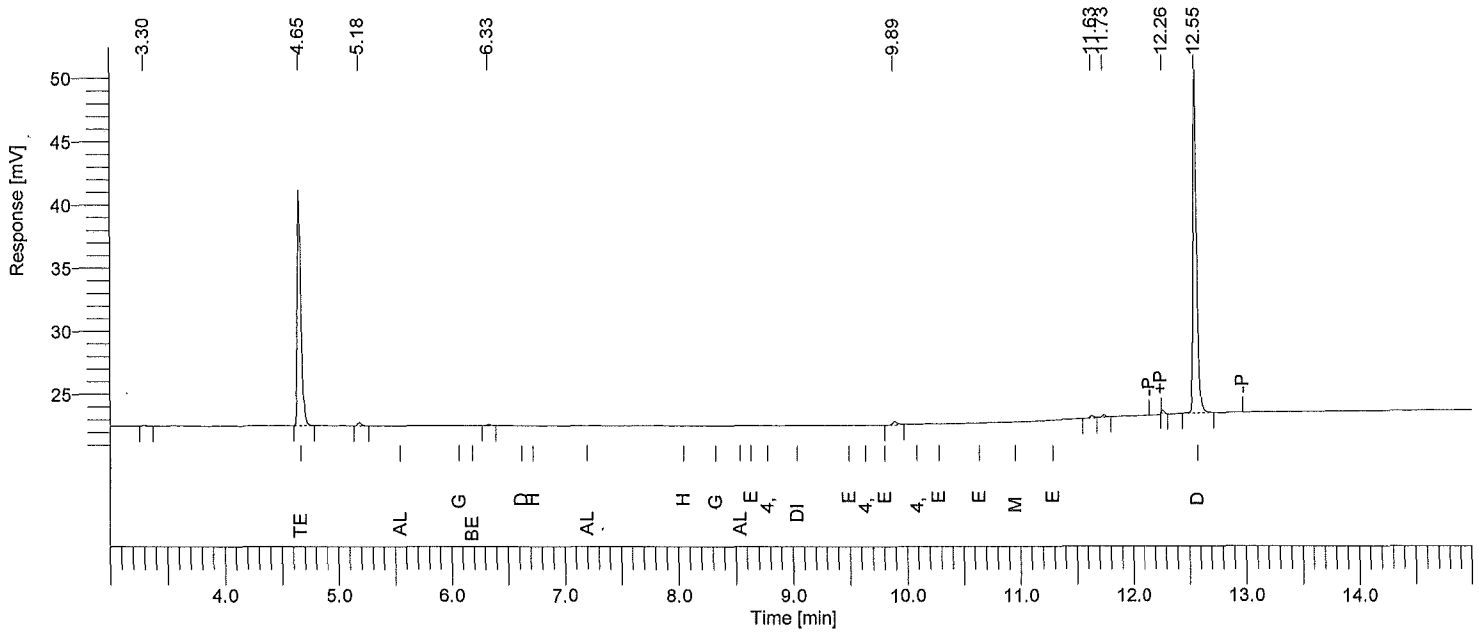
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som12_inst blk_b.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619_SOM012_PEST_F9M36_F9M15_A.seq



Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
4.65	Tetrachloro-m-xylene	40389	0.020288	1	10	1.000	1.000	0.050000	0.202882	0.2000	101.4
5.54	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.06	gamma-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.18	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.61	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.72	Heptachlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.20	Aldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.04	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.32	gamma-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.54	alpha-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.63	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.77	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.03	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.49	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.63	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.80	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.08	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.27	Endrin aldehyde	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.64	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.95	Methoxychlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.28	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
12.55	Decachlorobiphenyl	60294	0.038716	1	10	1.000	1.000	0.100000	0.387158	0.4000	96.8

All analytes <CRQL.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK82(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PIBLK82

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21150619B094

% Moisture: 0.0 Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 06/23/2015

Injection Volume: 2.0 (uL) GPC Factor: Dilution Factor: 1.0

GPC Cleanup: (Y/N) pH: Sulfur Cleanup: (Y/N)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:03:04
Operator	: sagers	Sample Name	: PIBLK82
Sample Number	: 094	Study	: 28316
AutoSampler	: HP7673A	Rack/Vial	: 0/94
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 23:40:01	Dilution Factor	: 1.00
		Cycle	: 3

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_094.rst
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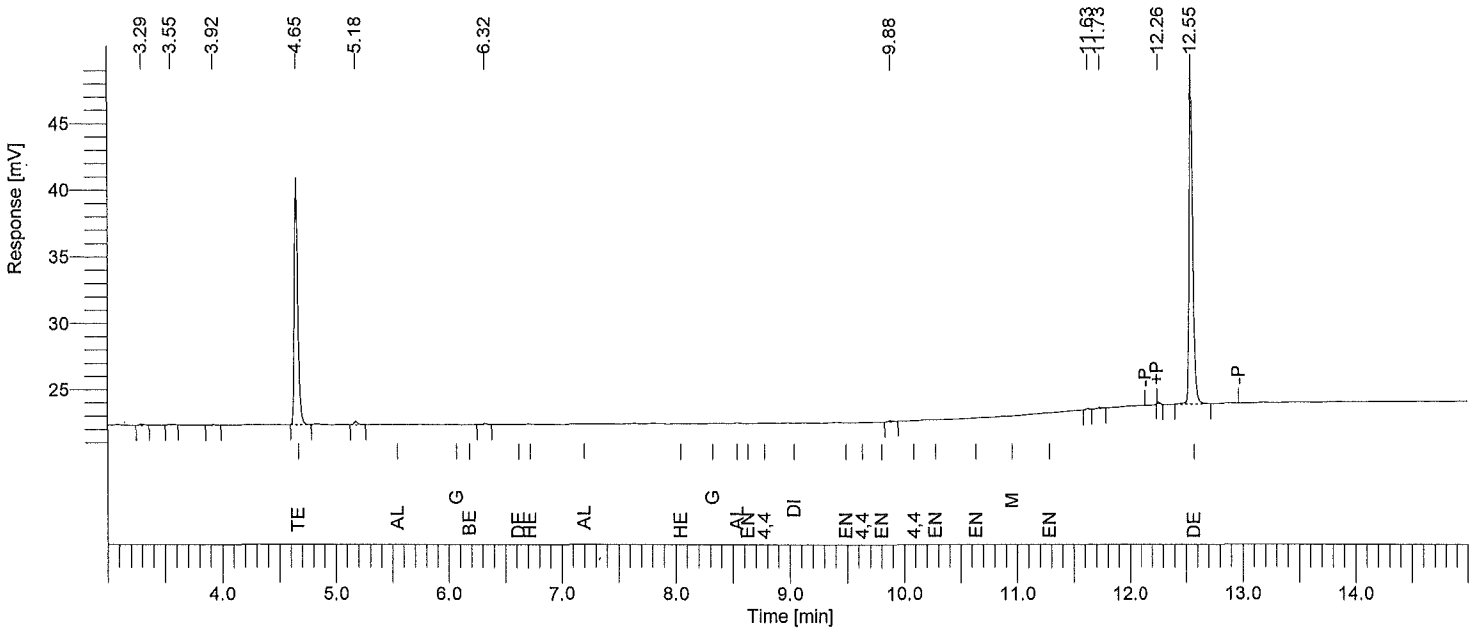

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
4.65	Tetrachloro-m-xylene	39085	0.019633	1	10	1.000	1.000	0.050000	0.196332	0.2000	98.2
5.54	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.06	gamma-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.18	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.61	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.72	Heptachlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.20	Aldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.04	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.32	gamma-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.54	alpha-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.63	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.77	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.03	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.49	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.63	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.80	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.08	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.27	Endrin aldehyde	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.64	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.95	Methoxychlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.28	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
12.55	Decachlorobiphenyl	55925	0.035910	1	10	1.000	1.000	0.100000	0.359102	0.4000	89.8

All analytes <CRQL.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M91MS(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725012

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 21150619A083

% Moisture: 8.4 Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/23/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.10	J
319-85-7	beta-BHC	4.4	P
319-86-8	delta-BHC	1.2	JBP
58-89-9	gamma-BHC (Lindane)	18.	
76-44-8	Heptachlor	17.	
309-00-2	Aldrin	19.	
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	30.	
72-55-9	4,4'-DDE	0.060	JP
72-20-8	Endrin	38.	P
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	0.50	JP
1031-07-8	Endosulfan sulfate	3.6	U
50-29-3	4,4'-DDT	37.	
72-43-5	Methoxychlor	2.1	JP
53494-70-5	Endrin ketone	5.6	P
7421-93-4	Endrin aldehyde	0.48	JP
5103-71-9	alpha-Chlordane	0.055	J
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:01:44
Operator	: sagers	Sample Name	: 1515725012
Sample Number	: 083	Study	: F9M91MS
AutoSampler	: HP7673A	Rack/Vial	: 0/83
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 19:28:43	Dilution Factor	: 1.00
		Cycle	: 14

Raw Data File : \\AlsItws012\TCCS\sagers\GCE21\21150619\21150619A_083.raw
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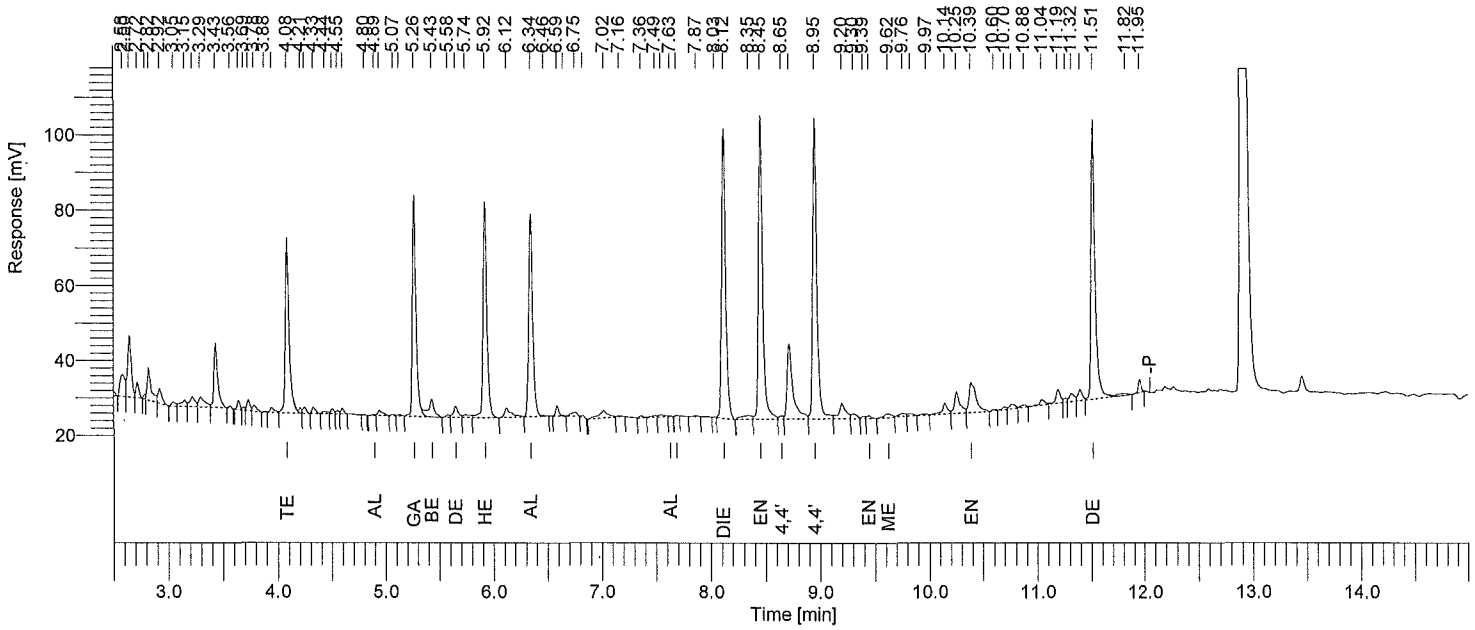

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.08	Tetrachloro-m-xylene	113069	0.04873325	1	10	0.03030	0.990	1.6502	16.08358	19.80	81.2
4.89	alpha-BHC	879	2.9089e-04	1	10	0.03030	0.990	1.6502	0.09600	0.00	------
5.26	gamma-BHC	139061	0.04975630	1	10	0.03030	0.990	1.6502	16.42122	0.00	------
5.43	beta-BHC	17927	0.01215443	1	10	0.03030	0.990	1.6502	4.01136	0.00	------
5.65	delta-BHC	9098	3.3503e-03	1	10	0.03030	0.990	1.6502	1.10570	0.00	------
5.92	Heptachlor	140827	0.04761017	1	10	0.03030	0.990	1.6502	15.71293	0.00	------
6.34	Aldrin	138213	0.05306776	1	10	0.03030	0.990	1.6502	17.51411	0.00	------
7.24	Heptachlor epoxide	0	0.00000000	1	10	0.03030	0.990	----------	0.00000	--------	------
7.41	gamma-Chlordane	0	0.00000000	1	10	0.03030	0.990	----------	0.00000	--------	------
7.63	alpha-Chlordane	399	1.5358e-04	1	10	0.03030	0.990	1.6502	0.05069	0.00	------
7.68	4,4'-DDE	358	1.6615e-04	1	10	0.03030	0.990	3.3003	0.05484	0.00	------
7.80	Endosulfan I	0	0.00000000	1	10	0.03030	0.990	----------	0.00000	--------	------
8.12	Dieldrin	193160	0.08331695	1	10	0.03030	0.990	3.3003	27.49734	0.00	------
8.45	Endrin	214134	0.10482838	1	10	0.03030	0.990	3.3003	34.59683	0.00	------
8.65	4,4'-DDD	2593	1.3976e-03	1	10	0.03030	0.990	3.3003	0.46125	0.00	------
8.81	Endosulfan II	0	0.00000000	1	10	0.03030	0.990	----------	0.00000	--------	------
8.95	4,4'-DDT	212639	0.10401728	1	10	0.03030	0.990	3.3003	34.32914	0.00	------
9.44	Endrin aldehyde	2258	1.3201e-03	1	10	0.03030	0.990	3.3003	0.43567	0.00	------
9.62	Methoxychlor	5895	5.7701e-03	1	10	0.03030	0.990	16.5017	1.90433	0.00	------
10.05	Endosulfan sulfate	0	0.00000000	1	10	0.03030	0.990	----------	0.00000	--------	------
10.39	Endrin ketone	36575	0.01555150	1	10	0.03030	0.990	3.3003	5.13251	0.00	------
11.51	Decachlorobiphenyl	188903	0.09512444	1	10	0.03030	0.990	3.3003	31.39420	39.60	79.3

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M91MS(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725012

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 21150619B083

% Moisture: 8.4 Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/23/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.12	J
319-85-7	beta-BHC	2.0	P
319-86-8	delta-BHC	0.44	JBP
58-89-9	gamma-BHC (Lindane)	17.	
76-44-8	Heptachlor	17.	
309-00-2	Aldrin	16.	
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	0.32	J
60-57-1	Dieldrin	35.	
72-55-9	4,4'-DDE	2.8	JP
72-20-8	Endrin	50.	P
33213-65-9	Endosulfan II	2.0	J
72-54-8	4,4'-DDD	3.5	JP
1031-07-8	Endosulfan sulfate	0.62	J
50-29-3	4,4'-DDT	35.	
72-43-5	Methoxychlor	4.3	JP
53494-70-5	Endrin ketone	3.3	JP
7421-93-4	Endrin aldehyde	1.3	JP
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	0.24	J
8001-35-2	Toxaphene	180	U

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:02:39
Operator	: sagers	Sample Name	: 1515725012
Sample Number	: 083	Study	: F9M91MS
AutoSampler	: HP7673A	Rack/Vial	: 0/83
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 19:49:39	Dilution Factor	: 1.00
		Cycle	: 15

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619B_083.raw
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Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150619\21_RPT_2UL\21_som_soil_sample_b.rpt
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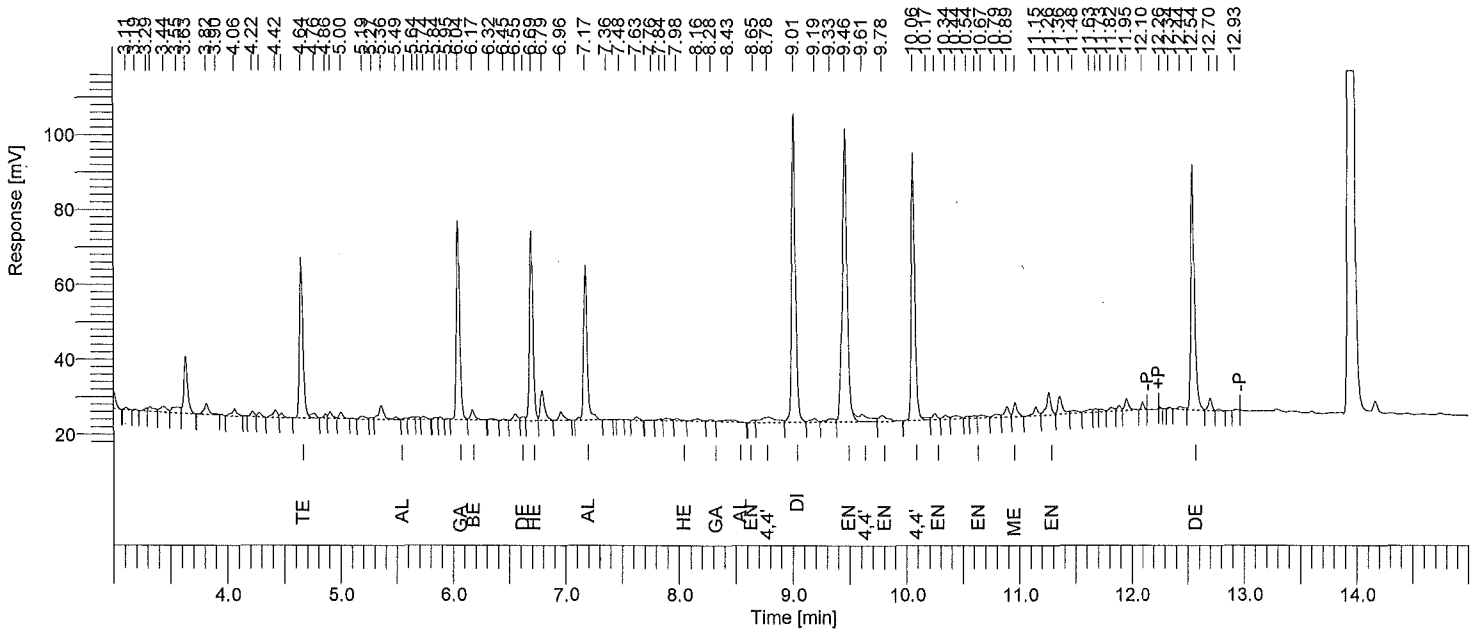

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.64	Tetrachloro-m-xylene	90877	0.04564979	1	10	0.03030	0.990	1.6502	15.06594	19.80	76.1
5.57	alpha-BHC	843	3.3743e-04	1	10	0.03030	0.990	1.6502	0.11136	0.00	------
6.04	gamma-BHC	108819	0.04762954	1	10	0.03030	0.990	1.6502	15.71932	0.00	------
6.17	beta-BHC	6675	5.4819e-03	1	10	0.03030	0.990	1.6502	1.80922	0.00	------
6.62	delta-BHC	2636	1.2081e-03	1	10	0.03030	0.990	1.6502	0.39871	0.00	------
6.69	Heptachlor	107608	0.04636878	1	10	0.03030	0.990	1.6502	15.30323	0.00	------
7.17	Aldrin	92552	0.04522422	1	10	0.03030	0.990	1.6502	14.92549	0.00	------
8.04	Heptachlor epoxide	0	0.00000000	1	10	0.03030	0.990	---------	0.00000	--------	------
8.28	gamma-Chlordane	1326	6.5234e-04	1	10	0.03030	0.990	1.6502	0.21529	0.00	------
8.54	alpha-Chlordane	0	0.00000000	1	10	0.03030	0.990	---------	0.00000	--------	------
8.65	Endosulfan I	1630	8.8858e-04	1	10	0.03030	0.990	1.6502	0.29326	0.00	------
8.78	4,4'-DDE	13905	7.6633e-03	1	10	0.03030	0.990	3.3003	2.52913	0.00	------
9.01	Dieldrin	184844	0.09788325	1	10	0.03030	0.990	3.3003	32.30470	0.00	------
9.46	Endrin	225906	0.13773751	1	10	0.03030	0.990	3.3003	45.45793	0.00	------
9.61	4,4'-DDD	14216	9.6120e-03	1	10	0.03030	0.990	3.3003	3.17227	0.00	------
9.78	Endosulfan II	8869	5.5192e-03	1	10	0.03030	0.990	3.3003	1.82151	0.00	------
10.06	4,4'-DDT	155462	0.09761005	1	10	0.03030	0.990	3.3003	32.21454	0.00	------
10.25	Endrin aldehyde	4548	3.5539e-03	1	10	0.03030	0.990	3.3003	1.17291	0.00	------
10.61	Endosulfan sulfate	2477	1.7127e-03	1	10	0.03030	0.990	3.3003	0.56523	0.00	------
10.96	Methoxychlor	9097	0.01180633	1	10	0.03030	0.990	16.5017	3.89648	0.00	------
11.26	Endrin ketone	16603	9.2190e-03	1	10	0.03030	0.990	3.3003	3.04259	0.00	------
12.54	Decachlorobiphenyl	145981	0.09373640	1	10	0.03030	0.990	3.3003	30.93610	39.60	78.1

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M91MSD(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725013

Sample wt/vol: 30.5 (g/mL) g Lab File ID: 21150619A084

% Moisture: 8.4 Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/23/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.16	JP
319-85-7	beta-BHC	1.7	JP
319-86-8	delta-BHC	0.68	JB
58-89-9	gamma-BHC (Lindane)	18.	
76-44-8	Heptachlor	17.	
309-00-2	Aldrin	18.	
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	30.	
72-55-9	4,4'-DDE	0.23	JP
72-20-8	Endrin	36.	
33213-65-9	Endosulfan II	0.19	JP
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
50-29-3	4,4'-DDT	36.	
72-43-5	Methoxychlor	1.6	JP
53494-70-5	Endrin ketone	3.7	P
7421-93-4	Endrin aldehyde	0.41	JP
5103-71-9	alpha-Chlordane	0.18	J
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:01:46
Operator	: sagers	Sample Name	: 1515725013
Sample Number	: 084	Study	: F9M91MSD
AutoSampler	: HP7673A	Rack/Vial	: 0/84
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 19:49:39	Dilution Factor	: 1.00
		Cycle	: 15

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150619\21_som12_pest_a from \\Alsltws012\TCCS\sagers\GCE21\21150619\21150619A_084.rst
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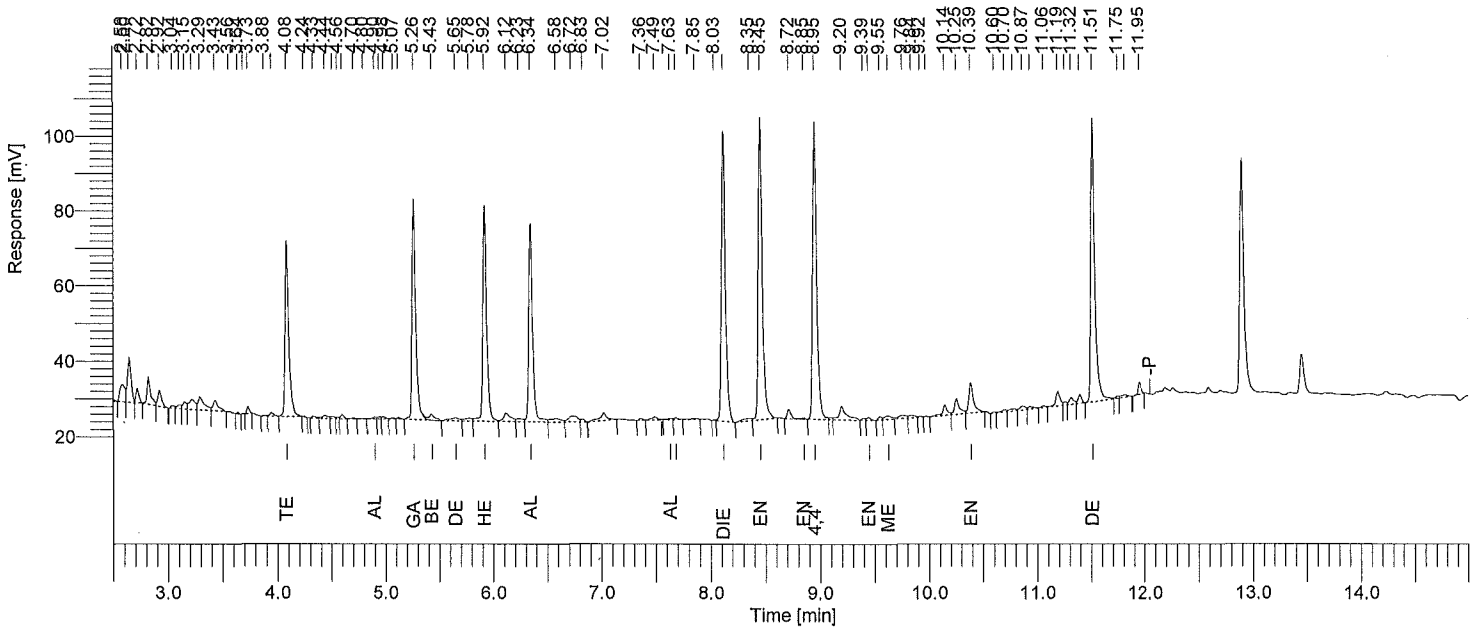

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.08	Tetrachloro-m-xylene	111928	0.04824140	1	10	0.03047	0.985	1.6410	15.83243	19.69	80.4
4.90	alpha-BHC	1333	4.4125e-04	1	10	0.03047	0.985	1.6410	0.14481	0.00	------
5.26	gamma-BHC	139282	0.04983531	1	10	0.03047	0.985	1.6410	16.35553	0.00	------
5.43	beta-BHC	6906	4.6822e-03	1	10	0.03047	0.985	1.6410	1.53666	0.00	------
5.65	delta-BHC	5157	1.8990e-03	1	10	0.03047	0.985	1.6410	0.62323	0.00	------
5.92	Heptachlor	142406	0.04814396	1	10	0.03047	0.985	1.6410	15.80045	0.00	------
6.34	Aldrin	132479	0.05086607	1	10	0.03047	0.985	1.6410	16.69382	0.00	------
7.24	Heptachlor epoxide	0	0.00000000	1	10	0.03047	0.985	----------	0.00000	--------	------
7.41	gamma-Chlordane	0	0.00000000	1	10	0.03047	0.985	----------	0.00000	--------	------
7.63	alpha-Chlordane	1273	4.8967e-04	1	10	0.03047	0.985	1.6410	0.16070	0.00	------
7.68	4,4'-DDE	1382	6.4181e-04	1	10	0.03047	0.985	3.2819	0.21064	0.00	------
7.80	Endosulfan I	0	0.00000000	1	10	0.03047	0.985	----------	0.00000	--------	------
8.12	Dieldrin	193867	0.08362187	1	10	0.03047	0.985	3.2819	27.44400	0.00	------
8.45	Endrin	208073	0.10186106	1	10	0.03047	0.985	3.2819	33.42995	0.00	------
8.58	4,4'-DDD	0	0.00000000	1	10	0.03047	0.985	----------	0.00000	--------	------
8.85	Endosulfan II	1046	5.1873e-04	1	10	0.03047	0.985	3.2819	0.17024	0.00	------
8.95	4,4'-DDT	204158	0.09986844	1	10	0.03047	0.985	3.2819	32.77599	0.00	------
9.44	Endrin aldehyde	1949	1.1393e-03	1	10	0.03047	0.985	3.2819	0.37392	0.00	------
9.62	Methoxychlor	4696	4.5970e-03	1	10	0.03047	0.985	16.4096	1.50869	0.00	------
10.05	Endosulfan sulfate	0	0.00000000	1	10	0.03047	0.985	----------	0.00000	--------	------
10.39	Endrin ketone	24170	0.01027714	1	10	0.03047	0.985	3.2819	3.37287	0.00	------
11.51	Decachlorobiphenyl	187918	0.09462818	1	10	0.03047	0.985	3.2819	31.05618	39.38	78.9

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M91MSD(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725013

Sample wt/vol: 30.5 (g/mL) g Lab File ID: 21150619B084

% Moisture: 8.4 Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/23/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.26	JP
319-85-7	beta-BHC	0.21	JP
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	17.	
76-44-8	Heptachlor	16.	
309-00-2	Aldrin	16.	
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	36.	
72-55-9	4,4'-DDE	1.3	JP
72-20-8	Endrin	39.	
33213-65-9	Endosulfan II	1.5	JP
72-54-8	4,4'-DDD	1.9	J
1031-07-8	Endosulfan sulfate	0.96	J
50-29-3	4,4'-DDT	35.	
72-43-5	Methoxychlor	4.7	JP
53494-70-5	Endrin ketone	2.6	JP
7421-93-4	Endrin aldehyde	1.3	JP
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	0.21	J
8001-35-2	Toxaphene	180	U

Software Version	: 6.3.1.0504	Date	: 06/24/2015 09:02:42
Operator	: sagers	Sample Name	: 1515725013
Sample Number	: 084	Study	: F9M91MSD
AutoSampler	: HP7673A	Rack/Vial	: 0/84
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.90 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 20:10:38	Dilution Factor	: 1.00
		Cycle	: 16

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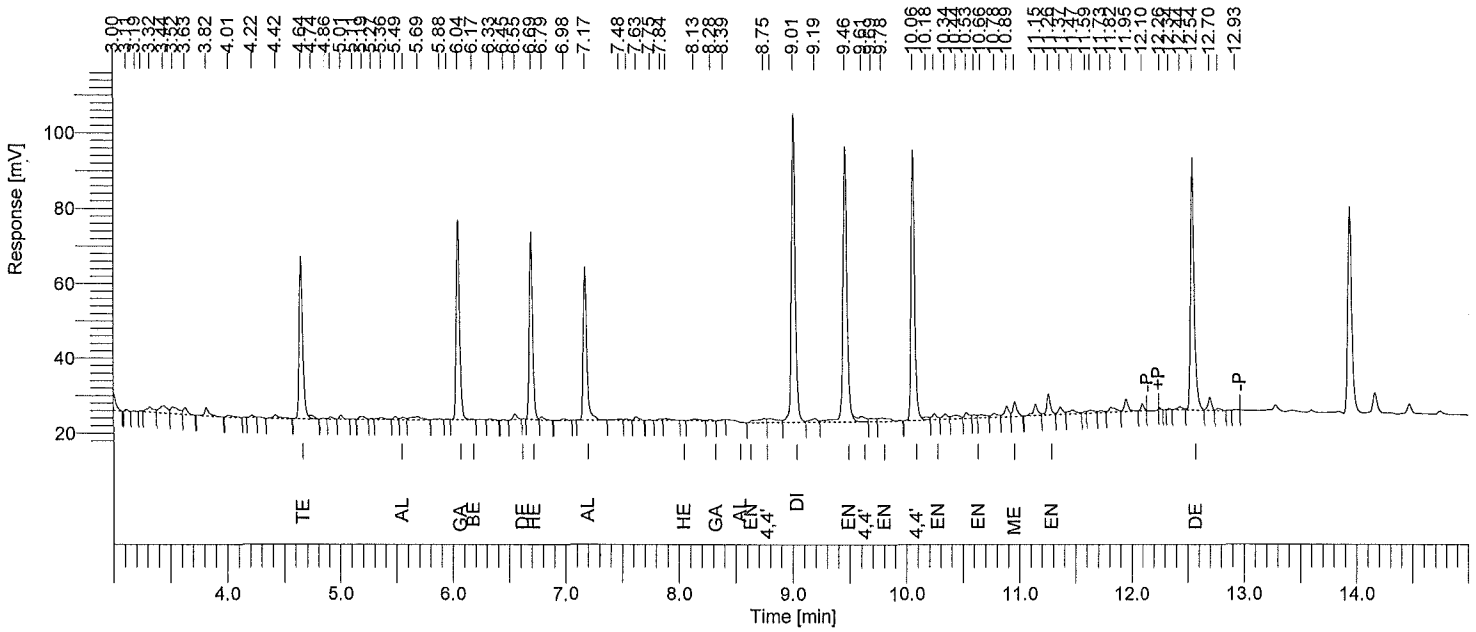

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.64	Tetrachloro-m-xylene	92513	0.04647145	1	10	0.03047	0.985	1.6410	15.25154	19.69	77.5
5.56	alpha-BHC	1845	7.3844e-04	1	10	0.03047	0.985	1.6410	0.24235	0.00	------
6.04	gamma-BHC	108784	0.04761443	1	10	0.03047	0.985	1.6410	15.62666	0.00	------
6.17	beta-BHC	700	5.7515e-04	1	10	0.03047	0.985	1.6410	0.18876	0.00	------
6.61	delta-BHC	0	0.00000000	1	10	0.03047	0.985	---------	0.00000	--------	------
6.69	Heptachlor	104246	0.04491978	1	10	0.03047	0.985	1.6410	14.74230	0.00	------
7.17	Aldrin	90695	0.04431673	1	10	0.03047	0.985	1.6410	14.54438	0.00	------
8.04	Heptachlor epoxide	0	0.00000000	1	10	0.03047	0.985	---------	0.00000	--------	------
8.28	gamma-Chlordane	1202	5.9112e-04	1	10	0.03047	0.985	1.6410	0.19400	0.00	------
8.54	alpha-Chlordane	0	0.00000000	1	10	0.03047	0.985	---------	0.00000	--------	------
8.63	Endosulfan I	0	0.00000000	1	10	0.03047	0.985	---------	0.00000	--------	------
8.75	4,4'-DDE	6771	3.7314e-03	1	10	0.03047	0.985	3.2819	1.22462	0.00	------
9.01	Dieldrin	188390	0.09976132	1	10	0.03047	0.985	3.2819	32.74083	0.00	------
9.46	Endrin	180735	0.11019616	1	10	0.03047	0.985	3.2819	36.16546	0.00	------
9.61	4,4'-DDD	7910	5.3484e-03	1	10	0.03047	0.985	3.2819	1.75530	0.00	------
9.78	Endosulfan II	6743	4.1958e-03	1	10	0.03047	0.985	3.2819	1.37702	0.00	------
10.06	4,4'-DDT	156708	0.09839240	1	10	0.03047	0.985	3.2819	32.29157	0.00	------
10.25	Endrin aldehyde	4565	3.5672e-03	1	10	0.03047	0.985	3.2819	1.17071	0.00	------
10.66	Endosulfan sulfate	3859	2.6679e-03	1	10	0.03047	0.985	3.2819	0.87560	0.00	------
10.96	Methoxychlor	10138	0.01315758	1	10	0.03047	0.985	16.4096	4.31821	0.00	------
11.26	Endrin ketone	13248	7.3562e-03	1	10	0.03047	0.985	3.2819	2.41424	0.00	------
12.54	Decachlorobiphenyl	151675	0.09739279	1	10	0.03047	0.985	3.2819	31.96350	39.38	81.2

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCSS1(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 451344

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 21150619A071

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/23/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.051	J
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	0.046	JBP
58-89-9	gamma-BHC (Lindane)	0.99	J
76-44-8	Heptachlor	0.052	J
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.3	J
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	2.3	J
72-55-9	4,4'-DDE	2.3	J
72-20-8	Endrin	2.6	J
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	0.25	J
1031-07-8	Endosulfan sulfate	2.1	J
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	0.36	J
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.3	J
8001-35-2	Toxaphene	170	U

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:36:34
Reprocess Number	: nasltw7087: 2219983		
Operator	: sagers		
Sample Number	: 071	Sample Name	: 451344
AutoSampler	: HP7673A	Study	: PLCSS1
Instrument Name	: GCE21	Rack/Vial	: 0/71
Instrument Serial #	: None	Channel	: A
Delay Time	: 0.00 min	A/D mV Range	: 1000
Sampling Rate	: 5.0000 pts/s	End Time	: 16.90 min
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 15:16:24	Dilution Factor	: 1.00
		Cycle	: 2

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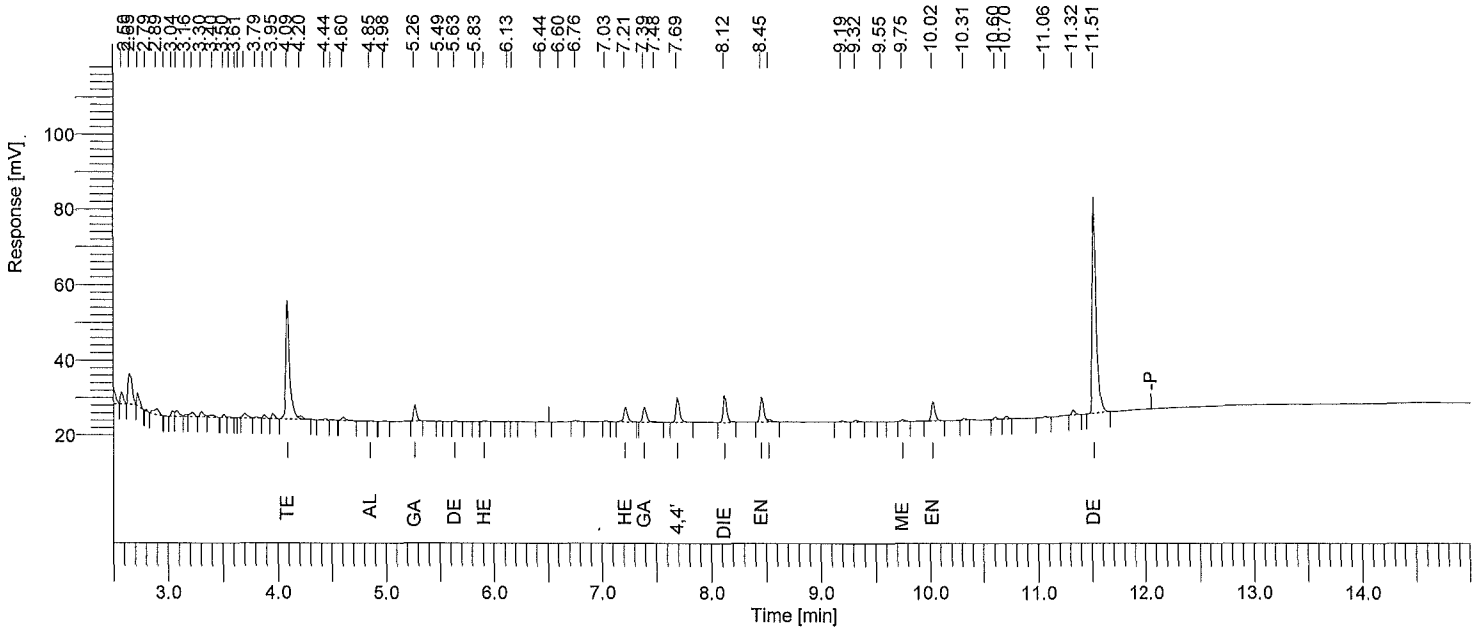

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL LCS REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Spike Targ ug/kg	Rec %
4.09	Tetrachloro-m-xylene	76260	0.03286833	1	10	0.03000	1.000	1.6667	10.95611	20.00	54.8
4.85	alpha-BHC	464	1.5370e-04	1	10	0.03000	1.000	1.6667	0.05123	0.00	-----
5.26	gamma-BHC	8274	2.9604e-03	1	10	0.03000	1.000	1.6667	0.98681	1.67	59.2
5.41	beta-BHC	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
5.63	delta-BHC	373	1.3738e-04	1	10	0.03000	1.000	1.6667	0.04579	0.00	-----
5.91	Heptachlor	462	1.5623e-04	1	10	0.03000	1.000	1.6667	0.05208	0.00	-----
6.37	Aldrin	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
7.21	Heptachlor epoxide	9972	4.0185e-03	1	10	0.03000	1.000	1.6667	1.33949	1.67	80.4
7.39	gamma-Chlordane	9651	3.7910e-03	1	10	0.03000	1.000	1.6667	1.26368	1.67	75.8
7.60	alpha-Chlordane	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
7.69	4,4'-DDE	15070	6.9975e-03	1	10	0.03000	1.000	3.3333	2.33250	3.33	70.0
7.80	Endosulfan I	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
8.12	Dieldrin	16239	7.0044e-03	1	10	0.03000	1.000	3.3333	2.33481	3.33	70.0
8.45	Endrin	15627	7.6503e-03	1	10	0.03000	1.000	3.3333	2.55010	3.33	76.5
8.52	4,4'-DDD	1379	7.4350e-04	1	10	0.03000	1.000	3.3333	0.24783	0.00	-----
8.81	Endosulfan II	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
8.98	4,4'-DDT	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
9.42	Endrin aldehyde	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
9.75	Methoxychlor	1108	1.0844e-03	1	10	0.03000	1.000	16.6667	0.36147	0.00	-----
10.02	Endosulfan sulfate	11831	6.4099e-03	1	10	0.03000	1.000	3.3333	2.13663	3.33	64.1
10.42	Endrin ketone	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
11.51	Decachlorobiphenyl	142072	0.07154223	1	10	0.03000	1.000	3.3333	23.84741	40.00	59.6

Surrogates 30 to 150%. g-BHC, Endrin, Endosulfan sulfate 50-120%. Dieldren, g-Chlordane 30-130%. Heptachlor Epoxide, DDE 50-150%. Aroclors 50-150%.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCSS1(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 451344

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 21150619B071

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/23/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	0.025	JBP
58-89-9	gamma-BHC (Lindane)	1.1	J
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.2	J
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	2.6	J
72-55-9	4,4'-DDE	2.3	J
72-20-8	Endrin	2.3	J
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	2.1	J
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17.	U
53494-70-5	Endrin ketone	0.076	J
7421-93-4	Endrin aldehyde	0.47	J
5103-71-9	alpha-Chlordane	0.049	J
5103-74-2	gamma-Chlordane	1.1	J
8001-35-2	Toxaphene	170	U

Software Version	: 6.3.1.0504	Date	: 06/23/2015 16:36:50
Reprocess Number	: nasltw7087: 2219986		
Operator	: sagers		
Sample Number	: 071	Sample Name	: 451344
AutoSampler	: HP7673A	Study	: PLCSS1
Instrument Name	: GCE21	Rack/Vial	: 0/71
Instrument Serial #	: None	Channel	: B
Delay Time	: 0.00 min	A/D mV Range	: 1000
Sampling Rate	: 5.0000 pts/s	End Time	: 16.90 min
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/23/2015 15:37:28	Dilution Factor	: 1.00
		Cycle	: 2

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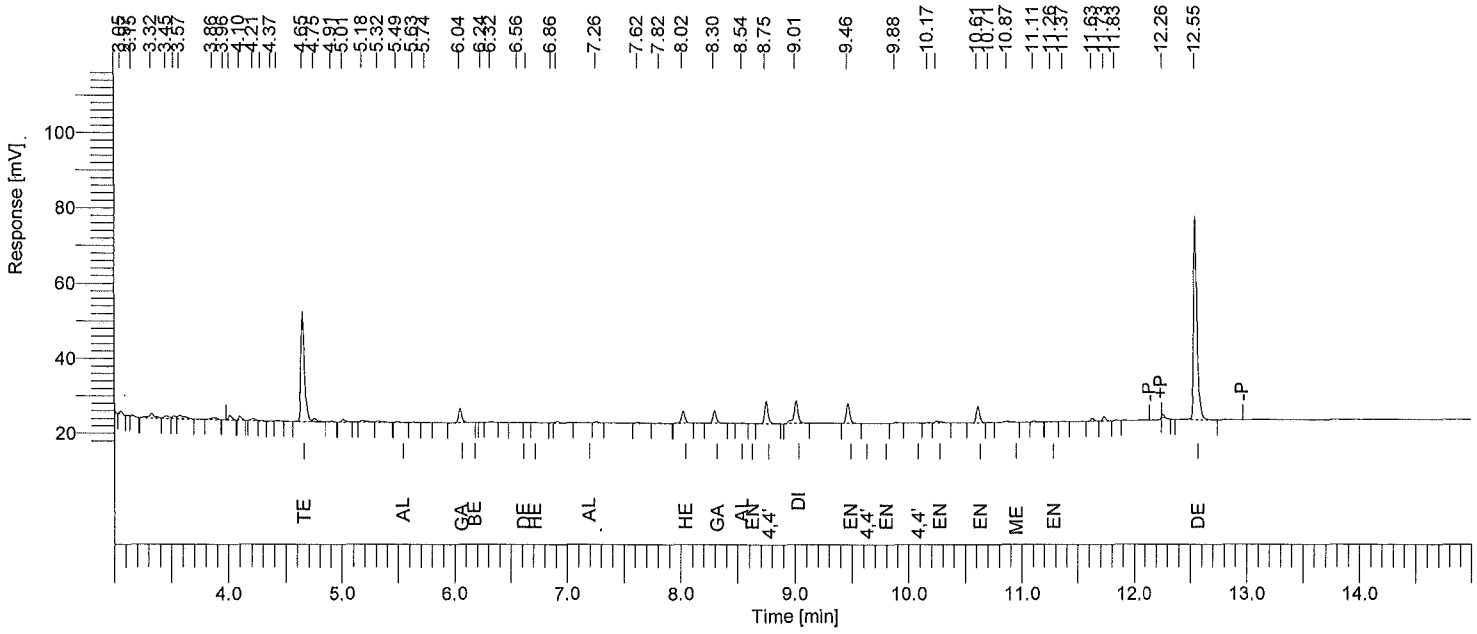


Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL LCS REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Spike Targ ug/kg	Rec %
4.65	Tetrachloro-m-xylene	64198	0.03224799	1	10	0.03000	1.000	1.6667	10.74933	20.00	53.7
5.54	alpha-BHC	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
6.04	gamma-BHC	7784	3.4071e-03	1	10	0.03000	1.000	1.6667	1.13569	1.67	68.1
6.18	beta-BHC	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
6.64	delta-BHC	166	7.5907e-05	1	10	0.03000	1.000	1.6667	0.02530	0.00	-----
6.72	Heptachlor	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
7.20	Aldrin	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
8.02	Heptachlor epoxide	6795	3.4689e-03	1	10	0.03000	1.000	1.6667	1.15632	1.67	69.4
8.30	gamma-Chlordane	6979	3.4330e-03	1	10	0.03000	1.000	1.6667	1.14434	1.67	68.7
8.54	alpha-Chlordane	298	1.4582e-04	1	10	0.03000	1.000	1.6667	0.04861	0.00	-----
8.63	Endosulfan I	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
8.75	4,4'-DDE	12410	6.8394e-03	1	10	0.03000	1.000	3.3333	2.27978	3.33	68.4
9.01	Dieldrin	14907	7.8942e-03	1	10	0.03000	1.000	3.3333	2.63139	3.33	78.9
9.46	Endrin	11487	7.0037e-03	1	10	0.03000	1.000	3.3333	2.33458	3.33	70.0
9.63	4,4'-DDD	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
9.80	Endosulfan II	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
10.08	4,4'-DDT	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
10.25	Endrin aldehyde	1822	1.4236e-03	1	10	0.03000	1.000	3.3333	0.47454	0.00	-----
10.61	Endosulfan sulfate	9073	6.2730e-03	1	10	0.03000	1.000	3.3333	2.09101	3.33	62.7
10.95	Methoxychlor	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
11.26	Endrin ketone	408	2.2662e-04	1	10	0.03000	1.000	3.3333	0.07554	0.00	-----
12.55	Decachlorobiphenyl	119070	0.07645670	1	10	0.03000	1.000	3.3333	25.48557	40.00	63.7

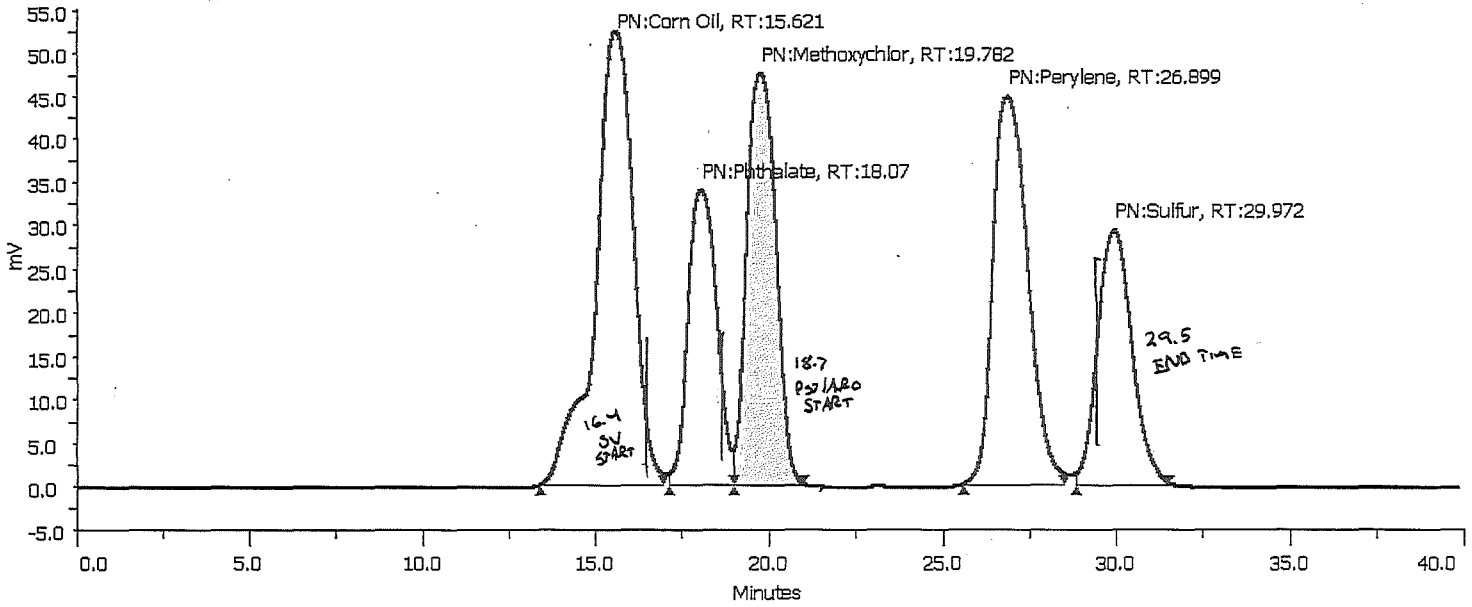
Surrogates 30 to 150%. g-BHC, Endrin, Endosulfan sulfate 50-120%. Dieldren, g-Chlordane 30-130%. Heptachlor Epoxide, DDE 50-150%. Aroclors 50-150%.

Graph

Sample Name	GPC 6 Weekly
Application Name	ALS GPC Methods Small FC (Administrator)
Method Name	UV Calibration Method Small
Configuration Name	GPC System With Detector
Version	7
Data Instrument Name	112 Detector Signal
Data Channel Name	254nm
Notes	
Injection Number	3

GPC 6 TRACE
SOMO 1.2/2.2
6/10/15
Lyle Edwards
STD # 195 WS 38823

App: ALS GPC Methods Small FC, Run: 06102015-144323 @ 6/10/2015 2:43:25 PM, Method: UV Calibration Method Small, Iter: 3, Inj: 3



Sample Table

Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC 6 Weekly	Sample Zone->1	Corn Oil	13.419	15.621	6599795	52.42	0	91.005
3	GPC 6 Weekly	Sample Zone->1	Phthalate	17.143	18.07	3232003.3333	33.78	91.005	89.251
3	GPC 6 Weekly	Sample Zone->1	Methoxychlor	19.002	19.782	4590595	47.46	89.251	292.266
3	GPC 6 Weekly	Sample Zone->1	Perylene	25.64	26.899	5200915.4167	44.72	292.266	110.175
3	GPC 6 Weekly	Sample Zone->1	Sulfur	28.846	29.972	3357179.1667	29.11	110.175	0

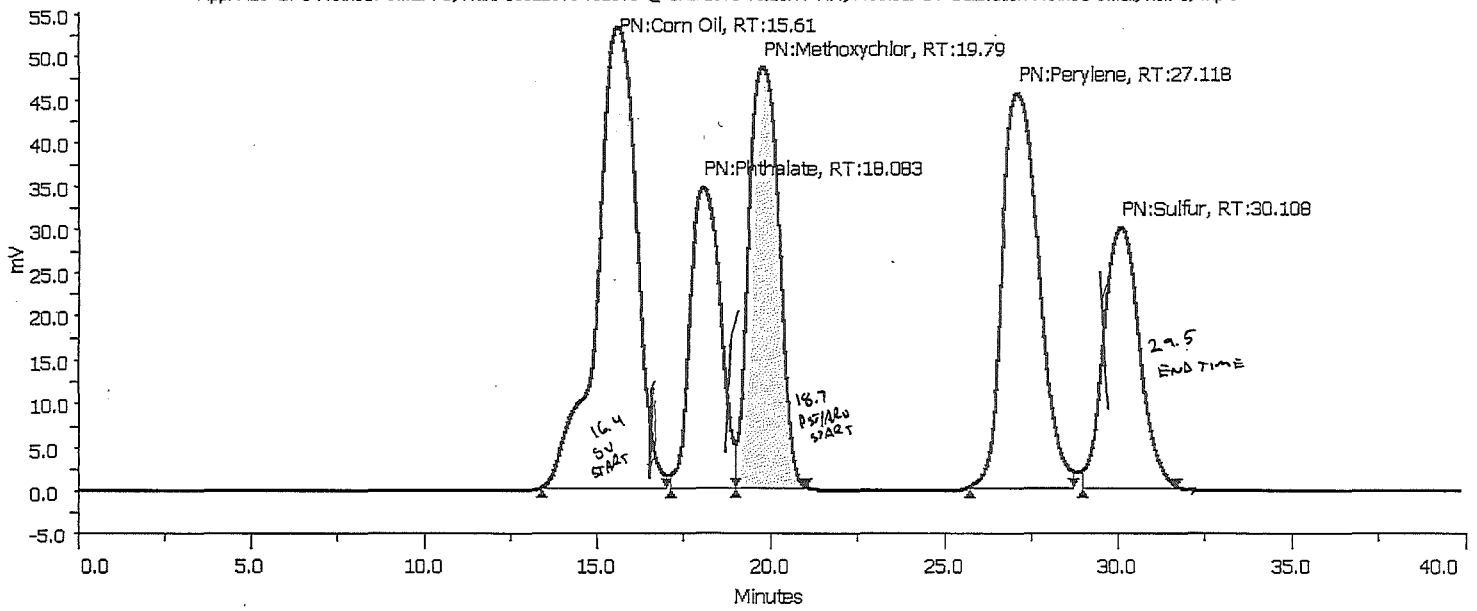
Run Variables

Graph

Sample Name	GPC 6 Weekly
Application Name	ALS GPC Methods Small FC (Administrator)
Method Name	UV Calibration Method Small
Configuration Name	GPC System With Detector
Version	7
Data Instrument Name	112 Detector Signal
Data Channel Name	254nm
Notes	
Injection Number	3

GPC 6 TRACE
Somo 1.2/2.2
6/2/15
Lyle Edwards
STD # 195WS38823

App: ALS GPC Methods Small FC, Run: 06022015-102813 @ 6/2/2015 10:28:17 AM, Method: UV Calibration Method Small, Iter: 3, Inj: 3



Sample Table

Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC 6 Weekly	Sample Zone->1	Corn Oil	13.388	15.61	6972078.75	53.12	0	90.862
3	GPC 6 Weekly	Sample Zone->1	Phthalate	17.154	18.083	3442194.1667	34.4	90.862	88.181
3	GPC 6 Weekly	Sample Zone->1	Methoxychlor	19.022	19.79	4877990.8333	48.33	88.181	293.687
3	GPC 6 Weekly	Sample Zone->1	Perylene	25.768	27.118	5509891.25	45.3	293.687	104.82
3	GPC 6 Weekly	Sample Zone->1	Sulfur	28.982	30.108	3573543.3333	29.85	104.82	0

Run Variables

Software Version	: 6.3.1.0504	Date	: 06/19/2015 17:22:37
Operator	: sagers	Sample Name	: GPC6PST0610
Sample Number	: 021	Study	:
AutoSampler	: HP7673A	Rack/Vial	: 0/21
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
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		Cycle	: 1

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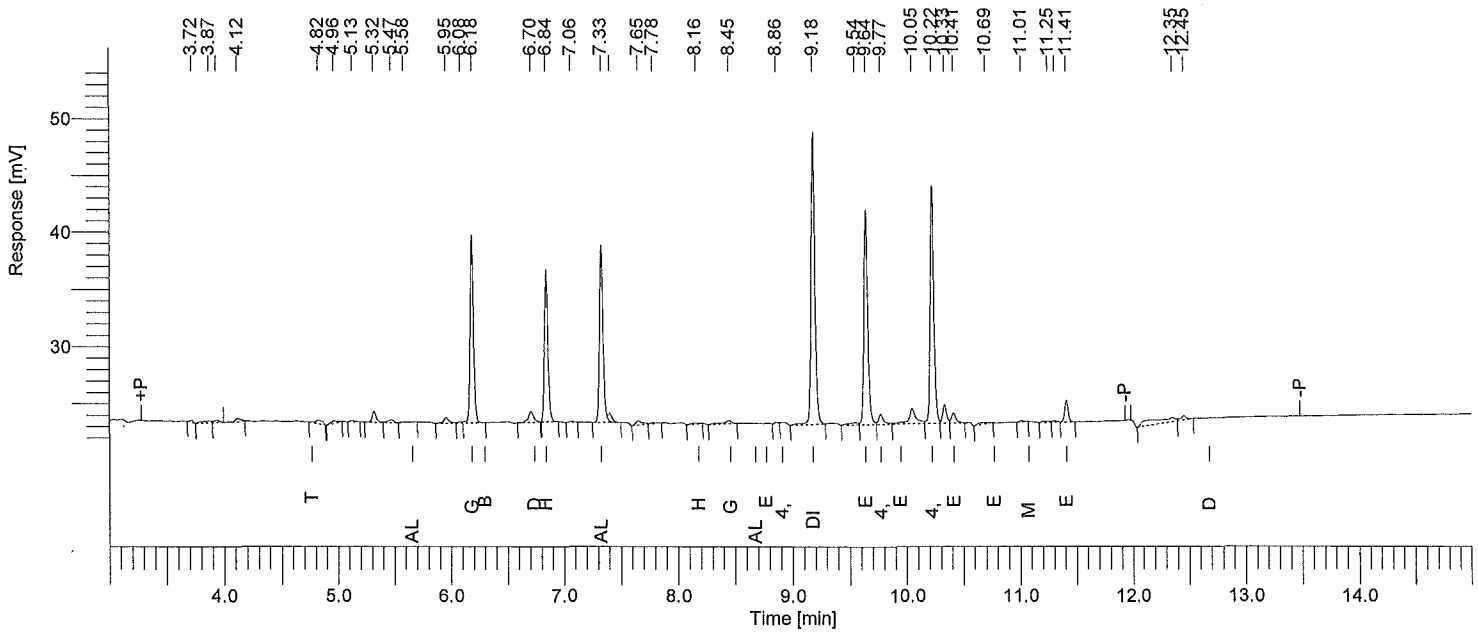

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO GPC CV REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/L	Target Amt ug/L	Recovery %
4.76	Tetrachloro-m-xylene	0	0.0000000	0.0000000	----------	------
5.65	alpha-BHC	0	0.0000000	0.0000000	----------	------
6.18	gamma-BHC	33531	0.0086077	0.0860765	0.1000000	86.1
6.30	beta-BHC	0	0.0000000	0.0000000	----------	------
6.70	delta-BHC	3289	0.0008902	0.0089018	0.1000000	8.9
6.84	Heptachlor	28521	0.0083953	0.0839534	0.1000000	84.0
7.33	Aldrin	33888	0.0098630	0.0986304	0.1000000	98.6
8.16	Heptachlor epoxide	464	0.0001498	0.0014978	0.1000000	1.5
8.45	gamma-Chlordane	1522	0.0004593	0.0045925	0.1000000	4.6
8.67	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
8.77	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.86	4,4'-DDE	170	0.0000556	0.0005562	0.2000000	0.3
9.18	Dieldrin	59710	0.0194222	0.1942224	0.2000000	97.1
9.64	Endrin	43892	0.0174967	0.1749667	0.2000000	87.5
9.77	4,4'-DDD	2929	0.0012026	0.0120261	0.2000000	6.0
9.94	Endosulfan II	0	0.0000000	0.0000000	----------	------
10.22	4,4'-DDT	45495	0.0181125	0.1811247	0.2000000	90.6
10.41	Endrin aldehyde	2619	0.0012424	0.0124239	0.2000000	6.2
10.69	Endosulfan sulfate	912	0.0004027	0.0040269	0.2000000	2.0
11.01	Methoxychlor	319	0.0002950	0.0029504	1.0000000	0.3
11.41	Endrin ketone	4273	0.0015451	0.0154507	0.2000000	7.7
12.68	Decachlorobiphenyl	0	0.0000000	0.0000000	----------	------

Recoveries 80-110%.

Software Version	: 6.3.1.0504	Date	: 06/19/2015 17:22:39
Operator	: sagers	Sample Name	: GPC6BLK0610
Sample Number	: 022	Study	:
AutoSampler	: HP7673A	Rack/Vial	: 0/22
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 02:11:37	Dilution Factor	: 1.00
		Cycle	: 2

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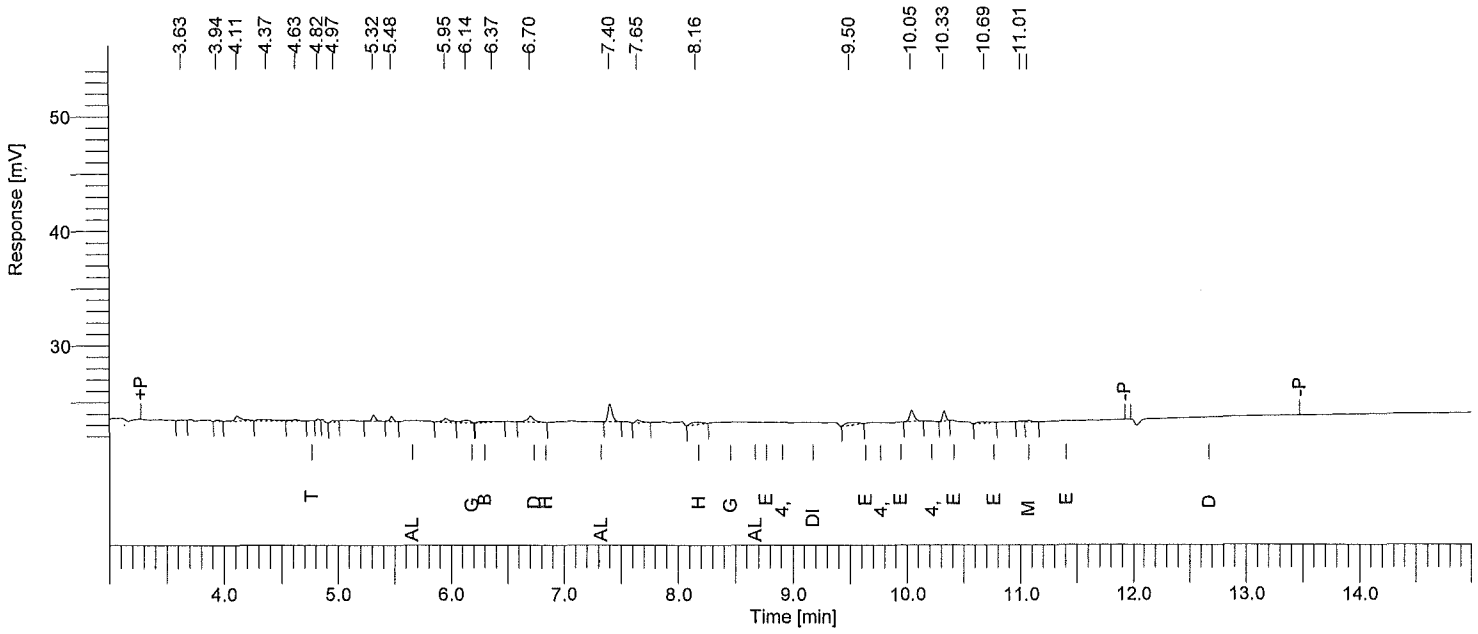

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO GPC BLK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L
4.76	Tetrachloro-m-xylene	0	0.000000000	1	10	1.000	1.000	--------	0.000000
5.65	alpha-BHC	0	0.000000000	1	10	1.000	1.000	--------	0.000000
6.14	gamma-BHC	1365	3.50339e-04	1	10	1.000	1.000	0.050000	0.003503
6.30	beta-BHC	0	0.000000000	1	10	1.000	1.000	--------	0.000000
6.70	delta-BHC	2213	5.98929e-04	1	10	1.000	1.000	0.050000	0.005989
6.84	Heptachlor	0	0.000000000	1	10	1.000	1.000	--------	0.000000
7.32	Aldrin	0	0.000000000	1	10	1.000	1.000	--------	0.000000
8.16	Heptachlor epoxide	1440	4.65115e-04	1	10	1.000	1.000	0.050000	0.004651
8.45	gamma-Chlordane	0	0.000000000	1	10	1.000	1.000	--------	0.000000
8.67	alpha-Chlordane	0	0.000000000	1	10	1.000	1.000	--------	0.000000
8.77	Endosulfan I	0	0.000000000	1	10	1.000	1.000	--------	0.000000
8.91	4,4'-DDE	0	0.000000000	1	10	1.000	1.000	--------	0.000000
9.17	Dieldrin	0	0.000000000	1	10	1.000	1.000	--------	0.000000
9.63	Endrin	0	0.000000000	1	10	1.000	1.000	--------	0.000000
9.77	4,4'-DDD	0	0.000000000	1	10	1.000	1.000	--------	0.000000
9.94	Endosulfan II	0	0.000000000	1	10	1.000	1.000	--------	0.000000
10.22	4,4'-DDT	0	0.000000000	1	10	1.000	1.000	--------	0.000000
10.41	Endrin aldehyde	0	0.000000000	1	10	1.000	1.000	--------	0.000000
10.76	Endosulfan sulfate	0	0.000000000	1	10	1.000	1.000	--------	0.000000
11.07	Methoxychlor	447	4.13475e-04	1	10	1.000	1.000	0.500000	0.004135
11.41	Endrin ketone	0	0.000000000	1	10	1.000	1.000	--------	0.000000
12.68	Decachlorobiphenyl	0	0.000000000	1	10	1.000	1.000	--------	0.000000

All analytes <CRQL.

Software Version	: 6.3.1.0504	Date	: 06/19/2015 14:54:04
Operator	: sagers	Sample Name	: RESCA2
Sample Number	: 004	Study	: 28313
AutoSampler	: HP7673A	Rack/Vial	: 0/4
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/18/2015 20:05:30	Dilution Factor	: 1.00
		Cycle	: 4

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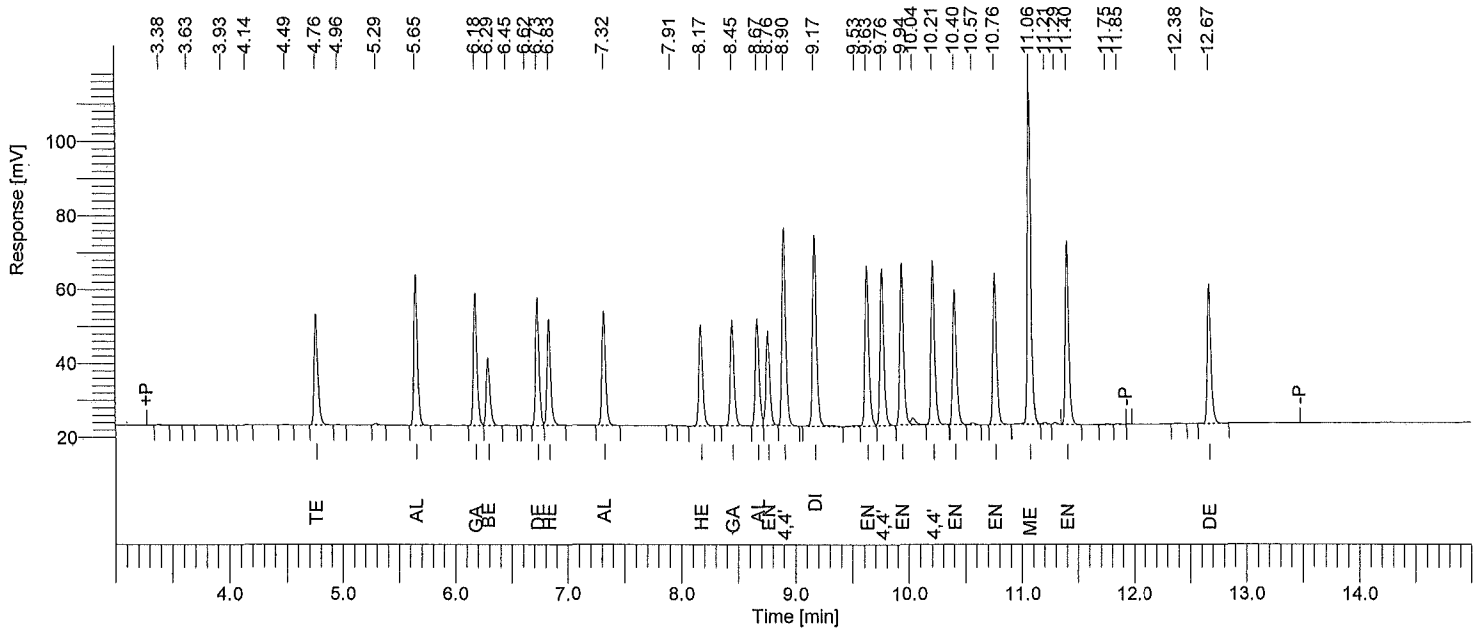

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.76	Tetrachloro-m-xylene	68294	0.0197847
5.65	alpha-BHC	86851	0.0201264
6.18	gamma-BHC	78048	0.0200354
6.29	beta-BHC	41945	0.0199201
6.73	delta-BHC	74427	0.0201439
6.83	Heptachlor	63076	0.0185671
7.32	Aldrin	69041	0.0200943
8.17	Heptachlor epoxide	62951	0.0203313
8.45	gamma-Chlordane	65793	0.0198473
8.67	alpha-Chlordane	66557	0.0199671
8.76	Endosulfan I	59173	0.0199786
8.90	4,4'-DDE	121087	0.0395675
9.17	Dieldrin	124965	0.0406481
9.63	Endrin	102768	0.0409663
9.76	4,4'-DDD	97404	0.0399986
9.94	Endosulfan II	102357	0.0397365
10.21	4,4'-DDT	97563	0.0388417
10.40	Endrin aldehyde	84264	0.0399786
10.76	Endosulfan sulfate	90026	0.0397321
11.06	Methoxychlor	197611	0.1829402
11.40	Endrin ketone	107871	0.0390043
12.67	Decachlorobiphenyl	86288	0.0396290

Software Version	: 6.3.1.0504	Date	: 06/19/2015 14:54:06
Operator	: sagers	Sample Name	: PEMA2
Sample Number	: 005	Study	: 28317
AutoSampler	: HP7673A	Rack/Vial	: 0/5
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/18/2015 20:26:04	Dilution Factor	: 1.00
		Cycle	: 5

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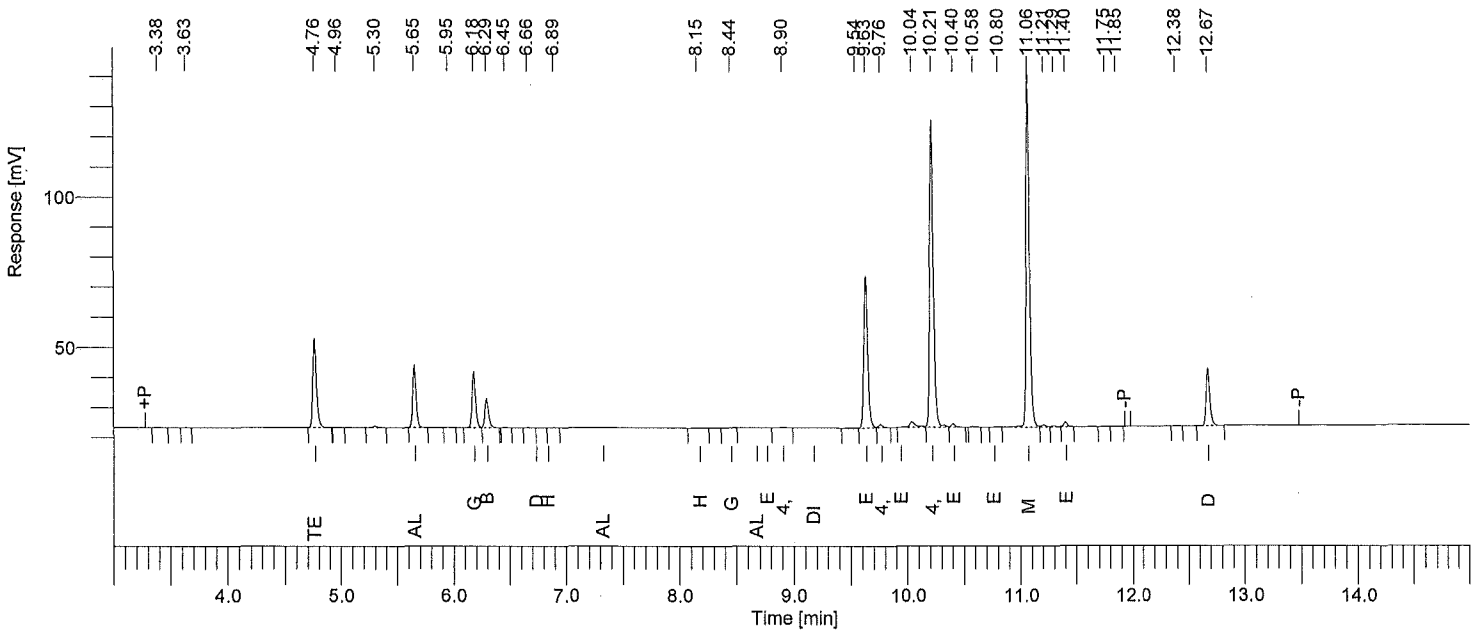

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.76	Tetrachloro-m-xylene	67725	0.0196200	0.0196200	0.02000	98.1
5.65	alpha-BHC	42891	0.0099393	0.0099393	0.01000	99.4
6.18	gamma-BHC	39727	0.0101981	0.0101981	0.01000	102.0
6.29	beta-BHC	22369	0.0106233	0.0106233	0.01000	106.2
6.73	delta-BHC	0	0.0000000	0.0000000	----------	------
6.84	Heptachlor	0	0.0000000	0.0000000	----------	------
7.32	Aldrin	0	0.0000000	0.0000000	----------	------
8.15	Heptachlor epoxide	382	0.0001234	0.0001234	0.00000	------
8.44	gamma-Chlordane	607	0.0001833	0.0001833	0.00000	------
8.67	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
8.77	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.90	4,4'-DDE	980	0.0003203	0.0003203	0.10000	0.3
9.17	Dieldrin	0	0.0000000	0.0000000	----------	------
9.63	Endrin	120623	0.0480841	0.0480841	0.05000	96.2
9.76	4,4'-DDD	2734	0.0011227	0.0011227	0.10000	1.1
9.94	Endosulfan II	0	0.0000000	0.0000000	----------	------
10.21	4,4'-DDT	231096	0.0920040	0.0920040	0.10000	92.0
10.40	Endrin aldehyde	2778	0.0013180	0.0013180	0.05000	2.6
10.80	Endosulfan sulfate	290	0.0001280	0.0001280	0.00000	------
11.06	Methoxychlor	246891	0.2285618	0.2285618	0.25000	91.4
11.40	Endrin ketone	3387	0.0012247	0.0012247	0.05000	2.4
12.67	Decachlorobiphenyl	44910	0.0206257	0.0206257	0.02000	103.1
			0.4440767			795.0

06/19/2015 14:54:06 Result: \\Alsltws012\TCCS\sagers\GCE31\31150618\31150618B_005.rst

Group Report For : 4,4'-DDT breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
8.90	4,4'-DDE	980	0.0003203	0.0003203	0.10000	0.3
9.76	4,4'-DDD	2734	0.0011227	0.0011227	0.10000	1.1
			0.0014429			1.4

Group Report For : Endrin breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
10.40	Endrin aldehyde	2778	0.0013180	0.0013180	0.05000	2.6
11.40	Endrin ketone	3387	0.0012247	0.0012247	0.05000	2.4
			0.0025428			5.1

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/19/2015 14:54:08
Operator	: sagers	Sample Name	: TOXAPH1A2
Sample Number	: 006	Study	: 28306
AutoSampler	: HP7673A	Rack/Vial	: 0/6
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/18/2015 20:46:26	Dilution Factor	: 1.00
		Cycle	: 6

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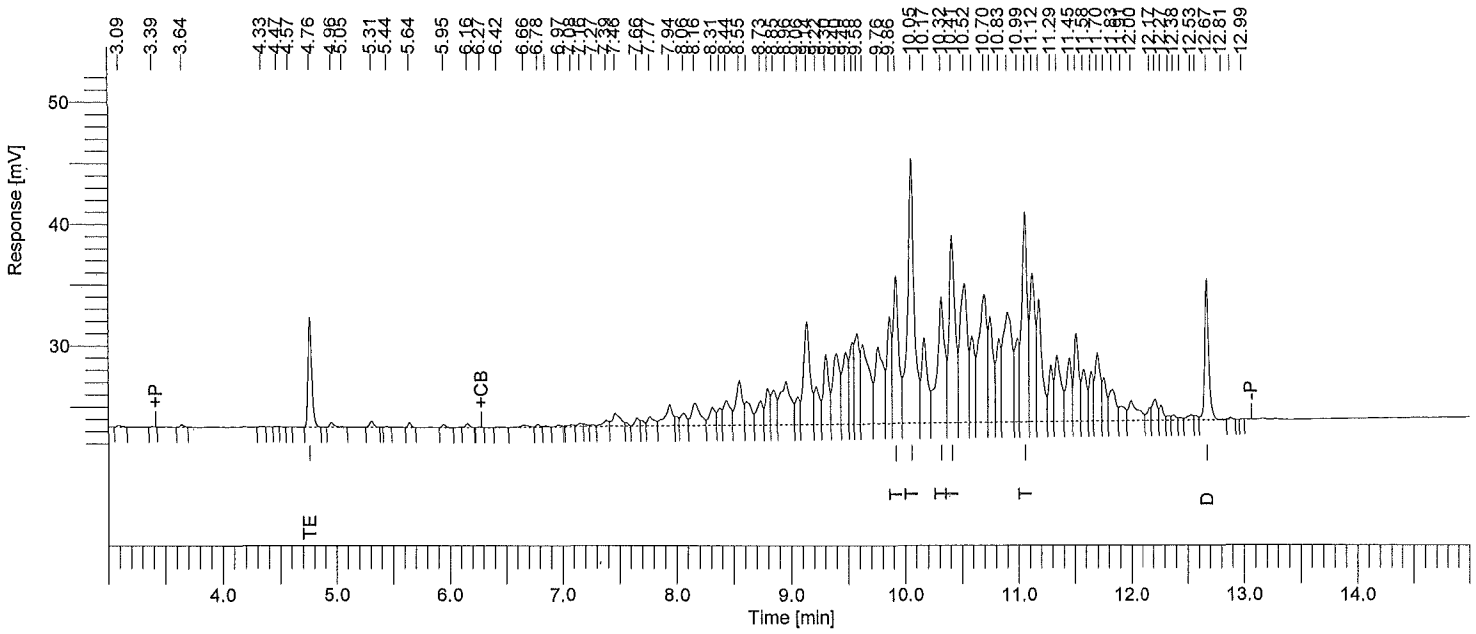

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.76	Tetrachloro-m-xylene	19935	0.0056389
9.92	Toxaphene-1	41678	0.5195752
10.05	Toxaphene-2	87806	0.5389156
10.32	Toxaphene-3	48380	0.5141710
10.41	Toxaphene-4	57156	0.5158972
11.06	Toxaphene-5	57502	0.5190105
12.67	Decachlorobiphenyl	29125	0.0114200

Software Version	: 6.3.1.0504	Date	: 06/19/2015 14:54:10
Operator	: sagers	Sample Name	: TOXAPH2A2
Sample Number	: 007	Study	: 28307
AutoSampler	: HP7673A	Rack/Vial	: 0/7
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/18/2015 21:07:00	Dilution Factor	: 1.00
		Cycle	: 7

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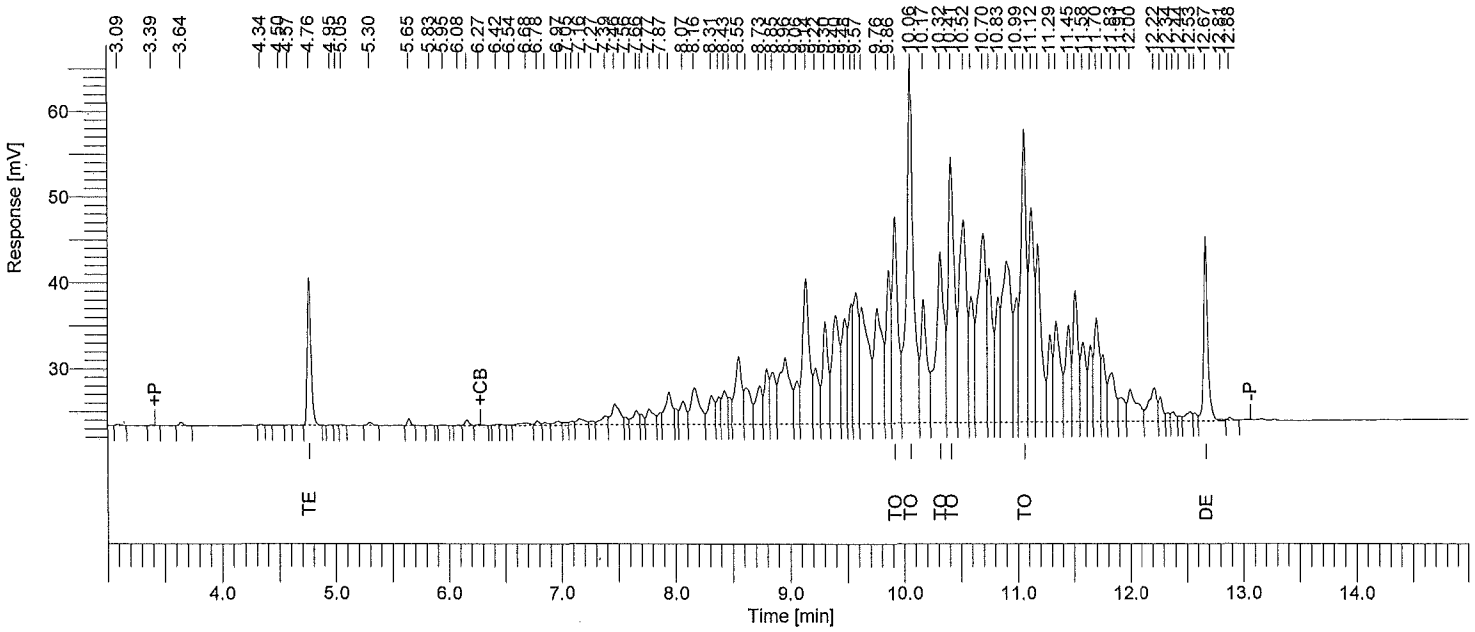

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.76	Tetrachloro-m-xylene	38799	0.0109751
9.92	Toxaphene-1	85604	1.0671668
10.06	Toxaphene-2	173877	1.0671870
10.32	Toxaphene-3	98932	1.0514207
10.41	Toxaphene-4	117272	1.0585209
11.06	Toxaphene-5	116375	1.0503843
12.67	Decachlorobiphenyl	54606	0.0214110

Software Version	: 6.3.1.0504	Date	: 06/19/2015 14:54:12
Operator	: sagers	Sample Name	: TOXAPH3A2
Sample Number	: 008	Study	: 28308
AutoSampler	: HP7673A	Rack/Vial	: 0/8
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/18/2015 21:27:20	Dilution Factor	: 1.00
		Cycle	: 8

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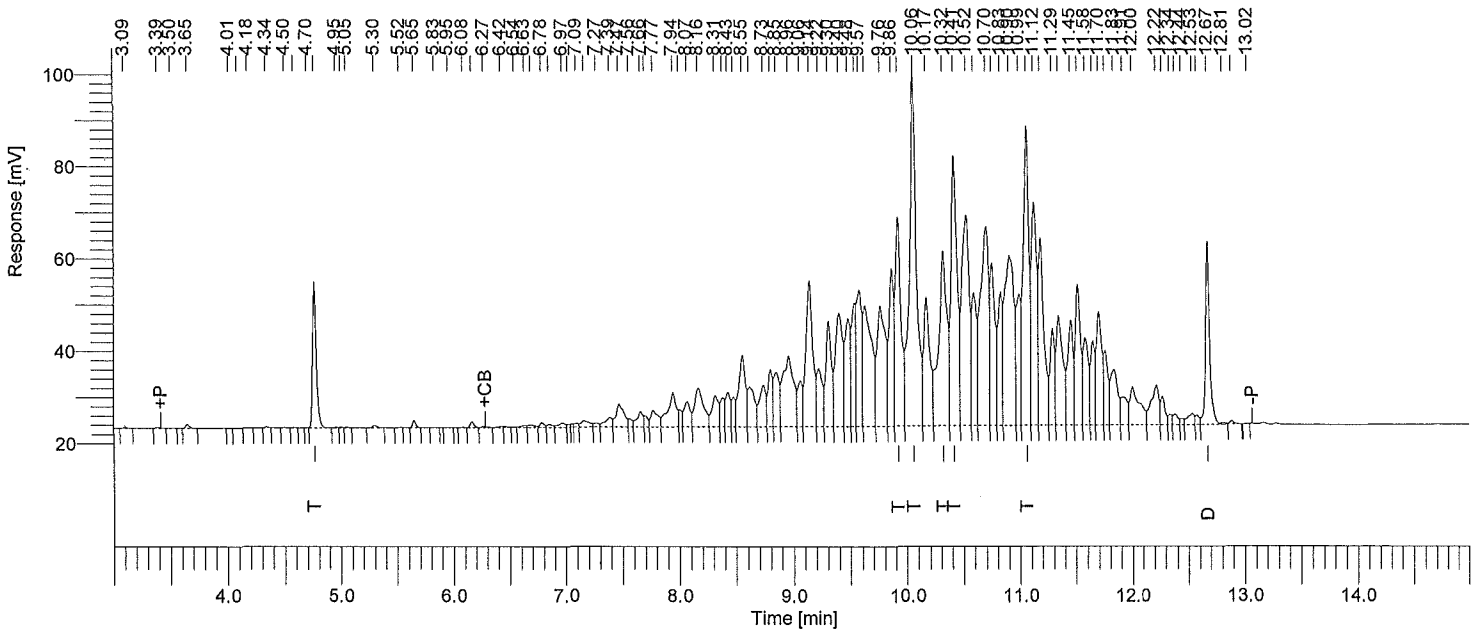

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.76	Tetrachloro-m-xylene	71992	0.0203644	0.0203644	0.0200000	101.8
9.92	Toxaphene-1	164713	2.0533548	2.0533548	2.0000000	102.7
10.06	Toxaphene-2	328265	2.0147555	2.0147555	2.0000000	100.7
10.32	Toxaphene-3	192865	2.0497243	2.0497243	2.0000000	102.5
10.41	Toxaphene-4	226550	2.0448814	2.0448814	2.0000000	102.2
11.06	Toxaphene-5	224797	2.0289883	2.0289883	2.0000000	101.4
12.67	Decachlorobiphenyl	102091	0.0400300	0.0400300	0.0400000	100.1

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/19/2015 14:54:14
Operator	: sagers	Sample Name	: TOXAPH4A2
Sample Number	: 009	Study	: 28309
AutoSampler	: HP7673A	Rack/Vial	: 0/9
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/18/2015 21:47:40	Dilution Factor	: 1.00
		Cycle	: 9

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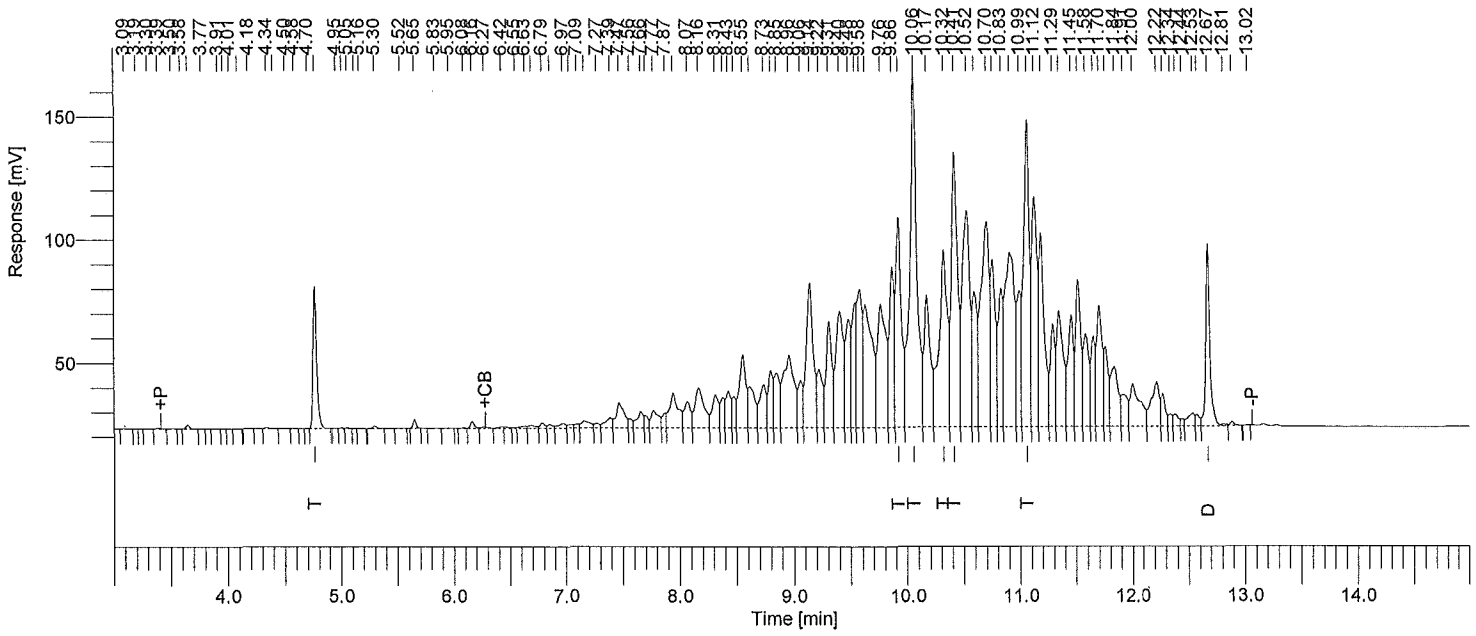

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.76	Tetrachloro-m-xylene	132365	0.0374422
9.92	Toxaphene-1	312233	3.8923850
10.06	Toxaphene-2	624927	3.8355489
10.32	Toxaphene-3	372031	3.9538553
10.41	Toxaphene-4	433218	3.9102995
11.06	Toxaphene-5	433282	3.9107550
12.67	Decachlorobiphenyl	192132	0.0753350

Software Version	: 6.3.1.0504	Date	: 06/19/2015 14:54:16
Operator	: sagers	Sample Name	: TOXAPH5A2
Sample Number	: 010	Study	: 28310
AutoSampler	: HP7673A	Rack/Vial	: 0/10
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/18/2015 22:08:12	Dilution Factor	: 1.00
		Cycle	: 10

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Proc Method : \\Alsltws012\TCCS\sagers\GCE31\31150618\31_som_tox_b.mth from \\Alsltws012\TCCS\sagers\GCE31\31150618\31150618B_010.rst
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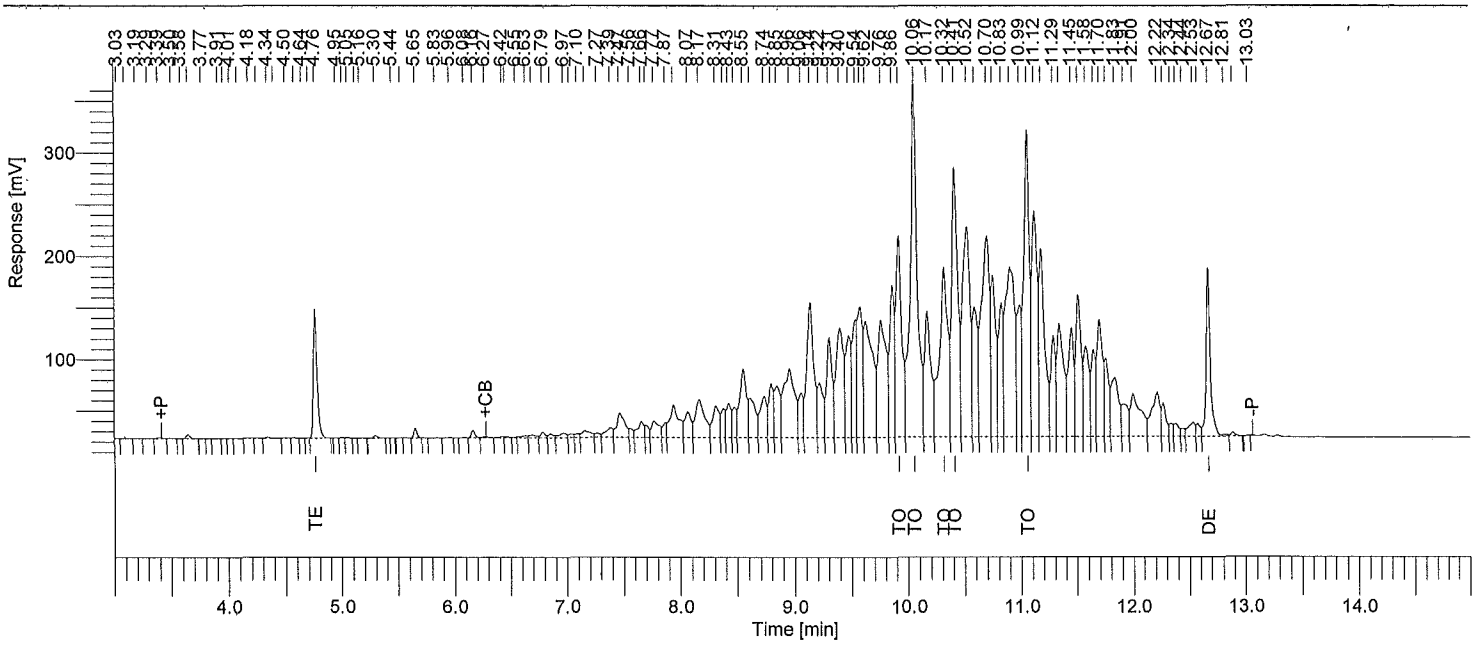

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.76	Tetrachloro-m-xylene	290040	0.0820435
9.92	Toxaphene-1	717062	8.9390915
10.06	Toxaphene-2	1447990	8.8871677
10.32	Toxaphene-3	853343	9.0691132
10.41	Toxaphene-4	1007813	9.0966909
11.06	Toxaphene-5	1018639	9.1941183
12.67	Decachlorobiphenyl	431021	0.1690031

Software Version	: 6.3.1.0504	Date	: 06/19/2015 14:54:19
Operator	: sagers	Sample Name	: INDC1A2
Sample Number	: 011	Study	: 28311
AutoSampler	: HP7673A	Rack/Vial	: 0/11
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/18/2015 22:28:28	Dilution Factor	: 1.00
		Cycle	: 11

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Proc Method : \\AlsItws012\TCCS\sagers\GCE31\31150618\31_som12_pest_b.mth from \\AlsItws012\TCCS\sagers\GCE31\31150618\31150618B_011.rst
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Report Format File: \\AlsItws012\TCCS\sagers\GCE31\31150618\31_RPT_2UL\31_som_std_b.rpt
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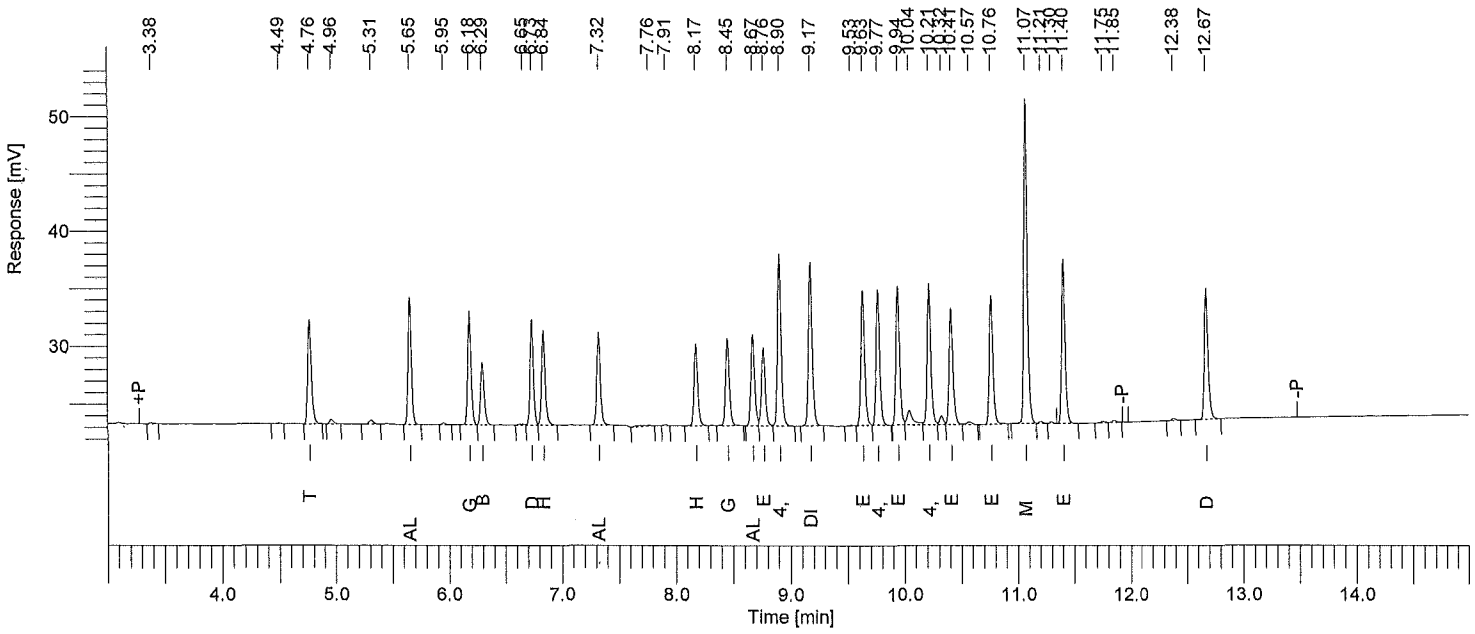

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.76	Tetrachloro-m-xylene	20008	0.0057965
5.65	alpha-BHC	21919	0.0050793
6.18	gamma-BHC	20492	0.0052605
6.29	beta-BHC	12147	0.0057689
6.73	delta-BHC	18733	0.0050702
6.84	Heptachlor	17967	0.0052889
7.32	Aldrin	17435	0.0050745
8.17	Heptachlor epoxide	15962	0.0051551
8.45	gamma-Chlordane	17309	0.0052216
8.67	alpha-Chlordane	17895	0.0053686
8.76	Endosulfan I	15541	0.0052470
8.90	4,4'-DDE	32972	0.0107744
9.17	Dieldrin	32542	0.0105852
9.63	Endrin	26725	0.0106533
9.77	4,4'-DDD	25889	0.0106314
9.94	Endosulfan II	27296	0.0105965
10.21	4,4'-DDT	27061	0.0107734
10.41	Endrin aldehyde	23629	0.0112106
10.76	Endosulfan sulfate	24234	0.0106952
11.07	Methoxychlor	58865	0.0544950
11.40	Endrin ketone	30481	0.0110212
12.67	Decachlorobiphenyl	26603	0.0122179

Software Version	: 6.3.1.0504	Date	: 06/19/2015 14:54:21
Operator	: sagers	Sample Name	: INDC2A2
Sample Number	: 012	Study	: 28312
AutoSampler	: HP7673A	Rack/Vial	: 0/12
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/18/2015 22:49:00	Dilution Factor	: 1.00
		Cycle	: 12

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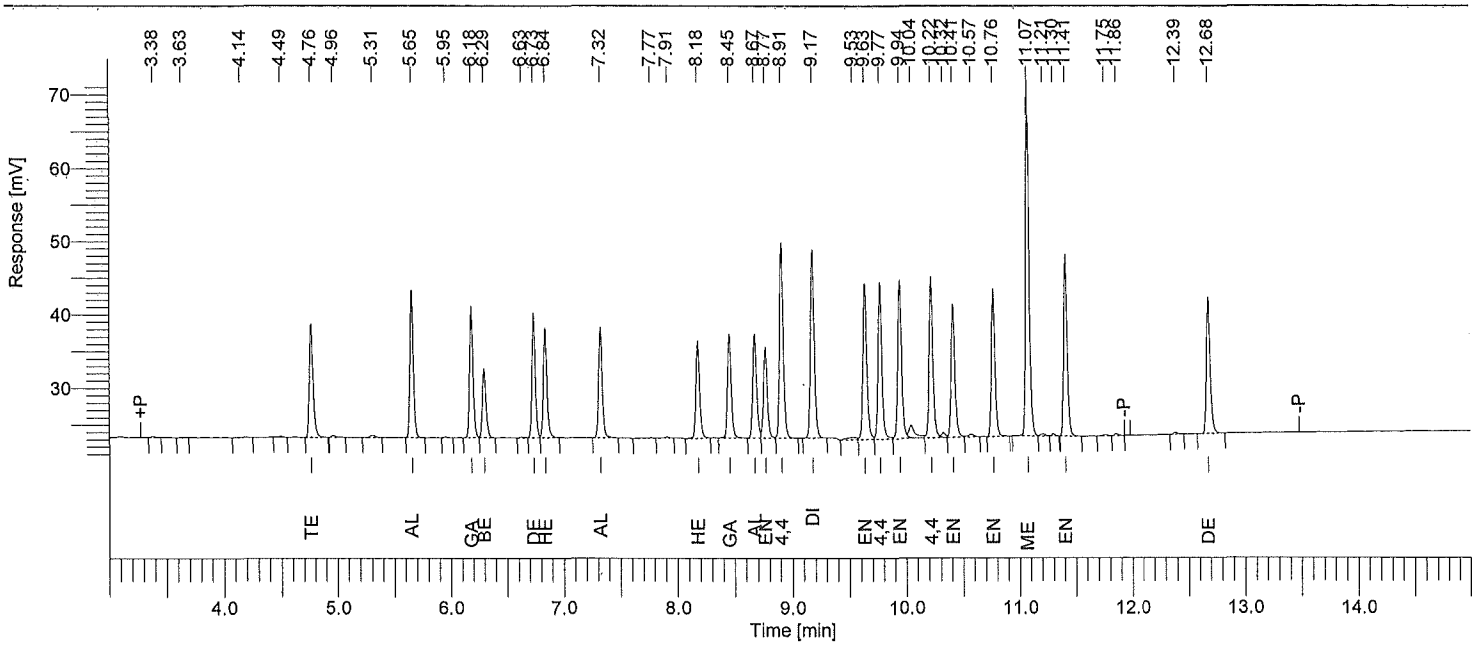
Calib Method : \\Alsltws012\TCCS\sagers\GCE31\31150618\31_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE31\31150618\31150618B_012.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE31\31150618\31_RPT_2UL\31_som_std_b.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE31\31150618\31150618_SOM012_PEST_F9M21_A.seq



Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.76	Tetrachloro-m-xylene	35014	0.0101435
5.65	alpha-BHC	41241	0.0095569
6.18	gamma-BHC	37504	0.0096275
6.29	beta-BHC	20974	0.0099605
6.73	delta-BHC	35324	0.0095604
6.84	Heptachlor	32529	0.0095753
7.32	Aldrin	32962	0.0095936
8.18	Heptachlor epoxide	30335	0.0097973
8.45	gamma-Chlordane	32289	0.0097404
8.67	alpha-Chlordane	32531	0.0097594
8.77	Endosulfan I	28741	0.0097038
8.91	4,4'-DDE	59667	0.0194972
9.17	Dieldrin	59236	0.0192682
9.63	Endrin	50363	0.0200761
9.77	4,4'-DDD	49454	0.0203081
9.94	Endosulfan II	50863	0.0197457
10.22	4,4'-DDT	49032	0.0195207
10.41	Endrin aldehyde	42547	0.0201861
10.76	Endosulfan sulfate	43848	0.0193518
11.07	Methoxychlor	101284	0.0937649
11.41	Endrin ketone	53756	0.0194372
12.68	Decachlorobiphenyl	43367	0.0199171

Software Version	: 6.3.1.0504	Date	: 06/19/2015 14:54:23
Operator	: sagers	Sample Name	: INDC3A2
Sample Number	: 013	Study	: 28313
AutoSampler	: HP7673A	Rack/Vial	: 0/13
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/18/2015 23:09:14	Dilution Factor	: 1.00
		Cycle	: 13

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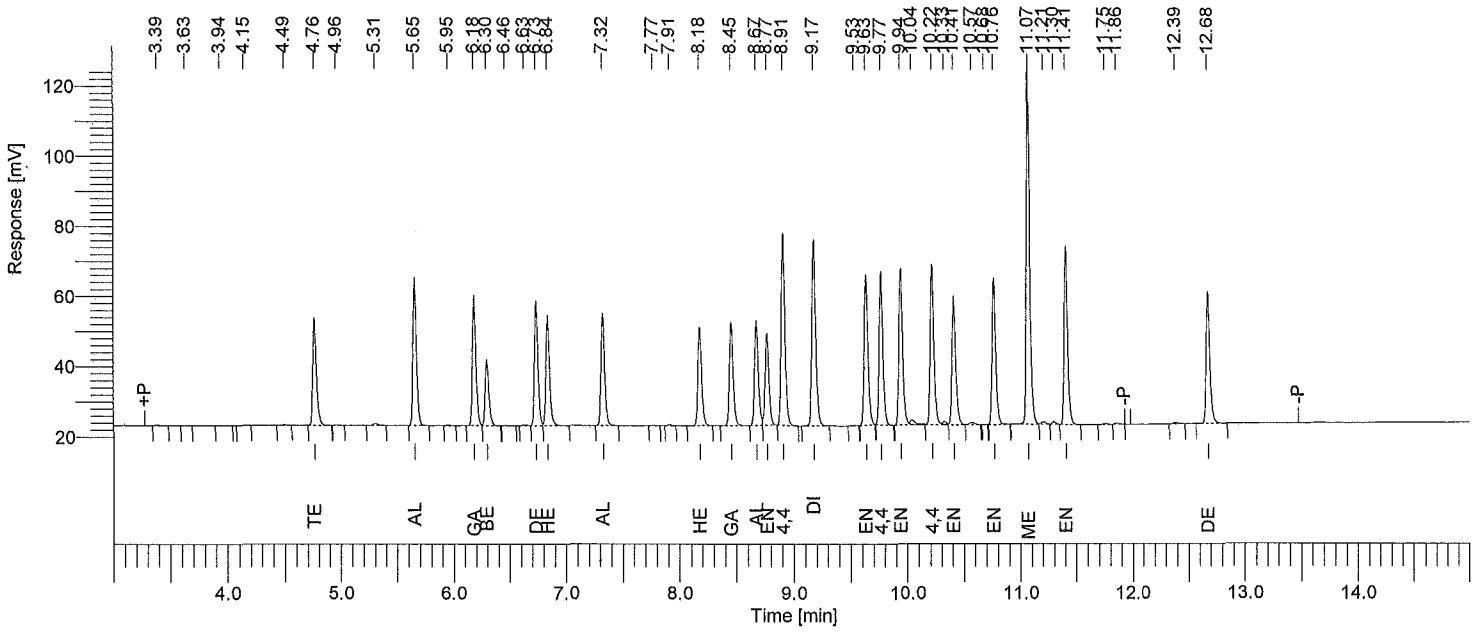

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.76	Tetrachloro-m-xylene	69648	0.0201772	0.0201772	0.0200000	100.9
5.65	alpha-BHC	89160	0.0206613	0.0206613	0.0200000	103.3
6.18	gamma-BHC	80246	0.0205998	0.0205998	0.0200000	103.0
6.30	beta-BHC	42998	0.0204198	0.0204198	0.0200000	102.1
6.73	delta-BHC	76775	0.0207794	0.0207794	0.0200000	103.9
6.84	Heptachlor	70115	0.0206391	0.0206391	0.0200000	103.2
7.32	Aldrin	70928	0.0206435	0.0206435	0.0200000	103.2
8.18	Heptachlor epoxide	64058	0.0206890	0.0206890	0.0200000	103.4
8.45	gamma-Chlordane	68136	0.0205543	0.0205543	0.0200000	102.8
8.67	alpha-Chlordane	68180	0.0204542	0.0204542	0.0200000	102.3
8.77	Endosulfan I	60358	0.0203788	0.0203788	0.0200000	101.9
8.91	4,4'-DDE	123800	0.0404538	0.0404538	0.0400000	101.1
9.17	Dieldrin	124756	0.0405802	0.0405802	0.0400000	101.5
9.63	Endrin	99641	0.0397201	0.0397201	0.0400000	99.3
9.77	4,4'-DDD	98197	0.0403244	0.0403244	0.0400000	100.8
9.94	Endosulfan II	104223	0.0404606	0.0404606	0.0400000	101.2
10.22	4,4'-DDT	101546	0.0404277	0.0404277	0.0400000	101.1
10.41	Endrin aldehyde	85245	0.0404441	0.0404441	0.0400000	101.1
10.76	Endosulfan sulfate	91458	0.0403640	0.0403640	0.0400000	100.9
11.07	Methoxychlor	210643	0.1950046	0.1950046	0.2000000	97.5
11.41	Endrin ketone	110819	0.0400701	0.0400701	0.0400000	100.2
12.68	Decachlorobiphenyl	86469	0.0397119	0.0397119	0.0400000	99.3

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/19/2015 14:54:25
Operator	: sagers	Sample Name	: INDC4A2
Sample Number	: 014	Study	: 28314
AutoSampler	: HP7673A	Rack/Vial	: 0/14
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/18/2015 23:29:32	Dilution Factor	: 1.00
		Cycle	: 14

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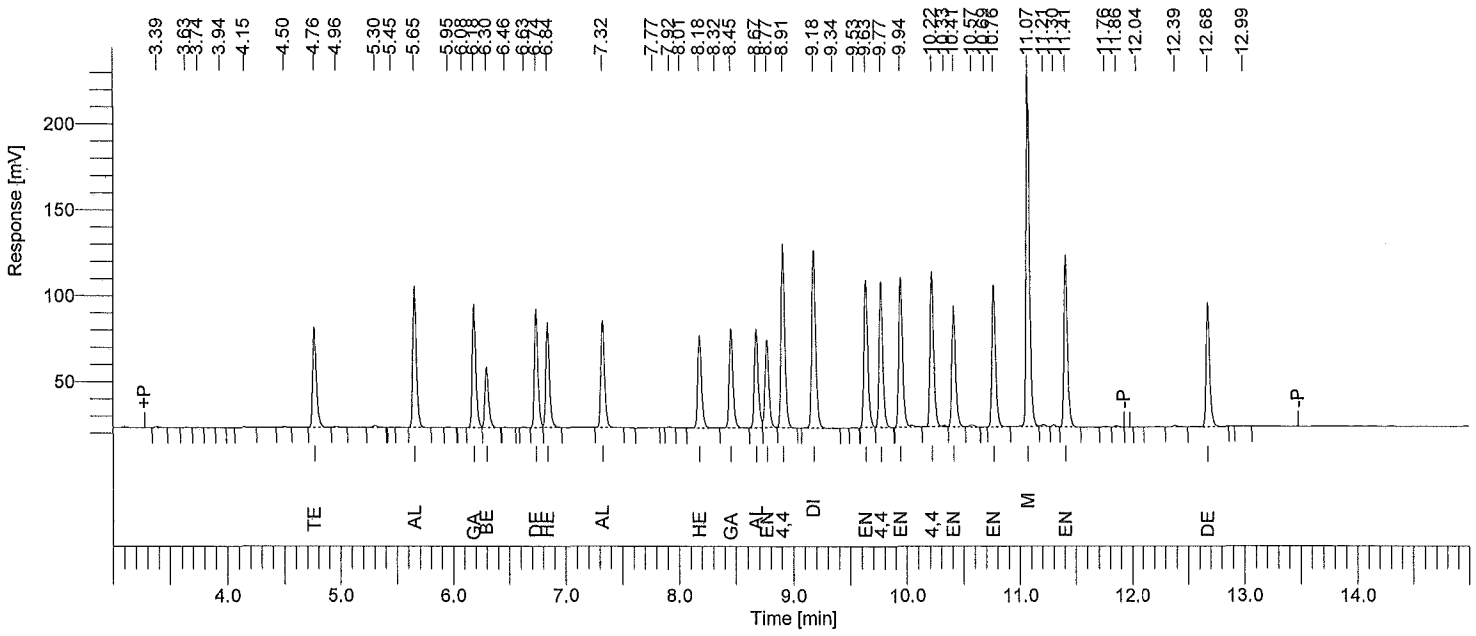

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.76	Tetrachloro-m-xylene	133154	0.0385748
5.65	alpha-BHC	177664	0.0411708
6.18	gamma-BHC	158034	0.0405683
6.30	beta-BHC	81385	0.0386502
6.74	delta-BHC	151718	0.0410628
6.84	Heptachlor	137205	0.0403874
7.32	Aldrin	142092	0.0413559
8.18	Heptachlor epoxide	125322	0.0404755
8.45	gamma-Chlordane	134163	0.0404724
8.67	alpha-Chlordane	133339	0.0400017
8.77	Endosulfan I	120176	0.0405751
8.91	4,4'-DDE	244254	0.0798143
9.18	Dieldrin	249702	0.0812224
9.63	Endrin	202404	0.0806843
9.77	4,4'-DDD	192380	0.0790003
9.94	Endosulfan II	207228	0.0804487
10.22	4,4'-DDT	198560	0.0790510
10.41	Endrin aldehyde	162547	0.0771199
10.76	Endosulfan sulfate	183157	0.0808344
11.07	Methoxychlor	427772	0.3960141
11.41	Endrin ketone	219428	0.0793409
12.68	Decachlorobiphenyl	165100	0.0758244

Software Version	: 6.3.1.0504	Date	: 06/19/2015 14:54:27
Operator	: sagers	Sample Name	: INDC5A2
Sample Number	: 015	Study	: 28315
AutoSampler	: HP7673A	Rack/Vial	: 0/15
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/18/2015 23:49:47	Dilution Factor	: 1.00
		Cycle	: 15

Raw Data File : \\Alsltws012\TCCS\sagers\GCE31\31150618\31150618B_015.raw <Modified>
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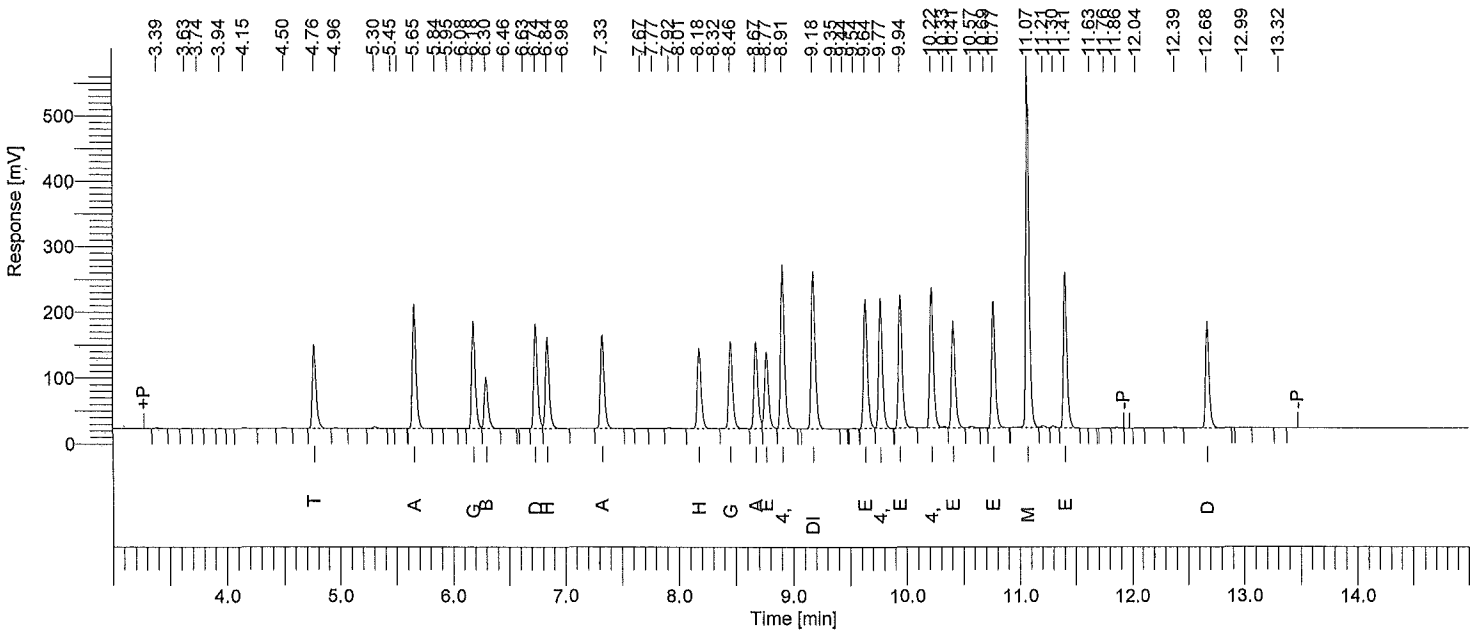
Report Format File: \\Alsltws012\TCCS\sagers\GCE31\31150618\31_RPT_2UL\31_som_std_b.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE31\31150618\31150618_SOM012_PEST_F9M21_A.seq



Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.76	Tetrachloro-m-xylene	294486	0.0853128
5.65	alpha-BHC	416903	0.0966107
6.18	gamma-BHC	366546	0.0940948
6.30	beta-BHC	181705	0.0862928
6.74	delta-BHC	356314	0.0964370
6.84	Heptachlor	320374	0.0943049
7.33	Aldrin	329730	0.0959676
8.18	Heptachlor epoxide	291947	0.0942903
8.46	gamma-Chlordane	312300	0.0942102
8.67	alpha-Chlordane	309192	0.0927579
8.77	Endosulfan I	280454	0.0946898
8.91	4,4'-DDE	574523	0.1877359
9.18	Dieldrin	583061	0.1896565
9.64	Endrin	466250	0.1858614
9.77	4,4'-DDD	450919	0.1851685
9.94	Endosulfan II	482178	0.1871879
10.22	4,4'-DDT	476134	0.1895589
10.41	Endrin aldehyde	377086	0.1789065
10.77	Endosulfan sulfate	427497	0.1886715
11.07	Methoxychlor	1088181	1.0073939
11.41	Endrin ketone	515793	0.1865009
12.68	Decachlorobiphenyl	366566	0.1683505

Software Version	: 6.3.1.0504	Date	: 06/19/2015 14:54:29
Operator	: sagers	Sample Name	: PIBLKB2
Sample Number	: 016	Study	: 28316
AutoSampler	: HP7673A	Rack/Vial	: 0/16
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 00:10:03	Dilution Factor	: 1.00
		Cycle	: 16

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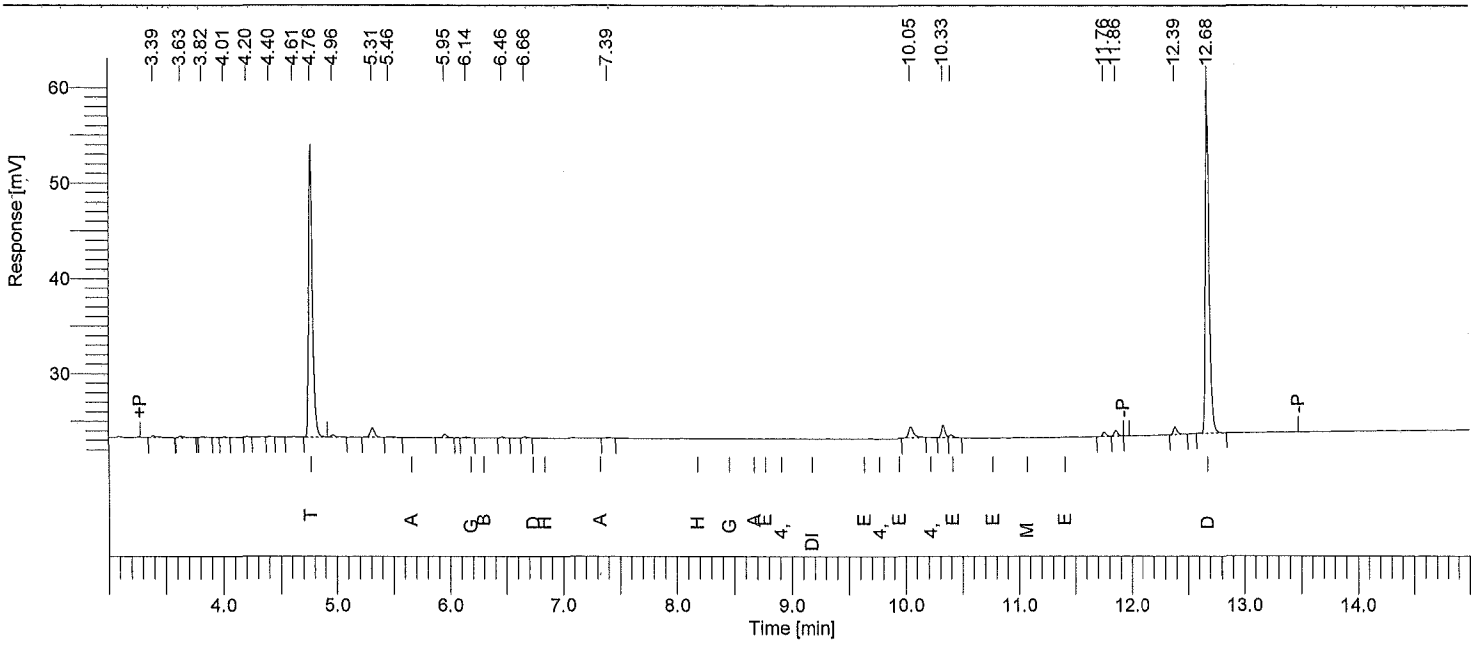

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
4.76	Tetrachloro-m-xylene	70533	0.020434	1	10	1.000	1.000	0.050000	0.204336	0.2000	102.2
5.65	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.14	gamma-BHC	272	6.97e-05	1	10	1.000	1.000	0.050000	0.000697	0.0000	-----
6.30	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.73	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.84	Heptachlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.32	Aldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.18	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.45	gamma-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.67	alpha-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.77	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.91	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.17	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.63	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.77	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.94	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.22	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.40	Endrin aldehyde	842	3.99e-04	1	10	1.000	1.000	0.100000	0.003995	0.0000	-----
10.76	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.07	Methoxychlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.41	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
12.68	Decachlorobiphenyl	84720	0.038909	1	10	1.000	1.000	0.100000	0.389089	0.4000	97.3

All analytes <CRQL.

Software Version	: 6.3.1.0504	Date	: 06/19/2015 14:54:31
Operator	: sagers	Sample Name	: PEMB2
Sample Number	: 017	Study	: 28317
AutoSampler	: HP7673A	Rack/Vial	: 0/17
Instrument Name	: GCE31	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 00:30:17	Dilution Factor	: 1.00
		Cycle	: 17

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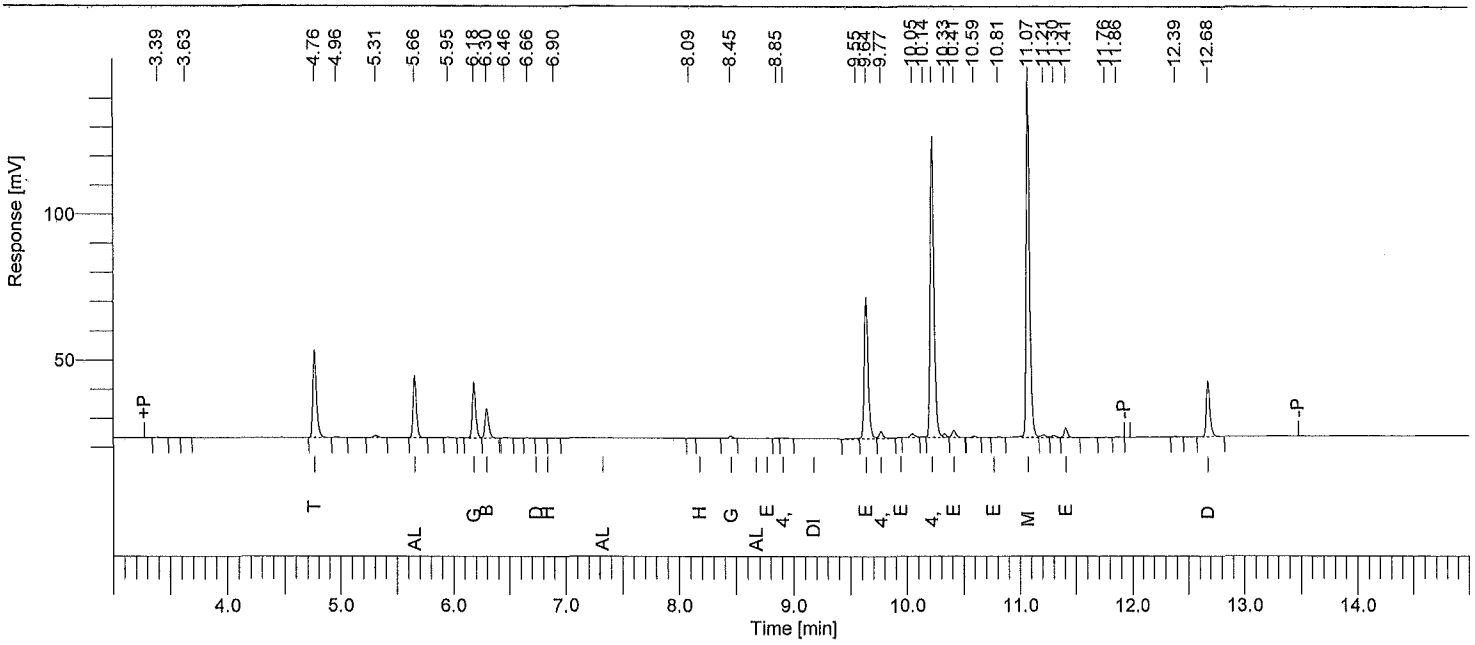

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.76	Tetrachloro-m-xylene	68564	0.0198630	0.0198630	0.02000	99.3
5.66	alpha-BHC	43806	0.0101515	0.0101515	0.01000	101.5
6.18	gamma-BHC	40600	0.0104223	0.0104223	0.01000	104.2
6.30	beta-BHC	22825	0.0108396	0.0108396	0.01000	108.4
6.73	delta-BHC	0	0.0000000	0.0000000	----------	------
6.84	Heptachlor	0	0.0000000	0.0000000	----------	------
7.32	Aldrin	0	0.0000000	0.0000000	----------	------
8.18	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
8.45	gamma-Chlordane	1779	0.0005367	0.0005367	0.00000	------
8.67	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
8.77	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.91	4,4'-DDE	909	0.0002970	0.0002970	0.10000	0.3
9.17	Dieldrin	0	0.0000000	0.0000000	----------	------
9.64	Endrin	115152	0.0459031	0.0459031	0.05000	91.8
9.77	4,4'-DDD	6144	0.0025232	0.0025232	0.10000	2.5
9.94	Endosulfan II	0	0.0000000	0.0000000	----------	------
10.22	4,4'-DDT	232139	0.0924193	0.0924193	0.10000	92.4
10.41	Endrin aldehyde	6105	0.0028966	0.0028966	0.05000	5.8
10.81	Endosulfan sulfate	788	0.0003479	0.0003479	0.00000	------
11.07	Methoxychlor	257574	0.2384516	0.2384516	0.25000	95.4
11.41	Endrin ketone	7261	0.0026255	0.0026255	0.05000	5.3
12.68	Decachlorobiphenyl	44708	0.0205327	0.0205327	0.02000	102.7
			0.4578100			809.6

06/19/2015 14:54:31 Result: \\Alsltws012\TCCS\sagers\GCE31\31150618\31150618B_017.rst

Group Report For : 4,4'-DDT breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
8.91	4,4'-DDE	909	0.0002970	0.0002970	0.10000	0.3
9.77	4,4'-DDD	6144	0.0025232	0.0025232	0.10000	2.5
			0.0028202			2.8

Group Report For : Endrin breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
10.41	Endrin aldehyde	6105	0.0028966	0.0028966	0.05000	5.8
11.41	Endrin ketone	7261	0.0026255	0.0026255	0.05000	5.3
			0.0055221			11.0

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 08/09/2015 14:27:26
Operator	: sagers	Sample Name	: FLO24680
Sample Number	: 020	Study	:
AutoSampler	: HP7673A	Rack/Vial	: 0/20
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/10/2015 04:09:58	Dilution Factor	: 1.00
		Cycle	: 4

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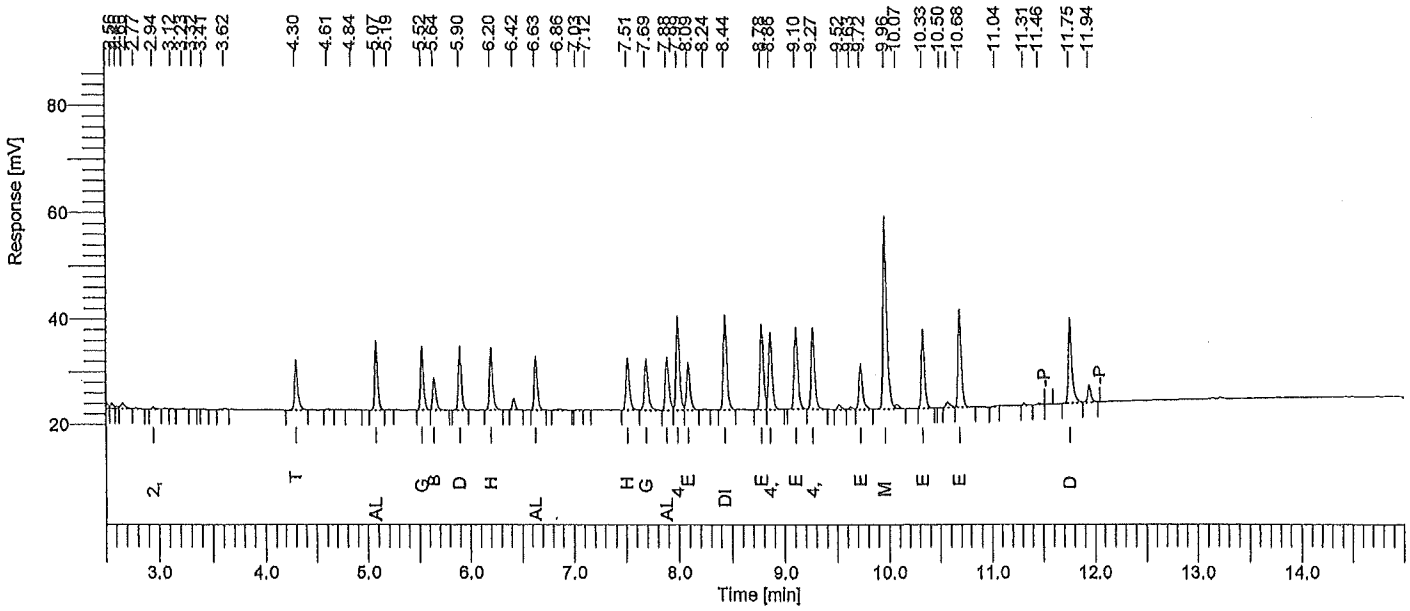

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST FLORISIL VALIDATION REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
2.94	2,4,5-Trichlorophenol	622	0.0003291	0.0003291	0.0500000	0.7
4.30	Tetrachloro-m-xylene	21737	0.0103748	0.0103748	0.0100000	103.7
5.07	alpha-BHC	25920	0.0098960	0.0098960	0.0100000	99.0
5.52	gamma-BHC	24547	0.0101501	0.0101501	0.0100000	101.5
5.64	beta-BHC	13372	0.0105385	0.0105385	0.0100000	105.4
5.90	delta-BHC	24268	0.0104283	0.0104283	0.0100000	104.3
6.20	Heptachlor	25992	0.0106074	0.0106074	0.0100000	106.1
6.63	Aldrin	21705	0.0097923	0.0097923	0.0100000	97.9
7.51	Heptachlor epoxide	22655	0.0106522	0.0106522	0.0100000	106.5
7.69	gamma-Chlordane	23032	0.0105937	0.0105937	0.0100000	105.9
7.88	alpha-Chlordane	23598	0.0105608	0.0105608	0.0100000	105.6
7.99	4,4'-DDE	40486	0.0209171	0.0209171	0.0200000	104.6
8.09	Endosulfan I	21418	0.0105319	0.0105319	0.0100000	105.3
8.44	Dieldrin	41840	0.0212793	0.0212793	0.0200000	106.4
8.78	Endrin	37075	0.0226288	0.0226288	0.0200000	113.1
8.86	4,4'-DDD	34348	0.0211190	0.0211190	0.0200000	105.6
9.10	Endosulfan II	37049	0.0209999	0.0209999	0.0200000	105.0
9.27	4,4'-DDT	36597	0.0214857	0.0214857	0.0200000	107.4
9.72	Endrin aldehyde	22173	0.0155352	0.0155352	0.0200000	77.7
9.96	Methoxychlor	93054	0.1129458	0.1129458	0.1000000	112.9
10.33	Endosulfan sulfate	34274	0.0215057	0.0215057	0.0200000	107.5
10.68	Endrin ketone	42957	0.0219026	0.0219026	0.0200000	109.5
11.75	Decachlorobiphenyl	39065	0.0233192	0.0233192	0.0200000	116.6

All Mix A analytes <= to +/-20%.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:27:31
Operator	: sagers	Sample Name	: 245TCP 0.10 UG/ML
Sample Number	: 018	Study	:
AutoSampler	: HP7673A	Rack/Vial	: 0/18
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 03/10/2015 03:27:04	Cycle	: 2

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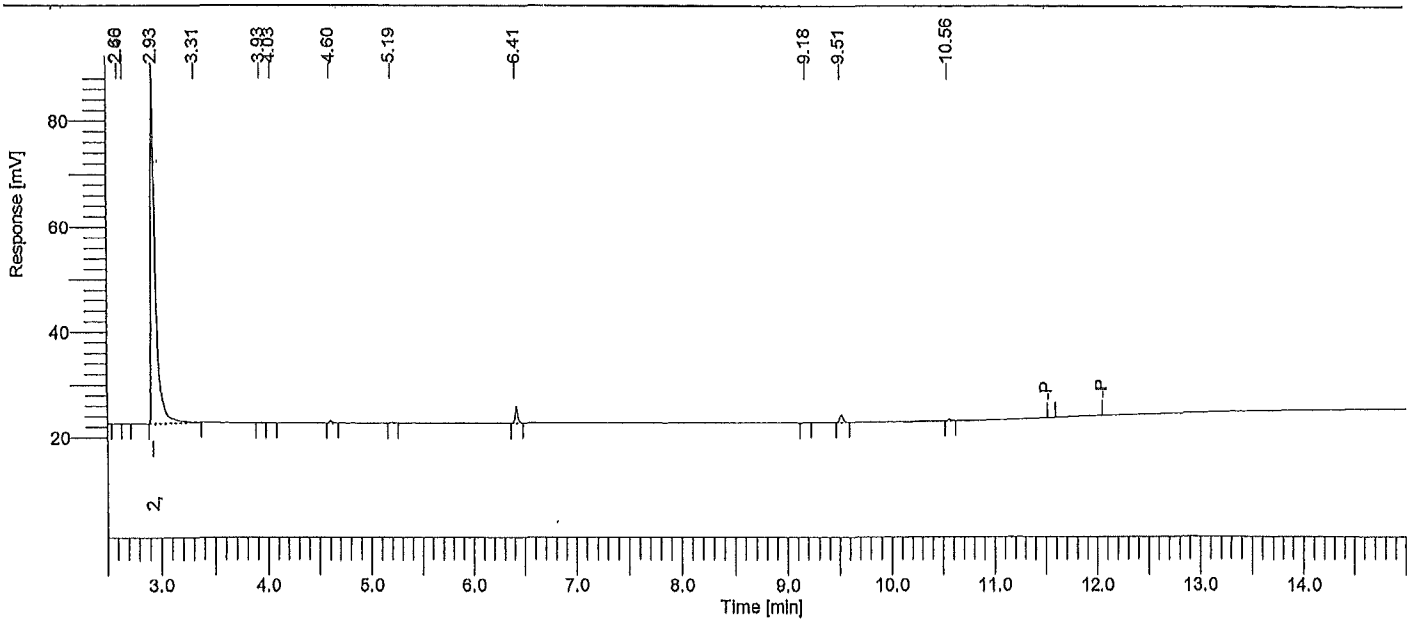

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
2.93	2,4,5-Trichlorophenol	192181	0.1016834
4.29	Tetrachloro-m-xylene	0	0.0000000
5.07	alpha-BHC	0	0.0000000
5.52	gamma-BHC	0	0.0000000
5.64	beta-BHC	0	0.0000000
5.89	delta-BHC	0	0.0000000
6.19	Heptachlor	0	0.0000000
6.63	Aldrin	0	0.0000000
7.50	Heptachlor epoxide	0	0.0000000
7.68	gamma-Chlordane	0	0.0000000
7.88	alpha-Chlordane	0	0.0000000
7.98	4,4'-DDE	0	0.0000000
8.08	Endosulfan I	0	0.0000000
8.43	Dieldrin	0	0.0000000
8.77	Endrin	0	0.0000000
8.85	4,4'-DDD	0	0.0000000
9.10	Endosulfan II	0	0.0000000
9.26	4,4'-DDT	0	0.0000000
9.72	Endrin aldehyde	0	0.0000000
9.95	Methoxychlor	0	0.0000000
10.32	Endosulfan sulfate	0	0.0000000
10.68	Endrin ketone	0	0.0000000
11.75	Decachlorobiphenyl	0	0.0000000

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:38:26
Operator	: sagers	Sample Name	: RESC11
Sample Number	: 004	Study	: 21564
AutoSampler	: HP7673A	Rack/Vial	: 0/4
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/09/2015 22:25:44	Dilution Factor	: 1.00
		Cycle	: 3

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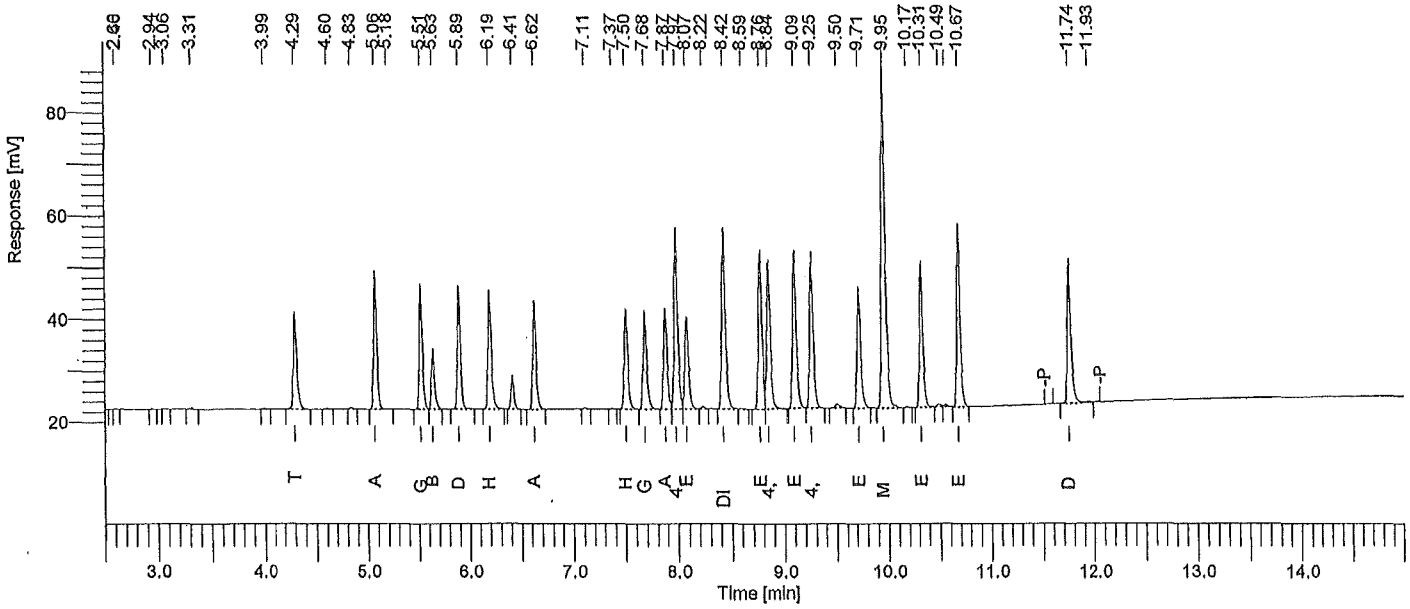

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.29	Tetrachloro-m-xylene	43532	0.0207771
5.06	alpha-BHC	56465	0.0215581
5.51	gamma-BHC	51775	0.0214091
5.63	beta-BHC	26544	0.0209191
5.89	delta-BHC	50900	0.0218724
6.19	Heptachlor	52506	0.0214278
6.62	Aldrin	47526	0.0214414
7.50	Heptachlor epoxide	45742	0.0215075
7.68	gamma-Chlordane	46316	0.0213034
7.87	alpha-Chlordane	47532	0.0212724
7.97	4,4'-DDE	83606	0.0431953
8.07	Endosulfan I	43389	0.0213360
8.42	Dieldrin	85010	0.0432348
8.76	Endrin	73658	0.0449576
8.84	4,4'-DDD	70640	0.0434328
9.09	Endosulfan II	75730	0.0429251
9.25	4,4'-DDT	73964	0.0434236
9.71	Endrin aldehyde	60951	0.0427042
9.95	Methoxychlor	169496	0.2057268
10.31	Endosulfan sulfate	67868	0.0425848
10.67	Endrin ketone	83383	0.0425147
11.74	Decachlorobiphenyl	68265	0.0407494

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:38:29
Operator	: sagers	Sample Name	: PEM11
Sample Number	: 005	Study	: 21568
AutoSampler	: HP7673A	Rack/Vial	: 0/5
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/09/2015 22:47:22	Dilution Factor	: 1.00
		Cycle	: 4

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Report Format File: \\Alsltws012\TCCS\sagers\gce21\21150309\21_rpt_2ul\21_som_pem_a.rpt
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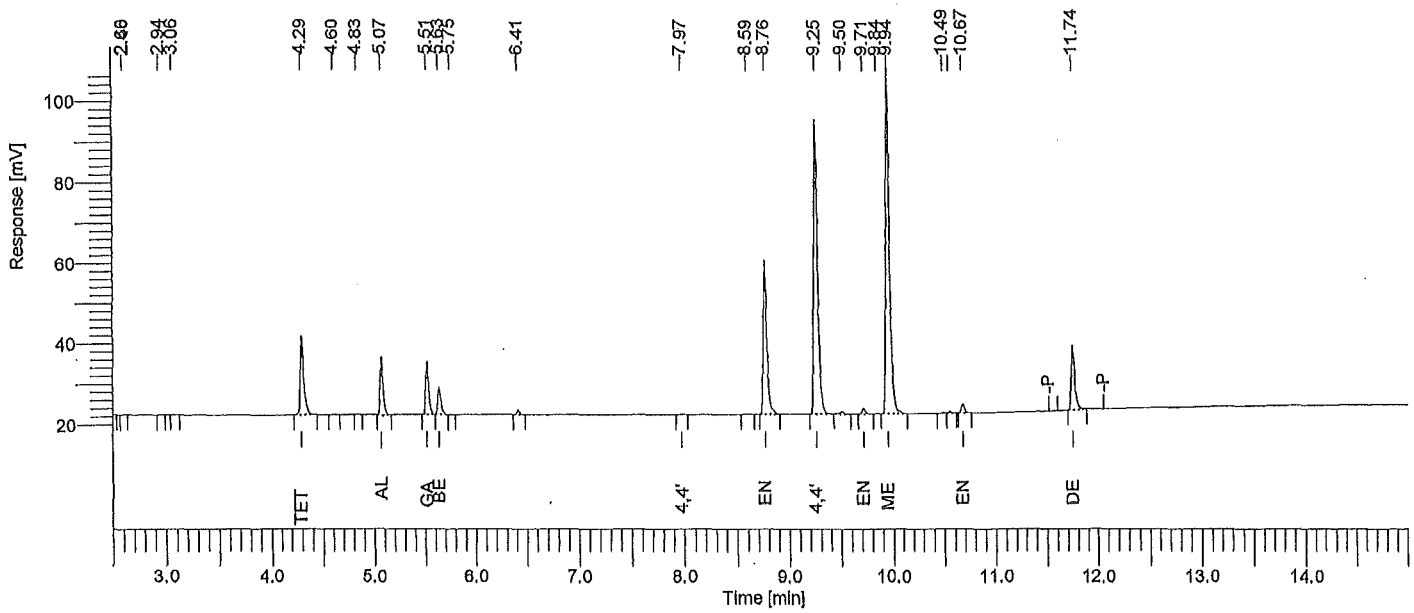

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.29	Tetrachloro-m-xylene	44505	0.0212417	0.0212417	0.02000	106.2
5.07	alpha-BHC	27961	0.0106756	0.0106756	0.01000	106.8
5.51	gamma-BHC	26623	0.0110088	0.0110088	0.01000	110.1
5.63	beta-BHC	14476	0.0114080	0.0114080	0.01000	114.1
5.89	delta-BHC	0	0.0000000	0.0000000	----------	------
6.19	Heptachlor	0	0.0000000	0.0000000	----------	------
6.63	Aldrin	0	0.0000000	0.0000000	----------	------
7.50	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
7.68	gamma-Chlordane	0	0.0000000	0.0000000	----------	------
7.88	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
7.97	4,4'-DDE	280	0.0001446	0.0001446	0.10000	0.1
8.08	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.43	Dieldrin	0	0.0000000	0.0000000	----------	------
8.76	Endrin	95162	0.0580827	0.0580827	0.05000	116.2
8.85	4,4'-DDD	0	0.0000000	0.0000000	----------	------
9.10	Endosulfan II	0	0.0000000	0.0000000	----------	------
9.25	4,4'-DDT	185344	0.1088132	0.1088132	0.10000	108.8
9.71	Endrin aldehyde	3170	0.0022207	0.0022207	0.05000	4.4
9.94	Methoxychlor	216390	0.2626459	0.2626459	0.25000	105.1
10.32	Endosulfan sulfate	0	0.0000000	0.0000000	----------	------
10.67	Endrin ketone	4385	0.0022358	0.0022358	0.05000	4.5
11.74	Decachlorobiphenyl	37809	0.0225693	0.0225693	0.02000	112.8
			0.5110464			889.1

08/09/2015 14:38:29 Result: \\Alsltws012\TCCS\sagers\GCE21\21150309\21150309A_005.rst

Group Report For : 4,4'-DDT breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
7.97	4,4'-DDE	280	0.0001446	0.0001446	0.10000	0.1
8.85	4,4'-DDD	0	0.0000000	0.0000000	---------	------
			0.0001446			0.1

Group Report For : Endrin breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
9.71	Endrin aldehyde	3170	0.0022207	0.0022207	0.05000	4.4
10.67	Endrin ketone	4385	0.0022358	0.0022358	0.05000	4.5
			0.0044566			8.9

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:38:31
Operator	: sagers	Sample Name	: TOXAPH111
Sample Number	: 006	Study	: 21557
AutoSampler	: HP7673A	Rack/Vial	: 0/6
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/09/2015 23:09:00	Dilution Factor	: 1.00
		Cycle	: 5

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Report Format File: \\AlsItws012\TCCS\sagers\GCE21\21150309\21_RPT_2UL\21_som_std_a.rpt
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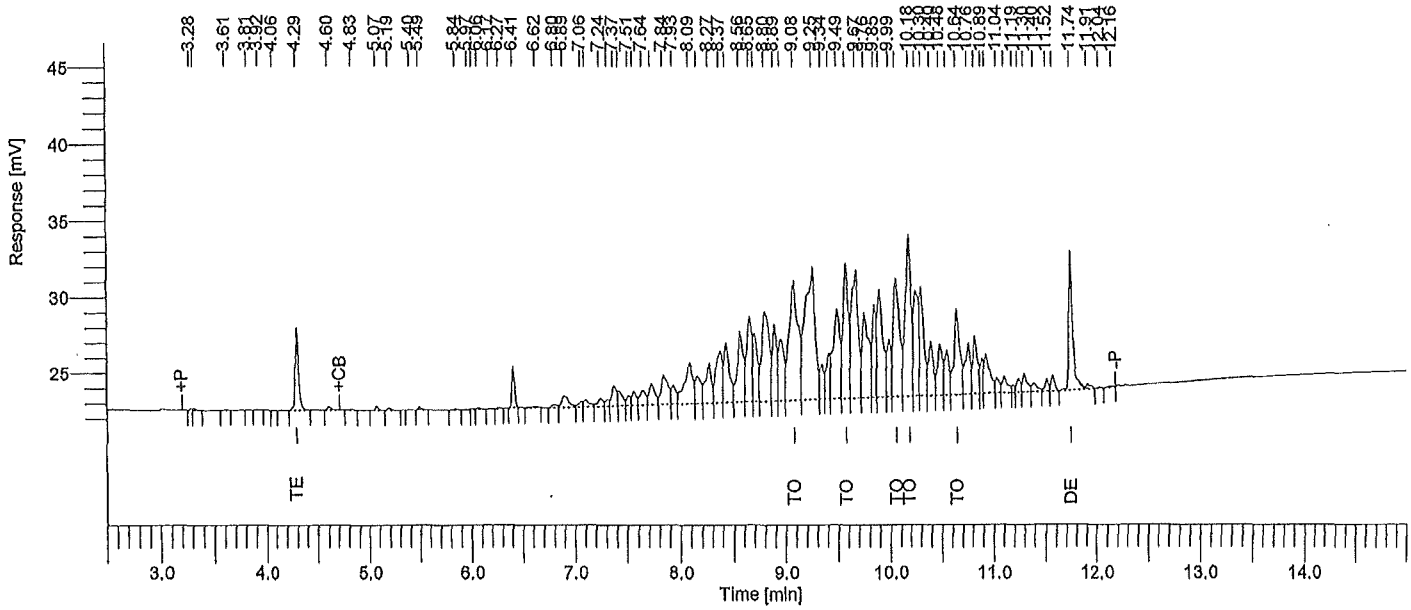

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.29	Tetrachloro-m-xylene	12194	0.0056291
9.08	Toxaphene-1	46576	0.5288355
9.57	Toxaphene-2	32836	0.5135229
10.05	Toxaphene-3	33935	0.5044942
10.18	Toxaphene-4	41692	0.5303843
10.64	Toxaphene-5	22372	0.4808734
11.74	Decachlorobiphenyl	23935	0.0120142

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:38:33
Operator	: sagers	Sample Name	: TOXAPH211
Sample Number	: 007	Study	: 21558
AutoSampler	: HP7673A	Rack/Vial	: 0/7
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/09/2015 23:30:38	Dilution Factor	: 1.00
		Cycle	: 6

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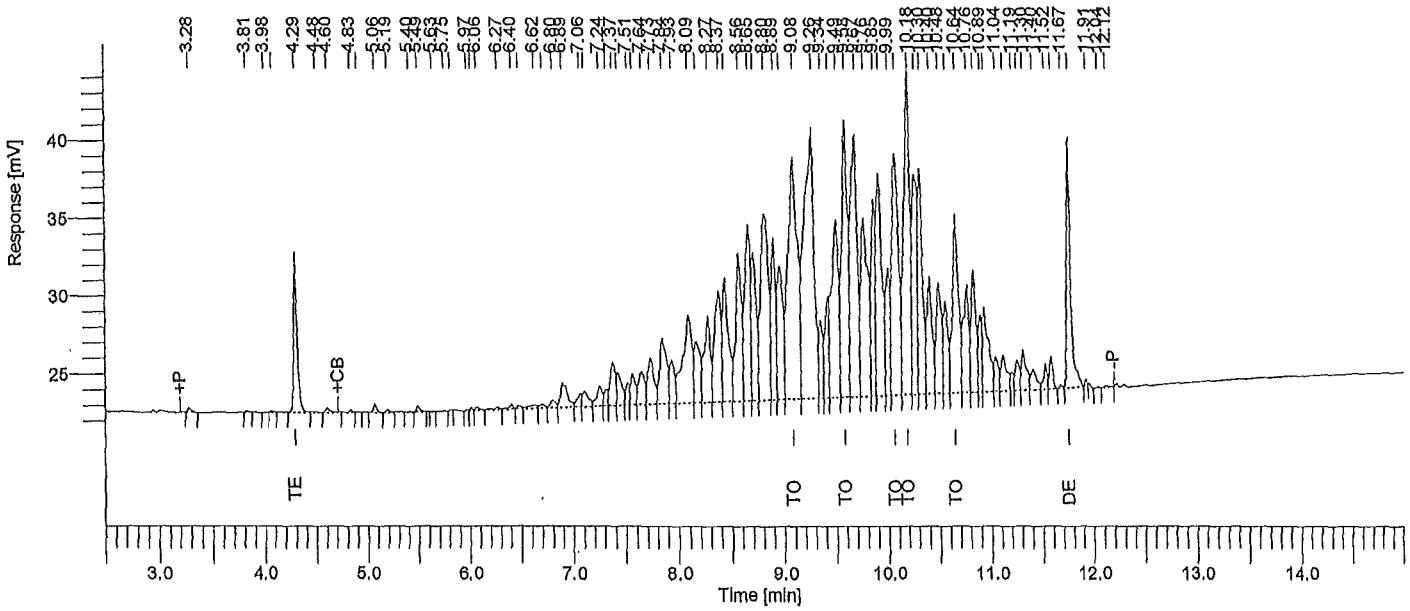

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.29	Tetrachloro-m-xylene	23366	0.0107863
9.08	Toxaphene-1	94849	1.0769371
9.58	Toxaphene-2	67898	1.0618387
10.05	Toxaphene-3	71072	1.0565817
10.18	Toxaphene-4	83867	1.0669208
10.64	Toxaphene-5	47203	1.0146190
11.74	Decachlorobiphenyl	41773	0.0209678

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:38:37
Operator	: sagers	Sample Name	: TOXAPH311
Sample Number	: 008	Study	: 21559
AutoSampler	: HP7673A	Rack/Vial	: 0/8
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/09/2015 23:52:10	Dilution Factor	: 1.00
		Cycle	: 7

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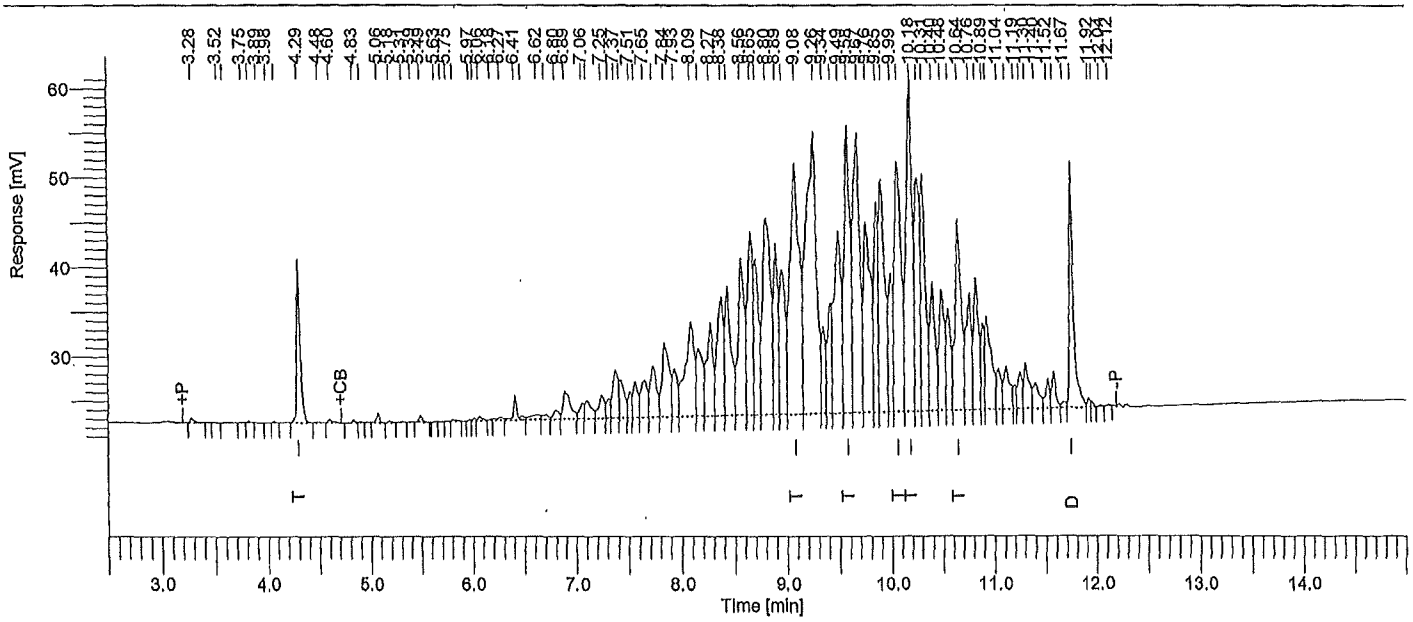

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.29	Tetrachloro-m-xylene	42909	0.0198082	0.0198082	0.0200000	99.0
9.08	Toxaphene-1	174390	1.9800661	1.9800661	2.0000000	99.0
9.58	Toxaphene-2	127428	1.9928202	1.9928202	2.0000000	99.6
10.06	Toxaphene-3	132989	1.9770560	1.9770560	2.0000000	98.9
10.18	Toxaphene-4	153922	1.9581365	1.9581365	2.0000000	97.9
10.64	Toxaphene-5	91569	1.9682627	1.9682627	2.0000000	98.4
11.74	Decachlorobiphenyl	74908	0.0375994	0.0375994	0.0400000	94.0

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:38:40
Operator	: sagers	Sample Name	: TOXAPH411
Sample Number	: 009	Study	: 21560
AutoSampler	: HP7673A	Rack/Vial	: 0/9
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/10/2015 00:13:45	Dilution Factor	: 1.00
		Cycle	: 8

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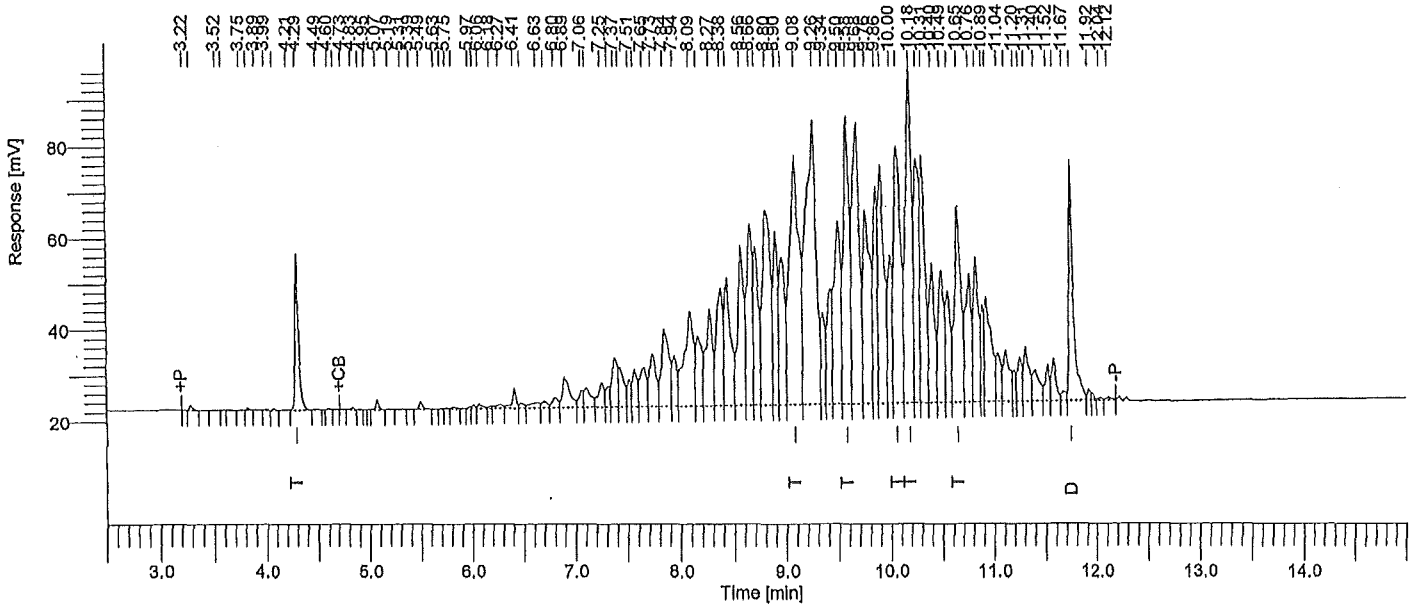

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.29	Tetrachloro-m-xylene	81189	0.0374797
9.08	Toxaphene-1	341768	3.8805101
9.58	Toxaphene-2	252805	3.9535732
10.06	Toxaphene-3	267921	3.9829841
10.18	Toxaphene-4	306552	3.8998251
10.65	Toxaphene-5	190811	4.1014645
11.75	Decachlorobiphenyl	148234	0.0744049

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:38:42
Operator	: sagers	Sample Name	: TOXAPH511
Sample Number	: 010	Study	: 21561
AutoSampler	: HP7673A	Rack/Vial	: 0/10
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/10/2015 00:35:15	Dilution Factor	: 1.00
		Cycle	: 9

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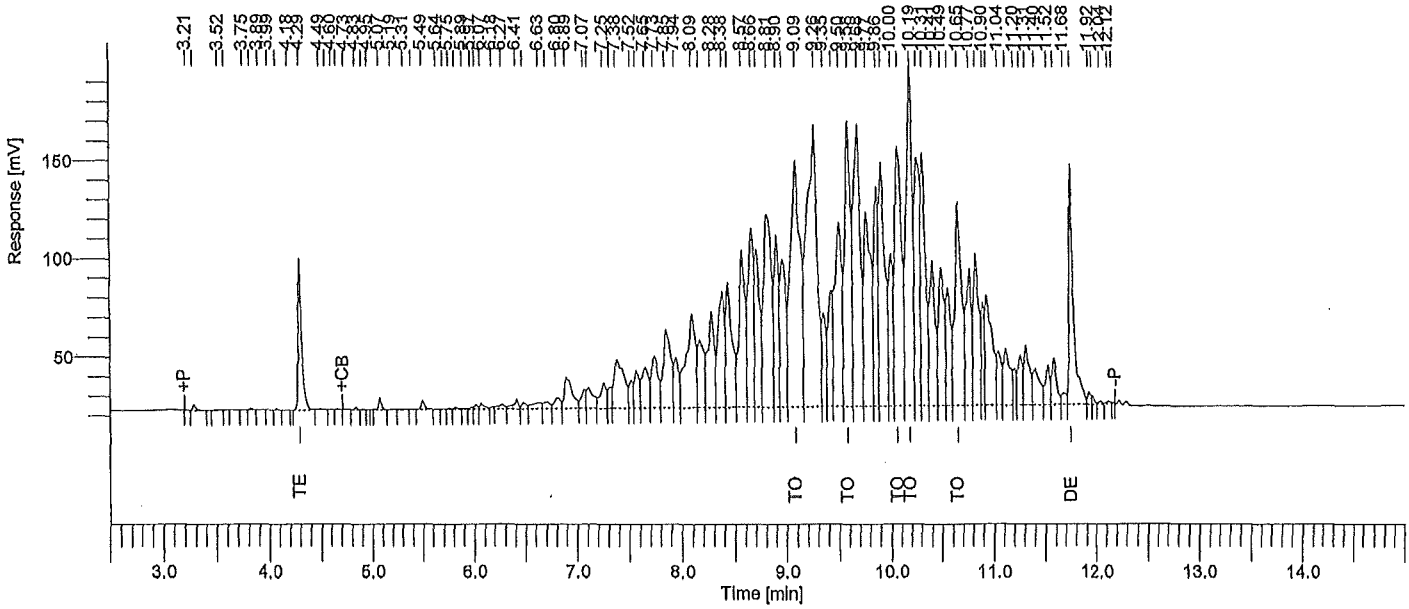

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.29	Tetrachloro-m-xylene	188062	0.0868157
9.09	Toxaphene-1	797264	9.0523124
9.58	Toxaphene-2	592317	9.2631201
10.06	Toxaphene-3	639135	9.5015584
10.19	Toxaphene-4	721833	9.1828599
10.65	Toxaphene-5	471803	10.1413671
11.75	Decachlorobiphenyl	350695	0.1760281

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:38:45
Operator	: sagers	Sample Name	: INDC111
Sample Number	: 011	Study	: 21562
AutoSampler	: HP7673A	Rack/Vial	: 0/11
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 03/10/2015 00:56:45	Cycle	: 10

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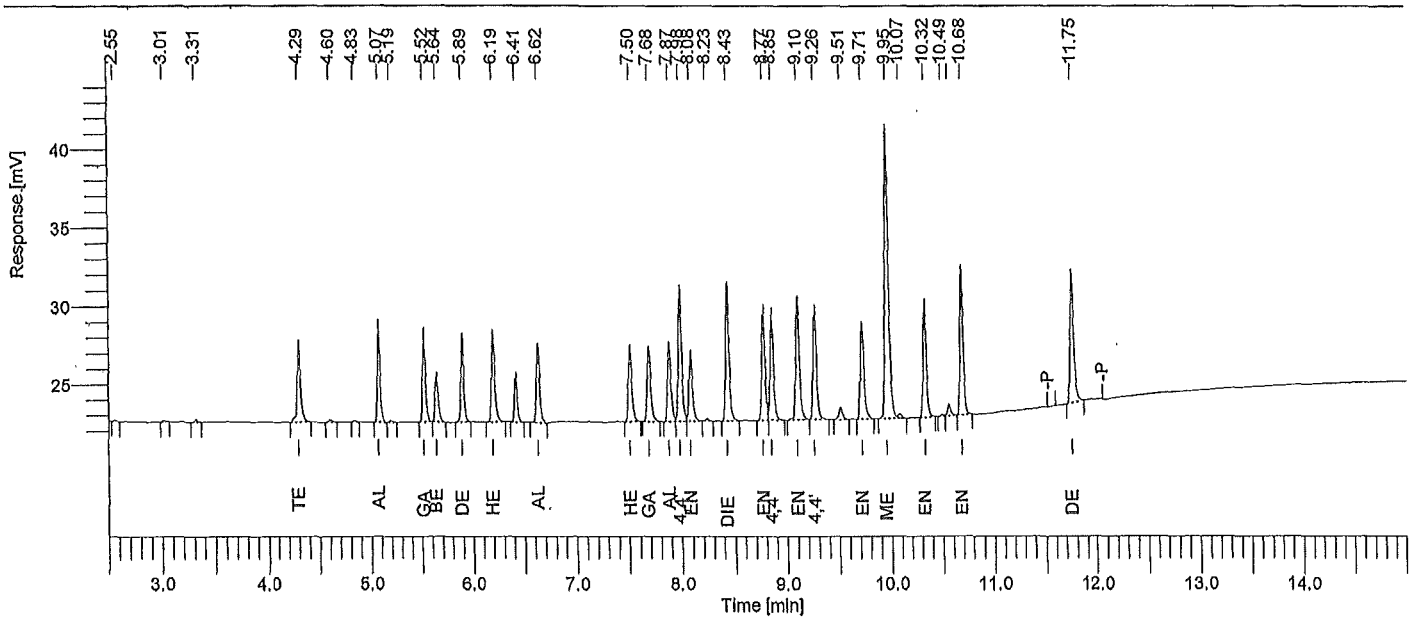

Instrument ID; GC21A Column; RTXCLP 30m x 0.32mm Inj Vol; 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.29	Tetrachloro-m-xylene	12047	0.0057497
5.07	alpha-BHC	12449	0.0047529
5.52	gamma-BHC	11844	0.0048974
5.64	beta-BHC	6845	0.0053944
5.89	delta-BHC	10877	0.0046740
6.19	Heptachlor	12811	0.0052283
6.62	Aldrin	10952	0.0049411
7.50	Heptachlor epoxide	11075	0.0052076
7.68	gamma-Chlordane	11273	0.0051851
7.87	alpha-Chlordane	11827	0.0052930
7.98	4,4'-DDE	19123	0.0098797
8.08	Endosulfan I	10469	0.0051482
8.43	Dieldrin	19971	0.0101569
8.77	Endrin	16624	0.0101466
8.85	4,4'-DDD	16122	0.0099127
9.10	Endosulfan II	18886	0.0107047
9.26	4,4'-DDT	16884	0.0099123
9.71	Endrin aldehyde	15586	0.0109202
9.95	Methoxychlor	46653	0.0566259
10.32	Endosulfan sulfate	16824	0.0105566
10.68	Endrin ketone	21156	0.0107869
11.75	Decachlorobiphenyl	19928	0.0118959

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:38:48
Operator	: sagers	Sample Name	: INDC211
Sample Number	: 012	Study	: 21563
AutoSampler	: HP7673A	Rack/Vial	: 0/12
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 03/10/2015 01:18:17	Cycle	: 11

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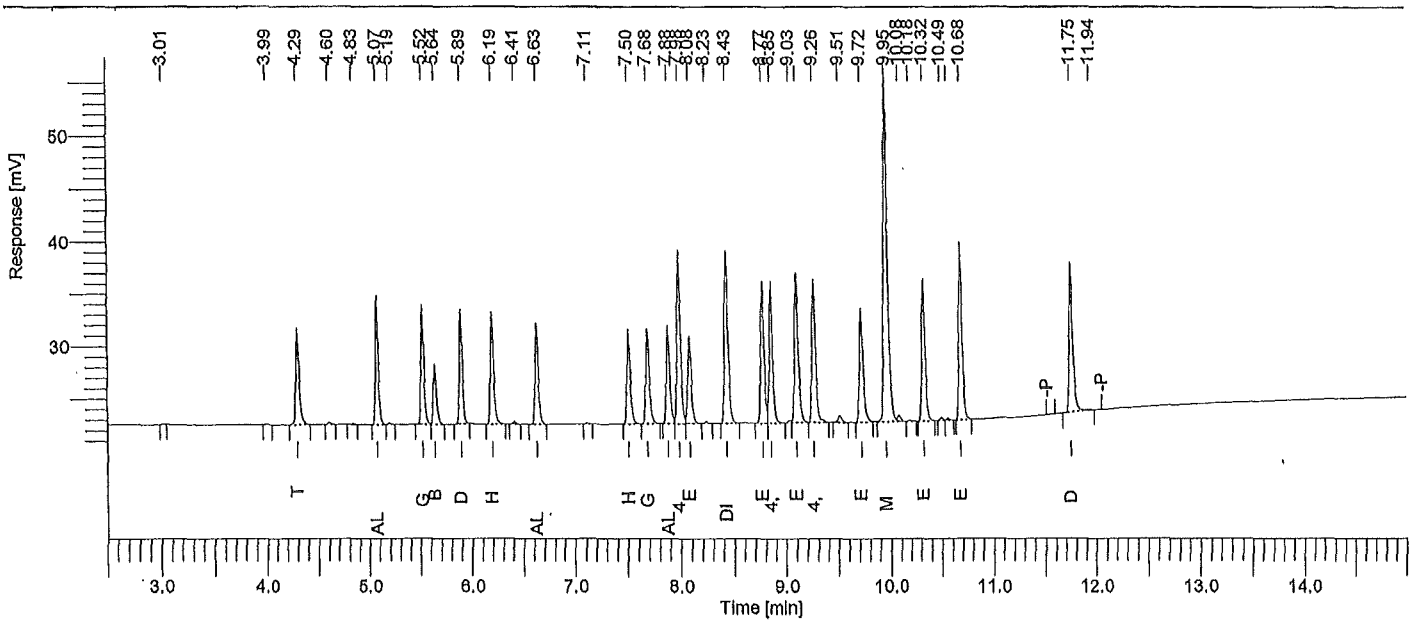

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.29	Tetrachloro-m-xylene	20419	0.0097456
5.07	alpha-BHC	24204	0.0092410
5.52	gamma-BHC	22712	0.0093914
5.64	beta-BHC	12422	0.0097892
5.89	delta-BHC	21402	0.0091966
6.19	Heptachlor	23590	0.0096273
6.63	Aldrin	20623	0.0093040
7.50	Heptachlor epoxide	20551	0.0096631
7.68	gamma-Chlordane	20937	0.0096300
7.88	alpha-Chlordane	21870	0.0097874
7.98	4,4'-DDE	37255	0.0192479
8.08	Endosulfan I	19486	0.0095819
8.43	Dieldrin	38031	0.0193419
8.77	Endrin	31068	0.0189625
8.85	4,4'-DDD	31289	0.0192380
9.10	Endosulfan II	34311	0.0194480
9.26	4,4'-DDT	32444	0.0190477
9.72	Endrin aldehyde	27329	0.0191478
9.95	Methoxychlor	82055	0.0995953
10.32	Endosulfan sulfate	30956	0.0194242
10.68	Endrin ketone	38541	0.0196509
11.75	Decachlorobiphenyl	34282	0.0204640

Software Version	: 6.3.1.0504	Date	: 08/09/2015 14:38:52
Operator	: sagers	Sample Name	: INDC311
Sample Number	: 013	Study	: 21564
AutoSampler	: HP7673A	Rack/Vial	: 0/13
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 03/10/2015 01:39:45	Cycle	: 12

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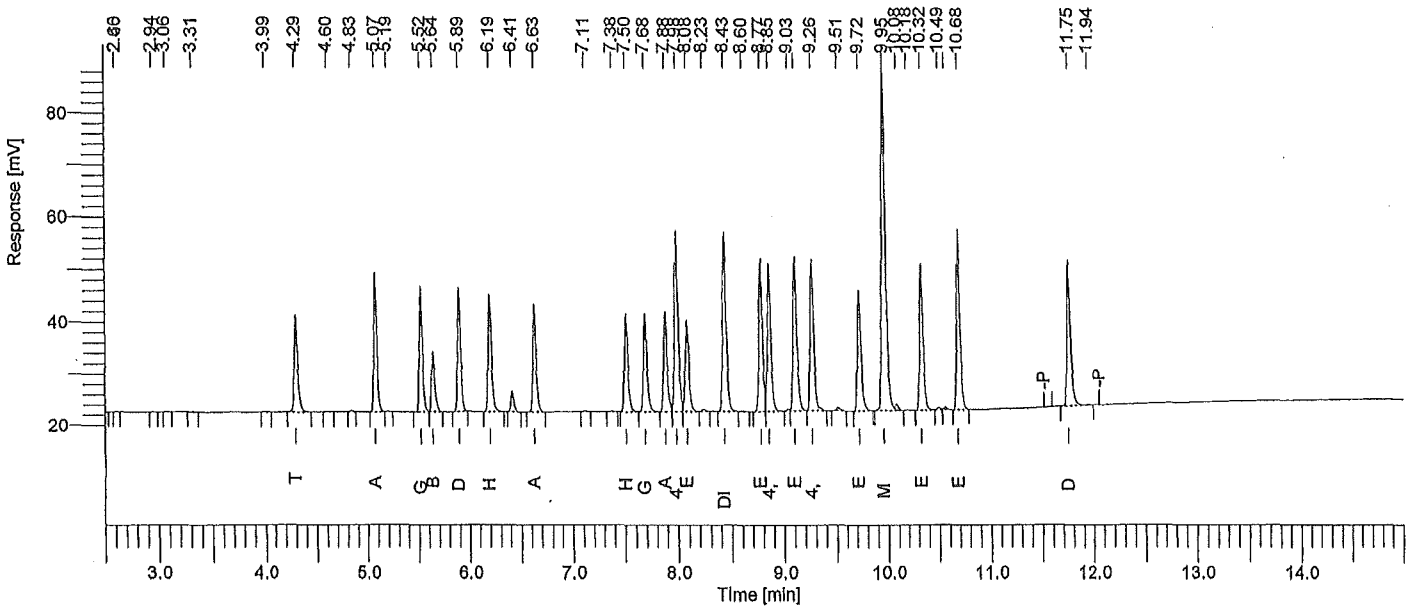

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.29	Tetrachloro-m-xylene	43327	0.0206793	0.0206793	0.0200000	103.4
5.07	alpha-BHC	56084	0.0214127	0.0214127	0.0200000	107.1
5.52	gamma-BHC	51402	0.0212550	0.0212550	0.0200000	106.3
5.64	beta-BHC	26323	0.0207450	0.0207450	0.0200000	103.7
5.89	delta-BHC	49622	0.0213233	0.0213233	0.0200000	106.6
6.19	Heptachlor	51483	0.0210106	0.0210106	0.0200000	105.1
6.63	Aldrin	46964	0.0211881	0.0211881	0.0200000	105.9
7.50	Heptachlor epoxide	44729	0.0210313	0.0210313	0.0200000	105.2
7.68	gamma-Chlordane	45753	0.0210444	0.0210444	0.0200000	105.2
7.88	alpha-Chlordane	46979	0.0210249	0.0210249	0.0200000	105.1
7.98	4,4'-DDE	82378	0.0425612	0.0425612	0.0400000	106.4
8.08	Endosulfan I	42587	0.0209415	0.0209415	0.0200000	104.7
8.43	Dieldrin	83604	0.0425195	0.0425195	0.0400000	106.3
8.77	Endrin	70295	0.0429049	0.0429049	0.0400000	107.3
8.85	4,4'-DDD	69040	0.0424493	0.0424493	0.0400000	106.1
9.10	Endosulfan II	74200	0.0420575	0.0420575	0.0400000	105.1
9.26	4,4'-DDT	71868	0.0421929	0.0421929	0.0400000	105.5
9.72	Endrin aldehyde	60166	0.0421539	0.0421539	0.0400000	105.4
9.95	Methoxychlor	168270	0.2042389	0.2042389	0.2000000	102.1
10.32	Endosulfan sulfate	66870	0.0418335	0.0418335	0.0400000	104.6
10.68	Endrin ketone	81440	0.0415240	0.0415240	0.0400000	103.8
11.75	Decachlorobiphenyl	68440	0.0408540	0.0408540	0.0400000	102.1

All analytes <= to +/-20%. Resolution >=60% primary, 50% confirmation. No resolution critrerla for toxaphene.

Software Version	: 6.3.1.0504	Date	: 08/09/2015 14:38:54
Operator	: sagers	Sample Name	: INDC411
Sample Number	: 014	Study	: 21565
AutoSampler	: HP7673A	Rack/Vial	: 0/14
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 03/10/2015 02:01:11	Cycle	: 13

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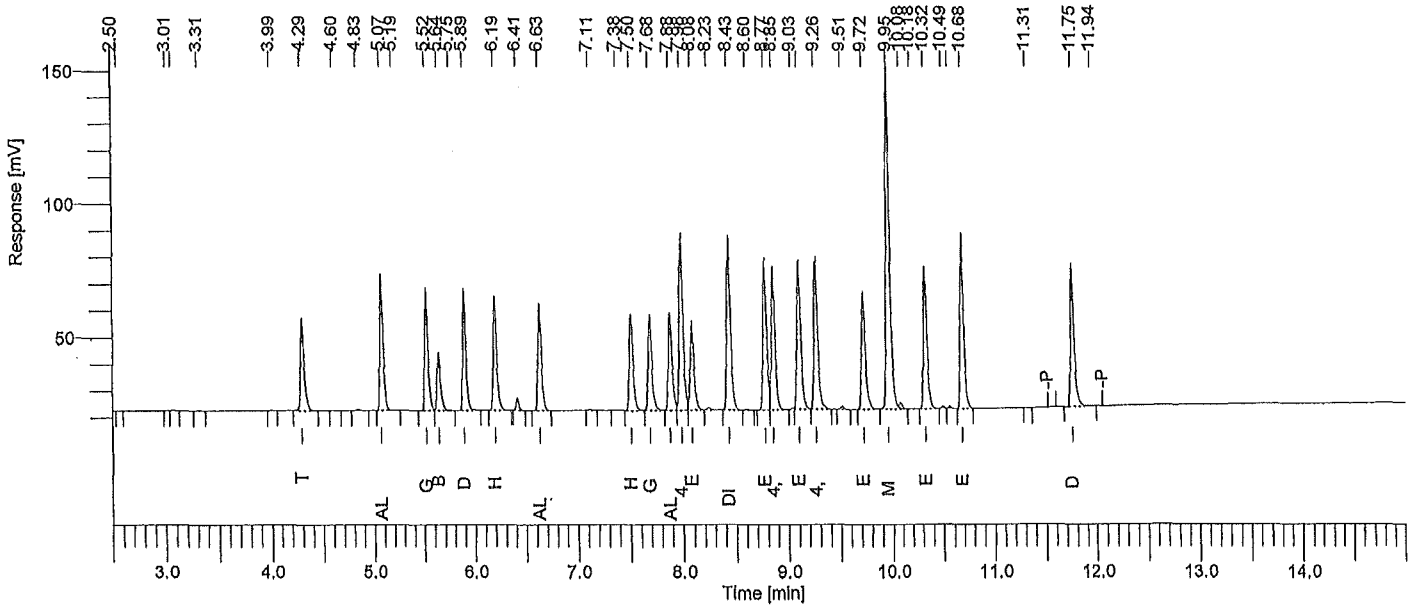

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.29	Tetrachloro-m-xylene	82556	0.0394026
5.07	alpha-BHC	112512	0.0429567
5.52	gamma-BHC	102493	0.0423812
5.64	beta-BHC	51437	0.0405363
5.89	delta-BHC	101496	0.0436145
6.19	Heptachlor	100629	0.0410673
6.63	Aldrin	93707	0.0422763
7.50	Heptachlor epoxide	87184	0.0409936
7.68	gamma-Chlordane	89113	0.0409880
7.88	alpha-Chlordane	90376	0.0404462
7.98	4,4'-DDE	161302	0.0833373
8.08	Endosulfan I	83971	0.0412919
8.43	Dieldrin	162717	0.0827552
8.77	Endrin	138799	0.0847162
8.85	4,4'-DDD	135204	0.0831303
9.10	Endosulfan II	142649	0.0808558
9.26	4,4'-DDT	143098	0.0840111
9.72	Endrin aldehyde	115899	0.0812022
9.95	Methoxychlor	325137	0.3946384
10.32	Endosulfan sulfate	130343	0.0817863
10.68	Endrin ketone	157765	0.0804402
11.75	Decachlorobiphenyl	126961	0.0769809

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:38:56
Operator	: sagers	Sample Name	: INDC511
Sample Number	: 015	Study	: 21566
AutoSampler	: HP7673A	Rack/Vial	: 0/15
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 03/10/2015 02:22:41	Cycle	: 14

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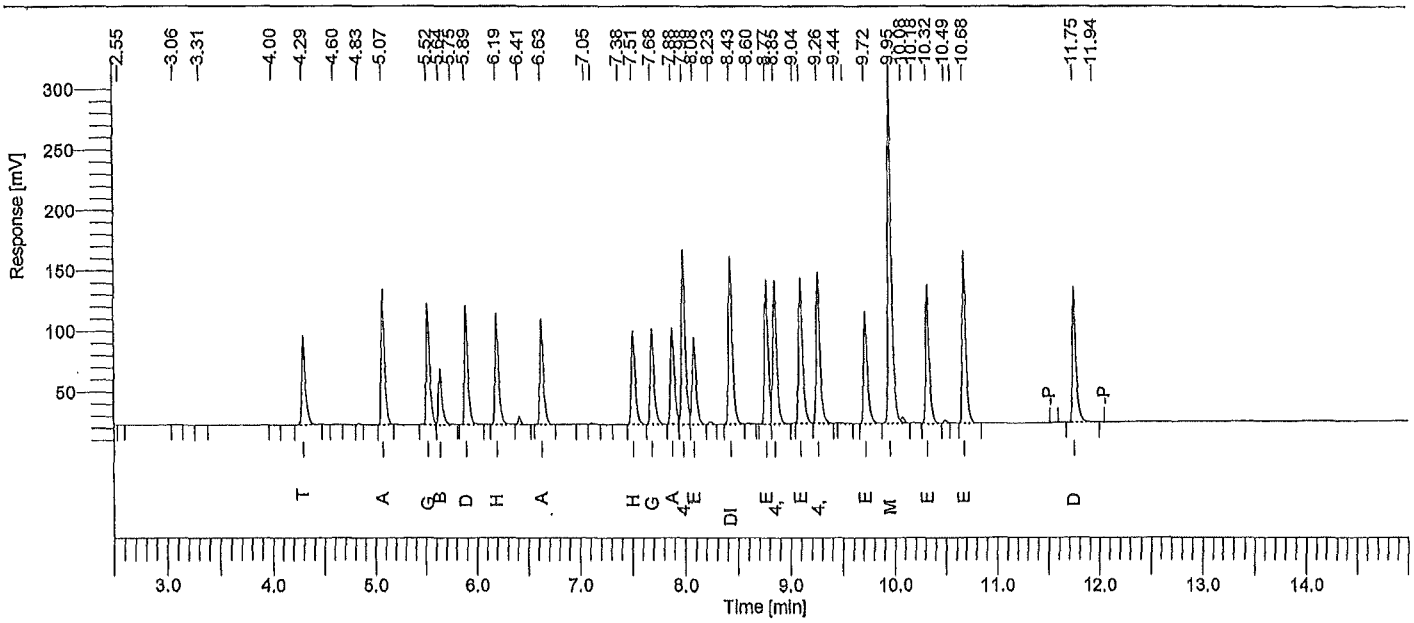

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.29	Tetrachloro-m-xylene	179447	0.0856470
5.07	alpha-BHC	256882	0.0980766
5.52	gamma-BHC	231945	0.0959099
5.64	beta-BHC	113128	0.0891537
5.89	delta-BHC	230157	0.0989022
6.19	Heptachlor	224061	0.0914403
6.63	Aldrin	213913	0.0965074
7.51	Heptachlor epoxide	194763	0.0915769
7.68	gamma-Chlordane	200682	0.0923052
7.88	alpha-Chlordane	201158	0.0900251
7.98	4,4'-DDE	365385	0.1687775
8.08	Endosulfan I	189690	0.0932782
8.43	Dieldrin	361702	0.1839563
8.77	Endrin	296761	0.1811287
8.85	4,4'-DDD	307869	0.1892937
9.10	Endosulfan II	315796	0.1789984
9.26	4,4'-DDT	324116	0.1902846
9.72	Endrin aldehyde	251694	0.1763442
9.95	Methoxychlor	711622	0.8637387
10.32	Endosulfan sulfate	288450	0.1809937
10.68	Endrin ketone	351131	0.1790330
11.75	Decachlorobiphenyl	269242	0.1607188

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:38:58
Operator	: sagers	Sample Name	: PIBLK21
Sample Number	: 016	Study	: 21567
AutoSampler	: HP7673A	Rack/Vial	: 0/16
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/10/2015 02:44:07	Dilution Factor	: 1.00
		Cycle	: 15

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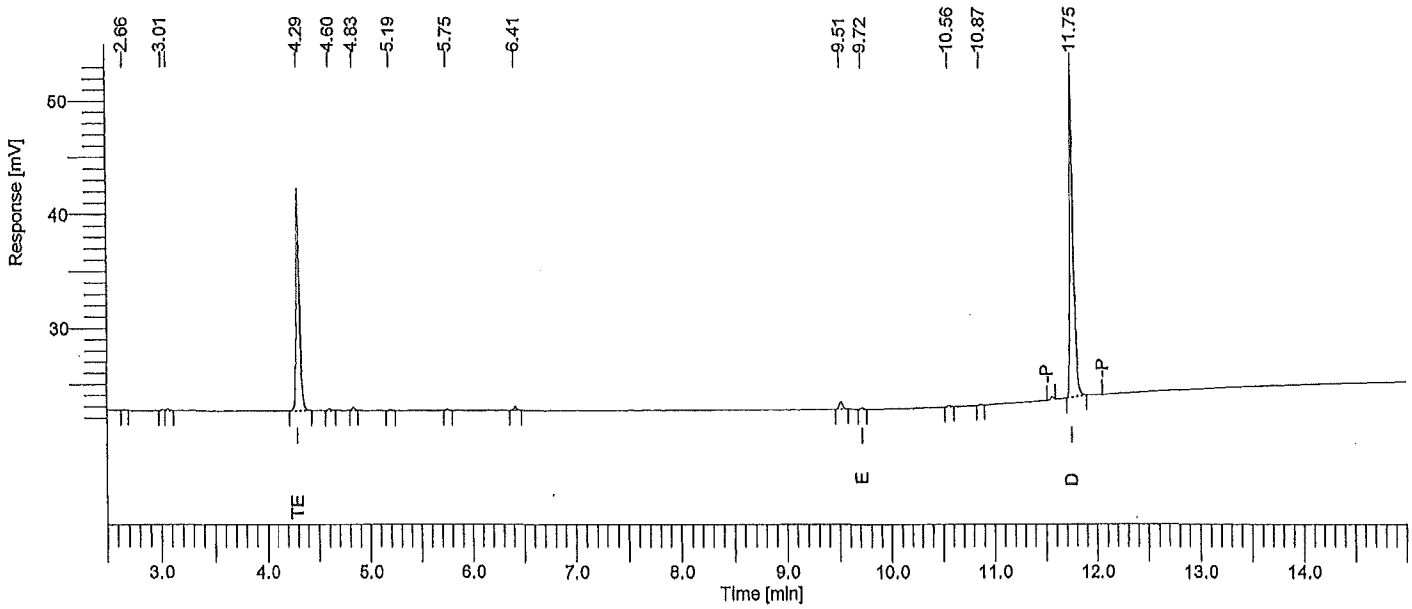

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
4.29	Tetrachloro-m-xylene	45218	0.021582	1	10	1.000	1.000	0.050000	0.215818	0.2000	107.9
5.07	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.52	gamma-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.64	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.89	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.19	Heptachlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.63	Aldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.50	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.68	gamma-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.86	alpha-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.98	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.08	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.43	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.77	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.85	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.10	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.26	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.72	Endrin aldehyde	209	1.46e-04	1	10	1.000	1.000	0.100000	0.001465	0.0000	-----
9.95	Methoxychlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.32	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.68	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.75	Decachlorobiphenyl	70495	0.042081	1	10	1.000	1.000	0.100000	0.420808	0.4000	105.2

All analytes <CRQL.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:39:00
Operator	: sagers	Sample Name	: PEM21
Sample Number	: 017	Study	: 21568
AutoSampler	: HP7673A	Rack/Vial	: 0/17
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 03/10/2015 03:05:38	Cycle	: 16

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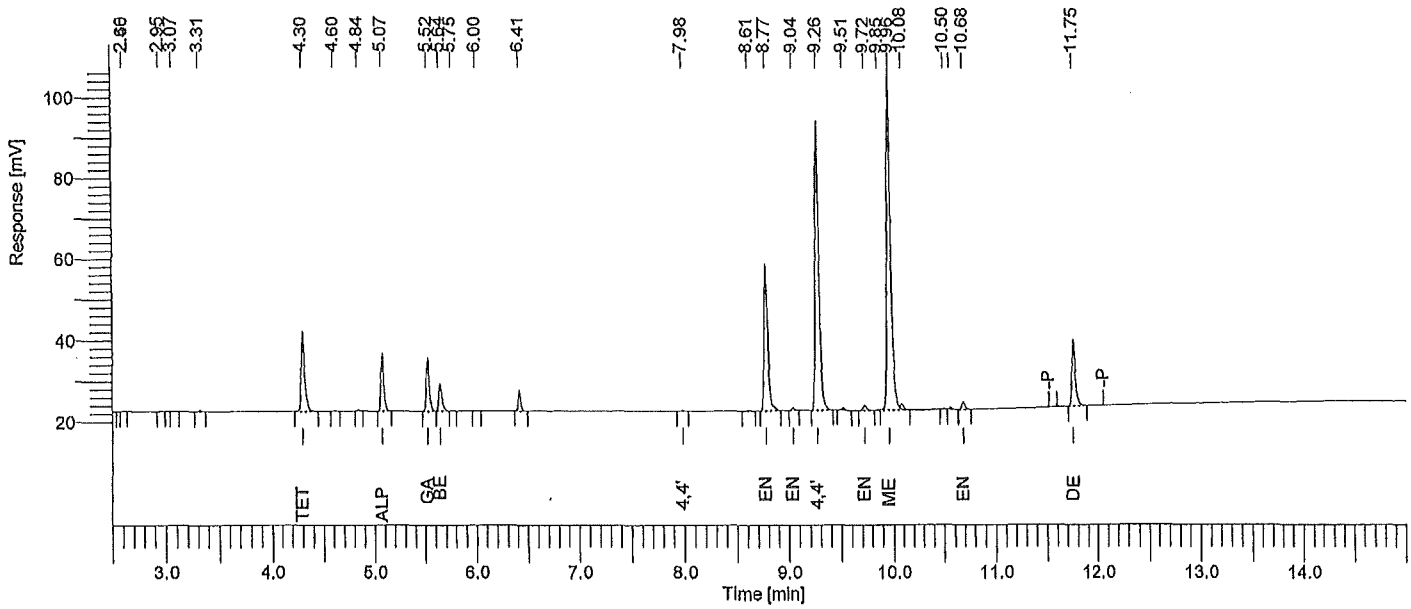

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.30	Tetrachloro-m-xylene	44834	0.0213987	0.0213987	0.02000	107.0
5.07	alpha-BHC	27916	0.0106582	0.0106582	0.01000	106.6
5.52	gamma-BHC	26557	0.0109813	0.0109813	0.01000	109.8
5.64	beta-BHC	14447	0.0113852	0.0113852	0.01000	113.9
5.89	delta-BHC	0	0.0000000	0.0000000	----------	------
6.19	Heptachlor	0	0.0000000	0.0000000	----------	------
6.63	Aldrin	0	0.0000000	0.0000000	----------	------
7.50	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
7.68	gamma-Chlordane	0	0.0000000	0.0000000	----------	------
7.88	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
7.98	4,4'-DDE	236	0.0001218	0.0001218	0.10000	0.1
8.08	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.43	Dieldrin	0	0.0000000	0.0000000	----------	------
8.77	Endrin	90280	0.0551090	0.0551090	0.05000	110.2
8.85	4,4'-DDD	0	0.0000000	0.0000000	----------	------
9.04	Endosulfan II	1159	0.0006568	0.0006568	0.00000	------
9.26	4,4'-DDT	181747	0.1067014	0.1067014	0.10000	106.7
9.72	Endrin aldehyde	2980	0.0020879	0.0020879	0.05000	4.2
9.96	Methoxychlor	216738	0.2630684	0.2630684	0.25000	105.2
10.32	Endosulfan sulfate	0	0.0000000	0.0000000	----------	------
10.68	Endrin ketone	3719	0.0018963	0.0018963	0.05000	3.8
11.75	Decachlorobiphenyl	38352	0.0228935	0.0228935	0.02000	114.5
			0.5069585			881.9

06/09/2015 14:39:00 Result: \\Alsltws012\TCCS\sagers\GCE21\21150309\21150309A_017.rst

Group Report For : 4,4'-DDT breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
7.98	4,4'-DDE	236	0.0001218	0.0001218	0.10000	0.1
8.85	4,4'-DDD	0	0.0000000	0.0000000	---------	------
			0.0001218			0.1

Group Report For : Endrin breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
9.72	Endrin aldehyde	2980	0.0020879	0.0020879	0.05000	4.2
10.68	Endrin ketone	3719	0.0018963	0.0018963	0.05000	3.8
			0.0039842			8.0

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

2R - FORM II ARO-2
SOIL AROCLOR SURROGATE RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	ABLKS1	45	45	61	76			0
02	ALCSS1	50	51	62	72			0
03	F9K00	45	48	50	52			0
04	F9M82	52	51	56	71			0
05	F9M83	53	51	65	66			0
06	F9M84	57	55	68	73			0
07	F9M85	67	65	79	93			0
08	F9M86	68	67	69	93			0
09	F9M87	69	65	76	97			0
10	F9M88	71	70	77	108			0
11	F9M89	71	64	80	94			0
12	F9M90	69	64	82	90			0
13	F9M91	70	64	81	95			0
14	F9M92	75	73	72	104			0
15	F9M93	72	71	71	105			0
16	F9M94	77	75	82	111			0
17	F9M95	72	67	76	100			0
18	F9M96	66	69	72	89			0
19	F9M97	71	69	82	92			0
20	F9M98	65	61	67	96			0
21	F9M99	77	70	73	102			0
22	F9M91MS	72	67	71	93			0
23	F9M91MSD	72	70	73	89			0
24								
25								
26								
27								
28								
29								
30								

	QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

3K - FORM III ARO-2

SOIL AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix Spike - EPA Sample No.: F9M91

Instrument ID: GCE20 GC Column: RTXCLP ID: 0.32 (mm)

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
AR1016	140	0	120	87	29-135
AR1260	140	0	110	80	29-135

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
AR1016	140	120	88	1	0-15	29-135
AR1260	140	130	91	12	0-20	29-135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS:

3K - FORM III ARO-2

SOIL AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9K00

Matrix Spike - EPA Sample No.: F9M91

Instrument ID: GCE20 GC Column: RTXCLP2 ID: 0.32 (mm)

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
AR1016	140	0	120	84	29-135
AR1260	140	0	140	97	29-135

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
AR1016	140	130	91	9	0-15	29-135
AR1260	140	130	95	2	0-20	29-135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

3P - FORM III ARO-4

SOIL AROCLOR LABORATORY CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

ALCSS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 451345 LCS Lot No.:

Date Extracted: 06/12/2015 Date Analyzed (1): 06/18/2015

Instrument ID (1): GCE20 GC Column (1): RTXCLP ID: 0.32 (mm)

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC #	QC LIMITS
AR1016	33.	21.	63	50-150
AR1260	33.	25.	76	50-150

Instrument ID (2): GCE20 GC Column (2): RTXCLP2 ID: 0.32 (mm)

Date Analyzed (2): 06/18/2015

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC #	QC LIMITS
AR1016	33.	22.	67	50-150
AR1260	33.	24.	71	50-150

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

LCS Recovery: 0 out of 4 outside limits.

COMMENTS:

4F - FORM IV ARO

AROCLOR METHOD BLANK SUMMARY

EPA SAMPLE NO.

ABLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab File ID: 20150617A037,20150617B037 Lab Sample ID: 451343

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 06/12/2015

Sulfur Cleanup: (Y/N) Y GPC Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

Date Analyzed (1): 06/18/2015 Date Analyzed (2): 06/18/2015

Time Analyzed (1): 03:11 Time Analyzed (2): 03:28

Instrument ID (1): GCE20 Instrument ID (2): GCE20

GC Column(1): RTXCLP ID: 0.32 (mm) GC Column(2): RTXCLP2 ID: 0.32 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	ALCSS1	451345	06/18/2015	06/18/2015
02	F9K00	1515725001	06/18/2015	06/18/2015
03	F9M82	1515725002	06/18/2015	06/18/2015
04	F9M83	1515725003	06/18/2015	06/18/2015
05	F9M84	1515725004	06/18/2015	06/18/2015
06	F9M85	1515725005	06/18/2015	06/18/2015
07	F9M86	1515725006	06/18/2015	06/18/2015
08	F9M87	1515725007	06/18/2015	06/18/2015
09	F9M88	1515725008	06/18/2015	06/18/2015
10	F9M89	1515725009	06/18/2015	06/18/2015
11	F9M90	1515725010	06/18/2015	06/18/2015
12	F9M91	1515725011	06/18/2015	06/18/2015
13	F9M92	1515725014	06/18/2015	06/18/2015
14	F9M93	1515725015	06/18/2015	06/18/2015
15	F9M94	1515725016	06/18/2015	06/18/2015
16	F9M95	1515725017	06/18/2015	06/18/2015
17	F9M96	1515725018	06/18/2015	06/18/2015
18	F9M97	1515725019	06/18/2015	06/18/2015
19	F9M98	1515725020	06/18/2015	06/18/2015
20	F9M99	1515725021	06/18/2015	06/18/2015
21	F9M91MS	1515725012	06/18/2015	06/18/2015
22	F9M91MSD	1515725013	06/18/2015	06/18/2015
23				
24				
25				
26				

COMMENTS:

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9K00

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725001

Sample wt/vol: 30.4 (g/mL) g Lab File ID: 20150617A039,20150617B039

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	37.	U
11104-28-2	Aroclor-1221	37.	U
11141-16-5	Aroclor-1232	37.	U
53469-21-9	Aroclor-1242	37.	U
12672-29-6	Aroclor-1248	37.	U
11097-69-1	Aroclor-1254	37.	U
11096-82-5	Aroclor-1260	37.	U
37324-23-5	Aroclor-1262	37.	U
11100-14-4	Aroclor-1268	37.	U

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:08:55
Operator	: borges	Sample Name	: 1515725001
Sample Number	: 39	Study	: F9K00
AutoSampler	: HP7673A	Rack/Vial	: 0/39
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 03:44:16	Cycle	: 38

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_039.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_039.rst
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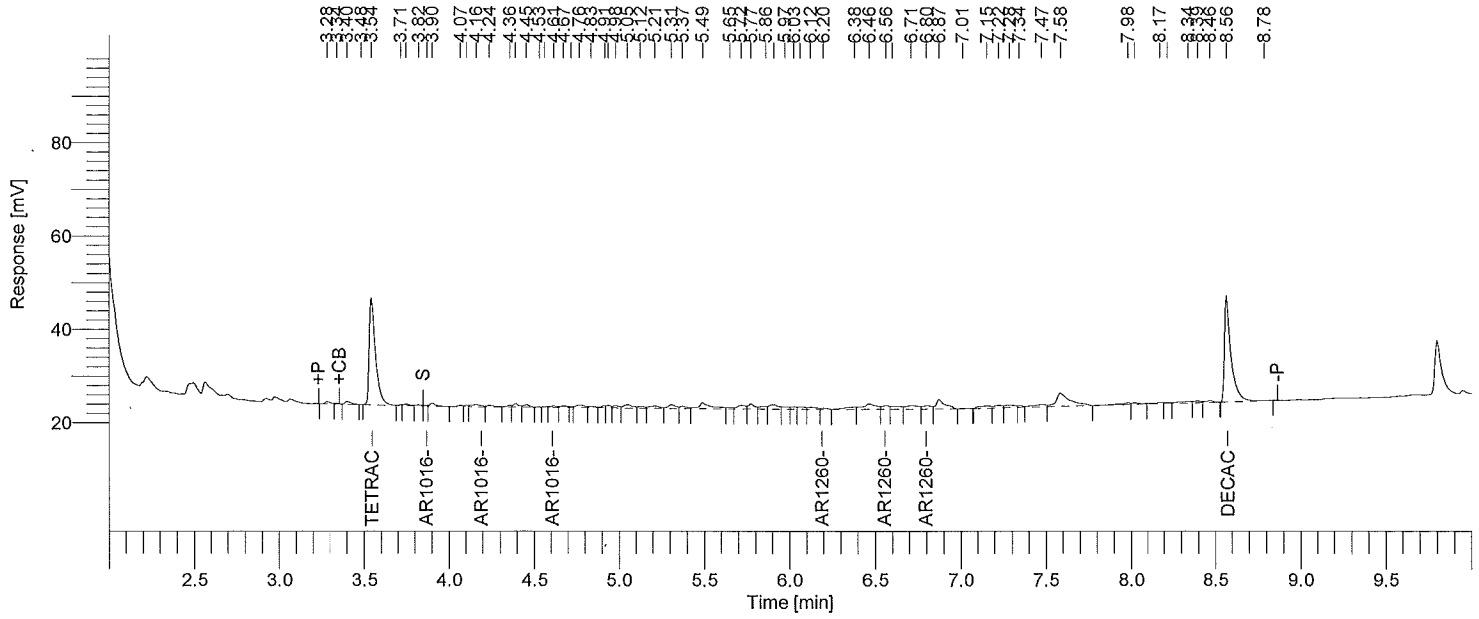
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_039.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_039.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617_SOM_AROS_F9M15_F9K00_A.seq



Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.54	Tetrachloro-m-xylene	58089	0.02713347	1	10	0.03035	0.988	1.6474	8.94019	19.77	45.2
3.87	AR1016-1	318	7.1362e-03	1	10	0.03035	0.988	32.9489	2.35130	0.00	------
4.16	AR1016-2	2025	0.02356484	1	10	0.03035	0.988	32.9489	7.76436	0.00	------
4.61	AR1016-3	922	5.7977e-03	1	10	0.03035	0.988	32.9489	1.91028	0.00	------
6.20	AR1260-1	783	8.8692e-03	1	10	0.03035	0.988	32.9489	2.92232	0.00	------
6.56	AR1260-2	2214	0.04264064	1	10	0.03035	0.988	32.9489	14.04963	0.00	------
6.80	AR1260-3	2682	0.04761010	1	10	0.03035	0.988	32.9489	15.68702	0.00	------
8.56	Decachlorobiphenyl	60170	0.05972051	1	10	0.03035	0.988	3.2949	19.67727	39.54	49.8

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:10:07
Operator	: borges	Sample Name	: 1515725001
Sample Number	: 39	Study	: F9K00
AutoSampler	: HP7673A	Rack/Vial	: 0/39
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 04:00:36	Cycle	: 39

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_039.raw
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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
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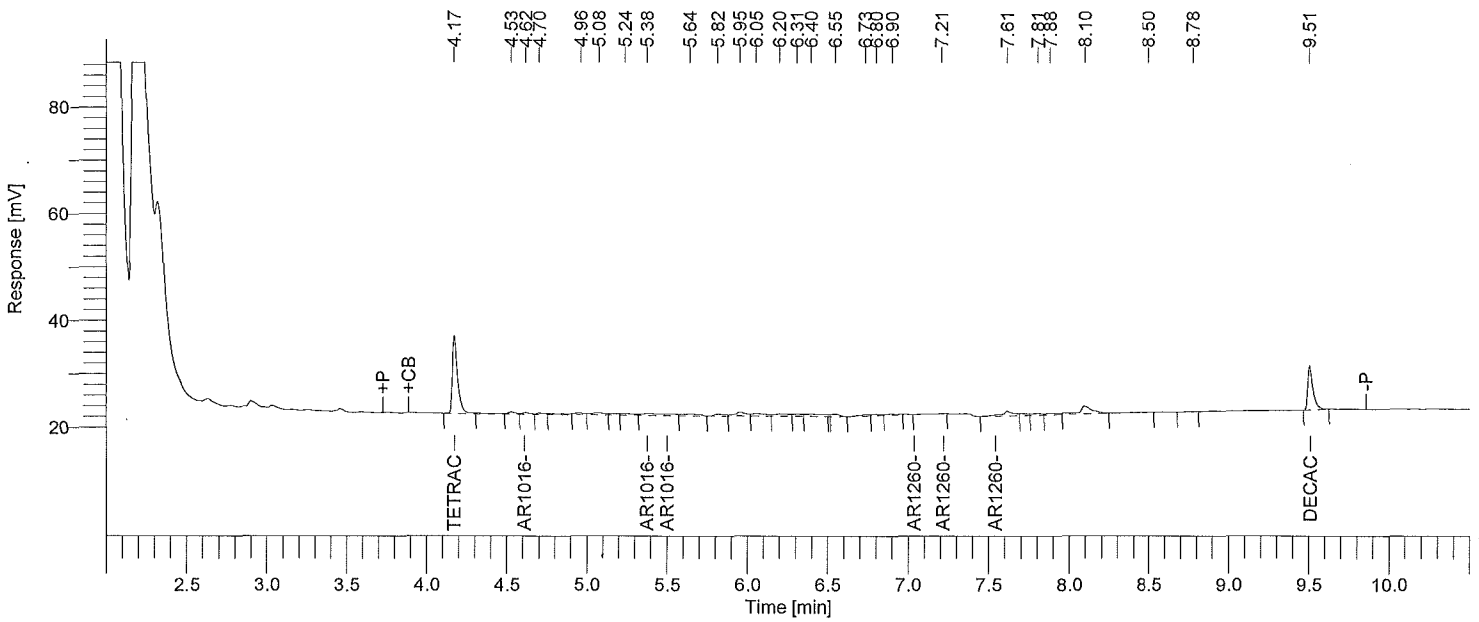

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	32729	0.02870022	1	10	0.03035	0.988	1.6474	9.45642	19.77	47.8
4.62	AR1016-1	1122	0.04488938	1	10	0.03035	0.988	32.9489	14.79057	0.00	------
5.38	AR1016-2	3991	0.05754752	1	10	0.03035	0.988	32.9489	18.96129	0.00	------
5.50	AR1016-3	0	0.00000000	1	10	0.03035	0.988	---------	0.00000	--------	------
7.04	AR1260-1	0	0.00000000	1	10	0.03035	0.988	---------	0.00000	--------	------
7.21	AR1260-2	496	0.01279355	1	10	0.03035	0.988	32.9489	4.21534	0.00	------
7.54	AR1260-3	0	0.00000000	1	10	0.03035	0.988	---------	0.00000	--------	------
9.51	Decachlorobiphenyl	18588	0.06260879	1	10	0.03035	0.988	3.2949	20.62893	39.54	52.2

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M82

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725002

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 20150617A040,20150617B040

% Moisture: 20. Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	41.	U
11104-28-2	Aroclor-1221	41.	U
11141-16-5	Aroclor-1232	41.	U
53469-21-9	Aroclor-1242	41.	U
12672-29-6	Aroclor-1248	41.	U
11097-69-1	Aroclor-1254	41.	U
11096-82-5	Aroclor-1260	41.	U
37324-23-5	Aroclor-1262	41.	U
11100-14-4	Aroclor-1268	41.	U

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:08:57
Operator	: borges	Sample Name	: 1515725002
Sample Number	: 40	Study	: F9M82
AutoSampler	: HP7673A	Rack/Vial	: 0/40
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 04:00:36	Cycle	: 39

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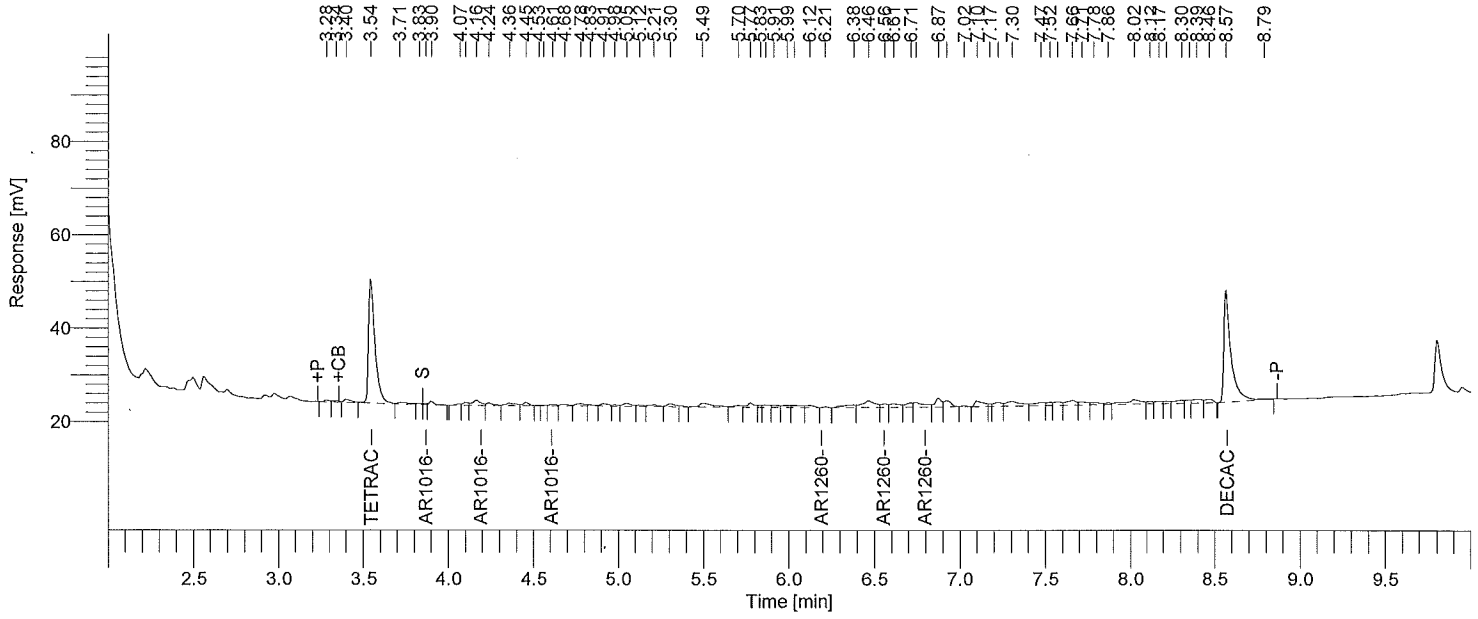

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.54	Tetrachloro-m-xylene	67381	0.03147372	1	10	0.03023	0.992	1.6540	10.41142	19.85	52.5
3.87	AR1016-1	371	8.3201e-03	1	10	0.03023	0.992	33.0797	2.75226	0.00	------
4.16	AR1016-2	3602	0.04190743	1	10	0.03023	0.992	33.0797	13.86286	0.00	------
4.61	AR1016-3	876	5.5080e-03	1	10	0.03023	0.992	33.0797	1.82203	0.00	------
6.21	AR1260-1	486	5.5005e-03	1	10	0.03023	0.992	33.0797	1.81955	0.00	------
6.56	AR1260-2	2141	0.04123905	1	10	0.03023	0.992	33.0797	13.64176	0.00	------
6.80	AR1260-3	0	0.00000000	1	10	0.03023	0.992	---------	0.00000	-------	------
8.57	Decachlorobiphenyl	67849	0.06734189	1	10	0.03023	0.992	3.3080	22.27651	39.70	56.1

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:10:09
Operator	: borges	Sample Name	: 1515725002
Sample Number	: 40	Study	: F9M82
AutoSampler	: HP7673A	Rack/Vial	: 0/40
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/18/2015 04:16:36	Dilution Factor	: 1.00
		Cycle	: 40

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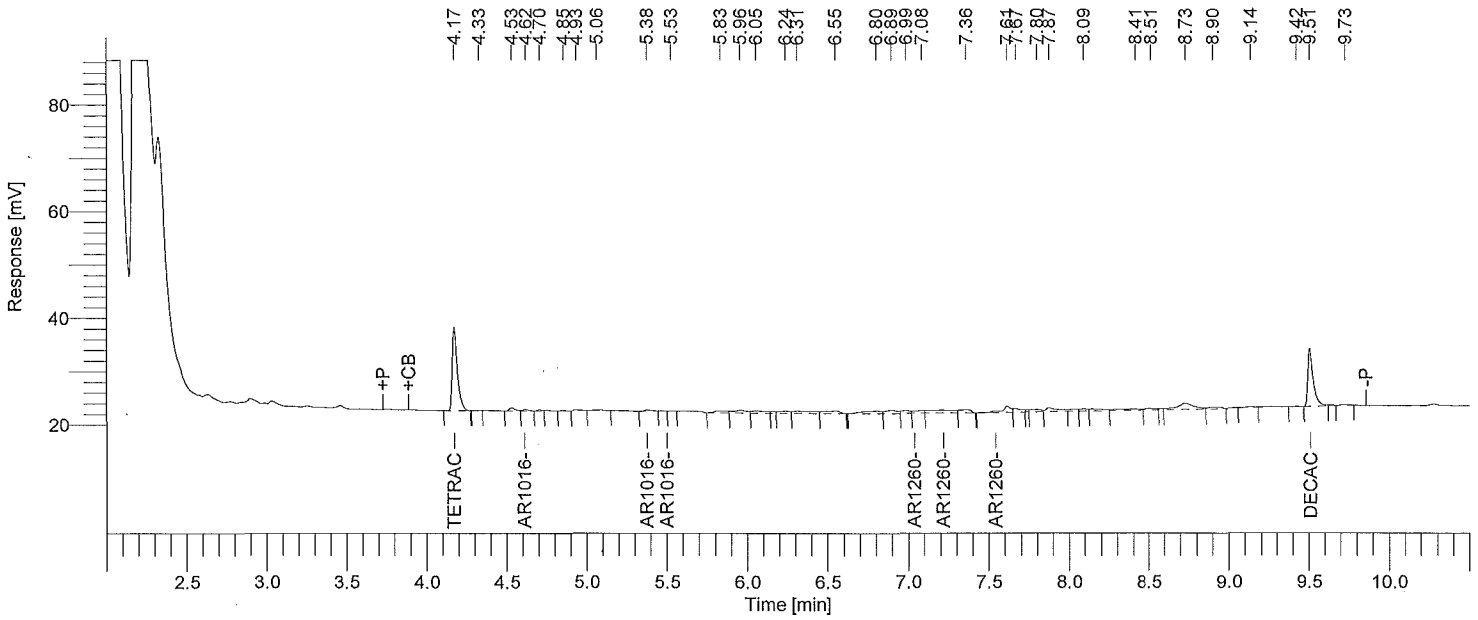
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617_SOM_AROS_F9M15_F9K00_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	34730	0.03045513	1	10	0.03023	0.992	1.6540	10.07447	19.85	50.8
4.62	AR1016-1	713	0.02852315	1	10	0.03023	0.992	33.0797	9.43538	0.00	------
5.38	AR1016-2	618	8.9129e-03	1	10	0.03023	0.992	33.0797	2.94837	0.00	------
5.53	AR1016-3	121	3.8731e-03	1	10	0.03023	0.992	33.0797	1.28122	0.00	------
7.08	AR1260-1	2140	0.05623710	1	10	0.03023	0.992	33.0797	18.60308	0.00	------
7.21	AR1260-2	0	0.00000000	1	10	0.03023	0.992	---------	0.00000	--------	------
7.54	AR1260-3	0	0.00000000	1	10	0.03023	0.992	---------	0.00000	--------	------
9.51	Decachlorobiphenyl	25303	0.08522390	1	10	0.03023	0.992	3.3080	28.19183	39.70	71.0

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M83

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725003

Sample wt/vol: 30.5 (g/mL) g Lab File ID: 20150617A041,20150617B041

% Moisture: 20. Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	41.	U
11104-28-2	Aroclor-1221	41.	U
11141-16-5	Aroclor-1232	41.	U
53469-21-9	Aroclor-1242	41.	U
12672-29-6	Aroclor-1248	41.	U
11097-69-1	Aroclor-1254	41.	U
11096-82-5	Aroclor-1260	41.	U
37324-23-5	Aroclor-1262	41.	U
11100-14-4	Aroclor-1268	41.	U

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:08:59
Operator	: borges	Sample Name	: 1515725003
Sample Number	: 41	Study	: F9M83
AutoSampler	: HP7673A	Rack/Vial	: 0/41
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/18/2015 04:16:36	Dilution Factor	: 1.00
		Cycle	: 40

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Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150617\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_041.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_041.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_041.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
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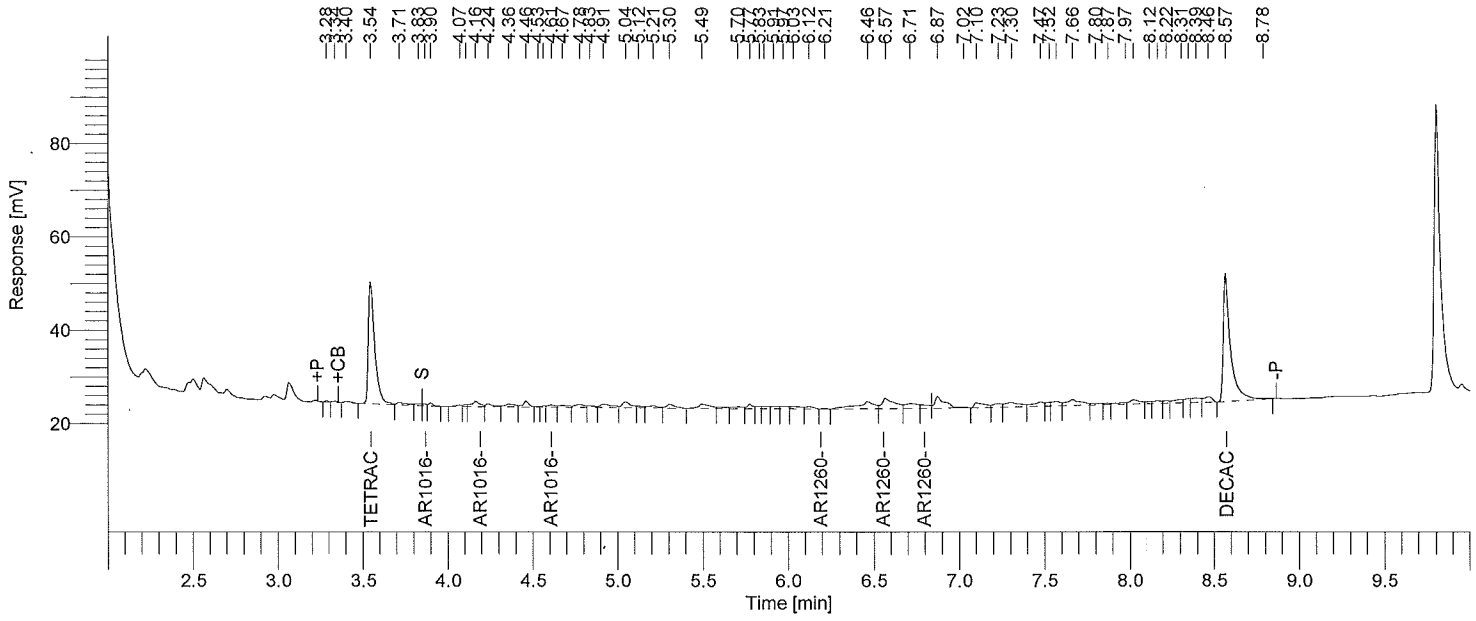

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.54	Tetrachloro-m-xylene	68416	0.03195747	1	10	0.03049	0.984	1.6399	10.48129	19.68	53.3
3.86	AR1016-1	604	0.01354798	1	10	0.03049	0.984	32.7976	4.44342	0.00	------
4.16	AR1016-2	3863	0.04494632	1	10	0.03049	0.984	32.7976	14.74133	0.00	------
4.61	AR1016-3	1472	9.2503e-03	1	10	0.03049	0.984	32.7976	3.03388	0.00	------
6.21	AR1260-1	403	4.5573e-03	1	10	0.03049	0.984	32.7976	1.49469	0.00	------
6.57	AR1260-2	11125	0.21425166	1	10	0.03049	0.984	32.7976	70.26949	0.00	------
6.80	AR1260-3	0	0.00000000	1	10	0.03049	0.984	---------	0.00000	--------	------
8.57	Decachlorobiphenyl	78066	0.07748262	1	10	0.03049	0.984	3.2798	25.41247	39.36	64.6

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:10:10
Operator	: borges	Sample Name	: 1515725003
Sample Number	: 41	Study	: F9M83
AutoSampler	: HP7673A	Rack/Vial	: 0/41
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 04:32:42	Cycle	: 41

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Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_041.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
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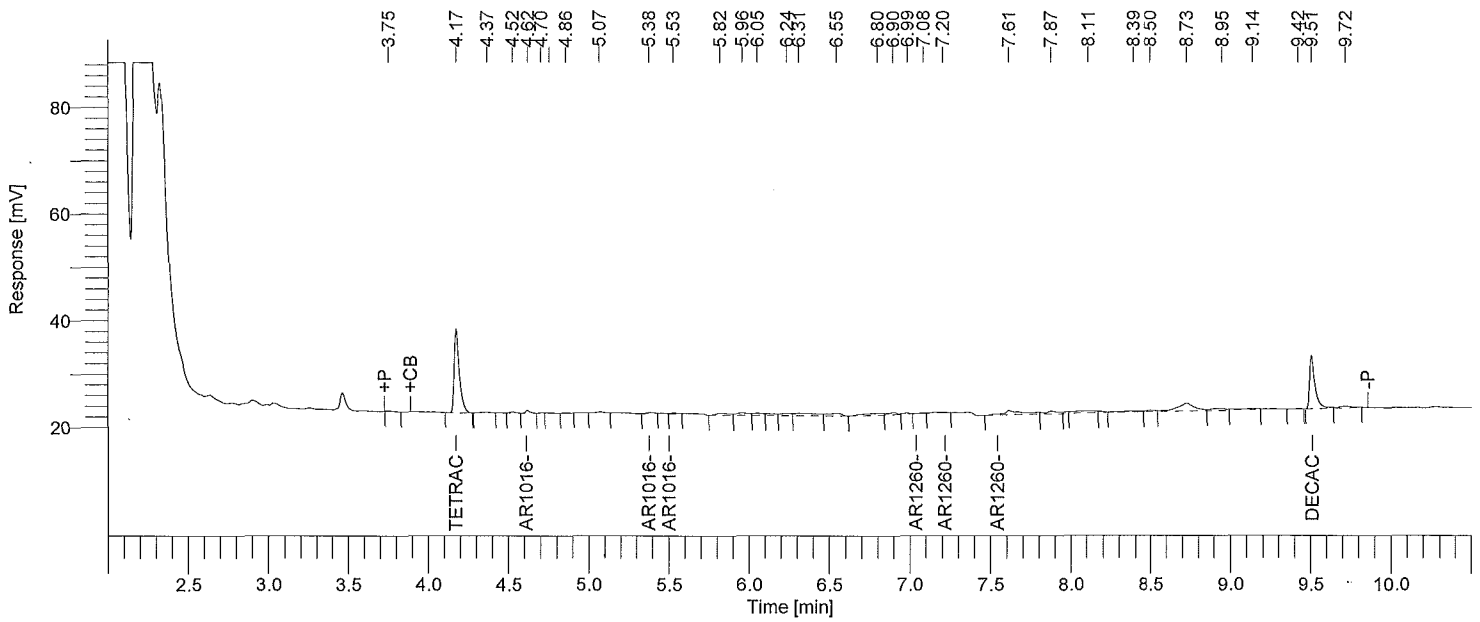

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	35060	0.03074467	1	10	0.03049	0.984	1.6399	10.08353	19.68	51.2
4.62	AR1016-1	1051	0.04206174	1	10	0.03049	0.984	32.7976	13.79526	0.00	------
5.38	AR1016-2	463	6.6805e-03	1	10	0.03049	0.984	32.7976	2.19104	0.00	------
5.53	AR1016-3	340	0.01088727	1	10	0.03049	0.984	32.7976	3.57077	0.00	------
7.08	AR1260-1	259	6.8087e-03	1	10	0.03049	0.984	32.7976	2.23308	0.00	------
7.20	AR1260-2	828	0.02136632	1	10	0.03049	0.984	32.7976	7.00765	0.00	------
7.54	AR1260-3	0	0.00000000	1	10	0.03049	0.984	---------	0.00000	-------	------
9.51	Decachlorobiphenyl	23450	0.07898248	1	10	0.03049	0.984	3.2798	25.90439	39.36	65.8

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M84

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725004

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 20150617A042,20150617B042

% Moisture: 21. Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	41.	U
11104-28-2	Aroclor-1221	41.	U
11141-16-5	Aroclor-1232	41.	U
53469-21-9	Aroclor-1242	41.	U
12672-29-6	Aroclor-1248	41.	U
11097-69-1	Aroclor-1254	41.	U
11096-82-5	Aroclor-1260	41.	U
37324-23-5	Aroclor-1262	41.	U
11100-14-4	Aroclor-1268	41.	U

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:09:01
Operator	: borges	Sample Name	: 1515725004
Sample Number	: 42	Study	: F9M84
AutoSampler	: HP7673A	Rack/Vial	: 0/42
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 04:32:42	Cycle	: 41

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Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_042.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
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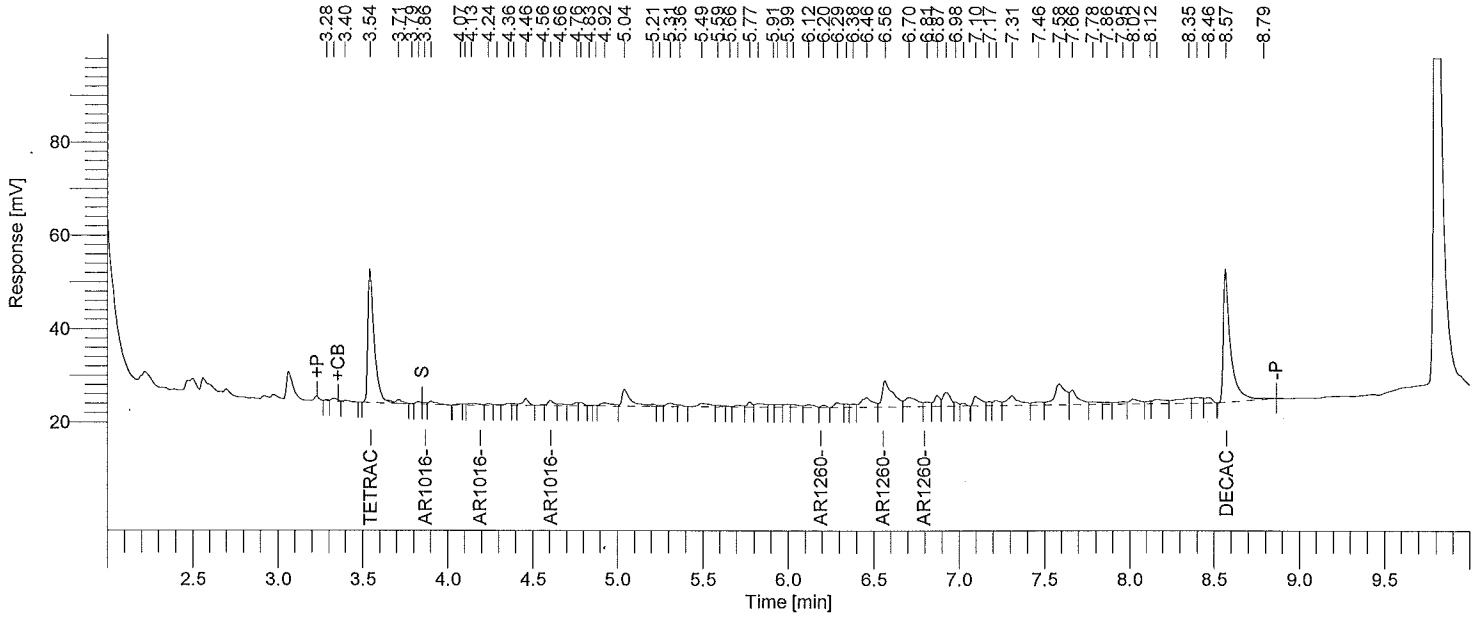

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.54	Tetrachloro-m-xylene	72661	0.03394007	1	10	0.03025	0.992	1.6529	11.21986	19.83	56.6
3.86	AR1016-1	558	0.01250759	1	10	0.03025	0.992	33.0579	4.13474	0.00	------
4.24	AR1016-2	828	9.6371e-03	1	10	0.03025	0.992	33.0579	3.18583	0.00	------
4.60	AR1016-3	2663	0.01674161	1	10	0.03025	0.992	33.0579	5.53442	0.00	------
6.20	AR1260-1	1074	0.01215508	1	10	0.03025	0.992	33.0579	4.01821	0.00	------
6.56	AR1260-2	24722	0.47609659	1	10	0.03025	0.992	33.0579	157.38730	0.00	------
6.81	AR1260-3	2713	0.04816186	1	10	0.03025	0.992	33.0579	15.92127	0.00	------
8.57	Decachlorobiphenyl	81703	0.08109245	1	10	0.03025	0.992	3.3058	26.80742	39.67	67.6

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:10:12
Operator	: borges	Sample Name	: 1515725004
Sample Number	: 42	Study	: F9M84
AutoSampler	: HP7673A	Rack/Vial	: 0/42
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 04:48:58	Cycle	: 42

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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_042.rst
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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
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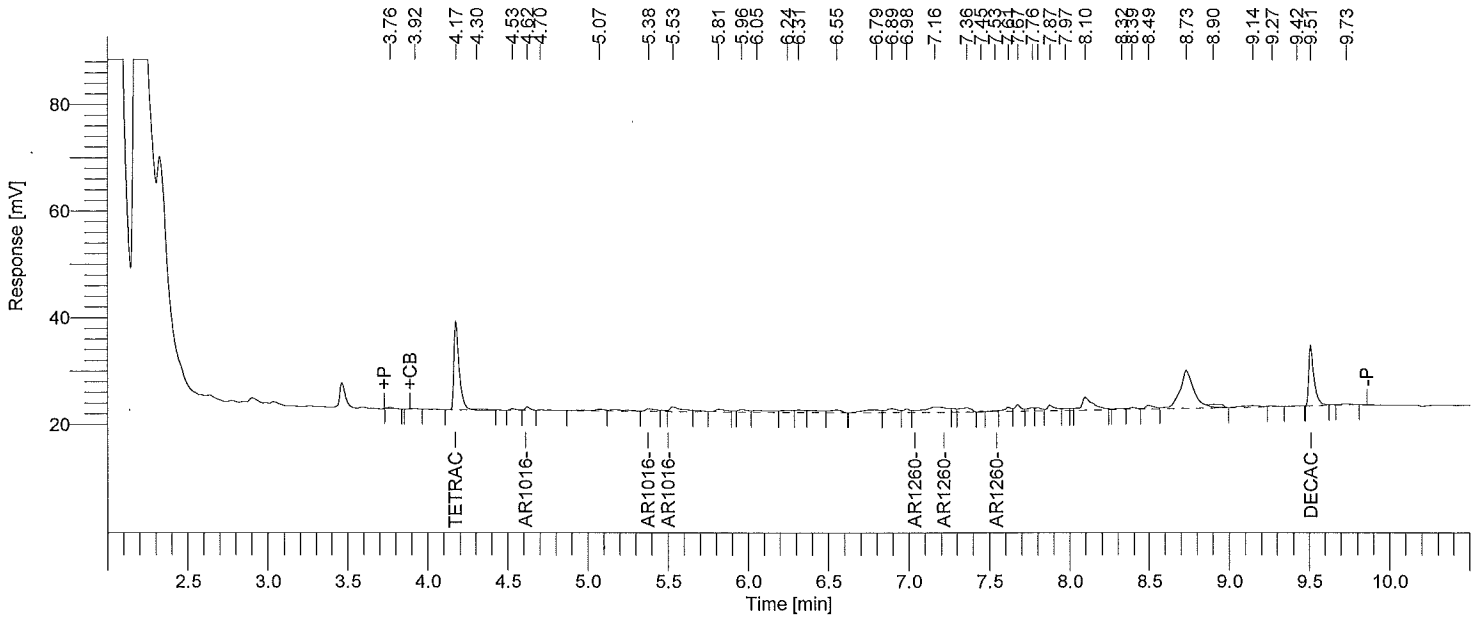

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	37346	0.03274954	1	10	0.03025	0.992	1.6529	10.82629	19.83	54.6
4.62	AR1016-1	1458	0.05837319	1	10	0.03025	0.992	33.0579	19.29692	0.00	------
5.38	AR1016-2	2346	0.03382571	1	10	0.03025	0.992	33.0579	11.18205	0.00	------
5.53	AR1016-3	4661	0.14937048	1	10	0.03025	0.992	33.0579	49.37867	0.00	------
7.04	AR1260-1	0	0.00000000	1	10	0.03025	0.992	--------	0.00000	--------	------
7.21	AR1260-2	0	0.00000000	1	10	0.03025	0.992	--------	0.00000	--------	------
7.53	AR1260-3	832	0.02069454	1	10	0.03025	0.992	33.0579	6.84117	0.00	------
9.51	Decachlorobiphenyl	26083	0.08785146	1	10	0.03025	0.992	3.3058	29.04180	39.67	73.2

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M85

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725005

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 20150617A043,20150617B043

% Moisture: 5.6 Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	35.	U
11104-28-2	Aroclor-1221	35.	U
11141-16-5	Aroclor-1232	35.	U
53469-21-9	Aroclor-1242	35.	U
12672-29-6	Aroclor-1248	35.	U
11097-69-1	Aroclor-1254	35.	U
11096-82-5	Aroclor-1260	35.	U
37324-23-5	Aroclor-1262	35.	U
11100-14-4	Aroclor-1268	35.	U

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:09:03
Operator	: borges	Sample Name	: 1515725005
Sample Number	: 43	Study	: F9M85
AutoSampler	: HP7673A	Rack/Vial	: 0/43
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 04:48:58	Cycle	: 42

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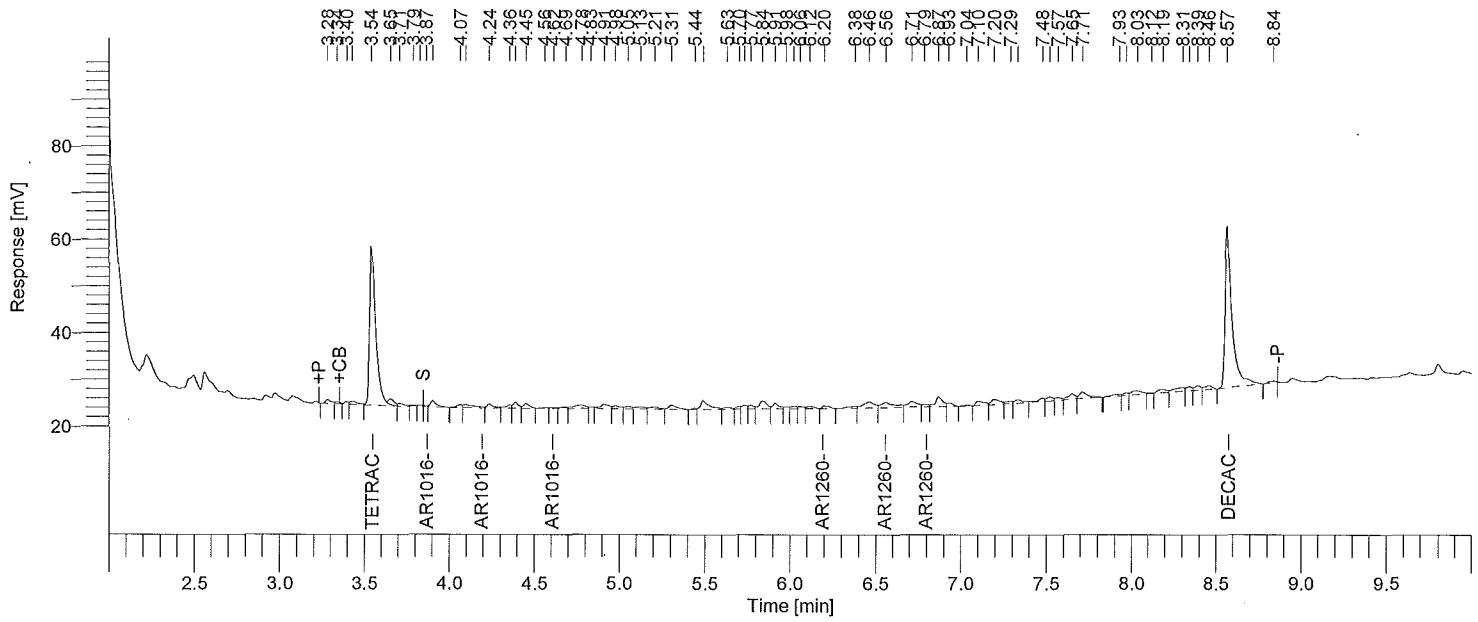

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.54	Tetrachloro-m-xylene	86168	0.04024913	1	10	0.03005	0.998	1.6639	13.39405	19.97	67.1
3.87	AR1016-1	362	8.1184e-03	1	10	0.03005	0.998	33.2779	2.70162	0.00	------
4.24	AR1016-2	2036	0.02368450	1	10	0.03005	0.998	33.2779	7.88170	0.00	------
4.62	AR1016-3	541	3.4000e-03	1	10	0.03005	0.998	33.2779	1.13145	0.00	------
6.20	AR1260-1	1663	0.01882860	1	10	0.03005	0.998	33.2779	6.26576	0.00	------
6.56	AR1260-2	6203	0.11946083	1	10	0.03005	0.998	33.2779	39.75402	0.00	------
6.79	AR1260-3	1427	0.02533004	1	10	0.03005	0.998	33.2779	8.42930	0.00	------
8.57	Decachlorobiphenyl	94941	0.09423169	1	10	0.03005	0.998	3.3278	31.35830	39.93	78.5

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:10:13
Operator	: borges	Sample Name	: 1515725005
Sample Number	: 43	Study	: F9M85
AutoSampler	: HP7673A	Rack/Vial	: 0/43
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 05:05:04	Cycle	: 43

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_043.raw
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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_043.rst
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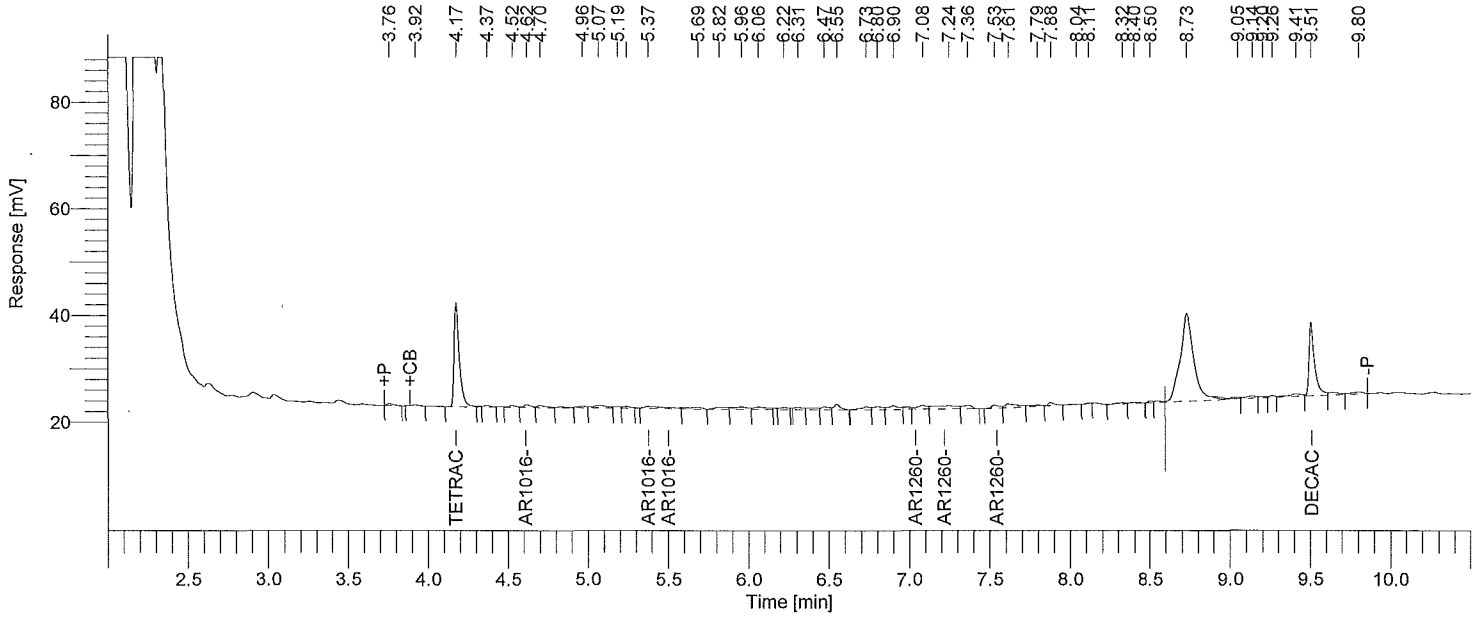

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	44323	0.03886768	1	10	0.03005	0.998	1.6639	12.93434	19.97	64.8
4.62	AR1016-1	1681	0.06726675	1	10	0.03005	0.998	33.2779	22.38494	0.00	------
5.37	AR1016-2	4291	0.06185864	1	10	0.03005	0.998	33.2779	20.58524	0.00	------
5.50	AR1016-3	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	---------	------
7.08	AR1260-1	2906	0.07634351	1	10	0.03005	0.998	33.2779	25.40549	0.00	------
7.24	AR1260-2	6236	0.16083749	1	10	0.03005	0.998	33.2779	53.52329	0.00	------
7.53	AR1260-3	1962	0.04881320	1	10	0.03005	0.998	33.2779	16.24399	0.00	------
9.51	Decachlorobiphenyl	32965	0.11103105	1	10	0.03005	0.998	3.3278	36.94877	39.93	92.5

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M86

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725006

Sample wt/vol: 30.4 (g/mL) g Lab File ID: 20150617A044,20150617B044

% Moisture: 5.2 Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	34.	U
11104-28-2	Aroclor-1221	34.	U
11141-16-5	Aroclor-1232	34.	U
53469-21-9	Aroclor-1242	34.	U
12672-29-6	Aroclor-1248	34.	U
11097-69-1	Aroclor-1254	34.	U
11096-82-5	Aroclor-1260	34.	U
37324-23-5	Aroclor-1262	34.	U
11100-14-4	Aroclor-1268	34.	U

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:09:05
Operator	: borges	Sample Name	: 1515725006
Sample Number	: 44	Study	: F9M86
AutoSampler	: HP7673A	Rack/Vial	: 0/44
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/18/2015 05:05:04	Dilution Factor	: 1.00
		Cycle	: 43

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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
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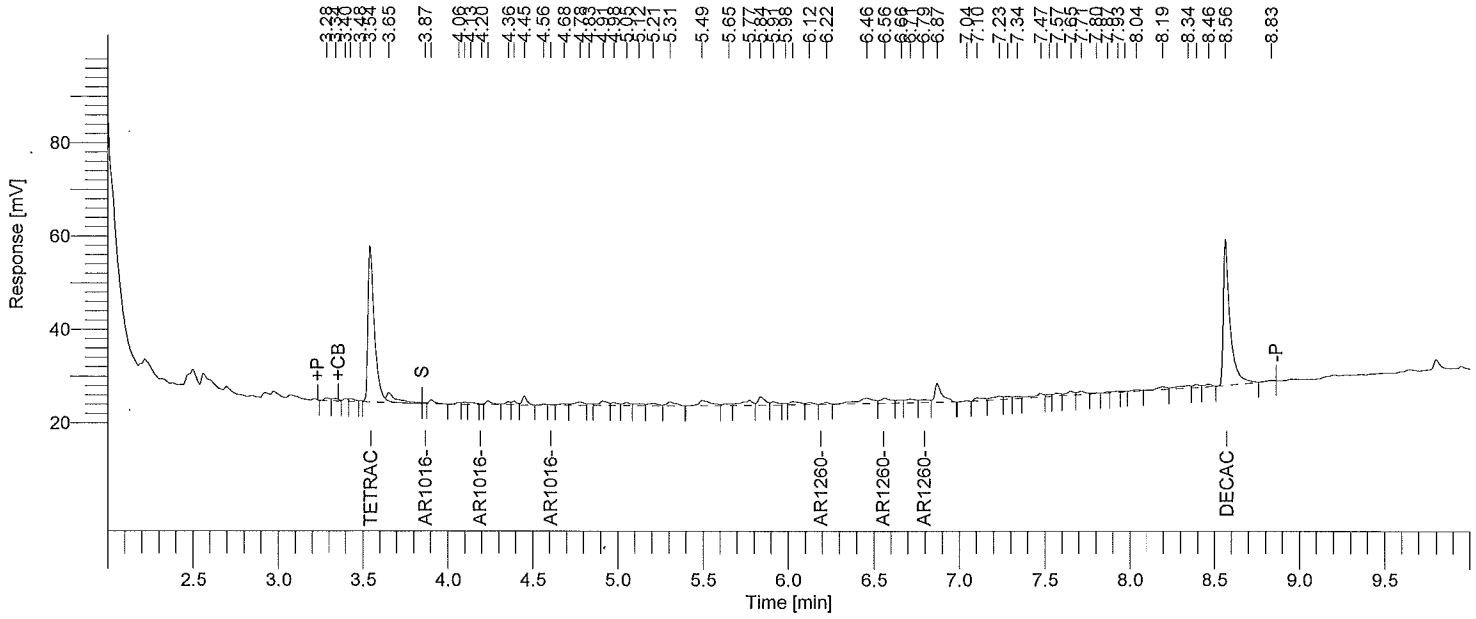

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.54	Tetrachloro-m-xylene	87596	0.04091648	1	10	0.03042	0.986	1.6437	13.45052	19.72	68.2
3.87	AR1016-1	361	8.1059e-03	1	10	0.03042	0.986	32.8731	2.66465	0.00	------
4.20	AR1016-2	325	3.7862e-03	1	10	0.03042	0.986	32.8731	1.24463	0.00	------
4.60	AR1016-3	381	2.3929e-03	1	10	0.03042	0.986	32.8731	0.78663	0.00	------
6.22	AR1260-1	1096	0.01241368	1	10	0.03042	0.986	32.8731	4.08076	0.00	------
6.56	AR1260-2	4986	0.09601656	1	10	0.03042	0.986	32.8731	31.56363	0.00	------
6.79	AR1260-3	2601	0.04617808	1	10	0.03042	0.986	32.8731	15.18017	0.00	------
8.56	Decachlorobiphenyl	83644	0.08301892	1	10	0.03042	0.986	3.2873	27.29090	39.45	69.2

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:10:15
Operator	: borges	Sample Name	: 1515725006
Sample Number	: 44	Study	: F9M86
AutoSampler	: HP7673A	Rack/Vial	: 0/44
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 05:21:20	Cycle	: 44

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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_044.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_044.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
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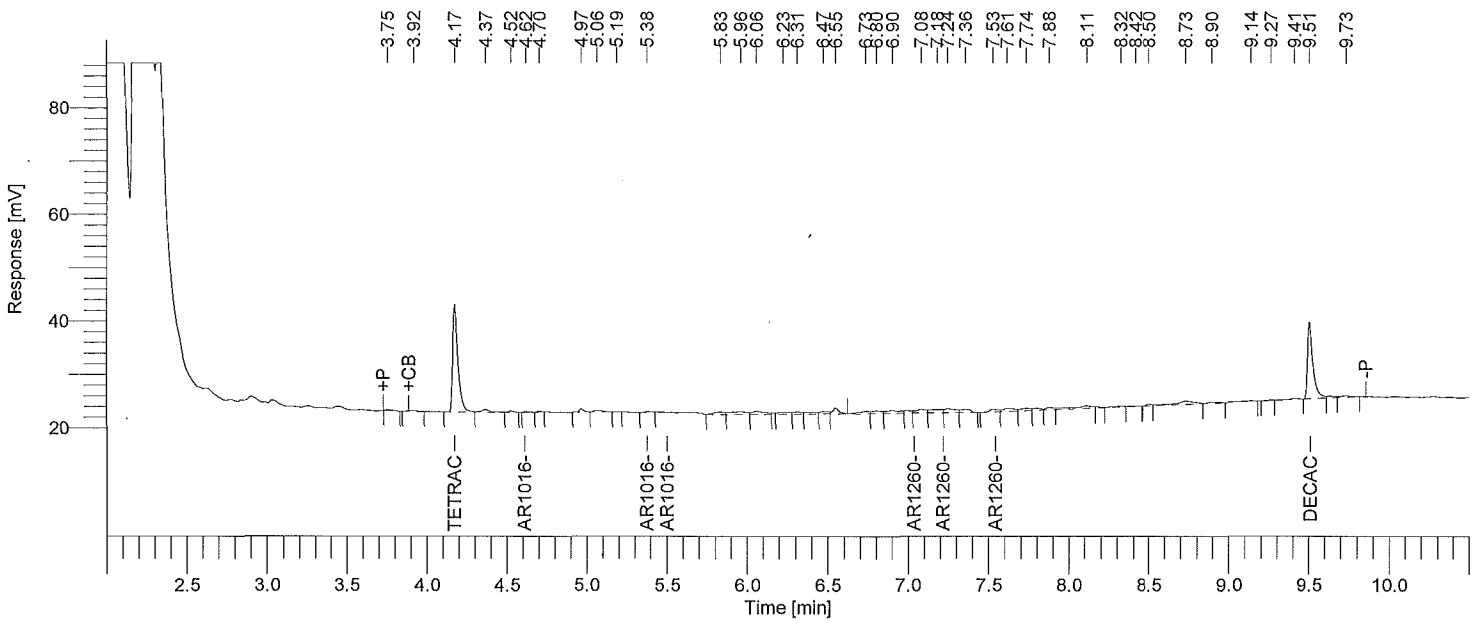

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	45657	0.04003734	1	10	0.03042	0.986	1.6437	13.16152	19.72	66.7
4.62	AR1016-1	383	0.01532455	1	10	0.03042	0.986	32.8731	5.03766	0.00	------
5.38	AR1016-2	370	5.3346e-03	1	10	0.03042	0.986	32.8731	1.75363	0.00	------
5.50	AR1016-3	0	0.00000000	1	10	0.03042	0.986	--------	0.00000	--------	------
7.08	AR1260-1	2891	0.07595613	1	10	0.03042	0.986	32.8731	24.96914	0.00	------
7.24	AR1260-2	3743	0.09652745	1	10	0.03042	0.986	32.8731	31.73157	0.00	------
7.53	AR1260-3	1927	0.04795750	1	10	0.03042	0.986	32.8731	15.76512	0.00	------
9.51	Decachlorobiphenyl	33183	0.11176580	1	10	0.03042	0.986	3.2873	36.74089	39.45	93.1

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M87

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725007

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 20150617A045,20150617B045

% Moisture: 9.5 Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	36.	U
11104-28-2	Aroclor-1221	36.	U
11141-16-5	Aroclor-1232	36.	U
53469-21-9	Aroclor-1242	36.	U
12672-29-6	Aroclor-1248	36.	U
11097-69-1	Aroclor-1254	36.	U
11096-82-5	Aroclor-1260	36.	U
37324-23-5	Aroclor-1262	36.	U
11100-14-4	Aroclor-1268	36.	U

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:09:07
Operator	: borges	Sample Name	: 1515725007
Sample Number	: 45	Study	: F9M87
AutoSampler	: HP7673A	Rack/Vial	: 0/45
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/18/2015 05:21:20	Dilution Factor	: 1.00
		Cycle	: 44

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_045.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_045.rst
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Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_045.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
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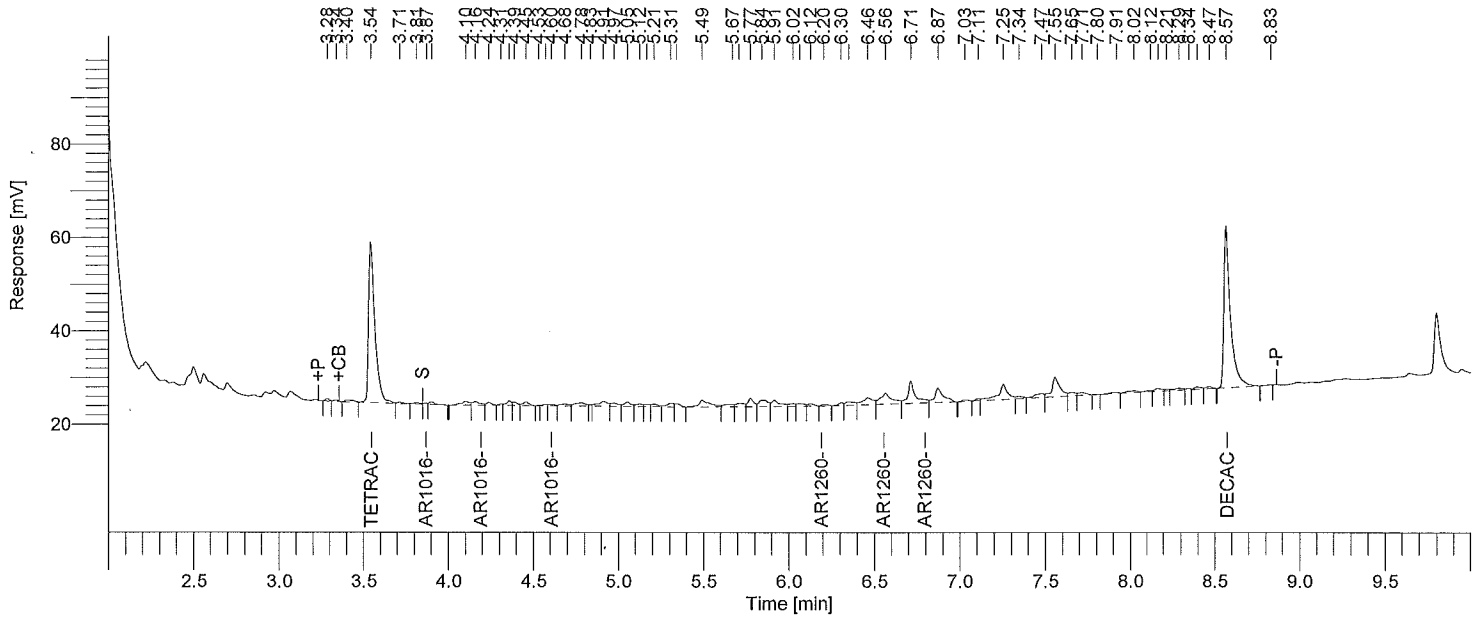

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.54	Tetrachloro-m-xylene	88290	0.04124031	1	10	0.03034	0.989	1.6480	13.59272	19.78	68.7
3.87	AR1016-1	492	0.01102204	1	10	0.03034	0.989	32.9598	3.63284	0.00	------
4.16	AR1016-2	2496	0.02904126	1	10	0.03034	0.989	32.9598	9.57194	0.00	------
4.60	AR1016-3	873	5.4865e-03	1	10	0.03034	0.989	32.9598	1.80834	0.00	------
6.20	AR1260-1	754	8.5366e-03	1	10	0.03034	0.989	32.9598	2.81363	0.00	------
6.56	AR1260-2	10980	0.21145527	1	10	0.03034	0.989	32.9598	69.69521	0.00	------
6.80	AR1260-3	0	0.00000000	1	10	0.03034	0.989	---------	0.00000	--------	------
8.57	Decachlorobiphenyl	91686	0.09100050	1	10	0.03034	0.989	3.2960	29.99357	39.55	75.8

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:10:16
Operator	: borges	Sample Name	: 1515725007
Sample Number	: 45	Study	: F9M87
AutoSampler	: HP7673A	Rack/Vial	: 0/45
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 05:37:24	Cycle	: 45

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_045.raw
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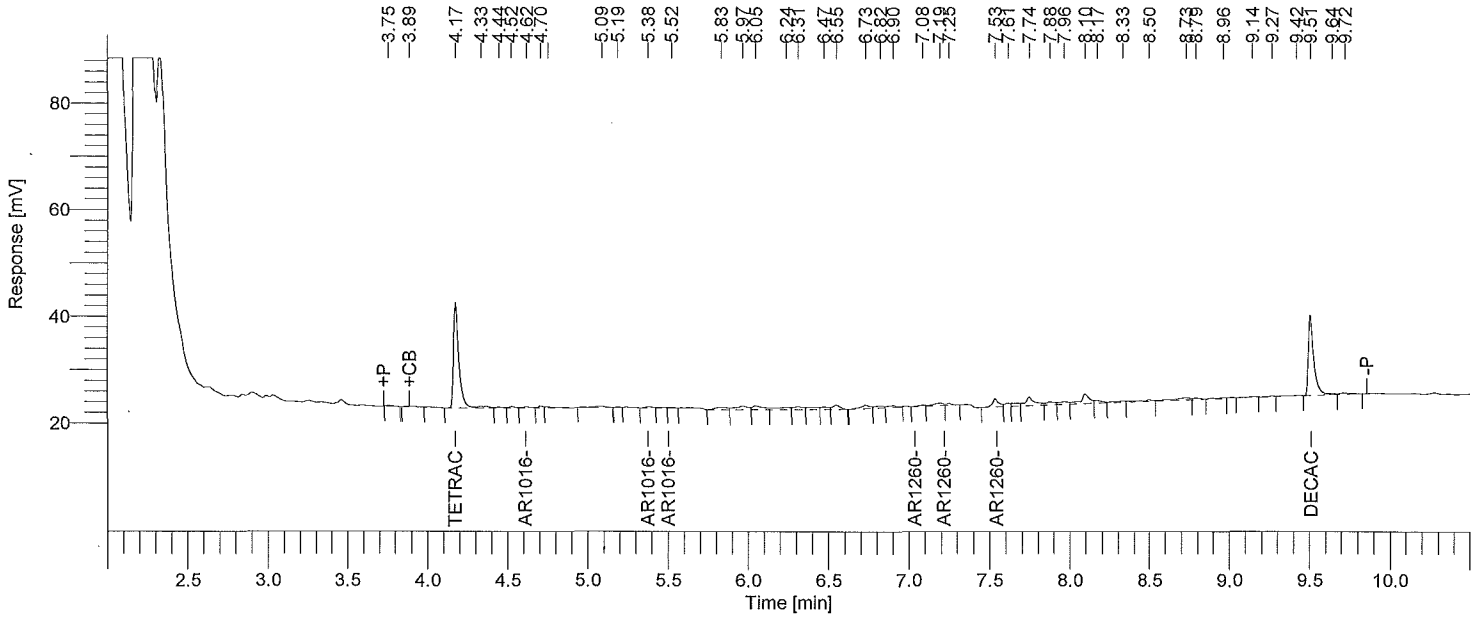
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_045.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617_SOM_AROS_F9M15_F9K00_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	44630	0.03913693	1	10	0.03034	0.989	1.6480	12.89945	19.78	65.2
4.62	AR1016-1	625	0.02501324	1	10	0.03034	0.989	32.9598	8.24431	0.00	------
5.38	AR1016-2	704	0.01014609	1	10	0.03034	0.989	32.9598	3.34413	0.00	------
5.52	AR1016-3	311	9.9707e-03	1	10	0.03034	0.989	32.9598	3.28632	0.00	------
7.08	AR1260-1	702	0.01844658	1	10	0.03034	0.989	32.9598	6.07995	0.00	------
7.19	AR1260-2	2268	0.05848250	1	10	0.03034	0.989	32.9598	19.27571	0.00	------
7.53	AR1260-3	4330	0.10772376	1	10	0.03034	0.989	32.9598	35.50552	0.00	------
9.51	Decachlorobiphenyl	34724	0.11695689	1	10	0.03034	0.989	3.2960	38.54874	39.55	97.5

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M88

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725008

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 20150617A046,20150617B046

% Moisture: 10. Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	37.	U
11104-28-2	Aroclor-1221	37.	U
11141-16-5	Aroclor-1232	37.	U
53469-21-9	Aroclor-1242	37.	U
12672-29-6	Aroclor-1248	37.	U
11097-69-1	Aroclor-1254	37.	U
11096-82-5	Aroclor-1260	37.	U
37324-23-5	Aroclor-1262	37.	U
11100-14-4	Aroclor-1268	37.	U

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:09:09
Operator	: borges	Sample Name	: 1515725008
Sample Number	: 46	Study	: F9M88
AutoSampler	: HP7673A	Rack/Vial	: 0/46
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 05:37:24	Cycle	: 45

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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
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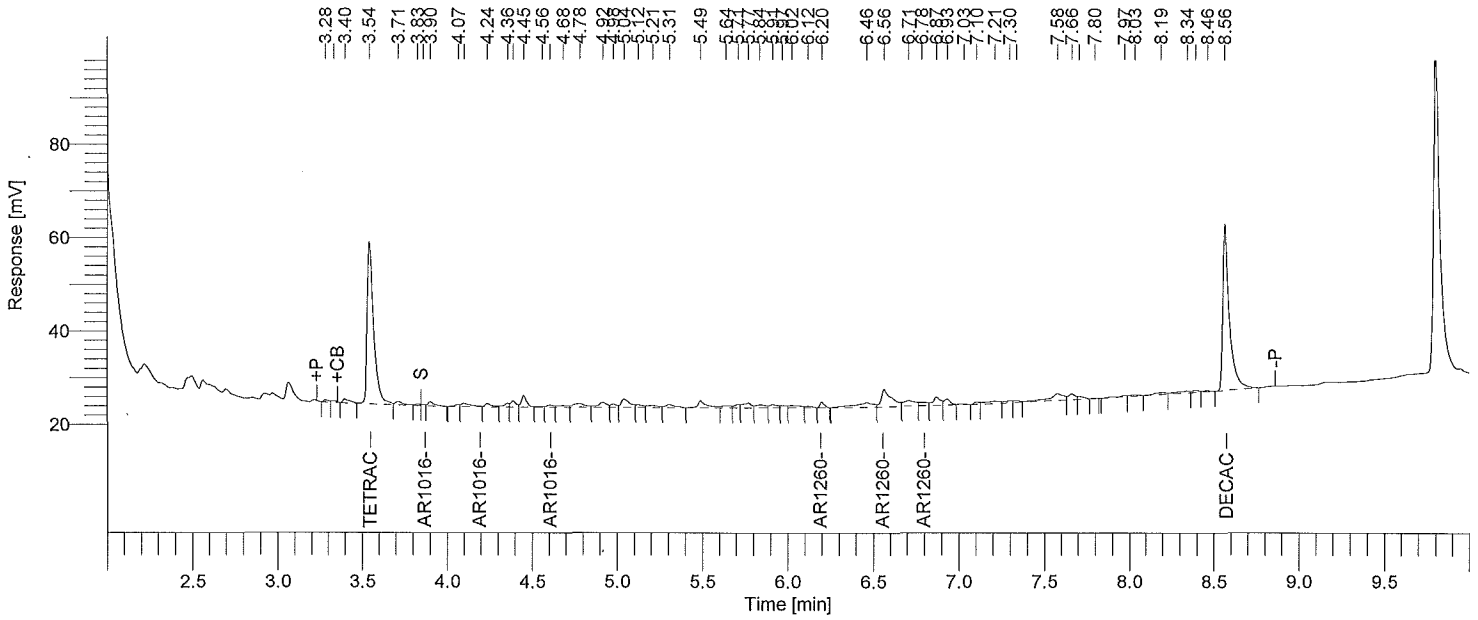

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.54	Tetrachloro-m-xylene	91484	0.04273245	1	10	0.03022	0.993	1.6545	14.14045	19.85	71.2
3.86	AR1016-1	358	8.0379e-03	1	10	0.03022	0.993	33.0907	2.65981	0.00	------
4.24	AR1016-2	1754	0.02040587	1	10	0.03022	0.993	33.0907	6.75244	0.00	------
4.60	AR1016-3	1245	7.8290e-03	1	10	0.03022	0.993	33.0907	2.59068	0.00	------
6.20	AR1260-1	2140	0.02423125	1	10	0.03022	0.993	33.0907	8.01828	0.00	------
6.56	AR1260-2	15586	0.30014898	1	10	0.03022	0.993	33.0907	99.32130	0.00	------
6.78	AR1260-3	2453	0.04355940	1	10	0.03022	0.993	33.0907	14.41410	0.00	------
8.56	Decachlorobiphenyl	93674	0.09297346	1	10	0.03022	0.993	3.3091	30.76554	39.71	77.5

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:10:18
Operator	: borges	Sample Name	: 1515725008
Sample Number	: 46	Study	: F9M88
AutoSampler	: HP7673A	Rack/Vial	: 0/46
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 05:53:28	Cycle	: 46

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_046.raw
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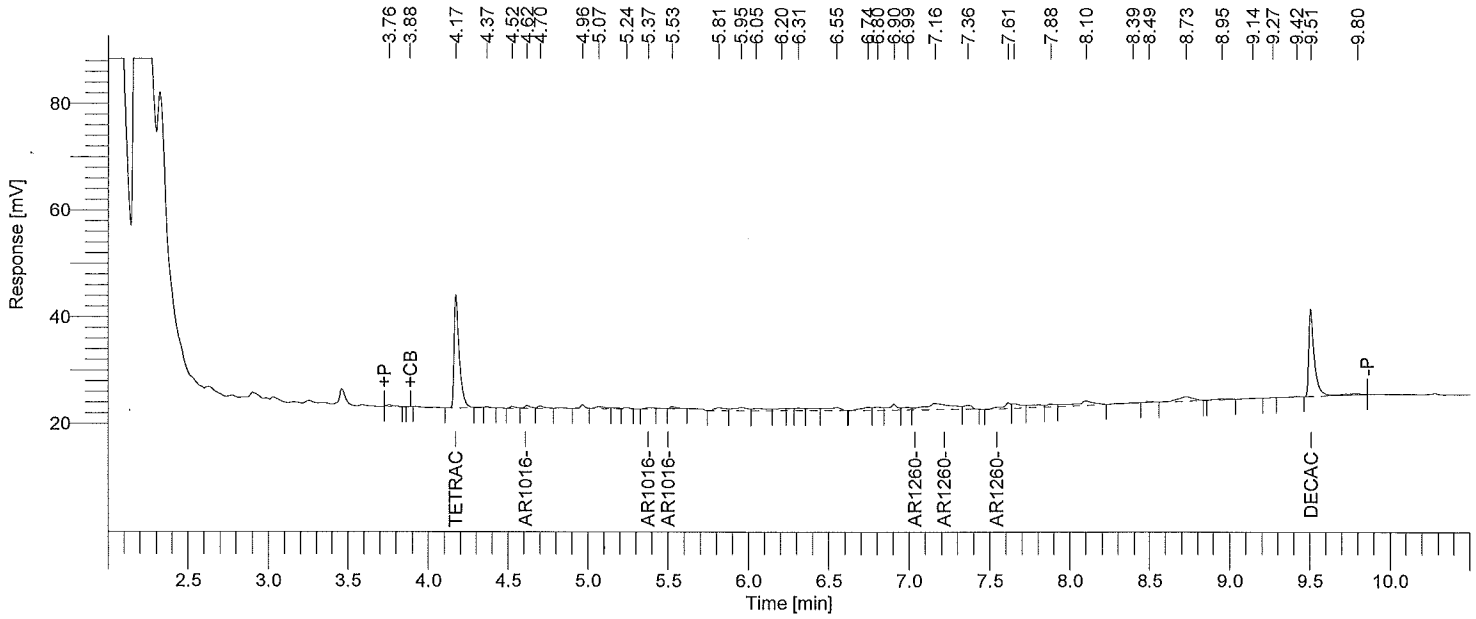
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_046.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_046.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617_SOM_AROS_F9M15_F9K00_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	47964	0.04206059	1	10	0.03022	0.993	1.6545	13.91813	19.85	70.1
4.62	AR1016-1	1185	0.04744484	1	10	0.03022	0.993	33.0907	15.69982	0.00	------
5.37	AR1016-2	688	9.9209e-03	1	10	0.03022	0.993	33.0907	3.28290	0.00	------
5.53	AR1016-3	996	0.03191799	1	10	0.03022	0.993	33.0907	10.56188	0.00	------
6.99	AR1260-1	1847	0.04852931	1	10	0.03022	0.993	33.0907	16.05867	0.00	------
7.21	AR1260-2	0	0.00000000	1	10	0.03022	0.993	---------	0.00000	--------	------
7.54	AR1260-3	0	0.00000000	1	10	0.03022	0.993	---------	0.00000	--------	------
9.51	Decachlorobiphenyl	38412	0.12937740	1	10	0.03022	0.993	3.3091	42.81185	39.71	107.8

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M89

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725009

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 20150617A047,20150617B047

% Moisture: 10. Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	36.	U
11104-28-2	Aroclor-1221	36.	U
11141-16-5	Aroclor-1232	36.	U
53469-21-9	Aroclor-1242	36.	U
12672-29-6	Aroclor-1248	36.	U
11097-69-1	Aroclor-1254	36.	U
11096-82-5	Aroclor-1260	36.	U
37324-23-5	Aroclor-1262	36.	U
11100-14-4	Aroclor-1268	36.	U

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:09:10
Operator	: borges	Sample Name	: 1515725009
Sample Number	: 47	Study	: F9M89
AutoSampler	: HP7673A	Rack/Vial	: 0/47
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 05:53:28	Cycle	: 46

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_047.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_047.rst
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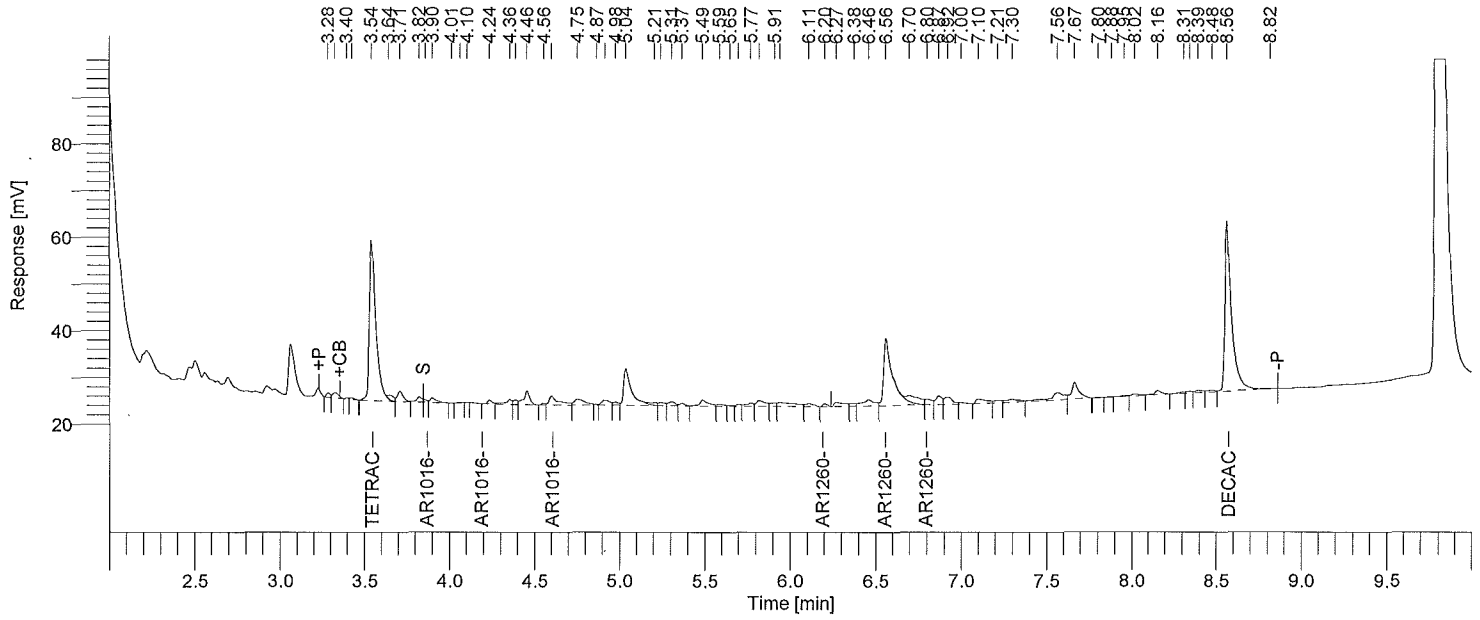
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_047.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_047.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617_SOM_AROS_F9M15_F9K00_A.seq



Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.54	Tetrachloro-m-xylene	90629	0.04233309	1	10	0.03030	0.990	1.6502	13.97132	19.80	70.6
3.86	AR1016-1	756	0.01696371	1	10	0.03030	0.990	33.0033	5.59859	0.00	------
4.24	AR1016-2	1484	0.01726109	1	10	0.03030	0.990	33.0033	5.69673	0.00	------
4.60	AR1016-3	7731	0.04859580	1	10	0.03030	0.990	33.0033	16.03822	0.00	------
6.20	AR1260-1	1173	0.01328182	1	10	0.03030	0.990	33.0033	4.38344	0.00	------
6.56	AR1260-2	54552	1.05056026	1	10	0.03030	0.990	33.0033	346.71956	0.00	------
6.80	AR1260-3	3228	0.05731745	1	10	0.03030	0.990	33.0033	18.91665	0.00	------
8.56	Decachlorobiphenyl	97163	0.09643710	1	10	0.03030	0.990	3.3003	31.82742	39.60	80.4

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:10:19
Operator	: borges	Sample Name	: 1515725009
Sample Number	: 47	Study	: F9M89
AutoSampler	: HP7673A	Rack/Vial	: 0/47
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 06:09:34	Cycle	: 47

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_047.raw
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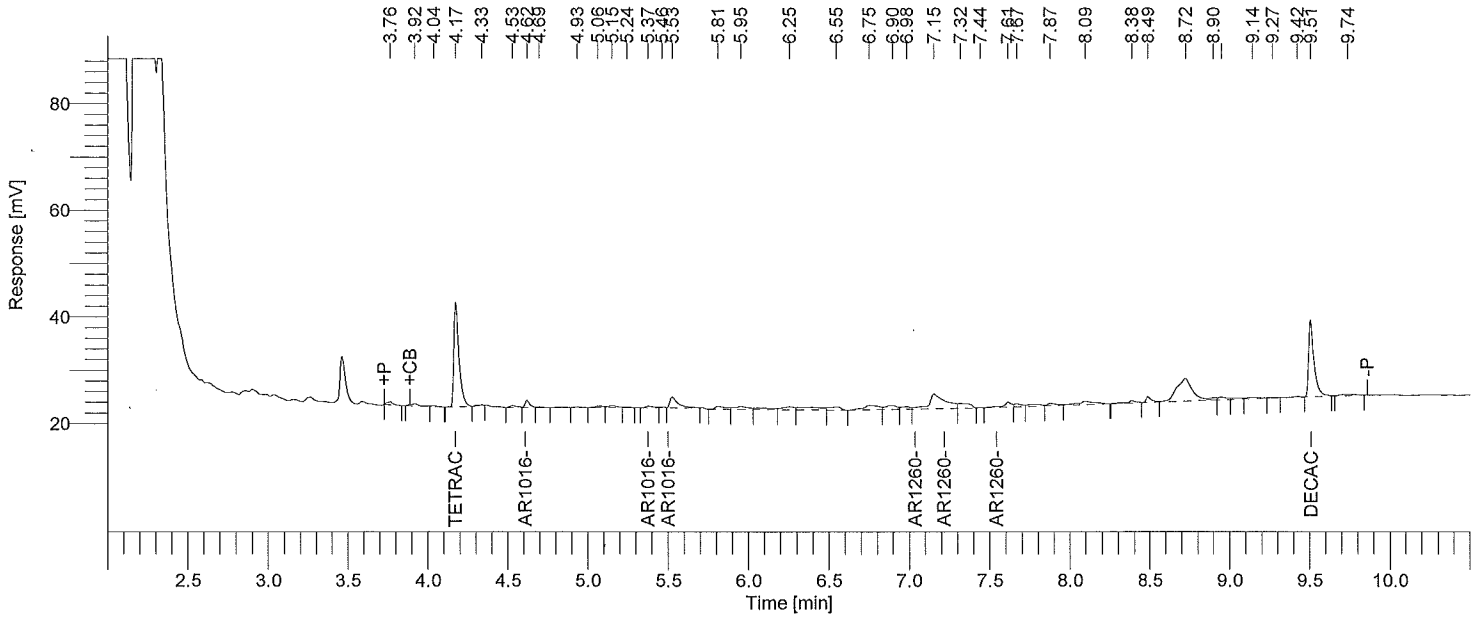
Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150617\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_047.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_047.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_047.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617_SOM_AROS_F9M15_F9K00_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	43695	0.03831685	1	10	0.03030	0.990	1.6502	12.64582	19.80	63.9
4.62	AR1016-1	2634	0.10543888	1	10	0.03030	0.990	33.0033	34.79831	0.00	------
5.37	AR1016-2	1315	0.01895760	1	10	0.03030	0.990	33.0033	6.25663	0.00	------
5.53	AR1016-3	7034	0.22543728	1	10	0.03030	0.990	33.0033	74.40174	0.00	------
7.04	AR1260-1	0	0.00000000	1	10	0.03030	0.990	---------	0.00000	--------	------
7.21	AR1260-2	0	0.00000000	1	10	0.03030	0.990	---------	0.00000	--------	------
7.54	AR1260-3	0	0.00000000	1	10	0.03030	0.990	---------	0.00000	--------	------
9.51	Decachlorobiphenyl	33480	0.11276645	1	10	0.03030	0.990	3.3003	37.21665	39.60	94.0

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M90

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725010

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 20150617A048,20150617B048

% Moisture: 10. Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	37.	U
11104-28-2	Aroclor-1221	37.	U
11141-16-5	Aroclor-1232	37.	U
53469-21-9	Aroclor-1242	37.	U
12672-29-6	Aroclor-1248	37.	U
11097-69-1	Aroclor-1254	37.	U
11096-82-5	Aroclor-1260	37.	U
37324-23-5	Aroclor-1262	37.	U
11100-14-4	Aroclor-1268	37.	U

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:09:12
Operator	: borges	Sample Name	: 1515725010
Sample Number	: 48	Study	: F9M90
AutoSampler	: HP7673A	Rack/Vial	: 0/48
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 06:09:34	Cycle	: 47

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_048.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_048.rst
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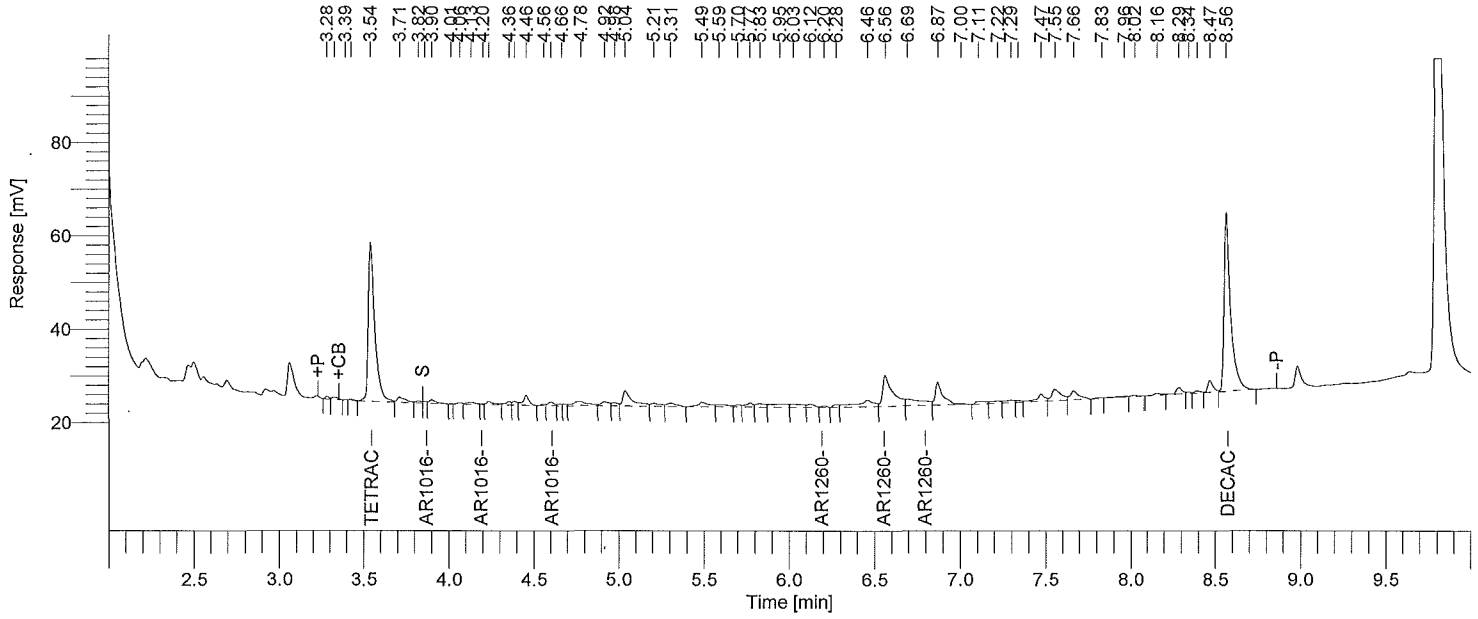
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_048.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_048.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617_SOM_AROS_F9M15_F9K00_A.seq



Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.54	Tetrachloro-m-xylene	89254	0.04169060	1	10	0.03023	0.992	1.6540	13.79114	19.85	69.5
3.86	AR1016-1	595	0.01333169	1	10	0.03023	0.992	33.0797	4.41008	0.00	------
4.20	AR1016-2	244	2.8424e-03	1	10	0.03023	0.992	33.0797	0.94027	0.00	------
4.60	AR1016-3	1777	0.01116958	1	10	0.03023	0.992	33.0797	3.69487	0.00	------
6.20	AR1260-1	646	7.3135e-03	1	10	0.03023	0.992	33.0797	2.41928	0.00	------
6.56	AR1260-2	27838	0.53611125	1	10	0.03023	0.992	33.0797	177.34411	0.00	------
6.80	AR1260-3	0	0.00000000	1	10	0.03023	0.992	---------	0.00000	-------	------
8.56	Decachlorobiphenyl	99167	0.09842605	1	10	0.03023	0.992	3.3080	32.55906	39.70	82.0

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:10:21
Operator	: borges	Sample Name	: 1515725010
Sample Number	: 48	Study	: F9M90
AutoSampler	: HP7673A	Rack/Vial	: 0/48
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 06:25:34	Cycle	: 48

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_048.raw
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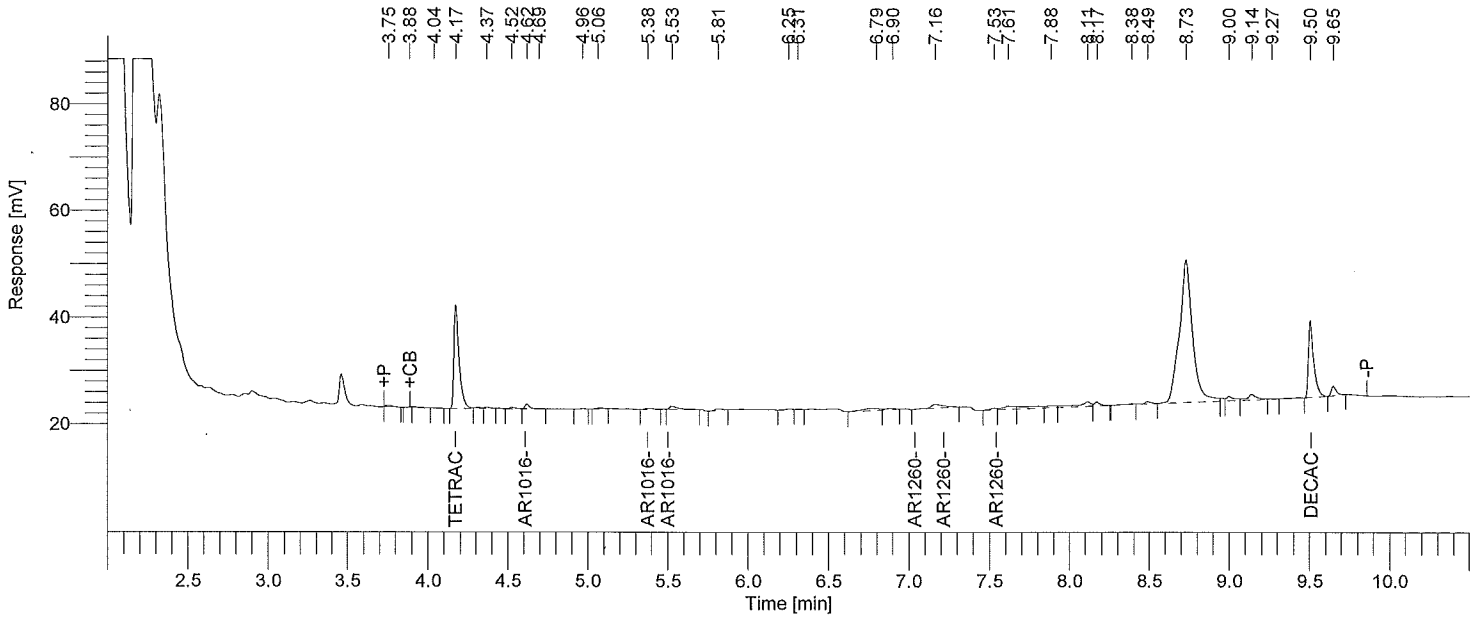
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_048.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_048.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617_SOM_AROS_F9M15_F9K00_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	43627	0.03825703	1	10	0.03023	0.992	1.6540	12.65532	19.85	63.8
4.62	AR1016-1	1755	0.07025774	1	10	0.03023	0.992	33.0797	23.24106	0.00	------
5.38	AR1016-2	1067	0.01538111	1	10	0.03023	0.992	33.0797	5.08803	0.00	------
5.53	AR1016-3	2510	0.08043965	1	10	0.03023	0.992	33.0797	26.60921	0.00	------
7.04	AR1260-1	0	0.00000000	1	10	0.03023	0.992	--------	0.00000	--------	------
7.21	AR1260-2	0	0.00000000	1	10	0.03023	0.992	--------	0.00000	--------	------
7.53	AR1260-3	891	0.02215920	1	10	0.03023	0.992	33.0797	7.33020	0.00	------
9.50	Decachlorobiphenyl	32105	0.10813411	1	10	0.03023	0.992	3.3080	35.77046	39.70	90.1

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M91

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725011

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 20150617A049,20150617B049

% Moisture: 8.4 Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	36.	U
11104-28-2	Aroclor-1221	36.	U
11141-16-5	Aroclor-1232	36.	U
53469-21-9	Aroclor-1242	36.	U
12672-29-6	Aroclor-1248	36.	U
11097-69-1	Aroclor-1254	36.	U
11096-82-5	Aroclor-1260	36.	U
37324-23-5	Aroclor-1262	36.	U
11100-14-4	Aroclor-1268	36.	U

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:09:14
Operator	: borges	Sample Name	: 1515725011
Sample Number	: 49	Study	: F9M91
AutoSampler	: HP7673A	Rack/Vial	: 0/49
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/18/2015 06:25:34	Dilution Factor	: 1.00
		Cycle	: 48

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_049.raw
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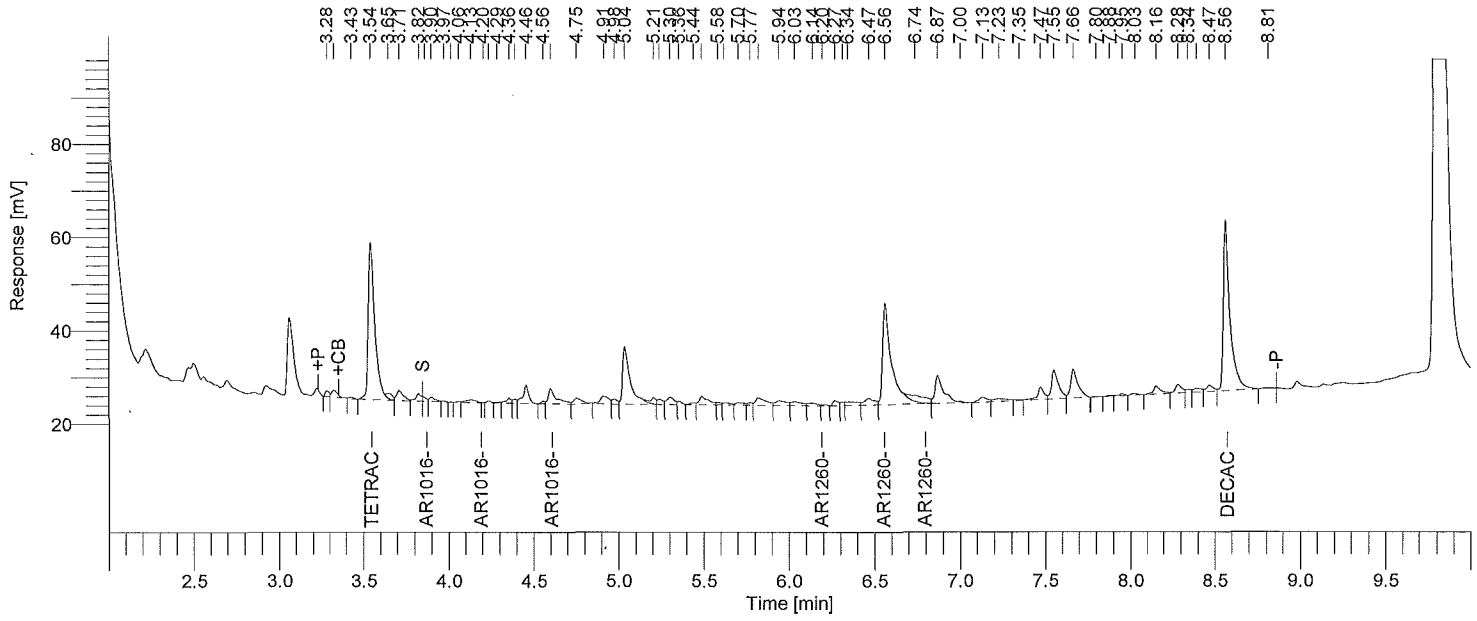
Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150617\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_049.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_049.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_049.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617_SOM_AROS_F9M15_F9K00_A.seq



Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.54	Tetrachloro-m-xylene	90146	0.04210731	1	10	0.03006	0.998	1.6633	14.00775	19.96	70.2
3.86	AR1016-1	1430	0.03206343	1	10	0.03006	0.998	33.2668	10.66648	0.00	------
4.20	AR1016-2	80	9.2589e-04	1	10	0.03006	0.998	33.2668	0.30802	0.00	------
4.60	AR1016-3	10531	0.06620085	1	10	0.03006	0.998	33.2668	22.02291	0.00	------
6.20	AR1260-1	526	5.9540e-03	1	10	0.03006	0.998	33.2668	1.98070	0.00	------
6.56	AR1260-2	80051	1.54162008	1	10	0.03006	0.998	33.2668	512.84766	0.00	------
6.80	AR1260-3	0	0.00000000	1	10	0.03006	0.998	---------	0.00000	-------	------
8.56	Decachlorobiphenyl	97535	0.09680588	1	10	0.03006	0.998	3.3267	32.20422	39.92	80.7

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:10:22
Operator	: borges	Sample Name	: 1515725011
Sample Number	: 49	Study	: F9M91
AutoSampler	: HP7673A	Rack/Vial	: 0/49
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 06:41:36	Cycle	: 49

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_049.raw
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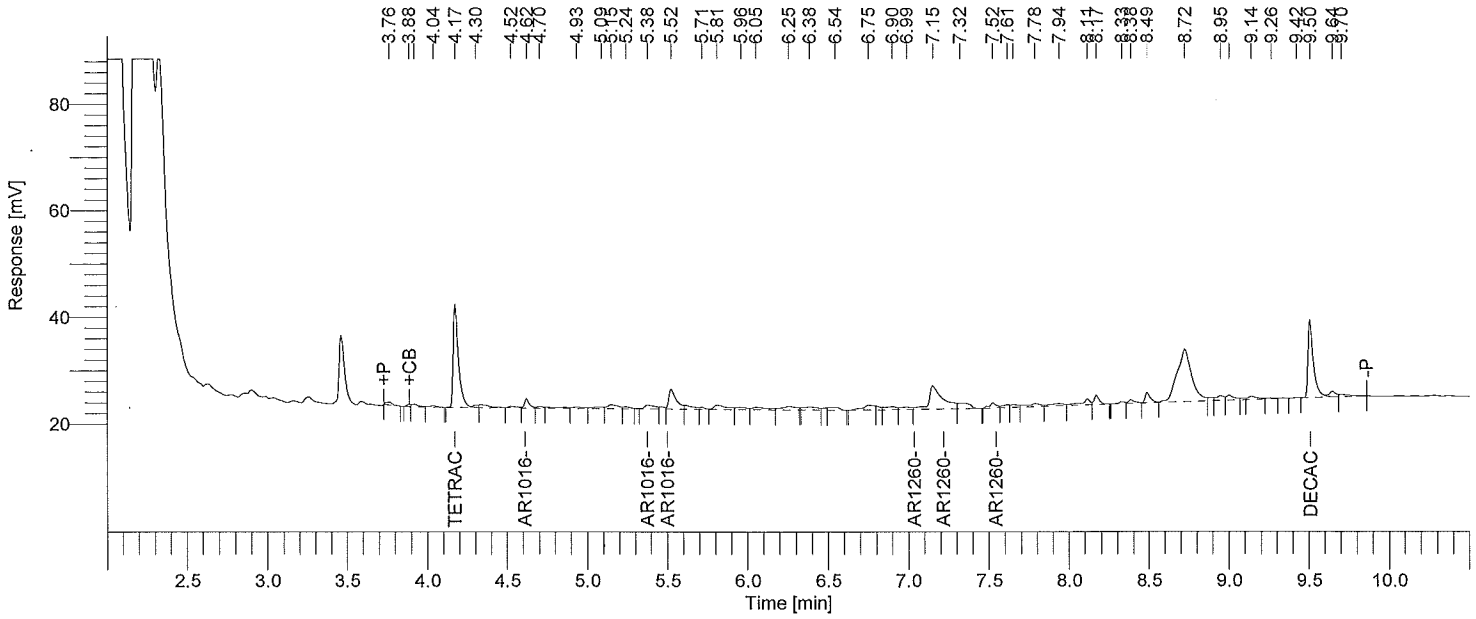
Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150617\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_049.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_049.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_049.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617_SOM_AROS_F9M15_F9K00_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	44063	0.03863970	1	10	0.03006	0.998	1.6633	12.85419	19.96	64.4
4.62	AR1016-1	3389	0.13564514	1	10	0.03006	0.998	33.2668	45.12480	0.00	------
5.38	AR1016-2	3454	0.04980527	1	10	0.03006	0.998	33.2668	16.56862	0.00	------
5.52	AR1016-3	12014	0.38501687	1	10	0.03006	0.998	33.2668	128.08279	0.00	------
6.99	AR1260-1	2166	0.05690421	1	10	0.03006	0.998	33.2668	18.93021	0.00	------
7.21	AR1260-2	0	0.00000000	1	10	0.03006	0.998	---------	0.00000	--------	------
7.52	AR1260-3	2869	0.07137320	1	10	0.03006	0.998	33.2668	23.74358	0.00	------
9.50	Decachlorobiphenyl	33848	0.11400545	1	10	0.03006	0.998	3.3267	37.92597	39.92	95.0

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M92

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725014

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20150617A052,20150617B052

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

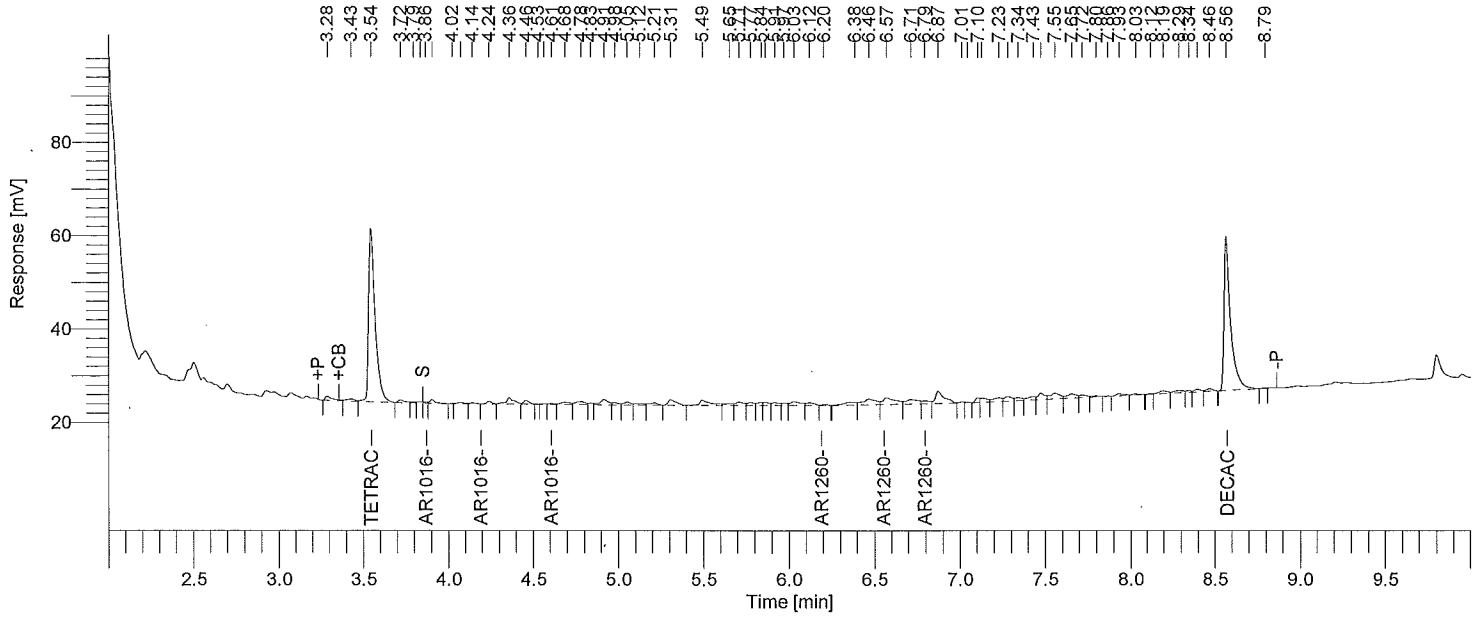
GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	37.	U
11104-28-2	Aroclor-1221	37.	U
11141-16-5	Aroclor-1232	37.	U
53469-21-9	Aroclor-1242	37.	U
12672-29-6	Aroclor-1248	37.	U
11097-69-1	Aroclor-1254	37.	U
11096-82-5	Aroclor-1260	37.	U
37324-23-5	Aroclor-1262	37.	U
11100-14-4	Aroclor-1268	37.	U

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:09:19
Operator	: borges	Sample Name	: 1515725014
Sample Number	: 52	Study	: F9M92
AutoSampler	: HP7673A	Rack/Vial	: 0/52
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 07:13:58	Cycle	: 51

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_052.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_052.rst
Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150617\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_052.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_052.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_052.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617_SOM_AROS_F9M15_F9K00_A.seq



Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.54	Tetrachloro-m-xylene	96860	0.04524338	1	10	0.03001	1.000	1.6661	15.07610	19.99	75.4
3.86	AR1016-1	426	9.5435e-03	1	10	0.03001	1.000	33.3222	3.18011	0.00	------
4.24	AR1016-2	1376	0.01600474	1	10	0.03001	1.000	33.3222	5.33314	0.00	------
4.61	AR1016-3	514	3.2279e-03	1	10	0.03001	1.000	33.3222	1.07562	0.00	------
6.20	AR1260-1	583	6.6051e-03	1	10	0.03001	1.000	33.3222	2.20095	0.00	------
6.57	AR1260-2	7452	0.14350408	1	10	0.03001	1.000	33.3222	47.81875	0.00	------
6.79	AR1260-3	2159	0.03833469	1	10	0.03001	1.000	33.3222	12.77397	0.00	------
8.56	Decachlorobiphenyl	87068	0.08641702	1	10	0.03001	1.000	3.3322	28.79608	39.99	72.0

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:10:27
Operator	: borges	Sample Name	: 1515725014
Sample Number	: 52	Study	: F9M92
AutoSampler	: HP7673A	Rack/Vial	: 0/52
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/18/2015 07:29:58	Dilution Factor	: 1.00
		Cycle	: 52

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_052.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_052.rst
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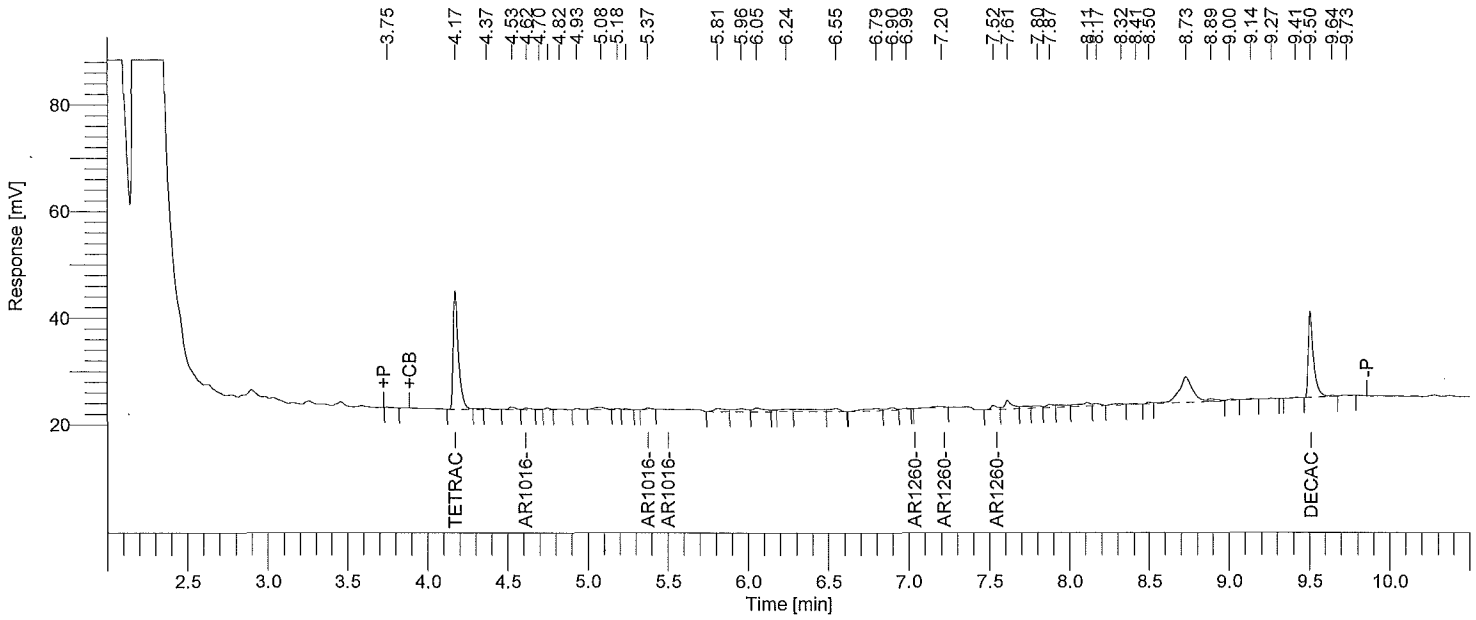
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_052.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_052.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617_SOM_AROS_F9M15_F9K00_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	50120	0.04395115	1	10	0.03001	1.000	1.6661	14.64550	19.99	73.3
4.62	AR1016-1	1026	0.04105048	1	10	0.03001	1.000	33.3222	13.67893	0.00	-----
5.37	AR1016-2	666	9.6036e-03	1	10	0.03001	1.000	33.3222	3.20013	0.00	-----
5.50	AR1016-3	0	0.00000000	1	10	0.03001	1.000	--------	0.00000	--------	-----
7.04	AR1260-1	0	0.00000000	1	10	0.03001	1.000	--------	0.00000	--------	-----
7.20	AR1260-2	1408	0.03632458	1	10	0.03001	1.000	33.3222	12.10416	0.00	-----
7.52	AR1260-3	2050	0.05101720	1	10	0.03001	1.000	33.3222	17.00007	0.00	-----
9.50	Decachlorobiphenyl	37108	0.12498534	1	10	0.03001	1.000	3.3322	41.64790	39.99	104.2

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M93

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725015

Sample wt/vol: 30.4 (g/mL) g Lab File ID: 20150617A053,20150617B053

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	37.	U
11104-28-2	Aroclor-1221	37.	U
11141-16-5	Aroclor-1232	37.	U
53469-21-9	Aroclor-1242	37.	U
12672-29-6	Aroclor-1248	37.	U
11097-69-1	Aroclor-1254	37.	U
11096-82-5	Aroclor-1260	37.	U
37324-23-5	Aroclor-1262	37.	U
11100-14-4	Aroclor-1268	37.	U

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:09:21
Operator	: borges	Sample Name	: 1515725015
Sample Number	: 53	Study	: F9M93
AutoSampler	: HP7673A	Rack/Vial	: 0/53
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/18/2015 07:29:58	Dilution Factor	: 1.00
		Cycle	: 52

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_053.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_053.rst
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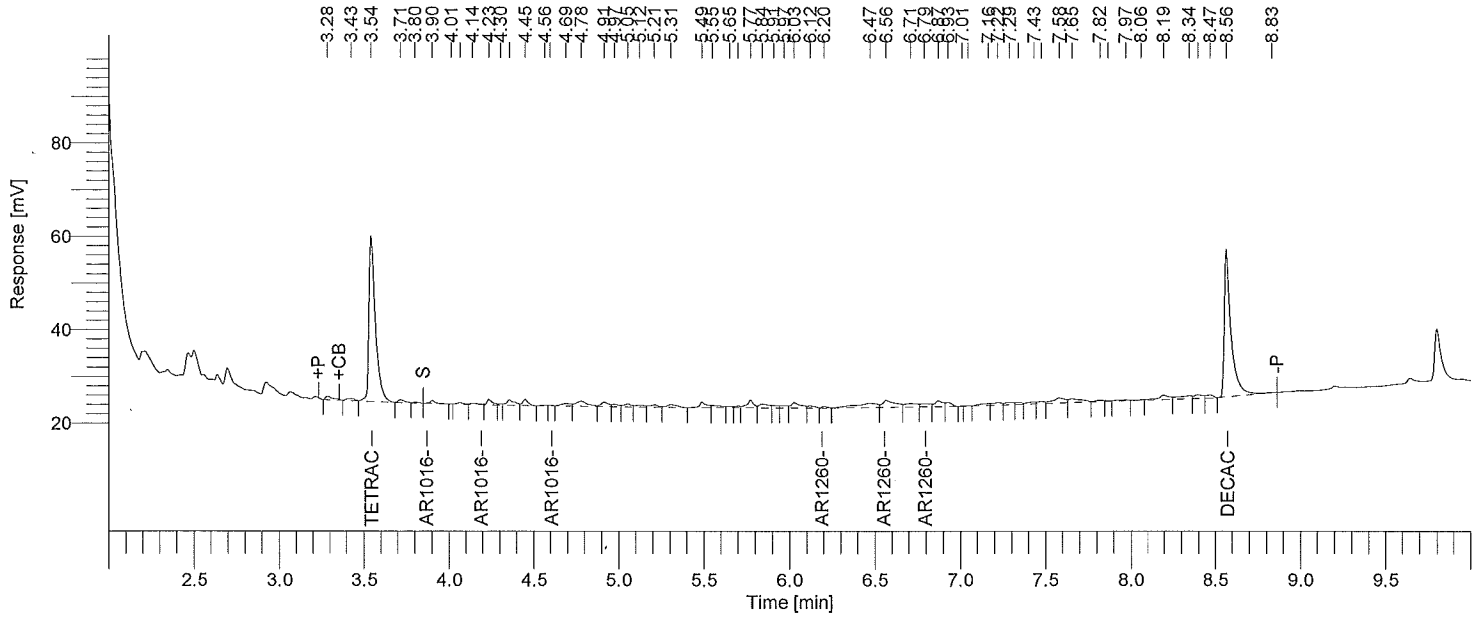
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_053.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617_SOM_AROS_F9M15_F9K00_A.seq



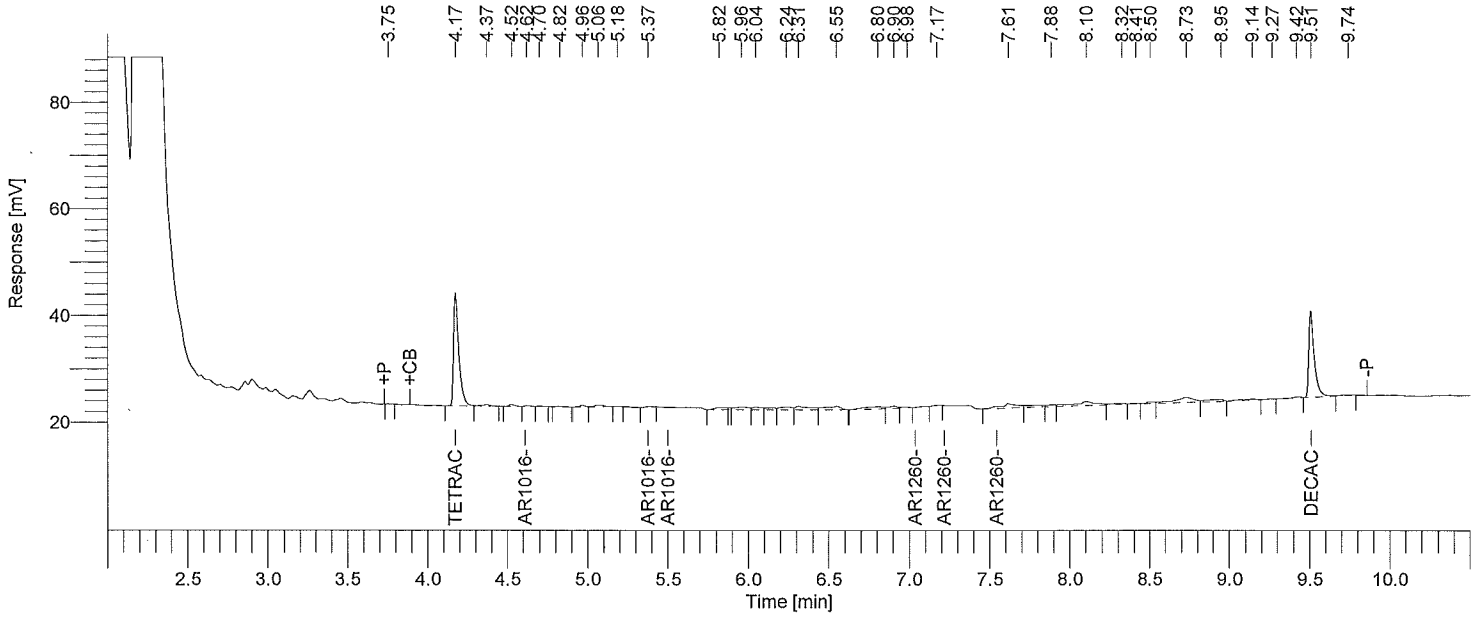
Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.54	Tetrachloro-m-xylene	92513	0.04321301	1	10	0.03043	0.986	1.6431	14.20079	19.72	72.0
3.90	AR1016-1	1407	0.03155667	1	10	0.03043	0.986	32.8623	10.37025	0.00	------
4.23	AR1016-2	2550	0.02966456	1	10	0.03043	0.986	32.8623	9.74846	0.00	------
4.60	AR1016-3	314	1.9760e-03	1	10	0.03043	0.986	32.8623	0.64936	0.00	------
6.20	AR1260-1	781	8.8393e-03	1	10	0.03043	0.986	32.8623	2.90479	0.00	------
6.56	AR1260-2	7724	0.14874697	1	10	0.03043	0.986	32.8623	48.88168	0.00	------
6.79	AR1260-3	2658	0.04718630	1	10	0.03043	0.986	32.8623	15.50651	0.00	------
8.56	Decachlorobiphenyl	85539	0.08489968	1	10	0.03043	0.986	3.2862	27.89999	39.43	70.7

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:10:28
Operator	: borges	Sample Name	: 1515725015
Sample Number	: 53	Study	: F9M93
AutoSampler	: HP7673A	Rack/Vial	: 0/53
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 07:46:16	Cycle	: 53

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_053.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_053.rst
Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150617\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_053.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_053.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_053.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617_SOM_AROS_F9M15_F9K00_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	48271	0.04232973	1	10	0.03043	0.986	1.6431	13.91053	19.72	70.5
4.62	AR1016-1	548	0.02194954	1	10	0.03043	0.986	32.8623	7.21313	0.00	------
5.37	AR1016-2	393	5.6676e-03	1	10	0.03043	0.986	32.8623	1.86250	0.00	------
5.50	AR1016-3	0	0.00000000	1	10	0.03043	0.986	---------	0.00000	--------	------
7.04	AR1260-1	0	0.00000000	1	10	0.03043	0.986	---------	0.00000	--------	------
7.17	AR1260-2	329	8.4779e-03	1	10	0.03043	0.986	32.8623	2.78604	0.00	------
7.54	AR1260-3	0	0.00000000	1	10	0.03043	0.986	---------	0.00000	--------	------
9.51	Decachlorobiphenyl	37458	0.12616319	1	10	0.03043	0.986	3.2862	41.46013	39.43	105.1

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M94

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725016

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 20150617A054,20150617B054

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	37.	U
11104-28-2	Aroclor-1221	37.	U
11141-16-5	Aroclor-1232	37.	U
53469-21-9	Aroclor-1242	37.	U
12672-29-6	Aroclor-1248	37.	U
11097-69-1	Aroclor-1254	37.	U
11096-82-5	Aroclor-1260	37.	U
37324-23-5	Aroclor-1262	37.	U
11100-14-4	Aroclor-1268	37.	U

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:09:22
Operator	: borges	Sample Name	: 1515725016
Sample Number	: 54	Study	: F9M94
AutoSampler	: HP7673A	Rack/Vial	: 0/54
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 07:46:16	Cycle	: 53

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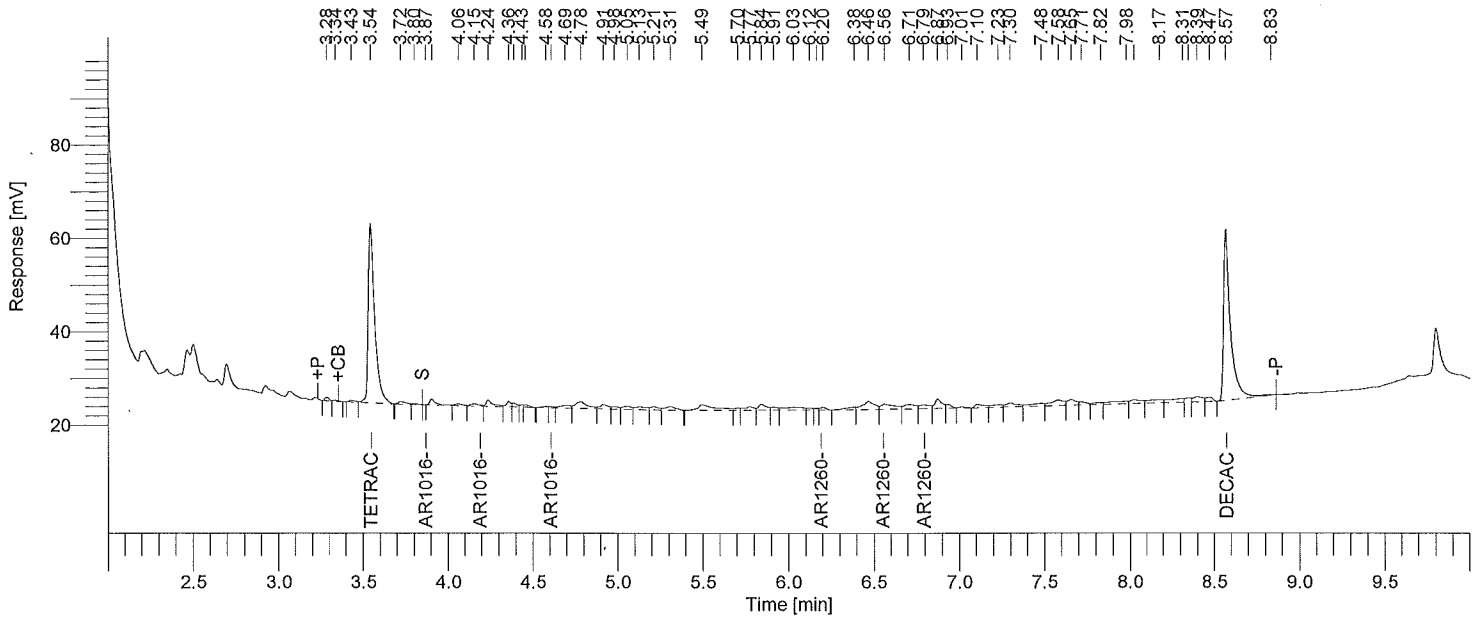
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_054.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_054.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617_SOM_AROS_F9M15_F9K00_A.seq



Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.54	Tetrachloro-m-xylene	99375	0.04641840	1	10	0.03005	0.998	1.6639	15.44706	19.97	77.4
3.87	AR1016-1	53	1.1889e-03	1	10	0.03005	0.998	33.2779	0.39564	0.00	------
4.15	AR1016-2	1753	0.02039798	1	10	0.03005	0.998	33.2779	6.78801	0.00	------
4.61	AR1016-3	562	3.5303e-03	1	10	0.03005	0.998	33.2779	1.17481	0.00	------
6.20	AR1260-1	1454	0.01646781	1	10	0.03005	0.998	33.2779	5.48014	0.00	------
6.56	AR1260-2	6498	0.12514033	1	10	0.03005	0.998	33.2779	41.64404	0.00	------
6.79	AR1260-3	3503	0.06218866	1	10	0.03005	0.998	33.2779	20.69506	0.00	------
8.57	Decachlorobiphenyl	99321	0.09857915	1	10	0.03005	0.998	3.3278	32.80504	39.93	82.1

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:10:30
Operator	: borges	Sample Name	: 1515725016
Sample Number	: 54	Study	: F9M94
AutoSampler	: HP7673A	Rack/Vial	: 0/54
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 08:02:18	Cycle	: 54

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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_054.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_054.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
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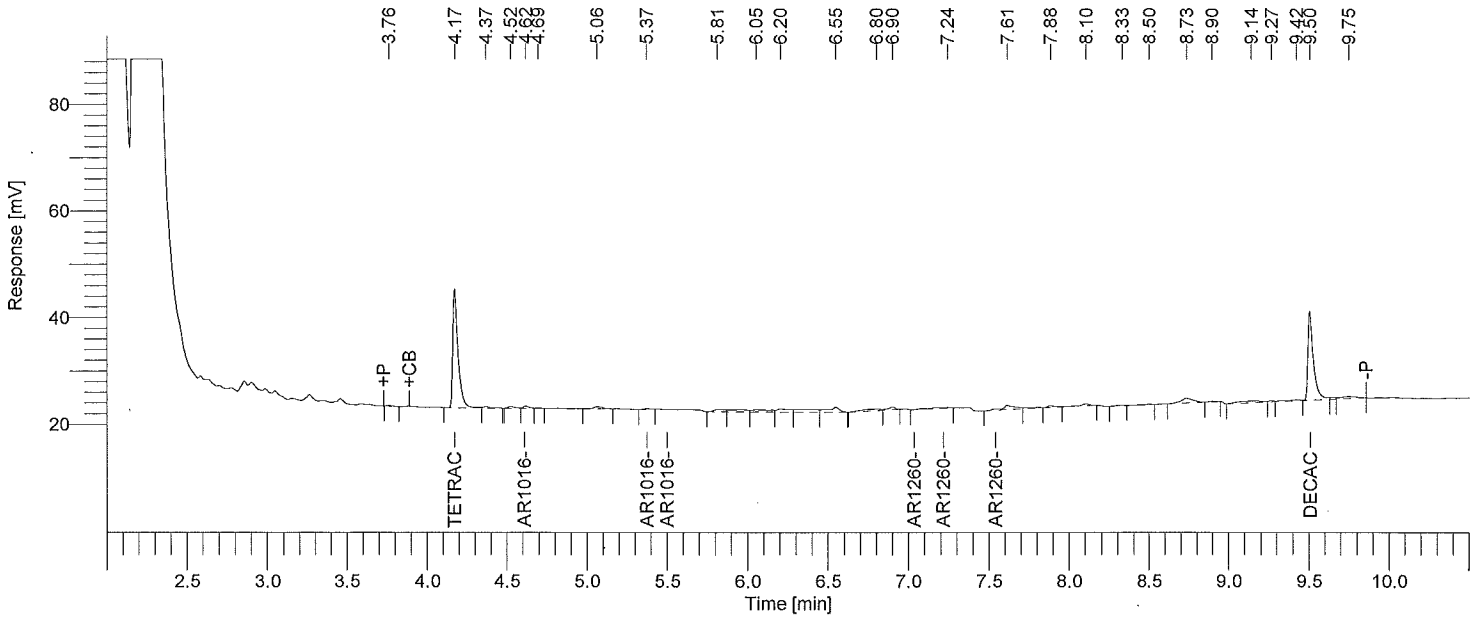

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	51062	0.04477703	1	10	0.03005	0.998	1.6639	14.90084	19.97	74.6
4.62	AR1016-1	903	0.03615152	1	10	0.03005	0.998	33.2779	12.03046	0.00	------
5.37	AR1016-2	370	5.3373e-03	1	10	0.03005	0.998	33.2779	1.77614	0.00	------
5.50	AR1016-3	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
7.04	AR1260-1	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
7.24	AR1260-2	1707	0.04403203	1	10	0.03005	0.998	33.2779	14.65292	0.00	------
7.54	AR1260-3	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
9.50	Decachlorobiphenyl	39650	0.13354839	1	10	0.03005	0.998	3.3278	44.44206	39.93	111.3

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M95

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725017

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 20150617A055,20150617B055

% Moisture: 8.0 Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	36.	U
11104-28-2	Aroclor-1221	36.	U
11141-16-5	Aroclor-1232	36.	U
53469-21-9	Aroclor-1242	36.	U
12672-29-6	Aroclor-1248	36.	U
11097-69-1	Aroclor-1254	36.	U
11096-82-5	Aroclor-1260	36.	U
37324-23-5	Aroclor-1262	36.	U
11100-14-4	Aroclor-1268	36.	U

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:09:24
Operator	: borges	Sample Name	: 1515725017
Sample Number	: 55	Study	: F9M95
AutoSampler	: HP7673A	Rack/Vial	: 0/55
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 08:02:18	Cycle	: 54

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_055.raw
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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
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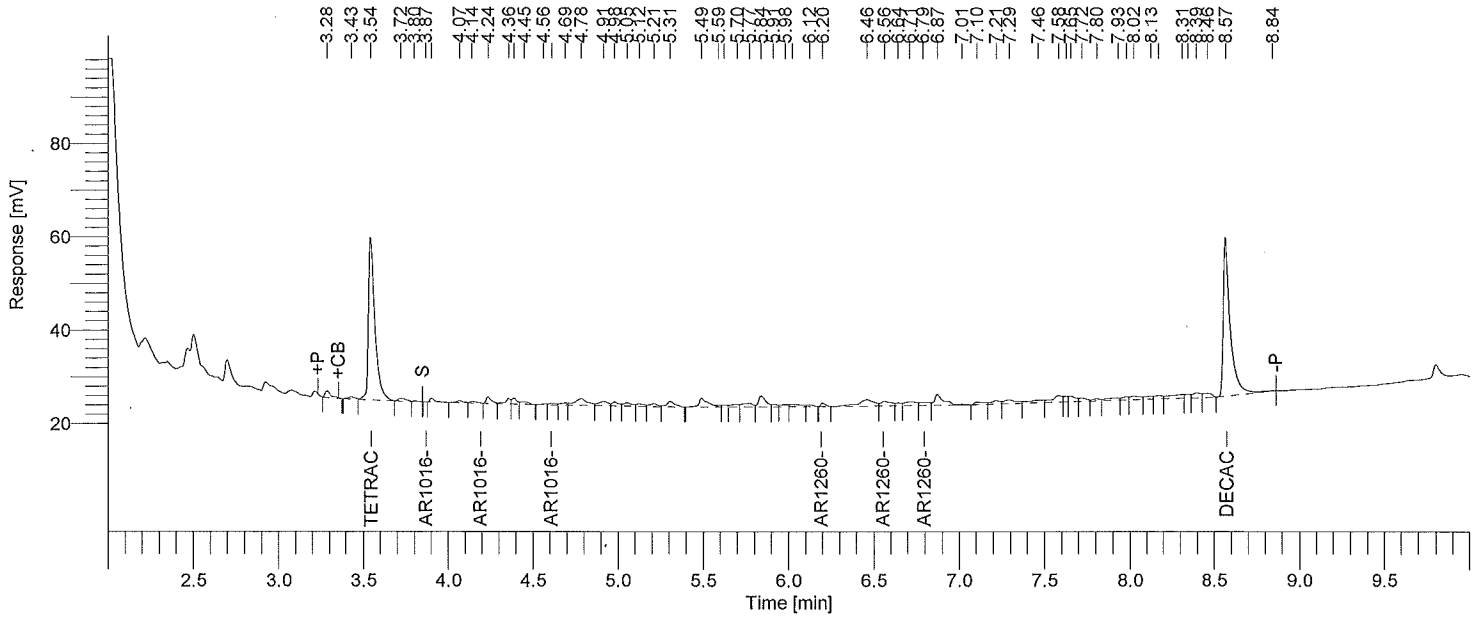

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.54	Tetrachloro-m-xylene	92559	0.04323468	1	10	0.03018	0.994	1.6567	14.32561	19.88	72.1
3.87	AR1016-1	53	1.1821e-03	1	10	0.03018	0.994	33.1345	0.39168	0.00	------
4.24	AR1016-2	3154	0.03669112	1	10	0.03018	0.994	33.1345	12.15743	0.00	------
4.61	AR1016-3	1057	6.6474e-03	1	10	0.03018	0.994	33.1345	2.20258	0.00	------
6.20	AR1260-1	1364	0.01544184	1	10	0.03018	0.994	33.1345	5.11658	0.00	------
6.56	AR1260-2	4310	0.08299449	1	10	0.03018	0.994	33.1345	27.49983	0.00	------
6.79	AR1260-3	2703	0.04799167	1	10	0.03018	0.994	33.1345	15.90181	0.00	------
8.57	Decachlorobiphenyl	92330	0.09163994	1	10	0.03018	0.994	3.3135	30.36446	39.76	76.4

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:10:31
Operator	: borges	Sample Name	: 1515725017
Sample Number	: 55	Study	: F9M95
AutoSampler	: HP7673A	Rack/Vial	: 0/55
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 08:18:25	Cycle	: 55

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_055.raw
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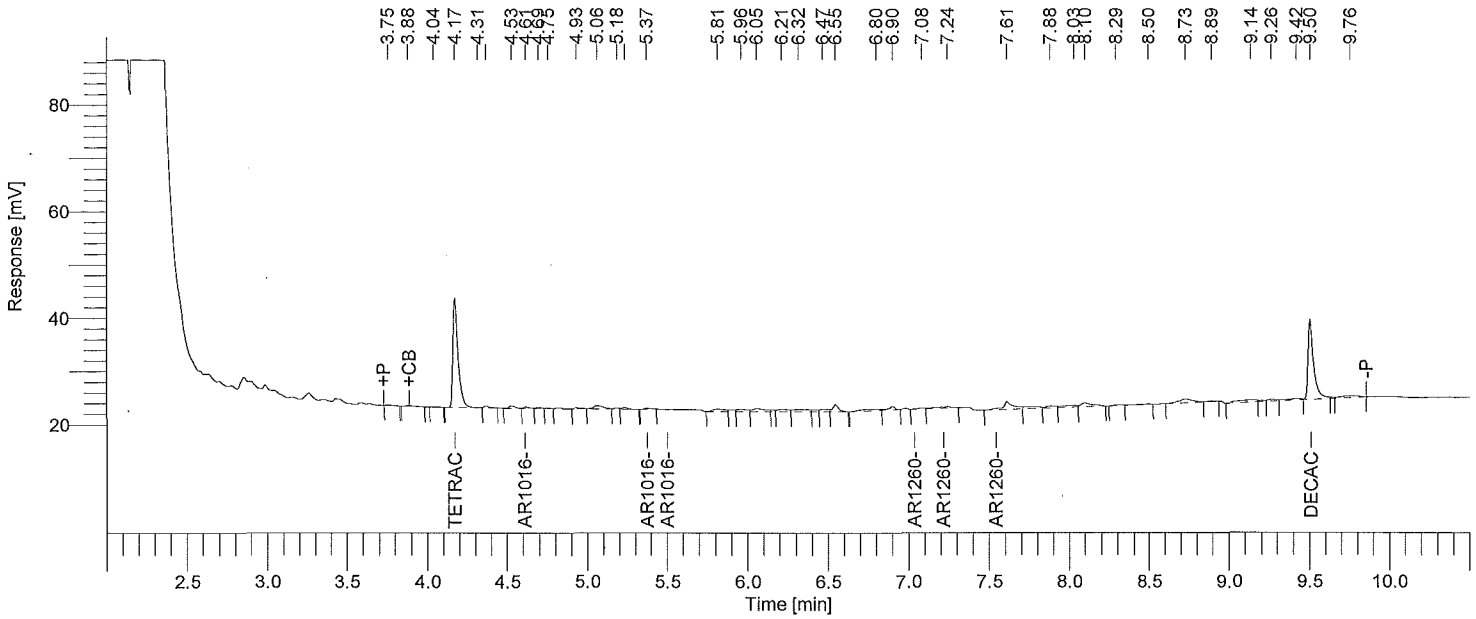
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617_SOM_AROS_F9M15_F9K00_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	46062	0.04039206	1	10	0.03018	0.994	1.6567	13.38372	19.88	67.3
4.61	AR1016-1	712	0.02850188	1	10	0.03018	0.994	33.1345	9.44396	0.00	------
5.37	AR1016-2	490	7.0606e-03	1	10	0.03018	0.994	33.1345	2.33951	0.00	------
5.50	AR1016-3	0	0.00000000	1	10	0.03018	0.994	---------	0.00000	--------	------
7.08	AR1260-1	511	0.01343052	1	10	0.03018	0.994	33.1345	4.45014	0.00	------
7.24	AR1260-2	1763	0.04546950	1	10	0.03018	0.994	33.1345	15.06610	0.00	------
7.54	AR1260-3	0	0.00000000	1	10	0.03018	0.994	---------	0.00000	--------	------
9.50	Decachlorobiphenyl	35469	0.11946571	1	10	0.03018	0.994	3.3135	39.58440	39.76	99.6

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M96

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725018

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 20150617A056,20150617B056

% Moisture: 20. Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	41.	U
11104-28-2	Aroclor-1221	41.	U
11141-16-5	Aroclor-1232	41.	U
53469-21-9	Aroclor-1242	41.	U
12672-29-6	Aroclor-1248	41.	U
11097-69-1	Aroclor-1254	41.	U
11096-82-5	Aroclor-1260	41.	U
37324-23-5	Aroclor-1262	41.	U
11100-14-4	Aroclor-1268	41.	U

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:09:26
Operator	: borges	Sample Name	: 1515725018
Sample Number	: 56	Study	: F9M96
AutoSampler	: HP7673A	Rack/Vial	: 0/56
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 08:18:25	Cycle	: 55

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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
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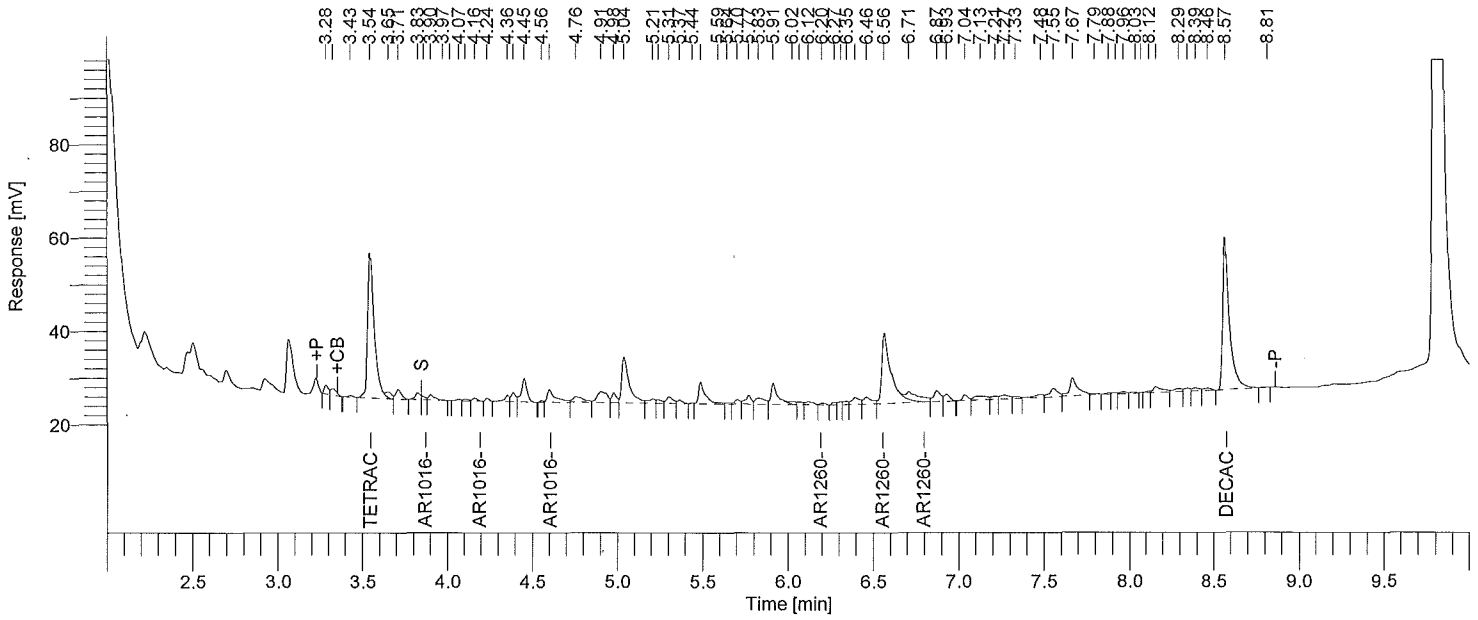

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.54	Tetrachloro-m-xylene	84315	0.03938372	1	10	0.03018	0.994	1.6567	13.04961	19.88	65.6
3.86	AR1016-1	1197	0.02684502	1	10	0.03018	0.994	33.1345	8.89497	0.00	------
4.16	AR1016-2	1331	0.01548053	1	10	0.03018	0.994	33.1345	5.12940	0.00	------
4.60	AR1016-3	9281	0.05834354	1	10	0.03018	0.994	33.1345	19.33186	0.00	------
6.20	AR1260-1	868	9.8240e-03	1	10	0.03018	0.994	33.1345	3.25512	0.00	------
6.56	AR1260-2	57779	1.11270167	1	10	0.03018	0.994	33.1345	368.68843	0.00	------
6.80	AR1260-3	0	0.00000000	1	10	0.03018	0.994	--------	0.00000	--------	------
8.57	Decachlorobiphenyl	87127	0.08647544	1	10	0.03018	0.994	3.3135	28.65323	39.76	72.1

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:10:32
Operator	: borges	Sample Name	: 1515725018
Sample Number	: 56	Study	: F9M96
AutoSampler	: HP7673A	Rack/Vial	: 0/56
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 08:34:32	Cycle	: 56

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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_056.rst
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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
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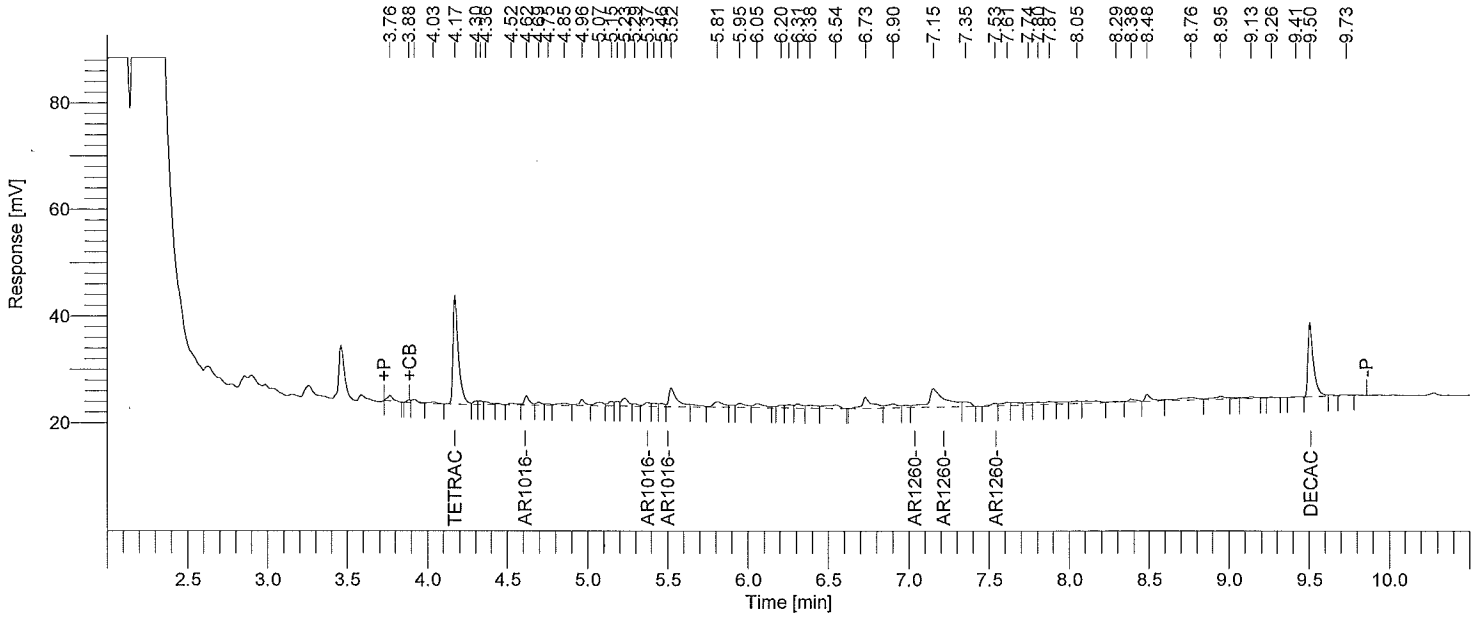

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	46988	0.04120418	1	10	0.03018	0.994	1.6567	13.65281	19.88	68.7
4.62	AR1016-1	3675	0.14710477	1	10	0.03018	0.994	33.1345	48.74247	0.00	------
5.37	AR1016-2	1977	0.02850989	1	10	0.03018	0.994	33.1345	9.44662	0.00	------
5.52	AR1016-3	11927	0.38223548	1	10	0.03018	0.994	33.1345	126.65191	0.00	------
7.04	AR1260-1	0	0.00000000	1	10	0.03018	0.994	---------	0.00000	--------	------
7.21	AR1260-2	0	0.00000000	1	10	0.03018	0.994	---------	0.00000	--------	------
7.53	AR1260-3	1699	0.04226339	1	10	0.03018	0.994	33.1345	14.00377	0.00	------
9.50	Decachlorobiphenyl	31875	0.10736062	1	10	0.03018	0.994	3.3135	35.57343	39.76	89.5

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M97

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725019

Sample wt/vol: 30.4 (g/mL) g Lab File ID: 20150617A057,20150617B057

% Moisture: 20. Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	41.	U
11104-28-2	Aroclor-1221	41.	U
11141-16-5	Aroclor-1232	41.	U
53469-21-9	Aroclor-1242	41.	U
12672-29-6	Aroclor-1248	41.	U
11097-69-1	Aroclor-1254	41.	U
11096-82-5	Aroclor-1260	41.	U
37324-23-5	Aroclor-1262	41.	U
11100-14-4	Aroclor-1268	41.	U

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:09:28
Operator	: borges	Sample Name	: 1515725019
Sample Number	: 57	Study	: F9M97
AutoSampler	: HP7673A	Rack/Vial	: 0/57
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 08:34:32	Cycle	: 56

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_057.raw
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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_057.rst
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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
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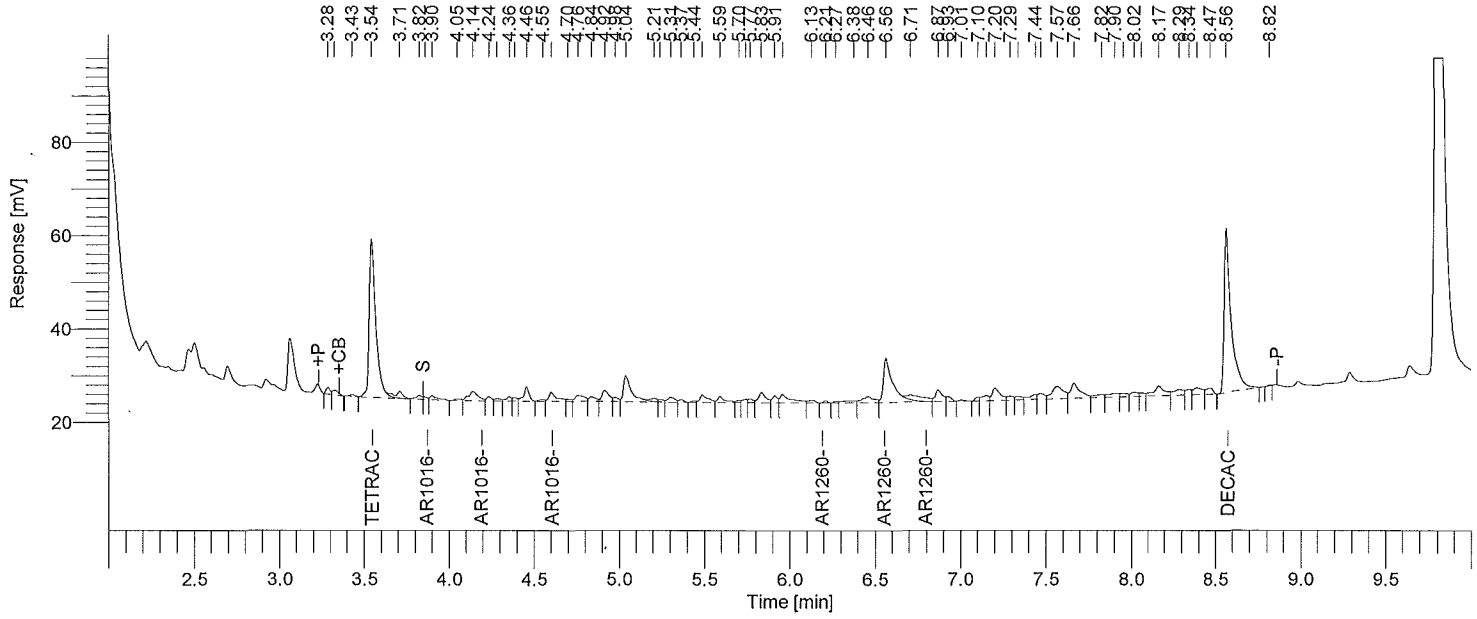

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.54	Tetrachloro-m-xylene	91379	0.04268341	1	10	0.03040	0.987	1.6447	14.04059	19.74	71.1
3.86	AR1016-1	841	0.01886851	1	10	0.03040	0.987	32.8947	6.20675	0.00	------
4.24	AR1016-2	1658	0.01929558	1	10	0.03040	0.987	32.8947	6.34723	0.00	------
4.60	AR1016-3	5917	0.03719241	1	10	0.03040	0.987	32.8947	12.23434	0.00	------
6.21	AR1260-1	906	0.01025407	1	10	0.03040	0.987	32.8947	3.37305	0.00	------
6.56	AR1260-2	38157	0.73482333	1	10	0.03040	0.987	32.8947	241.71820	0.00	------
6.80	AR1260-3	0	0.00000000	1	10	0.03040	0.987	--------	0.00000	--------	------
8.56	Decachlorobiphenyl	99330	0.09858738	1	10	0.03040	0.987	3.2895	32.43006	39.47	82.2

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:10:34
Operator	: borges	Sample Name	: 1515725019
Sample Number	: 57	Study	: F9M97
AutoSampler	: HP7673A	Rack/Vial	: 0/57
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 08:50:42	Cycle	: 57

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Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150617\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_057.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_057.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_057.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
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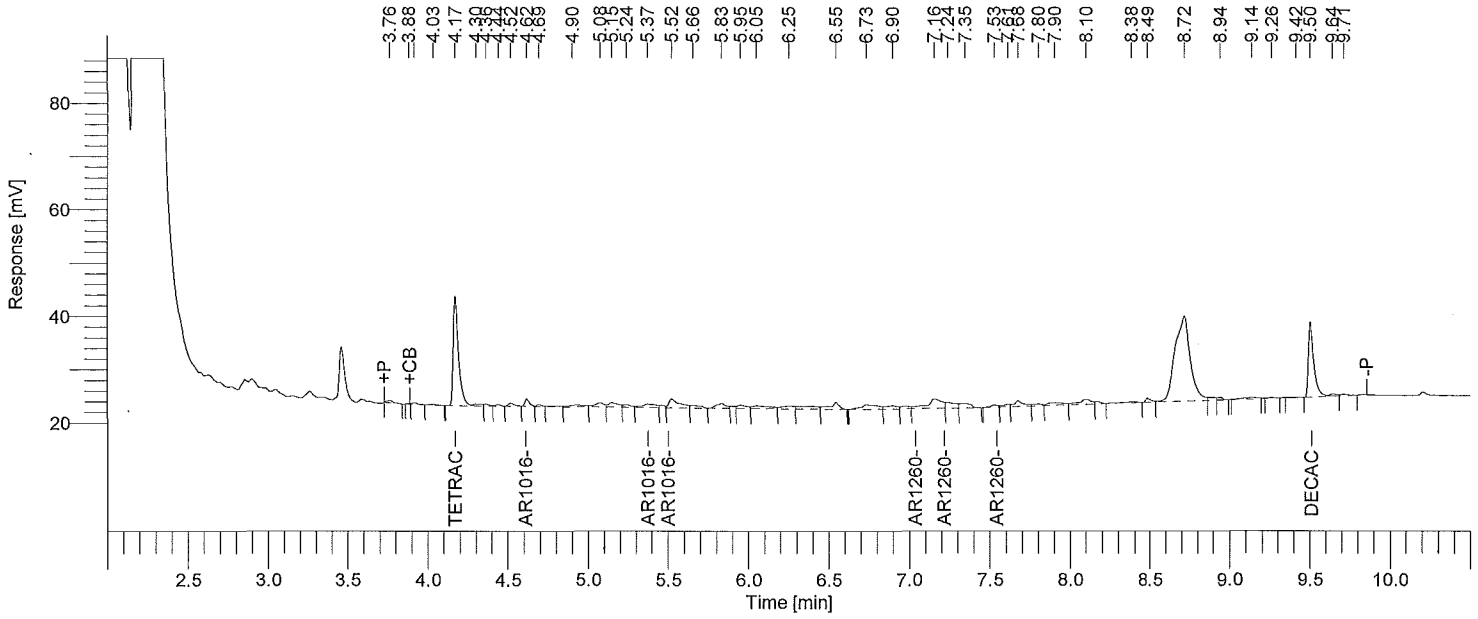

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	47130	0.04132851	1	10	0.03040	0.987	1.6447	13.59490	19.74	68.9
4.62	AR1016-1	2867	0.11473389	1	10	0.03040	0.987	32.8947	37.74141	0.00	------
5.37	AR1016-2	3928	0.05663585	1	10	0.03040	0.987	32.8947	18.63021	0.00	------
5.52	AR1016-3	7626	0.24440184	1	10	0.03040	0.987	32.8947	80.39534	0.00	------
7.04	AR1260-1	0	0.00000000	1	10	0.03040	0.987	--------	0.00000	--------	------
7.24	AR1260-2	4477	0.11546634	1	10	0.03040	0.987	32.8947	37.98235	0.00	------
7.53	AR1260-3	1429	0.03554691	1	10	0.03040	0.987	32.8947	11.69306	0.00	------
9.50	Decachlorobiphenyl	32645	0.10995208	1	10	0.03040	0.987	3.2895	36.16845	39.47	91.6

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M98

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725020

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20150617A058,20150617B058

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	39.	U
11104-28-2	Aroclor-1221	39.	U
11141-16-5	Aroclor-1232	39.	U
53469-21-9	Aroclor-1242	39.	U
12672-29-6	Aroclor-1248	39.	U
11097-69-1	Aroclor-1254	39.	U
11096-82-5	Aroclor-1260	39.	U
37324-23-5	Aroclor-1262	39.	U
11100-14-4	Aroclor-1268	39.	U

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:09:30
Operator	: borges	Sample Name	: 1515725020
Sample Number	: 58	Study	: F9M98
AutoSampler	: HP7673A	Rack/Vial	: 0/58
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 08:50:42	Cycle	: 57

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_058.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_058.rst
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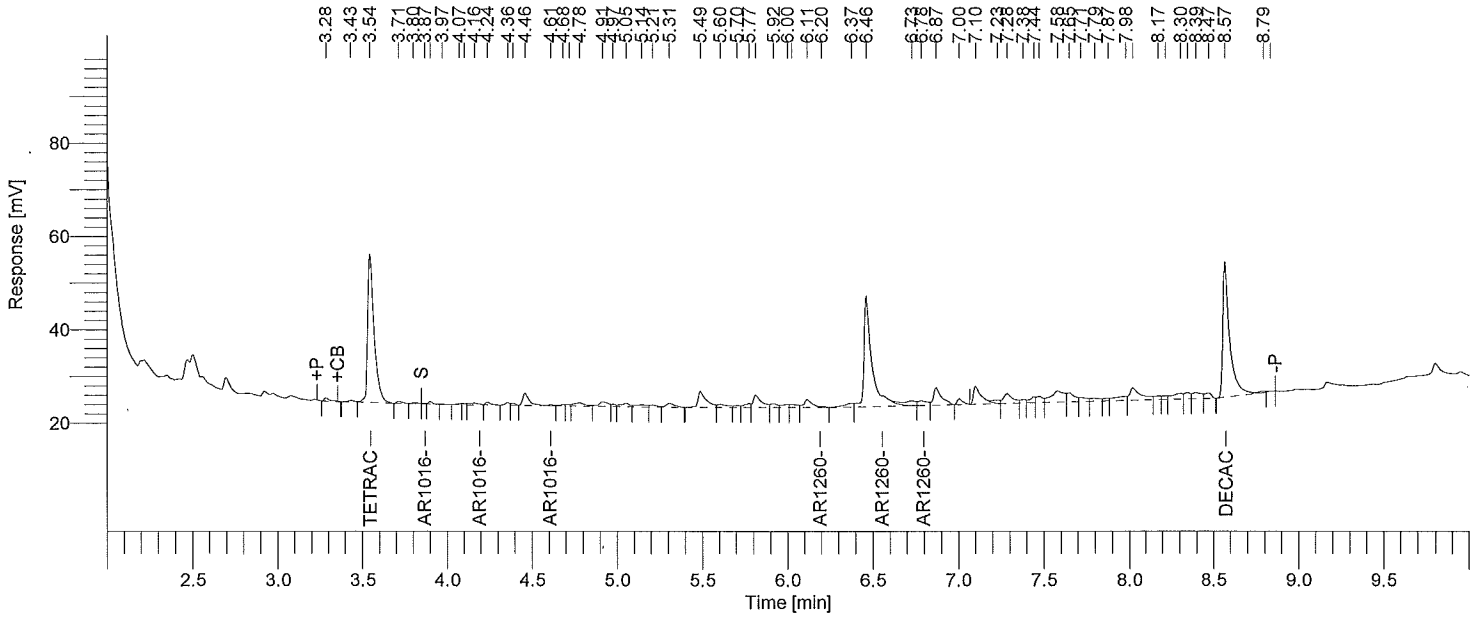
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_058.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_058.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617_SOM_AROS_F9M15_F9K00_A.seq



Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.54	Tetrachloro-m-xylene	83698	0.03909536	1	10	0.03003	0.999	1.6650	13.01877	19.98	65.2
3.87	AR1016-1	275	6.1635e-03	1	10	0.03003	0.999	33.3000	2.05246	0.00	------
4.16	AR1016-2	1734	0.02018008	1	10	0.03003	0.999	33.3000	6.71997	0.00	------
4.61	AR1016-3	737	4.6297e-03	1	10	0.03003	0.999	33.3000	1.54168	0.00	------
6.20	AR1260-1	416	4.7076e-03	1	10	0.03003	0.999	33.3000	1.56763	0.00	------
6.55	AR1260-2	0	0.00000000	1	10	0.03003	0.999	--------	0.00000	--------	------
6.78	AR1260-3	3950	0.07013524	1	10	0.03003	0.999	33.3000	23.35506	0.00	------
8.57	Decachlorobiphenyl	80801	0.08019745	1	10	0.03003	0.999	3.3300	26.70578	39.96	66.8

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:10:35
Operator	: borges	Sample Name	: 1515725020
Sample Number	: 58	Study	: F9M98
AutoSampler	: HP7673A	Rack/Vial	: 0/58
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 09:07:02	Cycle	: 58

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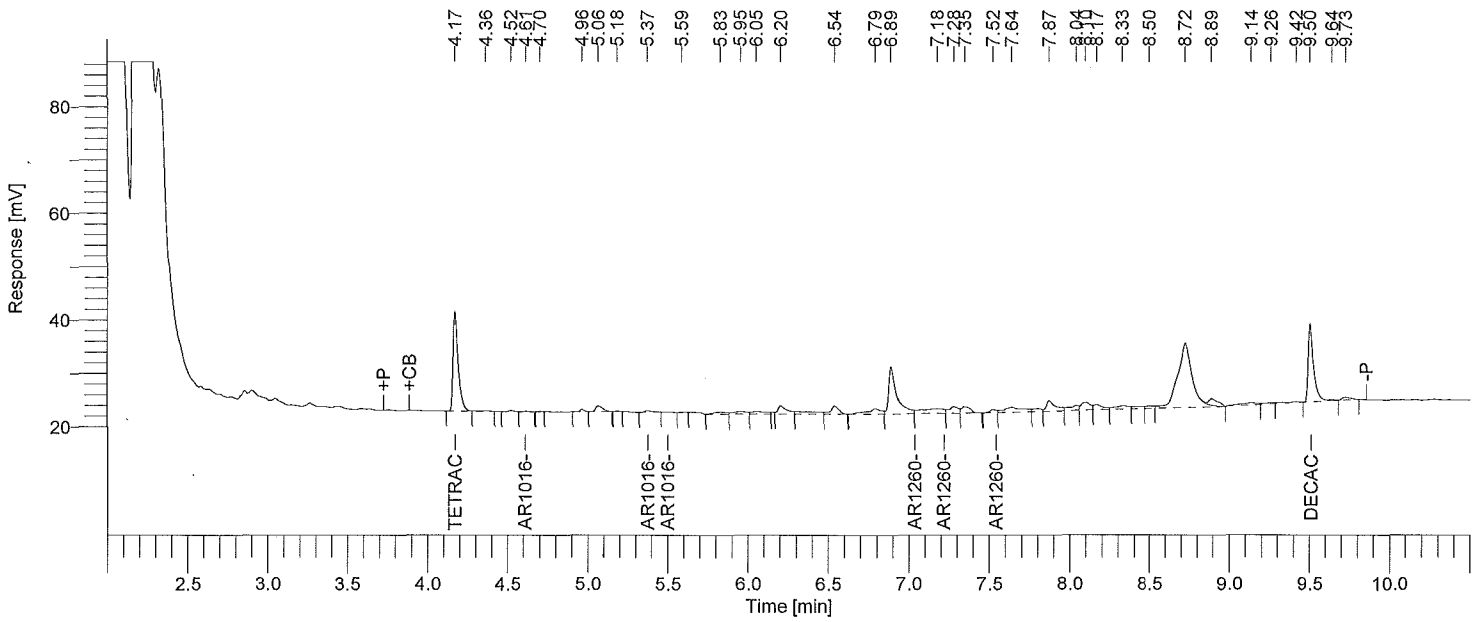
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_058.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_058.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617_SOM_AROS_F9M15_F9K00_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	41680	0.03654982	1	10	0.03003	0.999	1.6650	12.17110	19.98	60.9
4.61	AR1016-1	245	9.7898e-03	1	10	0.03003	0.999	33.3000	3.26002	0.00	------
5.37	AR1016-2	847	0.01221661	1	10	0.03003	0.999	33.3000	4.06814	0.00	------
5.50	AR1016-3	0	0.00000000	1	10	0.03003	0.999	--------	0.00000	-------	------
7.04	AR1260-1	0	0.00000000	1	10	0.03003	0.999	--------	0.00000	-------	------
7.18	AR1260-2	8172	0.21075075	1	10	0.03003	0.999	33.3000	70.18007	0.00	------
7.52	AR1260-3	1648	0.04101284	1	10	0.03003	0.999	33.3000	13.65729	0.00	------
9.50	Decachlorobiphenyl	34027	0.11460672	1	10	0.03003	0.999	3.3300	38.16407	39.96	95.5

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M99

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725021

Sample wt/vol: 30.4 (g/mL) g Lab File ID: 20150617A059,20150617B059

% Moisture: 11. Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	37.	U
11104-28-2	Aroclor-1221	37.	U
11141-16-5	Aroclor-1232	37.	U
53469-21-9	Aroclor-1242	37.	U
12672-29-6	Aroclor-1248	37.	U
11097-69-1	Aroclor-1254	37.	U
11096-82-5	Aroclor-1260	37.	U
37324-23-5	Aroclor-1262	37.	U
11100-14-4	Aroclor-1268	37.	U

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:09:31
Operator	: borges	Sample Name	: 1515725021
Sample Number	: 59	Study	: F9M99
AutoSampler	: HP7673A	Rack/Vial	: 0/59
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 09:07:02	Cycle	: 58

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_059.raw
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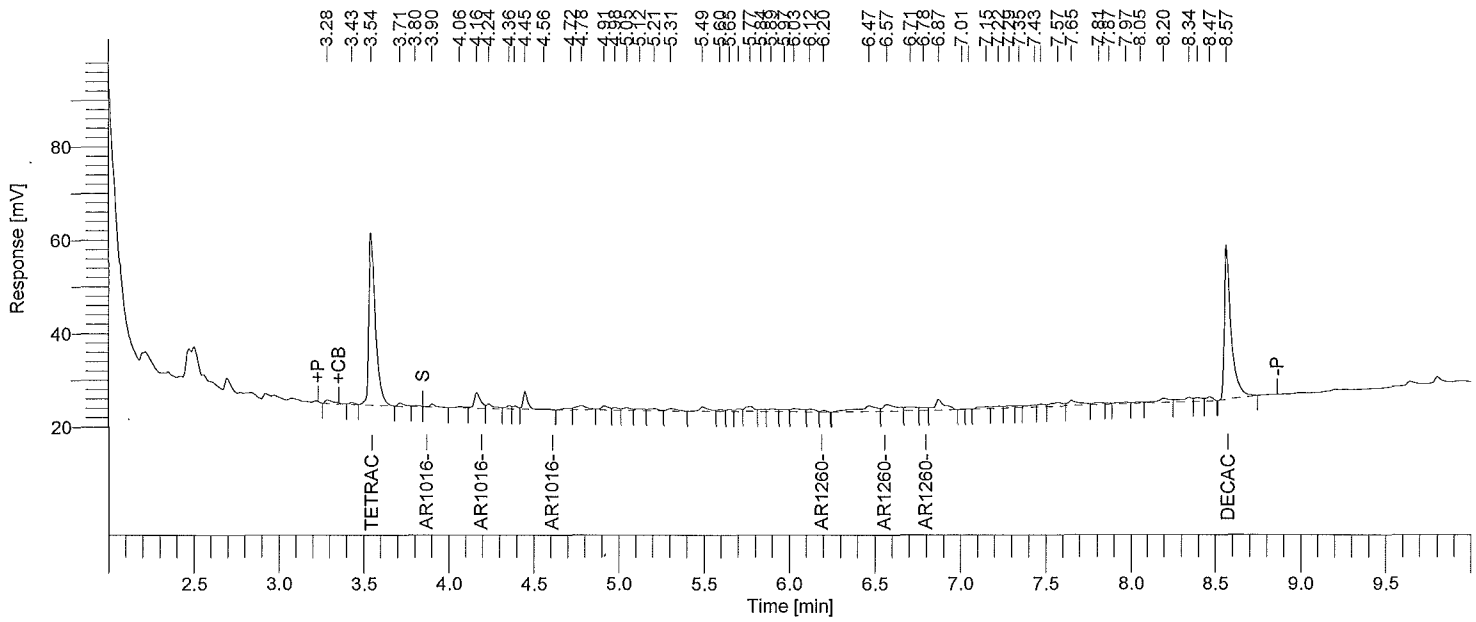


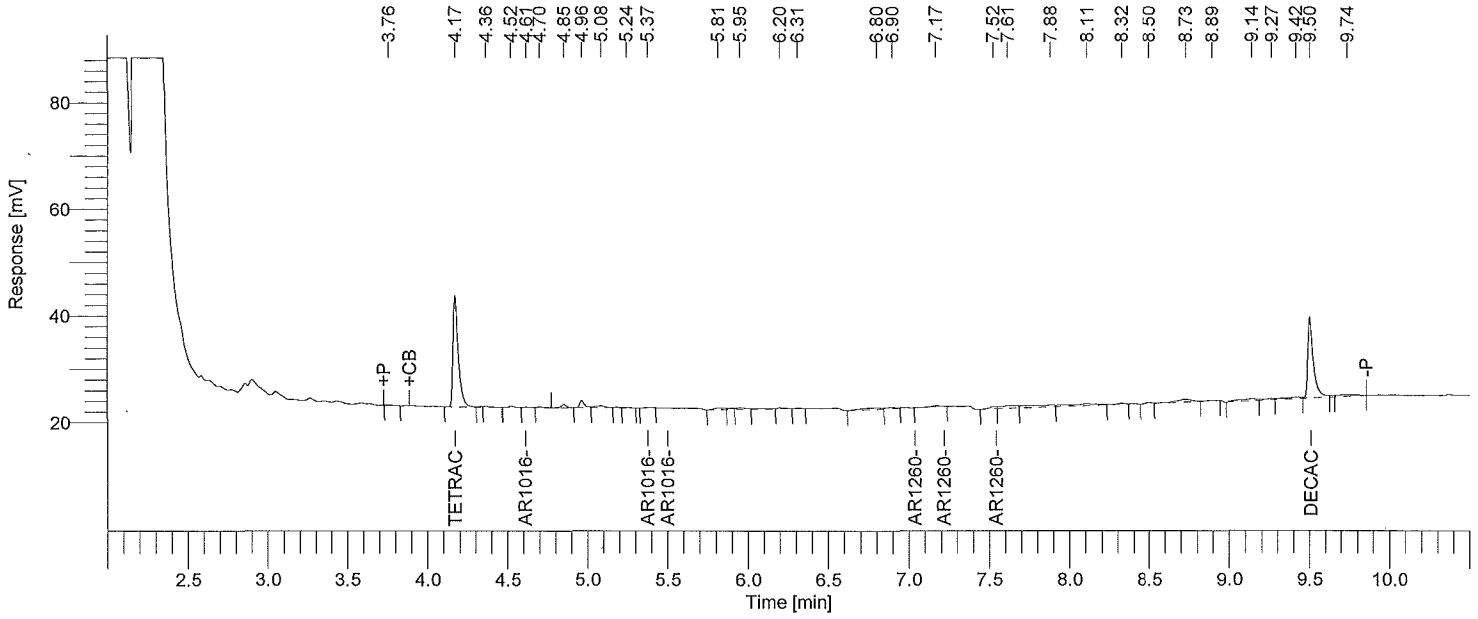
Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.54	Tetrachloro-m-xylene	98946	0.04621783	1	10	0.03035	0.988	1.6474	15.22828	19.77	77.0
3.90	AR1016-1	1578	0.03537603	1	10	0.03035	0.988	32.9489	11.65602	0.00	------
4.16	AR1016-2	8778	0.10213500	1	10	0.03035	0.988	32.9489	33.65239	0.00	------
4.56	AR1016-3	758	4.7627e-03	1	10	0.03035	0.988	32.9489	1.56927	0.00	------
6.20	AR1260-1	845	9.5650e-03	1	10	0.03035	0.988	32.9489	3.15157	0.00	------
6.57	AR1260-2	8120	0.15637975	1	10	0.03035	0.988	32.9489	51.52545	0.00	------
6.78	AR1260-3	2024	0.03594292	1	10	0.03035	0.988	32.9489	11.84281	0.00	------
8.57	Decachlorobiphenyl	88504	0.08784243	1	10	0.03035	0.988	3.2949	28.94314	39.54	73.2

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:10:37
Operator	: borges	Sample Name	: 1515725021
Sample Number	: 59	Study	: F9M99
AutoSampler	: HP7673A	Rack/Vial	: 0/59
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 09:23:14	Cycle	: 59

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_059.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_059.rst
Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150617\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_059.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_059.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_059.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617_SOM_AROS_F9M15_F9K00_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	47774	0.04189333	1	10	0.03035	0.988	1.6474	13.80340	19.77	69.8
4.61	AR1016-1	276	0.01103499	1	10	0.03035	0.988	32.9489	3.63591	0.00	------
5.37	AR1016-2	329	4.7386e-03	1	10	0.03035	0.988	32.9489	1.56131	0.00	------
5.50	AR1016-3	0	0.00000000	1	10	0.03035	0.988	---------	0.00000	--------	------
7.04	AR1260-1	0	0.00000000	1	10	0.03035	0.988	---------	0.00000	--------	------
7.17	AR1260-2	812	0.02093803	1	10	0.03035	0.988	32.9489	6.89886	0.00	------
7.52	AR1260-3	1235	0.03073407	1	10	0.03035	0.988	32.9489	10.12655	0.00	------
9.50	Decachlorobiphenyl	36390	0.12256811	1	10	0.03035	0.988	3.2949	40.38488	39.54	102.1

One surrogate 30-150% for field samples, both for method blank.

6N - FORM VI ARO-1

AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9K00

Instrument ID: GCE20

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16

GC Column: RTXCLP ID: 0.32 (mm) Dates(s) Analyzed: 06/17/2015 06/17/2015

COMPOUND	PEAK*	RT OF STANDARDS					$\overline{RT}$	RT WINDOW**	
		CS1	CS2	CS3	CS4	CS5		FROM	TO
AR1016	1	3.87	3.87	3.87	3.87	3.87	3.87	3.80	3.94
	2	4.19	4.19	4.19	4.19	4.19	4.19	4.12	4.26
	3	4.61	4.60	4.60	4.60	4.60	4.60	4.53	4.67
	4								
	5								
TCX		3.55	3.54	3.54	3.54	3.54	3.54	3.49	3.59
DCB		8.57	8.57	8.57	8.57	8.57	8.57	8.47	8.67
AR1260	1	6.19	6.19	6.19	6.19	6.19	6.19	6.12	6.26
	2	6.55	6.55	6.55	6.55	6.55	6.55	6.48	6.62
	3	6.79	6.79	6.79	6.79	6.79	6.79	6.72	6.86
	4								
	5								
TCX									
DCB									
AR_____	1								
	2								
	3								
	4								
	5								
TCX									
DCB									

* At least three peaks for each column are required for identification of Aroclors.

** Retention Time windows are ± 0.07 minutes for each Aroclor peak; ± 0.05 minutes for TCX; and ± 0.10 minutes for DCB.

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6N - FORM VI ARO-1

AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: GCE20

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16

GC Column: RTXCLP2 ID: 0.32 (mm) Dates(s) Analyzed: 06/17/2015 06/17/2015

COMPOUND	PEAK*	RT OF STANDARDS					$\overline{RT}$	RT WINDOW**	
		CS1	CS2	CS3	CS4	CS5		FROM	TO
AR1016	1	4.61	4.61	4.61	4.60	4.60	4.61	4.54	4.68
	2	5.38	5.37	5.37	5.37	5.37	5.37	5.30	5.44
	3	5.50	5.50	5.50	5.50	5.49	5.50	5.43	5.57
	4								
	5								
TCX		4.17	4.17	4.17	4.17	4.17	4.17	4.12	4.22
DCB		9.51	9.51	9.51	9.51	9.50	9.51	9.41	9.61
AR1260	1	7.04	7.04	7.03	7.03	7.03	7.03	6.96	7.10
	2	7.21	7.22	7.21	7.21	7.21	7.21	7.14	7.28
	3	7.54	7.54	7.54	7.54	7.54	7.54	7.47	7.61
	4								
	5								
TCX									
DCB									
AR_____	1								
	2								
	3								
	4								
	5								
TCX									
DCB									

* At least three peaks for each column are required for identification of Aroclors.

** Retention Time windows are ± 0.07 minutes for each Aroclor peak; ± 0.05 minutes for TCX; and ± 0.10 minutes for DCB.

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6P - FORM VI ARO-2
AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: GCE20

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16

GC Column: RTXCLP ID: 0.32 (mm) Dates(s) Analyzed: 06/17/2015 06/17/2015

COMPOUND	PEAK[1]	CALIBRATION FACTORS (CFs)					%RSD
		CS1	CS2	CS3	CS4	CS5	
AR1016	1	26000	22200	22900	21300	19100	11.3
	2	52300	43800	43400	40100	35400	14.4
	3	89100	78600	80100	78200	71700	7.8
	4						
	5						
TCX		1130000	1000000	1120000	1090000	1010000	5.8
DCB		604000	496000	494000	481000	444000	11.9
AR1260	1	52200	45100	43300	42200	38200	11.6
	2	27300	25300	25600	26600	25000	3.7
	3	33200	28300	27600	27100	24600	11.2
	4						
	5						
TCX							
DCB							
AR_____	1						
	2						
	3						
	4						
	5						
TCX							
DCB							

[1]At least three peaks for each column are required for identification of Aroclors.

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6P - FORM VI ARO-2
AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: GCE20

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16

GC Column: RTXCLP2 ID: 0.32 (mm) Dates(s) Analyzed: 06/17/2015 06/17/2015

COMPOUND	PEAK[1]	CALIBRATION FACTORS (CFs)					%RSD
		CS1	CS2	CS3	CS4	CS5	
AR1016	1	14300	12100	12300	12500	11200	9.2
	2	37100	27400	35500	38200	35200	12.3
	3	18200	10400	16300	17400	15700	19.6
	4						
	5						
TCX		540000	517000	579000	623000	591000	7.4
DCB		150000	129000	164000	156000	142000	9.1
AR1260	1	21300	18300	18900	19400	17300	7.8
	2	21200	18400	19400	20000	17900	6.7
	3	21000	17700	21000	21200	19600	7.4
	4						
	5						
TCX							
DCB							
AR_____	1						
	2						
	3						
	4						
	5						
TCX							
DCB							

[1]At least three peaks for each column are required for identification of Aroclors.

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6Q - FORM VI ARO-3
AROCLORS INITIAL CALIBRATION (SINGLE POINT)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: GCE20 Dates(s) Analyzed: 06/17/2015 06/17/2015

GC Column: RTXCLP ID: 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK[1]	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor 1221	0.800	1	3.06	2.99	3.13	11200
		2	3.69	3.62	3.76	12900
		3	3.86	3.79	3.93	32600
		4				
		5				
Aroclor 1232	0.800	1	4.19	4.12	4.26	20600
		2	4.61	4.54	4.68	35300
		3	4.73	4.66	4.80	12700
		4				
		5				
Aroclor 1242	0.800	1	3.87	3.80	3.94	20000
		2	4.19	4.12	4.26	37900
		3	4.73	4.66	4.80	24800
		4				
		5				
Aroclor 1248	0.800	1	4.60	4.53	4.67	48400
		2	5.09	5.02	5.16	40300
		3	6.02	5.95	6.09	20700
		4				
		5				
Aroclor 1254	0.800	1	6.02	5.95	6.09	53000
		2	6.44	6.37	6.51	34000
		3	6.70	6.63	6.77	50400
		4				
		5				
Aroclor 1262	0.800	1	6.19	6.12	6.26	35100
		2	6.44	6.37	6.51	27800
		3	6.79	6.72	6.86	34500
		4				
		5				
Aroclor 1268	0.800	1	6.79	6.72	6.86	20800
		2	7.01	6.94	7.08	23600
		3	7.81	7.74	7.88	58600
		4				
		5				

[1]At least three peaks for each column are required for identification of multicomponent analytes.

6Q - FORM VI ARO-3
AROCLORS INITIAL CALIBRATION (SINGLE POINT)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Instrument ID: GCE20 Dates(s) Analyzed: 06/17/2015 06/17/2015

GC Column: RTXCLP2 ID: 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK[1]	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor 1221	0.800	1	3.75	3.68	3.82	6600
		2	4.42	4.35	4.49	6050
		3	4.61	4.54	4.68	16600
		4				
		5				
Aroclor 1232	0.800	1	4.61	4.54	4.68	14200
		2	5.37	5.30	5.44	14900
		3	5.50	5.43	5.57	7230
		4				
		5				
Aroclor 1242	0.800	1	4.61	4.54	4.68	11200
		2	5.37	5.30	5.44	31000
		3	5.50	5.43	5.57	14800
		4				
		5				
Aroclor 1248	0.800	1	5.37	5.30	5.44	19400
		2	6.02	5.95	6.09	19500
		3	6.86	6.79	6.93	9610
		4				
		5				
Aroclor 1254	0.800	1	6.28	6.21	6.35	22900
		2	6.44	6.37	6.51	15900
		3	6.76	6.69	6.83	11300
		4				
		5				
Aroclor 1262	0.800	1	7.03	6.96	7.10	13200
		2	7.22	7.15	7.29	13300
		3	7.89	7.82	7.96	12300
		4				
		5				
Aroclor 1268	0.800	1	7.62	7.55	7.69	7480
		2	7.89	7.82	7.96	9450
		3	8.71	8.64	8.78	20700
		4				
		5				

[1]At least three peaks for each column are required for identification of multicomponent analytes.

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/17/2015 06/17/2015

EPA Sample No. (AR####3##): AR16603B1 Date Analyzed: 06/17/2015

Lab Sample ID: AR16603B1 Time Analyzed: 21:48

EPA Sample No. (AR####3##): Date Analyzed:

Lab Sample ID: Time Analyzed:

AROCLOR COMPOUND	PEAK	RETENTION	RT WINDOW		$\overline{CF}$	CF	%D
		RT	FROM	TO			
AR1016	1	3.86	3.80	3.94	22300	21800	-2.3
	2	4.19	4.12	4.26	43000	42000	-2.4
	3	4.60	4.53	4.67	79500	77400	-2.7
	4						
	5						
TCX		3.54	3.49	3.59	1070000	1070000	0.3
DCB		8.57	8.47	8.67	504000	527000	4.6
AR1260	1	6.18	6.12	6.26	44200	42400	-4.0
	2	6.55	6.48	6.62	26000	25300	-2.5
	3	6.79	6.72	6.86	28200	27100	-3.8
	4						
	5						
TCX							
DCB							
AR_____	1						
	2						
	3						
	4						
	5						
TCX							
DCB							

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/17/2015 06/17/2015

EPA Sample No. (AR####3##): AR16603C1 Date Analyzed: 06/18/2015

Lab Sample ID: AR16603C1 Time Analyzed: 09:39

EPA Sample No. (AR####3##): Date Analyzed:

Lab Sample ID: Time Analyzed:

AROCLOR COMPOUND	PEAK	RETENTION	RT WINDOW		$\overline{CF}$	CF	%D
		RT	FROM	TO			
AR1016	1	3.86	3.80	3.94	22300	20800	-6.8
	2	4.19	4.12	4.26	43000	41900	-2.4
	3	4.60	4.53	4.67	79500	78000	-1.9
	4						
	5						
TCX		3.54	3.49	3.59	1070000	1090000	1.5
DCB		8.57	8.47	8.67	504000	436000	-13.5
AR1260	1	6.18	6.12	6.26	44200	39700	-10.2
	2	6.55	6.48	6.62	26000	22800	-12.3
	3	6.79	6.72	6.86	28200	25400	-9.7
	4						
	5						
TCX							
DCB							
AR_____	1						
	2						
	3						
	4						
	5						
TCX							
DCB							

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/17/2015 06/17/2015

EPA Sample No. (AR####3##): AR16603B2 Date Analyzed: 06/17/2015

Lab Sample ID: AR16603B2 Time Analyzed: 22:04

EPA Sample No. (AR####3##): Date Analyzed:

Lab Sample ID: Time Analyzed:

AROCLOR COMPOUND	PEAK	RETENTION	RT WINDOW		$\overline{CF}$	CF	%D
		RT	FROM	TO			
AR1016	1	4.61	4.54	4.68	12500	12100	-2.8
	2	5.37	5.30	5.44	34700	34200	-1.5
	3	5.50	5.43	5.57	15600	15900	1.8
	4						
	5						
TCX		4.17	4.12	4.22	570000	575000	0.9
DCB		9.51	9.41	9.61	148000	150000	1.2
AR1260	1	7.03	6.96	7.10	19000	17800	-6.6
	2	7.21	7.14	7.28	19400	18100	-6.4
	3	7.54	7.47	7.61	20100	19100	-4.9
	4						
	5						
TCX							
DCB							
AR_____	1						
	2						
	3						
	4						
	5						
TCX							
DCB							

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9K00

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/17/2015 06/17/2015

EPA Sample No. (AR####3##): AR16603C2 Date Analyzed: 06/18/2015

Lab Sample ID: AR16603C2 Time Analyzed: 09:55

EPA Sample No. (AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION	RT WINDOW		$\overline{CF}$	CF	%D
		RT	FROM	TO			
AR1016	1	4.61	4.54	4.68	12500	9430	-24.5
	2	5.37	5.30	5.44	34700	28400	-18.3
	3	5.50	5.43	5.57	15600	13000	-16.8
	4						
	5						
TCX		4.17	4.12	4.22	570000	441000	-22.6
DCB		9.50	9.41	9.61	148000	159000	7.0
AR1260	1	7.03	6.96	7.10	19000	15300	-19.7
	2	7.21	7.14	7.28	19400	16100	-16.9
	3	7.54	7.47	7.61	20100	17800	-11.2
	4						
	5						
TCX							
DCB							
AR_____	1						
	2						
	3						
	4						
	5						
TCX							
DCB							

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/17/2015 06/17/2015

Instrument ID: GCE20

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.54 DCB: 8.57

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	DCB RT	#
01	AR16601A1	20150617A004	06/17/2015	18:17	3.55		8.57	
02	AR16602A1	20150617A005	06/17/2015	18:33	3.54		8.57	
03	AR16603A1	20150617A006	06/17/2015	18:49	3.54		8.57	
04	AR16604A1	20150617A007	06/17/2015	19:05	3.54		8.57	
05	AR16605A1	20150617A008	06/17/2015	19:22	3.54		8.57	
06	AR12213A1	20150617A009	06/17/2015	19:38	3.54		8.57	
07	AR12323A1	20150617A010	06/17/2015	19:54	3.54		8.57	
08	AR12423A1	20150617A011	06/17/2015	20:10	3.54		8.57	
09	AR12483A1	20150617A012	06/17/2015	20:26	3.54		8.57	
10	AR12543A1	20150617A013	06/17/2015	20:43	3.54		8.57	
11	AR12623A1	20150617A014	06/17/2015	20:59	3.54		8.57	
12	AR12683A1	20150617A015	06/17/2015	21:15	3.54		8.57	
13	AIBLKB1	20150617A016	06/17/2015	21:32	3.54		8.57	
14	AR16603B1	20150617A017	06/17/2015	21:48	3.54		8.57	
15	ZZZZZ		06/17/2015	22:04				
16	ZZZZZ		06/17/2015	22:20				
17	ZZZZZ		06/17/2015	22:36				
18	ZZZZZ		06/17/2015	22:53				
19	ZZZZZ		06/17/2015	23:09				
20	ZZZZZ		06/17/2015	23:25				
21	ZZZZZ		06/17/2015	23:41				
22	ZZZZZ		06/17/2015	23:58				
23	ZZZZZ		06/18/2015	00:14				
24	ZZZZZ		06/18/2015	00:30				
25	ZZZZZ		06/18/2015	00:46				
26	ZZZZZ		06/18/2015	01:02				
27	ZZZZZ		06/18/2015	01:18				
28	ZZZZZ		06/18/2015	01:34				
29	ZZZZZ		06/18/2015	01:51				
30	ZZZZZ		06/18/2015	02:07				
31	ZZZZZ		06/18/2015	02:23				
32	ZZZZZ		06/18/2015	02:39				

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/17/2015 06/17/2015

Instrument ID: GCE20

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.54 DCB: 8.57

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	DCB RT	#
01	ZZZZZ		06/18/2015	02:55				
02	ABLKS1	20150617A037	06/18/2015	03:11	3.54		8.57	
03	ALCSS1	20150617A038	06/18/2015	03:28	3.54		8.57	
04	F9K00	20150617A039	06/18/2015	03:44	3.54		8.57	
05	F9M82	20150617A040	06/18/2015	04:00	3.54		8.57	
06	F9M83	20150617A041	06/18/2015	04:16	3.54		8.57	
07	F9M84	20150617A042	06/18/2015	04:32	3.54		8.57	
08	F9M85	20150617A043	06/18/2015	04:48	3.54		8.57	
09	F9M86	20150617A044	06/18/2015	05:05	3.54		8.57	
10	F9M87	20150617A045	06/18/2015	05:21	3.54		8.57	
11	F9M88	20150617A046	06/18/2015	05:37	3.54		8.57	
12	F9M89	20150617A047	06/18/2015	05:53	3.54		8.57	
13	F9M90	20150617A048	06/18/2015	06:09	3.54		8.56	
14	F9M91	20150617A049	06/18/2015	06:25	3.54		8.56	
15	F9M91MS	20150617A050	06/18/2015	06:41	3.54		8.57	
16	F9M91MSD	20150617A051	06/18/2015	06:57	3.54		8.56	
17	F9M92	20150617A052	06/18/2015	07:13	3.54		8.57	
18	F9M93	20150617A053	06/18/2015	07:29	3.54		8.57	
19	F9M94	20150617A054	06/18/2015	07:46	3.54		8.57	
20	F9M95	20150617A055	06/18/2015	08:02	3.54		8.57	
21	F9M96	20150617A056	06/18/2015	08:18	3.54		8.57	
22	F9M97	20150617A057	06/18/2015	08:34	3.54		8.57	
23	F9M98	20150617A058	06/18/2015	08:50	3.54		8.57	
24	F9M99	20150617A059	06/18/2015	09:07	3.54		8.57	
25	AIBLKC1	20150617A060	06/18/2015	09:23	3.54		8.57	
26	AR16603C1	20150617A061	06/18/2015	09:39	3.54		8.57	
27								
28								
29								
30								
31								
32								

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/17/2015 06/17/2015

Instrument ID: GCE20

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.17 DCB: 9.51

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR16601A2	20150617B004	06/17/2015	18:33	4.17	9.51
02	AR16602A2	20150617B005	06/17/2015	18:49	4.17	9.51
03	AR16603A2	20150617B006	06/17/2015	19:05	4.17	9.51
04	AR16604A2	20150617B007	06/17/2015	19:22	4.17	9.51
05	AR16605A2	20150617B008	06/17/2015	19:38	4.17	9.50
06	AR12213A2	20150617B009	06/17/2015	19:54	4.17	9.51
07	AR12323A2	20150617B010	06/17/2015	20:10	4.17	9.51
08	AR12423A2	20150617B011	06/17/2015	20:26	4.17	9.51
09	AR12483A2	20150617B012	06/17/2015	20:43	4.17	9.51
10	AR12543A2	20150617B013	06/17/2015	20:59	4.17	9.51
11	AR12623A2	20150617B014	06/17/2015	21:15	4.17	9.51
12	AR12683A2	20150617B015	06/17/2015	21:32	4.17	9.51
13	AIBLKB2	20150617B016	06/17/2015	21:48	4.17	9.51
14	AR16603B2	20150617B017	06/17/2015	22:04	4.17	9.51
15	ZZZZZ		06/17/2015	22:20		
16	ZZZZZ		06/17/2015	22:36		
17	ZZZZZ		06/17/2015	22:53		
18	ZZZZZ		06/17/2015	23:09		
19	ZZZZZ		06/17/2015	23:25		
20	ZZZZZ		06/17/2015	23:41		
21	ZZZZZ		06/17/2015	23:58		
22	ZZZZZ		06/18/2015	00:14		
23	ZZZZZ		06/18/2015	00:30		
24	ZZZZZ		06/18/2015	00:46		
25	ZZZZZ		06/18/2015	01:02		
26	ZZZZZ		06/18/2015	01:18		
27	ZZZZZ		06/18/2015	01:34		
28	ZZZZZ		06/18/2015	01:51		
29	ZZZZZ		06/18/2015	02:07		
30	ZZZZZ		06/18/2015	02:23		
31	ZZZZZ		06/18/2015	02:39		
32	ZZZZZ		06/18/2015	02:55		

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/17/2015 06/17/2015

Instrument ID: GCE20

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.17 DCB: 9.51

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	ZZZZZ		06/18/2015	03:11		
02	ABLKS1	20150617B037	06/18/2015	03:28	4.17	9.51
03	ALCSS1	20150617B038	06/18/2015	03:44	4.17	9.51
04	F9K00	20150617B039	06/18/2015	04:00	4.17	9.51
05	F9M82	20150617B040	06/18/2015	04:16	4.17	9.51
06	F9M83	20150617B041	06/18/2015	04:32	4.17	9.51
07	F9M84	20150617B042	06/18/2015	04:48	4.17	9.51
08	F9M85	20150617B043	06/18/2015	05:05	4.17	9.51
09	F9M86	20150617B044	06/18/2015	05:21	4.17	9.51
10	F9M87	20150617B045	06/18/2015	05:37	4.17	9.51
11	F9M88	20150617B046	06/18/2015	05:53	4.17	9.51
12	F9M89	20150617B047	06/18/2015	06:09	4.17	9.51
13	F9M90	20150617B048	06/18/2015	06:25	4.17	9.50
14	F9M91	20150617B049	06/18/2015	06:41	4.17	9.50
15	F9M91MS	20150617B050	06/18/2015	06:57	4.17	9.50
16	F9M91MSD	20150617B051	06/18/2015	07:13	4.17	9.51
17	F9M92	20150617B052	06/18/2015	07:29	4.17	9.51
18	F9M93	20150617B053	06/18/2015	07:46	4.17	9.51
19	F9M94	20150617B054	06/18/2015	08:02	4.17	9.51
20	F9M95	20150617B055	06/18/2015	08:18	4.17	9.50
21	F9M96	20150617B056	06/18/2015	08:34	4.17	9.50
22	F9M97	20150617B057	06/18/2015	08:50	4.17	9.50
23	F9M98	20150617B058	06/18/2015	09:07	4.17	9.50
24	F9M99	20150617B059	06/18/2015	09:23	4.17	9.50
25	AIBLKC2	20150617B060	06/18/2015	09:39	4.17	9.50
26	AR16603C2	20150617B061	06/18/2015	09:55	4.17	9.50
27						
28						
29						
30						
31						
32						

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

10C - FORM X ARO
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

ALCSS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 451345 Date(s) Analyzed: 06/18/2015 06/18/2015

Instrument ID (1): GCE20 Instrument ID (2): GCE20

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION PEAK	CONCENTRATION MEAN	%D
AR1016	1	3.87	3.80	3.94	15.		
	2	4.19	4.12	4.26	26.		
COLUMN 1	3	4.60	4.53	4.67	23.		
	4						
	5					21.	
	1	4.61	4.54	4.68	22.		
	2	5.38	5.30	5.44	23.		
COLUMN 2	3	5.50	5.43	5.57	22.		
	4						
	5					22.	6.2
AR1260	1	6.19	6.12	6.26	25.		
	2	6.55	6.48	6.62	24.		
COLUMN 1	3	6.79	6.72	6.86	26.		
	4						
	5					25.	
	1	7.04	6.96	7.10	24.		
	2	7.22	7.14	7.28	25.		
COLUMN 2	3	7.54	7.47	7.61	22.		
	4						
	5					24.	6.6
	1						
	2						
COLUMN 1	3						
	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						

At least three peaks for each column are required for identification of multicomponent analytes.

10C - FORM X ARO
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

F9M91MS

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725012 Date(s) Analyzed: 06/18/2015 06/18/2015

Instrument ID (1): GCE20 Instrument ID (2): GCE20

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION PEAK	CONCENTRATION MEAN	%D
AR1016	1	3.86	3.80	3.94	120		
	2	4.19	4.12	4.26	130		
COLUMN 1	3	4.60	4.53	4.67	130		
	4						
	5					120	
	1	4.61	4.54	4.68	110		
	2	5.37	5.30	5.44	130		
COLUMN 2	3	5.50	5.43	5.57	120		
	4						
	5					120	4.2
AR1260	1	6.18	6.12	6.26	83.		
	2	6.55	6.48	6.62	140		
COLUMN 1	3	6.79	6.72	6.86	120		
	4						
	5					110	
	1	7.03	6.96	7.10	130		
	2	7.21	7.14	7.28	150		
COLUMN 2	3	7.54	7.47	7.61	130		
	4						
	5					140	21.1
	1						
	2						
COLUMN 1	3						
	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						

At least three peaks for each column are required for identification of multicomponent analytes.

10C - FORM X ARO
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

F9M91MSD

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Lab Sample ID: 1515725013 Date(s) Analyzed: 06/18/2015 06/18/2015

Instrument ID (1): GCE20 Instrument ID (2): GCE20

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION PEAK	CONCENTRATION MEAN	%D
AR1016	1	3.86	3.80	3.94	120		
	2	4.19	4.12	4.26	120		
COLUMN 1	3	4.60	4.53	4.67	130		
	4						
	5					120	
	1	4.61	4.54	4.68	120		
	2	5.37	5.30	5.44	130		
COLUMN 2	3	5.50	5.43	5.57	140		
	4						
	5					130	4.0
AR1260	1	6.18	6.12	6.26	78.		
	2	6.55	6.48	6.62	190		
COLUMN 1	3	6.79	6.72	6.86	120		
	4						
	5					130	
	1	7.03	6.96	7.10	120		
	2	7.21	7.14	7.28	160		
COLUMN 2	3	7.54	7.47	7.61	120		
	4						
	5					130	4.8
	1						
	2						
COLUMN 1	3						
	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						

At least three peaks for each column are required for identification of multicomponent analytes.

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:02
Operator	: borges	Sample Name	: AR16601A1
Sample Number	: 04	Study	: 28333
AutoSampler	: HP7673A	Rack/Vial	: 0/4
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/17/2015 18:17:00	Dilution Factor	: 1.00
		Cycle	: 3

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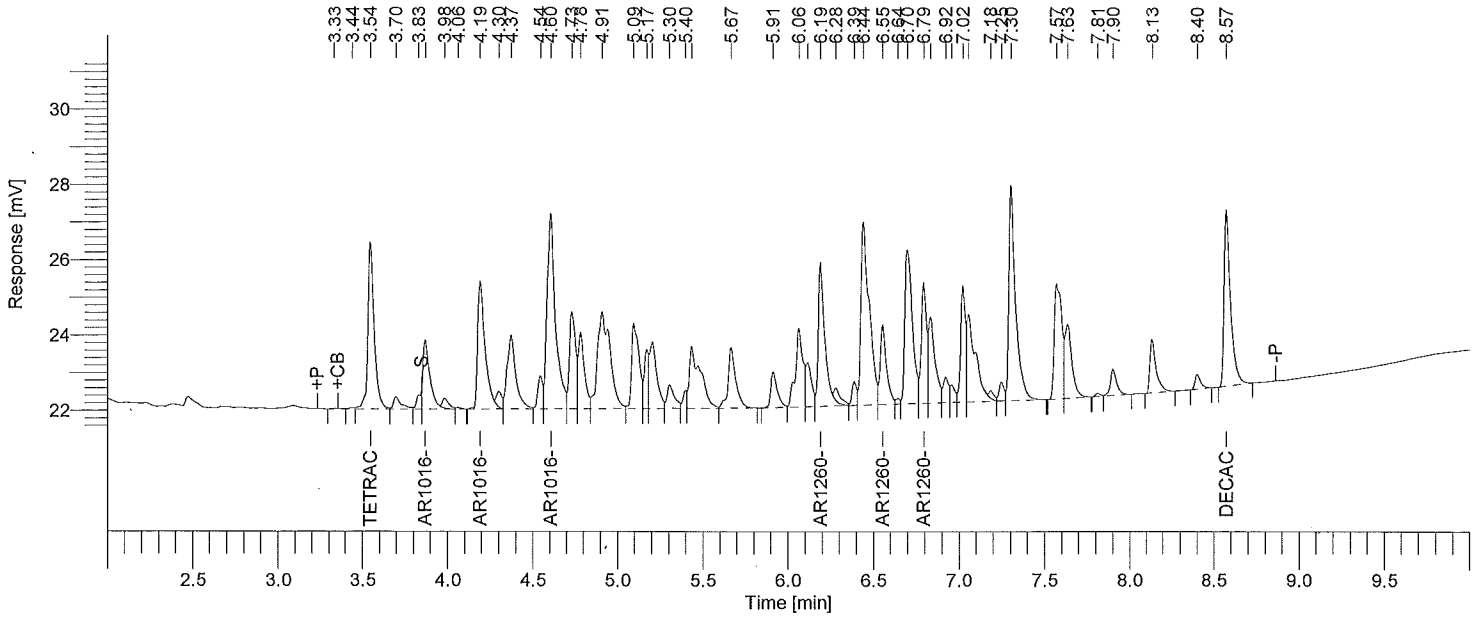

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.54	Tetrachloro-m-xylene	11321	0.0052882
3.87	AR1016-1	5209	0.1168075
4.19	AR1016-2	10450	0.1215912
4.60	AR1016-3	17818	0.1120055
6.19	AR1260-1	10431	0.1180955
6.55	AR1260-2	5453	0.1050113
6.79	AR1260-3	6642	0.1179193
8.57	Decachlorobiphenyl	12081	0.0119910

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:03
Operator	: borges	Sample Name	: AR16602A1
Sample Number	: 05	Study	: 28334
AutoSampler	: HP7673A	Rack/Vial	: 0/5
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/17/2015 18:33:12	Cycle	: 4

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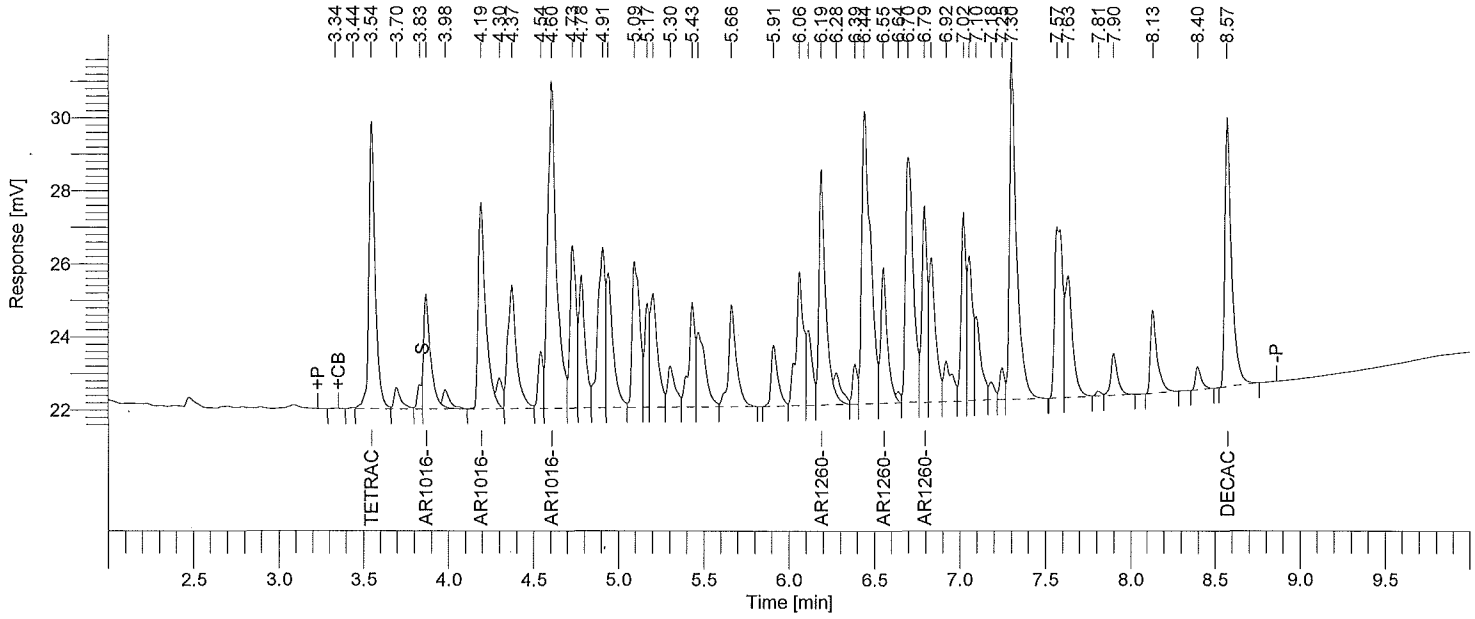

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.54	Tetrachloro-m-xylene	19993	0.0093388
3.87	AR1016-1	8870	0.1989083
4.19	AR1016-2	17505	0.2036652
4.60	AR1016-3	31427	0.1975497
6.19	AR1260-1	18025	0.2040803
6.55	AR1260-2	10125	0.1949910
6.79	AR1260-3	11329	0.2011364
8.57	Decachlorobiphenyl	19832	0.0196836

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:05
Operator	: borges	Sample Name	: AR16603A1
Sample Number	: 06	Study	: 28335
AutoSampler	: HP7673A	Rack/Vial	: 0/6
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/17/2015 18:49:26	Dilution Factor	: 1.00
		Cycle	: 5

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Result File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_006.rst
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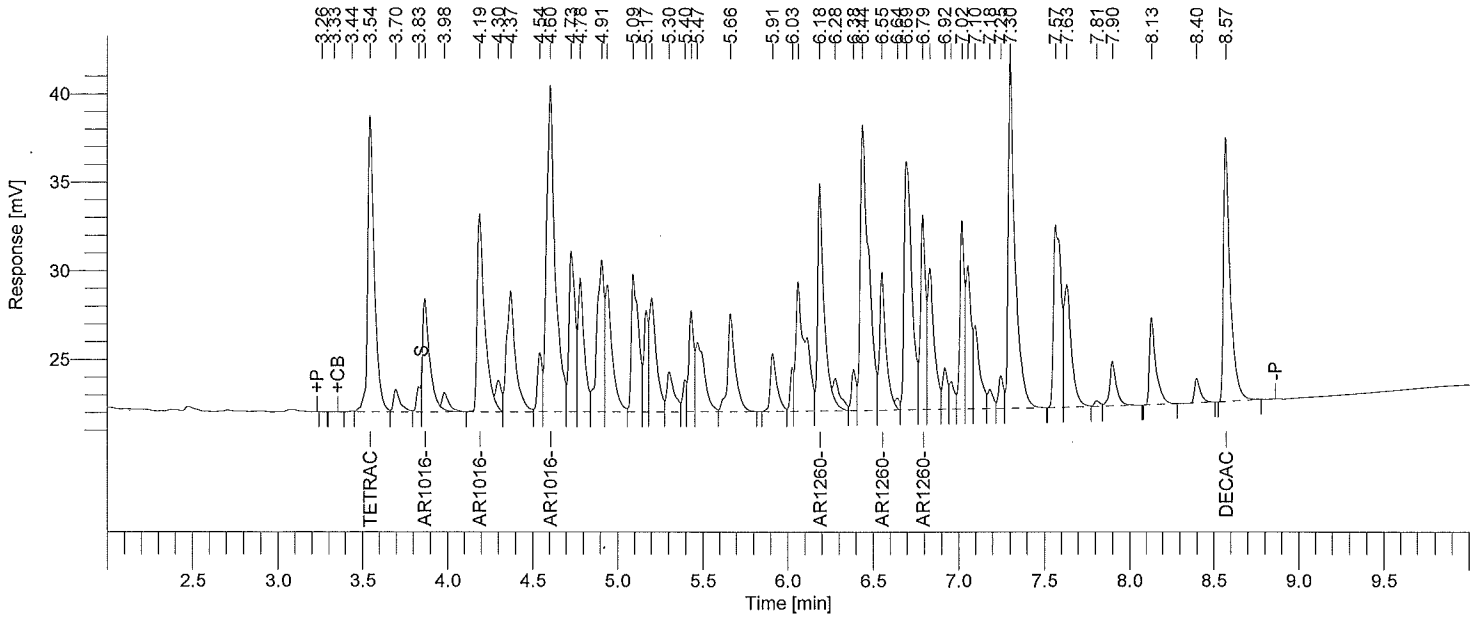

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.54	Tetrachloro-m-xylene	44851	0.0209499
3.87	AR1016-1	18292	0.4101976
4.19	AR1016-2	34710	0.4038555
4.60	AR1016-3	64116	0.4030367
6.18	AR1260-1	34606	0.3918084
6.55	AR1260-2	20474	0.3942843
6.79	AR1260-3	22051	0.3914929
8.57	Decachlorobiphenyl	39547	0.0392510

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:06
Operator	: borges	Sample Name	: AR16604A1
Sample Number	: 07	Study	: 28336
AutoSampler	: HP7673A	Rack/Vial	: 0/7
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/17/2015 19:05:50	Cycle	: 6

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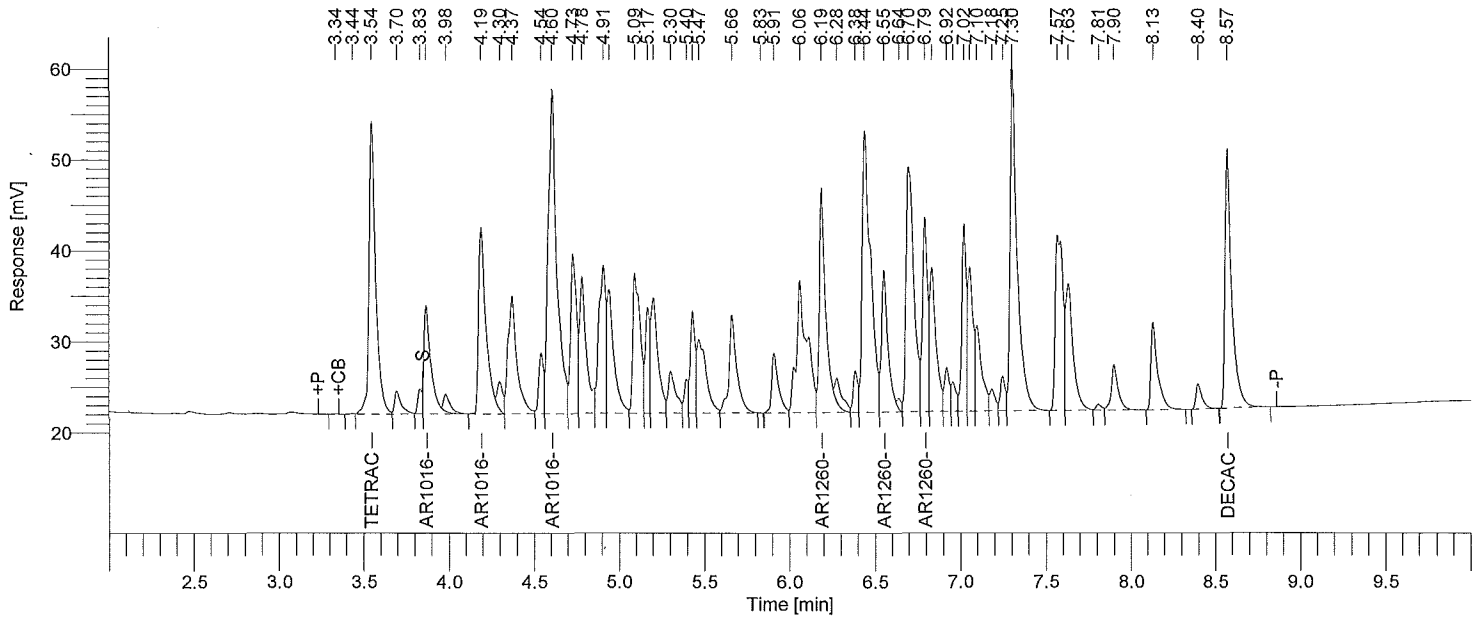

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.54	Tetrachloro-m-xylene	87046	0.0406596
3.87	AR1016-1	34083	0.7642926
4.19	AR1016-2	64165	0.7465538
4.60	AR1016-3	125132	0.7865852
6.19	AR1260-1	67452	0.7636984
6.55	AR1260-2	42629	0.8209430
6.79	AR1260-3	43333	0.7693305
8.57	Decachlorobiphenyl	76975	0.0764001

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:08
Operator	: borges	Sample Name	: AR16605A1
Sample Number	: 08	Study	: 28337
AutoSampler	: HP7673A	Rack/Vial	: 0/8
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/17/2015 19:22:16	Cycle	: 7

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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_standard_a.rpt
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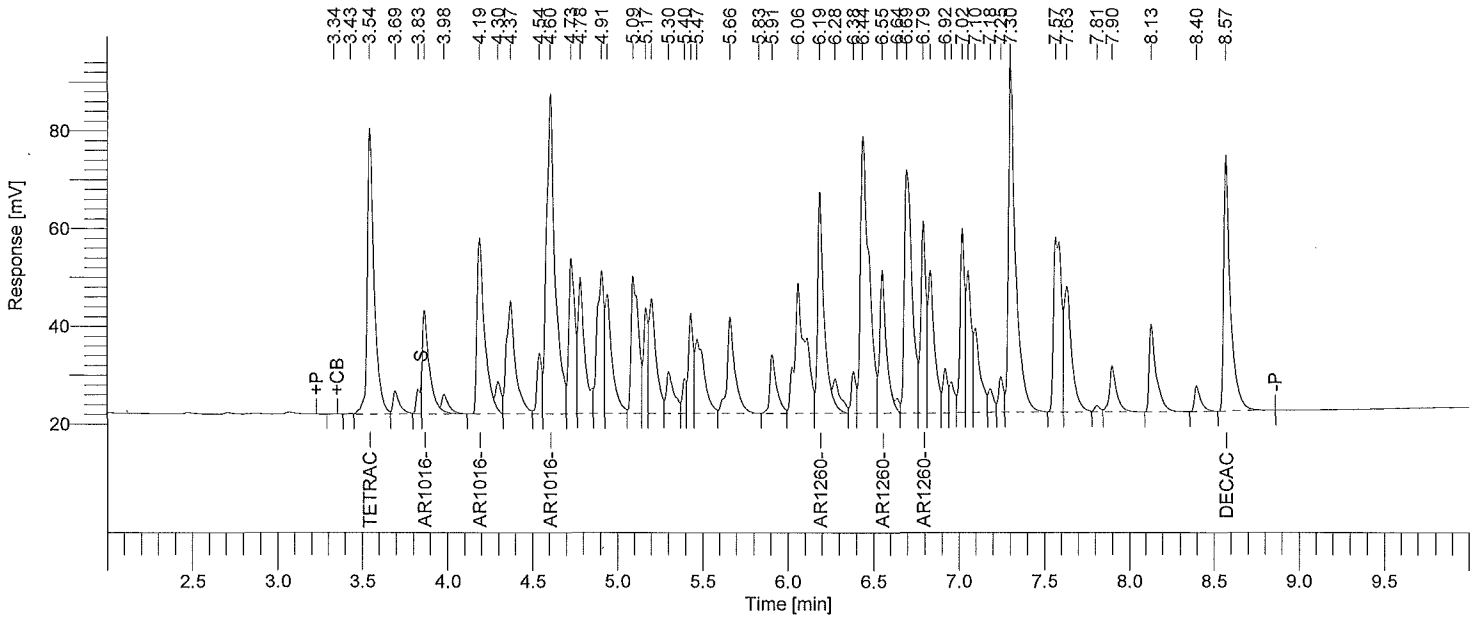

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.54	Tetrachloro-m-xylene	161764	0.0755604
3.87	AR1016-1	61113	1.3704384
4.19	AR1016-2	113166	1.3166894
4.60	AR1016-3	229429	1.4421979
6.19	AR1260-1	122168	1.3831996
6.55	AR1260-2	80012	1.5408679
6.79	AR1260-3	78831	1.3995673
8.57	Decachlorobiphenyl	141932	0.1408711

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:10
Operator	: borges	Sample Name	: AR12213A1
Sample Number	: 09	Study	: 28340
AutoSampler	: HP7673A	Rack/Vial	: 0/9
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/17/2015 19:38:26	Cycle	: 8

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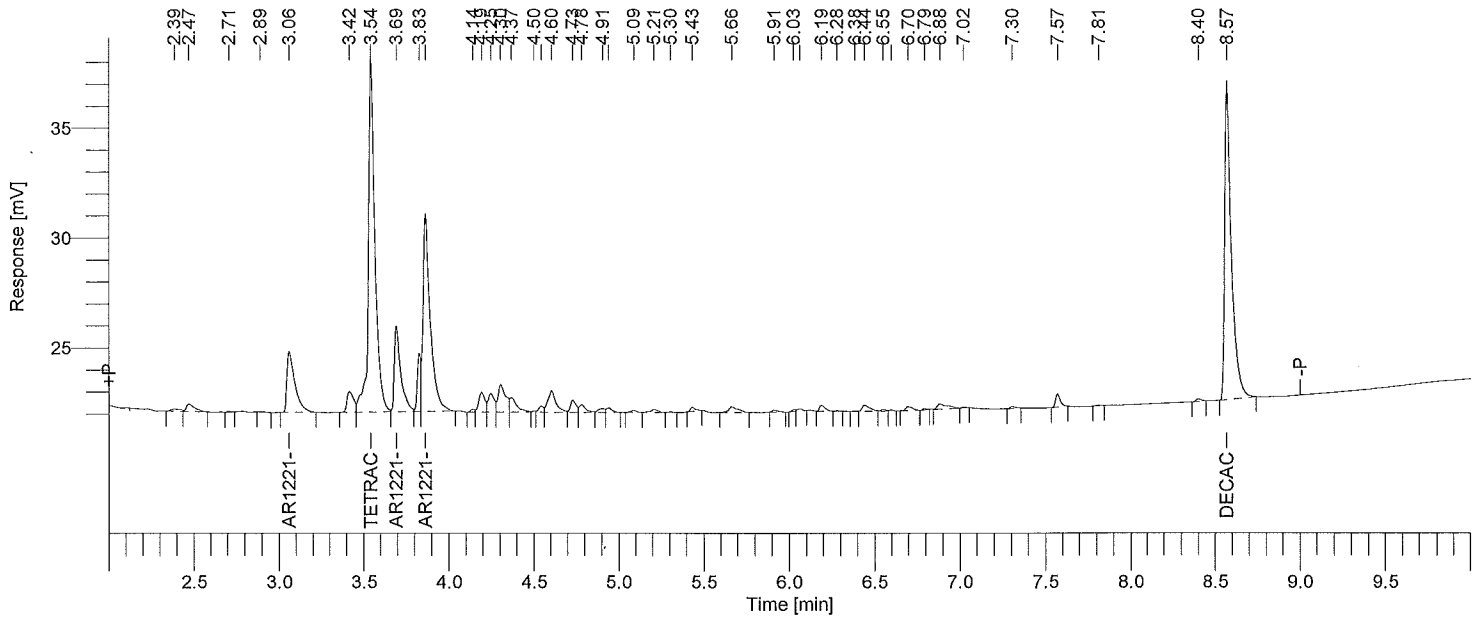

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.06	AR1221-1	8940	0.4000000
3.54	Tetrachloro-m-xylene	43565	0.0200000
3.69	AR1221-2	10337	0.4000000
3.86	AR1221-3	26117	0.4000000
8.57	Decachlorobiphenyl	38607	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:11
Operator	: borges	Sample Name	: AR12323A1
Sample Number	: 10	Study	: 28346
AutoSampler	: HP7673A	Rack/Vial	: 0/10
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/17/2015 19:54:38	Cycle	: 9

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_010.raw
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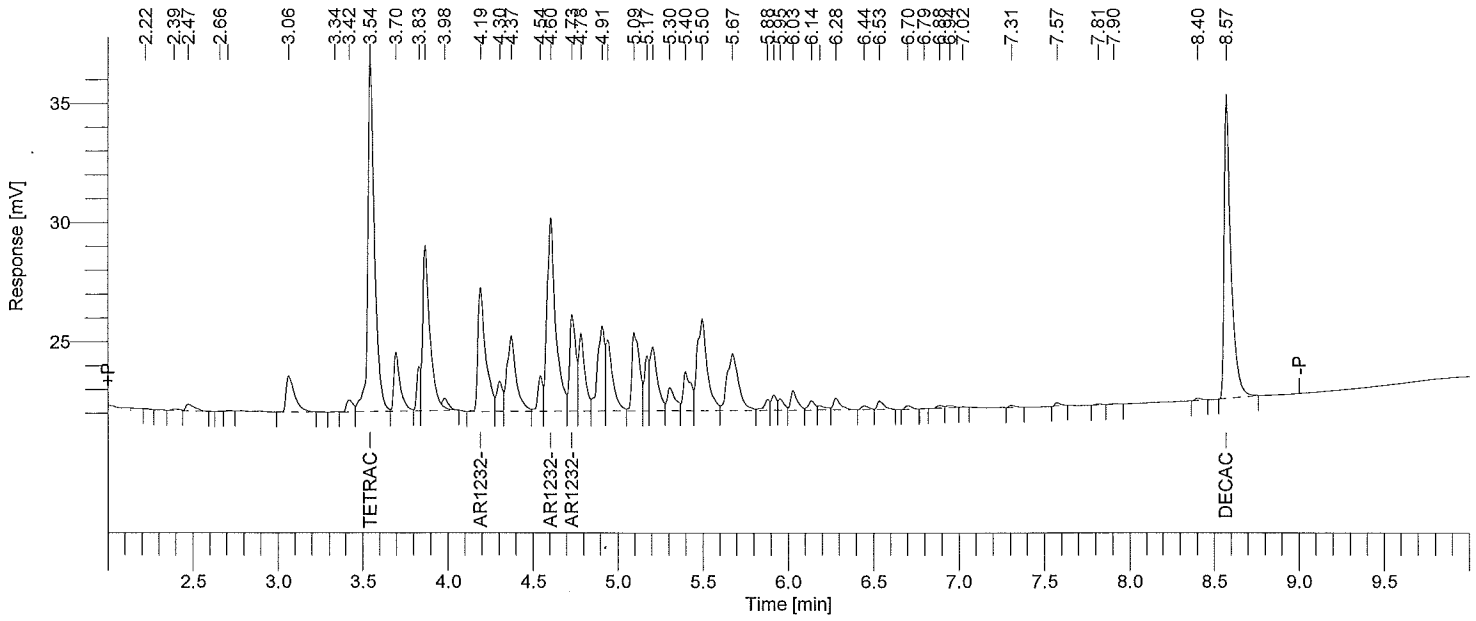

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.54	Tetrachloro-m-xylene	39911	0.0200000
4.19	AR1232-1	16484	0.4000000
4.60	AR1232-2	28218	0.4000000
4.73	AR1232-3	10130	0.4000000
8.57	Decachlorobiphenyl	35007	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:20
Operator	: borges	Sample Name	: AR12423A1
Sample Number	: 11	Study	: 28351
AutoSampler	: HP7673A	Rack/Vial	: 0/11
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/17/2015 20:10:46	Dilution Factor	: 1.00
		Cycle	: 10

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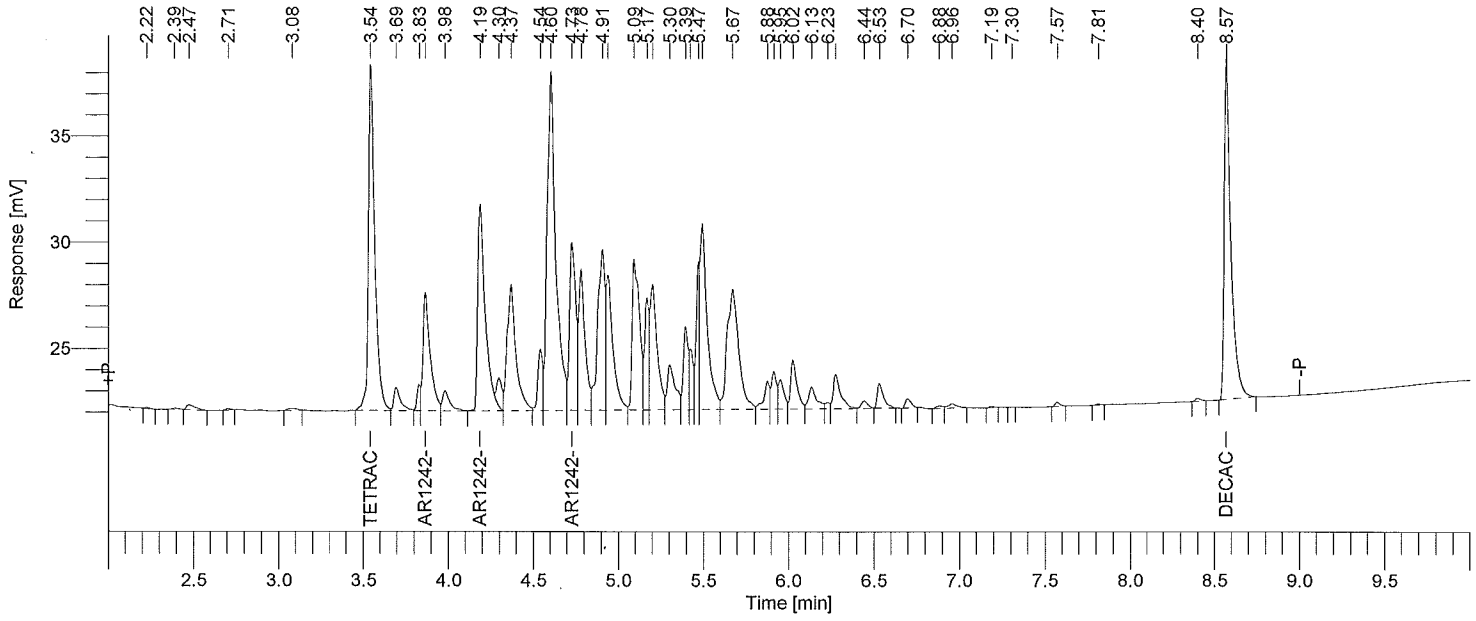

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.54	Tetrachloro-m-xylene	42439	0.0200000
3.87	AR1242-1	15989	0.4000000
4.19	AR1242-2	30326	0.4000000
4.73	AR1242-3	19818	0.4000000
8.57	Decachlorobiphenyl	43045	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:22
Operator	: borges	Sample Name	: AR12483A1
Sample Number	: 12	Study	: 28356
AutoSampler	: HP7673A	Rack/Vial	: 0/12
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/17/2015 20:26:58	Cycle	: 11

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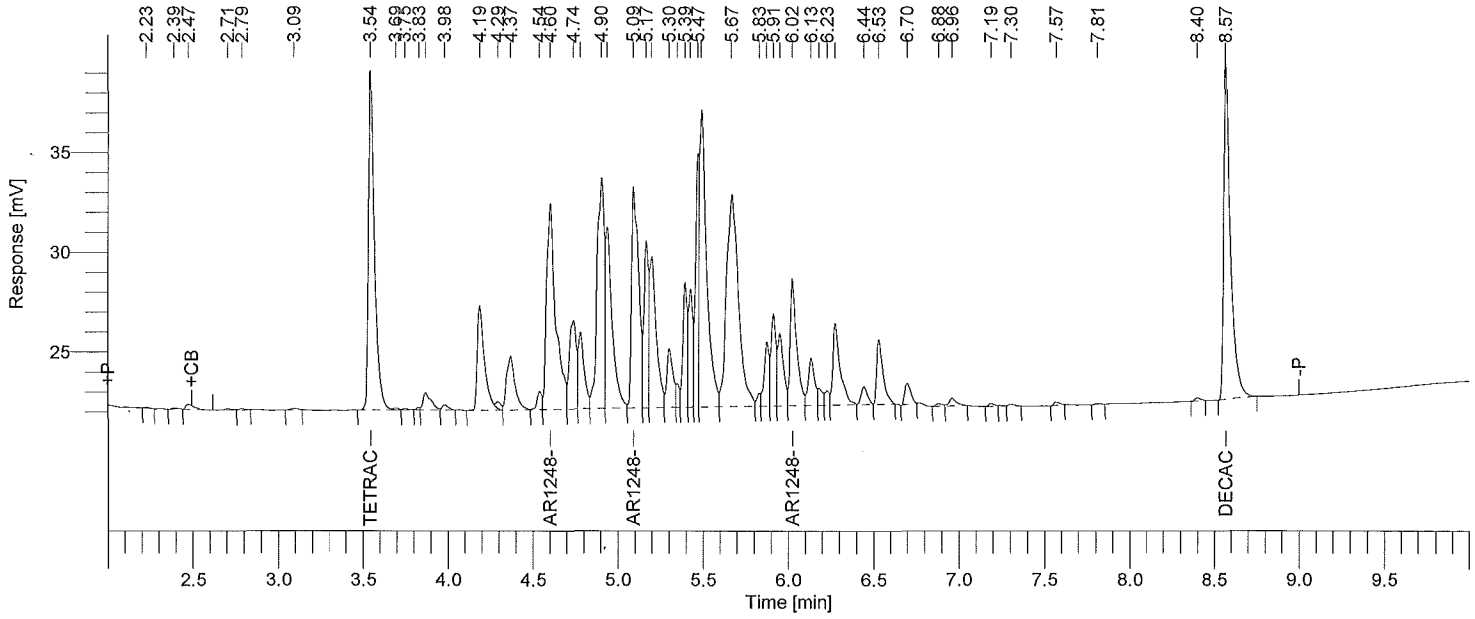

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.54	Tetrachloro-m-xylene	41898	0.0200000
4.60	AR1248-1	38684	0.4000000
5.09	AR1248-2	32222	0.4000000
6.02	AR1248-3	16574	0.4000000
8.57	Decachlorobiphenyl	46487	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:25
Operator	: borges	Sample Name	: AR12543A1
Sample Number	: 13	Study	: 28361
AutoSampler	: HP7673A	Rack/Vial	: 0/13
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/17/2015 20:43:18	Cycle	: 12

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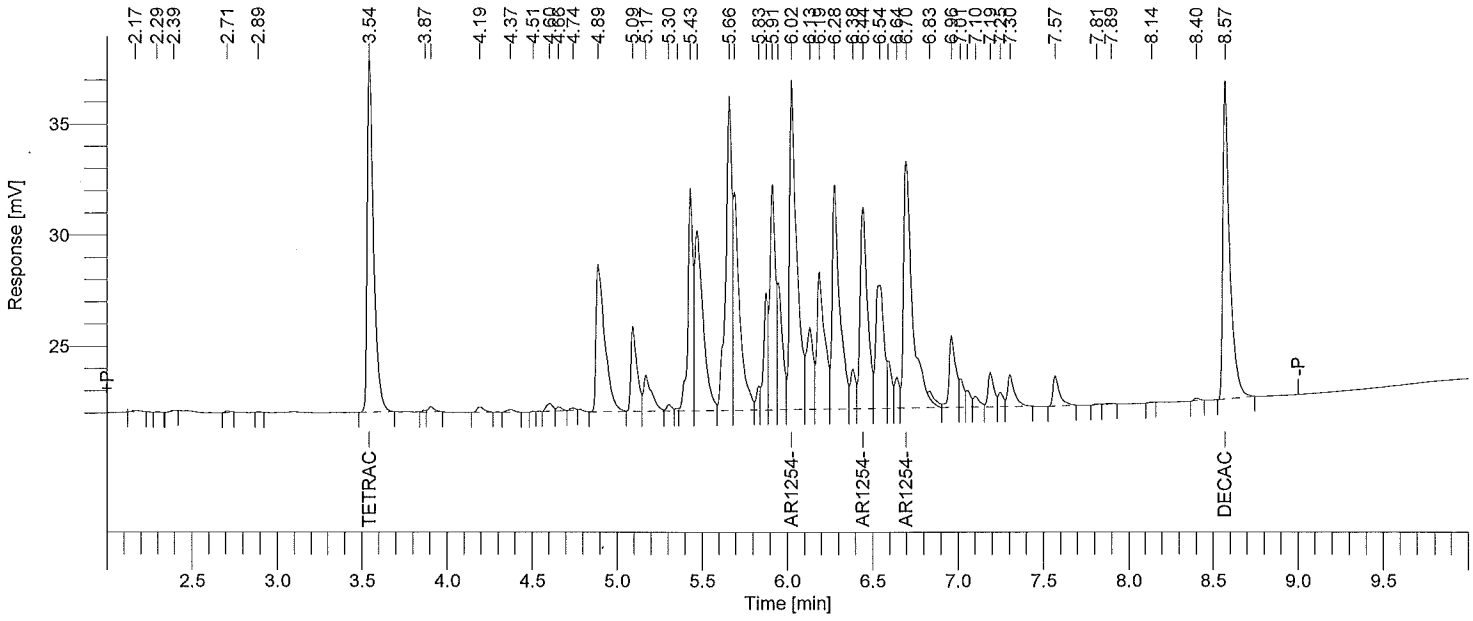

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.54	Tetrachloro-m-xylene	40759	0.0200000
6.02	AR1254-1	42410	0.4000000
6.44	AR1254-2	27162	0.4000000
6.70	AR1254-3	40321	0.4000000
8.57	Decachlorobiphenyl	38797	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:26
Operator '	: borges	Sample Name	: AR12623A1
Sample Number	: 14	Study	: 28366
AutoSampler	: HP7673A	Rack/Vial	: 0/14
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/17/2015 20:59:28	Cycle	: 13

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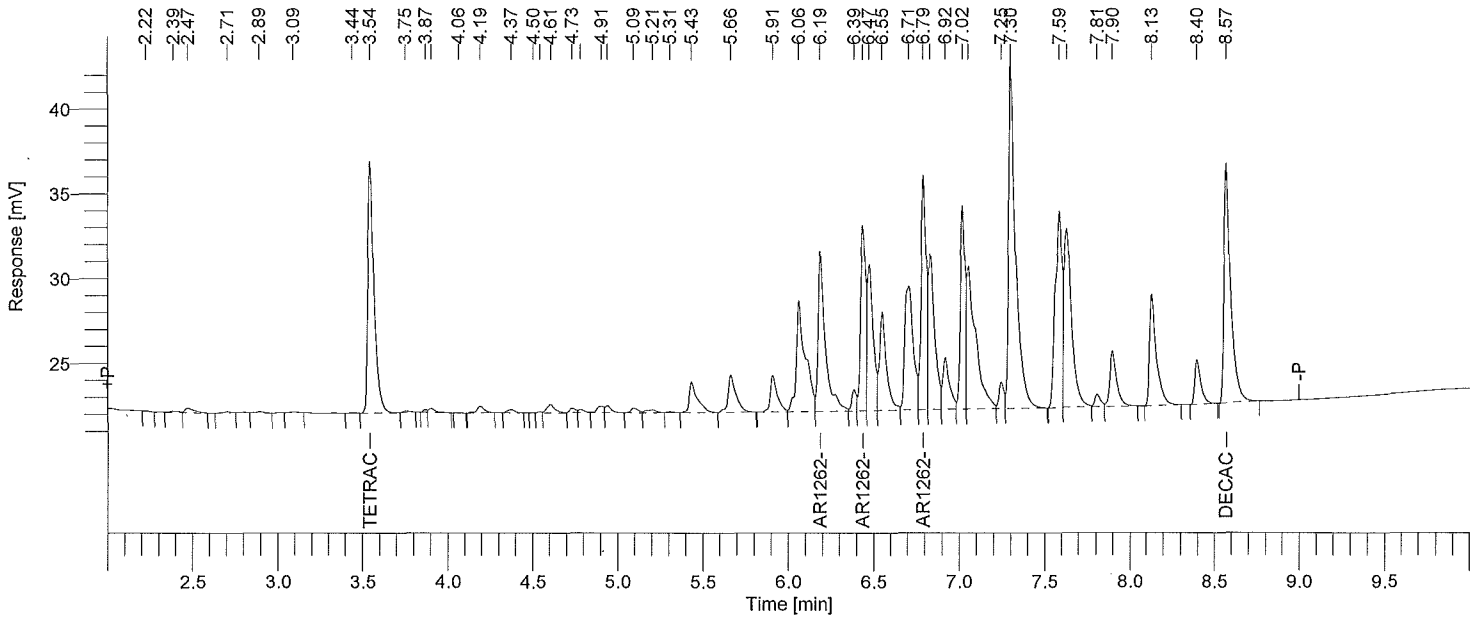

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.54	Tetrachloro-m-xylene	37128	0.0200000
6.19	AR1262-1	28045	0.4000000
6.44	AR1262-2	22238	0.4000000
6.79	AR1262-3	27601	0.4000000
8.57	Decachlorobiphenyl	38583	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:27
Operator	: borges	Sample Name	: AR12683A1
Sample Number	: 15	Study	: 28371
AutoSampler	: HP7673A	Rack/Vial	: 0/15
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/17/2015 21:15:50	Cycle	: 14

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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_standard_a.rpt
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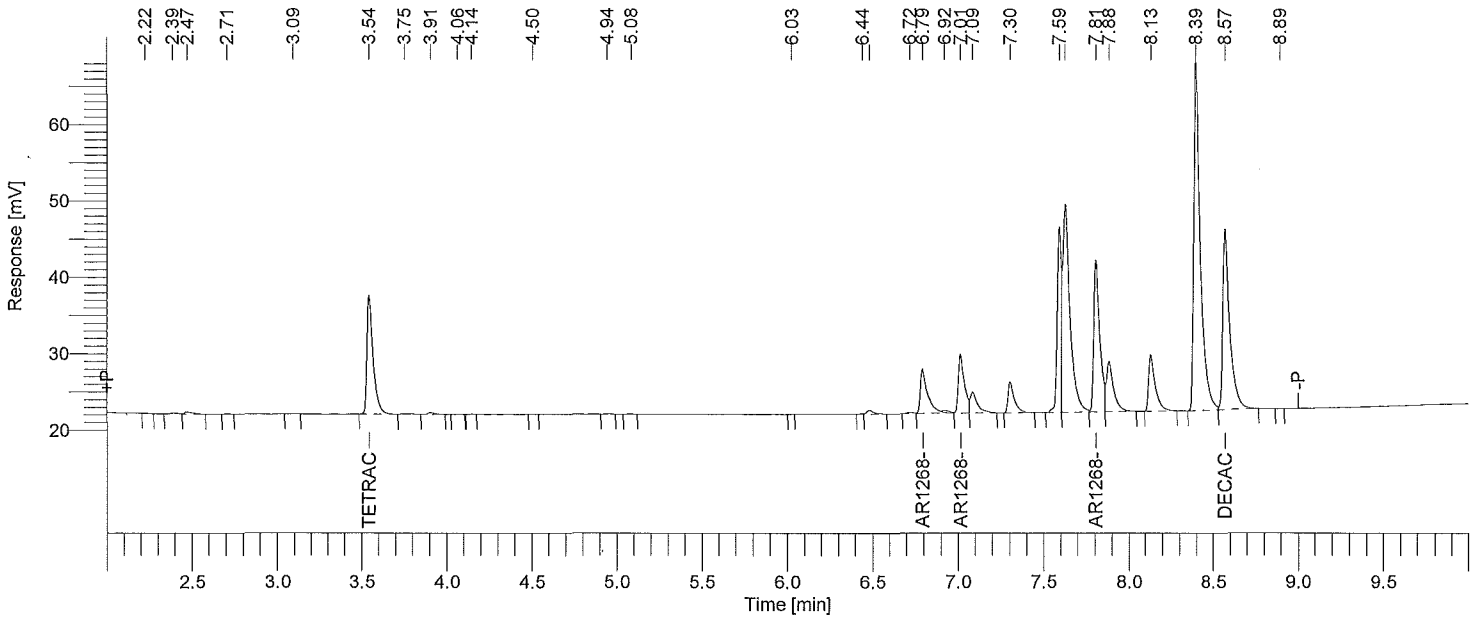

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.54	Tetrachloro-m-xylene	38840	0.0200000
6.79	AR1268-1	16601	0.4000000
7.01	AR1268-2	18842	0.4000000
7.81	AR1268-3	46890	0.4000000
8.57	Decachlorobiphenyl	65177	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:30
Operator	: borges	Sample Name	: AR16603B1
Sample Number	: 17	Study	: 28335
AutoSampler	: HP7673A	Rack/Vial	: 0/17
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/17/2015 21:48:19	Dilution Factor	: 1.00
		Cycle	: 16

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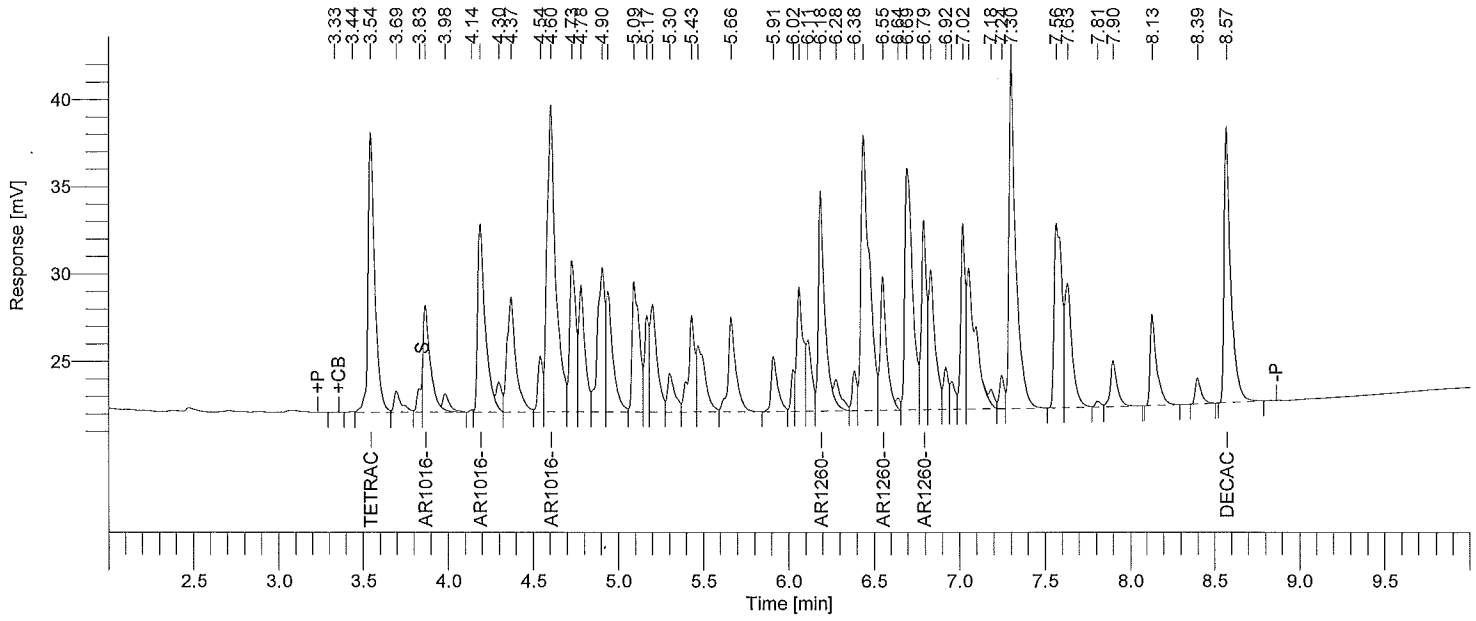

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM ARO CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
3.54	Tetrachloro-m-xylene	42925	0.0200504	0.0200504	0.0200000	100.3
3.86	AR1016-1	17423	0.3906951	0.3906951	0.4000000	97.7
4.19	AR1016-2	33560	0.3904659	0.3904659	0.4000000	97.6
4.60	AR1016-3	61946	0.3893936	0.3893936	0.4000000	97.3
6.18	AR1260-1	33925	0.3841018	0.3841018	0.4000000	96.0
6.55	AR1260-2	20260	0.3901702	0.3901702	0.4000000	97.5
6.79	AR1260-3	21673	0.3847780	0.3847780	0.4000000	96.2
8.57	Decachlorobiphenyl	42161	0.0418459	0.0418459	0.0400000	104.6

All analytes <= to +/-15% opening CCV, <=+/-50% closing CCV.

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:34
Operator	: borges	Sample Name	: AR16603C1
Sample Number	: 61	Study	: 28335
AutoSampler	: HP7673A	Rack/Vial	: 0/61
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 09:39:23	Cycle	: 2

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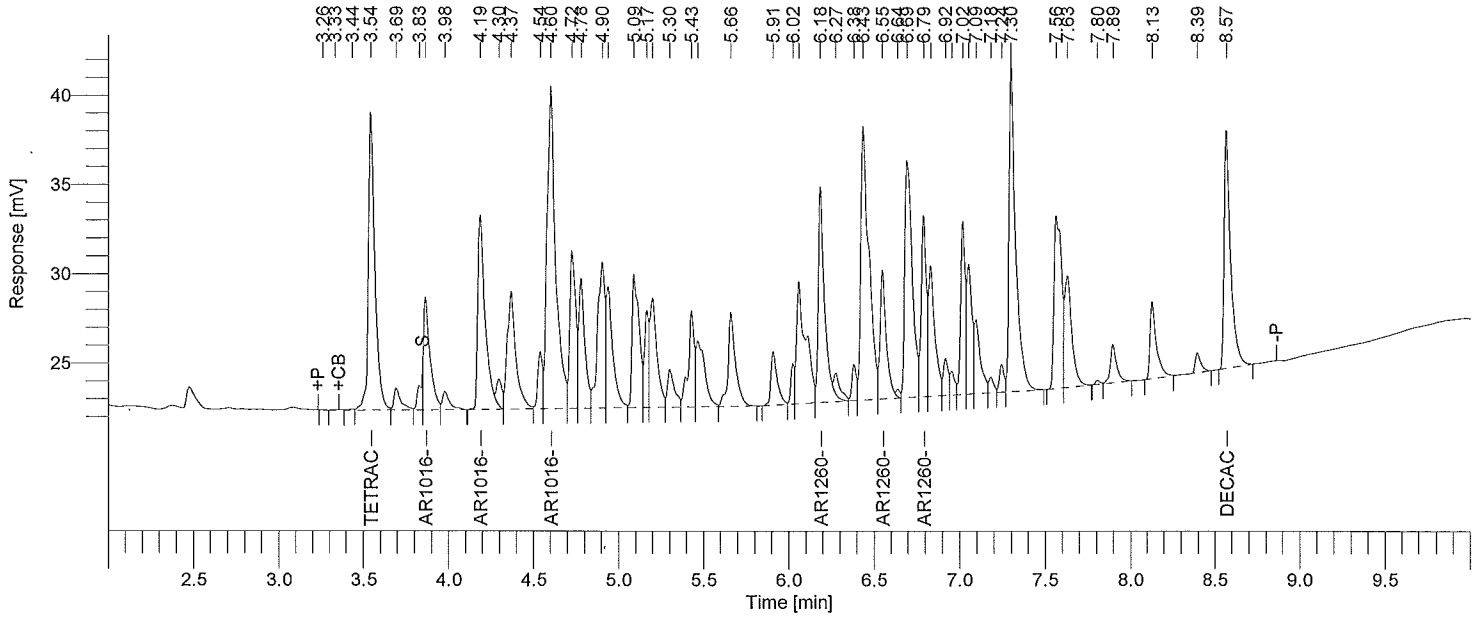

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM ARO CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
3.54	Tetrachloro-m-xylene	43442	0.0202921	0.0202921	0.0200000	101.5
3.86	AR1016-1	16622	0.3727418	0.3727418	0.4000000	93.2
4.19	AR1016-2	33551	0.3903650	0.3903650	0.4000000	97.6
4.60	AR1016-3	62422	0.3923863	0.3923863	0.4000000	98.1
6.18	AR1260-1	31725	0.3591885	0.3591885	0.4000000	89.8
6.55	AR1260-2	18225	0.3509840	0.3509840	0.4000000	87.7
6.79	AR1260-3	20341	0.3611334	0.3611334	0.4000000	90.3
8.57	Decachlorobiphenyl	34843	0.0345829	0.0345829	0.0400000	86.5

All analytes <= to +/-15% opening CCV, <=+/-50% closing CCV.

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:38
Operator	: borges	Sample Name	: AR16601A2
Sample Number	: 04	Study	: 28333
AutoSampler	: HP7673A	Rack/Vial	: 0/4
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/17/2015 18:33:12	Cycle	: 4

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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_004.rst
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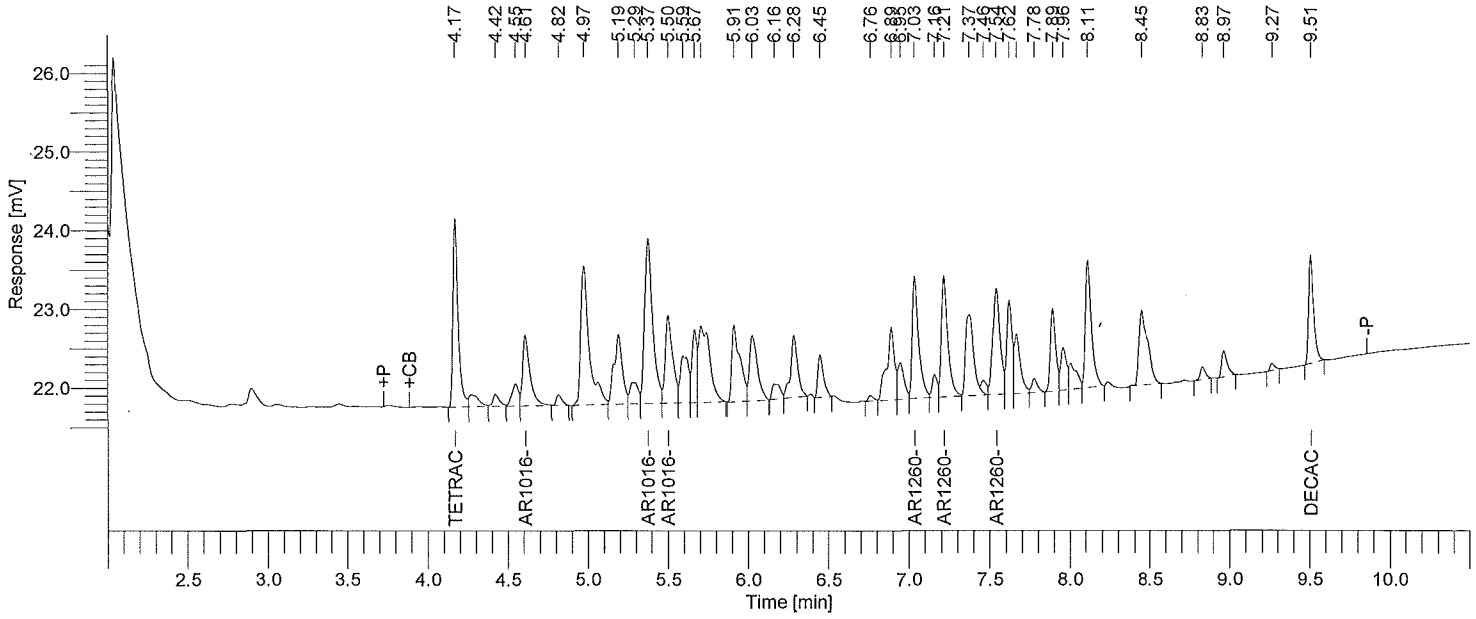
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_standard_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617_SOM_AROS_F9M15_F9K00_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	5398	0.0047332
4.61	AR1016-1	2863	0.1146108
5.37	AR1016-2	7413	0.1068706
5.50	AR1016-3	3630	0.1163407
7.03	AR1260-1	4265	0.1120444
7.21	AR1260-2	4244	0.1094606
7.54	AR1260-3	4197	0.1044282
9.51	Decachlorobiphenyl	3005	0.0101211

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:40
Operator	: borges	Sample Name	: AR16602A2
Sample Number	: 05	Study	: 28334
AutoSampler	: HP7673A	Rack/Vial	: 0/5
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/17/2015 18:49:26	Cycle	: 5

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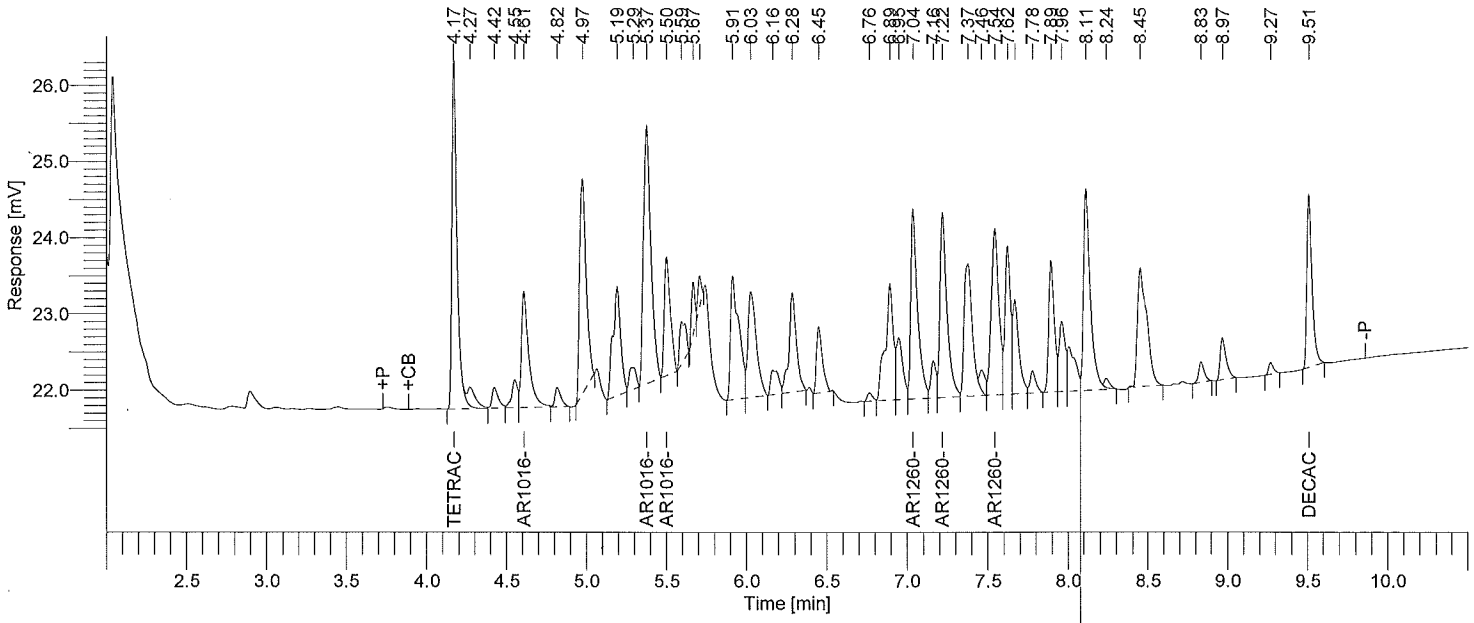

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	10341	0.0090686
4.61	AR1016-1	4855	0.1943068
5.37	AR1016-2	10947	0.1578335
5.50	AR1016-3	4158	0.1332462
7.04	AR1260-1	7308	0.1920210
7.22	AR1260-2	7361	0.1898260
7.54	AR1260-3	7087	0.1763288
9.51	Decachlorobiphenyl	5164	0.0173921

21554

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:41
Operator	: borges	Sample Name	: AR16603A2
Sample Number	: 06	Study	: 28335
AutoSampler	: HP7673A	Rack/Vial	: 0/6
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/17/2015 19:05:50	Cycle	: 6

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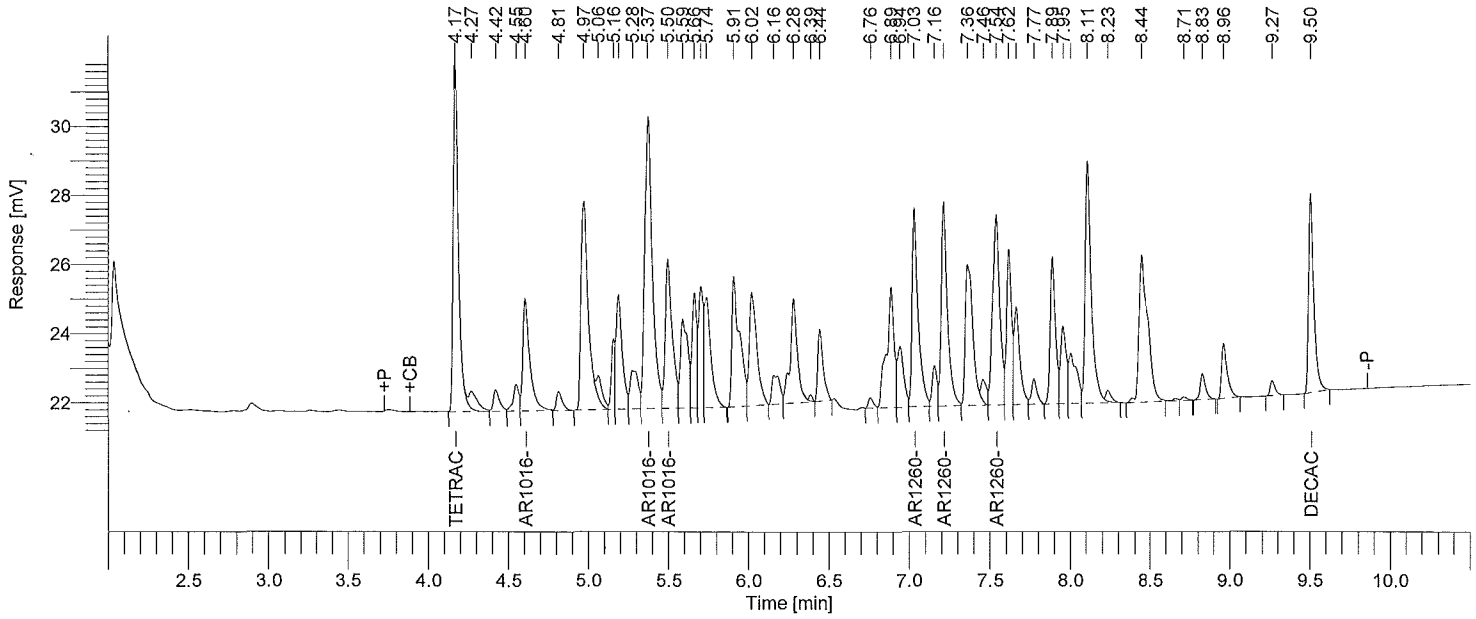

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	23177	0.0203239
4.60	AR1016-1	9874	0.3952081
5.37	AR1016-2	28417	0.4097081
5.50	AR1016-3	13039	0.4178805
7.03	AR1260-1	15083	0.3962896
7.21	AR1260-2	15513	0.4000721
7.54	AR1260-3	16771	0.4172763
9.50	Decachlorobiphenyl	13143	0.0442670

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:43
Operator	: borges	Sample Name	: AR16604A2
Sample Number	: 07	Study	: 28336
AutoSampler	: HP7673A	Rack/Vial	: 0/7
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/17/2015 19:22:16	Cycle	: 7

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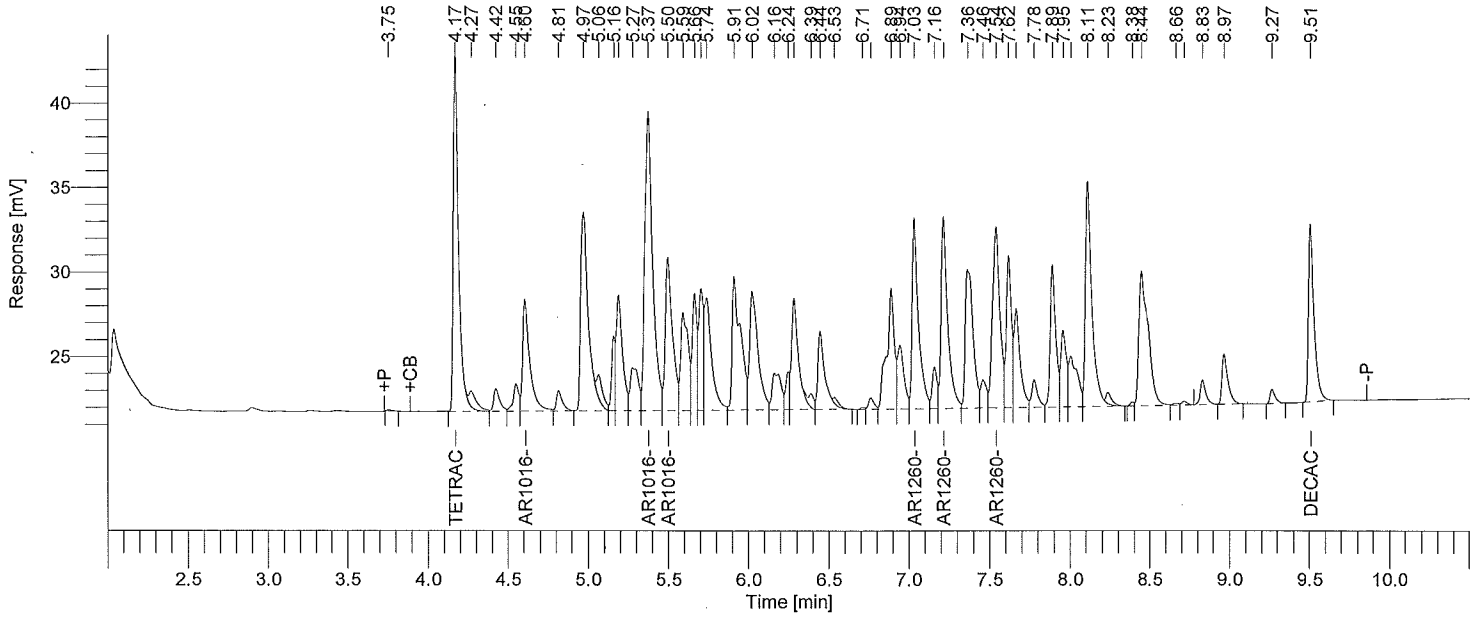

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	49854	0.0437173
4.60	AR1016-1	20007	0.8008096
5.37	AR1016-2	61125	0.8812681
5.50	AR1016-3	27913	0.8945674
7.03	AR1260-1	31012	0.8148021
7.21	AR1260-2	31994	0.8251115
7.54	AR1260-3	33999	0.8459250
9.51	Decachlorobiphenyl	24992	0.0841769

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:44
Operator	: borges	Sample Name	: AR16605A2
Sample Number	: 08	Study	: 28337
AutoSampler	: HP7673A	Rack/Vial	: 0/8
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/17/2015 19:38:26	Cycle	: 8

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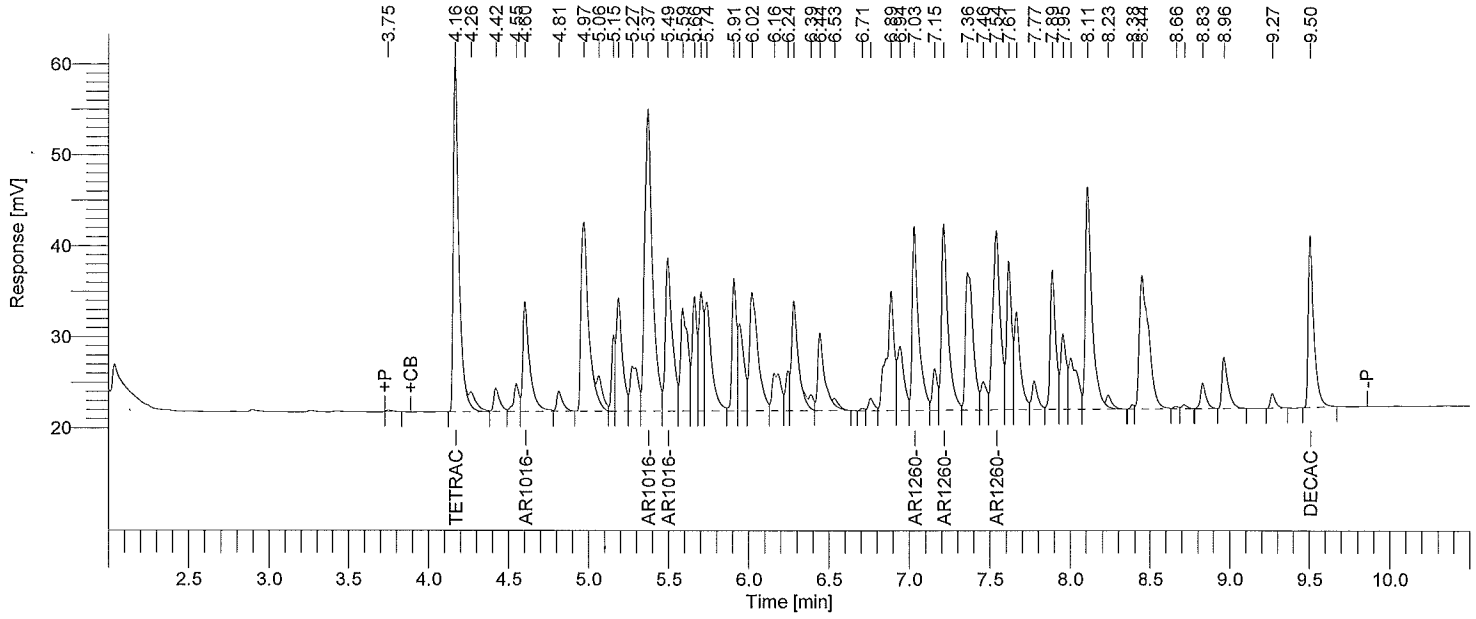

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.16	Tetrachloro-m-xylene	94639	0.0829900
4.60	AR1016-1	35710	1.4293217
5.37	AR1016-2	112781	1.6260339
5.49	AR1016-3	50297	1.6119227
7.03	AR1260-1	55430	1.4563585
7.21	AR1260-2	57368	1.4795107
7.54	AR1260-3	62601	1.5575626
9.50	Decachlorobiphenyl	45575	0.1535031

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:45
Operator	: borges	Sample Name	: AR12213A2
Sample Number	: 09	Study	: 28340
AutoSampler	: HP7673A	Rack/Vial	: 0/9
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/17/2015 19:54:38	Cycle	: 9

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_009.raw
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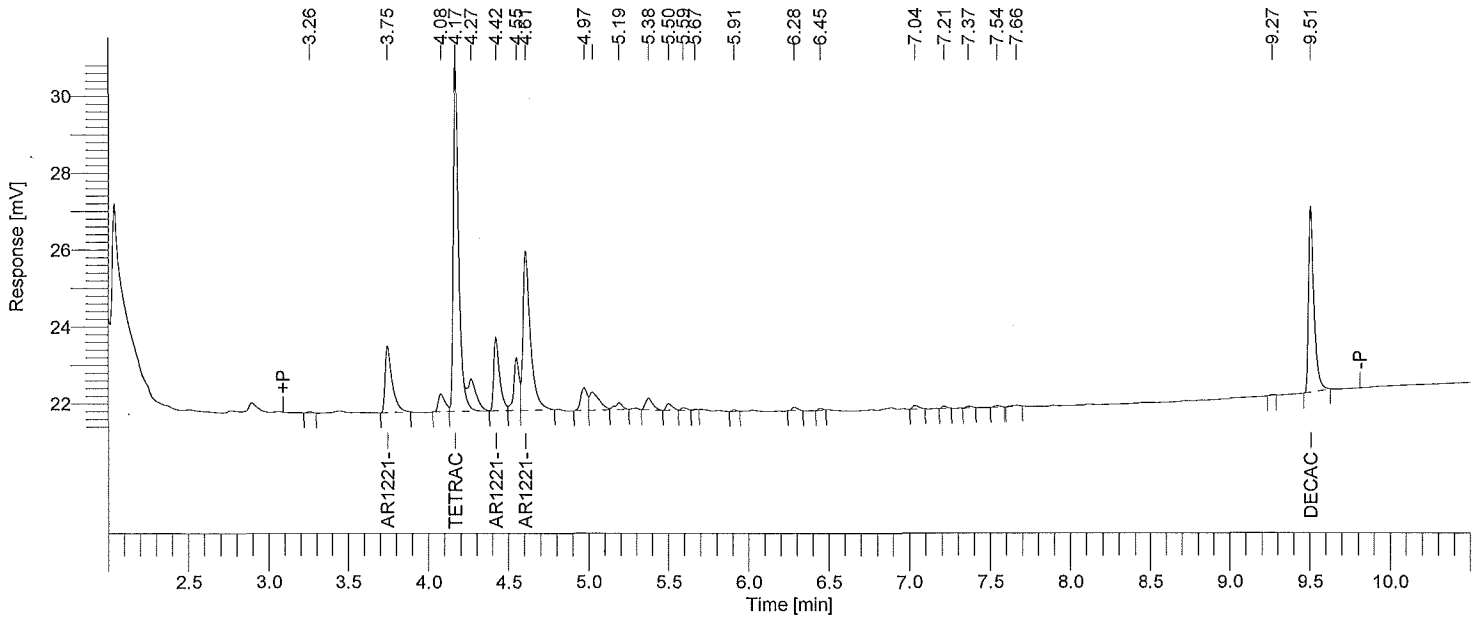

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.75	AR1221-1	5280	0.4000000
4.17	Tetrachloro-m-xylene	20802	0.0200000
4.42	AR1221-2	4842	0.4000000
4.61	AR1221-3	13259	0.4000000
9.51	Decachlorobiphenyl	11268	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:47
Operator	: borges	Sample Name	: AR12323A2
Sample Number	: 10	Study	: 28346
AutoSampler	: HP7673A	Rack/Vial	: 0/10
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/17/2015 20:10:46	Cycle	: 10

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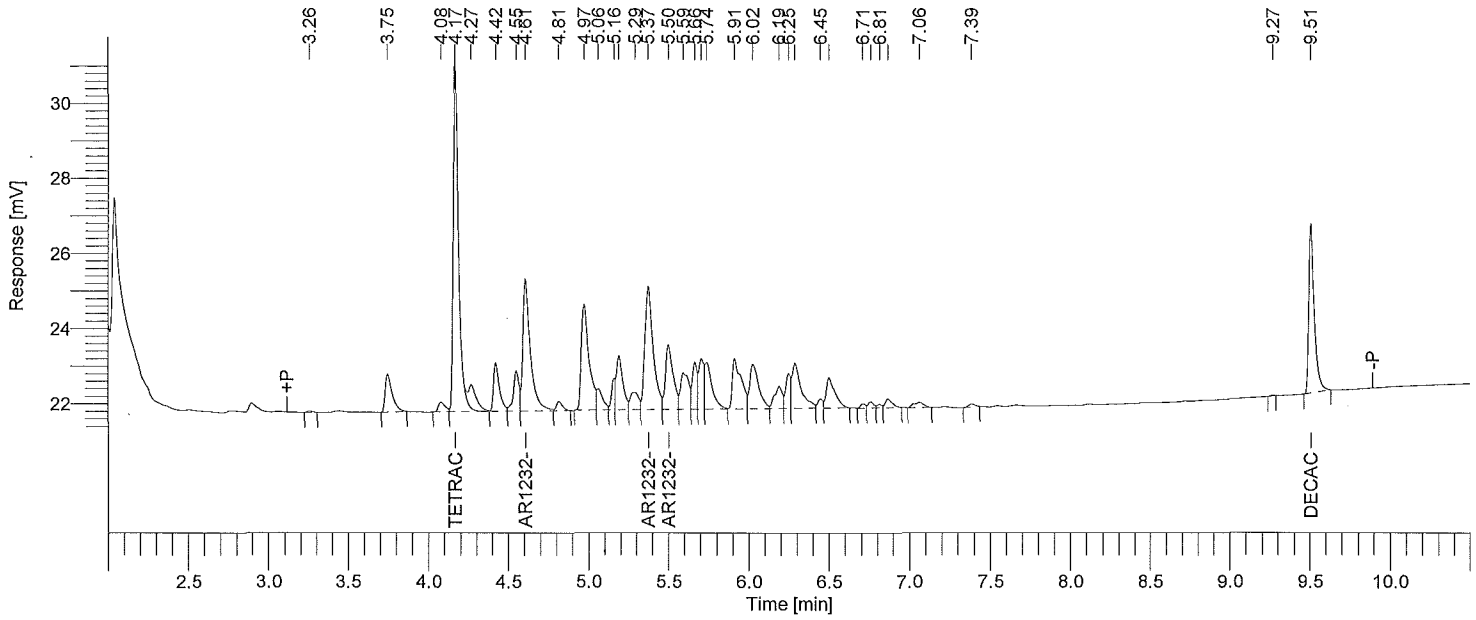

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	21424	0.0200000
4.61	AR1232-1	11331	0.4000000
5.37	AR1232-2	11929	0.4000000
5.50	AR1232-3	5784	0.4000000
9.51	Decachlorobiphenyl	10616	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:48
Operator	: borges	Sample Name	: AR12423A2
Sample Number	: 11	Study	: 28351
AutoSampler	: HP7673A	Rack/Vial	: 0/11
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/17/2015 20:26:58	Cycle	: 11

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Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150617\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_011.raw
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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_standard_b.rpt
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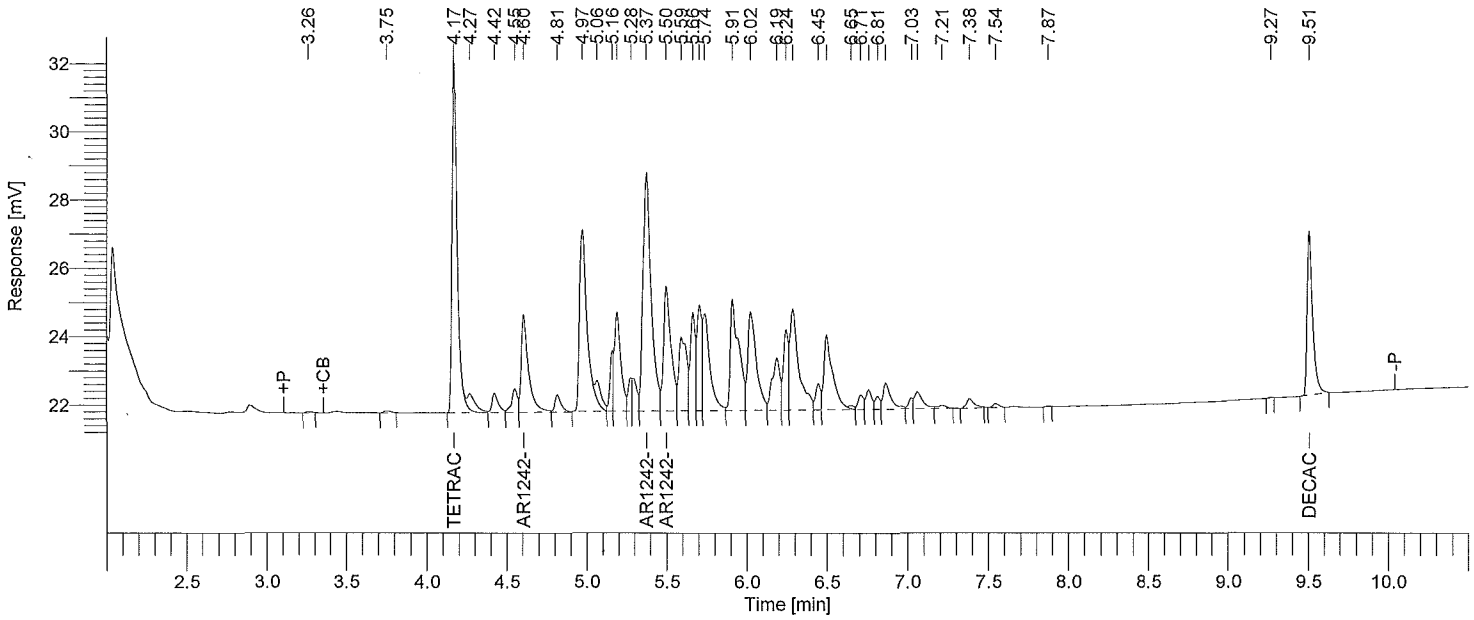

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	23596	0.0200000
4.60	AR1242-1	8939	0.4000000
5.37	AR1242-2	24768	0.4000000
5.50	AR1242-3	11802	0.4000000
9.51	Decachlorobiphenyl	11314	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:50
Operator	: borges	Sample Name	: AR12483A2
Sample Number	: 12	Study	: 28356
AutoSampler	: HP7673A	Rack/Vial	: 0/12
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/17/2015 20:43:18	Cycle	: 12

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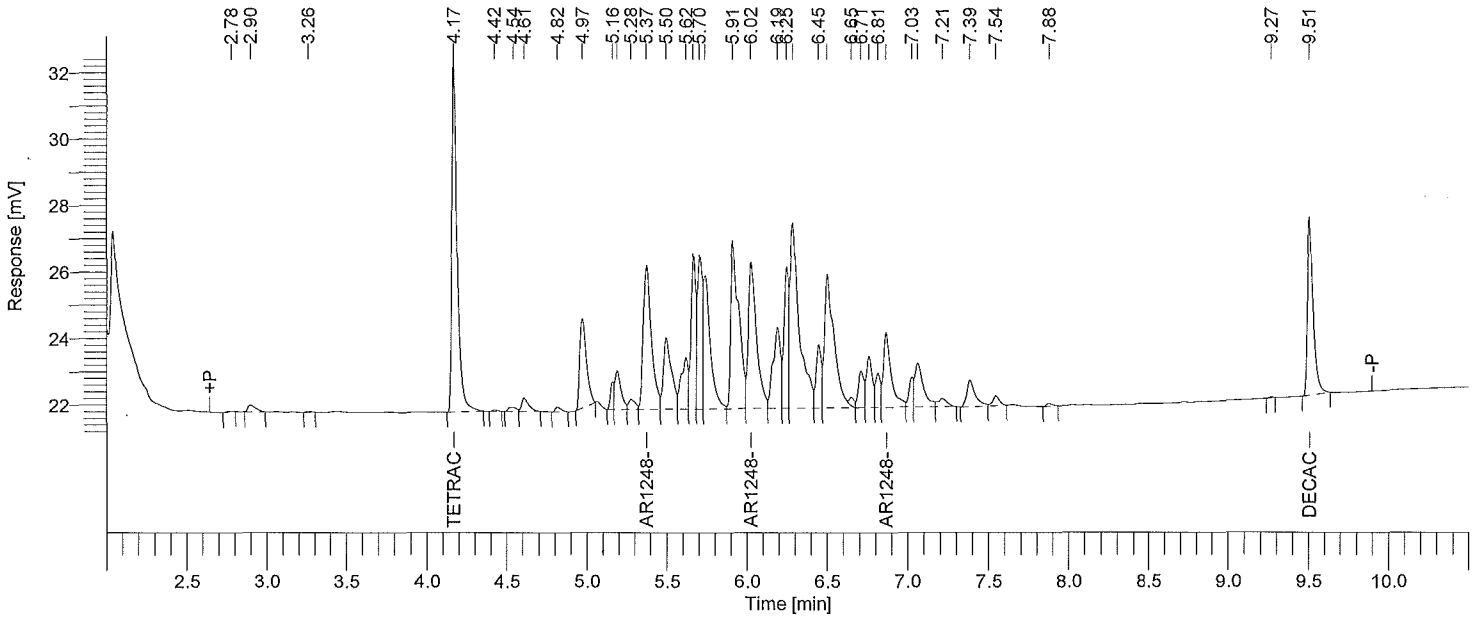
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_standard_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617_SOM_AROS_F9M15_F9K00_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	24409	0.0200000
5.37	AR1248-1	15487	0.4000000
6.02	AR1248-2	15586	0.4000000
6.86	AR1248-3	7687	0.4000000
9.51	Decachlorobiphenyl	12743	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:51
Operator	: borges	Sample Name	: AR12543A2
Sample Number	: 13	Study	: 28361
AutoSampler	: HP7673A	Rack/Vial	: 0/13
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/17/2015 20:59:28	Cycle	: 13

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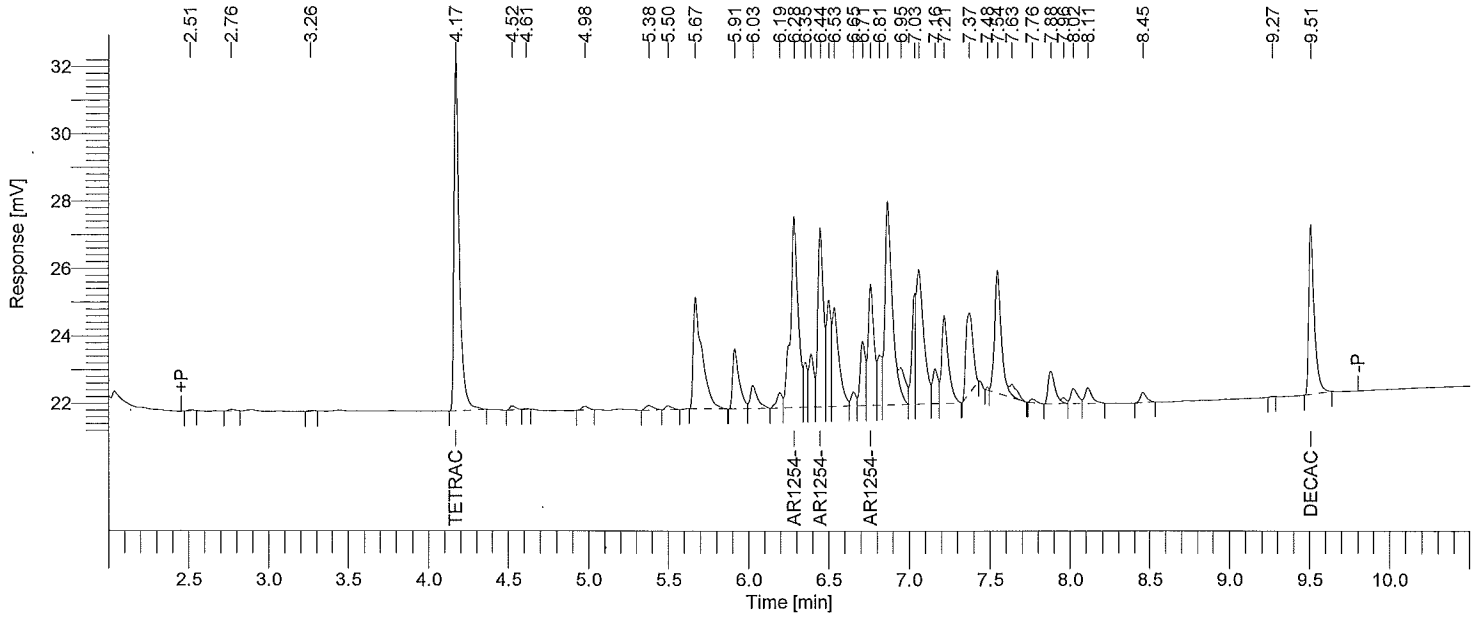

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	24262	0.0200000
6.28	AR1254-1	18359	0.4000000
6.44	AR1254-2	12700	0.4000000
6.76	AR1254-3	9037	0.4000000
9.51	Decachlorobiphenyl	11856	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:53
Operator	: borges	Sample Name	: AR12623A2
Sample Number	: 14	Study	: 28366
AutoSampler	: HP7673A	Rack/Vial	: 0/14
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/17/2015 21:15:50	Cycle	: 14

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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_62_sp_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_014.rst
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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_standard_b.rpt
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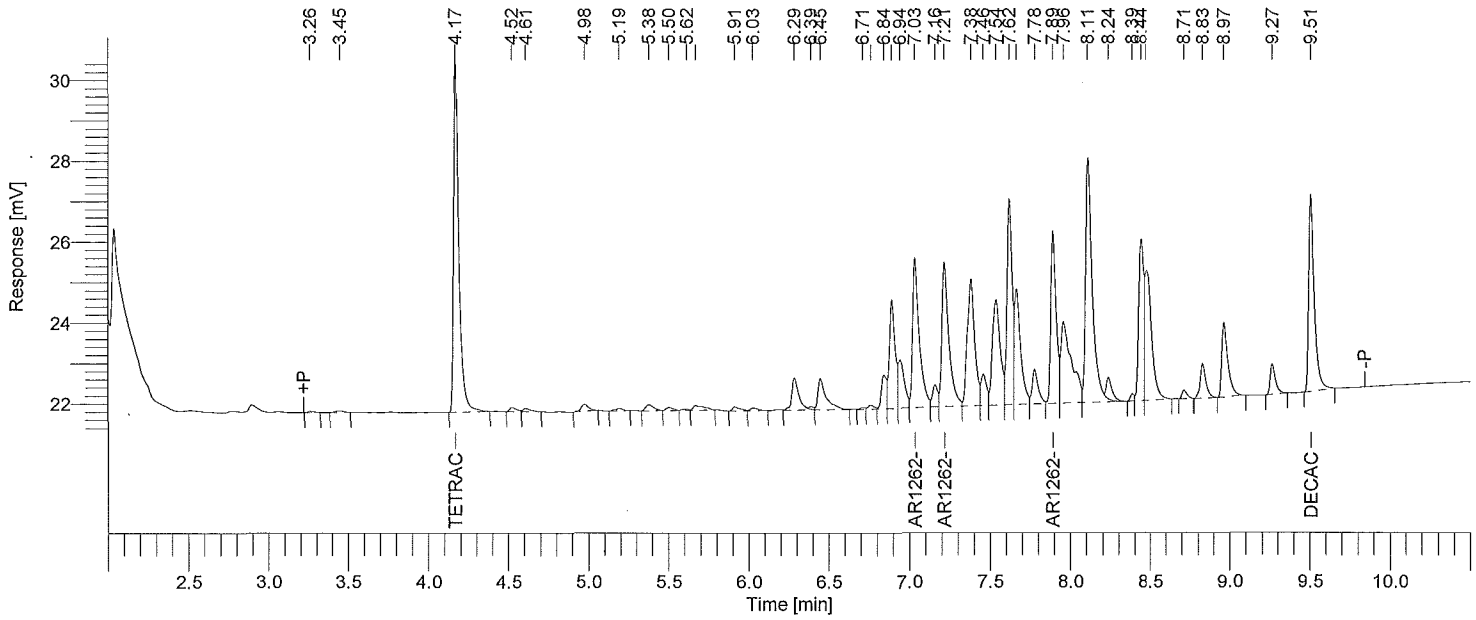

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	20078	0.0200000
7.03	AR1262-1	10581	0.4000000
7.21	AR1262-2	10653	0.4000000
7.89	AR1262-3	9867	0.4000000
9.51	Decachlorobiphenyl	11550	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:54
Operator	: borges	Sample Name	: AR12683A2
Sample Number	: 15	Study	: 28371
AutoSampler	: HP7673A	Rack/Vial	: 0/15
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/17/2015 21:32:12	Cycle	: 15

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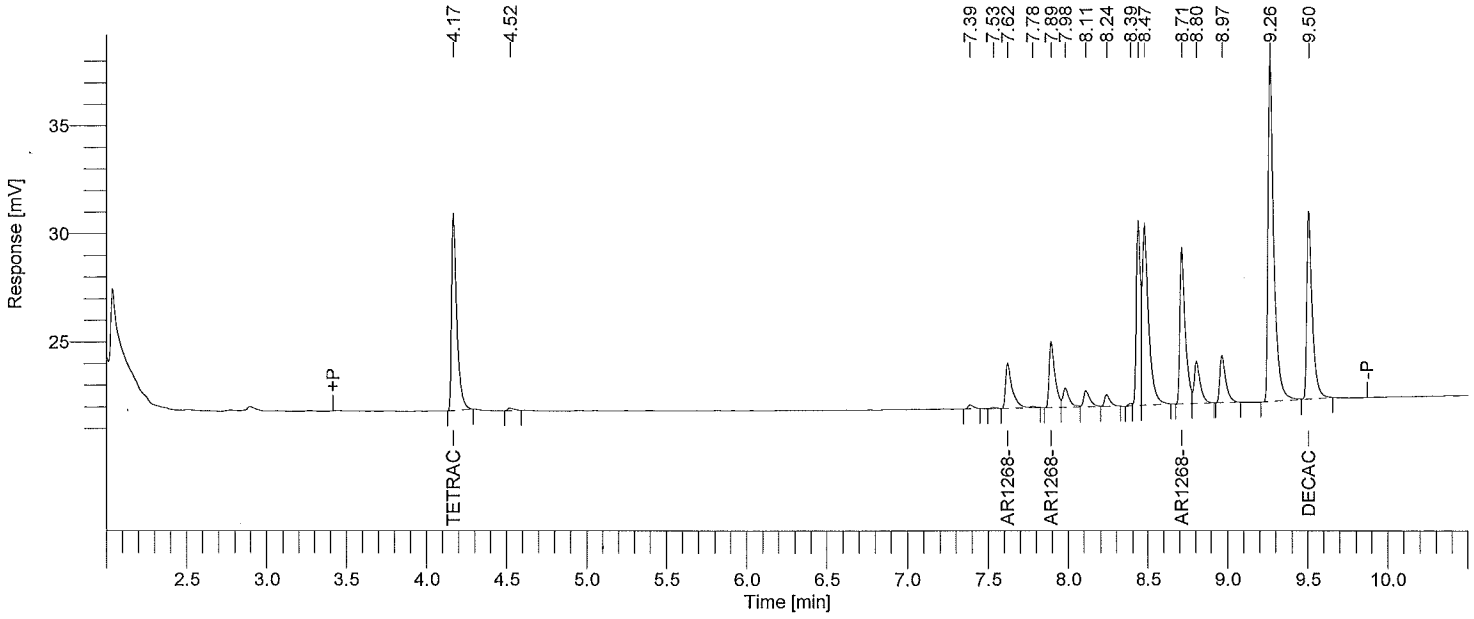

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	20444	0.0200000
7.62	AR1268-1	5982	0.4000000
7.89	AR1268-2	7561	0.4000000
8.71	AR1268-3	16557	0.4000000
9.50	Decachlorobiphenyl	20854	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:57
Operator	: borges	Sample Name	: AR16603B2
Sample Number	: 17	Study	: 28335
AutoSampler	: HP7673A	Rack/Vial	: 0/17
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/17/2015 22:04:30	Cycle	: 17

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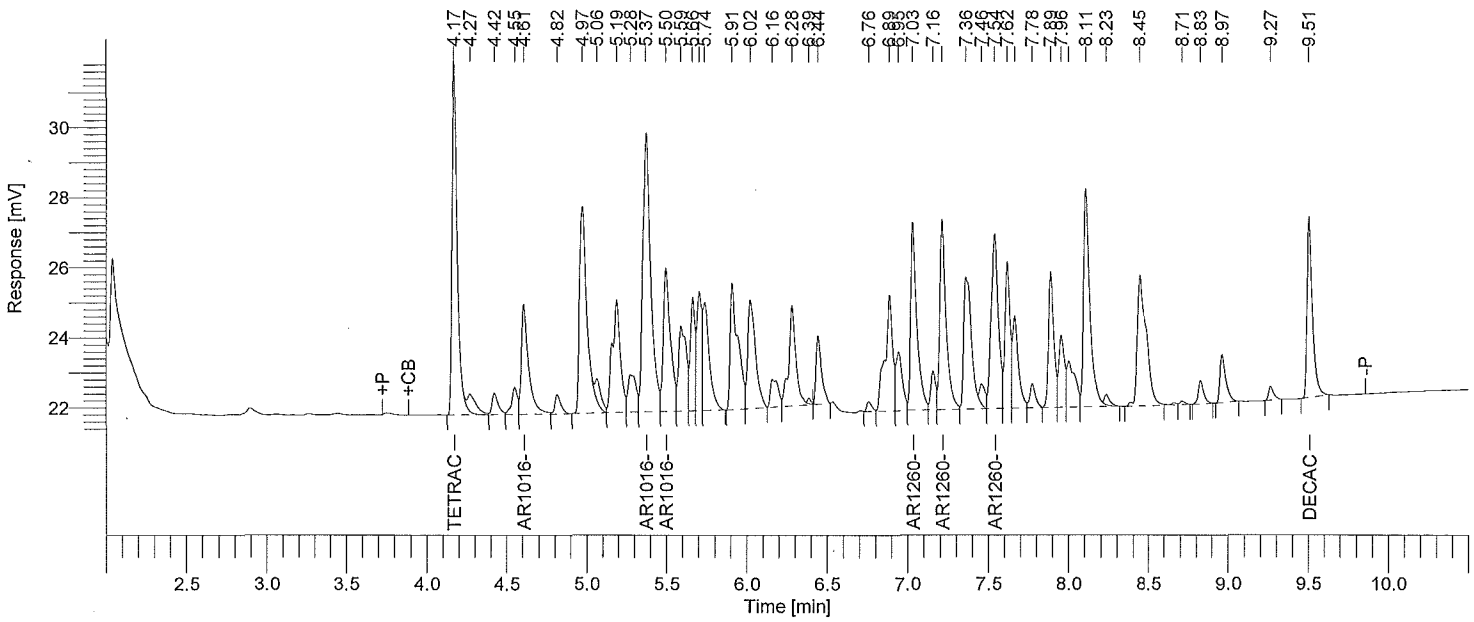

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM ARO CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.17	Tetrachloro-m-xylene	23018	0.0201845	0.0201845	0.0200000	100.9
4.61	AR1016-1	9712	0.3887411	0.3887411	0.4000000	97.2
5.37	AR1016-2	27333	0.3940732	0.3940732	0.4000000	98.5
5.50	AR1016-3	12710	0.4073266	0.4073266	0.4000000	101.8
7.03	AR1260-1	14223	0.3736885	0.3736885	0.4000000	93.4
7.21	AR1260-2	14511	0.3742336	0.3742336	0.4000000	93.6
7.54	AR1260-3	15295	0.3805646	0.3805646	0.4000000	95.1
9.51	Decachlorobiphenyl	12016	0.0404705	0.0404705	0.0400000	101.2

All analytes <= to +/-15% opening CCV, <=+/-50% closing CCV.

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:15:00
Operator	: borges	Sample Name	: AR16603C2
Sample Number	: 61	Study	: 28335
AutoSampler	: HP7673A	Rack/Vial	: 0/61
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/18/2015 09:55:35	Dilution Factor	: 1.00
		Cycle	: 3

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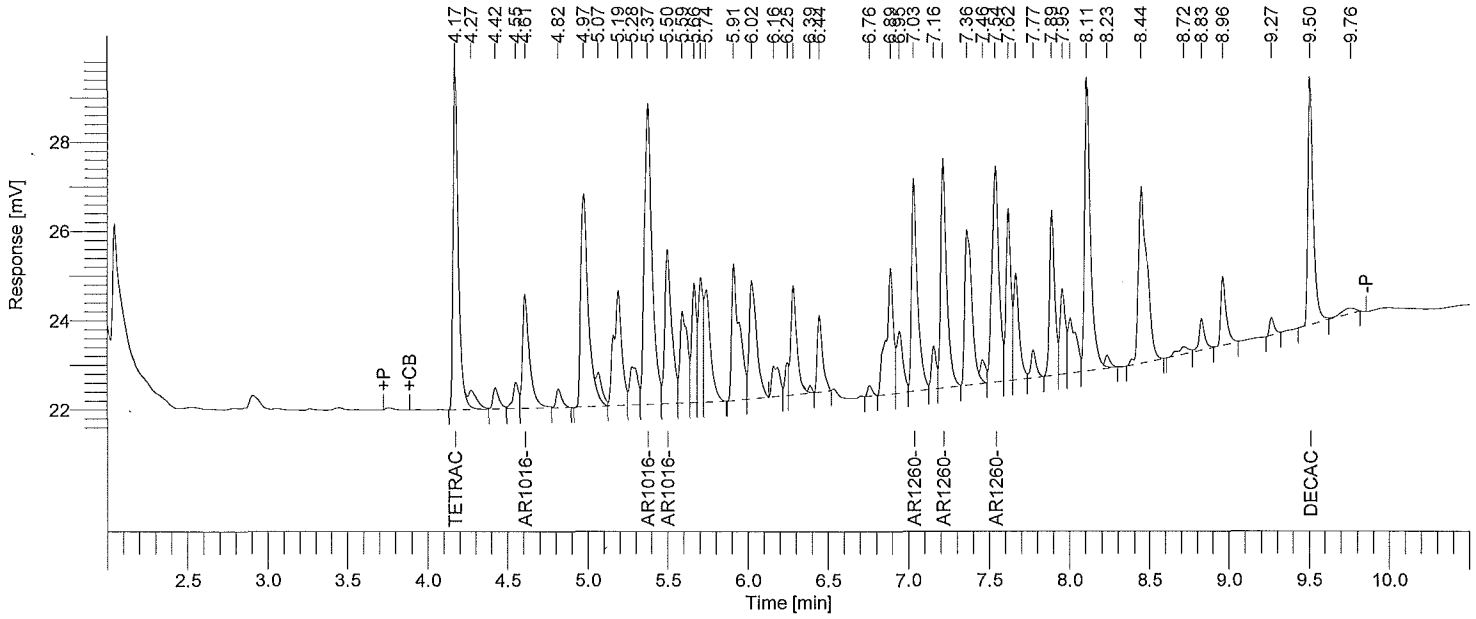

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM ARO CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.17	Tetrachloro-m-xylene	17655	0.0154818	0.0154818	0.0200000	77.4
4.61	AR1016-1	7542	0.3018891	0.3018891	0.4000000	75.5
5.37	AR1016-2	22680	0.3269846	0.3269846	0.4000000	81.7
5.50	AR1016-3	10383	0.3327670	0.3327670	0.4000000	83.2
7.03	AR1260-1	12220	0.3210708	0.3210708	0.4000000	80.3
7.21	AR1260-2	12887	0.3323461	0.3323461	0.4000000	83.1
7.54	AR1260-3	14274	0.3551435	0.3551435	0.4000000	88.8
9.50	Decachlorobiphenyl	12710	0.0428084	0.0428084	0.0400000	107.0

All analytes <= to +/-15% opening CCV, <=+/-50% closing CCV.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ABLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 451343

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20150617A037,20150617B037

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U
37324-23-5	Aroclor-1262	33.	U
11100-14-4	Aroclor-1268	33.	U

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:08:51
Operator	: borges	Sample Name	: 451343
Sample Number	: 37	Study	: ABLKS1
AutoSampler	: HP7673A	Rack/Vial	: 0/37
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 03:11:46	Cycle	: 36

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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
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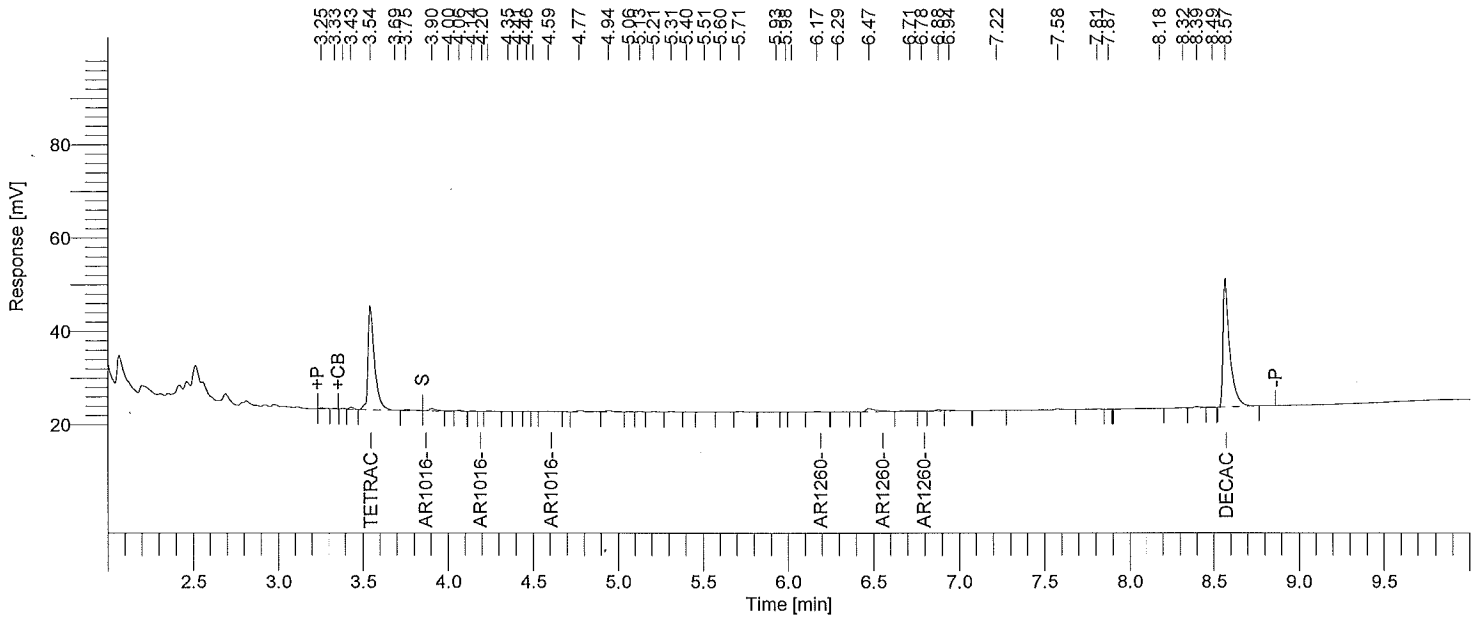

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.54	Tetrachloro-m-xylene	57789	0.02699327	1	10	0.03000	1.000	1.6667	8.99776	20.00	45.0
3.90	AR1016-1	1414	0.03171667	1	10	0.03000	1.000	33.3333	10.57222	0.00	------
4.20	AR1016-2	113	1.3124e-03	1	10	0.03000	1.000	33.3333	0.43745	0.00	------
4.59	AR1016-3	278	1.7444e-03	1	10	0.03000	1.000	33.3333	0.58148	0.00	------
6.17	AR1260-1	305	3.4520e-03	1	10	0.03000	1.000	33.3333	1.15065	0.00	------
6.55	AR1260-2	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	------
6.78	AR1260-3	61	1.0877e-03	1	10	0.03000	1.000	33.3333	0.36258	0.00	------
8.57	Decachlorobiphenyl	73964	0.07341167	1	10	0.03000	1.000	3.3333	24.47056	40.00	61.2

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:10:04
Operator	: borges	Sample Name	: 451343
Sample Number	: 37	Study	: ABLKS1
AutoSampler	: HP7673A	Rack/Vial	: 0/37
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 03:28:10	Cycle	: 37

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_037.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_037.rst
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Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_037.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
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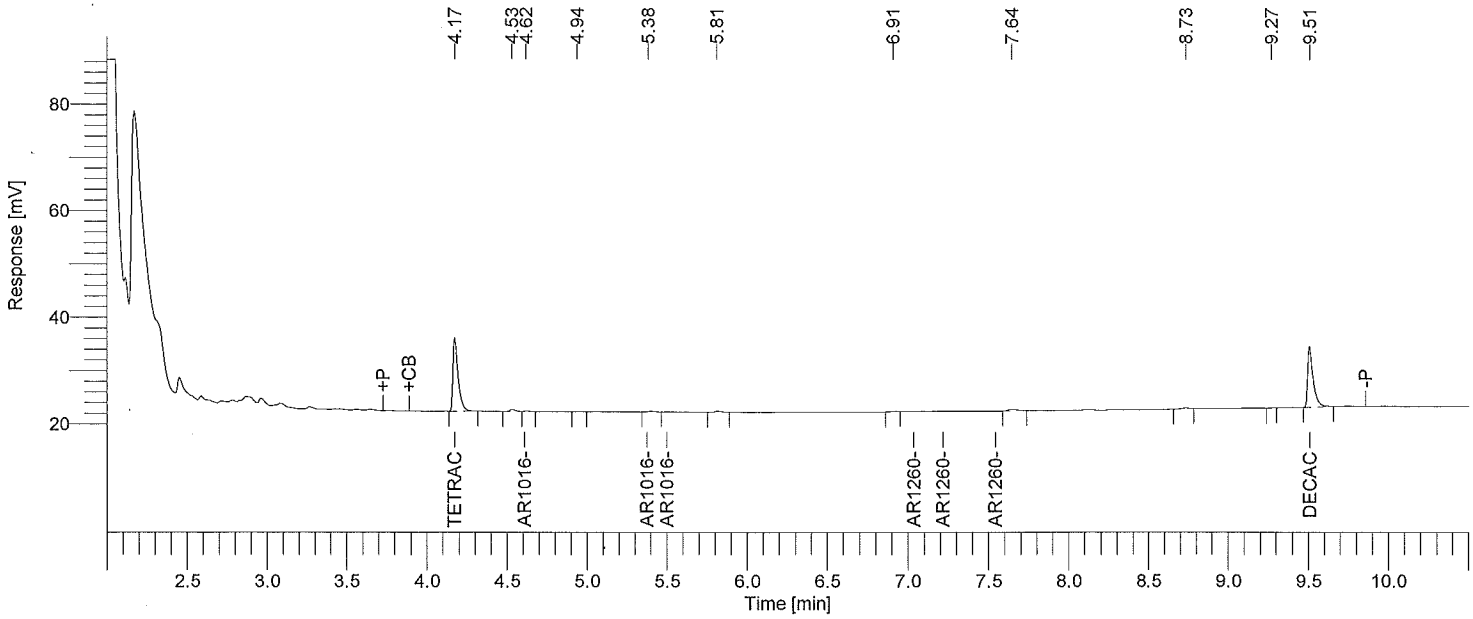

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	30601	0.02683432	1	10	0.03000	1.000	1.6667	8.94477	20.00	44.7
4.62	AR1016-1	345	0.01382833	1	10	0.03000	1.000	33.3333	4.60944	0.00	------
5.38	AR1016-2	550	7.9338e-03	1	10	0.03000	1.000	33.3333	2.64460	0.00	------
5.50	AR1016-3	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
7.04	AR1260-1	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
7.21	AR1260-2	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
7.54	AR1260-3	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
9.51	Decachlorobiphenyl	26913	0.09064572	1	10	0.03000	1.000	3.3333	30.21524	40.00	75.5

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AIBLKB1(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: AIBLKB1

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20150617A016

% Moisture: 0.0 Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 06/17/2015

Injection Volume: 2.0 (uL) GPC Factor: Dilution Factor: 1.0

GPC Cleanup: (Y/N) pH: Sulfur Cleanup: (Y/N)

Acid Cleanup: (Y/N)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:29
Operator	: borges	Sample Name	: AIBLKB1
Sample Number	: 16	Study	: 28316
AutoSampler	: HP7673A	Rack/Vial	: 0/16
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/17/2015 21:32:12	Dilution Factor	: 1.00
		Cycle	: 15

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_016.raw
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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_016.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_016.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_instrument blank_a.rpt
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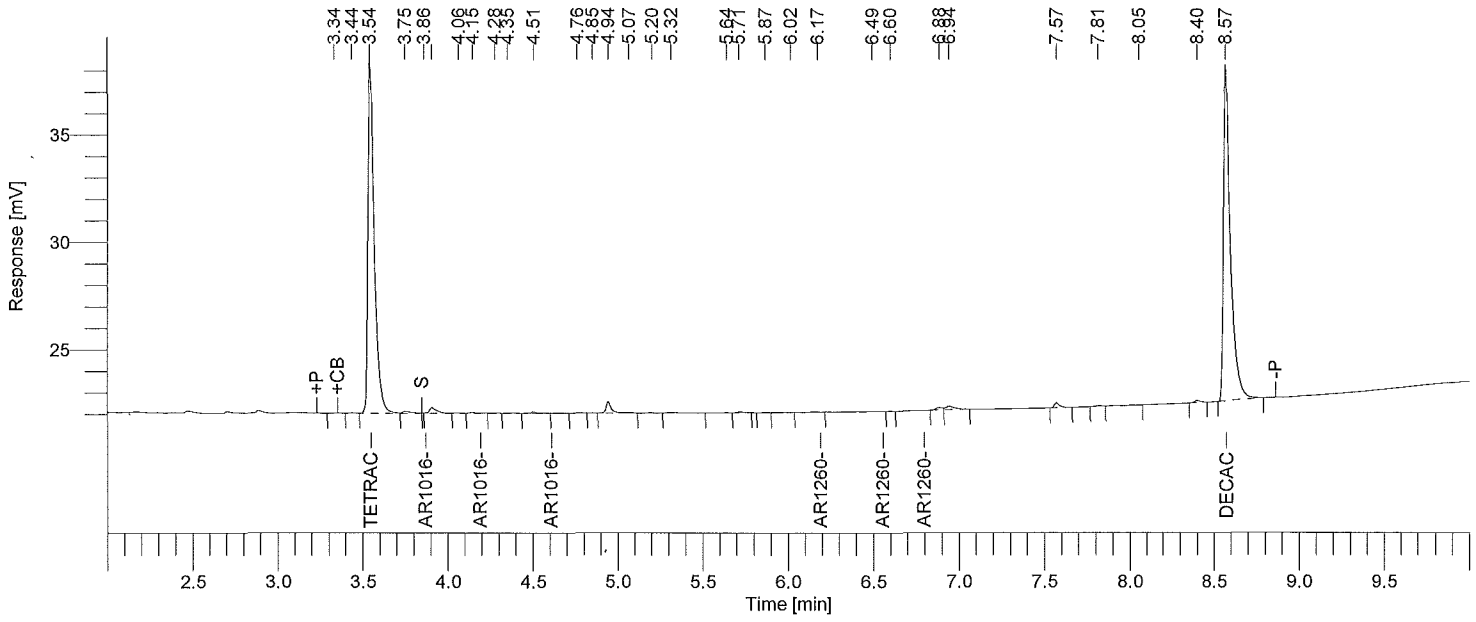

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
3.54	Tetrachloro-m-xylene	41654	0.019456	1	10	1.000	1.000	0.050000	0.194565	0.2000	97.3
3.86	AR1016-1	15	3.46e-04	1	10	1.000	1.000	1.000000	0.003455	0.0000	-----
4.15	AR1016-2	171	1.99e-03	1	10	1.000	1.000	1.000000	0.019891	0.0000	-----
4.61	AR1016-3	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.17	AR1260-1	129	1.47e-03	1	10	1.000	1.000	1.000000	0.014652	0.0000	-----
6.60	AR1260-2	31	5.97e-04	1	10	1.000	1.000	1.000000	0.005974	0.0000	-----
6.80	AR1260-3	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.57	Decachlorobiphenyl	43240	0.042916	1	10	1.000	1.000	0.100000	0.429164	0.4000	107.3

All analytes <CRQL.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AIBLKC1(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: AIBLKC1

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20150617A060

% Moisture: 0.0 Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 06/18/2015

Injection Volume: 2.0 (uL) GPC Factor: Dilution Factor: 1.0

GPC Cleanup: (Y/N) pH: Sulfur Cleanup: (Y/N)

Acid Cleanup: (Y/N)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:32
Operator	: borges	Sample Name	: AIBLKC1
Sample Number	: 60	Study	: 28316
AutoSampler	: HP7673A	Rack/Vial	: 0/60
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 09:23:14	Cycle	: 1

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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_instrument blank_a.rpt
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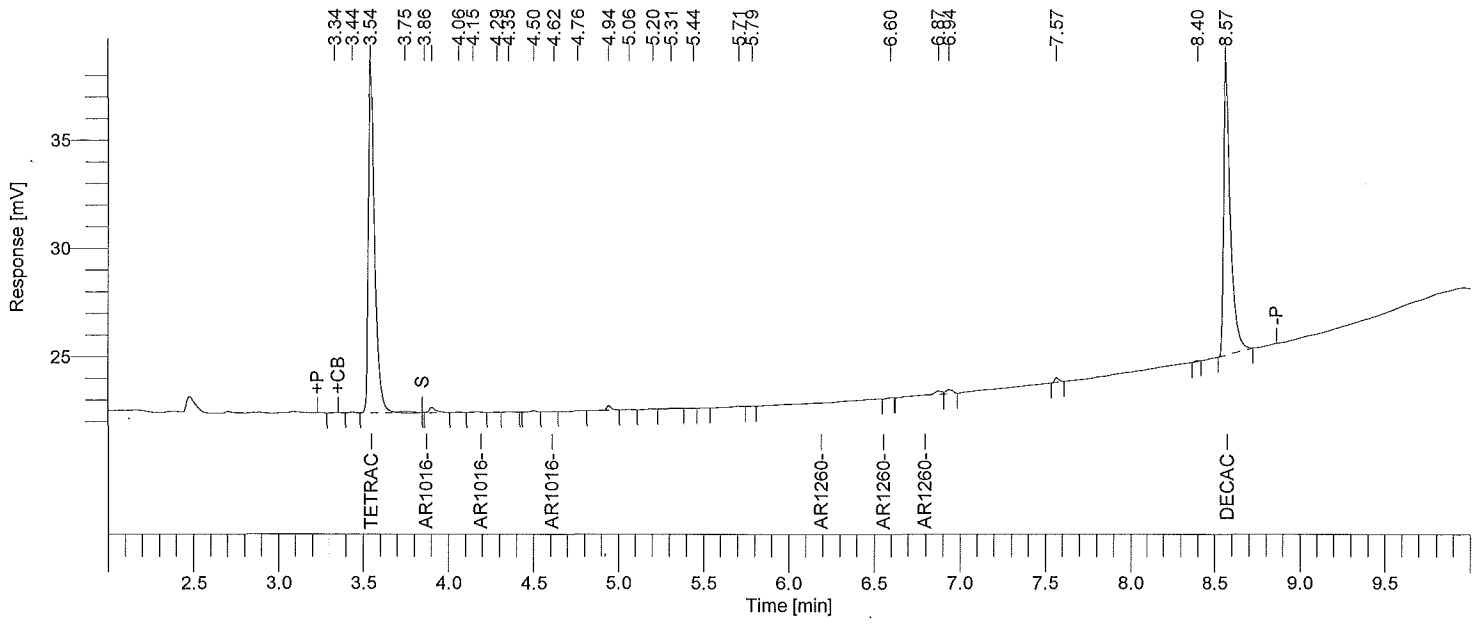

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
3.54	Tetrachloro-m-xylene	41519	0.019394	1	10	1.000	1.000	0.050000	0.193937	0.2000	97.0
3.86	AR1016-1	13	2.86e-04	1	10	1.000	1.000	1.000000	0.002857	0.0000	-----
4.15	AR1016-2	125	1.45e-03	1	10	1.000	1.000	1.000000	0.014516	0.0000	-----
4.62	AR1016-3	12	7.54e-05	1	10	1.000	1.000	1.000000	0.000754	0.0000	-----
6.19	AR1260-1	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.60	AR1260-2	75	1.44e-03	1	10	1.000	1.000	1.000000	0.014411	0.0000	-----
6.80	AR1260-3	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.57	Decachlorobiphenyl	35978	0.035709	1	10	1.000	1.000	0.100000	0.357087	0.4000	89.3

All analytes <CRQL.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AIBLKB2(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: AIBLKB2

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20150617B016

% Moisture: 0.0 Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 06/17/2015

Injection Volume: 2.0 (uL) GPC Factor: Dilution Factor: 1.0

GPC Cleanup: (Y/N) pH: Sulfur Cleanup: (Y/N)

Acid Cleanup: (Y/N)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:56
Operator	: borges	Sample Name	: AIBLKB2
Sample Number	: 16	Study	: 28316
AutoSampler	: HP7673A	Rack/Vial	: 0/16
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/17/2015 21:48:19	Cycle	: 16

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_016.raw
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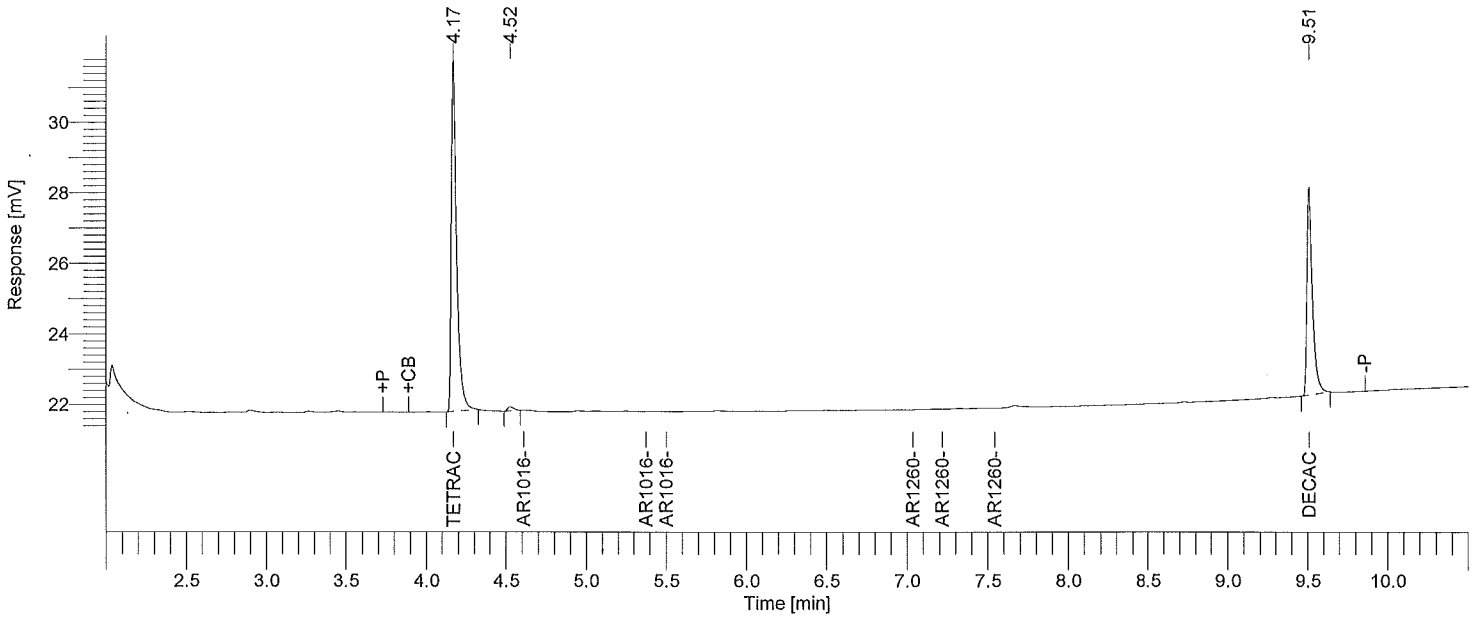

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
4.17	Tetrachloro-m-xylene	22864	0.020049	1	10	1.000	1.000	0.050000	0.200494	0.2000	100.2
4.61	AR1016-1	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.38	AR1016-2	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.50	AR1016-3	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.04	AR1260-1	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.21	AR1260-2	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.54	AR1260-3	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.51	Decachlorobiphenyl	14018	0.047213	1	10	1.000	1.000	0.100000	0.472135	0.4000	118.0

All analytes <CRQL.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AIBLKC2(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: AIBLKC2

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20150617B060

% Moisture: 0.0 Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 06/18/2015

Injection Volume: 2.0 (uL) GPC Factor: Dilution Factor: 1.0

GPC Cleanup: (Y/N) pH: Sulfur Cleanup: (Y/N)

Acid Cleanup: (Y/N)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:14:59
Operator	: borges	Sample Name	: AIBLKC2
Sample Number	: 60	Study	: 28316
AutoSampler	: HP7673A	Rack/Vial	: 0/60
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/18/2015 09:39:23	Dilution Factor	: 1.00
		Cycle	: 2

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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_instrument blank_b.rpt
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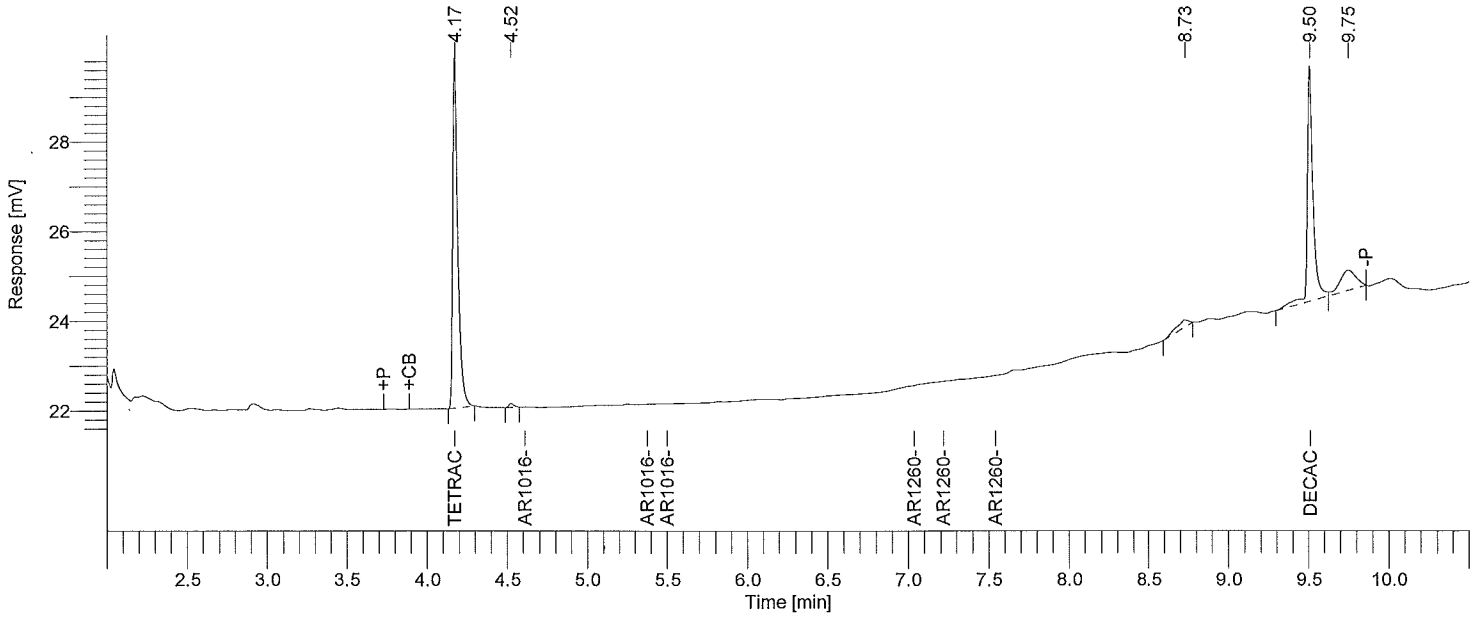

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
4.17	Tetrachloro-m-xylene	17300	0.015171	1	10	1.000	1.000	0.050000	0.151709	0.2000	75.9
4.61	AR1016-1	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.38	AR1016-2	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.50	AR1016-3	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.04	AR1260-1	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.21	AR1260-2	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.54	AR1260-3	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.50	Decachlorobiphenyl	13085	0.044074	1	10	1.000	1.000	0.100000	0.440738	0.4000	110.2

All analytes <CRQL.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M91MS(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725012

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 20150617A050

% Moisture: 8.4 Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	120	
11104-28-2	Aroclor-1221	36.	U
11141-16-5	Aroclor-1232	36.	U
53469-21-9	Aroclor-1242	36.	U
12672-29-6	Aroclor-1248	36.	U
11097-69-1	Aroclor-1254	36.	U
11096-82-5	Aroclor-1260	110	
37324-23-5	Aroclor-1262	36.	U
11100-14-4	Aroclor-1268	36.	U

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:09:16
Operator	: borges	Sample Name	: 1515725012
Sample Number	: 50	Study	: F9M91MS
AutoSampler	: HP7673A	Rack/Vial	: 0/50
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 06:41:36	Cycle	: 49

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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_050.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_050.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
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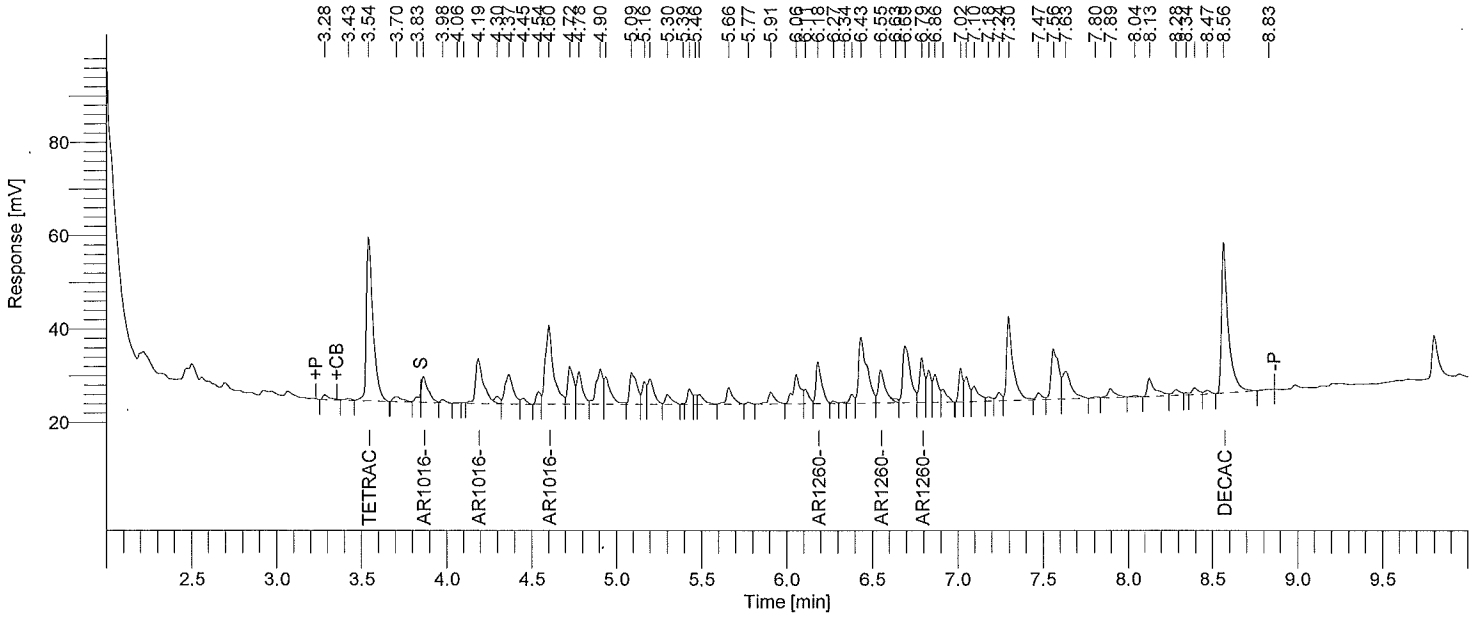

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.54	Tetrachloro-m-xylene	92544	0.04322767	1	10	0.03030	0.990	1.6502	14.26656	19.80	72.0
3.86	AR1016-1	14431	0.32360747	1	10	0.03030	0.990	33.0033	106.80115	0.00	------
4.19	AR1016-2	30907	0.35960138	1	10	0.03030	0.990	33.0033	118.68032	0.00	------
4.60	AR1016-3	56289	0.35383365	1	10	0.03030	0.990	33.0033	116.77678	0.00	------
6.18	AR1260-1	20439	0.23141695	1	10	0.03030	0.990	33.0033	76.37523	0.00	------
6.55	AR1260-2	19964	0.38447209	1	10	0.03030	0.990	33.0033	126.88848	0.00	------
6.79	AR1260-3	18909	0.33570836	1	10	0.03030	0.990	33.0033	110.79484	0.00	------
8.56	Decachlorobiphenyl	85942	0.08529990	1	10	0.03030	0.990	3.3003	28.15178	39.60	71.1

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M91MS(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725012

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 20150617B050

% Moisture: 8.4 Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	120	
11104-28-2	Aroclor-1221	36.	U
11141-16-5	Aroclor-1232	36.	U
53469-21-9	Aroclor-1242	36.	U
12672-29-6	Aroclor-1248	36.	U
11097-69-1	Aroclor-1254	36.	U
11096-82-5	Aroclor-1260	140	
37324-23-5	Aroclor-1262	36.	U
11100-14-4	Aroclor-1268	36.	U

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:10:24
Operator	: borges	Sample Name	: 1515725012
Sample Number	: 50	Study	: F9M91MS
AutoSampler	: HP7673A	Rack/Vial	: 0/50
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 06:57:38	Cycle	: 50

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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_050.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_050.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
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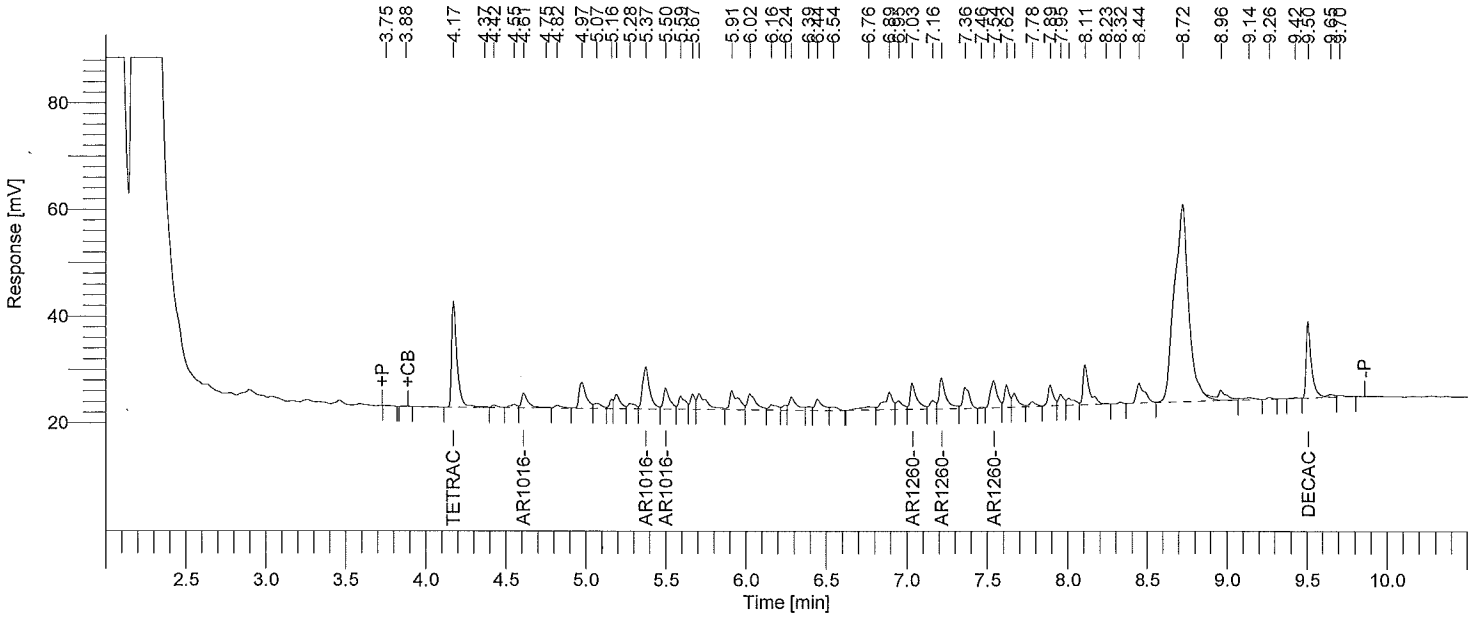

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	46180	0.04049614	1	10	0.03030	0.990	1.6502	13.36506	19.80	67.5
4.61	AR1016-1	7691	0.30781968	1	10	0.03030	0.990	33.0033	101.59065	0.00	------
5.37	AR1016-2	24069	0.34701729	1	10	0.03030	0.990	33.0033	114.52716	0.00	------
5.50	AR1016-3	10634	0.34080616	1	10	0.03030	0.990	33.0033	112.47728	0.00	------
7.03	AR1260-1	13748	0.36121111	1	10	0.03030	0.990	33.0033	119.21159	0.00	------
7.21	AR1260-2	16546	0.42672930	1	10	0.03030	0.990	33.0033	140.83475	0.00	------
7.54	AR1260-3	14637	0.36417214	1	10	0.03030	0.990	33.0033	120.18883	0.00	------
9.50	Decachlorobiphenyl	33253	0.11200195	1	10	0.03030	0.990	3.3003	36.96434	39.60	93.3

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M91MSD(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725013

Sample wt/vol: 30.5 (g/mL) g Lab File ID: 20150617A051

% Moisture: 8.4 Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	120	
11104-28-2	Aroclor-1221	35.	U
11141-16-5	Aroclor-1232	35.	U
53469-21-9	Aroclor-1242	35.	U
12672-29-6	Aroclor-1248	35.	U
11097-69-1	Aroclor-1254	35.	U
11096-82-5	Aroclor-1260	130	
37324-23-5	Aroclor-1262	35.	U
11100-14-4	Aroclor-1268	35.	U

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:09:17
Operator	: borges	Sample Name	: 1515725013
Sample Number	: 51	Study	: F9M91MSD
AutoSampler	: HP7673A	Rack/Vial	: 0/51
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 06:57:38	Cycle	: 50

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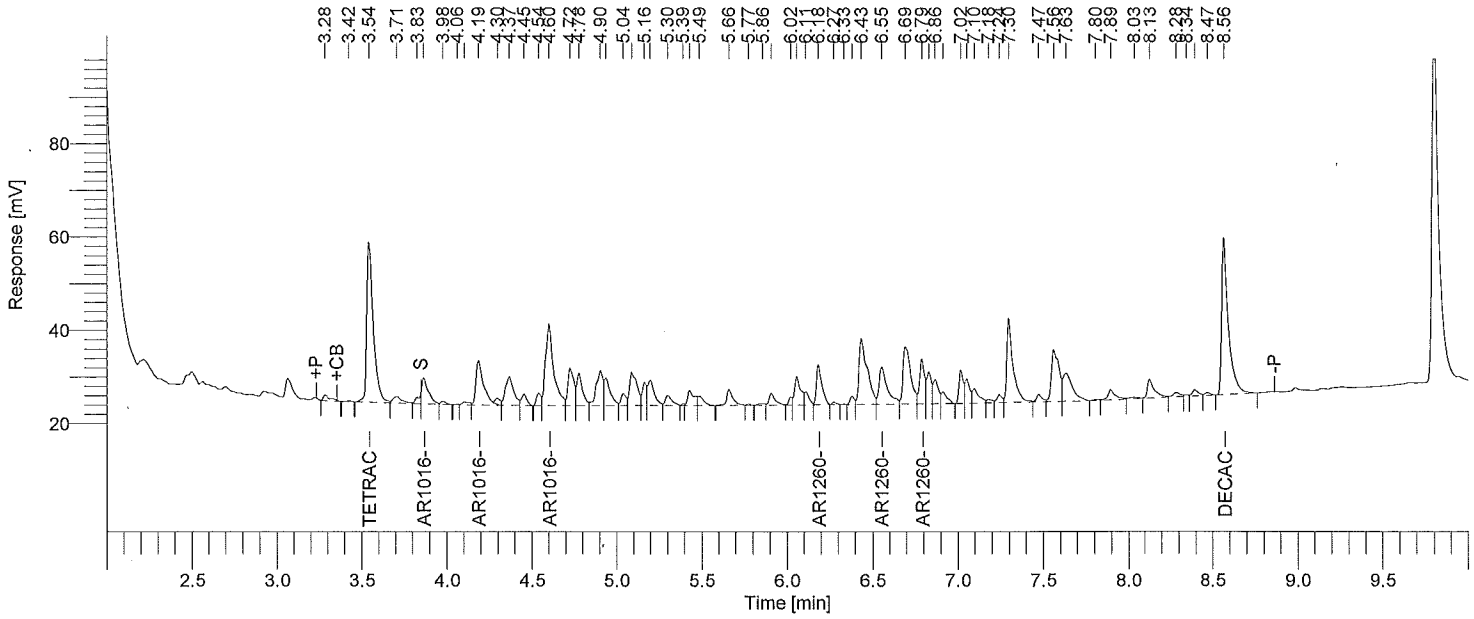

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.54	Tetrachloro-m-xylene	91901	0.04292702	1	10	0.03047	0.985	1.6410	14.08829	19.69	71.5
3.86	AR1016-1	14632	0.32811904	1	10	0.03047	0.985	32.8192	107.68593	0.00	------
4.19	AR1016-2	29646	0.34492728	1	10	0.03047	0.985	32.8192	113.20226	0.00	------
4.60	AR1016-3	57971	0.36440974	1	10	0.03047	0.985	32.8192	119.59624	0.00	------
6.18	AR1260-1	19210	0.21750261	1	10	0.03047	0.985	32.8192	71.38254	0.00	------
6.55	AR1260-2	27016	0.52026922	1	10	0.03047	0.985	32.8192	170.74802	0.00	------
6.79	AR1260-3	18771	0.33326394	1	10	0.03047	0.985	32.8192	109.37445	0.00	------
8.56	Decachlorobiphenyl	88834	0.08817040	1	10	0.03047	0.985	3.2819	28.93679	39.38	73.5

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M91MSD(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515725013

Sample wt/vol: 30.5 (g/mL) g Lab File ID: 20150617B051

% Moisture: 8.4 Decanted: (Y/N) N Date Received: 06/05/2015

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	130	
11104-28-2	Aroclor-1221	35.	U
11141-16-5	Aroclor-1232	35.	U
53469-21-9	Aroclor-1242	35.	U
12672-29-6	Aroclor-1248	35.	U
11097-69-1	Aroclor-1254	35.	U
11096-82-5	Aroclor-1260	130	
37324-23-5	Aroclor-1262	35.	U
11100-14-4	Aroclor-1268	35.	U

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:10:25
Operator	: borges	Sample Name	: 1515725013
Sample Number	: 51	Study	: F9M91MSD
AutoSampler	: HP7673A	Rack/Vial	: 0/51
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 07:13:58	Cycle	: 51

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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
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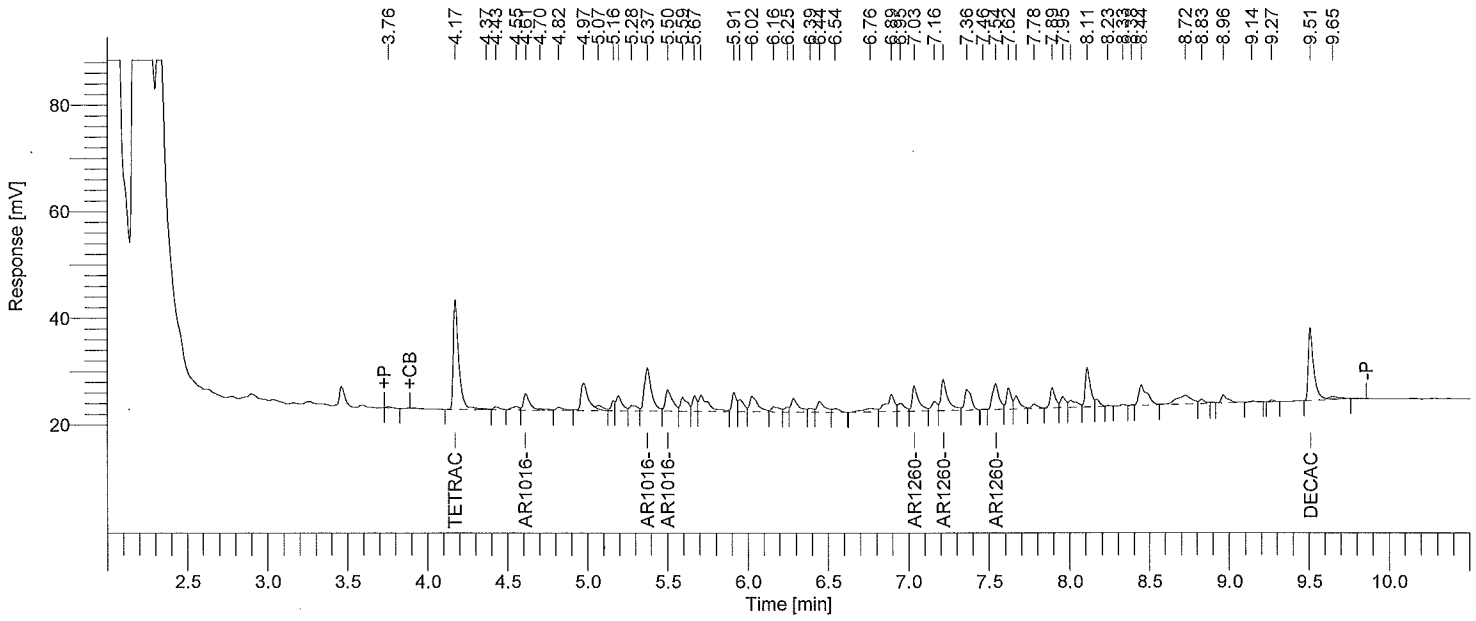

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	48077	0.04215890	1	10	0.03047	0.985	1.6410	13.83620	19.69	70.3
4.61	AR1016-1	8165	0.32680091	1	10	0.03047	0.985	32.8192	107.25333	0.00	------
5.37	AR1016-2	24759	0.35696982	1	10	0.03047	0.985	32.8192	117.15452	0.00	------
5.50	AR1016-3	12341	0.39549873	1	10	0.03047	0.985	32.8192	129.79939	0.00	------
7.03	AR1260-1	13001	0.34157374	1	10	0.03047	0.985	32.8192	112.10165	0.00	------
7.21	AR1260-2	17113	0.44133878	1	10	0.03047	0.985	32.8192	144.84371	0.00	------
7.54	AR1260-3	13634	0.33922189	1	10	0.03047	0.985	32.8192	111.32980	0.00	------
9.51	Decachlorobiphenyl	31759	0.10696756	1	10	0.03047	0.985	3.2819	35.10586	39.38	89.1

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCSS1(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 451345

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20150617A038

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	21.	J
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	25.	J
37324-23-5	Aroclor-1262	33.	U
11100-14-4	Aroclor-1268	33.	U

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:08:53
Operator	: borges	Sample Name	: 451345
Sample Number	: 38	Study	: ALCSS1
AutoSampler	: HP7673A	Rack/Vial	: 0/38
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/18/2015 03:28:10	Dilution Factor	: 1.00
		Cycle	: 37

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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_038.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150617\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617A_038.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_lcs_a.rpt
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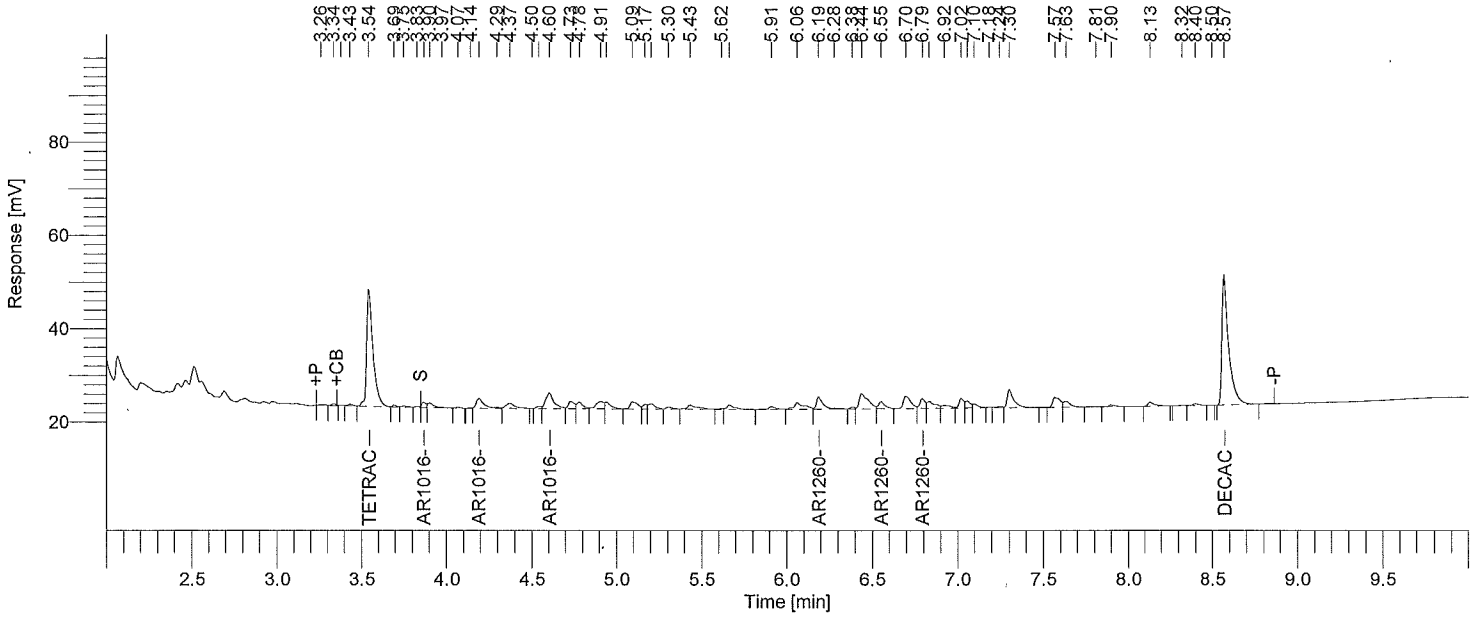

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL LCS REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Spike Targ ug/kg	Rec %
3.54	Tetrachloro-m-xylene	63912	0.02985341	1	10	0.030	1.000	1.6667	9.95114	20.00	49.8
3.87	AR1016-1	1949	0.04371356	1	10	0.030	1.000	33.3333	14.57119	33.33	43.7
4.19	AR1016-2	6591	0.07668557	1	10	0.030	1.000	33.3333	25.56186	33.33	76.7
4.60	AR1016-3	11084	0.06967609	1	10	0.030	1.000	33.3333	23.22536	33.33	69.7
6.19	AR1260-1	6742	0.07633870	1	10	0.030	1.000	33.3333	25.44623	33.33	76.3
6.55	AR1260-2	3815	0.07347472	1	10	0.030	1.000	33.3333	24.49157	33.33	73.5
6.79	AR1260-3	4344	0.07711823	1	10	0.030	1.000	33.3333	25.70608	33.33	77.1
8.57	Decachlorobiphenyl	74612	0.07405446	1	10	0.030	1.000	3.3333	24.68482	40.00	61.7

Surrogates 30 to 150%. g-BHC, Endrin, Endosulfan sulfate 50-120%. Dieldren, g-Chlordane 30-130%. Heptachlor Epoxide, DDE 50-150%. Aroclors 50-150%.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCSS1(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9K00

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 451345

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20150617B038

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 06/12/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/18/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	22.	J
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	24.	J
37324-23-5	Aroclor-1262	33.	U
11100-14-4	Aroclor-1268	33.	U

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:10:06
Operator	: borges	Sample Name	: 451345
Sample Number	: 38	Study	: ALCSS1
AutoSampler	: HP7673A	Rack/Vial	: 0/38
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 03:44:16	Cycle	: 38

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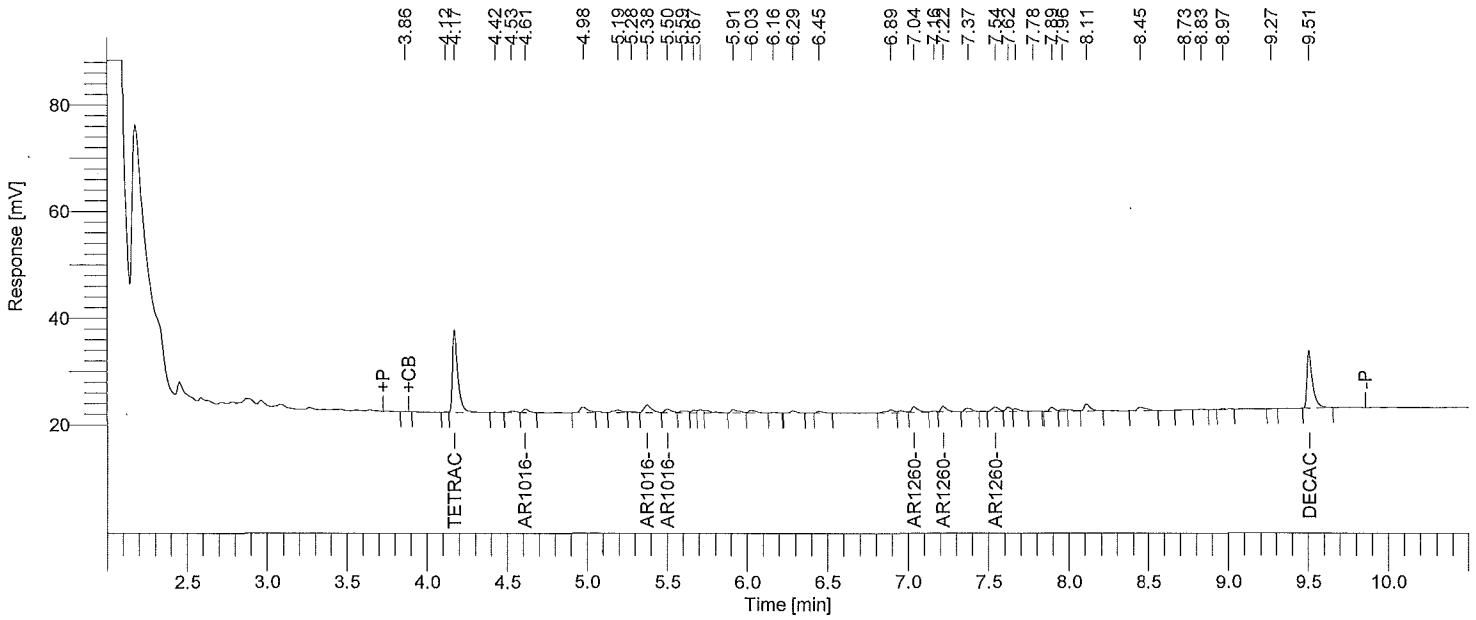


Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL LCS REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Spike Targ ug/kg	Rec %
4.17	Tetrachloro-m-xylene	35167	0.03083823	1	10	0.03000	1.000	1.6667	10.27941	20.00	51.4
4.61	AR1016-1	1652	0.06612812	1	10	0.03000	1.000	33.3333	22.04271	33.33	66.1
5.38	AR1016-2	4769	0.06875787	1	10	0.03000	1.000	33.3333	22.91929	33.33	68.8
5.50	AR1016-3	2090	0.06698887	1	10	0.03000	1.000	33.3333	22.32962	33.33	67.0
7.04	AR1260-1	2756	0.07239790	1	10	0.03000	1.000	33.3333	24.13263	33.33	72.4
7.22	AR1260-2	2862	0.07380519	1	10	0.03000	1.000	33.3333	24.60173	33.33	73.8
7.54	AR1260-3	2679	0.06666306	1	10	0.03000	1.000	33.3333	22.22102	33.33	66.7
9.51	Decachlorobiphenyl	25587	0.08618083	1	10	0.03000	1.000	3.3333	28.72694	40.00	71.8

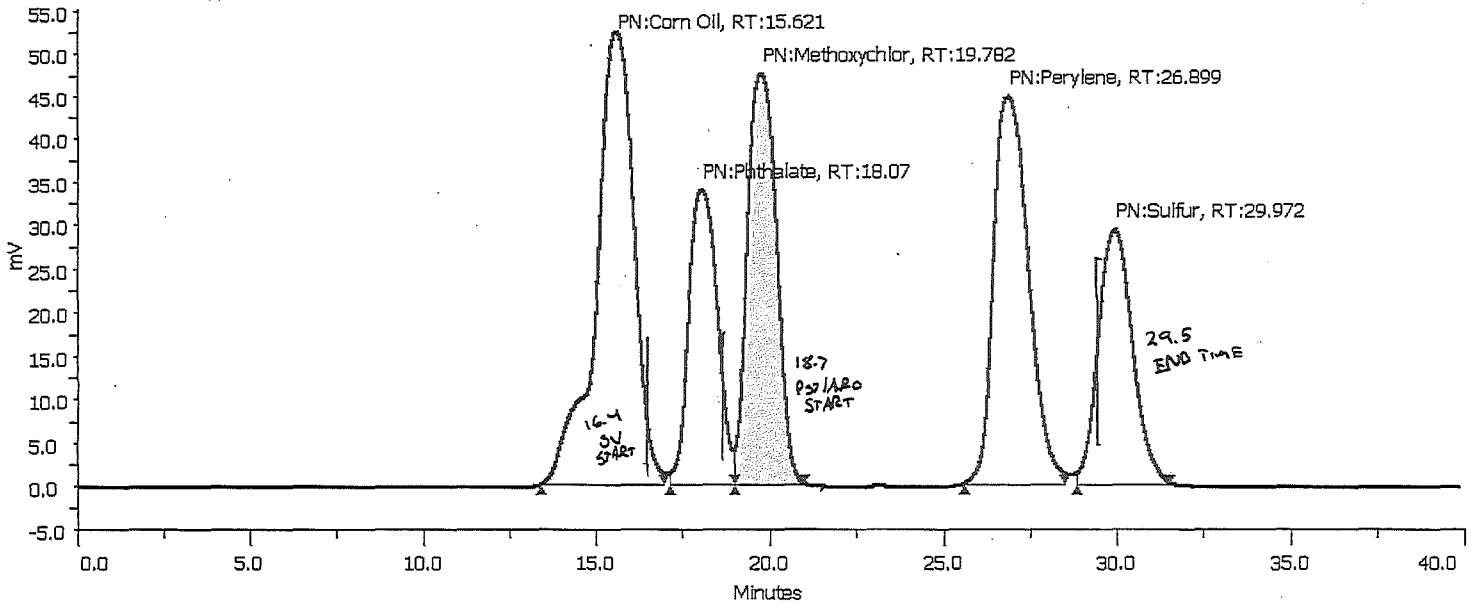
Surrogates 30 to 150%. g-BHC, Endrin, Endosulfan sulfate 50-120%. Dieldren, g-Chlordane 30-130%. Heptachlor Epoxide, DDE 50-150%. Aroclors 50-150%.

Graph

Sample Name	GPC 6 Weekly
Application Name	ALS GPC Methods Small FC (Administrator)
Method Name	UV Calibration Method Small
Configuration Name	GPC System With Detector
Version	7
Data Instrument Name	112 Detector Signal
Data Channel Name	254nm
Notes	
Injection Number	3

GPC 6 TRACE
SOMO 1.2/2.2
6/10/15
Lyle Edwards
STD # 195 WS 38823

App: ALS GPC Methods Small FC, Run: 06102015-144323 @ 6/10/2015 2:43:25 PM, Method: UV Calibration Method Small, Iter: 3, Inj: 3



Sample Table

Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC 6 Weekly	Sample Zone->1	Corn Oil	13.419	15.621	6599795	52.42	0	91.005
3	GPC 6 Weekly	Sample Zone->1	Phthalate	17.143	18.07	3232003.3333	33.78	91.005	89.251
3	GPC 6 Weekly	Sample Zone->1	Methoxychlor	19.002	19.782	4590595	47.46	89.251	292.266
3	GPC 6 Weekly	Sample Zone->1	Perylene	25.64	26.899	5200915.4167	44.72	292.266	110.175
3	GPC 6 Weekly	Sample Zone->1	Sulfur	28.846	29.972	3357179.1667	29.11	110.175	0

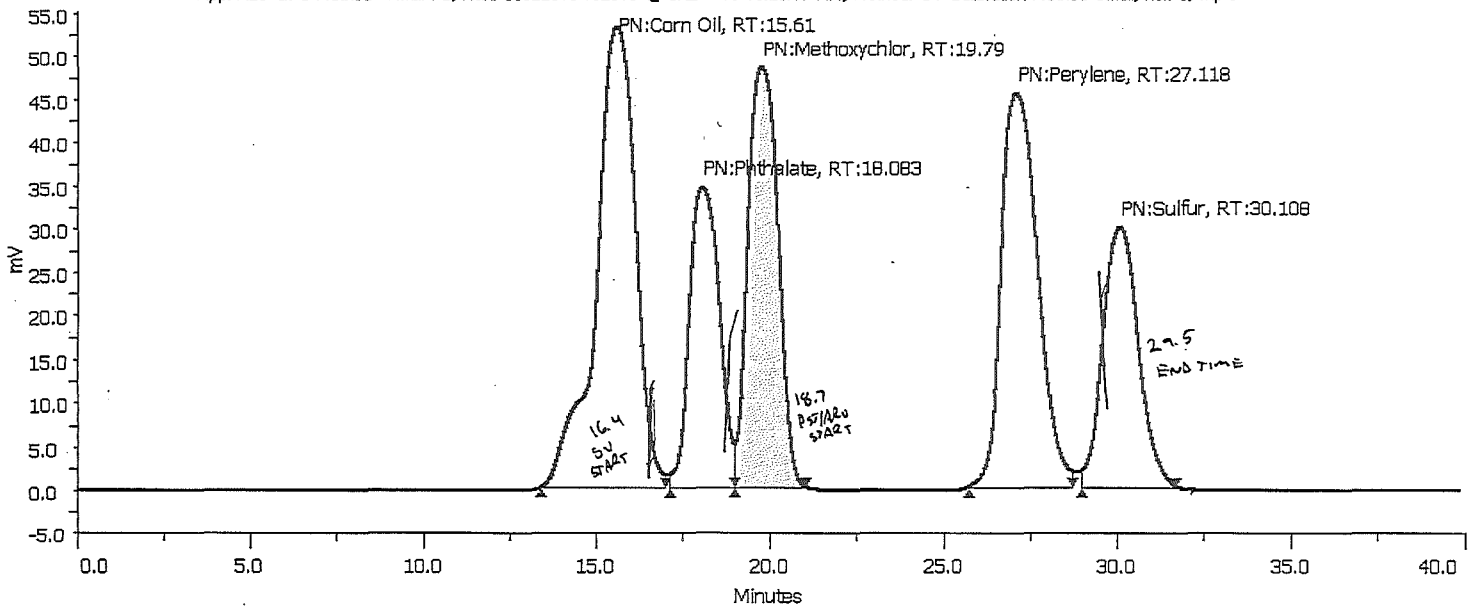
Run Variables

Graph

Sample Name	GPC 6 Weekly
Application Name	ALS GPC Methods Small FC (Administrator)
Method Name	UV Calibration Method Small
Configuration Name	GPC System With Detector
Version	7
Data Instrument Name	112 Detector Signal
Data Channel Name	254nm
Notes	
Injection Number	3

GPC 6 TRACE
Somo 1.2/2.2
6/2/15
Lyle Edwards
STD # 195WS 38823

App: ALS GPC Methods Small FC, Run: 06022015-102813 @ 6/2/2015 10:28:17 AM, Method: UV Calibration Method Small, Iter: 3, Inj: 3



Sample Table

Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC 6 Weekly	Sample Zone->1	Corn Oil	13.388	15.61	6972078.75	53.12	0	90.862
3	GPC 6 Weekly	Sample Zone->1	Phthalate	17.154	18.083	3442194.1667	34.4	90.862	88.181
3	GPC 6 Weekly	Sample Zone->1	Methoxychlor	19.022	19.79	4877990.8333	48.33	88.181	293.687
3	GPC 6 Weekly	Sample Zone->1	Perylene	25.768	27.118	5509891.25	45.3	293.687	104.82
3	GPC 6 Weekly	Sample Zone->1	Sulfur	28.982	30.108	3573543.3333	29.85	104.82	0

Run Variables

Software Version	: 6.3.1.0504	Date	: 06/18/2015 17:10:03
Operator	: borges	Sample Name	: GPC60614
Sample Number	: 36	Study	: GPCBLK1
AutoSampler	: HP7673A	Rack/Vial	: 0/36
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/18/2015 03:11:46	Cycle	: 36

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150617\20150617B_036.raw
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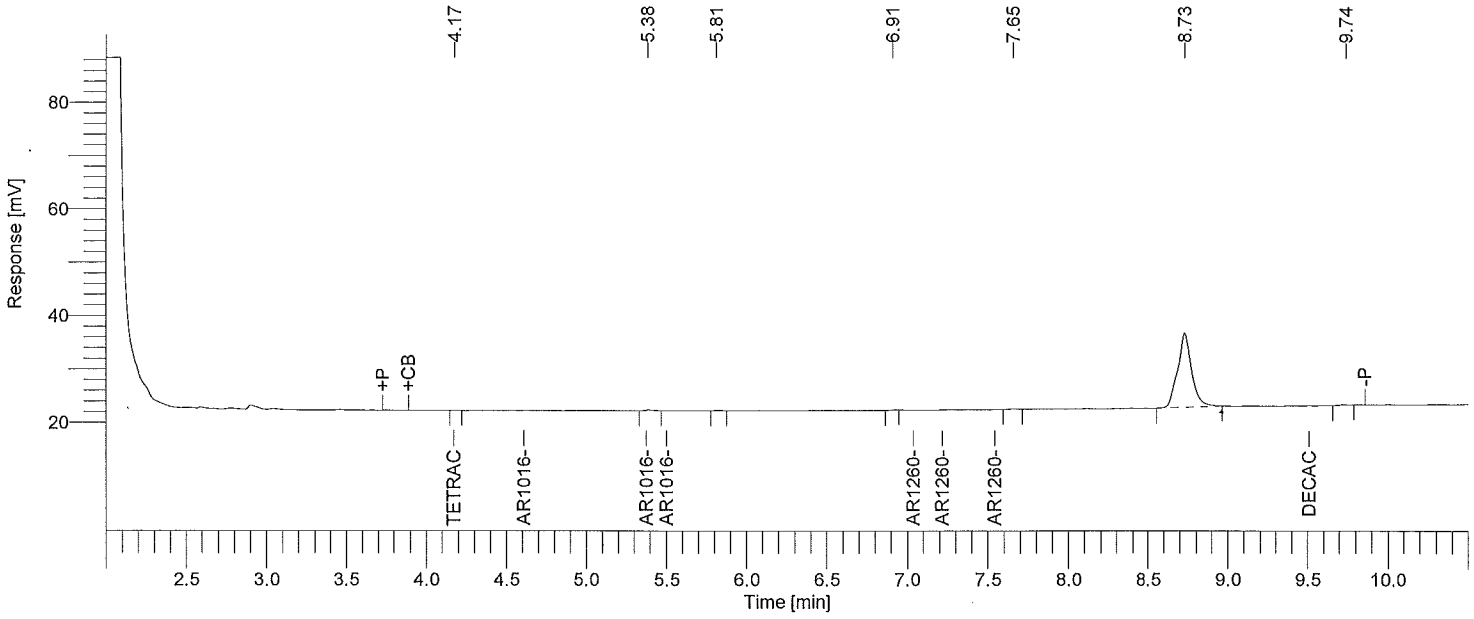

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM ARO GPC BLK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L
4.17	Tetrachloro-m-xylene	150	1.31280e-04	1	10	1.000	1.000	0.050000	0.001313
4.61	AR1016-1	0	0.000000000	1	10	1.000	1.000	--------	0.000000
5.38	AR1016-2	550	7.92668e-03	1	10	1.000	1.000	1.000000	0.079267
5.50	AR1016-3	0	0.000000000	1	10	1.000	1.000	--------	0.000000
7.04	AR1260-1	0	0.000000000	1	10	1.000	1.000	--------	0.000000
7.21	AR1260-2	0	0.000000000	1	10	1.000	1.000	--------	0.000000
7.54	AR1260-3	0	0.000000000	1	10	1.000	1.000	--------	0.000000
9.51	Decachlorobiphenyl	0	0.000000000	1	10	1.000	1.000	--------	0.000000

All analytes <CRQL.

ALS Laboratory Group GC/MS Volatile Organic Analysis			
DCL Ref ID:	Samples:	Date Received:	Date Analyzed:
1515725	19	6/5/15	6/11 & 6/13/15
Sample Matrix: Soil			
Method: EPA CLP SOM01.2 Low/Med			
Instrument: 5972-S			
Column: DB 624 75 m .530 mm			
Temp. Program: 45° C (3.5 min) 10°C /min ramp to 220°C (2.0 min). Run Time = 23.00 min.			
Carrier Gas: Helium			
Purge/Trap: OI Analytical Eclipse 4660/#10 Trap; Varian Archon Autosampler.			
Purge/Trap Conditions: Purge Time: 11 min. (0.5 min. dry purge); Desorb Time: 0.8 min. @ 190° C.			
Purge Gas: Helium			
Purge Flow: ~35 mL/min. Sample heated to 40° C.			
Trap Temp: < 35° C			
Initial Calibration Curve: The calibration curve is SCLPSS analyzed on 6-4-15.			
Initial Calibration Standards: VSTD005SS, 010SS, 050SS, 100SS, 200SS (Low Soil/Water Curve) - 27660, 28196, 28197, 28199.			
Calibration Verification Standards: VSTD050SX - 28268, 28198, 28199.			
Balance I.D.: 40090067			
All analyses meet established QC acceptance criteria. Results reported in units of ug/Kg. CQC			

ALS Laboratory Group - GC/MS Volatile Analysis
Injection Logbook
Instrument 5972-S

FILE NAME	DATE & TIME INJECTED	OP	METHOD	SPAR GER#	RUN LENGTH	DIL FAC	MATRIX	SAMPLE	(STANDARD) (SOLUTION)	ISTD #1 AREA
SU28BLK	06/04/2015 16:44	CQC	SCLPSR	1	23.11	1	SOIL	XXXXXX	VBLKS1	2585429
	COMMENTS: 2.5 uL of 28198; 2.0 uL of 27660									
SU29BFB	06/04/2015 18:46	CQC	SCLPSS	1	23.13	1	SOIL	BFBSX	50 ng BFB	0
	COMMENTS: 2.0 uL of 27660 Passed but multiplier raised.									
SU30BFB	06/04/2015 19:16	CQC	SCLPMS	2	23.14	1	SOIL	BFBMS	50 ng BFB	0
	COMMENTS: 2.0 uL of 27660									
SU31BFB	06/04/2015 19:46	CQC	SCLPSS	3	23.12	1	SOIL	BFBSS	50 ng BFB	0
	COMMENTS: 2.0 uL of 27660									
SU32S05	06/04/2015 20:18	CQC	SCLPSS	4	23.16	1	SOIL	VSTD005SS	VSTD005SS 5.0	1157727
	COMMENTS: 2.5 uL of 28196; 0.25 uL of 28197, 19; 2.0 uL									
SU33S10	06/04/2015 20:49	CQC	SCLPSS	5	23.15	1	SOIL	VSTD010SS	VSTD010SS 10 u	1201288
	COMMENTS: 2.5 uL of 28196; 0.5 uL of 28197, 19									
SU34S50	06/04/2015 21:19	CQC	SCLPSS	6	23.13	1	SOIL	VSTD050SS	VSTD050SS 50 u	1319880
	COMMENTS: 2.5 uL of 28196; 2.5 uL of 28197, 19									
SU35S100	06/04/2015 21:49	CQC	SCLPSS	7	23.11	1	SOIL	VSTD100SS	VSTD100SS 100	1377471
	COMMENTS: 2.5 uL of 28196; 5.0 uL of 28197, 19									
SU36S200	06/04/2015 22:20	CQC	SCLPSS	8	23.12	1	SOIL	VSTD200SS	VSTD200SS 200	1490772
	COMMENTS: 2.5 uL of 28196; 10 uL of 28197, 19									
SU37BLK	06/04/2015 22:50	CQC	SCLPSS	9	23.10	1	SOIL	System Blank		1209378
	COMMENTS: 2.5 uL of 28198									
SU38BLK	06/04/2015 23:20	CQC	SCLPMS	10	23.15	1	SOIL	System Blank		1147041
	COMMENTS: 2.5 uL of 28198									
SU39S05	06/04/2015 23:50	CQC	SCLPMS	11	23.15	1	SOIL	VSTD005MS	VSTD005MS 5.0	1084815
	COMMENTS: 2.5 uL of 28196; 0.25 uL of 28197, 19									
SU40S10	06/05/2015 00:20	CQC	SCLPMS	12	23.14	1	SOIL	VSTD010MS	VSTD010MS 10 u	1106915
	COMMENTS: 2.5 uL of 28196; 0.5 uL of 28197, 19									
SU41S50	06/05/2015 00:49	CQC	SCLPMS	13	23.11	1	SOIL	VSTD050MS	VSTD050MS 50 u	1141012
	COMMENTS: 2.5 uL of 28196; 2.5 uL of 28197, 19									
SU42S100	06/05/2015 01:20	CQC	SCLPMS	14	23.12	1	SOIL	VSTD100MS	VSTD100MS 100	1232538
	COMMENTS: 2.5 uL of 28196; 5.0 uL of 28197, 19									
SU43S200	06/05/2015 01:50	CQC	SCLPMS	15	23.10	1	SOIL	VSTD200MS	VSTD200MS 200	1200994
	COMMENTS: 2.5 uL of 28196; 10 uL of 28197, 19									
SU44BLK	06/05/2015 02:20	CQC	SCLPMS	16	23.14	1	SOIL	System Blank		1031486
	COMMENTS: 2.5 uL of 28198									
SU45BLK	06/05/2015 02:51	CQC	SCLPMS	17	23.11	1	SOIL	System Blank		1046529
	COMMENTS: 2.5 uL of 28198									
SU46BLK	06/05/2015 03:21	CQC	SCLPMS	18	23.13	1	SOIL	System Blank		1035042
	COMMENTS: 2.5 uL of 28198									
SU47BLK	06/05/2015 03:51	CQC	SCLPMS	19	23.13	1	SOIL	System Blank		1017705
	COMMENTS: 2.5 uL of 28198									

ALS Laboratory Group - GC/MS Volatile Analysis
Injection Logbook
Instrument 5972-S

FILE NAME	DATE & TIME INJECTED	OP	METHOD	SPAR GER#	RUN LENGTH	DIL FAC	MATRIX	SAMPLE	(STANDARD) (SOLUTION)		ISTD #1 AREA
SV25BFB	06/11/2015 16:25	CQC	SCLPSS	1	23.16	1	SOIL	BFBS1	50 ng BFB		0
	COMMENTS: 2.0 uL of 28268										
SV26S50	06/11/2015 16:56	CQC	SCLPSS	2	23.13	1	SOIL	VSTD050S1	VSTD050S1	50 u	1573580
	COMMENTS: 2.5 uL of 28198, 28199; 2.0 uL of 28268										
SV27BLK	06/11/2015 17:27	CQC	SCLPSS	3	23.13	1	SOIL	451272	VBLKS1		1555622
	COMMENTS: 2.5 uL of 28198										
SV28C001	06/11/2015 18:00	CQC	SCLPSS	4	23.12	1	SOIL	1515725001	F9K00		1342980
	COMMENTS: 1515725										
SV29C002	06/11/2015 18:31	CQC	SCLPSS	5	23.11	1	SOIL	1515725002	F9M82		1352547
	COMMENTS: 1515725										
SV30C003	06/11/2015 19:02	CQC	SCLPSS	6	23.16	1	SOIL	1515725003	F9M83		1371899
	COMMENTS: 1515725										
SV31C004	06/11/2015 19:32	CQC	SCLPSS	7	23.15	1	SOIL	1515725004	F9M84		1559560
	COMMENTS: 1515725										
SV32C005	06/11/2015 20:03	CQC	SCLPSS	8	23.15	1	SOIL	1515725005	F9M85		1514183
	COMMENTS: 1515725										
SV33C006	06/11/2015 20:33	CQC	SCLPSS	9	23.11	1	SOIL	1515725006	F9M86		1411122
	COMMENTS: 1515725										
SV34C007	06/11/2015 21:04	CQC	SCLPSS	10	23.14	1	SOIL	1515725007	F9M87		1416630
	COMMENTS: 1515725										
SV35C008	06/11/2015 21:34	CQC	SCLPSS	11	23.12	1	SOIL	1515725008	F9M88		1373246
	COMMENTS: 1515725										
SV36C009	06/11/2015 22:04	CQC	SCLPSS	12	23.14	1	SOIL	1515725009	F9M89		1425222
	COMMENTS: 1515725										
SV37C010	06/11/2015 22:34	CQC	SCLPSS	13	23.15	1	SOIL	1515725010	F9M90		1416566
	COMMENTS: 1515725										
SV38C011	06/11/2015 23:04	CQC	SCLPSS	14	23.10	1	SOIL	1515725011	F9M91		1298209
	COMMENTS: 1515725										
SV39C014	06/11/2015 23:35	CQC	SCLPSS	15	23.14	1	SOIL	1515725014	F9M92		1266488
	COMMENTS: 1515725										
SV40C015	06/12/2015 00:05	CQC	SCLPSS	16	23.14	1	SOIL	1515725015	F9M93		1232511
	COMMENTS: 1515725										
SV41C016	06/12/2015 00:35	CQC	SCLPSS	17	23.12	1	SOIL	1515725016	F9M94		1265072
	COMMENTS: 1515725										
SV42C017	06/12/2015 01:05	CQC	SCLPSS	18	23.15	1	SOIL	1515725017	F9M95		1284606
	COMMENTS: 1515725										
SV43F50	06/12/2015 01:36	CQC	SCLPSS	19	23.15	1	SOIL	VSTD050S2	VSTD050S2	50 u	1518131
	COMMENTS: 2.5 uL of 28198, 28199										
SV44F50	06/12/2015 02:06	CQC	SCLPSS	20	23.15	1	SOIL	VSTD050SX	VSTD050SX	50 u	1517108
	COMMENTS: 2.5 uL of 28198, 28199										

ALS Laboratory Group - GC/MS Volatile Analysis
Injection Logbook
Instrument 5972-S

FILE NAME	DATE & TIME INJECTED	OP	METHOD	SPAR GER#	RUN LENGTH	DIL FAC	MATRIX	SAMPLE	(STANDARD) (SOLUTION)	ISTD #1 AREA
SV45BFB	06/13/2015 10:24	CQC	SCLPSS	1	23.15	1	SOIL	BFBS2	50 ng BFB	0
	COMMENTS: 2.0 uL of 28268									
SV46S50	06/13/2015 10:54	CQC	SCLPSS	2	23.14	1	SOIL	VSTD050S3	VSTD050S3 50 u	1709511
	COMMENTS: 2.5 uL of 28198, 28199; 2.0 uL of 28268									
SV47BLK	06/13/2015 11:25	CQC	SCLPSS	3	23.15	1	SOIL	451273	VBLKS2	1743978
	COMMENTS: 2.5 uL of 28198									
SV48C018	06/13/2015 11:57	CQC	SCLPSS	4	23.14	1	SOIL	1515725018	F9M96	1564238
	COMMENTS: 1515725									
SV49C019	06/13/2015 12:28	CQC	SCLPSS	5	23.14	1	SOIL	1515725019	F9M97	1596255
	COMMENTS: 1515725									
SV50C020	06/13/2015 12:59	CQC	SCLPSS	6	23.14	1	SOIL	1515725020	F9M98	1747985
	COMMENTS: 1515725									
SV51C021	06/13/2015 13:30	CQC	SCLPSS	7	23.15	1	SOIL	1515725021	F9M99	1538443
	COMMENTS: 1515725									
SV52R001	06/13/2015 14:01	CQC	SCLPSS	8	23.12	1	SOIL	1515725001	F9K00	1467041
	COMMENTS: 1515725 Passed.									
SV53R003	06/13/2015 14:33	CQC	SCLPSS	9	23.16	1	SOIL	1515725003RE	F9M83RE	1320560
	COMMENTS: 1515725									
SV54R014	06/13/2015 15:04	CQC	SCLPSS	10	23.12	1	SOIL	1515725014RE	F9M92RE	1499855
	COMMENTS: 1515725									
SV55HBLK	06/13/2015 15:36	CQC	SCLPSS	11	23.16	1	SOIL	451274	VHBLKS1	1784410
	COMMENTS: 2.5 uL of 28198									
SV56F50	06/13/2015 16:07	CQC	SCLPSS	12	23.12	1	SOIL	VSTD050S4	VSTD050S4 50 u	1856456
	COMMENTS: 2.5 uL of 28198, 28199									

STANDARD REPORT

Working Standard - 4-BFB

4-BFB	Description - 4-Bromofluorobenzene
Standard: 27660	Created By: C. Coleman
MFG:	Create Date: 04/06/2015
MFG Lot: CH-3248	Lab Lot: 4-BFB CH-3248
Part ID:	

Amount: 5 mL
Expires: 06/07/2015
Usable: Yes

Pos.	Analyte	Name	Concentration
1	460-00-4	4-Bromofluorobenzene	25 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
22119	BFB	Bromofluorobenzene Stock	BFB CH-3248	62.5 uL	11/30/2015
26311	Methanol	Purge & Trap Methanol Solvent	P&T MeOH DJ-239	4.9375 mL	12/05/2025

STANDARD REPORT

Constituent

Stock Standard - BFB

BFB	Description - Bromofluorobenzene Stock
Standard: 22119	Created By: C. Coleman
MFG: Ultra Scientific	Create Date: 1/22/2014
MFG Lot: CH-3248	Lab Lot: BFB CH-3248
Part ID:	

Amount:
Expires: 11/30/2015
Usable: Yes

Pos.	Analyte	Name	Concentration
1	460-00-4	4-Bromofluorobenzene	2000 ug/mL

STANDARD REPORT

Constituent

Solvent Standard - Methanol

Methanol	Description - Purge & Trap Methanol Solvent
Standard: 26311	Created By: C. Coleman
MFG: B&J	Create Date: 12/5/2014
MFG Lot: DJ-239	Lab Lot: P&T MeOH DJ-239
Part ID:	

Amount: 235 mL
Expires: 12/5/2025
Usable: Yes

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Working Standard - 4-BFB

4-BFB	Description - 4-Bromofluorobenzene
Standard: 28268	Created By: C. Coleman
MFG:	Create Date: 08/06/2015
MFG Lot: CH-3248	Lab Lot: 4-BFB CH-3248
Part ID:	

Amount: 5 mL
Expires: 08/06/2015
Usable: Yes

Pos.	Analyte	Name	Concentration
1	460-00-4	4-Bromofluorobenzene	25 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
22119	BFB	Bromofluorobenzene Stock	BFB CH-3248	62.5 uL	11/30/2015
26311	Methanol	Purge & Trap Methanol Solvent	P&T MeOH DJ-239	4.9375 mL	12/05/2025

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STANDARD REPORT

Constituent

Stock Standard - BFB

BFB	Description - Bromofluorobenzene Stock
Standard: 22119	Created By: C. Coleman
MFG: Ultra Scalntific	Create Date: 1/22/2014
MFG Lot: CH-3248	Lab Lot: BFB CH-3248
Part ID:	
Amount:	
Expires: 11/30/2015	
Usable: Yes	

Pos.	Analyte	Name	Concentration
1	460-00-4	4-Bromofluorobenzene	2000 ug/mL

STANDARD REPORT

Constituent

Solvent Standard - Methanol

Methanol	Description - Purge & Trap Methanol Solvent
Standard: 26311	Created By: C. Coleman
MFG: B&J	Create Date: 12/5/2014
MFG Lot: DJ-239	Lab Lot: P&T MeOH DJ-239
Part ID:	
Amount: 235 mL	
Expires: 12/5/2025	
Usable: Yes	

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Working Standard - CLPIstdOnly

CLPIstdOnly	Description - CLP Internal Standard Only
Standard: 28196	Created By: C. Coleman
MFG:	Create Date: 05/28/2015
MFG Lot:	Lab Lot: CLP Istd Only
Part ID:	
Amount: 2 mL	
Expires: 06/28/2015	
Usable: Yes	

Pos.	Analyte	Name	Concentration
1	540-36-3	1,4-Difluorobenzene	100 ug/mL
2	3114-55-4	Chlorobenzene-d5	100 ug/mL
3	3855-82-1	1,4-Dichlorobenzene-d4	100 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
13356	CLP ISTD	EPA CLP Istd Stock	CLP Istd 080811	80 uL	08/08/2016
26311	Methanol	Purge & Trap Methanol Solvent	P&T MeOH DJ-239	1.92 mL	12/05/2025

STANDARD REPORT

Constituent

Solvent Standard - Methanol

Methanol	Description - Purge & Trap Methanol Solvent
Standard: 26311	Created By: C. Coleman
MFG: B&J	Create Date: 12/5/2014
MFG Lot: DJ-239	Lab Lot: P&T MeOH DJ-239
Part ID:	
Amount: 235 mL	
Expires: 12/5/2025	
Usable: Yes	

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Stock Standard - CLP ISTD

CLP ISTD		Description - EPA CLP Istd Stock
Standard: 13356	Created By: C. Coleman	Amount:
MFG: ABSOLUTE STANDARDS,	Create Date: 8/8/2011	Expires: 8/8/2016
MFG Lot: 080811	Lab Lot: CLP Istd 080811	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	540-36-3	1,4-Difluorobenzene	2500 ug/mL
2	3114-55-4	Chlorobenzene-d5	2500 ug/mL
3	3855-82-1	1,4-Dichlorobenzene-d4	2500 ug/mL

STANDARD REPORT

Working Standard - CLPDMCOnly

CLPDMCOnly		Description - CLP DMC Only
Standard: 28197	Created By: C. Coleman	Amount: 2 mL
MFG:	Create Date: 05/29/2015	Expires: 06/29/2016
MFG Lot:	Lab Lot: CLP DMC Only	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	17647-74-4	1,4-Dioxane-d8	2000 ug/mL
2	1076-43-3	Benzene-d6	100 ug/mL
3	865-49-6	Chloroform-d	100 ug/mL
4	2199-69-1	1,2-Dichlorobenzene-d4	100 ug/mL
5	17060-07-0	1,2-Dichloroethane-d4	100 ug/mL
6	22280-73-5	1,1-Dichloroethene-d2	100 ug/mL
7	78-87-5(d6)	1,2-Dichloropropane-d6	100 ug/mL
8	93951-86-1	trans-1,3-Dichloropropene-d4	100 ug/mL
9	33685-54-0	1,1,2,2-Tetrachloroethane-d2	100 ug/mL
10	2037-26-5	Toluene-d8	100 ug/mL
11	24313-50-6	2-Butanone-d5	200 ug/mL
12	4840-82-8	2-Hexanone-d5	200 ug/mL
13	19199-91-8	Chloroethane-d5	100 ug/mL
14	6745-35-3	Vinyl Chloride-d3	100 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
22415	CLP DMC	EPA CLP DMC Liquids Stock	CLP DMC 011614	100 uL	01/16/2017
26068	CLP DMC KET	EPA CLP DMC Ketones Stock	CLP DMC Ket 080414	160 uL	08/04/2017
26069	CLP 14Dioxd8	EPA CLP 1,4-Dioxane-d8 Stock	CLP 14Dioxd8 080414	128 uL	08/04/2017
26311	Methanol	Purge & Trap Methanol Solvent	P&T MeOH DJ-239	1.512 mL	12/05/2025
27293	CLP DMC Gas	EPA CLP DMC Gases Stock	CLP DMC Gas 022315	100 uL	02/23/2018

STANDARD REPORT

Constituent

Stock Standard - CLP 14Dioxd8

CLP 14Dioxd8		Description - EPA CLP 1,4-Dioxane-d8 Stock
Standard: 26069	Created By: C. Coleman	Amount:
MFG: Absolute Standards, Inc.	Create Date: 11/20/2014	Expires: 8/4/2017
MFG Lot: 080414	Lab Lot: CLP 14Dioxd8 080414	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	17647-74-4	1,4-Dioxane-d8	31250 ug/mL

STANDARD REPORT

Constituent

Solvent Standard - Methanol

Methanol		Description - Purge & Trap Methanol Solvent
Standard: 26311	Created By: C. Coleman	Amount: 235 mL
MFG: B&J	Create Date: 12/5/2014	Expires: 12/5/2025
MFG Lot: DJ-239	Lab Lot: P&T MeOH DJ-239	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Stock Standard - CLP DMC Gas

CLP DMC Gas			Description - EPA CLP DMC Gases Stock
Standard: 27293	Created By: C. Coleman	Amount:	
MFG: Absolute Standards, Inc.	Create Date: 3/3/2015	Expires: 2/23/2018	
MFG Lot: 022315	Lab Lot: CLP DMC Gas 022315	Usable: Yes	
Part ID: 94168			

Pos.	Analyte	Name	Concentration
1	19199-91-6	Chloroethane-d5	2000 ug/mL
2	6745-35-3	Vinyl Chloride-d3	2000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP DMC

CLP DMC			Description - EPA CLP DMC Liquids Stock
Standard: 22415	Created By: C. Coleman	Amount:	
MFG: Absolute Standards, Inc.	Create Date: 2/11/2014	Expires: 1/16/2017	
MFG Lot: 011614	Lab Lot: CLP DMC 011614	Usable: Yes	
Part ID: 94165			

Pos.	Analyte	Name	Concentration
1	1076-43-3	Benzene-d6	2000 ug/mL
2	865-49-6	Chloroform-d	2000 ug/mL
3	2199-69-1	1,2-Dichlorobenzene-d4	2000 ug/mL
4	17060-07-0	1,2-Dichloroethane-d4	2000 ug/mL
5	22280-73-5	1,1-Dichloroethene-d2	2000 ug/mL
6	78-87-5(d6)	1,2-Dichloropropane-d6	2000 ug/mL
7	93951-86-1	trans-1,3-Dichloropropene-d4	2000 ug/mL
8	33685-54-0	1,1,2,2-Tetrachloroethane-d2	2000 ug/mL
9	2037-26-5	Toluene-d8	2000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP DMC KET

CLP DMC KET			Description - EPA CLP DMC Ketones Stock
Standard: 26068	Created By: C. Coleman	Amount:	
MFG: Absolute Standards, Inc.	Create Date: 11/20/2014	Expires: 8/4/2017	
MFG Lot: 080414	Lab Lot: CLP DMC Ket 080414	Usable: Yes	
Part ID:			

Pos.	Analyte	Name	Concentration
1	24313-50-6	2-Butanone-d5	2500 ug/mL
2	4840-82-8	2-Hexanone-d5	2500 ug/mL

STANDARD REPORT

Working Standard - CLPIstd/DMC

CLPIstd/DMC			Description - CLP Internal Standard/DMC
Standard: 28198	Created By: C. Coleman	Amount: 2 mL	
MFG:	Create Date: 05/29/2015	Expires: 06/29/2015	
MFG Lot:	Lab Lot: CLP Istd/DMC	Usable: Yes	
Part ID:			

Pos.	Analyte	Name	Concentration
1	540-36-3	1,4-Difluorobenzene	100 ug/mL
2	3114-55-4	Chlorobenzene-d5	100 ug/mL
3	3855-82-1	1,4-Dichlorobenzene-d4	100 ug/mL
4	17647-74-4	1,4-Dioxane-d8	2000 ug/mL
5	1076-43-3	Benzene-d6	100 ug/mL
6	865-49-6	Chloroform-d	100 ug/mL
7	2199-69-1	1,2-Dichlorobenzene-d4	100 ug/mL
8	17060-07-0	1,2-Dichloroethane-d4	100 ug/mL
9	22280-73-5	1,1-Dichloroethene-d2	100 ug/mL
10	78-87-5(d6)	1,2-Dichloropropane-d6	100 ug/mL
11	93951-86-1	trans-1,3-Dichloropropene-d4	100 ug/mL
12	33685-54-0	1,1,2,2-Tetrachloroethane-d2	100 ug/mL
13	2037-26-5	Toluene-d8	100 ug/mL
14	24313-50-6	2-Butanone-d5	200 ug/mL
15	4840-82-8	2-Hexanone-d5	200 ug/mL
16	19199-91-6	Chloroethane-d5	100 ug/mL
17	6745-35-3	Vinyl Chloride-d3	100 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
13356	CLP ISTD	EPA CLP Istd Stock	CLP Istd 080811	80 uL	08/08/2016
22415	CLP DMC	EPA CLP DMC Liquids Stock	CLP DMC 011614	100 uL	01/16/2017
26068	CLP DMC KET	EPA CLP DMC Ketones Stock	CLP DMC Ket 080414	160 uL	08/04/2017
26069	CLP 14Dioxd8	EPA CLP 1,4-Dioxane-d8 Stock	CLP 14Dioxd8 080414	128 uL	08/04/2017
26311	Methanol	Purge & Trap Methanol Solvent	P&T MeOH DJ-239	1.432 mL	12/05/2025
27293	CLP DMC Gas	EPA CLP DMC Gases Stock	CLP DMC Gas 022315	100 uL	02/23/2018

STANDARD REPORT

Constituent

Stock Standard - CLP 14Dioxd8

CLP 14Dioxd8	Description - EPA CLP 1,4-Dioxane-d8 Stock	
Standard: 26069	Created By: C. Coleman	Amount:
MFG: Absolute Standards, Inc.	Create Date: 11/20/2014	Expires: 8/4/2017
MFG Lot: 080414	Lab Lot: CLP 14Dioxd8 080414	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	17647-74-4	1,4-Dioxane-d8	31250 ug/mL

STANDARD REPORT

Constituent

Solvent Standard - Methanol

Methanol	Description - Purge & Trap Methanol-Solvent	
Standard: 26311	Created By: C. Coleman	Amount: 235 mL
MFG: B&J	Create Date: 12/5/2014	Expires: 12/5/2025
MFG Lot: DJ-239	Lab Lot: P&T MeOH DJ-239	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Stock Standard - CLP ISTD

CLP ISTD	Description - EPA CLP Istd Stock	
Standard: 13356	Created By: C. Coleman	Amount:
MFG: ABSOLUTE STANDARDS,	Create Date: 8/8/2011	Expires: 8/8/2016
MFG Lot: 080811	Lab Lot: CLP Istd 080811	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	540-36-3	1,4-Difluorobenzene	2500 ug/mL
2	3114-55-4	Chlorobenzene-d5	2500 ug/mL
3	3855-82-1	1,4-Dichlorobenzene-d4	2500 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP DMC Gas

CLP DMC Gas	Description - EPA CLP DMC Gases Stock	
Standard: 27293	Created By: C. Coleman	Amount:
MFG: Absolute Standards, Inc.	Create Date: 3/3/2015	Expires: 2/23/2018
MFG Lot: 022315	Lab Lot: CLP DMC Gas 022315	Usable: Yes
Part ID: 94156		

Pos.	Analyte	Name	Concentration
1	19199-91-8	Chloroethane-d5	2000 ug/mL
2	6745-35-3	Vinyl Chloride-d3	2000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP DMC

CLP DMC — Description - EPA CLP DMC Liquids Stock

Standard: 22415 | Created By: C. Coleman | Amount:
MFG: Absolute Standards, Inc. | Create Date: 2/11/2014 | Expires: 1/16/2017
MFG Lot: 011614 | Lab Lot: CLP DMC 011614 | Usable: Yes
Part ID: 94165

Pos.	Analyte	Name	Concentration
1	1076-43-3	Benzene-d6	2000 ug/mL
2	865-49-6	Chloroform-d	2000 ug/mL
3	2199-69-1	1,2-Dichlorobenzene-d4	2000 ug/mL
4	17060-07-0	1,2-Dichloroethane-d4	2000 ug/mL
5	22280-73-5	1,1-Dichloroethene-d2	2000 ug/mL
6	78-87-5(d6)	1,2-Dichloropropane-d6	2000 ug/mL
7	93951-88-1	trans-1,3-Dichloropropene-d4	2000 ug/mL
8	33685-54-0	1,1,2,2-Tetrachloroethane-d2	2000 ug/mL
9	2037-26-5	Toluene-d8	2000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP DMC KET

CLP DMC KET — Description - EPA CLP DMC Ketones Stock

Standard: 26068 | Created By: C. Coleman | Amount:
MFG: Absolute Standards, Inc. | Create Date: 11/20/2014 | Expires: 8/4/2017
MFG Lot: 080414 | Lab Lot: CLP DMC Ket 080414 | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	24313-50-8	2-Butanone-d5	2500 ug/mL
2	4840-82-8	2-Hexanone-d5	2500 ug/mL

STANDARD REPORT

Working Standard - CLP VOA

CLP VOA — Description - CLP VOA

Standard: 28199 | Created By: C. Coleman | Amount: 2 mL
MFG: | Create Date: 05/28/2015 | Expires: 06/28/2015
MFG Lot: | Lab Lot: CLP VOA | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	123-91-1	1,4-Dioxane	2000 ug/mL
2	71-43-2	Benzene	100 ug/mL
3	108-88-3	Toluene	100 ug/mL
4	100-41-4	Ethyl benzene	100 ug/mL
5	95-47-6	o-Xylene	100 ug/mL
6	108-38-3	m-Xylene	50 ug/mL
7	106-42-3	p-Xylene	50 ug/mL
8	75-27-4	Bromodichloromethane	100 ug/mL
9	124-48-1	Dibromochloromethane	100 ug/mL
10	75-35-4	1,1-Dichloroethene	100 ug/mL
11	156-59-2	cis-1,2-Dichloroethene	100 ug/mL
12	156-60-5	trans-1,2-Dichloroethene	100 ug/mL
13	75-09-2	Methylene chloride	100 ug/mL
14	74-97-5	Bromochloromethane	100 ug/mL
15	75-25-2	Bromoform	100 ug/mL
16	56-23-5	Carbon tetrachloride	100 ug/mL
17	67-66-3	Chloroform	100 ug/mL
18	75-34-3	1,1-Dichloroethane	100 ug/mL
19	127-18-4	Tetrachloroethene	100 ug/mL
20	71-55-6	1,1,1-Trichloroethane	100 ug/mL
21	96-12-8	1,2-Dibromo-3-Chloropropane	100 ug/mL
22	106-93-4	1,2-Dibromoethane	100 ug/mL
23	107-06-2	1,2-Dichloroethane	100 ug/mL
24	78-87-5	1,2-Dichloropropane	100 ug/mL
25	10061-01-5	cis-1,3-Dichloropropene	100 ug/mL
26	10061-02-6	trans-1,3-Dichloropropene	100 ug/mL
27	79-34-5	1,1,2,2-Tetrachloroethane	100 ug/mL
28	79-00-5	1,1,2-Trichloroethane	100 ug/mL
29	79-01-6	Trichloroethene	100 ug/mL
30	108-90-7	Chlorobenzene	100 ug/mL
31	95-50-1	1,2-Dichlorobenzene	100 ug/mL
32	541-73-1	1,3-Dichlorobenzene	100 ug/mL
33	106-46-7	1,4-Dichlorobenzene	100 ug/mL
34	98-82-8	Cumene	100 ug/mL
35	100-42-5	Styrene	100 ug/mL
36	87-61-6	1,2,3-Trichlorobenzene	100 ug/mL
37	120-82-1	1,2,4-Trichlorobenzene	100 ug/mL
38	75-15-0	Carbon disulfide	100 ug/mL
39	110-82-7	Cyclohexane	100 ug/mL

STANDARD REPORT

Working Standard - CLP VOA

CLP VOA — Description - CLP VOA

Standard: 28199 | Created By: C. Coleman | Amount: 2 mL
MFG: | Create Date: 05/28/2015 | Expires: 06/28/2015
MFG Lot: | Lab Lot: CLP VOA | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
40	79-20-9	Methyl Acetate	100 ug/mL
41	108-87-2	Methylcyclohexane	100 ug/mL
42	1634-04-4	Methyl t-butyl ether	100 ug/mL
43	76-13-1	Freon 113	100 ug/mL
44	67-64-1	Acetone	200 ug/mL
45	78-93-3	Methyl ethyl ketone	200 ug/mL
46	108-10-1	Methyl isobutyl ketone	200 ug/mL
47	591-78-6	2-Hexanone	200 ug/mL
48	75-71-8	Dichlorodifluoromethane	100 ug/mL
49	74-87-3	Methyl chloride	100 ug/mL
50	75-01-4	Vinyl chloride	100 ug/mL
51	74-83-9	Bromomethane	100 ug/mL
52	75-00-3	Ethyl chloride	100 ug/mL
53	75-69-4	Freon 11	100 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
19269	CLP 14Dioxan	CLP 1,4-Dioxane Stock	CLP 14Diox 121410	200 uL	12/14/2015
20026	CLP VOA	EPA CLP VOA Stock	CLP VOA 040213	100 uL	04/02/2016
22414	CLP Ketones	EPA CLP Ketones Stock	CLP Ketones 092713	20 uL	09/27/2016
23090	CLP Gases	EPA CLP Gases Stock	CLP Gases 010213	100 uL	01/02/2016
26311	Methanol	Purge & Trap Methanol Solvent	P&T MeOH DJ-239	1.58 mL	12/05/2025

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STANDARD REPORT

Constituent

Stock Standard - CLP VOA

CLP VOA		Description - EPA CLP VOA Stock
Standard: 20026	Created By: J. Gress	Amount: 2
MFG: ABSOLUTE STANDARDS,	Create Date: 7/22/2013	Expires: 4/2/2016
MFG Lot: 040213	Lab Lot: CLP VOA 040213	Usable: Yes
Part ID: 84159		

Pos.	Analyte	Name	Concentration
1	71-43-2	Benzene	2000 ug/mL
2	108-88-3	Toluene	2000 ug/mL
3	100-41-4	Ethyl benzene	2000 ug/mL
4	95-47-6	o-Xylene	2000 ug/mL
5	108-38-3	m-Xylene	1000 ug/mL
6	106-42-3	p-Xylene	1000 ug/mL
7	75-27-4	Bromodichloromethane	2000 ug/mL
8	124-48-1	Dibromochloromethane	2000 ug/mL
9	75-35-4	1,1-Dichloroethene	2000 ug/mL
10	156-59-2	cis-1,2-Dichloroethene	2000 ug/mL
11	156-60-5	trans-1,2-Dichloroethene	2000 ug/mL
12	75-09-2	Methylene chloride	2000 ug/mL
13	74-97-5	Bromochloromethane	2000 ug/mL
14	75-25-2	Bromoform	2000 ug/mL
15	56-23-5	Carbon tetrachloride	2000 ug/mL
16	67-66-3	Chloroform	2000 ug/mL
17	75-34-3	1,1-Dichloroethane	2000 ug/mL
18	127-18-4	Tetrachloroethene	2000 ug/mL
19	71-55-6	1,1,1-Trichloroethane	2000 ug/mL
20	96-12-8	1,2-Dibromo-3-Chloropropane	2000 ug/mL
21	106-93-4	1,2-Dibromoethane	2000 ug/mL
22	107-06-2	1,2-Dichloroethane	2000 ug/mL
23	78-87-5	1,2-Dichloropropane	2000 ug/mL
24	10061-01-5	cis-1,3-Dichloropropene	2000 ug/mL
25	10061-02-6	trans-1,3-Dichloropropene	2000 ug/mL
26	79-34-5	1,1,2,2-Tetrachloroethane	2000 ug/mL
27	79-00-5	1,1,2-Trichloroethane	2000 ug/mL
28	79-01-6	Trichloroethene	2000 ug/mL
29	108-90-7	Chlorobenzene	2000 ug/mL
30	95-50-1	1,2-Dichlorobenzene	2000 ug/mL
31	541-73-1	1,3-Dichlorobenzene	2000 ug/mL
32	106-46-7	1,4-Dichlorobenzene	2000 ug/mL
33	98-82-8	Cumene	2000 ug/mL
34	100-42-5	Styrene	2000 ug/mL
35	87-61-6	1,2,3-Trichlorobenzene	2000 ug/mL
36	120-82-1	1,2,4-Trichlorobenzene	2000 ug/mL
37	75-15-0	Carbon disulfide	2000 ug/mL
38	110-82-7	Cyclohexane	2000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP VOA

CLP VOA		Description - EPA CLP VOA Stock
Standard: 20026	Created By: J. Gress	Amount: 2
MFG: ABSOLUTE STANDARDS,	Create Date: 7/22/2013	Expires: 4/2/2016
MFG Lot: 040213	Lab Lot: CLP VOA 040213	Usable: Yes
Part ID: 84159		

Pos.	Analyte	Name	Concentration
39	79-20-9	Methyl Acetate	2000 ug/mL
40	108-87-2	Methylcyclohexane	2000 ug/mL
41	1634-04-4	Methyl t-butyl ether	2000 ug/mL
42	76-13-1	Freon 113	2000 ug/mL

STANDARD REPORT

Constituent

Solvent Standard - Methanol

Methanol		Description - Purge & Trap Methanol Solvent
Standard: 28311	Created By: C. Coleman	Amount: 235 mL
MFG: B&J	Create Date: 12/5/2014	Expires: 12/5/2026
MFG Lot: DJ-239	Lab Lot: P&T MeOH DJ-239	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Stock Standard - CLP Ketones

CLP Ketones		Description - EPA CLP Ketones Stock
Standard: 22414	Created By: C. Coleman	Amount:
MFG: ABSOLUTE STANDARDS,	Create Date: 2/11/2014	Expires: 9/27/2016
MFG Lot: 092713	Lab Lot: CLP Ketones 092713	Usable: Yes
Part ID: 82492		

Pos.	Analyte	Name	Concentration
1	67-64-1	Acetone	20000 ug/mL
2	78-93-3	Methyl ethyl ketone	20000 ug/mL
3	108-10-1	Methyl isobutyl ketone	20000 ug/mL
4	591-78-6	2-Hexanone	20000 ug/mL

EA 7000

STANDARD REPORT

Constituent

Stock Standard - CLP Gases

CLP Gases			Description - EPA CLP Gases Stock
Standard: 23090	Created By: C. Coleman	Amount:	
MFG: Absolute Standards, Inc.	Create Date: 4/1/2014	Expires: 1/2/2016	
MFG Lot: 010213	Lab Lot: CLP Gases 010213	Usable: Yes	
Part ID: 30058			

Pos.	Analyte	Name	Concentration
1	75-71-8	Dichlorodifluoromethane	2000 ug/mL
2	74-87-3	Methyl chloride	2000 ug/mL
3	75-01-4	Vinyl chloride	2000 ug/mL
4	74-83-9	Bromomethane	2000 ug/mL
5	75-00-3	Ethyl chloride	2000 ug/mL
6	75-69-4	Freon 11	2000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP 14Dioxan

CLP 14Dioxan			Description - CLP 1,4-Dioxane Stock
Standard: 19269	Created By: C. Coleman	Amount:	
MFG: Absolute Standards, Inc.	Create Date: 12/14/2010	Expires: 12/14/2015	
MFG Lot: 121410	Lab Lot: CLP 14Diox 121410	Usable: Yes	
Part ID: 90577			

Pos.	Analyte	Name	Concentration
1	123-91-1	1,4-Dioxane	20000 ug/mL

STANDARD REPORT

Working Standard - CLP M.S.

CLP M.S.			Description - CLP Matrix Spike
Standard: 28200	Created By: C. Coleman	Amount: 2 mL	
MFG: Ultra Scientific	Create Date: 05/29/2015	Expires: 06/29/2015	
MFG Lot: CH-1788A	Lab Lot: CLP M.S. CH-1788A	Usable: Yes	
Part ID:			

Pos.	Analyte	Name	Concentration
1	75-35-4	1,1-Dichloroethene	100 ug/mL
2	71-43-2	Benzene	100 ug/mL
3	79-01-6	Trichloroethene	100 ug/mL
4	108-88-3	Toluene	100 ug/mL
5	108-90-7	Chlorobenzene	100 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
22428	CLP M.S.	CLP Matrix Spike Stock	CLP MS CH-1788A	200 uL	09/30/2016
26311	Methanol	Purge & Trap Methanol Solvent	P&T MeOH DJ-239	1.8 mL	12/05/2025

STANDARD REPORT

Constituent

Solvent Standard - Methanol

Methanol			Description - Purge & Trap Methanol Solvent
Standard: 26311	Created By: C. Coleman	Amount: 235 mL	
MFG: B&J	Create Date: 12/5/2014	Expires: 12/5/2025	
MFG Lot: DJ-239	Lab Lot: P&T MeOH DJ-239	Usable: Yes	
Part ID:			

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Stock Standard - CLP M.S.

CLP M.S.	Description - CLP Matrix Spike Stock
Standard: 22428	Created By: C. Coleman
MFG: Ultra Scientific	Create Date: 2/12/2014
MFG Lot: CH-1788A	Lab Lot: CLP MS CH-1788A
Part ID:	
Amount:	
Expires: 9/30/2015	
Usable: Yes	

Pos.	Analyte	Name	Concentration
1	75-35-4	1,1-Dichloroethene	1000 ug/mL
2	71-43-2	Benzene	1000 ug/mL
3	79-01-6	Trichloroethene	1000 ug/mL
4	108-88-3	Toluene	1000 ug/mL
5	108-90-7	Chlorobenzene	1000 ug/mL

STANDARD REPORT

Working Standard - CLP Med M.S.

CLP Med M.S.	Description - CLP Medium Level Matrix Spike
Standard: 28201	Created By: C. Coleman
MFG: Ultra Scientific	Create Date: 05/29/2015
MFG Lot: CH-1788A	Lab Lot: CLP Med M.S.CH-1788A
Part ID:	
Amount: 25 mL	
Expires: 08/29/2015	
Usable: Yes	

Pos.	Analyte	Name	Concentration
1	75-35-4	1,1-Dichloroethene	12.5 ug/mL
2	71-43-2	Benzene	12.5 ug/mL
3	79-01-6	Trichloroethene	12.5 ug/mL
4	108-88-3	Toluene	12.5 ug/mL
5	108-90-7	Chlorobenzene	12.5 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
22428	CLP M.S.	CLP Matrix Spike Stock	CLP MS CH-1788A	312.5 uL	09/30/2015
26311	Methanol	Purge & Trap Methanol Solvent	P&T MeOH DJ-239	24.6875 mL	12/05/2025

STANDARD REPORT

Constituent

Solvent Standard - Methanol

Methanol	Description - Purge & Trap Methanol Solvent
Standard: 26311	Created By: C. Coleman
MFG: B&J	Create Date: 12/5/2014
MFG Lot: DJ-239	Lab Lot: P&T MeOH DJ-239
Part ID:	
Amount: 235 mL	
Expires: 12/5/2025	
Usable: Yes	

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Stock Standard - CLP M.S.

CLP M.S.	Description - CLP Matrix Spike Stock
Standard: 22428	Created By: C. Coleman
MFG: Ultra Scientific	Create Date: 2/12/2014
MFG Lot: CH-1788A	Lab Lot: CLP MS CH-1788A
Part ID:	
Amount:	
Expires: 9/30/2015	
Usable: Yes	

Pos.	Analyte	Name	Concentration
1	75-35-4	1,1-Dichloroethene	1000 ug/mL
2	71-43-2	Benzene	1000 ug/mL
3	79-01-6	Trichloroethene	1000 ug/mL
4	108-88-3	Toluene	1000 ug/mL
5	108-90-7	Chlorobenzene	1000 ug/mL

? WEIGHT REPORT

Part Number: 94155
Lot Number: 011614
Description: CLP SOM 01.1 DMC Volatiles
9 components
Expiration Date: 011617
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000

Solvent(s): Lot # DG596 Methanol

Formulated By: Paul Barron 011614 DATE
Reviewed By: Pedro L. Rentas 011614 DATE

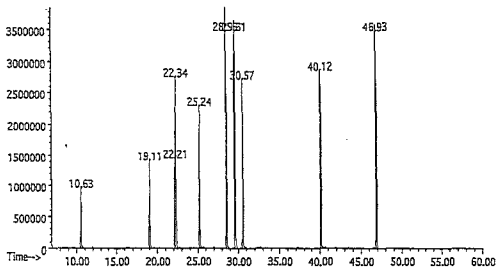
5E-05 Balance Uncertainty

ht(s) shown below were combined and diluted to (mL): 100.0 0.001 Flask Uncertainty

MSDS Information (Solvent Safety Info. On Attached pg.)

pound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
ene-d6	26	4605DKDK	2000	99	0.2	0.20224	0.20220	2001.6	0.0041	01076-43-3	1 ppm (8H)	N/A
bform-d	2558	V210P1	2000	99.8	0.2	0.20042	0.20065	2002.3	0.0040	00865-49-6	N/A	ori-hmn 140mg/kg
ichlorobenzene-d4	128	PR-18853/12207DB2	2000	99	0.2	0.20204	0.20224	2002.0	0.0041	02199-69-1	50 ppm (300mg/m3) (CL)	ori-rat 500mg/kg
ichloroethane-d4	137	V288P18	2000	99.6	0.2	0.20082	0.20100	2001.8	0.0040	17060-07-0	N/A	ori-mus 625mg/kg
ichloroethene-d2	2047	W151P5	2000	99	0.2	0.20204	0.20230	2002.6	0.0041	22220-75-5	N/A	N/A
ichloropropene-d6	2051	L283P25	2000	99.7	0.2	0.20062	0.20099	2002.8	0.0040	93952-08-6	N/A	ori-rat 1947mg/kg
ans-1,3-Dichloropropene-d4	2052	Z181P6	2000	40.9	0.2	0.48905	0.48930	2001.0	0.0098	202656-29-3	N/A	ori-rat 470mg/kg
2-Tetrachloroethane-d2	2053	F485P1	2000	99.6	0.2	0.20082	0.20105	2002.3	0.0040	33685-54-0	N/A	ori-rat 850mg/kg
ene-d8	282	60-549	2000	99.5	0.2	0.20103	0.20130	2002.7	0.0041	02037-26-5	200 ppm	ori-rat 5000mg/kg

TIC: [BS81]94155.D



Method: GC6MSD-1. Detector: Mass Selective Detector. Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1=10min.). Temp. 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector Temp.= 200°C, Detector Temp. = 220°C. Analyst: Candice Warren.

Name	MSD RT (min.)
1,1-Dichloroethene-d2	10.61
Chloroform-d	19.13
1,2-Dichloroethane-d4	22.20
Benzene-d6	22.36
1,2-Dichloropropane-d6	25.23
cis-1,3-Dichloropropene-d4	28.53
Toluene-d8	29.62
trans-1,3-Dichloropropene-d4	30.59
1,1,2,2-Tetrachloroethane-d2	40.08
1,2-Dichlorobenzene-d4	46.93

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ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

Quality Assurance Manager

Certificate of Analysis

4-Bromofluorobenzene Solution

Product Number: STS-110N
Lot Number: CH-3248
Page: 1 of 1
Lot Issue Date: 07-Oct-2011
Expiration Date: 30-Nov-2015

This Certified Reference Material (CRM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
4-bromofluorobenzene	000460-00-4	RM03385	2005 ± 10 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at <4° C

WEIGHT REPORT

Part Number: 94157
Lot Number: 080414
Description: CLP SOM 01.1 DMC Ketones
2 components
Expiration Date: 080417
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 2500

Solvent(s): Lot # DK010 Methanol (90%) 072414 Water (10%)

Formulated By: Gabriel Helland 080414 DATE
Reviewed By: Pedro L. Rentas 080414 DATE

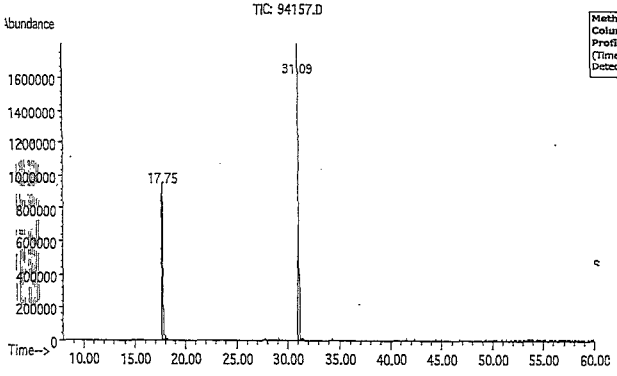
5E-05 Balance Uncertainty

(s) shown below were combined and diluted to (mL): 100.0 0.008 Flask Uncertainty

MSDS Information (Solvent Safety Info. On Attached pg.)

ound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
one-1,1,1,3,3-d5	2557	M276P7	2500	99	0.2	0.25254	0.25268	2501.4	0.0041	24915-50-6	N/A	ori-rat 2737mg/kg
one-1,1,1,3,3-d5	2558	S166P26	2500	98.5	0.2	0.25382	0.25419	2503.6	0.0041	04840-82-8	N/A	ori-rat 2590mg/kg

TIC: 94157.D



Method: GC6MSD-1. Detector: Mass Selective Detector. Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1=10min.), Temp. 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector Temp.= 200°C, Detector Temp. = 220°C. Analyst: Candice Warren.

Name	MSD RT (min.)
2-Butanone-1,1,1,3,3-d5	17.75
2-Hexanone-1,1,1,3,3-d5	31.12

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ERTIFIED WEIGHT REPORT

Part Number: 20048
Lot Number: 080811
Description: CLP Volatiles - Low Concentration Internal Standard
3 components
Expiration Date: 080816
Storage: 4 °C
Nominal Concentration (µg/mL): 2500

Solvent(s): Lot # DD946 Methanol

Formulated By: Justin Dippold 080811 DATE
Reviewed By: Pedro L. Rentas 080811 DATE

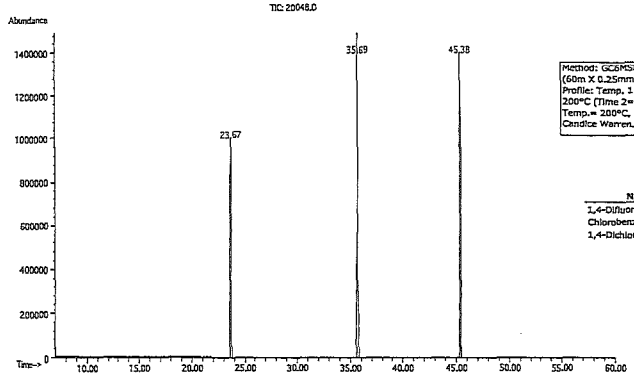
5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to: 100.0 0.002 Flask Uncertainty

MSDS Information (Solvent Safety Info. On Attached pg.)

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1. Chlorobenzene-d5	69	V581P26	2500	99.3	0.2	0.25173	0.25220	2504.7	0.00405	03114-55-4	N/A	ori-rat 1110mg/kg
2. 1,4-Dichlorobenzene-d4	118	PR-18488/07207CB1	2500	98	0.2	0.25507	0.25537	2502.9	0.00410	03855-82-1	75 ppm	ori-rat 500mg/kg
3. 1,4-Difluorobenzene	155	13105AO	2500	99	0.2	0.25249	0.25271	2502.1	0.00406	00540-36-3	N/A	N/A

TIC: 20048.D



Method: GC6MSD-1. Detector: MSD. Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1=10min.), Temp. 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector Temp.= 200°C, Detector Temp. = 220°C. Analyst: Candice Warren.

Name	MSD RT (min.)
1,4-Difluorobenzene	23.67
Chlorobenzene-d5	35.69
1,4-Dichlorobenzene-d4	45.38

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IFIED WEIGHT REPORT

Part Number: 30058
Lot Number: 010213
Description: EPA Method 502/524 - Volatile Gases Mix #1
6 components
Expiration Date: 010216
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000

Solvent(s): Lot # DE897 Methanol

Formulated By: Vincent K. Criscio, Jr. DATE 010213
Reviewed By: Pedro L. Rentas DATE 010213

Weight(s) shown below were combined and diluted to: 499.9 | 5E-05 Balance Uncertainty | 0.058 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
Bromomethane	50	01611JX	2000	99.5	0.2	1.00475	1.0069	2004.3	0.00403	00074-83-9	5 ppm (20mg/m3/8H) (skin)	orl-rat 214mg/kg
Chloroethane	72	00727KX	2000	99	0.2	1.00982	1.0100	2000.4	0.00405	00075-00-3	1000 ppm (2600mg/m3/8H)	N/A
Chloromethane	79	08908MS	2000	99.5	0.2	1.00475	1.0117	2013.8	0.00403	00074-87-3	100 ppm	orl-rat 1800mg/kg
Dichlorodifluoromethane	134	92-0487	2000	99	0.2	1.00982	1.0204	2020.9	0.00405	00075-71-8	1000 ppm (4950mg/m3/8H)	N/A
Trichlorofluoromethane	294	01823MW	2000	99	0.2	1.00982	1.0150	2010.3	0.00405	00075-69-4	1000 ppm (5600mg/m3/8H)	ipr-mus 1743mg/kg
Vinyl chloride	305	1281633 21306138	2000	99.5	0.2	1.00475	1.0113	2013.0	0.00403	00075-01-4	N/A	N/A

MSDS Information (Solvent Safety Info. On Attached pg.)

Run 9, "P30058 L010213 [2000µg/mL in MeOH]"

Run Length: 15.00 min, 8888 points at 10 points/second.
Created: Wed, Jan 2, 2013 at 5:05:03 PM.
Sampled: Sequence "123112-GC1", Method "GC1-M9".
Analyzed using Method "GC1-M9".

Comments
GC1-M9 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow = 150mL/min., Helium (carrier) = 10mL/min.,
Helium (make-up) = 40mL/min., Hydogen (make-up) = 100mL/min.,
Oven Profile: Temp. 1 = 35°C (Time 1 = 9 min.), Temp 2 = 200°C (Time 2 = 1 min.).
Rate = 33°C/min., Total run time = 15 min. Injector temp. = 200°C, FID Temp. = 200°C.
ELCD Signal = Edaq Channel 2 PID Signal = Edaq Channel 2
Standard injection = 0.5µL, Range=4 Purge Valve = 0 min

Analyte	ELCD RT (min.)
Dichlorodifluoromethane *	5.34
Chloromethane	6.03
Vinyl chloride	6.34
Bromomethane	7.67
Chloroethane	7.93
Trichlorofluoromethane	8.76

* +/- 20%CRM

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CERTIFIED WEIGHT REPORT

Part Number: 94158
Lot Number: 080414
Description: CLP SOM 01.1 DMC
1,4-Dioxane-d8
Expiration Date: 080417
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 31250

Solvent(s): Lot # DK010 Methanol

Formulated By: Gabriel Helland DATE 080414
Reviewed By: Pedro L. Rentas DATE 080414

Weight(s) shown below were combined and diluted to (mL): 25.0 | 5E-05 Balance Uncertainty | 0.006 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dioxane-d8	1882	11C-598	31250	99	0.2	0.78919	0.78922	31251.2	0.0041	17647-74-4	N/A	orl-rbt 2000mg/kg

MSDS Information (Solvent Safety Info. On Attached pg.)

Method GC6MSD-1: Column: Vocol (30m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analysis performed by Candice Warren.

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CERTIFIED WEIGHT REPORT

Part Number: 94169
Lot Number: 040213
Description: CLP SOM 01.1 Volatiles
42 components
Expiration Date: 040216
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): Varied

Lot # DH247Q1 Solvent(s): Methanol

Formulated By: Justin Dippold DATE 040213
Reviewed By: Pedro L. Rentas DATE 040213

Volume(s) shown below were combined and diluted to (mL): 100.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

Compound	Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Uncertainty Pipette	Initial Conc.(ug/mL)	Final Conc.(ug/mL)	Expanded Uncertainty (+/-)	CAS#	OSHA PEL (TWA)	LD50
1. Benzene	93831	072910	0.10	10.00	0.006	20013.0	2001.1	0.00433	00071-43-2	1 ppm	orl-rat 4894mg/kg
2. Toluene	93831	072910	0.10	10.00	0.006	20019.6	2001.8	0.00420	00108-88-3	*200 ppm	orl-rat 5000mg/kg
3. Ethyl benzene	93831	072910	0.10	10.00	0.006	20015.0	2001.3	0.00416	00100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
4. o-Xylene	93831	072910	0.10	10.00	0.006	20020.6	2001.9	0.00424	00095-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
5. m-Xylene	93831	072910	0.10	10.00	0.006	10008.1	1000.7	0.00420	00108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
6. p-Xylene	93831	072910	0.10	10.00	0.006	10009.3	1000.8	0.00420	00106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
7. Bromodichloromethane	30171	020712	0.10	10.00	0.006	20011.9	2001.0	0.00408	00075-27-4	N/A	orl-rat 916mg/kg
8. Dibromochloromethane	30171	020712	0.10	10.00	0.006	20008.1	2000.6	0.00408	00124-48-1	N/A	orl-rat 848mg/kg
9. cis-1,2-Dichloroethene	30171	020712	0.10	10.00	0.006	20009.2	2000.7	0.00404	00156-59-2	N/A	N/A
10. trans-1,2-Dichloroethene	30171	020712	0.10	10.00	0.006	20003.4	2000.1	0.00408	00156-60-5	N/A	orl-rat 1235mg/kg
11. Methylene chloride	30171	020712	0.10	10.00	0.006	20001.9	2000.0	0.00401	00075-09-2	500 ppm	orl-rat 2136mg/kg
12. 1,1-Dichloroethene	32251	122112	0.10	10.00	0.006	20002.4	2000.0	0.00404	00075-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
13. Bromochloromethane	94170	072910	0.10	10.00	0.006	20019.7	2001.8	0.00420	00074-97-5	200 ppm (1050mg/m3/8H)	orl-rat 5000mg/kg
14. Bromoform	94170	072910	0.10	10.00	0.006	20019.5	2001.7	0.00420	00075-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 1147mg/kg
15. Carbon tetrachloride	94170	072910	0.10	10.00	0.006	20019.5	2001.7	0.00418	00056-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
16. Chloroform	94170	072910	0.10	10.00	0.006	20019.8	2001.8	0.00420	00067-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
17. 1,1-Dichloroethane	94170	072910	0.10	10.00	0.006	20019.4	2001.7	0.00420	00075-34-3	100 ppm	orl-rat 725mg/kg
18. Tetrachloroethene	94170	072910	0.10	10.00	0.006	20019.8	2001.8	0.00420	00127-18-4	5 ppm (170mg/m3/8H)(fire	orl-rat 2629mg/kg
19. 1,1,1-Trichloroethane	94170	072910	0.10	10.00	0.006	20019.5	2001.7	0.00420	00071-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
20. 1,2-Dibromo-3-chloropropane	94171	092310	0.10	10.00	0.006	20002.6	2000.1	0.00420	00096-12-8	0.001 ppm	orl-rat 170mg/kg
21. 1,[illegible]romoethane	94171	092310	0.10	10.00	0.006	20008.0	2000.8	0.00420	00106-93-4	20 ppm (8H)	orl-rat 108mg/kg
22. [illegible]loroethane	94171	092310	0.10	10.00	0.006	20004.4	2000.2	0.00416	00107-06-2	50 ppm (8H)	orl-rat 670mg/kg
23. 1,2-[illegible]chloropropane	94171	092310	0.10	10.00	0.006	20010.2	2000.8	0.00420	00078-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
24. cis-1,3-Dichloropropene	94171	092310	0.10	10.00	0.006	20004.8	2000.3	0.00420	10061-01-5	N/A	N/A
25. trans-1,3-Dichloropropene	94171	092310	0.10	10.00	0.006	20012.1	2001.0	0.00420	10061-02-6	N/A	N/A
26. 1,1,2,2-Tetrachloroethane	94171	092310	0.10	10.00	0.006	20004.3	2000.2	0.00420	00079-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
27. 1,1,2-Trichloroethane	94171	092310	0.10	10.00	0.006	20005.9	2000.4	0.00424	00079-00-5	10 ppm (45mg/m3/8H)(skin	orl-rat 835mg/kg
28. Trichloroethene	94171	092310	0.10	10.00	0.006	20011.6	2001.0	0.00418	00079-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
29. Chlorobenzene	94172	092310	0.10	10.00	0.006	20009.9	2000.8	0.00420	00108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
30. 1,2-Dichlorobenzene	94172	092310	0.10	10.00	0.006	20011.9	2001.0	0.00420	00095-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
31. 1,3-Dichlorobenzene	94172	092310	0.10	10.00	0.006	20010.7	2000.9	0.00424	00541-73-1	N/A	ipr-mus 1062mg/kg
32. 1,4-Dichlorobenzene	94172	092310	0.10	10.00	0.006	20012.1	2001.0	0.00420	00106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
33. Isopropylbenzene	94172	092310	0.10	10.00	0.006	20008.8	2000.7	0.00424	00098-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
34. Styrene	94172	092310	0.10	10.00	0.006	20012.2	2001.0	0.00420	00100-42-5	100 ppm	orl-rat 5000mg/kg
35. 1,2,3-Trichlorobenzene	94172	092310	0.10	10.00	0.006	20012.2	2001.0	0.00420	00087-61-6	N/A	ipr-mus 1390mg/kg
36. 1,2,4-Trichlorobenzene	94172	092310	0.10	10.00	0.006	20010.8	2000.9	0.00420	00120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
37. Carbon disulphide	94173	072910	0.10	10.00	0.006	20018.9	2001.7	0.00420	00075-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
38. Cyclohexane	94173	072910	0.10	10.00	0.006	20018.5	2001.6	0.00418	00110-82-7	300 ppm (1050mg/m3/8H)	orl-rat 12705mg/kg
39. Methyl acetate	94173	072910	0.10	10.00	0.006	20017.0	2001.5	0.00418	00079-20-9	200 ppm (610mg/m3/8H)	orl-rbt 3705mg/kg
40. Methylcyclohexane	94173	072910	0.10	10.00	0.006	20019.7	2001.8	0.00420	00108-87-2	N/A	N/A
41. Methyl tert-butyl ether (MTBE)	94173	072910	0.10	10.00	0.006	20019.5	2001.7	0.00418	01634-04-4	N/A	orl-rat 4g/kg
42. 1,1,2-Trichloro-1,2,2-trifluoroethane	94173	072910	0.10	10.00	0.006	20019.7	2001.8	0.00420	00076-13-1	1000 ppm (7600mg/m3/8H	orl-rat 43g/kg

MSDS Information (Solvent Safety Info. On Attached pg.)

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Analytical Reference Material ARM

ISO 9001 QS Registered
ISO 17025-34-35-43 Accredited
Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part Number: 94156
Lot Number: 022315
Description: CLP SOM 01.1 VOC DMC Gases
2 components
Expiration Date: 022318
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000

Solvent(s): Methanol Lot# DK793

Formulated By: Vincent K. Criscio, Jr. DATE 022315
Reviewed By: Pedro L. Rentas DATE 022315

Volume(s) shown below were combined and diluted to (mL): 25.0 | 5E-05 Balance Uncertainty | 0.006 Flask Uncertainty

Compound	Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Uncertainty Pipette	Initial Conc.(ug/mL)	Final Conc.(ug/mL)	Expanded Uncertainty (+/-)	CAS#	OSHA PEL (TWA)	LD50
1. Chloroethane-d5	94176	072214	0.20	5.00	0.025	10034.4	2006.8	0.01080	19199-91-8	N/A	N/A
2. Vinyl chloride-d3	94177	072214	0.20	5.00	0.025	10053.6	2010.6	0.00409	08745-35-3	N/A	orl-rat 500mg/kg

MSDS Information (Solvent Safety Info. On Attached pg.)

Analyte	ELCD RT (min.)
Vinyl chloride-d3	6.74
Chloroethane-d5	8.33

Comments
GC15-M9 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow = 150mL/min., Helium (carrier) = 10mL/min.,
Helium (make-up) = 40mL/min., Hydogen (make-up) = 100mL/min.,
Oven Profile: Temp. 1 = 35°C (Time 1 = 9 min.), Temp 2 = 200°C (Time 2 = 1 min.).
Rate = 33°C/min., Total run time = 15 min. Injector temp. = 200°C, FID Temp. = 200°C.
ELCD Signal = Edaq Channel 2 PID Signal = Edaq Channel 2
Standard injection = 0.5µL, Range=4 Purge Valve = 0 min

S 27293

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Certified Reference Material CRM

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CERTIFIED WEIGHT REPORT

			Lot #		
Part Number:	82492	Solvent(s):	DG596	Methanol	(90%)
Lot Number:	092713		083013	Water	(10%)
Description:	EPA Method 8240A - Mix #2 (Concentrate)				
	Ketones - 4 components				
Expiration Date:	092716				
Recommended Storage:	Refrigerate (4 °C)				
Nominal Concentration (µg/mL):	20000				

Formulated By: Paul Barron — 092713 DATE

Reviewed By: Pedro L. Rentas — 092713 DATE

55-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to: 100.0 g 0.001 g Flask Uncertainty

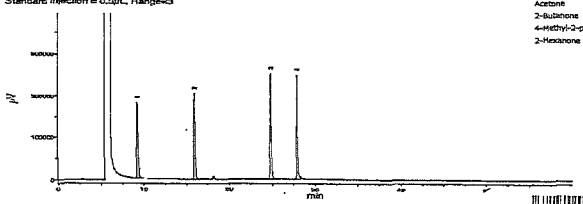
Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty	CAS#	MSDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50
1. Acetone	4	094849H	20000	99.5	0.2	2.01026	2.01120	20009.4	0.00402	00067-64-1	750 ppm	orl-rat 5800mg/kg
2. 2-Butanone (Methyl ethyl ketone)	53	4605EL	20000	99.9	0.2	2.00221	2.00310	20008.9	0.00400	00078-93-3	200 ppm (590mg/m3/8H)	orl-rat 2737mg/kg
3. 2-Hexanone	200	10714PE	20000	98	0.2	2.04103	2.04250	20014.5	0.00408	00591-78-6	100 ppm (410mg/m3/8H)	orl-rat 2590mg/kg
4. 4-Methyl-2-pentanone	210	00861PH	20000	99.5	0.2	2.01026	2.01140	20011.4	0.00402	00108-10-1	100 ppm (410mg/m3/8H)	orl-rat 2080mg/kg

Run 42, "P82492 L092713 [20mg/mL in M:W(9:1)] Dil:1:10"

Run Length: 60.00 min. 35998 points at 10 points/second.
Created: Sat, Sep 28, 2013 at 10:58:08 AM.
Sampled. Sequence "002913-GC13-M1", Method "GC13-M1".
Analyzed using Method "GC13-M1".

Comments
GC13-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=200mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edas Channel 1
Standard injection = 0.2µL, Range=3

Name	FID RT (min.)
Acetone	9.23
2-Butanone	15.90
4-Methyl-2-pentanone	24.84
2-Hexanone	27.89



S 22414

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CERTIFIED WEIGHT REPORT

			Lot #	
Part Number:	90577	Solvent(s):	50172	Methanol
Lot Number:	121410			
Description:	1,4-Dioxane			
Expiration Date:	121415			
	Storage: 4 °C			
Nominal Concentration (µg/mL):	20000			

Formulated By: Pat Scaturchio — 121410 DATE

Reviewed By: Pedro L. Rentas — 121410 DATE

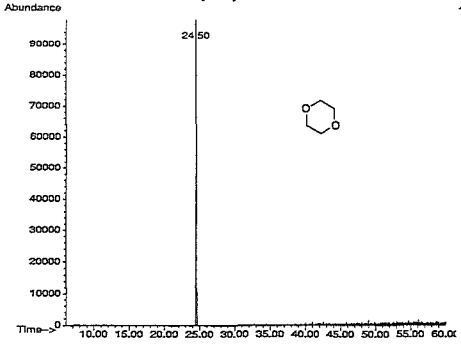
55-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to: 100.0 g 0.002 g Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dioxane	373	038S3KE	20000	99	0.2	2.01994	2.02085	20009.0	0.0040	00123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp.= 200°C, Detector Temp. = 220°C. Analysis performed by Candice Warren.

TIC: [BSB4]90577.D



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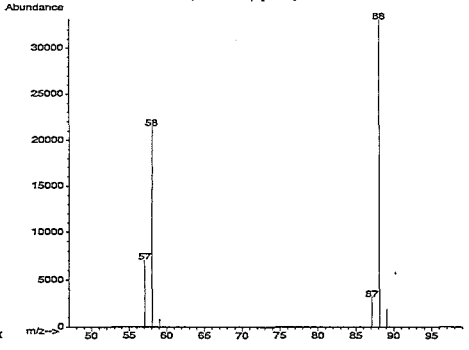

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

Volatiles Matrix Spiking Solution

Product Number: CLP-100N
Lot Number: CH-1788A
Page: 1 of 1
Lot Issue Date: 19-Aug-2013
Expiration Date: 30-Sep-2015

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
benzene	000071-43-2	34097	1004 ± 5 µg/mL
chlorobenzene	000108-90-7	07774MG	1004 ± 5 µg/mL
1,1-dichloroethene	000075-35-4	02228GH	1004 ± 5 µg/mL
toluene	000108-88-3	47144	1004 ± 5 µg/mL
trichloroethene	000079-01-6	KN-08846KN	1004 ± 5 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

S 22428

William-Jon Leahy

ISO 9001
ISO 17025
500 Smith Street North Kingstown RI 02852 USA

Batch Worklist

Batch: ESVO/ 5000 Created: 6/25/2015 07:37 Instrument: 5975-G HBN: 151199

Rule: SOM SVOA, Soil Analyst: S. Yourstone Status: WP

Workorder: 1515725 SDG: F9K00 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	451431	MB for HBN 150479 [ENVX/21803]	30 grams	.5 mL		MB	4		SOMSVOAS.4	6158	7/27/2015	6/25/2015	6/25/2015
2	1515725001	F9K00	30.08 grams	.5 mL		SAMPLE	4	1515725001-C	S12SVOAS.4	5936	7/27/2015	6/25/2015	6/25/2015
3	1515725002	F9M82	30.41 grams	.5 mL		SAMPLE	4	1515725002-C	S12SVOAS.4	5936	7/27/2015	6/25/2015	6/25/2015
4	1515725003	F9M83	30.04 grams	.5 mL		SAMPLE	4	1515725003-C	S12SVOAS.4	5936	7/27/2015	6/25/2015	6/25/2015
5	1515725004	F9M84	30.23 grams	.5 mL		SAMPLE	4	1515725004-C	S12SVOAS.4	5936	7/27/2015	6/25/2015	6/25/2015
6	1515725005	F9M85	30.47 grams	.5 mL		SAMPLE	4	1515725005-C	S12SVOAS.4	5936	7/27/2015	6/25/2015	6/25/2015
7	1515725006	F9M86	30.21 grams	.5 mL		SAMPLE	4	1515725006-C	S12SVOAS.4	5936	7/27/2015	6/25/2015	6/25/2015
8	1515725007	F9M87	30.08 grams	.5 mL		SAMPLE	4	1515725007-C	S12SVOAS.4	5936	7/27/2015	6/25/2015	6/25/2015
9	1515725008	F9M88	30.16 grams	.5 mL		SAMPLE	4	1515725008-C	S12SVOAS.4	5936	7/27/2015	6/25/2015	6/25/2015
10	1515725009	F9M89	30.26 grams	.5 mL		SAMPLE	4	1515725009-C	S12SVOAS.4	5936	7/27/2015	6/25/2015	6/25/2015
11	1515725010	F9M90	30.43 grams	.5 mL		SAMPLE	4	1515725010-C	S12SVOAS.4	5936	7/27/2015	6/25/2015	6/25/2015
12	1515725011	F9M91	30.4 grams	.5 mL		SAMPLE	4	1515725011-C	S12SVOAS.4	5936	7/27/2015	6/25/2015	6/25/2015
13	1515725014	F9M92	30.16 grams	.5 mL		SAMPLE	4	1515725014-C	S12SVOAS.4	5936	7/27/2015	6/25/2015	6/25/2015
14	1515725015	F9M93	30 grams	.5 mL		SAMPLE	4	1515725015-C	S12SVOAS.4	5936	7/27/2015	6/25/2015	6/25/2015
15	1515725016	F9M94	30.05 grams	.5 mL		SAMPLE	4	1515725016-C	S12SVOAS.4	5936	7/27/2015	6/25/2015	6/25/2015
16	1515725017	F9M95	30.26 grams	.5 mL		SAMPLE	4	1515725017-C	S12SVOAS.4	5936	7/27/2015	6/25/2015	6/25/2015
17	1515725018	F9M96	30.12 grams	.5 mL		SAMPLE	4	1515725018-C	S12SVOAS.4	5936	7/27/2015	6/25/2015	6/25/2015
18	1515725019	F9M97	30.01 grams	.5 mL		SAMPLE	4	1515725019-C	S12SVOAS.4	5936	7/27/2015	6/25/2015	6/25/2015
19	1515725020	F9M98	30.4 grams	.5 mL		SAMPLE	4	1515725020-C	S12SVOAS.4	5936	7/27/2015	6/25/2015	6/25/2015
20	1515725021	F9M99	30.03 grams	.5 mL		SAMPLE	4	1515725021-C	S12SVOAS.4	5936	7/27/2015	6/25/2015	6/25/2015

DATACHEM LABORATORIES - GC\MS SEMIVOLATILE ANALYSIS
INJECTION LOGBOOK
INSTRUMENT 5975-D

File Name	Date and Time Injected	OP	Method	ALS BOT	Run Length	Dil Fac	Sample name	Misc info
DEK01SP4	06/22/2015 07:10	SY	DSOM_SIMJ2	1	24.66	1	SSTD0.4DK 28434	X7-19-15
DEK02SP4	06/22/2015 07:40	SY	DSOM_SIMJ2	1	24.66	1	SSTD0.4DK 28434	X7-19-15
DEL01S20	06/22/2015 12:31	DJC	DSOM01D6	1	25.96	1	SSTD020DL 28463 DFTPPDL	X7-19-15
DEL02S20	06/22/2015 13:05	DJC	DSOM01D6	1	25.96	1	SSTD020DL 28463 DFTPPDL	X7-19-15
DEL03S05	06/22/2015 13:39	DJC	DSOM01D6	2	25.96	1	SSTD005DL 28463 (4)	X7-19-15
DEL04S10	06/22/2015 14:13	DJC	DSOM01D6	3	25.96	1	SSTD010DL 28463 (2)	X7-19-15
DEL05S40	06/22/2015 15:16	DJC	DSOM01D6	4	25.96	1	SSTD040DL 28467	X7-19-15
DEL06S80	06/22/2015 15:50	DJC	DSOM01D6	5	25.96	1	SSTD080DL 28471	X7-19-15
DEL07S16	06/22/2015 16:24	DJC	DSOM01D6	6	25.96	1	SSTD160DL 28472	X7-19-15
DEL08BLK	06/22/2015 16:58	DJC	DSOM01D6	7	25.96	1	451431 SBLK31	SOIL SOM
DEL09GPC	06/22/2015 17:33	DJC	DSOM01D6	8	25.96	1	451917 GBLK17	SOIL SOM
DEL10F19	06/22/2015 18:07	DJC	DSOM01D6	9	25.96	1	1515725019 F9M97	SOIL SOM
DEL11F20	06/22/2015 18:41	DJC	DSOM01D6	10	25.96	1	1515725020 F9M98	SOIL SOM
DEL12F21	06/22/2015 19:15	DJC	DSOM01D6	11	25.96	1	1515725021 F9M99	SOIL SOM
DEL13S20	06/22/2015 19:49	DJC	DSOM01D6	1	25.96	1	SSTD020L1 28463 DFTPPL1	X7-19-15
DEL14S20	06/22/2015 20:22	DJC	DSOM01D6	1	25.96	1	SSTD020L1 28463 DFTPPL1	X7-19-15
DEL15S20	06/22/2015 20:56	DJC	DSOM01D6	1	25.96	1	SSTD020L1 28463 DFTPPL1	X7-19-15
DEL16F01	06/22/2015 21:34	DJC	DSOM01D6	12	25.96	1	1515725001 F9K00	SOIL SOM
DEL17F02	06/22/2015 22:07	DJC	DSOM01D6	13	25.96	1	1515725002 F9M82	SOIL SOM
DEL18F03	06/22/2015 22:40	DJC	DSOM01D6	14	25.96	1	1515725003 F9M83	SOIL SOM
DEL19F04	06/22/2015 23:14	DJC	DSOM01D6	15	25.96	1	1515725004 F9M84	SOIL SOM
DEL20F05	06/22/2015 23:47	DJC	DSOM01D6	16	25.96	1	1515725005 F9M85 (5)	SOIL SOM
DEL21F06	06/23/2015 00:20	DJC	DSOM01D6	17	25.96	1	1515725006 F9M86 (5)	SOIL SOM
DEL22F07	06/23/2015 00:53	DJC	DSOM01D6	18	25.96	1	1515725007 F9M87	SOIL SOM
DEL23F08	06/23/2015 01:26	DJC	DSOM01D6	19	25.96	1	1515725008 F9M88	SOIL SOM
DEL24F09	06/23/2015 02:00	DJC	DSOM01D6	20	25.96	1	1515725009 F9M89	SOIL SOM
DEL25F10	06/23/2015 02:33	DJC	DSOM01D6	21	25.96	1	1515725010 F9M90	SOIL SOM
DEL26F11	06/23/2015 03:06	DJC	DSOM01D6	22	25.96	1	1515725011 F9M91	SOIL SOM
DEL27F14	06/23/2015 03:40	DJC	DSOM01D6	23	25.96	1	1515725014 F9M92	SOIL SOM
DEL28F15	06/23/2015 04:13	DJC	DSOM01D6	24	25.96	1	1515725015 F9M93	SOIL SOM
DEL29F16	06/23/2015 04:47	DJC	DSOM01D6	25	25.96	1	1515725016 F9M94	SOIL SOM
DEL30F17	06/23/2015 05:21	DJC	DSOM01D6	26	25.96	1	1515725017 F9M95	SOIL SOM
DEL31F18	06/23/2015 05:54	DJC	DSOM01D6	27	25.96	1	1515725018 F9M96	SOIL SOM
DEL32S20	06/23/2015 06:28	DJC	DSOM01D6	28	25.96	1	SSTD020L2 28463 DFTPPL2	X7-19-15
DEL33S20	06/23/2015 07:02	DJC	DSOM01D6	28	25.96	1	SSTD020L2 28463 DFTPPL2	X7-19-15
DEL34S20	06/23/2015 07:36	DJC	DSOM01D6	28	25.96	1	SSTD020L2 28463 DFTPPL2	X7-19-15

DATACHEM LABORATORIES - GC\MS SEMIVOLATILE ANALYSIS
INJECTION LOGBOOK
INSTRUMENT 5975-D

File Name	Date and Time Injected	OP	Method	ALS BOT	Run Length	Dil Fac	Sample name	Misc info
~~DEK01SP4~~	~~06/22/2015 07:10~~	~~SY~~	~~DSOM_SIMJ2~~	~~1~~	~~24.66~~	~~1~~	~~SSTD0.4DK 28434~~	~~X7-19-15~~
~~DEK02SP4~~	~~06/22/2015 07:40~~	~~SY~~	~~DSOM_SIMJ2~~	1	24.66	1	~~SSTD0.4DK 28434~~	~~X7-19-15~~
~~DEL01S20~~	~~06/22/2015 12:31~~	~~DJC~~	~~DSOM01D6~~	~~1~~	~~25.96~~	~~1~~	~~SSTD020DL 28463 DFTPPDL~~	~~X7-19-15~~
DEL02S20	06/22/2015 13:05	DJC	DSOM01D6	1	25.96	1	SSTD020DL 28463 DFTPPDL	X7-19-15
~~DEL03S05~~	06/22/2015 13:39	DJC	DSOM01D6	2	25.96	1	SSTD005DL 28463 (4)	X7-19-15
DEL04S10	06/22/2015 14:13	DJC	DSOM01D6	3	25.96	1	SSTD010DL 28463 (2)	X7-19-15
DEL05S40	06/22/2015 15:16	DJC	DSOM01D6	4	25.96	1	SSTD040DL 28467	X7-19-15
DEL06S80	06/22/2015 15:50	DJC	DSOM01D6	5	25.96	1	SSTD080DL 28471	X7-19-15
DEL07S16	06/22/2015 16:24	DJC	DSOM01D6	6	25.96	1	SSTD160DL 28472	X7-19-15
DEL08BLK	06/22/2015 16:58	DJC	DSOM01D6	7	25.96	1	451431 SBLK31	SOIL SOM
DEL09GPC	06/22/2015 17:33	DJC	DSOM01D6	8	25.96	1	451917 GBLK17	SOIL SOM
DEL10F19	06/22/2015 18:07	DJC	DSOM01D6	9	25.96	1	1515725019 F9M97	SOIL SOM
DEL11F20	06/22/2015 18:41	DJC	DSOM01D6	10	25.96	1	1515725020 F9M98	SOIL SOM
DEL12F21	06/22/2015 19:15	DJC	DSOM01D6	11	25.96	1	1515725021 F9M99	SOIL SOM
DEL13S20	06/22/2015 19:49	DJC	DSOM01D6	1	25.96	1	SSTD020L1 28463 DFTPPL1	X7-19-15
DEL14S20	06/22/2015 20:22	DJC	DSOM01D6	1	25.96	1	SSTD020L1 28463 DFTPPL1	X7-19-15
DEL15S20	06/22/2015 20:56	DJC	DSOM01D6	1	25.96	1	SSTD020L1 28463 DFTPPL1	X7-19-15
DEL16F01	06/22/2015 21:34	DJC	DSOM01D6	12	25.96	1	1515725001 F9K00	SOIL SOM
DEL17F02	06/22/2015 22:07	DJC	DSOM01D6	13	25.96	1	1515725002 F9M82	SOIL SOM
DEL18F03	06/22/2015 22:40	DJC	DSOM01D6	14	25.96	1	1515725003 F9M83	SOIL SOM
DEL19F04	06/22/2015 23:14	DJC	DSOM01D6	15	25.96	1	1515725004 F9M84	SOIL SOM
DEL20F05	06/22/2015 23:47	DJC	DSOM01D6	16	25.96	1	1515725005 F9M85 (5)	SOIL SOM
DEL21F06	06/23/2015 00:20	DJC	DSOM01D6	17	25.96	1	1515725006 F9M86 (5)	SOIL SOM
DEL22F07	06/23/2015 00:53	DJC	DSOM01D6	18	25.96	1	1515725007 F9M87	SOIL SOM
DEL23F08	06/23/2015 01:26	DJC	DSOM01D6	19	25.96	1	1515725008 F9M88	SOIL SOM
DEL24F09	06/23/2015 02:00	DJC	DSOM01D6	20	25.96	1	1515725009 F9M89	SOIL SOM
DEL25F10	06/23/2015 02:33	DJC	DSOM01D6	21	25.96	1	1515725010 F9M90	SOIL SOM
DEL26F11	06/23/2015 03:06	DJC	DSOM01D6	22	25.96	1	1515725011 F9M91	SOIL SOM
DEL27F14	06/23/2015 03:40	DJC	DSOM01D6	23	25.96	1	1515725014 F9M92	SOIL SOM
DEL28F15	06/23/2015 04:13	DJC	DSOM01D6	24	25.96	1	1515725015 F9M93	SOIL SOM
DEL29F16	06/23/2015 04:47	DJC	DSOM01D6	25	25.96	1	1515725016 F9M94	SOIL SOM
DEL30F17	06/23/2015 05:21	DJC	DSOM01D6	26	25.96	1	1515725017 F9M95	SOIL SOM
DEL31F18	06/23/2015 05:54	DJC	DSOM01D6	27	25.96	1	1515725018 F9M96	SOIL SOM
DEL32S20	06/23/2015 06:28	DJC	DSOM01D6	28	25.96	1	SSTD020L2 28463 DFTPPL2	X7-19-15
DEL33S20	06/23/2015 07:02	DJC	DSOM01D6	28	25.96	1	SSTD020L2 28463 DFTPPL2	X7-19-15
DEL34S20	06/23/2015 07:36	DJC	DSOM01D6	28	25.96	1	SSTD020L2 28463 DFTPPL2	X7-19-15

DATACHEM LABORATORIES - GC\MS SEMIVOLATILE ANALYSIS
INJECTION LOGBOOK
INSTRUMENT 5975-D

File Name	Date and Time Injected	OP	Method	ALS BOT	Run Length	Dil Fac	Sample name	Misc info
DEM01S20	06/23/2015 08:20	DJC	DSOM01D6	1	25.96	1	SSTD020DM 28463 DFTPPDM	X7-19-15
DEM02F18	06/23/2015 08:54	DJC	DSOM01D6	2	25.96	1	1515725018 F9M96	SOIL SOM
DEM03S20	06/23/2015 09:28	DJC	DSOM01D6	1	25.96	1	SSTD020M1 28463 DFTPPM1	X7-19-15
~~DEM04S20~~	~~06/23/2015 11:15~~	DJC	DSOM01D6	1	25.96	1	~~SSTD020M1 28463 DFTPPM1~~	~~X7-19-15~~

DATACHEM LABORATORIES - GC\MS SEMIVOLATILE ANALYSIS
INJECTION LOGBOOK
INSTRUMENT 5975-G

File Name	Date and Time Injected	OP	Method	ALS BOT	Run Length	Dil Fac	Sample name	Misc info
GBV01S20	06/20/2015 10:04	DJC	GSOM01D4	1	25.96	1	SSTD020GT DFTPPGT	X07/19/15
GBV02S10	06/20/2015 10:37	DJC	GSOM01D4	2	25.96	1	SSTD010GV 28435	X07/19/15
GBV03S05	06/20/2015 11:10	DJC	GSOM01D4	3	25.96	1	SSTD005GV 28435	X07/19/15
GBV04S10	06/20/2015 11:43	DJC	GSOM01D4	2	25.96	1	SSTD010GV 28435 (2)	X07/19/15
GBV05S20	06/20/2015 12:16	DJC	GSOM01D4	1	25.96	1	SSTD020GV 28435 DFTPPGV	X07/19/15
GBV06S40	06/20/2015 12:49	DJC	GSOM01D4	4	25.96	1	SSTD040GV 28436	X07/19/15
GBV07S80	06/20/2015 13:22	DJC	GSOM01D4	5	25.96	1	SSTD080GV 28437	X07/19/15
GBV08S16	06/20/2015 13:55	DJC	GSOM01D4	6	25.96	1	SSTD160GV 28438	X07/19/15
GBV09BLK	06/20/2015 14:28	DJC	GSOM01D6	7	25.96	1	452426 SBLK26	SOIL SOM
GBV10GPC	06/20/2015 15:01	DJC	GSOM01D6	8	25.96	1	452534 GBLK34	SOIL SOM
GBV11F01	06/20/2015 15:35	DJC	GSOM01D6	9	25.96	1	1515618001 F9M69	SOIL SOM
GBV12F02	06/20/2015 16:08	DJC	GSOM01D6	10	25.96	1	1515618002 F9M70	SOIL SOM
GBV13F03	06/20/2015 16:42	DJC	GSOM01D6	11	25.96	1	1515618003 F9M71	SOIL SOM
GBV14F04	06/20/2015 17:16	DJC	GSOM01D6	12	25.96	1	1515618004 F9M72	SOIL SOM
GBV15F05	06/20/2015 17:49	DJC	GSOM01D6	13	25.96	1	1515618005 F9M73	SOIL SOM
GBV16F06	06/20/2015 18:22	DJC	GSOM01D6	14	25.96	1	1515618006 F9M74	SOIL SOM
GBV17F07	06/20/2015 18:56	DJC	GSOM01D6	15	25.96	1	1515618007 F9M75	SOIL SOM
GBV18F08	06/20/2015 19:29	DJC	GSOM01D6	16	25.96	1	1515618008 F9M76	SOIL SOM
GBV19F09	06/20/2015 20:02	DJC	GSOM01D6	17	25.96	1	1515618009 F9M77	SOIL SOM
GBV20F10	06/20/2015 20:35	DJC	GSOM01D6	18	25.96	1	1515618010 F9M78	SOIL SOM
GBV21F11	06/20/2015 21:07	DJC	GSOM01D6	19	25.96	1	1515618011 F9M79	SOIL SOM
GBV22S20	06/20/2015 21:40	DJC	GSOM01D4	1	25.96	1	SSTD020V1 28435 DFTPPV1	X07/19/15
GBV23S20	06/20/2015 22:12	DJC	GSOM01D4	1	25.96	1	SSTD020V1 28435 DFTPPV1	X07/19/15
GBV24S20	06/20/2015 22:44	DJC	GSOM01D4	1	25.96	1	SSTD020V1 28435 DFTPPV1	X07/19/15
GBV25F01	06/20/2015 23:17	DJC	GSOM01D6	20	25.96	1	1515380001 F9M15 (5)	SOIL SOM
GBV26F04	06/20/2015 23:49	DJC	GSOM01D6	21	25.96	1	1515380004 F9M20	SOIL SOM
GBV27S20	06/21/2015 00:21	DJC	GSOM01D4	1	25.96	1	SSTD020V2 28435 DFTPPV2	X07/19/15
GBV28S20	06/21/2015 00:54	DJC	GSOM01D4	1	25.96	1	SSTD020V2 28435 DFTPPV2	X07/19/15
GBV29S20	06/21/2015 01:26	DJC	GSOM01D4	1	25.96	1	SSTD020V2 28435 DFTPPV2	X07/19/15
GBV30S20	06/21/2015 01:58	DJC	GSOM01D4	1	25.96	1	SSTD020V2 28435 DFTPPV2	X07/19/15

DATACHEM LABORATORIES - GC\MS SEMIVOLATILE ANALYSIS
INJECTION LOGBOOK
INSTRUMENT 5975-G

File Name	Date and Time Injected	OP	Method	ALS BOT	Run Length	Dil Fac	Sample name	Misc info
GCB01S20	06/23/2015 17:03	TJM	GSOM01D6	1	25.96	1	SSTD020GB DFTPPB1 28435	X07/19/15
GCB02F00	06/23/2015 17:37	TJM	GSOM01D6	24	25.96	1	1515725001 F9K00	SOIL SOM
GCB03F82	06/23/2015 18:11	TJM	GSOM01D6	25	25.96	1	1515725002 F9M82	SOIL SOM
GCB04F83	06/23/2015 18:44	TJM	GSOM01D6	26	25.96	1	1515725003 F9M83	SOIL SOM
GCB05F84	06/23/2015 19:18	TJM	GSOM01D6	27	25.96	1	1515725004 F9M84	SOIL SOM
GCB06F85	06/23/2015 19:51	TJM	GSOM01D6	28	25.96	1	1515725005 F9M85	SOIL SOM
GCB07F86	06/23/2015 20:25	TJM	GSOM01D6	29	25.96	1	~~1515725006 F9M86~~	SOIL SOM
GCB08F87	06/23/2015 20:58	TJM	GSOM01D6	30	25.96	1	~~1515725007 F9M87~~	SOIL SOM
GCB09F88	06/23/2015 21:31	TJM	GSOM01D6	31	25.96	1	~~1515725008 F9M88~~	SOIL SOM
GCB10F89	06/23/2015 22:03	TJM	GSOM01D6	32	25.96	1	1515725009 F9M89	SOIL SOM
GCB11F90	06/23/2015 22:36	TJM	GSOM01D6	33	25.96	1	1515725010 F9M90	SOIL SOM
GCB12F91	06/23/2015 23:08	TJM	GSOM01D6	34	25.96	1	~~1515725011 F9M91~~	SOIL SOM
GCB13F92	06/23/2015 23:40	TJM	GSOM01D6	35	25.96	1	~~1515725014 F9M92~~	SOIL SOM
GCB14F93	06/24/2015 00:12	TJM	GSOM01D6	36	25.96	1	~~1515725015 F9M93~~	SOIL SOM
GCB15F94	06/24/2015 00:45	TJM	GSOM01D6	37	25.96	1	1515725016 F9M94	SOIL SOM
GCB16F95	06/24/2015 01:17	TJM	GSOM01D6	38	25.96	1	~~1515725017 F9M95~~	SOIL SOM
GCB17S20	06/24/2015 01:49	TJM	GSOM01D6	1	25.96	1	~~SSTD020GB DFTPPB1 28435~~	X07/19/15
GCB18S20	06/24/2015 02:21	TJM	GSOM01D6	1	25.96	1	~~SSTD020GB DFTPPB1 28435~~	X07/19/15
GCB19S20	06/24/2015 02:54	TJM	GSOM01D6	1	25.96	1	~~SSTD020GB DFTPPB1 28435~~	X07/19/15
GCB20S20	06/24/2015 03:26	TJM	GSOM01D6	1	25.96	1	SSTD020GB DFTPPB1 28435	X07/19/15

DATACHEM LABORATORIES - GC\MS SEMIVOLATILE ANALYSIS
INJECTION LOGBOOK
INSTRUMENT 5975-G

File Name	Date and Time Injected	OP	Method	ALS BOT	Run Length	Dil Fac	Sample name	Misc info
~~GCC01S20~~	~~06/24/2015 06:37~~	~~SY~~	~~GSOM01D6~~	~~1~~	~~25.96~~	~~1~~	~~SSTD020GC DFTPPGC 28435~~	~~X07/19/15~~
~~GCC02F96~~	~~06/24/2015 07:10~~	~~SY~~	~~GSOM01D6~~	~~2~~	~~25.96~~	~~1~~	~~1515725018 F9M96~~	~~SOIL SOM~~
~~GCC03F97~~	~~06/24/2015 07:43~~	~~SY~~	~~GSOM01D6~~	~~3~~	~~25.96~~	~~1~~	~~1515725019 F9M97~~	~~SOIL SOM~~
GCC04S20	06/24/2015 08:34	SY	GSOM01D6	1	25.96	1	SSTD020GC DFTPPGC 28435	X07/19/15
GCC05F86	06/24/2015 09:07	SY	GSOM01D6	4	25.96	1	1515725006 F9M86	SOIL SOM
GCC06F87	06/24/2015 09:40	SY	GSOM01D6	5	25.96	1	1515725007 F9M87	SOIL SOM
GCC07F88	06/24/2015 10:13	SY	GSOM01D6	6	25.96	1	1515725008 F9M88	SOIL SOM
GCC08F91	06/24/2015 10:47	SY	GSOM01D6	7	25.96	1	1515725011 F9M91	SOIL SOM
GCC09F92	06/24/2015 11:20	SY	GSOM01D6	8	25.96	1	1515725014 F9M92	SOIL SOM
GCC10F94	06/24/2015 11:53	SY	GSOM01D6	9	25.96	1	1515725015 F9M94	SOIL SOM
GCC11F95	06/24/2015 12:26	SY	GSOM01D6	10	25.96	1	1515725017 F9M95	SOIL SOM
GCC12S20	06/24/2015 13:00	SY	GSOM01D6	1	25.96	1	SSTD020C1 DFTPPC1 28435	X07/19/15

Batch Worklist

Batch: ENVX/ 21803 Created: 6/15/2015 06:04 Instrument: HBN: 150479

Rule: Sonication Extrn, SVOA Analyst: L. Edwards Status: NA

Workorder: 1515725 SDG: F9K00 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	451431	MB for HBN 150479 [ENVX/21803]	30.00 g	0.5 mL		MB	4		SNCTNSV.4P	6158	6/25/2015	6/6/2015	
2	1515725001	F9K00	30.08 g			SAMPLE	4	1515725001-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
3	1515725002	F9M82	30.41 g			SAMPLE	4	1515725002-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
4	1515725003	F9M83	30.04 g			SAMPLE	4	1515725003-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
5	1515725004	F9M84	30.23 g			SAMPLE	4	1515725004-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
6	1515725005	F9M85	30.47 g			SAMPLE	4	1515725005-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
7	1515725006	F9M86	30.21 g			SAMPLE	4	1515725006-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
8	1515725007	F9M87	30.08 g			SAMPLE	4	1515725007-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
9	1515725008	F9M88	30.16 g			SAMPLE	4	1515725008-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
10	1515725009	F9M89	30.26 g			SAMPLE	4	1515725009-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
11	1515725010	F9M90	30.43 g			SAMPLE	4	1515725010-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
12	1515725011	F9M91	30.40 g			SAMPLE	4	1515725011-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
13	1515725014	F9M92	30.16 g			SAMPLE	4	1515725014-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
14	1515725015	F9M93	30.00 g			SAMPLE	4	1515725015-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
15	1515725016	F9M94	30.05 g			SAMPLE	4	1515725016-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
16	1515725017	F9M95	30.26 g			SAMPLE	4	1515725017-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
17	1515725018	F9M96	30.12 g			SAMPLE	4	1515725018-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
18	1515725019	F9M97	30.01 g			SAMPLE	4	1515725019-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
19	1515725020	F9M98	30.40 g			SAMPLE	4	1515725020-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
20	1515725021	F9M99	30.03 g			SAMPLE	4	1515725021-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	

MC

Some SV

ORGANIC EXTRACTION LOGBOOK ALS GROUP USA, Corp

Client Sonication Extrn Case/SDG # 45316/F91600 Horizon Extraction HBN 156479

Work Order# 1815725 Sample #'s 1-21 Extraction Method SOM01.2

SOP: OE-EP-80M Analytical Fraction SV/SV-SIM Matrix SOIL

Date samples weighed out 6/15/15 by Lyle Edwards balance # 120212665

See extraction batch sheet for sample weights/volumes, initial pH's (waters), and final concentration volumes.

Extraction: Date/Time 6/15/15 1300 Stop Date/Time (CLLE's/Soxlet) ——— Extracted by GS

	Drying Agent	Salt	Solvents		Exchange Solvent
Solvent/Reagent used	☑ Na_2SO_4 ☐ N/A	☐ NaCl ☐ N/A	☐ CH_2Cl_2 ☐ Hexane ☐ Acetonitrile ☐ Hexane/Ether ( ) ☑ CH_2Cl_2/Acetone (1:1)		☐ Hexane ☐ Toluene ☑ N/A ☐ CH_2Cl_2
Vendor	JT Baker		JT Baker	B.J	
Lot Number	1898		98930	DM245	
Amount	per SOP		per SOP	per SOP	

	Surrogate/DMC STD	LCS Standard	MS/MSD Standard	RLVS Standard
Standard ID	27950			
Spiked Amount	1 mL			
Spiked By	PL			

	Acid Solution	Base Solution		
Standard ID				
Spiked Amount *				
pH Adjustment *				
Spiked By				

* exceptions are noted in comments below

Comments ———

Pre-GPC Concentration: Date/Time 6/15/15 13:00 by mjc Comments The Temp was 66°C

Final Concentration: Date/Time 6/16/15 11:00 by mjc Comments The Temp was 67°C

Florisil (pesticides only) Date/Time — by — Florisil Column Lot # —

Comments ———

Checker Signature Lyle Edwards Date 6/16/15

Batch Worklist

Batch: ENVX/ 21820 Created: 6/16/2015 15:24 Instrument: GPC06 HBN: 150643

Rule: GPC SVOA Analyst: L. Edwards Status: NA

Workorder: 1515725 SDG: F9K00 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	451917	GB for HBN 150643 [ENVX/21820]				GB	4		E.GPC.SV.P	6158		6/12/2015	6/15/2015
2	451431	MB for HBN 150479 [ENVX/21803]	30 grams	.5 mL		MB	4		E.GPC.SV.P	6158		6/12/2015	6/15/2015
3	1515725001	F9K00	30.08 grams	.5 mL		SAMPLE	4	1515725001-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
4	1515725002	F9M82	30.41 grams	.5 mL		SAMPLE	4	1515725002-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
5	1515725003	F9M83	30.04 grams	.5 mL		SAMPLE	4	1515725003-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
6	1515725004	F9M84	30.23 grams	.5 mL		SAMPLE	4	1515725004-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
7	1515725005	F9M85	30.47 grams	.5 mL		SAMPLE	4	1515725005-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
8	1515725006	F9M86	30.21 grams	.5 mL		SAMPLE	4	1515725006-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
9	1515725007	F9M87	30.08 grams	.5 mL		SAMPLE	4	1515725007-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
10	1515725008	F9M88	30.16 grams	.5 mL		SAMPLE	4	1515725008-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
11	1515725009	F9M89	30.26 grams	.5 mL		SAMPLE	4	1515725009-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
12	1515725010	F9M90	30.43 grams	.5 mL		SAMPLE	4	1515725010-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
13	1515725011	F9M91	30.4 grams	.5 mL		SAMPLE	4	1515725011-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
14	1515725014	F9M92	30.16 grams	.5 mL		SAMPLE	4	1515725014-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
15	1515725015	F9M93	30 grams	.5 mL		SAMPLE	4	1515725015-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
16	1515725016	F9M94	30.05 grams	.5 mL		SAMPLE	4	1515725016-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
17	1515725017	F9M95	30.26 grams	.5 mL		SAMPLE	4	1515725017-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
18	1515725018	F9M96	30.12 grams	.5 mL		SAMPLE	4	1515725018-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
19	1515725019	F9M97	30.01 grams	.5 mL		SAMPLE	4	1515725019-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
20	1515725020	F9M98	30.4 grams	.5 mL		SAMPLE	4	1515725020-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
21	1515725021	F9M99	30.03 grams	.5 mL		SAMPLE	4	1515725021-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015

ALS Laboratory Group GPC Injection Logbook

Method:	**SOM01.2**	**Analytical Method**	**SVOA**	**Work Order ID:**	**1515725**	**Horizon Batch ID:**	**150643**
Account:	**08201**	**Instrument ID:**	**GPC07**	**Column ID:**	**8171860-3 545929-11**	**Flow Rate:**	**5mL/min.**
Load Date:	**6/15/15**	**Load Time:**	**16:56**	**Pressure (PSI)**	**150**	**PST/ARO Weekly ID:**	

Position	ALS Sample ID	Client Sample ID	Sample Notes/Comments
1	451917	GPC07 Blank	
2	1515725001	F9K00	
3	1515725002	F9K82	
4	1515725003	F9K83	
5	1515725004	F9K84	
6	1515725005	F9K85	
7	1515725006	F9K86	
8	1515725007	F9K87	
9	1515725008	F9K88	
10	1515725009	F9K89	
11	1515725010	F9K90	
12	1515725011	F9K91	
13	1515725014	F9K92	
14	1515725015	F9K93	
15	1515725016	F9K94	
16	1515725017	F9K95	
17	1515725018	F9K96	
18	1515725019	F9K97	
19	1515725020	F9K98	
20	1515725021	F9K99	
21	Rinse		Column Wash
22	451431	MB for HBN 150479	
23	Rinse		Column Wash

$MeCl_2$ Lot:	**97623**	**General Comments:**
Dump Time (min.):	**15.9**	if noted above - 1:10 dilutions made to protect GPC column
Collect Time (min.):	**29.3**	Analyst - Lyle Edwards
Wash Time(min.):	**10**	
GPC Standard ID:	**195WS38822**	

Batch Worklist

Batch: ESVO/ 5002 Created: 6/25/2015 12:38 Instrument: 5975-D HBN: 151249

Rule: SOM SVOA SIM, Soil Analyst: S. Yourstone Status: WP

Workorder: 1515725 SDG: F9K00 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	451431	MB for HBN 150479 [ENVX/21803]	30 grams	.5 mL		MB	4		SOMSVOASS4	6158	7/27/2015	6/25/2015	6/25/2015
2	1515725001	F9K00	30.08 grams	.5 mL		SAMPLE	4	1515725001-C	S12SVOASS4	5936	7/27/2015	6/25/2015	6/25/2015
3	1515725002	F9M82	30.41 grams	.5 mL		SAMPLE	4	1515725002-C	S12SVOASS4	5936	7/27/2015	6/25/2015	6/25/2015
4	1515725003	F9M83	30.04 grams	.5 mL		SAMPLE	4	1515725003-C	S12SVOASS4	5936	7/27/2015	6/25/2015	6/25/2015
5	1515725004	F9M84	30.23 grams	.5 mL		SAMPLE	4	1515725004-C	S12SVOASS4	5936	7/27/2015	6/25/2015	6/25/2015
6	1515725005	F9M85	30.47 grams	.5 mL		SAMPLE	4	1515725005-C	S12SVOASS4	5936	7/27/2015	6/25/2015	6/25/2015
7	1515725006	F9M86	30.21 grams	.5 mL		SAMPLE	4	1515725006-C	S12SVOASS4	5936	7/27/2015	6/25/2015	6/25/2015
8	1515725007	F9M87	30.08 grams	.5 mL		SAMPLE	4	1515725007-C	S12SVOASS4	5936	7/27/2015	6/25/2015	6/25/2015
9	1515725008	F9M88	30.16 grams	.5 mL		SAMPLE	4	1515725008-C	S12SVOASS4	5936	7/27/2015	6/25/2015	6/25/2015
10	1515725009	F9M89	30.26 grams	.5 mL		SAMPLE	4	1515725009-C	S12SVOASS4	5936	7/27/2015	6/25/2015	6/25/2015
11	1515725010	F9M90	30.43 grams	.5 mL		SAMPLE	4	1515725010-C	S12SVOASS4	5936	7/27/2015	6/25/2015	6/25/2015
12	1515725011	F9M91	30.4 grams	.5 mL		SAMPLE	4	1515725011-C	S12SVOASS4	5936	7/27/2015	6/25/2015	6/25/2015
13	1515725014	F9M92	30.16 grams	.5 mL		SAMPLE	4	1515725014-C	S12SVOASS4	5936	7/27/2015	6/25/2015	6/25/2015
14	1515725015	F9M93	30 grams	.5 mL		SAMPLE	4	1515725015-C	S12SVOASS4	5936	7/27/2015	6/25/2015	6/25/2015
15	1515725016	F9M94	30.05 grams	.5 mL		SAMPLE	4	1515725016-C	S12SVOASS4	5936	7/27/2015	6/25/2015	6/25/2015
16	1515725017	F9M95	30.26 grams	.5 mL		SAMPLE	4	1515725017-C	S12SVOASS4	5936	7/27/2015	6/25/2015	6/25/2015
17	1515725018	F9M96	30.12 grams	.5 mL		SAMPLE	4	1515725018-C	S12SVOASS4	5936	7/27/2015	6/25/2015	6/25/2015
18	1515725019	F9M97	30.01 grams	.5 mL		SAMPLE	4	1515725019-C	S12SVOASS4	5936	7/27/2015	6/25/2015	6/25/2015
19	1515725020	F9M98	30.4 grams	.5 mL		SAMPLE	4	1515725020-C	S12SVOASS4	5936	7/27/2015	6/25/2015	6/25/2015
20	1515725021	F9M99	30.03 grams	.5 mL		SAMPLE	4	1515725021-C	S12SVOASS4	5936	7/27/2015	6/25/2015	6/25/2015

DATACHEM LABORATORIES - GC\MS SEMIVOLATILE ANALYSIS
INJECTION LOGBOOK
INSTRUMENT 5975-D

File Name	Date and Time Injected	OP	Method	ALS BOT	Run Length	Dil Fac	Sample name	Misc info
DDG01SP1	03/25/2015 09:26	DJC	DSOM_SIMJ1	1	24.66	1	SSTD0.1DG 27491	X:04/24/15
DDG02SP2	03/25/2015 09:55	DJC	DSOM_SIMJ1	2	24.66	1	SSTD0.2DG 27492	X:04/24/15
DDG03SP4	03/25/2015 10:25	DJC	DSOM_SIMJ1	3	24.66	1	SSTD0.4DG 27493	X:04/24/15
DDG04SP8	03/25/2015 10:55	DJC	DSOM_SIMJ1	4	24.66	1	SSTD0.8DG 27494	X:04/24/15
DDG05S01	03/25/2015 11:25	DJC	DSOM_SIMJ1	5	24.66	1	SSTD001DG 27495	X:04/24/15
DDG06S16	03/25/2015 11:55	DJC	DSOM_SIMJ1	6	24.66	1	SSTD1.6DG 27496	X:04/24/15
DDG07S32	03/25/2015 12:25	DJC	DSOM_SIMJ1	7	24.66	1	SSTD3.2DG 27497	X:04/24/15
DDG08GPC	03/25/2015 12:55	DJC	DSOM_SIMJ1	8	24.66	1	437579 GPCBLK	SOIL SIM
DDG09BLK	03/25/2015 13:24	DJC	DSOM_SIMJ1	9	24.66	1	437348 SBLK48	SOIL SIM
DDG10BLK	03/25/2015 13:54	DJC	DSOM_SIMJ1	10	24.66	1	437978 SBLK78	WATER SIM
DDG11C03	03/25/2015 14:24	DJC	DSOM_SIMJ1	11	24.66	1	1506563003 X1K60	SOIL SIM
DDG12C03	03/25/2015 14:54	DJC	DSOM_SIMJ1	12	24.66	1	1506558003 X1K55	WATER SIM
DDG13C03	03/25/2015 15:23	DJC	DSOM_SIMJ1	13	24.66	1	1506558003 X1K55 (3)	WATER SIM
DDG14SP4	03/25/2015 15:53	DJC	DSOM_SIMJ1	3	24.66	1	SSTD0.4G1 27493	X:04/24/15
DDG15GPC	03/25/2015 16:23	DJC	DSOM_SIMJ1	14	24.66	1	438538 GPCBLK	SOIL SIM
DDG16BLK	03/25/2015 16:53	DJC	DSOM_SIMJ1	15	24.66	1	438356 SBLK56	SOIL SIM
DDG17BLK	03/25/2015 17:23	DJC	DSOM_SIMJ1	16	24.66	1	438649 SBLK49	WATER SIM
DDG18C03	03/25/2015 17:53	DJC	DSOM_SIMJ1	17	24.66	1	1507830003 X1L96	SOIL SIM
DDG19C03	03/25/2015 18:22	DJC	DSOM_SIMJ1	18	24.66	1	1507829003 X1L91	WATER SIM
DDG20C03	03/25/2015 18:52	DJC	DSOM_SIMJ1	19	24.66	1	1507829003 X1L91 (3)	WATER SIM
DDG21SP4	03/25/2015 19:22	DJC	DSOM_SIMJ1	3	24.66	1	SSTD0.4G2 27493	X:04/24/15
DDG22SP4	03/25/2015 19:52	DJC	DSOM_SIMJ1	3	24.66	1	SSTD0.4G2 27493	X:04/24/15
DDH01S20	03/25/2015 20:24	DJC	DSOM03NEW	21	25.96	1	SSTD020DH 27500 DFTPPDH	X:04/24/15
DDH02S05	03/25/2015 20:57	DJC	DSOM03NEW	22	25.96	1	SSTD005DH 27498	X:04/24/15
DDH03S10	03/25/2015 21:31	DJC	DSOM03NEW	23	25.96	1	SSTD010DH 27499	X:04/24/15
DDH04S40	03/25/2015 22:04	DJC	DSOM03NEW	24	25.96	1	SSTD040DH 27502	X:04/24/15
DDH05S80	03/25/2015 22:37	DJC	DSOM03NEW	25	25.96	1	SSTD080DH 27503	X:04/24/15
DDH06S16	03/25/2015 23:10	DJC	DSOM03NEW	26	25.96	1	SSTD160DH 27504	X:04/24/15
DDH07GPC	03/25/2015 23:44	DJC	DSOM03NEW	27	25.96	1	437579 GPCBLK	SOIL SOM
DDH08BLK	03/26/2015 00:17	DJC	DSOM03NEW	28	25.96	1	437348 SBLK48	SOIL SOM
DDH09BLK	03/26/2015 00:50	DJC	DSOM03NEW	29	25.96	1	437978 SBLK78	WATER SOM
DDH10C02	03/26/2015 01:23	DJC	DSOM03NEW	30	25.96	1	1506563002 X1K59	SOIL SOM
DDH11C02	03/26/2015 01:56	DJC	DSOM03NEW	31	25.96	1	1506558002 X1K54	WATER SOM
DDH12S20	03/26/2015 02:29	DJC	DSOM03NEW	21	25.96	1	SSTD020H1 27500 DFTPPH1	X:04/24/15
DDH13S20	03/26/2015 03:02	DJC	DSOM03NEW	21	25.96	1	SSTD020H1 27500 DFTPPH1	X:04/24/15

DATACHEM LABORATORIES - GC\MS SEMIVOLATILE ANALYSIS
INJECTION LOGBOOK
INSTRUMENT 5975-D

File Name	Date and Time Injected	OP	Method	ALS BOT	Run Length	Dil Fac	Sample name	Misc info
DEN01SP1	06/23/2015 11:58	DJC	DSOM1_SIMJ3	1	24.66	1	SSTD0.1DN 28475	X7-19-15
DEN02SP2	06/23/2015 12:28	DJC	DSOM1_SIMJ3	2	24.66	1	SSTD0.2DN 28476	X7-19-15
DEN03SP4	06/23/2015 12:58	DJC	DSOM1_SIMJ3	3	24.66	1	SSTD0.4DN 28477	X7-19-15
DEN04SP8	06/23/2015 13:29	DJC	DSOM1_SIMJ3	4	24.66	1	SSTD0.8DN 28478	X7-19-15
DEN05S01	06/23/2015 13:59	DJC	DSOM1_SIMJ3	5	24.66	1	SSTD001DN 28479	X7-19-15
DEN06S16	06/23/2015 14:29	DJC	DSOM1_SIMJ3	6	24.66	1	SSTD1.6DN 28480	X7-19-15
DEN07S32	06/23/2015 14:59	DJC	DSOM1_SIMJ3	7	24.66	1	SSTD3.2DN 28481	X7-19-15
DEP01SP4	06/23/2015 15:30	DJC	DSOM1_SIMJ3	3	24.66	1	SSTD0.4DP 28477	X7-19-15
DEP02BLK	06/23/2015 16:00	DJC	DSOM1_SIMJ3	2	24.66	1	450969 SBLK69	SOIL SIM
DEP03GPC	06/23/2015 16:31	DJC	DSOM1_SIMJ3	3	24.66	1	451818 GBLK18	SOIL SIM
DEP04F01	06/23/2015 17:01	DJC	DSOM_SIMJ2	4	24.66	1	1515605001 F9M48	SOIL SIM
DEP05F04	06/23/2015 17:31	DJC	DSOM_SIMJ2	5	24.66	1	1515605004 F9M49	SOIL SIM
DEP06F05	06/23/2015 18:02	DJC	DSOM_SIMJ2	6	24.66	1	1515605005 F9M50	SOIL SIM
DEP07F06	06/23/2015 18:32	DJC	DSOM_SIMJ2	7	24.66	1	1515605006 F9M51	SOIL SIM
DEP08F07	06/23/2015 19:02	DJC	DSOM_SIMJ2	8	24.66	1	1515605007 F9M52	SOIL SIM
DEP09F08	06/23/2015 19:33	DJC	DSOM_SIMJ2	9	24.66	1	1515605008 F9M54	SOIL SIM
DEP10F09	06/23/2015 20:03	DJC	DSOM_SIMJ2	10	24.66	1	1515605009 F9M55	SOIL SIM
DEP11F10	06/23/2015 20:33	DJC	DSOM_SIMJ2	11	24.66	1	1515605010 F9M56	SOIL SIM
DEP12F11	06/23/2015 21:03	DJC	DSOM_SIMJ2	12	24.66	1	1515605011 F9M57	SOIL SIM
DEP13F12	06/23/2015 21:33	DJC	DSOM_SIMJ2	13	24.66	1	1515605012 F9M58	SOIL SIM
DEP14F13	06/23/2015 22:03	DJC	DSOM_SIMJ2	14	24.66	1	1515605013 F9M59	SOIL SIM
DEP15F14	06/23/2015 22:33	DJC	DSOM_SIMJ2	15	24.66	1	1515605014 F9M60	SOIL SIM
DEP16F15	06/23/2015 23:03	DJC	DSOM_SIMJ2	16	24.66	1	1515605015 F9M61	SOIL SIM
DEP17F16	06/23/2015 23:33	DJC	DSOM_SIMJ2	17	24.66	1	1515605016 F9M62	SOIL SIM
DEP18F17	06/24/2015 00:03	DJC	DSOM_SIMJ2	18	24.66	1	1515605017 F9M63	SOIL SIM
DEP19SP4	06/24/2015 00:32	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4P1 28477	X7-19-15
DEP20SP4	06/24/2015 01:02	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4P2 28477	X7-19-15
DEP21F18	06/24/2015 01:32	DJC	DSOM_SIMJ2	19	24.66	1	1515605018 F9M64	SOIL SIM
DEP22F19	06/24/2015 02:01	DJC	DSOM_SIMJ2	20	24.66	1	1515605019 F9M65	SOIL SIM
DEP23F20	06/24/2015 02:31	DJC	DSOM_SIMJ2	21	24.66	1	1515605020 F9M66	SOIL SIM
DEP24F21	06/24/2015 03:01	DJC	DSOM_SIMJ2	22	24.66	1	1515605021 F9M67	SOIL SIM
DEP25F22	06/24/2015 03:31	DJC	DSOM_SIMJ2	23	24.66	1	1515605022 F9M68	SOIL SIM
DEP26SP4	06/24/2015 04:00	DJC	DSOM_SIMJ2	24	24.66	1	SSTD0.4P3 28477	X7-19-15
DEP27SP4	06/24/2015 04:30	DJC	DSOM_SIMJ2	24	24.66	1	SSTD0.4P3 28477	X7-19-15
DEP28BLK	06/24/2015 05:00	DJC	DSOM_SIMJ2	25	24.66	1	451431 SBLK31	SOIL SIM
DEP29GPC	06/24/2015 05:30	DJC	DSOM_SIMJ2	26	24.66	1	451917 GBLK17	SOIL SIM

DATACHEM LABORATORIES - GC\MS SEMIVOLATILE ANALYSIS
INJECTION LOGBOOK
INSTRUMENT 5975-D

File Name	Date and Time Injected	OP	Method	ALS BOT	Run Length	Dil Fac	Sample name	Misc info
DEP30F01	06/24/2015 06:00	DJC	DSOM_SIMJ2	27	24.66	1	1515725001 F9K00	SOIL SIM
DEP31F02	06/24/2015 06:30	DJC	DSOM_SIMJ2	28	24.66	1	1515725002 F9M82	SOIL SIM
DEP32F03	06/24/2015 07:00	DJC	DSOM_SIMJ2	29	24.66	1	1515725003 F9M83	SOIL SIM
DEP33F04	06/24/2015 07:30	DJC	DSOM_SIMJ2	30	24.66	1	1515725004 F9M84	SOIL SIM
DEP34F05	06/24/2015 08:01	DJC	DSOM_SIMJ2	31	24.66	1	1515725005 F9M85	SOIL SIM
DEP35F06	06/24/2015 08:31	DJC	DSOM_SIMJ2	32	24.66	1	1515725006 F9M86	SOIL SIM
DEP36F07	06/24/2015 09:01	DJC	DSOM_SIMJ2	33	24.66	1	1515725007 F9M87	SOIL SIM
DEP37F08	06/24/2015 09:31	DJC	DSOM_SIMJ2	34	24.66	1	1515725008 F9M88	SOIL SIM
DEP38F09	06/24/2015 10:01	DJC	DSOM_SIMJ2	35	24.66	1	1515725009 F9M89	SOIL SIM
DEP39F10	06/24/2015 10:31	DJC	DSOM_SIMJ2	36	24.66	1	1515725010 F9M90	SOIL SIM
DEP40F11	06/24/2015 11:01	DJC	DSOM_SIMJ2	37	24.66	1	1515725011 F9M91	SOIL SIM
DEP41F14	06/24/2015 11:32	DJC	DSOM_SIMJ2	38	24.66	1	1515725014 F9M92	SOIL SIM
DEP42BLK	06/24/2015 12:02	DJC	DSOM_SIMJ2	25	24.66	1	451431 SBLK31	SOIL SIM
DEP43F15	06/24/2015 12:33	DJC	DSOM_SIMJ2	39	24.66	1	1515725015 F9M93	SOIL SIM
DEP44F16	06/24/2015 13:03	DJC	DSOM_SIMJ2	40	24.66	1	1515725016 F9M94	SOIL SIM
DEP45F17	06/24/2015 13:33	DJC	DSOM_SIMJ2	41	24.66	1	1515725017 F9M95	SOIL SIM
DEP46SP4	06/24/2015 14:04	DJC	DSOM_SIMJ2	46	24.66	1	SSTD0.4P4 28477	X7-19-15
~~DEP47SP4~~	~~06/24/2015 14:35~~	~~DJC~~	~~DSOM_SIMJ2~~	~~46~~	~~24.66~~	~~1~~	~~SSTD0.4P4 28477~~	~~X7-19-15 clean 1~~
~~DEP48SP4~~	~~06/24/2015 15:05~~	~~DJC~~	~~DSOM_SIMJ2~~	~~46~~	~~24.66~~	~~1~~	~~SSTD0.4P4 28477~~	~~X7-19-15 clean~~ 1

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DATACHEM LABORATORIES - GC\MS SEMIVOLATILE ANALYSIS
INJECTION LOGBOOK
INSTRUMENT 5975-D

File Name	Date and Time Injected	OP	Method	ALS BOT	Run Length	Dil Fac	Sample name	Misc info
DEQ01SP4	06/25/2015 09:03	DJC	DSOM_SIMJ2	46	24.66	1	SSTD0.4P4 28477	X7-19-15 clean 1
DEQ02F18	06/25/2015 09:33	DJC	DSOM_SIMJ2	42	24.66	1	1515725018 F9M96	SOIL SIM
~~DEQ03F19~~	~~06/25/2015 10:03~~	~~DJC~~	~~DSOM_SIMJ2~~	~~43~~	~~24.66~~	~~1~~	~~1515725019 F9M97 (4)~~	~~SOIL SIM~~
DEQ04F20	06/25/2015 10:34	DJC	DSOM_SIMJ2	44	24.66	1	1515725020 F9M98	SOIL SIM
DEQ05F21	06/25/2015 11:04	DJC	DSOM_SIMJ2	45	24.66	1	1515725021 F9M99	SOIL SIM
DEQ06F19	06/25/2015 11:34	DJC	DSOM_SIMJ2	43	24.66	1	1515725019 F9M97 (4)	SOIL SIM
DEQ07SP4	06/25/2015 12:04	DJC	DSOM_SIMJ2	46	24.66	1	SSTD0.4P5 28477	X7-19-15

EPA-CLP

Batch Worklist

Batch: ENVX/ 21803 **Created:** 6/15/2015 06:04 **Instrument:** **HBN:** 150479

Rule: Sonication Extrn, SVOA **Analyst:** L. Edwards **Status:** NA

Workorder: 1515725 **SDG:** F9K00 **Case:** 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	451431	MB for HBN 150479 [ENVX/21803]	30.00 g	0.5 mL		MB	4		SNCTNSV.4P	6158	6/25/2015	6/6/2015	
2	1515725001	F9K00	30.08 g			SAMPLE	4	1515725001-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
3	1515725002	F9M82	30.41 g			SAMPLE	4	1515725002-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
4	1515725003	F9M83	30.04 g			SAMPLE	4	1515725003-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
5	1515725004	F9M84	30.23 g			SAMPLE	4	1515725004-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
6	1515725005	F9M85	30.47 g			SAMPLE	4	1515725005-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
7	1515725006	F9M86	30.21 g			SAMPLE	4	1515725006-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
8	1515725007	F9M87	30.08 g			SAMPLE	4	1515725007-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
9	1515725008	F9M88	30.16 g			SAMPLE	4	1515725008-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
10	1515725009	F9M89	30.26 g			SAMPLE	4	1515725009-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
11	1515725010	F9M90	30.43 g			SAMPLE	4	1515725010-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
12	1515725011	F9M91	30.40 g			SAMPLE	4	1515725011-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
13	1515725014	F9M92	30.16 g			SAMPLE	4	1515725014-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
14	1515725015	F9M93	30.00 g			SAMPLE	4	1515725015-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
15	1515725016	F9M94	30.05 g			SAMPLE	4	1515725016-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
16	1515725017	F9M95	30.26 g			SAMPLE	4	1515725017-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
17	1515725018	F9M96	30.12 g			SAMPLE	4	1515725018-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
18	1515725019	F9M97	30.01 g			SAMPLE	4	1515725019-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
19	1515725020	F9M98	30.40 g			SAMPLE	4	1515725020-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	
20	1515725021	F9M99	30.03 g			SAMPLE	4	1515725021-C	SNCTNSV.4P	5936	6/15/2015	6/6/2015	

mjc

Some SV

ORGANIC EXTRACTION LOGBOOK ALS GROUP USA, Corp

Client Sonication Extrn Case/SDG # 45316/F91606 Horizon Extraction HBN 156479

Work Order# 1815725 Sample #'s 1-21 Extraction Method SOM01.2

SOP: OE-SP-80M Analytical Fraction SV/SV-SIM Matrix SOIL

Date samples weighed out 6/15/15 by Lyle Edwards balance # 1202126G5

See extraction batch sheet for sample weights/volumes, initial pH's (waters), and final concentration volumes.

Extraction: Date/Time 6/15/15 1300 Stop Date/Time (CLLE's/Soxlet) ——— Extracted by LE

	Drying Agent	Salt	Solvents		Exchange Solvent
Solvent/Reagent used	☑ Na_2SO_4 ☐ N/A	☐ NaCl ☐ N/A	☐ CH_2Cl_2 ☐ Hexane ☐ Acetonitrile ☐ Hexane/Ether ( ) ☑ CH_2Cl_2/Acetone (1:1)		☐ Hexane ☐ Toluene ☑ N/A ☐ CH_2Cl_2
Vendor	JT Baker		JT Baker	B.J	
Lot Number	1898		98930	DM245	
Amount	per SOP		per SOP	per SOP	

	Surrogate/DMC STD	LCS Standard	MS/MSD Standard	RLVS Standard
Standard ID	27950			
Spiked Amount	1 mL			
Spiked By	PL			

	Acid Solution	Base Solution		
Standard ID				
Spiked Amount *				
pH Adjustment *				
Spiked By				

* exceptions are noted in comments below

Comments ———

Pre-GPC Concentration: Date/Time 6/15/15 13:00 by mjc Comments The Temp was 66°C

Final Concentration: Date/Time 6/16/15 11:00 by mjc Comments The Temp was 67°C

Florisil (pesticides only) Date/Time — by — Florisil Column Lot # —

Comments ———

Checker Signature LE Date 6/16/15

Batch Worklist

Batch: ENVX/ 21820 **Created:** 6/16/2015 15:24 **Instrument:** GPC06 **HBN:** 150643

Rule: GPC SVOA **Analyst:** L. Edwards **Status:** NA

Workorder: 1515725 **SDG:** F9K00 **Case:** 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	451917	GB for HBN 150643 [ENVX/21820]				GB	4		E.GPC.SV.P	6158		6/12/2015	6/15/2015
2	451431	MB for HBN 150479 [ENVX/21803]	30 grams	.5 mL		MB	4		E.GPC.SV.P	6158		6/12/2015	6/15/2015
3	1515725001	F9K00	30.08 grams	.5 mL		SAMPLE	4	1515725001-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
4	1515725002	F9M82	30.41 grams	.5 mL		SAMPLE	4	1515725002-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
5	1515725003	F9M83	30.04 grams	.5 mL		SAMPLE	4	1515725003-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
6	1515725004	F9M84	30.23 grams	.5 mL		SAMPLE	4	1515725004-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
7	1515725005	F9M85	30.47 grams	.5 mL		SAMPLE	4	1515725005-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
8	1515725006	F9M86	30.21 grams	.5 mL		SAMPLE	4	1515725006-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
9	1515725007	F9M87	30.08 grams	.5 mL		SAMPLE	4	1515725007-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
10	1515725008	F9M88	30.16 grams	.5 mL		SAMPLE	4	1515725008-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
11	1515725009	F9M89	30.26 grams	.5 mL		SAMPLE	4	1515725009-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
12	1515725010	F9M90	30.43 grams	.5 mL		SAMPLE	4	1515725010-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
13	1515725011	F9M91	30.4 grams	.5 mL		SAMPLE	4	1515725011-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
14	1515725014	F9M92	30.16 grams	.5 mL		SAMPLE	4	1515725014-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
15	1515725015	F9M93	30 grams	.5 mL		SAMPLE	4	1515725015-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
16	1515725016	F9M94	30.05 grams	.5 mL		SAMPLE	4	1515725016-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
17	1515725017	F9M95	30.26 grams	.5 mL		SAMPLE	4	1515725017-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
18	1515725018	F9M96	30.12 grams	.5 mL		SAMPLE	4	1515725018-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
19	1515725019	F9M97	30.01 grams	.5 mL		SAMPLE	4	1515725019-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
20	1515725020	F9M98	30.4 grams	.5 mL		SAMPLE	4	1515725020-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015
21	1515725021	F9M99	30.03 grams	.5 mL		SAMPLE	4	1515725021-C	E.GPC.SV.P	5936		6/12/2015	6/15/2015

ALS Laboratory Group GPC Injection Logbook

Method:	SOM01.2	**Analytical Method**	SVOA	**Work Order ID:**	1515725	**Horizon Batch ID:**	150643
Account:	08201	**Instrument ID:**	GPC07	**Column ID:**	8171860-3 545929-11	**Flow Rate:**	5mL/min.
Load Date:	6/15/15	**Load Time:**	16:56	**Pressure (PSI)**	150	**PST/ARO Weekly ID:**	

Position	ALS Sample ID	Client Sample ID	Sample Notes/Comments
1	451917	GPC07 Blank	
2	1515725001	F9K00	
3	1515725002	F9K82	
4	1515725003	F9K83	
5	1515725004	F9K84	
6	1515725005	F9K85	
7	1515725006	F9K86	
8	1515725007	F9K87	
9	1515725008	F9K88	
10	1515725009	F9K89	
11	1515725010	F9K90	
12	1515725011	F9K91	
13	1515725014	F9K92	
14	1515725015	F9K93	
15	1515725016	F9K94	
16	1515725017	F9K95	
17	1515725018	F9K96	
18	1515725019	F9K97	
19	1515725020	F9K98	
20	1515725021	F9K99	
21	Rinse		Column Wash
22	451431	MB for HBN 150479	
23	Rinse		Column Wash

$MeCl_2$ Lot:	**97623**	**General Comments:**
Dump Time (min.):	**15.9**	if noted above - 1:10 dilutions made to protect GPC column
Collect Time (min.):	**29.3**	Analyst - Lyle Edwards
Wash Time(min.):	**10**	
GPC Standard ID:	**195WS38822**	

Batch Worklist

Batch: EGC/ 5825 **Created:** 6/23/2015 16:29 **Instrument:** **HBN:** 151110

Rule: SOM Pesticides, Soil **Analyst:** S. Sagers **Status:** WP

Workorder: 1515725 **SDG:** F9K00 **Case:** 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	451343	MB for HBN 150431 [ENVX/21798]	30 grams	5 mL		MB	4		SOMPESTS.4	6195	7/27/2015	6/25/2015	
2	451344	LCS-P for HBN 150431 [ENVX/217	30 grams	5 mL		LCS-P	4		SOMPESTS.4	6195	7/27/2015	6/25/2015	
3	1515725001	F9K00	30.35 grams	5 mL		SAMPLE	4	1515725001-A	S12PESTS.4	5936	7/27/2015	6/25/2015	
4	1515725002	F9M82	30.23 grams	5 mL		SAMPLE	4	1515725002-A	S12PESTS.4	5936	7/27/2015	6/25/2015	
5	1515725003	F9M83	30.49 grams	5 mL		SAMPLE	4	1515725003-A	S12PESTS.4	5936	7/27/2015	6/25/2015	
6	1515725004	F9M84	30.25 grams	5 mL		SAMPLE	4	1515725004-A	S12PESTS.4	5936	7/27/2015	6/25/2015	
7	1515725005	F9M85	30.05 grams	5 mL		SAMPLE	4	1515725005-A	S12PESTS.4	5936	7/27/2015	6/25/2015	
8	1515725006	F9M86	30.42 grams	5 mL		SAMPLE	4	1515725006-A	S12PESTS.4	5936	7/27/2015	6/25/2015	
9	1515725007	F9M87	30.34 grams	5 mL		SAMPLE	4	1515725007-A	S12PESTS.4	5936	7/27/2015	6/25/2015	
10	1515725008	F9M88	30.22 grams	5 mL		SAMPLE	4	1515725008-A	S12PESTS.4	5936	7/27/2015	6/25/2015	
11	1515725009	F9M89	30.3 grams	5 mL		SAMPLE	4	1515725009-A	S12PESTS.4	5936	7/27/2015	6/25/2015	
12	1515725010	F9M90	30.23 grams	5 mL		SAMPLE	4	1515725010-A	S12PESTS.4	5936	7/27/2015	6/25/2015	
13	1515725011	F9M91	30.06 grams	5 mL		SAMPLE	4	1515725011-A	S12PESTS.4	5936	7/27/2015	6/25/2015	
14	1515725012	F9M91MS	30.3 grams	5 mL		MS	4	1515725012-A	S12PESTS.4	5936	7/27/2015	6/25/2015	
15	1515725013	F9M91MSD	30.47 grams	5 mL		MSD	4	1515725013-A	S12PESTS.4	5936	7/27/2015	6/25/2015	
16	1515725014	F9M92	30.01 grams	5 mL		SAMPLE	4	1515725014-A	S12PESTS.4	5936	7/27/2015	6/25/2015	
17	1515725015	F9M93	30.43 grams	5 mL		SAMPLE	4	1515725015-A	S12PESTS.4	5936	7/27/2015	6/25/2015	
18	1515725016	F9M94	30.05 grams	5 mL		SAMPLE	4	1515725016-A	S12PESTS.4	5936	7/27/2015	6/25/2015	
19	1515725017	F9M95	30.18 grams	5 mL		SAMPLE	4	1515725017-A	S12PESTS.4	5936	7/27/2015	6/25/2015	
20	1515725018	F9M96	30.18 grams	5 mL		SAMPLE	4	1515725018-A	S12PESTS.4	5936	7/27/2015	6/25/2015	
21	1515725019	F9M97	30.4 grams	5 mL		SAMPLE	4	1515725019-A	S12PESTS.4	5936	7/27/2015	6/25/2015	
22	1515725020	F9M98	30.03 grams	5 mL		SAMPLE	4	1515725020-A	S12PESTS.4	5936	7/27/2015	6/25/2015	
23	1515725021	F9M99	30.35 grams	5 mL		SAMPLE	4	1515725021-A	S12PESTS.4	5936	7/27/2015	6/25/2015	

GC/ECD PESTICIDES ANALYST WRITE-UP

Batch: EGC/ 5825 Created: 6/23/2015 16:29 Instrument: HBN: 151110

Rule: SOM Pesticides, Soil Analyst: S. Sagers Status: WP

Workorder: 1515725 SDG: F9K00 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date
1	451343	MB for HBN 150431 [ENVX/21798]	30 grams	5 mL		MB	4		SOMPESTS.4	6195	7/27/2015	6/25/2015
2	451344	LCS-P for HBN 150431 [ENVX/217	30 grams	5 mL		LCS-P	4		SOMPESTS.4	6195	7/27/2015	6/25/2015
3	1515725001	F9K00	30.35 grams	5 mL		SAMPLE	4	1515725001-A	S12PESTS.4	5936	7/27/2015	6/25/2015
4	1515725002	F9M82	30.23 grams	5 mL		SAMPLE	4	1515725002-A	S12PESTS.4	5936	7/27/2015	6/25/2015
5	1515725003	F9M83	30.49 grams	5 mL		SAMPLE	4	1515725003-A	S12PESTS.4	5936	7/27/2015	6/25/2015
6	1515725004	F9M84	30.25 grams	5 mL		SAMPLE	4	1515725004-A	S12PESTS.4	5936	7/27/2015	6/25/2015
7	1515725005	F9M85	30.05 grams	5 mL		SAMPLE	4	1515725005-A	S12PESTS.4	5936	7/27/2015	6/25/2015
8	1515725006	F9M86	30.42 grams	5 mL		SAMPLE	4	1515725006-A	S12PESTS.4	5936	7/27/2015	6/25/2015
9	1515725007	F9M87	30.34 grams	5 mL		SAMPLE	4	1515725007-A	S12PESTS.4	5936	7/27/2015	6/25/2015
10	1515725008	F9M88	30.22 grams	5 mL		SAMPLE	4	1515725008-A	S12PESTS.4	5936	7/27/2015	6/25/2015
11	1515725009	F9M89	30.3 grams	5 mL		SAMPLE	4	1515725009-A	S12PESTS.4	5936	7/27/2015	6/25/2015
12	1515725010	F9M90	30.23 grams	5 mL		SAMPLE	4	1515725010-A	S12PESTS.4	5936	7/27/2015	6/25/2015
13	1515725011	F9M91	30.06 grams	5 mL		SAMPLE	4	1515725011-A	S12PESTS.4	5936	7/27/2015	6/25/2015
14	1515725012	F9M91MS	30.3 grams	5 mL		MS	4	1515725012-A	S12PESTS.4	5936	7/27/2015	6/25/2015
15	1515725013	F9M91MSD	30.47 grams	5 mL		MSD	4	1515725013-A	S12PESTS.4	5936	7/27/2015	6/25/2015
16	1515725014	F9M92	30.01 grams	5 mL		SAMPLE	4	1515725014-A	S12PESTS.4	5936	7/27/2015	6/25/2015
17	1515725015	F9M93	30.43 grams	5 mL		SAMPLE	4	1515725015-A	S12PESTS.4	5936	7/27/2015	6/25/2015
18	1515725016	F9M94	30.05 grams	5 mL		SAMPLE	4	1515725016-A	S12PESTS.4	5936	7/27/2015	6/25/2015
19	1515725017	F9M95	30.18 grams	5 mL		SAMPLE	4	1515725017-A	S12PESTS.4	5936	7/27/2015	6/25/2015
20	1515725018	F9M96	30.18 grams	5 mL		SAMPLE	4	1515725018-A	S12PESTS.4	5936	7/27/2015	6/25/2015
21	1515725019	F9M97	30.4 grams	5 mL		SAMPLE	4	1515725019-A	S12PESTS.4	5936	7/27/2015	6/25/2015
22	1515725020	F9M98	30.03 grams	5 mL		SAMPLE	4	1515725020-A	S12PESTS.4	5936	7/27/2015	6/25/2015
23	1515725021	F9M99	30.35 grams	5 mL		SAMPLE	4	1515725021-A	S12PESTS.4	5936	7/27/2015	6/25/2015

Samples analyzed: 06/23/2015 ICAL(s) analyzed: 06/19/2015 (1) CCVs: 2, 7, 8

Instrument: GC21: HP5890 with RTXCLP (30m x 0.32mm ID x 0.50um film) and RTXCLP2 (30m x 0.32mm ID x 0.25um film) columns and EC detectors. Helium carrier gas.

Injection volulme: 2.0 uL. Injector temps: 170C. Detector temps: 320C.

GC Program: 105C for 0 min, 30C/min to 180C for 0 min, 12.5C/min to 270C for 0 min, 30C/min to 330C for 5.00 min. 16.70 min total.

Surrogates: All samples passed SOW surrogate recovery criteria.

LCS: All recoveries were within established limits.

MS and MSD: One recovery and one RPD were outside established limits.

Dilutions: No dilutions were required.

Miscellaneous: 1) None.

GC/ECD PEST INJECTION LOG

File Name	Date Inject	Time Inject	Sample Name	Other ID	Instr ID	Column ID	
21150619A_002.rst	06/19/2015	18:35:42	PRIME		GC21A	RTXCLP 0.32mm x 30m	
21150619A_003.rst	06/19/2015	18:56:36	PRIME		GC21A	RTXCLP 0.32mm x 30m	
21150619A_004.rst	06/19/2015	19:17:32	RESC11	228313	GC21A	RTXCLP 0.32mm x 30m	
21150619A_005.rst	06/19/2015	19:38:40	PEM11	28317	GC21A	RTXCLP 0.32mm x 30m	
21150619A_006.rst	06/19/2015	19:59:48	TOXAPH111	28306	GC21A	RTXCLP 0.32mm x 30m	
21150619A_007.rst	06/19/2015	20:20:40	TOXAPH211	28307	GC21A	RTXCLP 0.32mm x 30m	
21150619A_008.rst	06/19/2015	20:41:48	TOXAPH311	28308	GC21A	RTXCLP 0.32mm x 30m	
21150619A_009.rst	06/19/2015	21:02:40	TOXAPH411	28309	GC21A	RTXCLP 0.32mm x 30m	
21150619A_010.rst	06/19/2015	21:23:33	TOXAPH511	28310	GC21A	RTXCLP 0.32mm x 30m	
21150619A_011.rst	06/19/2015	21:44:25	INDC111	28311	GC21A	RTXCLP 0.32mm x 30m	
21150619A_012.rst	06/19/2015	22:05:13	INDC211	28312	GC21A	RTXCLP 0.32mm x 30m	
21150619A_013.rst	06/19/2015	22:26:17	INDC311	28313	GC21A	RTXCLP 0.32mm x 30m	
21150619A_014.rst	06/19/2015	22:47:05	INDC411	28314	GC21A	RTXCLP 0.32mm x 30m	
21150619A_015.rst	06/19/2015	23:07:51	INDC511	28315	GC21A	RTXCLP 0.32mm x 30m	
21150619A_016.rst	06/19/2015	23:28:41	PIBLK21	28316	GC21A	RTXCLP 0.32mm x 30m	
21150619A_017.rst	06/19/2015	23:49:29	PEM21	28317	GC21A	RTXCLP 0.32mm x 30m	
21150619A_018.rst	06/20/2015	00:10:17	GPC6PST0617		GC21A	RTXCLP 0.32mm x 30m	
21150619A_019.rst	06/20/2015	00:31:04	GPC6BLK0617		GC21A	RTXCLP 0.32mm x 30m	
21150619A_020.rst	06/20/2015	00:52:04	450508	PBLKS1	GC21A	RTXCLP 0.32mm x 30m	
21150619A_021.rst	06/20/2015	01:12:48	450509	PLCSS1	GC21A	RTXCLP 0.32mm x 30m	
21150619A_022.rst	06/20/2015	01:33:34	1515552001	F9M36	GC21A	RTXCLP 0.32mm x 30m	
21150619A_023.rst	06/20/2015	01:54:20	1515552002	F9M36MS	GC21A	RTXCLP 0.32mm x 30m	
21150619A_024.rst	06/20/2015	02:15:08	1515552003	F9M36MSD	GC21A	RTXCLP 0.32mm x 30m	
21150619A_025.rst	06/20/2015	02:35:54	1515552004	F9M42	GC21A	RTXCLP 0.32mm x 30m	
21150619A_026.rst	06/20/2015	02:56:44	1515552005	F9M43	GC21A	RTXCLP 0.32mm x 30m	
21150619A_027.rst	06/20/2015	03:17:34	1515552006	F9M44	GC21A	RTXCLP 0.32mm x 30m	
21150619A_028.rst	06/20/2015	03:38:20	1515552007	F9M45	GC21A	RTXCLP 0.32mm x 30m	
21150619A_029.rst	06/20/2015	03:59:19	RINSE		GC21A	RTXCLP 0.32mm x 30m	
21150619A_030.rst	06/20/2015	04:20:03	PIBLK31	28316	GC21A	RTXCLP 0.32mm x 30m	
21150619A_031.rst	06/20/2015	04:40:47	INDC331	28313	GC21A	RTXCLP 0.32mm x 30m	
21150619A_032.rst	06/20/2015	05:01:35	RINSE		GC21A	RTXCLP 0.32mm x 30m	
21150619A_033.rst	06/20/2015	05:22:21	RINSE		GC21A	RTXCLP 0.32mm x 30m	
21150619A_034.rst	06/20/2015	13:32:26	RINSE		GC21A	RTXCLP 0.32mm x 30m	
21150619A_035.rst	06/20/2015	13:52:54	RINSE		GC21A	RTXCLP 0.32mm x 30m	
21150619A_036.rst	06/20/2015	14:13:41	PIBLK41	28316	GC21A	RTXCLP 0.32mm x 30m	
21150619A_037.rst	06/20/2015	14:34:30	PEM41	28317	GC21A	RTXCLP 0.32mm x 30m	
21150619A_038.rst	06/20/2015	14:55:22	GPC6PST0616		GC21A	RTXCLP 0.32mm x 30m	
21150619A_039.rst	06/20/2015	15:16:28	GPC6BLK0616		GC21A	RTXCLP 0.32mm x 30m	
21150619A_040.rst	06/20/2015	15:37:20	450688	PBLKS1	GC21A	RTXCLP 0.32mm x 30m	
21150619A_041.rst	06/20/2015	15:58:10	450689	PLCSS1	GC21A	RTXCLP 0.32mm x 30m	
21150619A_042.rst	06/20/2015	16:19:06	1515380001	F9M15	GC21A	RTXCLP 0.32mm x 30m	
21150619A_043.rst	06/20/2015	16:40:01	1515380002	F9M15MS	GC21A	RTXCLP 0.32mm x 30m	
21150619A_044.rst	06/20/2015	17:00:53	1515380003	F9M15MSD	GC21A	RTXCLP 0.32mm x 30m	
21150619A_045.rst	06/20/2015	17:21:59	1515380004	F9M20	GC21A	RTXCLP 0.32mm x 30m	
21150619A_046.rst	06/20/2015	17:42:55	1515618001	F9M69	GC21A	RTXCLP 0.32mm x 30m	
21150619A_047.rst	06/20/2015	18:04:01	1515618002	F9M70	GC21A	RTXCLP 0.32mm x 30m	
21150619A_048.rst	06/20/2015	18:24:53	1515618003	F9M71	GC21A	RTXCLP 0.32mm x 30m	
21150619A_049.rst	06/20/2015	18:45:43	1515618004X	F9M72X	GC21A	RTXCLP 0.32mm x 30m	Low surrogates. Re-analyzed Aro extract.
21150619A_050.rst	06/20/2015	19:06:36	1515618005	F9M73	GC21A	RTXCLP 0.32mm x 30m	
21150619A_051.rst	06/20/2015	19:27:28	1515618006	F9M74	GC21A	RTXCLP 0.32mm x 30m	
21150619A_052.rst	06/20/2015	19:48:22	1515618007	F9M75	GC21A	RTXCLP 0.32mm x 30m	
21150619A_053.rst	06/20/2015	20:09:12	1515618008	F9M76	GC21A	RTXCLP 0.32mm x 30m	
21150619A_054.rst	06/20/2015	20:30:18	1515618009	F9M77	GC21A	RTXCLP 0.32mm x 30m	
21150619A_055.rst	06/20/2015	20:51:20	1515618010	F9M78	GC21A	RTXCLP 0.32mm x 30m	
21150619A_056.rst	06/20/2015	21:12:10	1515618011	F9M79	GC21A	RTXCLP 0.32mm x 30m	
21150619A_057.rst	06/20/2015	21:33:14	RINSE		GC21A	RTXCLP 0.32mm x 30m	
21150619A_058.rst	06/20/2015	21:54:02	PIBLK51	28316	GC21A	RTXCLP 0.32mm x 30m	
21150619A_059.rst	06/20/2015	22:14:49	INDC351	28313	GC21A	RTXCLP 0.32mm x 30m	
21150619A_060.rst	06/20/2015	22:35:38	RINSE		GC21A	RTXCLP 0.32mm x 30m	
21150619A_061.rst	06/20/2015	22:56:26	RINSE		GC21A	RTXCLP 0.32mm x 30m	
21150619A_062.rst	06/21/2015	08:24:37	1515618004	F9M72	GC21A	RTXCLP 0.32mm x 30m	OK
21150619A_063.rst	06/21/2015	08:45:21	PIBLK61	28316	GC21A	RTXCLP 0.32mm x 30m	
21150619A_064.rst	06/21/2015	09:06:19	PEM61	28317	GC21A	RTXCLP 0.32mm x 30m	
21150619A_065.rst	06/21/2015	09:27:07	RINSE		GC21A	RTXCLP 0.32mm x 30m	

GC/ECD PEST INJECTION LOG

File Name	Date Inject	Time Inject	Sample Name	Other ID	Instr ID	Column ID
21150619A_066.rst	06/23/2015	13:37:06	RINSE		GC21A	RTXCLP 0.32mm x 30m
21150619A_067.rst	06/23/2015	13:54:58	RINSE		GC21A	RTXCLP 0.32mm x 30m
21150619A_068.rst	06/23/2015	14:14:24	PIBLK71	28316	GC21A	RTXCLP 0.32mm x 30m
21150619A_069.rst	06/23/2015	14:34:34	PEM71	28317	GC21A	RTXCLP 0.32mm x 30m
21150619A_070.rst	06/23/2015	14:55:28	451343	PBLKS1	GC21A	RTXCLP 0.32mm x 30m
21150619A_071.rst	06/23/2015	15:16:24	451344	PLCSS1	GC21A	RTXCLP 0.32mm x 30m
21150619A_072.rst	06/23/2015	15:37:28	1515725001	F9K00	GC21A	RTXCLP 0.32mm x 30m
21150619A_073.rst	06/23/2015	15:58:26	1515725002	F9M82	GC21A	RTXCLP 0.32mm x 30m
21150619A_074.rst	06/23/2015	16:19:24	1515725003	F9M83	GC21A	RTXCLP 0.32mm x 30m
21150619A_075.rst	06/23/2015	16:40:20	1515725004	F9M84	GC21A	RTXCLP 0.32mm x 30m
21150619A_076.rst	06/23/2015	17:01:16	1515725005	F9M85	GC21A	RTXCLP 0.32mm x 30m
21150619A_077.rst	06/23/2015	17:22:12	1515725006	F9M86	GC21A	RTXCLP 0.32mm x 30m
21150619A_078.rst	06/23/2015	17:43:13	1515725007	F9M87	GC21A	RTXCLP 0.32mm x 30m
21150619A_079.rst	06/23/2015	18:04:09	1515725008	F9M88	GC21A	RTXCLP 0.32mm x 30m
21150619A_080.rst	06/23/2015	18:25:21	1515725009	F9M89	GC21A	RTXCLP 0.32mm x 30m
21150619A_081.rst	06/23/2015	18:46:33	1515725010	F9M90	GC21A	RTXCLP 0.32mm x 30m
21150619A_082.rst	06/23/2015	19:07:43	1515725011	F9M91	GC21A	RTXCLP 0.32mm x 30m
21150619A_083.rst	06/23/2015	19:28:43	1515725012	F9M91MS	GC21A	RTXCLP 0.32mm x 30m
21150619A_084.rst	06/23/2015	19:49:39	1515725013	F9M91MSD	GC21A	RTXCLP 0.32mm x 30m
21150619A_085.rst	06/23/2015	20:10:38	1515725014	F9M92	GC21A	RTXCLP 0.32mm x 30m
21150619A_086.rst	06/23/2015	20:31:34	1515725015	F9M93	GC21A	RTXCLP 0.32mm x 30m
21150619A_087.rst	06/23/2015	20:52:28	1515725016	F9M94	GC21A	RTXCLP 0.32mm x 30m
21150619A_088.rst	06/23/2015	21:13:34	1515725017	F9M95	GC21A	RTXCLP 0.32mm x 30m
21150619A_089.rst	06/23/2015	21:34:28	1515725018	F9M96	GC21A	RTXCLP 0.32mm x 30m
21150619A_090.rst	06/23/2015	21:55:22	1515725019	F9M97	GC21A	RTXCLP 0.32mm x 30m
21150619A_091.rst	06/23/2015	22:16:28	1515725020	F9M98	GC21A	RTXCLP 0.32mm x 30m
21150619A_092.rst	06/23/2015	22:37:18	1515725021	F9M99	GC21A	RTXCLP 0.32mm x 30m
21150619A_093.rst	06/23/2015	22:58:22	RINSE		GC21A	RTXCLP 0.32mm x 30m
21150619A_094.rst	06/23/2015	23:19:10	PIBLK81	28316	GC21A	RTXCLP 0.32mm x 30m
21150619A_095.rst	06/23/2015	23:40:01	INDC381	28313	GC21A	RTXCLP 0.32mm x 30m
21150619A_096.rst	06/24/2015	00:00:47	RINSE		GC21A	RTXCLP 0.32mm x 30m
21150619A_097.rst	06/24/2015	00:21:35	RINSE		GC21A	RTXCLP 0.32mm x 30m

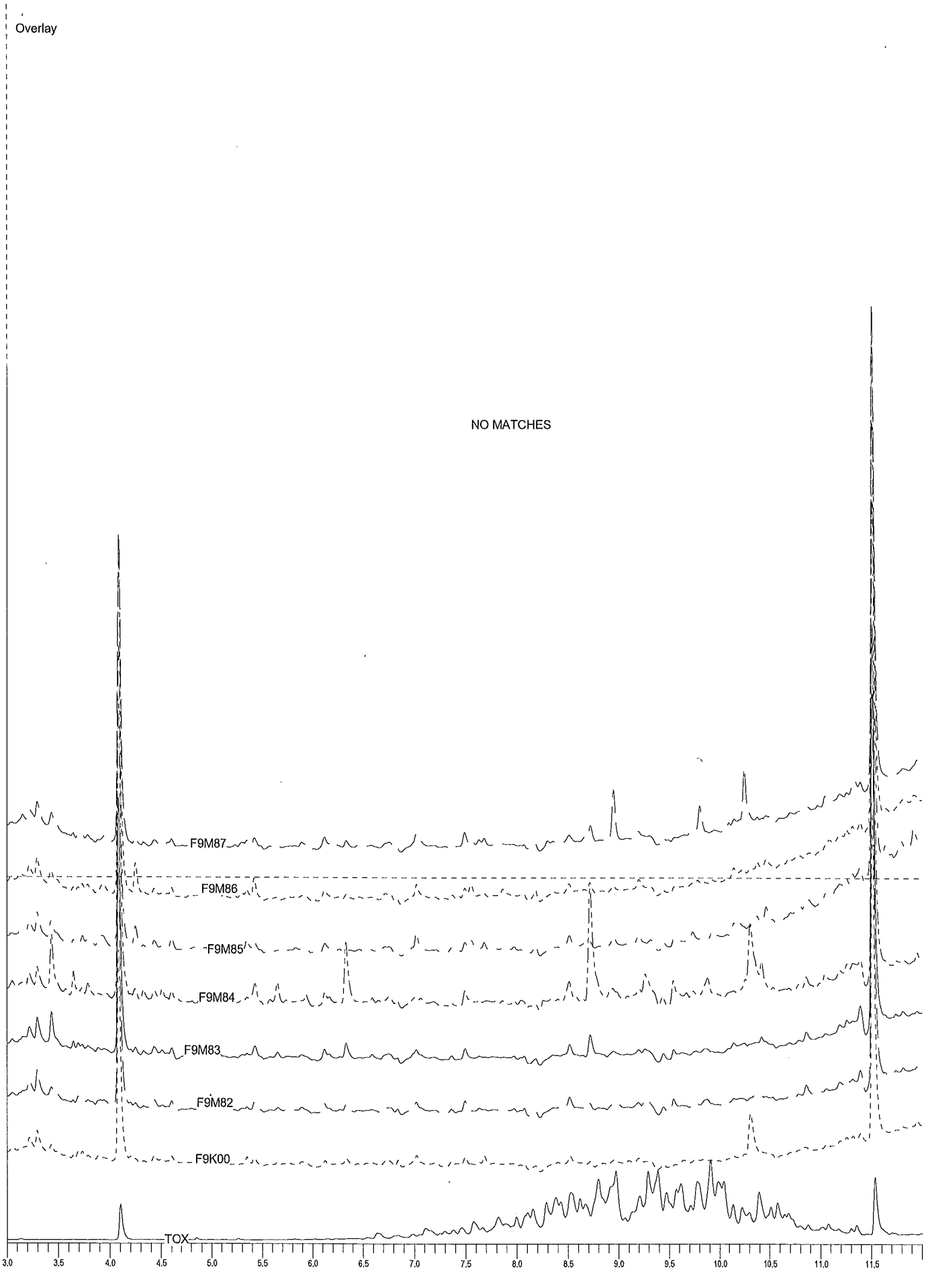
GC/ECD PEST INJECTION LOG

File Name	Date Inject	Time Inject	Sample Name	Other ID	Instr ID	Column ID	
21150619B_001.rst	06/19/2015	18:35:42	PRIME		GC21B	RTXCLP2 0.32mm x 30m	
21150619B_002.rst	06/19/2015	18:56:36	PRIME		GC21B	RTXCLP2 0.32mm x 30m	
21150619B_003.rst	06/19/2015	19:17:32	PRIME		GC21B	RTXCLP2 0.32mm x 30m	
21150619B_004.rst	06/19/2015	19:38:40	RESC12	228313	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_005.rst	06/19/2015	19:59:48	PEM12	28317	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_006.rst	06/19/2015	20:20:40	TOXAPH112	28306	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_007.rst	06/19/2015	20:41:48	TOXAPH212	28307	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_008.rst	06/19/2015	21:02:40	TOXAPH312	28308	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_009.rst	06/19/2015	21:23:33	TOXAPH412	28309	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_010.rst	06/19/2015	21:44:25	TOXAPH512	28310	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_011.rst	06/19/2015	22:05:13	INDC112	28311	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_012.rst	06/19/2015	22:26:17	INDC212	28312	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_013.rst	06/19/2015	22:47:05	INDC312	28313	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_014.rst	06/19/2015	23:07:51	INDC412	28314	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_015.rst	06/19/2015	23:28:41	INDC512	28315	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_016.rst	06/19/2015	23:49:29	PIBLK22	28316	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_017.rst	06/20/2015	00:10:17	PEM22	28317	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_018.rst	06/20/2015	00:31:04	GPC6PST0617		GC21B	RTXCLP2 0.32mm x 30m	
21150619B_019.rst	06/20/2015	00:52:04	GPC6BLK0617		GC21B	RTXCLP2 0.32mm x 30m	
21150619B_020.rst	06/20/2015	01:12:48	450508	PBLKS1	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_021.rst	06/20/2015	01:33:34	450509	PLCSS1	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_022.rst	06/20/2015	01:54:20	1515552001	F9M36	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_023.rst	06/20/2015	02:15:08	1515552002	F9M36MS	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_024.rst	06/20/2015	02:35:54	1515552003	F9M36MSD	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_025.rst	06/20/2015	02:56:44	1515552004	F9M42	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_026.rst	06/20/2015	03:17:34	1515552005	F9M43	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_027.rst	06/20/2015	03:38:20	1515552006	F9M44	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_028.rst	06/20/2015	03:59:19	1515552007	F9M45	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_029.rst	06/20/2015	04:20:03	RINSE		GC21B	RTXCLP2 0.32mm x 30m	
21150619B_030.rst	06/20/2015	04:40:47	PIBLK32	28316	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_031.rst	06/20/2015	05:01:35	INDC332	28313	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_032.rst	06/20/2015	05:22:21	RINSE		GC21B	RTXCLP2 0.32mm x 30m	
21150619B_033.rst	06/20/2015	13:32:26	RINSE		GC21B	RTXCLP2 0.32mm x 30m	
21150619B_034.rst	06/20/2015	13:52:54	RINSE		GC21B	RTXCLP2 0.32mm x 30m	
21150619B_035.rst	06/20/2015	14:13:41	RINSE		GC21B	RTXCLP2 0.32mm x 30m	
21150619B_036.rst	06/20/2015	14:34:30	PIBLK42	28316	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_037.rst	06/20/2015	14:55:22	PEM42	28317	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_038.rst	06/20/2015	15:16:28	GPC6PST0616		GC21B	RTXCLP2 0.32mm x 30m	
21150619B_039.rst	06/20/2015	15:37:20	GPC6BLK0616		GC21B	RTXCLP2 0.32mm x 30m	
21150619B_040.rst	06/20/2015	15:58:10	450688	PBLKS1	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_041.rst	06/20/2015	16:19:06	450689	PLCSS1	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_042.rst	06/20/2015	16:40:01	1515380001	F9M15	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_043.rst	06/20/2015	17:00:53	1515380002	F9M15MS	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_044.rst	06/20/2015	17:21:59	1515380003	F9M15MSD	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_045.rst	06/20/2015	17:42:55	1515380004	F9M20	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_046.rst	06/20/2015	18:04:01	1515618001	F9M69	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_047.rst	06/20/2015	18:24:53	1515618002	F9M70	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_048.rst	06/20/2015	18:45:43	1515618003	F9M71	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_049.rst	06/20/2015	19:06:36	1515618004X	F9M72X	GC21B	RTXCLP2 0.32mm x 30m	Low surrogates. Re-analyze Aro extract.
21150619B_050.rst	06/20/2015	19:27:28	1515618005	F9M73	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_051.rst	06/20/2015	19:48:22	1515618006	F9M74	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_052.rst	06/20/2015	20:09:12	1515618007	F9M75	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_053.rst	06/20/2015	20:30:18	1515618008	F9M76	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_054.rst	06/20/2015	20:51:20	1515618009	F9M77	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_055.rst	06/20/2015	21:12:10	1515618010	F9M78	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_056.rst	06/20/2015	21:33:14	1515618011	F9M79	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_057.rst	06/20/2015	21:54:02	RINSE		GC21B	RTXCLP2 0.32mm x 30m	
21150619B_058.rst	06/20/2015	22:14:49	PIBLK52	28316	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_059.rst	06/20/2015	22:35:38	INDC352	28313	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_060.rst	06/20/2015	22:56:26	RINSE		GC21B	RTXCLP2 0.32mm x 30m	
21150619B_061.rst	06/21/2015	08:24:37	RINSE		GC21B	RTXCLP2 0.32mm x 30m	
21150619B_062.rst	06/21/2015	08:45:21	1515618004	F9M72	GC21B	RTXCLP2 0.32mm x 30m	OK
21150619B_063.rst	06/21/2015	09:06:19	PIBLK62	28316	GC21B	RTXCLP2 0.32mm x 30m	
21150619B_064.rst	06/21/2015	09:27:07	PEM62	28317	GC21B	RTXCLP2 0.32mm x 30m	

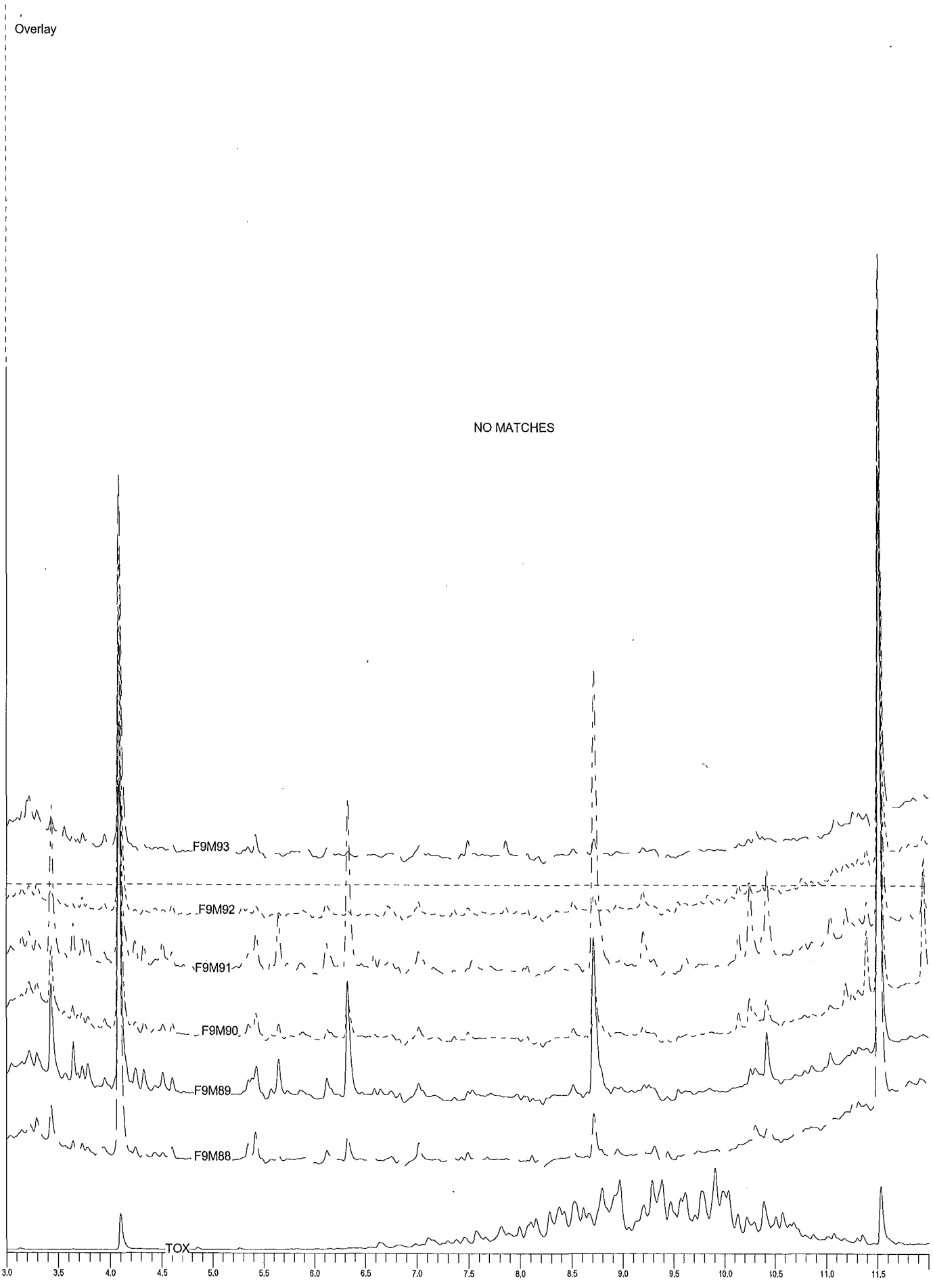
GC/ECD PEST INJECTION LOG

File Name	Date Inject	Time Inject	Sample Name	Other ID	Instr ID	Column ID
21150619B_065.rst	06/23/2015	13:37:06	RINSE		GC21B	RTXCLP2 0.32mm x 30m
21150619B_066.rst	06/23/2015	13:54:58	RINSE		GC21B	RTXCLP2 0.32mm x 30m
21150619B_067.rst	06/23/2015	14:14:24	RINSE		GC21B	RTXCLP2 0.32mm x 30m
21150619B_068.rst	06/23/2015	14:34:34	PIBLK72	28316	GC21B	RTXCLP2 0.32mm x 30m
21150619B_069.rst	06/23/2015	14:55:28	PEM72	28317	GC21B	RTXCLP2 0.32mm x 30m
21150619B_070.rst	06/23/2015	15:16:24	451343	PBLKS1	GC21B	RTXCLP2 0.32mm x 30m
21150619B_071.rst	06/23/2015	15:37:28	451344	PLCSS1	GC21B	RTXCLP2 0.32mm x 30m
21150619B_072.rst	06/23/2015	15:58:26	1515725001	F9K00	GC21B	RTXCLP2 0.32mm x 30m
21150619B_073.rst	06/23/2015	16:19:24	1515725002	F9M82	GC21B	RTXCLP2 0.32mm x 30m
21150619B_074.rst	06/23/2015	16:40:20	1515725003	F9M83	GC21B	RTXCLP2 0.32mm x 30m
21150619B_075.rst	06/23/2015	17:01:16	1515725004	F9M84	GC21B	RTXCLP2 0.32mm x 30m
21150619B_076.rst	06/23/2015	17:22:12	1515725005	F9M85	GC21B	RTXCLP2 0.32mm x 30m
21150619B_077.rst	06/23/2015	17:43:13	1515725006	F9M86	GC21B	RTXCLP2 0.32mm x 30m
21150619B_078.rst	06/23/2015	18:04:09	1515725007	F9M87	GC21B	RTXCLP2 0.32mm x 30m
21150619B_079.rst	06/23/2015	18:25:21	1515725008	F9M88	GC21B	RTXCLP2 0.32mm x 30m
21150619B_080.rst	06/23/2015	18:46:33	1515725009	F9M89	GC21B	RTXCLP2 0.32mm x 30m
21150619B_081.rst	06/23/2015	19:07:43	1515725010	F9M90	GC21B	RTXCLP2 0.32mm x 30m
21150619B_082.rst	06/23/2015	19:28:43	1515725011	F9M91	GC21B	RTXCLP2 0.32mm x 30m
21150619B_083.rst	06/23/2015	19:49:39	1515725012	F9M91MS	GC21B	RTXCLP2 0.32mm x 30m
21150619B_084.rst	06/23/2015	20:10:38	1515725013	F9M91MSD	GC21B	RTXCLP2 0.32mm x 30m
21150619B_085.rst	06/23/2015	20:31:34	1515725014	F9M92	GC21B	RTXCLP2 0.32mm x 30m
21150619B_086.rst	06/23/2015	20:52:28	1515725015	F9M93	GC21B	RTXCLP2 0.32mm x 30m
21150619B_087.rst	06/23/2015	21:13:34	1515725016	F9M94	GC21B	RTXCLP2 0.32mm x 30m
21150619B_088.rst	06/23/2015	21:34:28	1515725017	F9M95	GC21B	RTXCLP2 0.32mm x 30m
21150619B_089.rst	06/23/2015	21:55:22	1515725018	F9M96	GC21B	RTXCLP2 0.32mm x 30m
21150619B_090.rst	06/23/2015	22:16:28	1515725019	F9M97	GC21B	RTXCLP2 0.32mm x 30m
21150619B_091.rst	06/23/2015	22:37:18	1515725020	F9M98	GC21B	RTXCLP2 0.32mm x 30m
21150619B_092.rst	06/23/2015	22:58:22	1515725021	F9M99	GC21B	RTXCLP2 0.32mm x 30m
21150619B_093.rst	06/23/2015	23:19:10	RINSE		GC21B	RTXCLP2 0.32mm x 30m
21150619B_094.rst	06/23/2015	23:40:01	PIBLK82	28316	GC21B	RTXCLP2 0.32mm x 30m
21150619B_095.rst	06/24/2015	00:00:47	INDC382	28313	GC21B	RTXCLP2 0.32mm x 30m
21150619B_096.rst	06/24/2015	00:21:35	RINSE		GC21B	RTXCLP2 0.32mm x 30m

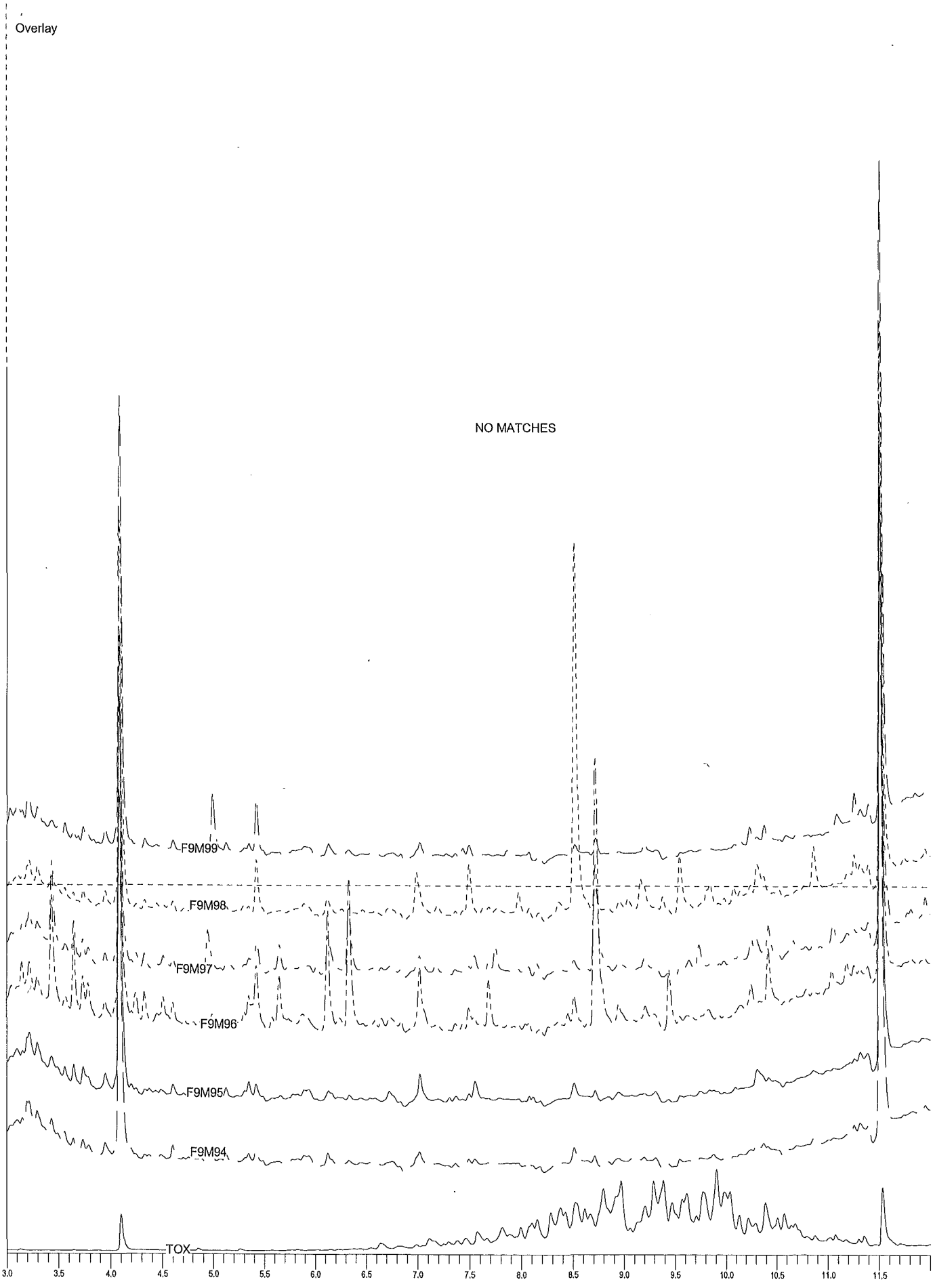
Plot Title		Start Time	End Time	Scale	Offset
21150619A_077.raw		3.00	12.00	99.00	21.00
Sample Name :	1515725006				
Sample Number:	077				
Instrument File Name:	G:\GCE21\21150619\21_som_acq_pest				
21150619A_074.raw		3.00	12.00	99.00	21.00
Sample Name :	1515725003				
Sample Number:	074				
Instrument File Name:	G:\GCE21\21150619\21_som_acq_pest				
21150619A_008.raw		3.00	12.00	500.00	21.00
Sample Name :	TOXAPH311				
Sample Number:	008				
Instrument File Name:	G:\GCE21\21150619\21_som_acq_pest				
21150619A_076.raw		3.00	12.00	99.00	21.00
Sample Name :	1515725005				
Sample Number:	076				
Instrument File Name:	G:\GCE21\21150619\21_som_acq_pest				
21150619A_073.raw		3.00	12.00	99.00	21.00
Sample Name :	1515725002				
Sample Number:	073				
Instrument File Name:	G:\GCE21\21150619\21_som_acq_pest				
21150619A_078.raw		3.00	12.00	99.00	21.00
Sample Name :	1515725007				
Sample Number:	078				
Instrument File Name:	G:\GCE21\21150619\21_som_acq_pest				
21150619A_075.raw		3.00	12.00	99.00	21.00
Sample Name :	1515725004				
Sample Number:	075				
Instrument File Name:	G:\GCE21\21150619\21_som_acq_pest				
21150619A_072.raw		3.00	12.00	99.00	21.00
Sample Name :	1515725001				
Sample Number:	072				
Instrument File Name:	G:\GCE21\21150619\21_som_acq_pest				


Overlay
NO MATCHES
F9M87
F9M86
F9M85
F9M84
F9M83
F9M82
F9K00
TOX
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
9.0
9.5
10.0
10.5
11.0
11.5

Plot Title		Start Time	End Time	Scale	Offset
21150619A_079.raw		3.00	12.00	99.00	21.00
Sample Name :	1515725008				
Sample Number:	079				
Instrument File Name:	G:\GCE21\21150619\21_som_acq_pest				
21150619A_080.raw		3.00	12.00	99.00	21.00
Sample Name :	1515725009				
Sample Number:	080				
Instrument File Name:	G:\GCE21\21150619\21_som_acq_pest				
21150619A_085.raw		3.00	12.00	99.00	21.00
Sample Name :	1515725014				
Sample Number:	085				
Instrument File Name:	G:\GCE21\21150619\21_som_acq_pest				
21150619A_086.raw		3.00	12.00	99.00	21.00
Sample Name :	1515725015				
Sample Number:	086				
Instrument File Name:	G:\GCE21\21150619\21_som_acq_pest				
21150619A_082.raw		3.00	12.00	99.00	21.00
Sample Name :	1515725011				
Sample Number:	082				
Instrument File Name:	G:\GCE21\21150619\21_som_acq_pest				
21150619A_008.raw		3.00	12.00	500.00	21.00
Sample Name :	TOXAPH311				
Sample Number:	008				
Instrument File Name:	G:\GCE21\21150619\21_som_acq_pest				
21150619A_081.raw		3.00	12.00	99.00	21.00
Sample Name :	1515725010				
Sample Number:	081				
Instrument File Name:	G:\GCE21\21150619\21_som_acq_pest				


Overlay
NO MATCHES
F9M93
F9M92
F9M91
F9M90
F9M89
F9M88
TOX
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
9.0
9.5
10.0
10.5
11.5

Plot Title		Start Time	End Time	Scale	Offset
21150619A_087.raw		3.00	12.00	99.00	21.00
Sample Name :	1515725016				
Sample Number:	087				
Instrument File Name:	G:\GCE21\21150619\21_som_acq_pest				
21150619A_088.raw		3.00	12.00	99.00	21.00
Sample Name :	1515725017				
Sample Number:	088				
Instrument File Name:	G:\GCE21\21150619\21_som_acq_pest				
21150619A_091.raw		3.00	12.00	99.00	21.00
Sample Name :	1515725020				
Sample Number:	091				
Instrument File Name:	G:\GCE21\21150619\21_som_acq_pest				
21150619A_092.raw		3.00	12.00	99.00	21.00
Sample Name :	1515725021				
Sample Number:	092				
Instrument File Name:	G:\GCE21\21150619\21_som_acq_pest				
21150619A_090.raw		3.00	12.00	99.00	21.00
Sample Name :	1515725019				
Sample Number:	090				
Instrument File Name:	G:\GCE21\21150619\21_som_acq_pest				
21150619A_008.raw		3.00	12.00	500.00	21.00
Sample Name :	TOXAPH311				
Sample Number:	008				
Instrument File Name:	G:\GCE21\21150619\21_som_acq_pest				
21150619A_089.raw		3.00	12.00	99.00	21.00
Sample Name :	1515725018				
Sample Number:	089				
Instrument File Name:	G:\GCE21\21150619\21_som_acq_pest				


Overlay
NO MATCHES
F9M99
F9M98
F9M97
F9M96
F9M95
F9M94
TOX
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
9.0
9.5
10.0
10.5
11.0
11.5

Batch Worklist

Batch: ENVX/ 21798 Created: 6/12/2015 08:48 Instrument: HBN: 150431

Rule: Sonication Extrcn, Pest/Aclr Analyst: P. Tran Status: NA

Workorder: 1515725 SDG: F9K00 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	451343	MB for HBN 150431 [ENVX/21798]	30.00 g	5 mL		MB	4		SNCTNPA.4P	6195	6/22/2015	6/6/2015	
2	451344	LCS-P for HBN 150431 [ENVX/217	30.00 g			LCS-P	4		SNCTNPA.4P	6195	6/22/2015	6/6/2015	
3	451345	LCS-A for HBN 150431 [ENVX/217	30.00 g			LCS-A	4		SNCTNPA.4P	6195	6/22/2015	6/6/2015	
4	1515725001	F9K00	30.35 g			SAMPLE	4	1515725001-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
5	1515725002	F9M82	30.23 g			SAMPLE	4	1515725002-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
6	1515725003	F9M83	30.49 g			SAMPLE	4	1515725003-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
7	1515725004	F9M84	30.25 g			SAMPLE	4	1515725004-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
8	1515725005	F9M85	30.05 g			SAMPLE	4	1515725005-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
9	1515725006	F9M86	30.42 g			SAMPLE	4	1515725006-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
10	1515725007	F9M87	30.34 g			SAMPLE	4	1515725007-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
11	1515725008	F9M88	30.22 g			SAMPLE	4	1515725008-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
12	1515725009	F9M89	30.30 g			SAMPLE	4	1515725009-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
13	1515725010	F9M90	30.23 g			SAMPLE	4	1515725010-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
14	1515725011	F9M91	30.06 g			SAMPLE	4	1515725011-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
15	1515725012	F9M91MS	30.30 g			MS	4	1515725012-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
16	1515725013	F9M91MSD	30.47 g			MSD	4	1515725013-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
17	1515725014	F9M92	30.01 g			SAMPLE	4	1515725014-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
18	1515725015	F9M93	30.43 g			SAMPLE	4	1515725015-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
19	1515725016	F9M94	30.05 g			SAMPLE	4	1515725016-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
20	1515725017	F9M95	30.18 g			SAMPLE	4	1515725017-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
21	1515725018	F9M96	30.18 g			SAMPLE	4	1515725018-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
22	1515725019	F9M97	30.40 g			SAMPLE	4	1515725019-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
23	1515725020	F9M98	36.03 g			SAMPLE	4	1515725020-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
24	1515725021	F9M99	30.35 g			SAMPLE	4	1515725021-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	

some PEST

Batch Worklist

Batch: ENVX/ 21814 Created: 6/16/2015 09:18 Instrument: GPC06 HBN: 150592

Rule: GPC Pest/Aro Analyst: L. Edwards Status: NA

Workorder: 1515725 SDG: F9K00 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	451806	GB for HBN 150592 [ENVX/21814]				GB	4		E.GPC.PA.P	6158		6/12/2015	6/14/2015
2	451343	MB for HBN 150431 [ENVX/21798]	30 grams	5 mL		MB	4		E.GPC.PA.P	6195		6/12/2015	6/14/2015
3	451344	LCS-P for HBN 150431 [ENVX/217	30 grams	5 mL		LCS-P	4		E.GPC.PA.P	6195		6/12/2015	6/14/2015
4	451345	LCS-A for HBN 150431 [ENVX/217	30 grams	5 mL		LCS-A	4		E.GPC.PA.P	6195		6/12/2015	6/14/2015
5	1515725001	F9K00	30.35 grams	5 mL		SAMPLE	4	1515725001-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
6	1515725002	F9M82	30.23 grams	5 mL		SAMPLE	4	1515725002-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
7	1515725003	F9M83	30.49 grams	5 mL		SAMPLE	4	1515725003-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
8	1515725004	F9M84	30.25 grams	5 mL		SAMPLE	4	1515725004-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
9	1515725005	F9M85	30.05 grams	5 mL		SAMPLE	4	1515725005-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
10	1515725006	F9M86	30.42 grams	5 mL		SAMPLE	4	1515725006-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
11	1515725007	F9M87	30.34 grams	5 mL		SAMPLE	4	1515725007-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
12	1515725008	F9M88	30.22 grams	5 mL		SAMPLE	4	1515725008-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
13	1515725009	F9M89	30.3 grams	5 mL		SAMPLE	4	1515725009-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
14	1515725010	F9M90	30.23 grams	5 mL		SAMPLE	4	1515725010-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
15	1515725011	F9M91	30.06 grams	5 mL		SAMPLE	4	1515725011-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
16	1515725012	F9M91MS	30.3 grams	5 mL		MS	4	1515725012-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
17	1515725013	F9M91MSD	30.47 grams	5 mL		MSD	4	1515725013-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
18	1515725014	F9M92	30.01 grams	5 mL		SAMPLE	4	1515725014-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
19	1515725015	F9M93	30.43 grams	5 mL		SAMPLE	4	1515725015-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
20	1515725016	F9M94	30.05 grams	5 mL		SAMPLE	4	1515725016-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
21	1515725017	F9M95	30.18 grams	5 mL		SAMPLE	4	1515725017-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
22	1515725018	F9M96	30.18 grams	5 mL		SAMPLE	4	1515725018-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
23	1515725019	F9M97	30.4 grams	5 mL		SAMPLE	4	1515725019-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
24	1515725020	F9M98	30.03 grams	5 mL		SAMPLE	4	1515725020-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
25	1515725021	F9M99	30.35 grams	5 mL		SAMPLE	4	1515725021-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015

ALS Laboratory Group GPC Injection Logbook

Method:	**SOM01.2**	**Analytical Method**	**Pest/ARO**	**Work Order ID:**	**1515725**	**Horizon Batch ID:**	**150592**
Account:	**08201**	**Instrument ID:**	**GPC06**	**Column ID:**	**8181346-1 690492-1**	**Flow Rate:**	**5mL/min.**
Load Date:	**6/14/15**	**Load Time:**	**15:02**	**Pressure (PSI)**	**159**	**PST/ARO Weekly ID:**	**6/10/15**

Position	ALS Sample ID	Client Sample ID	Sample Notes/Comments
1	451806	GPC06 Blank	
2	451343	MB for HBN 150431	
3	451344	LCS-P for HBN 150431	
4	451345	LCS-A for HBN 150431	
5	1515725001	F9K00	
6	1515725002	F9M82	
7	1515725003	F9M83	
8	1515725004	F9M84	
9	1515725005	F9M85	
10	1515725006	F9M86	
11	1515725007	F9M87	
12	1515725008	F9M88	
13	1515725009	F9M89	
14	1515725010	F9M90	
15	1515725011	F9M91	
16	1515725012	F9M91MS	
17	1515725013	F9M91MSD	
18	1515725012	F9M91MS	
19	1515725013	F9M91MSD	
20	1515725014	F9M92	
21	1515725015	F9M93	
22	1515725016	F9M94	
23	1515725017	F9M95	
24	1515725018	F9M96	
25	1515725019	F9M97	
26	1515725020	F9M98	
27	1515725021	F9M99	
28	Rinse		Column Wash

$MeCl_2$ Lot:	**97623**	**General Comments:**
Dump Time (min.):	**18.7**	if noted above - 1:10 dilutions made to protect GPC column
Collect Time (min.):	**29.5**	Analyst - Lyle Edwards
Wash Time(min.):	**10**	
GPC Standard ID:	**195WS38822**	

ORGANIC EXTRACTION LOGBOOK ALS GROUP USA, Corp

Client U.S. EPA Region 6 Case/SDG # 45316 / F9K00 Horizon Extraction HBN 150431

Work Order# 1515725 Sample #'s 1-21 Extraction Method SOMO 1.2

SOP: OE - ED-SOM Analytical Fraction Pest Matrix SOIL

Date samples weighed out 6/12/15 by Peter Tran balance # 120212065

See extraction batch sheet for sample weights/volumes, initial pH's (waters), and final concentration volumes.

Extraction: Date/Time 6/12/15 1530 Stop Date/Time (CLLE's/Soxlet) ——— Extracted by pT

	Drying Agent	Salt	Solvents		Exchange Solvent
Solvent/Reagent used	☑ Na_2SO_4 ☐ N/A	☐ NaCl ☐ N/A	☐ CH_2Cl_2 ☐ Hexane ☐ Hexane/Ether ( )	☐ Acetonitrile ☑ CH_2Cl_2/Acetone (1:1)	☑ Hexane ☐ Toluene ☐ N/A ☐ CH_2Cl_2
Vendor	JT Baker		JT Baker	B.J	[illegible]
Lot Number	1898		98930	DM245	DM196
Amount	per SOP		per SOP	per SOP	[illegible]

	Surrogate/DMC STD	LCS Standard	MS/MSD Standard	RLVS Standard
Standard ID	26390	26391	26392	
Spiked Amount	1mL	0.2mL	0.2mL	
Spiked By	pT	pT	pT	

	Acid Solution	Base Solution		
Standard ID				
Spiked Amount *				
pH Adjustment *				
Spiked By				

* exceptions are noted in comments below

Comments

Pre-GPC Concentration: Date/Time 6/13/15 15:50 by [illegible] Comments The Temp was 67°C

Final Concentration: Date/Time 6/15/15 13:00 by [illegible] Comments The Temp was 79°C

Florisil (pesticides only) Date/Time 6/16/15 19:00 by [illegible] Florisil Column Lot # 24680

Comments

Checker Signature [signature] Date 6/16/15

STANDARD REPORT

Working Standard - PSTCLP SURR

PSTCLP SURR		Description - PSTCLP TCX/DCB 10/20 INT
Standard: 28303	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: INT	**Lab Lot:** EGC150612001	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	10 ug/mL
2	2051-24-3	Decachlorobiphenyl	20 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21715	PST CLP SURR	PSTCLP SURR STOCK	A098794	5 mL	01/31/2020
28300	Hexanes	Hexanes DI907	DL907	45 mL	06/11/2025

STANDARD REPORT

Working Standard - PSTCLP TOX

PSTCLP TOX		Description - PSTCLP TOX 1/2/100 INT
Standard: 28304	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: INT	**Lab Lot:** EGC150612002	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	8001-35-2	Toxaphene	100.15 ug/mL
2	877-09-8	Tetrachloro-m-xylene	1 ug/mL
3	2051-24-3	Decachlorobiphenyl	2 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21739	Toxaphene	Toxaphene 1000 ppm	031412	5 mL	03/14/2022
28300	Hexanes	Hexanes DI907	DL907	40 mL	06/11/2025
28303	PSTCLP SURR	PSTCLP TCX/DCB 10/20 INT	EGC150612001	5 mL	12/12/2015

STANDARD REPORT

Working Standard - PSTCLP PEST

PSTCLP PEST — **Description - PSTCLP PEST 1/2/10 INT**

Standard: 28305 **Created By:** S. Sagers **Amount:** 50 mL
MFG: ALS **Create Date:** 06/12/2015 **Expires:** 12/12/2015
MFG Lot: INT **Lab Lot:** EGC150612003 **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	1 ug/mL
2	319-84-6	alpha-BHC	1 ug/mL
3	58-89-9	gamma-BHC	1 ug/mL
4	319-85-7	beta-BHC	1 ug/mL
5	319-86-8	delta-BHC	1 ug/mL
6	76-44-8	Heptachlor	1 ug/mL
7	309-00-2	Aldrin	1 ug/mL
8	1024-57-3	Heptachlor epoxide	1 ug/mL
9	12789-03-6	gamma-Chlordane	1 ug/mL
10	5103-71-9	alpha-Chlordane	1 ug/mL
11	72-55-9	4,4'-DDE	2 ug/mL
12	959-98-8	Endosulfan-I	1 ug/mL
13	60-57-1	Dieldrin	2 ug/mL
14	72-20-8	Endrin	2 ug/mL
15	72-54-8	4,4'-DDD	2 ug/mL
16	33213-65-9	Endosulfan-II	2 ug/mL
17	50-29-3	4,4'-DDT	2 ug/mL
18	7421-93-4	Endrin aldehyde	2 ug/mL
19	72-43-5	Methoxychlor	10 ug/mL
20	1031-07-8	Endosulfan sulfate	2 ug/mL
21	53494-70-5	Endrin ketone	2 ug/mL
22	2051-24-3	Decachlorobiphenyl	2 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
25777	PSTCLP MIXC	PSTCLP MIXC 5/10/50	A093873	5 mL	03/31/2017
28300	Hexanes	Hexanes DI907	DL907	45 mL	06/11/2025

STANDARD REPORT

Working Standard - PSTCLP TOX1

PSTCLP TOX1 — **Description - PSTCLP TOX1 .005/.01/.5**

Standard:	28306	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612004	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	8001-35-2	Toxaphene	0.50075 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.005 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.01 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99.5 mL	06/11/2025
28304	PSTCLP TOX	PSTCLP TOX 1/2/100 INT	EGC150612002	0.5 mL	12/12/2015

STANDARD REPORT

Working Standard - PSTCLP TOX2

PSTCLP TOX2 — **Description - PSTCLP TOX2 .01/.02/1**

Standard:	28307	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612005	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	8001-35-2	Toxaphene	1.0015 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.01 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99 mL	06/11/2025
28304	PSTCLP TOX	PSTCLP TOX 1/2/100 INT	EGC150612002	1 mL	12/12/2015

STANDARD REPORT

Working Standard - PSTCLP TOX3

PSTCLP TOX3		Description - PSTCLP TOX3 .02/.04/2
Standard: 28308	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612006	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	8001-35-2	Toxaphene	2.003 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	98 mL	06/11/2025
28304	PSTCLP TOX	PSTCLP TOX 1/2/100 INT	EGC150612002	2 mL	12/12/2015

STANDARD REPORT

Working Standard - PSTCLP TOX4

PSTCLP TOX4		Description - PSTCLP TOX4 .04/.08/4
Standard: 28309	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612007	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	8001-35-2	Toxaphene	4.006 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.04 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.08 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	96 mL	06/11/2025
28304	PSTCLP TOX	PSTCLP TOX 1/2/100 INT	EGC150612002	4 mL	12/12/2015

STANDARD REPORT

Working Standard - PSTCLP TOX5

PSTCLP TOX5		Description - PSTCLP TOX5 .1/.2/10
Standard: 28310	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612008	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	8001-35-2	Toxaphene	10.015 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.1 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.2 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	90 mL	06/11/2025
28304	PSTCLP TOX	PSTCLP TOX 1/2/100 INT	EGC150612002	10 mL	12/12/2015

STANDARD REPORT

Working Standard - PSTCLP PST1

PSTCLP PST1 — **Description - PSTCLP PST1 .005/.01/.05**

Standard:	28311	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612009	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	0.005 ug/mL
2	319-84-6	alpha-BHC	0.005 ug/mL
3	58-89-9	gamma-BHC	0.005 ug/mL
4	319-85-7	beta-BHC	0.005 ug/mL
5	319-86-8	delta-BHC	0.005 ug/mL
6	76-44-8	Heptachlor	0.005 ug/mL
7	309-00-2	Aldrin	0.005 ug/mL
8	1024-57-3	Heptachlor epoxide	0.005 ug/mL
9	12789-03-6	gamma-Chlordane	0.005 ug/mL
10	5103-71-9	alpha-Chlordane	0.005 ug/mL
11	72-55-9	4,4'-DDE	0.01 ug/mL
12	959-98-8	Endosulfan-I	0.005 ug/mL
13	60-57-1	Dieldrin	0.01 ug/mL
14	72-20-8	Endrin	0.01 ug/mL
15	72-54-8	4,4'-DDD	0.01 ug/mL
16	33213-65-9	Endosulfan-II	0.01 ug/mL
17	50-29-3	4,4'-DDT	0.01 ug/mL
18	7421-93-4	Endrin aldehyde	0.01 ug/mL
19	72-43-5	Methoxychlor	0.05 ug/mL
20	1031-07-8	Endosulfan sulfate	0.01 ug/mL
21	53494-70-5	Endrin ketone	0.01 ug/mL
22	2051-24-3	Decachlorobiphenyl	0.01 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99.5 mL	06/11/2025
28305	PSTCLP PEST	PSTCLP PEST 1/2/10 INT	EGC150612003	0.5 mL	12/12/2015

STANDARD REPORT

Working Standard - PSTCLP PST2

PSTCLP PST2 — **Description - PSTCLP PST2 .01/.02/.1**

Standard: 28312	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612010	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	0.01 ug/mL
2	319-84-6	alpha-BHC	0.01 ug/mL
3	58-89-9	gamma-BHC	0.01 ug/mL
4	319-85-7	beta-BHC	0.01 ug/mL
5	319-86-8	delta-BHC	0.01 ug/mL
6	76-44-8	Heptachlor	0.01 ug/mL
7	309-00-2	Aldrin	0.01 ug/mL
8	1024-57-3	Heptachlor epoxide	0.01 ug/mL
9	12789-03-6	gamma-Chlordane	0.01 ug/mL
10	5103-71-9	alpha-Chlordane	0.01 ug/mL
11	72-55-9	4,4'-DDE	0.02 ug/mL
12	959-98-8	Endosulfan-I	0.01 ug/mL
13	60-57-1	Dieldrin	0.02 ug/mL
14	72-20-8	Endrin	0.02 ug/mL
15	72-54-8	4,4'-DDD	0.02 ug/mL
16	33213-65-9	Endosulfan-II	0.02 ug/mL
17	50-29-3	4,4'-DDT	0.02 ug/mL
18	7421-93-4	Endrin aldehyde	0.02 ug/mL
19	72-43-5	Methoxychlor	0.1 ug/mL
20	1031-07-8	Endosulfan sulfate	0.02 ug/mL
21	53494-70-5	Endrin ketone	0.02 ug/mL
22	2051-24-3	Decachlorobiphenyl	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99 mL	06/11/2025
28305	PSTCLP PEST	PSTCLP PEST 1/2/10 INT	EGC150612003	1 mL	12/12/2015

STANDARD REPORT

Working Standard - PSTCLP PST3

PSTCLP PST3 — **Description - PSTCLP PST3 .02/.04/.2**

Standard: 28313	**Created By:** S. Sagers	**Amount:** 200 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612011	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
2	319-84-6	alpha-BHC	0.02 ug/mL
3	58-89-9	gamma-BHC	0.02 ug/mL
4	319-85-7	beta-BHC	0.02 ug/mL
5	319-86-8	delta-BHC	0.02 ug/mL
6	76-44-8	Heptachlor	0.02 ug/mL
7	309-00-2	Aldrin	0.02 ug/mL
8	1024-57-3	Heptachlor epoxide	0.02 ug/mL
9	12789-03-6	gamma-Chlordane	0.02 ug/mL
10	5103-71-9	alpha-Chlordane	0.02 ug/mL
11	72-55-9	4,4'-DDE	0.04 ug/mL
12	959-98-8	Endosulfan-I	0.02 ug/mL
13	60-57-1	Dieldrin	0.04 ug/mL
14	72-20-8	Endrin	0.04 ug/mL
15	72-54-8	4,4'-DDD	0.04 ug/mL
16	33213-65-9	Endosulfan-II	0.04 ug/mL
17	50-29-3	4,4'-DDT	0.04 ug/mL
18	7421-93-4	Endrin aldehyde	0.04 ug/mL
19	72-43-5	Methoxychlor	0.2 ug/mL
20	1031-07-8	Endosulfan sulfate	0.04 ug/mL
21	53494-70-5	Endrin ketone	0.04 ug/mL
22	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	196 mL	06/11/2025
28305	PSTCLP PEST	PSTCLP PEST 1/2/10 INT	EGC150612003	4 mL	12/12/2015

STANDARD REPORT

Working Standard - PSTCLP PST4

PSTCLP PST4 — **Description - PSTCLP PST4 .04/.08/.4**

Standard:	28314	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612012	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	0.04 ug/mL
2	319-84-6	alpha-BHC	0.04 ug/mL
3	58-89-9	gamma-BHC	0.04 ug/mL
4	319-85-7	beta-BHC	0.04 ug/mL
5	319-86-8	delta-BHC	0.04 ug/mL
6	76-44-8	Heptachlor	0.04 ug/mL
7	309-00-2	Aldrin	0.04 ug/mL
8	1024-57-3	Heptachlor epoxide	0.04 ug/mL
9	12789-03-6	gamma-Chlordane	0.04 ug/mL
10	5103-71-9	alpha-Chlordane	0.04 ug/mL
11	72-55-9	4,4'-DDE	0.08 ug/mL
12	959-98-8	Endosulfan-I	0.04 ug/mL
13	60-57-1	Dieldrin	0.08 ug/mL
14	72-20-8	Endrin	0.08 ug/mL
15	72-54-8	4,4'-DDD	0.08 ug/mL
16	33213-65-9	Endosulfan-II	0.08 ug/mL
17	50-29-3	4,4'-DDT	0.08 ug/mL
18	7421-93-4	Endrin aldehyde	0.08 ug/mL
19	72-43-5	Methoxychlor	0.4 ug/mL
20	1031-07-8	Endosulfan sulfate	0.08 ug/mL
21	53494-70-5	Endrin ketone	0.08 ug/mL
22	2051-24-3	Decachlorobiphenyl	0.08 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	96 mL	06/11/2025
28305	PSTCLP PEST	PSTCLP PEST 1/2/10 INT	EGC150612003	4 mL	12/12/2015

STANDARD REPORT

Working Standard - PSTCLP PST5

PSTCLP PST5 — **Description - PSTCLP PST5 .1/.2/1**

Standard: 28315	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612013	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	0.1 ug/mL
2	319-84-6	alpha-BHC	0.1 ug/mL
3	58-89-9	gamma-BHC	0.1 ug/mL
4	319-85-7	beta-BHC	0.1 ug/mL
5	319-86-8	delta-BHC	0.1 ug/mL
6	76-44-8	Heptachlor	0.1 ug/mL
7	309-00-2	Aldrin	0.1 ug/mL
8	1024-57-3	Heptachlor epoxide	0.1 ug/mL
9	12789-03-6	gamma-Chlordane	0.1 ug/mL
10	5103-71-9	alpha-Chlordane	0.1 ug/mL
11	72-55-9	4,4'-DDE	0.2 ug/mL
12	959-98-8	Endosulfan-I	0.1 ug/mL
13	60-57-1	Dieldrin	0.2 ug/mL
14	72-20-8	Endrin	0.2 ug/mL
15	72-54-8	4,4'-DDD	0.2 ug/mL
16	33213-65-9	Endosulfan-II	0.2 ug/mL
17	50-29-3	4,4'-DDT	0.2 ug/mL
18	7421-93-4	Endrin aldehyde	0.2 ug/mL
19	72-43-5	Methoxychlor	1 ug/mL
20	1031-07-8	Endosulfan sulfate	0.2 ug/mL
21	53494-70-5	Endrin ketone	0.2 ug/mL
22	2051-24-3	Decachlorobiphenyl	0.2 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	90 mL	06/11/2025
28305	PSTCLP PEST	PSTCLP PEST 1/2/10 INT	EGC150612003	10 mL	12/12/2015

STANDARD REPORT

Working Standard - PSTCLP IBLK

PSTCLP IBLK — **Description - PSTCLP IBLK 0.02/0.04**

Standard:	28316	**Created By:**	S. Sagers	**Amount:**	500 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612014	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
2	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	499 mL	06/11/2025
28303	PSTCLP SURR	PSTCLP TCX/DCB 10/20 INT	EGC150612001	1 mL	12/12/2015

STANDARD REPORT

Working Standard - PSTCLP PEM

PSTCLP PEM		**Description - PSTCLP PEM .01/.02/.05/.1/.25**
Standard: 28317	**Created By:** S. Sagers	**Amount:** 200 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612015	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	319-84-6	alpha-BHC	0.01 ug/mL
2	58-89-9	gamma-BHC	0.01 ug/mL
3	319-85-7	beta-BHC	0.01 ug/mL
4	72-20-8	Endrin	0.05 ug/mL
5	50-29-3	4,4'-DDT	0.1 ug/mL
6	72-43-5	Methoxychlor	0.25 ug/mL
7	2051-24-3	Decachlorobiphenyl	0.02 ug/mL
8	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21717	PSTCLP PEM	PSTCLP PEM 1/2/5/10/25	A085642	2 mL	12/31/2015
28300	Hexanes	Hexanes DI907	DL907	198 mL	06/11/2025

STANDARD REPORT

Working Standard - PSTCLP 245TP

PSTCLP 245TP		Description - PSTCLP 245TCP .1
Standard: 28318	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612016	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	95-95-4	2,4,5-Trichlorophenol	0.10035 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
25776	PSTCLP245TP	PSTCLP 245TCP 1000	A099095	0.025 mL	01/31/2020
28300	Hexanes	Hexanes DI907	DL907	49.975 mL	06/11/2025

STANDARD REPORT

Working Standard - PSTCLP SUR

PSTCLP SUR		**Description - PSTCLP 2.2 SURR SPIKE 0.2/0.4**
Standard: 28319	**Created By:** S. Sagers	**Amount:** 1000 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 01/31/2020
MFG Lot: SPIKE	**Lab Lot:** EGC150612017	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	0.2 ug/mL
2	2051-24-3	Decachlorobiphenyl	0.4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21715	PST CLP SURR	PSTCLP SURR STOCK	A098794	2 mL	01/31/2020
28301	Acetone	Acetone DL683	DL683	998 mL	06/11/2025

STANDARD REPORT

Working Standard - PSTCLP LCS

PSTCLP LCS — **Description - PSTCLP LCS SPIKE .25/.5 SPIKE**

Standard:	28320	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	SPIKE	**Lab Lot:**	EGC150612018	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	58-89-9	gamma-BHC	0.25 ug/mL
2	1024-57-3	Heptachlor epoxide	0.25 ug/mL
3	12789-03-6	gamma-Chlordane	0.25 ug/mL
4	60-57-1	Dieldrin	0.5 ug/mL
5	72-55-9	4,4'-DDE	0.5 ug/mL
6	1031-07-8	Endosulfan sulfate	0.5 ug/mL
7	72-20-8	Endrin	0.5 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
15473	PSTCLP LCS	PSTCLP LCS 10/20 STOCK	A088867	2.5 mL	11/30/2016
28300	Hexanes	Hexanes DI907	DL907	97.5 mL	06/11/2025

STANDARD REPORT

Working Standard - PSTCLP MS

PSTCLP MS — **Description - PSTCLP MS SPIKE 2.5/5 SPIKE**

Standard:	28321	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	SPIKE	**Lab Lot:**	EGC150612019	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	58-89-9	gamma-BHC	2.505 ug/mL
2	50-29-3	4,4'-DDT	5.025 ug/mL
3	60-57-1	Dieldrin	5.02 ug/mL
4	72-20-8	Endrin	5.02 ug/mL
5	76-44-8	Heptachlor	2.51 ug/mL
6	309-00-2	Aldrin	2.515 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
15377	PSTCLP MS	PSTCLP MS 50/100	102711	5 mL	10/27/2016
28300	Hexanes	Hexanes DI907	DL907	95 mL	06/11/2025

STANDARD REPORT

Working Standard - PSTCLP GPC

PSTCLP GPC — **Description - PSTCLP GPC .02/.04 SPIKE**

Standard: 28322 | **Created By:** S. Sagers | **Amount:** 1000 mL
MFG: ALS | **Create Date:** 06/12/2015 | **Expires:** 12/12/2015
MFG Lot: GPC WEEKLY | **Lab Lot:** EGC150612020 | **Usable:** Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	58-89-9	gamma-BHC	0.02004 ug/mL
2	50-29-3	4,4'-DDT	0.0402 ug/mL
3	60-57-1	Dieldrin	0.04016 ug/mL
4	72-20-8	Endrin	0.04016 ug/mL
5	76-44-8	Heptachlor	0.02008 ug/mL
6	309-00-2	Aldrin	0.02012 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
15377	PSTCLP MS	PSTCLP MS 50/100	102711	0.4 mL	10/27/2016
28302	MeCl2	Methylene Chloride 89762	89762	999.6 mL	06/11/2025

STANDARD REPORT

Working Standard - PSTCLP SUR

PSTCLP SUR		Description - PSTCLP 1.2 SURR SPIKE 0.6/0.12
Standard: 28323	**Created By:** S. Sagers	**Amount:** 1000 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 01/31/2020
MFG Lot: SPIKE	**Lab Lot:** EGC150612021	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	0.6 ug/mL
2	2051-24-3	Decachlorobiphenyl	1.2 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21715	PST CLP SURR	PSTCLP SURR STOCK	A098794	6 mL	01/31/2020
28301	Acetone	Acetone DL683	DL683	994 mL	06/11/2025

21715 S

RESTEK CERTIFIED REFERENCE MATERIAL

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is Intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Rec'd 12/13/13

Catalog No. : 32453 **Lot No.:** A098794

Description : SOM01.1 Pesticide Surrogate Standard

Pesticide Surrogate Mix 100-200µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2020 **Storage:** 0°C or colder

Handling: Contains PCBs - sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
	2,4,5,6-Tetrachloro-m-xylene		100.9 µg/mL	+/- 0.7157 µg/mL	Gravimetric
	CAS # 877-09-8	(Lot 0052481)		+/- 2.0258 µg/mL	Unstressed
	Purity 98%			+/- 3.4202 µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)		201.0 µg/mL	+/- 1.4253 µg/mL	Gravimetric
	CAS # 2051-24-3	(Lot ER071509-01)		+/- 4.0339 µg/mL	Unstressed
	Purity 99%			+/- 6.8105 µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

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CERTIFIED WEIGHT REPORT

Lot #

Part Number: 20021 **Solvent(s):** K38E41 Hexane
Lot Number: 031412
Description: Toxaphene

21739

Expiration Date: 031422
Storage: 4 °C
Nominal Concentration (µg/mL): 1000

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to: 100.0 0.002 Flask Uncertainty

Note: Toxaphene is a technical mixture of isomers.

Formulated By:	Gabriel Helland	031412 DATE
Reviewed By:	Pedro L. Rentas	031412 DATE

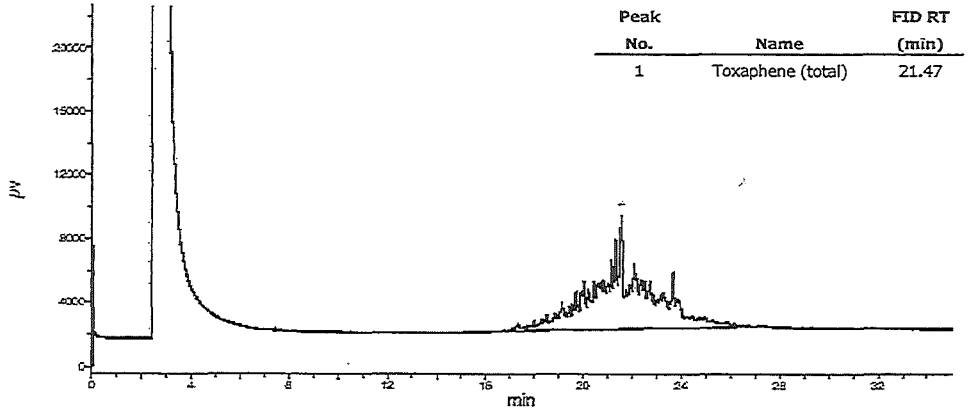
MSDS Information
(Solvent Safety Info. On Attached pg.)

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty ± Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1. Toxaphene	283	393-104A	1000	99	0.5	0.10100	0.10115	1001.5	0.0101	08001-35-2	N/A	orl-rat 69mg/kg

Run 21, "P20021 L031412 [1000µg/mL in hexane]"

Run Length: 35.00 min, 20999 points at 10 points/second.
Created: Thu, Mar 15, 2012 at 3:48:39 AM.
Sampled: Sequence "031412-GC3M1", Method "GC3-M1".
Analyzed using Method "GC3-M1".

Comments
GC3-M1 Analysis by Melissa Stonier
Column ID SPB-608 3 meter X 0.53mm X5µm film thickness
Flow rates: Helium (carrier) = 5mL/min, Helium (make-up) = 25mL/min
Hydrogen (make-up) = 30mL/min, Air (make-up) = 350mL/min
Oven Profile: Temp 1 = 150°C (Time 1 = 4 min), Temp 2 = 290°C (Time 2 = 13.5 min)
Rate = 8°C/min, Total run time = 35 min
Injector temp. = 200°C, FID Temp. = 300°C. FID Signal = Edaq Channel 1
Standard injection =1.0µL, Range=3



Peak No.	Name	FID RT (min)
1	Toxaphene (total)	21.47

21739

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Rec'd 10/20/14

Catalog No. : 32454 **Lot No.:** A093873

Description : SOM01.0 Pesticide Resolution Check Mix

Organochlorine Pesticide Resolution Check Mix 10-100µg/mL, Hexane/Toluene (90:10), 1mL/ampul

Container Size : **Pkg Amt:**

Expiration Date : March 2017 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene	10.0 µg/mL	+/- 0.0818	µg/mL	Gravimetric
	CAS # 877-09-8		+/- 0.3571	µg/mL	Unstressed
	Purity 98%		+/- 0.6110	µg/mL	Stressed
2	alpha-BHC	10.0 µg/mL	+/- 0.0818	µg/mL	Gravimetric
	CAS # 319-84-6		+/- 0.3573	µg/mL	Unstressed
	Purity 99%		+/- 0.6113	µg/mL	Stressed
3	gamma-BHC (Lindane)	10.0 µg/mL	+/- 0.0818	µg/mL	Gravimetric
	CAS # 58-89-9		+/- 0.3573	µg/mL	Unstressed
	Purity 99%		+/- 0.6113	µg/mL	Stressed
4	beta-BHC	10.0 µg/mL	+/- 0.0818	µg/mL	Gravimetric
	CAS # 319-85-7		+/- 0.3571	µg/mL	Unstressed
	Purity 98%		+/- 0.6110	µg/mL	Stressed
5	delta-BHC	10.0 µg/mL	+/- 0.0818	µg/mL	Gravimetric
	CAS # 319-86-8		+/- 0.3573	µg/mL	Unstressed
	Purity 99%		+/- 0.6113	µg/mL	Stressed
6	Heptachlor	10.0 µg/mL	+/- 0.0818	µg/mL	Gravimetric
	CAS # 76-44-8		+/- 0.3573	µg/mL	Unstressed
	Purity 99%		+/- 0.6113	µg/mL	Stressed
7	Aldrin	10.0 µg/mL	+/- 0.0818	µg/mL	Gravimetric
	CAS # 309-00-2		+/- 0.3573	µg/mL	Unstressed
	Purity 99%		+/- 0.6113	µg/mL	Stressed
8	Heptachlor epoxide (isomer B)	10.0 µg/mL	+/- 0.0818	µg/mL	Gravimetric
	CAS # 1024-57-3		+/- 0.3573	µg/mL	Unstressed
	Purity 99%		+/- 0.6113	µg/mL	Stressed
9	trans-Chlordane	10.0 µg/mL	+/- 0.0818	µg/mL	Gravimetric
	CAS # 5103-74-2		+/- 0.3573	µg/mL	Unstressed
	Purity 99%		+/- 0.6113	µg/mL	Stressed

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Catalog No. : 32074 **Lot No.:** A085642

Recd 12/13/13

Description : Pesticide Performance Eval Mix w/Surrogate

Performance Evaluation Std. 3/90 SOW w/surrogates 1-25ug/mL, Hexane, 1mL/ampul

Container Size : **Pkg Amt:**

Expiration Date : December 2015 **Storage:** 10°C or colder

Handling: Sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
	2,4,5,6-Tetrachloro-m-xylene	2.0 ug/mL	+/- 0.0332	ug/mL	Gravimetric
	CAS # 877-09-8		+/- 0.0770	ug/mL	Unstressed
	Purity 98%		+/- 0.1256	ug/mL	Stressed
2	alpha-BHC	1.0 ug/mL	+/- 0.0166	ug/mL	Gravimetric
	CAS # 319-84-6		+/- 0.0385	ug/mL	Unstressed
	Purity 99%		+/- 0.0628	ug/mL	Stressed
3	gamma-BHC (Lindane)	1.0 ug/mL	+/- 0.0166	ug/mL	Gravimetric
	CAS # 58-89-9		+/- 0.0385	ug/mL	Unstressed
	Purity 99%		+/- 0.0628	ug/mL	Stressed
4	beta-BHC	1.0 ug/mL	+/- 0.0166	ug/mL	Gravimetric
	CAS # 319-85-7		+/- 0.0385	ug/mL	Unstressed
	Purity 98%		+/- 0.0628	ug/mL	Stressed
5	Endrin	5.0 ug/mL	+/- 0.0808	ug/mL	Gravimetric
	CAS # 72-20-8		+/- 0.1917	ug/mL	Unstressed
	Purity 99%		+/- 0.3135	ug/mL	Stressed
6	4,4'-DDT	10.0 ug/mL	+/- 0.1615	ug/mL	Gravimetric
	CAS # 50-29-3		+/- 0.3834	ug/mL	Unstressed
	Purity 99%		+/- 0.6269	ug/mL	Stressed
7	Methoxychlor	25.0 ug/mL	+/- 0.4032	ug/mL	Gravimetric
	CAS # 72-43-5		+/- 0.9583	ug/mL	Unstressed
	Purity 99%		+/- 1.5672	ug/mL	Stressed
8	Decachlorobiphenyl	2.0 ug/mL	+/- 0.0332	ug/mL	Gravimetric
	CAS # 2051-24-3		+/- 0.0771	ug/mL	Unstressed
	Purity 99%		+/- 0.1256	ug/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

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Rec'd 10/20/14

Catalog No. : 32027 **Lot No.:** A099095

Description : 2,4,5,6-tetrachloro-m-xylene Mix

Tetrachloro-m-xylene 200µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2020 **Storage:** 10°C or colder

Handling: Sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene	200.7 µg/mL	+/- 1.1921	µg/mL	Gravimetric
	CAS # 877-09-8 (Lot 0052481)		+/- 4.0268	µg/mL	Unstressed
	Purity 98%		+/- 6.7998	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

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Rec'd 06/14/12

Catalog No. : 32040 **Lot No.:** A088867

Description : L/C Pesticide Lab Control Sample

L/C Lab Control Sample 10-20ug/mL, Acetone, 1mL/ampul

Container Size : **Pkg Amt:**

Expiration Date : November 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
	gamma-BHC (Lindane)	10.0 ug/mL	+/- 0.1396	ug/mL	Gravimetric
	CAS # 58-89-9		+/- 0.3747	ug/mL	Unstressed
	Purity ----%		+/- 0.6217	ug/mL	Stressed
2	Heptachlor epoxide (isomer B)	10.0 ug/mL	+/- 0.1396	ug/mL	Gravimetric
	CAS # 1024-57-3		+/- 0.3747	ug/mL	Unstressed
	Purity 99%		+/- 0.6217	ug/mL	Stressed
3	trans-Chlordane	10.0 ug/mL	+/- 0.1396	ug/mL	Gravimetric
	CAS # 5103-74-2		+/- 0.3747	ug/mL	Unstressed
	Purity 99%		+/- 0.6217	ug/mL	Stressed
4	4,4'-DDE	20.0 ug/mL	+/- 0.2792	ug/mL	Gravimetric
	CAS # 72-55-9		+/- 0.7495	ug/mL	Unstressed
	Purity 99%		+/- 1.2433	ug/mL	Stressed
5	Dieldrin	20.0 ug/mL	+/- 0.2792	ug/mL	Gravimetric
	CAS # 60-57-1		+/- 0.7495	ug/mL	Unstressed
	Purity 99%		+/- 1.2433	ug/mL	Stressed
6	Endrin	20.0 ug/mL	+/- 0.2792	ug/mL	Gravimetric
	CAS # 72-20-8		+/- 0.7495	ug/mL	Unstressed
	Purity 99%		+/- 1.2433	ug/mL	Stressed
7	Endosulfan sulfate	20.0 ug/mL	+/- 0.2792	ug/mL	Gravimetric
	CAS # 1031-07-8		+/- 0.7495	ug/mL	Unstressed
	Purity 99%		+/- 1.2433	ug/mL	Stressed
Solvent:	Acetone				
	CAS # 67-64-1				
	Purity 99%				

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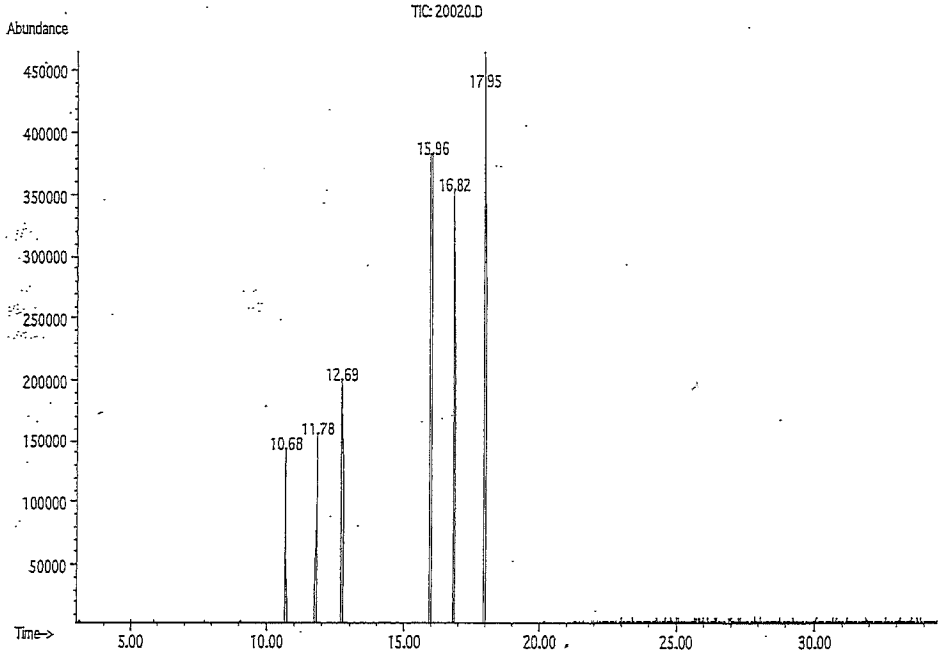
Recd 06/06/12

CERTIFIED WEIGHT REPORT

		Lot #	Solvent(s):
Part Number:	20020	J35E37	Acetone
Lot Number:	102711		
Description:	CLP Pesticide Matrix Spiking Solution		
	6 components		
Expiration Date:	102716		
	Storage: 4 °C		
Nominal Concentration (µg/mL):	Varied		
	5E-05 Balance Uncertainty		
Volume(s) shown below were combined and diluted to:	25.0 0.002 Flask Uncertainty		

Pat Scaturchio		102711
Formulated By:	Pat Scaturchio	DATE
Pedro Rentas		102711
Reviewed By:	Pedro L. Rentas	DATE

Compound	Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Uncertainty Pipette	Initial Conc.(ug/mL)	Final Conc.(ug/mL)	Expanded Uncertainty (+/-) (µg/mL)	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. g-BHC (Lindane)	20120	073109	0.10	2.50	0.025	501.4	50.1	0.00891	00058-89-9	0.5mg/m3 (skin)	orl-rat 76mg/kg
2. 4,4'-DDT	20120	073109	0.10	2.50	0.025	1004.3	100.5	0.00571	00050-29-3	N/A	orl-rat 87mg/kg
3. Endrin	20120	073109	0.10	2.50	0.025	1003.5	100.4	0.00571	00072-20-8	0.1mg/m3 (skin)	orl-rat 3mg/kg
4. Heptachlor	20120	073109	0.10	2.50	0.025	501.7	50.2	0.00890	00076-44-8	0.5mg/m3 (skin)	orl-rat 40mg/kg
5. Aldrin	20120	073109	0.10	2.50	0.025	502.9	50.3	0.00889	00309-00-2	0.25mg/m3 (skin)	orl-rat 39mg/kg
6. Dieldrin	20120	073109	0.10	2.50	0.025	1003.5	100.4	0.00571	00060-57-1	0.25mg/m3 (skin)	orl-rat 38300ug/kg



Method GC7MSD-1.M: Column: SPB-608 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 150°C (4min.), Temp 2 = 290°C (13.5 min.), Rate = 8°C/min., Injector B= 200°C, Detector B = 290°C. Split Ratio = 100:1, Scan Rate = 2. Analysis performed by Candice Warren.

Name	MSD RT (min.)
g-BHC (Lindane)	10.67
Heptachlor	11.78
Aldrin	12.69
Dieldrin	15.96
Endrin	16.81
4,4'-DDT	17.93

153747

Batch Worklist

Batch: EGC/ 5810 **Created:** 6/17/2015 16:33 **Instrument:** **HBN:** 150740

Rule: SOM Aroclors, Soil **Analyst:** N. Borges **Status:** WP

Workorder: 1515725 **SDG:** F9K00 **Case:** 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	451343	MB for HBN 150431 [ENVX/21798]	30 grams	5 mL		MB	4		SOMAROS..4	6195	7/26/2015	6/25/2015	
2	451345	LCS-A for HBN 150431 [ENVX/217	30 grams	5 mL		LCS-A	4		SOMAROS..4	6195	7/26/2015	6/25/2015	
3	1515725001	F9K00	30.35 grams	5 mL		SAMPLE	4	1515725001-A	S12AROS..4	5936	7/26/2015	6/25/2015	
4	1515725002	F9M82	30.23 grams	5 mL		SAMPLE	4	1515725002-A	S12AROS..4	5936	7/26/2015	6/25/2015	
5	1515725003	F9M83	30.49 grams	5 mL		SAMPLE	4	1515725003-A	S12AROS..4	5936	7/26/2015	6/25/2015	
6	1515725004	F9M84	30.25 grams	5 mL		SAMPLE	4	1515725004-A	S12AROS..4	5936	7/26/2015	6/25/2015	
7	1515725005	F9M85	30.05 grams	5 mL		SAMPLE	4	1515725005-A	S12AROS..4	5936	7/26/2015	6/25/2015	
8	1515725006	F9M86	30.42 grams	5 mL		SAMPLE	4	1515725006-A	S12AROS..4	5936	7/26/2015	6/25/2015	
9	1515725007	F9M87	30.34 grams	5 mL		SAMPLE	4	1515725007-A	S12AROS..4	5936	7/26/2015	6/25/2015	
10	1515725008	F9M88	30.22 grams	5 mL		SAMPLE	4	1515725008-A	S12AROS..4	5936	7/26/2015	6/25/2015	
11	1515725009	F9M89	30.3 grams	5 mL		SAMPLE	4	1515725009-A	S12AROS..4	5936	7/26/2015	6/25/2015	
12	1515725010	F9M90	30.23 grams	5 mL		SAMPLE	4	1515725010-A	S12AROS..4	5936	7/26/2015	6/25/2015	
13	1515725011	F9M91	30.06 grams	5 mL		SAMPLE	4	1515725011-A	S12AROS..4	5936	7/26/2015	6/25/2015	
14	1515725012	F9M91MS	30.3 grams	5 mL		MS	4	1515725012-A	S12AROS..4	5936	7/26/2015	6/25/2015	
15	1515725013	F9M91MSD	30.47 grams	5 mL		MSD	4	1515725013-A	S12AROS..4	5936	7/26/2015	6/25/2015	
16	1515725014	F9M92	30.01 grams	5 mL		SAMPLE	4	1515725014-A	S12AROS..4	5936	7/26/2015	6/25/2015	
17	1515725015	F9M93	30.43 grams	5 mL		SAMPLE	4	1515725015-A	S12AROS..4	5936	7/26/2015	6/25/2015	
18	1515725016	F9M94	30.05 grams	5 mL		SAMPLE	4	1515725016-A	S12AROS..4	5936	7/26/2015	6/25/2015	
19	1515725017	F9M95	30.18 grams	5 mL		SAMPLE	4	1515725017-A	S12AROS..4	5936	7/26/2015	6/25/2015	
20	1515725018	F9M96	30.18 grams	5 mL		SAMPLE	4	1515725018-A	S12AROS..4	5936	7/26/2015	6/25/2015	
21	1515725019	F9M97	30.4 grams	5 mL		SAMPLE	4	1515725019-A	S12AROS..4	5936	7/26/2015	6/25/2015	
22	1515725020	F9M98	30.03 grams	5 mL		SAMPLE	4	1515725020-A	S12AROS..4	5936	7/26/2015	6/25/2015	
23	1515725021	F9M99	30.35 grams	5 mL		SAMPLE	4	1515725021-A	S12AROS..4	5936	7/26/2015	6/25/2015	

GC/ECD AROCLORS ANALYST WRITE-UP

(ALS)

Batch: EGC/ 5810 Created: 6/17/2015 16:33 Instrument: HBN: 150740

Rule: SOM Aroclors, Soil Analyst: N. Borges Status: WP

Workorder: 1515725 SDG: F9K00 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	451343	MB for HBN 150431 [ENVX/21798]	30 grams	5 mL		MB	4		SOMAROS..4	6195	7/26/2015	6/25/2015	
2	451345	LCS-A for HBN 150431 [ENVX/217	30 grams	5 mL		LCS-A	4		SOMAROS..4	6195	7/26/2015	6/25/2015	
3	1515725001	F9K00	30.35 grams	5 mL		SAMPLE	4	1515725001-A	S12AROS..4	5936	7/26/2015	6/25/2015	
4	1515725002	F9M82	30.23 grams	5 mL		SAMPLE	4	1515725002-A	S12AROS..4	5936	7/26/2015	6/25/2015	
5	1515725003	F9M83	30.49 grams	5 mL		SAMPLE	4	1515725003-A	S12AROS..4	5936	7/26/2015	6/25/2015	
6	1515725004	F9M84	30.25 grams	5 mL		SAMPLE	4	1515725004-A	S12AROS..4	5936	7/26/2015	6/25/2015	
7	1515725005	F9M85	30.05 grams	5 mL		SAMPLE	4	1515725005-A	S12AROS..4	5936	7/26/2015	6/25/2015	
8	1515725006	F9M86	30.42 grams	5 mL		SAMPLE	4	1515725006-A	S12AROS..4	5936	7/26/2015	6/25/2015	
9	1515725007	F9M87	30.34 grams	5 mL		SAMPLE	4	1515725007-A	S12AROS..4	5936	7/26/2015	6/25/2015	
10	1515725008	F9M88	30.22 grams	5 mL		SAMPLE	4	1515725008-A	S12AROS..4	5936	7/26/2015	6/25/2015	
11	1515725009	F9M89	30.3 grams	5 mL		SAMPLE	4	1515725009-A	S12AROS..4	5936	7/26/2015	6/25/2015	
12	1515725010	F9M90	30.23 grams	5 mL		SAMPLE	4	1515725010-A	S12AROS..4	5936	7/26/2015	6/25/2015	
13	1515725011	F9M91	30.06 grams	5 mL		SAMPLE	4	1515725011-A	S12AROS..4	5936	7/26/2015	6/25/2015	
14	1515725012	F9M91MS	30.3 grams	5 mL		MS	4	1515725012-A	S12AROS..4	5936	7/26/2015	6/25/2015	
15	1515725013	F9M91MSD	30.47 grams	5 mL		MSD	4	1515725013-A	S12AROS..4	5936	7/26/2015	6/25/2015	
16	1515725014	F9M92	30.01 grams	5 mL		SAMPLE	4	1515725014-A	S12AROS..4	5936	7/26/2015	6/25/2015	
17	1515725015	F9M93	30.43 grams	5 mL		SAMPLE	4	1515725015-A	S12AROS..4	5936	7/26/2015	6/25/2015	
18	1515725016	F9M94	30.05 grams	5 mL		SAMPLE	4	1515725016-A	S12AROS..4	5936	7/26/2015	6/25/2015	
19	1515725017	F9M95	30.18 grams	5 mL		SAMPLE	4	1515725017-A	S12AROS..4	5936	7/26/2015	6/25/2015	
20	1515725018	F9M96	30.18 grams	5 mL		SAMPLE	4	1515725018-A	S12AROS..4	5936	7/26/2015	6/25/2015	
21	1515725019	F9M97	30.4 grams	5 mL		SAMPLE	4	1515725019-A	S12AROS..4	5936	7/26/2015	6/25/2015	
22	1515725020	F9M98	30.03 grams	5 mL		SAMPLE	4	1515725020-A	S12AROS..4	5936	7/26/2015	6/25/2015	
23	1515725021	F9M99	30.35 grams	5 mL		SAMPLE	4	1515725021-A	S12AROS..4	5936	7/26/2015	6/25/2015	

Samples analyzed: 06/18/2015 ICAL(s) analyzed: 06/17/2015 (A) CCVs: B, C

Instrument: GC20: HP5890 with RTXCLP (30m x 0.32mm ID x 0.50um film) and RTXCLP2 (30m x 0.32mm ID x 0.25um film) columns and EC detectors. Hydrogen carrier gas.

Injection volulme: 2.0 uL. Injector temps: 200C. Detector temps: 320C.

GC Program: 105C for 0 min, 30C/min to 180C for 0 min, 12.5C/min to 330C for 1.05 min 15.55 min total.

Surrogates: All samples passed SOW surrogate criteria.

LCS: All results were within established limits.

MS and MSD: All results were within established limits.

Dilutions: None.

Miscellaneous: None.

: 94774

GC/ECD ARO INJECTION LOG

File Name	Date Inject	Time Inject	Sample Name	Other ID	Instr ID	Column ID
20150617A_002.rst	06/17/2015	17:44:04	PRIME		GC20A	RTXCLP 0.32mm x 30m
20150617A_003.rst	06/17/2015	18:00:26	PRIME		GC20A	RTXCLP 0.32mm x 30m
20150617A_004.rst	06/17/2015	18:17:00	AR16601A1	28333	GC20A	RTXCLP 0.32mm x 30m
20150617A_005.rst	06/17/2015	18:33:12	AR16602A1	28334	GC20A	RTXCLP 0.32mm x 30m
20150617A_006.rst	06/17/2015	18:49:26	AR16603A1	28335	GC20A	RTXCLP 0.32mm x 30m
20150617A_007.rst	06/17/2015	19:05:50	AR16604A1	28336	GC20A	RTXCLP 0.32mm x 30m
20150617A_008.rst	06/17/2015	19:22:16	AR16605A1	28337	GC20A	RTXCLP 0.32mm x 30m
20150617A_009.rst	06/17/2015	19:38:26	AR12213A1	28340	GC20A	RTXCLP 0.32mm x 30m
20150617A_010.rst	06/17/2015	19:54:38	AR12323A1	28346	GC20A	RTXCLP 0.32mm x 30m
20150617A_011.rst	06/17/2015	20:10:46	AR12423A1	28351	GC20A	RTXCLP 0.32mm x 30m
20150617A_012.rst	06/17/2015	20:26:58	AR12483A1	28356	GC20A	RTXCLP 0.32mm x 30m
20150617A_013.rst	06/17/2015	20:43:18	AR12543A1	28361	GC20A	RTXCLP 0.32mm x 30m
20150617A_014.rst	06/17/2015	20:59:28	AR12623A1	28366	GC20A	RTXCLP 0.32mm x 30m
20150617A_015.rst	06/17/2015	21:15:50	AR12683A1	28371	GC20A	RTXCLP 0.32mm x 30m
20150617A_016.rst	06/17/2015	21:32:12	AIBLKB1	28316	GC20A	RTXCLP 0.32mm x 30m
20150617A_017.rst	06/17/2015	21:48:19	AR16603B1	28335	GC20A	RTXCLP 0.32mm x 30m
20150617A_018.rst	06/17/2015	22:04:30	GPC60619	GPCBLK1	GC20A	RTXCLP 0.32mm x 30m
20150617A_019.rst	06/17/2015	22:20:33	450688	ABLKS1	GC20A	RTXCLP 0.32mm x 30m
20150617A_020.rst	06/17/2015	22:36:55	450690	ALCSS1	GC20A	RTXCLP 0.32mm x 30m
20150617A_021.rst	06/17/2015	22:53:01	1515380001	F9M15	GC20A	RTXCLP 0.32mm x 30m
20150617A_022.rst	06/17/2015	23:09:10	1515380002	F9M15MS	GC20A	RTXCLP 0.32mm x 30m
20150617A_023.rst	06/17/2015	23:25:30	1515380003	F9M15MSD	GC20A	RTXCLP 0.32mm x 30m
20150617A_024.rst	06/17/2015	23:41:41	1515380004	F9M20	GC20A	RTXCLP 0.32mm x 30m
20150617A_025.rst	06/17/2015	23:58:00	1515618001	F9M69	GC20A	RTXCLP 0.32mm x 30m
20150617A_026.rst	06/18/2015	00:14:08	1515618002	F9M70	GC20A	RTXCLP 0.32mm x 30m
20150617A_027.rst	06/18/2015	00:30:15	1515618003	F9M71	GC20A	RTXCLP 0.32mm x 30m
20150617A_028.rst	06/18/2015	00:46:28	1515618004	F9M72	GC20A	RTXCLP 0.32mm x 30m
20150617A_029.rst	06/18/2015	01:02:46	1515618005	F9M73	GC20A	RTXCLP 0.32mm x 30m
20150617A_030.rst	06/18/2015	01:18:52	1515618006	F9M74	GC20A	RTXCLP 0.32mm x 30m
20150617A_031.rst	06/18/2015	01:34:56	1515618007	F9M75	GC20A	RTXCLP 0.32mm x 30m
20150617A_032.rst	06/18/2015	01:51:06	1515618008	F9M76	GC20A	RTXCLP 0.32mm x 30m
20150617A_033.rst	06/18/2015	02:07:10	1515618009	F9M77	GC20A	RTXCLP 0.32mm x 30m
20150617A_034.rst	06/18/2015	02:23:17	1515618010	F9M78	GC20A	RTXCLP 0.32mm x 30m
20150617A_035.rst	06/18/2015	02:39:22	1515618011	F9M79	GC20A	RTXCLP 0.32mm x 30m
20150617A_036.rst	06/18/2015	02:55:28	GPC60614	GPCBLK1	GC20A	RTXCLP 0.32mm x 30m
20150617A_037.rst	06/18/2015	03:11:46	451343	ABLKS1	GC20A	RTXCLP 0.32mm x 30m
20150617A_038.rst	06/18/2015	03:28:10	451345	ALCSS1	GC20A	RTXCLP 0.32mm x 30m
20150617A_039.rst	06/18/2015	03:44:16	1515725001	F9K00	GC20A	RTXCLP 0.32mm x 30m
20150617A_040.rst	06/18/2015	04:00:36	1515725002	F9M82	GC20A	RTXCLP 0.32mm x 30m
20150617A_041.rst	06/18/2015	04:16:36	1515725003	F9M83	GC20A	RTXCLP 0.32mm x 30m
20150617A_042.rst	06/18/2015	04:32:42	1515725004	F9M84	GC20A	RTXCLP 0.32mm x 30m
20150617A_043.rst	06/18/2015	04:48:58	1515725005	F9M85	GC20A	RTXCLP 0.32mm x 30m
20150617A_044.rst	06/18/2015	05:05:04	1515725006	F9M86	GC20A	RTXCLP 0.32mm x 30m
20150617A_045.rst	06/18/2015	05:21:20	1515725007	F9M87	GC20A	RTXCLP 0.32mm x 30m
20150617A_046.rst	06/18/2015	05:37:24	1515725008	F9M88	GC20A	RTXCLP 0.32mm x 30m
20150617A_047.rst	06/18/2015	05:53:28	1515725009	F9M89	GC20A	RTXCLP 0.32mm x 30m
20150617A_048.rst	06/18/2015	06:09:34	1515725010	F9M90	GC20A	RTXCLP 0.32mm x 30m
20150617A_049.rst	06/18/2015	06:25:34	1515725011	F9M91	GC20A	RTXCLP 0.32mm x 30m
20150617A_050.rst	06/18/2015	06:41:36	1515725012	F9M91MS	GC20A	RTXCLP 0.32mm x 30m
20150617A_051.rst	06/18/2015	06:57:38	1515725013	F9M91MSD	GC20A	RTXCLP 0.32mm x 30m
20150617A_052.rst	06/18/2015	07:13:58	1515725014	F9M92	GC20A	RTXCLP 0.32mm x 30m
20150617A_053.rst	06/18/2015	07:29:58	1515725015	F9M93	GC20A	RTXCLP 0.32mm x 30m
20150617A_054.rst	06/18/2015	07:46:16	1515725016	F9M94	GC20A	RTXCLP 0.32mm x 30m
20150617A_055.rst	06/18/2015	08:02:18	1515725017	F9M95	GC20A	RTXCLP 0.32mm x 30m
20150617A_056.rst	06/18/2015	08:18:25	1515725018	F9M96	GC20A	RTXCLP 0.32mm x 30m
20150617A_057.rst	06/18/2015	08:34:32	1515725019	F9M97	GC20A	RTXCLP 0.32mm x 30m
20150617A_058.rst	06/18/2015	08:50:42	1515725020	F9M98	GC20A	RTXCLP 0.32mm x 30m
20150617A_059.rst	06/18/2015	09:07:02	1515725021	F9M99	GC20A	RTXCLP 0.32mm x 30m
20150617A_060.rst	06/18/2015	09:23:14	AIBLKC1	28316	GC20A	RTXCLP 0.32mm x 30m
20150617A_061.rst	06/18/2015	09:39:23	AR16603C1	28335	GC20A	RTXCLP 0.32mm x 30m
20150617A_062.rst	06/18/2015	09:55:35		RINSE	GC20A	RTXCLP 0.32mm x 30m

GC/ECD ARO INJECTION LOG

File Name	Date Inject	Time Inject	Sample Name	Other ID	Instr ID	Column ID
20150617B_001.rst	06/17/2015	17:44:04	PRIME		GC20B	RTXCLP2 0.32mm x 30m
20150617B_002.rst	06/17/2015	18:00:26	PRIME		GC20B	RTXCLP2 0.32mm x 30m
20150617B_003.rst	06/17/2015	18:17:00	PRIME		GC20B	RTXCLP2 0.32mm x 30m
20150617B_004.rst	06/17/2015	18:33:12	AR16601A2	28333	GC20B	RTXCLP2 0.32mm x 30m
20150617B_005.rst	06/17/2015	18:49:26	AR16602A2	28334	GC20B	RTXCLP2 0.32mm x 30m
20150617B_006.rst	06/17/2015	19:05:50	AR16603A2	28335	GC20B	RTXCLP2 0.32mm x 30m
20150617B_007.rst	06/17/2015	19:22:16	AR16604A2	28336	GC20B	RTXCLP2 0.32mm x 30m
20150617B_008.rst	06/17/2015	19:38:26	AR16605A2	28337	GC20B	RTXCLP2 0.32mm x 30m
20150617B_009.rst	06/17/2015	19:54:38	AR12213A2	28340	GC20B	RTXCLP2 0.32mm x 30m
20150617B_010.rst	06/17/2015	20:10:46	AR12323A2	28346	GC20B	RTXCLP2 0.32mm x 30m
20150617B_011.rst	06/17/2015	20:26:58	AR12423A2	28351	GC20B	RTXCLP2 0.32mm x 30m
20150617B_012.rst	06/17/2015	20:43:18	AR12483A2	28356	GC20B	RTXCLP2 0.32mm x 30m
20150617B_013.rst	06/17/2015	20:59:28	AR12543A2	28361	GC20B	RTXCLP2 0.32mm x 30m
20150617B_014.rst	06/17/2015	21:15:50	AR12623A2	28366	GC20B	RTXCLP2 0.32mm x 30m
20150617B_015.rst	06/17/2015	21:32:12	AR12683A2	28371	GC20B	RTXCLP2 0.32mm x 30m
20150617B_016.rst	06/17/2015	21:48:19	AIBLKB2	28316	GC20B	RTXCLP2 0.32mm x 30m
20150617B_017.rst	06/17/2015	22:04:30	AR16603B2	28335	GC20B	RTXCLP2 0.32mm x 30m
20150617B_018.rst	06/17/2015	22:20:33	GPC60619	GPCBLK1	GC20B	RTXCLP2 0.32mm x 30m
20150617B_019.rst	06/17/2015	22:36:55	450688	ABLKS1	GC20B	RTXCLP2 0.32mm x 30m
20150617B_020.rst	06/17/2015	22:53:01	450690	ALCSS1	GC20B	RTXCLP2 0.32mm x 30m
20150617B_021.rst	06/17/2015	23:09:10	1515380001	F9M15	GC20B	RTXCLP2 0.32mm x 30m
20150617B_022.rst	06/17/2015	23:25:30	1515380002	F9M15MS	GC20B	RTXCLP2 0.32mm x 30m
20150617B_023.rst	06/17/2015	23:41:41	1515380003	F9M15MSD	GC20B	RTXCLP2 0.32mm x 30m
20150617B_024.rst	06/17/2015	23:58:00	1515380004	F9M20	GC20B	RTXCLP2 0.32mm x 30m
20150617B_025.rst	06/18/2015	00:14:08	1515618001	F9M69	GC20B	RTXCLP2 0.32mm x 30m
20150617B_026.rst	06/18/2015	00:30:15	1515618002	F9M70	GC20B	RTXCLP2 0.32mm x 30m
20150617B_027.rst	06/18/2015	00:46:28	1515618003	F9M71	GC20B	RTXCLP2 0.32mm x 30m
20150617B_028.rst	06/18/2015	01:02:46	1515618004	F9M72	GC20B	RTXCLP2 0.32mm x 30m
20150617B_029.rst	06/18/2015	01:18:52	1515618005	F9M73	GC20B	RTXCLP2 0.32mm x 30m
20150617B_030.rst	06/18/2015	01:34:56	1515618006	F9M74	GC20B	RTXCLP2 0.32mm x 30m
20150617B_031.rst	06/18/2015	01:51:06	1515618007	F9M75	GC20B	RTXCLP2 0.32mm x 30m
20150617B_032.rst	06/18/2015	02:07:10	1515618008	F9M76	GC20B	RTXCLP2 0.32mm x 30m
20150617B_033.rst	06/18/2015	02:23:17	1515618009	F9M77	GC20B	RTXCLP2 0.32mm x 30m
20150617B_034.rst	06/18/2015	02:39:22	1515618010	F9M78	GC20B	RTXCLP2 0.32mm x 30m
20150617B_035.rst	06/18/2015	02:55:28	1515618011	F9M79	GC20B	RTXCLP2 0.32mm x 30m
20150617B_036.rst	06/18/2015	03:11:46	GPC60614	GPCBLK1	GC20B	RTXCLP2 0.32mm x 30m
20150617B_037.rst	06/18/2015	03:28:10	451343	ABLKS1	GC20B	RTXCLP2 0.32mm x 30m
20150617B_038.rst	06/18/2015	03:44:16	451345	ALCSS1	GC20B	RTXCLP2 0.32mm x 30m
20150617B_039.rst	06/18/2015	04:00:36	1515725001	F9K00	GC20B	RTXCLP2 0.32mm x 30m
20150617B_040.rst	06/18/2015	04:16:36	1515725002	F9M82	GC20B	RTXCLP2 0.32mm x 30m
20150617B_041.rst	06/18/2015	04:32:42	1515725003	F9M83	GC20B	RTXCLP2 0.32mm x 30m
20150617B_042.rst	06/18/2015	04:48:58	1515725004	F9M84	GC20B	RTXCLP2 0.32mm x 30m
20150617B_043.rst	06/18/2015	05:05:04	1515725005	F9M85	GC20B	RTXCLP2 0.32mm x 30m
20150617B_044.rst	06/18/2015	05:21:20	1515725006	F9M86	GC20B	RTXCLP2 0.32mm x 30m
20150617B_045.rst	06/18/2015	05:37:24	1515725007	F9M87	GC20B	RTXCLP2 0.32mm x 30m
20150617B_046.rst	06/18/2015	05:53:28	1515725008	F9M88	GC20B	RTXCLP2 0.32mm x 30m
20150617B_047.rst	06/18/2015	06:09:34	1515725009	F9M89	GC20B	RTXCLP2 0.32mm x 30m
20150617B_048.rst	06/18/2015	06:25:34	1515725010	F9M90	GC20B	RTXCLP2 0.32mm x 30m
20150617B_049.rst	06/18/2015	06:41:36	1515725011	F9M91	GC20B	RTXCLP2 0.32mm x 30m
20150617B_050.rst	06/18/2015	06:57:38	1515725012	F9M91MS	GC20B	RTXCLP2 0.32mm x 30m
20150617B_051.rst	06/18/2015	07:13:58	1515725013	F9M91MSD	GC20B	RTXCLP2 0.32mm x 30m
20150617B_052.rst	06/18/2015	07:29:58	1515725014	F9M92	GC20B	RTXCLP2 0.32mm x 30m
20150617B_053.rst	06/18/2015	07:46:16	1515725015	F9M93	GC20B	RTXCLP2 0.32mm x 30m
20150617B_054.rst	06/18/2015	08:02:18	1515725016	F9M94	GC20B	RTXCLP2 0.32mm x 30m
20150617B_055.rst	06/18/2015	08:18:25	1515725017	F9M95	GC20B	RTXCLP2 0.32mm x 30m
20150617B_056.rst	06/18/2015	08:34:32	1515725018	F9M96	GC20B	RTXCLP2 0.32mm x 30m
20150617B_057.rst	06/18/2015	08:50:42	1515725019	F9M97	GC20B	RTXCLP2 0.32mm x 30m
20150617B_058.rst	06/18/2015	09:07:02	1515725020	F9M98	GC20B	RTXCLP2 0.32mm x 30m
20150617B_059.rst	06/18/2015	09:23:14	1515725021	F9M99	GC20B	RTXCLP2 0.32mm x 30m
20150617B_060.rst	06/18/2015	09:39:23	AIBLKC2	28316	GC20B	RTXCLP2 0.32mm x 30m
20150617B_061.rst	06/18/2015	09:55:35	AR16603C2	28335	GC20B	RTXCLP2 0.32mm x 30m

Batch Worklist

Batch: ENVX/ 21798 Created: 6/12/2015 08:48 Instrument: HBN: 150431

Rule: Sonication Extrcn, Pest/Aclr Analyst: P. Tran Status: NA

Workorder: 1515725 SDG: F9K00 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	451343	MB for HBN 150431 [ENVX/21798]		5 mL		MB	4		SNCTNPA.4P	6195	6/22/2015	6/6/2015	
2	451344	LCS-P for HBN 150431 [ENVX/217				LCS-P	4		SNCTNPA.4P	6195	6/22/2015	6/6/2015	
3	451345	LCS-A for HBN 150431 [ENVX/217				LCS-A	4		SNCTNPA.4P	6195	6/22/2015	6/6/2015	
4	1515725001	F9K00				SAMPLE	4	1515725001-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
5	1515725002	F9M82				SAMPLE	4	1515725002-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
6	1515725003	F9M83				SAMPLE	4	1515725003-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
7	1515725004	F9M84				SAMPLE	4	1515725004-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
8	1515725005	F9M85				SAMPLE	4	1515725005-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
9	1515725006	F9M86				SAMPLE	4	1515725006-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
10	1515725007	F9M87				SAMPLE	4	1515725007-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
11	1515725008	F9M88				SAMPLE	4	1515725008-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
12	1515725009	F9M89				SAMPLE	4	1515725009-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
13	1515725010	F9M90				SAMPLE	4	1515725010-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
14	1515725011	F9M91				SAMPLE	4	1515725011-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
15	1515725012	F9M91MS				MS	4	1515725012-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
16	1515725013	F9M91MSD				MSD	4	1515725013-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
17	1515725014	F9M92				SAMPLE	4	1515725014-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
18	1515725015	F9M93				SAMPLE	4	1515725015-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
19	1515725016	F9M94				SAMPLE	4	1515725016-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
20	1515725017	F9M95				SAMPLE	4	1515725017-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
21	1515725018	F9M96				SAMPLE	4	1515725018-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
22	1515725019	F9M97				SAMPLE	4	1515725019-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
23	1515725020	F9M98				SAMPLE	4	1515725020-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	
24	1515725021	F9M99				SAMPLE	4	1515725021-A	SNCTNPA.4P	5936	6/15/2015	6/6/2015	

mgL

some BSD

Batch Worklist

Batch: ENVX/ 21814 Created: 6/16/2015 09:18 Instrument: GPC06 HBN: 150592

Rule: GPC Pest/Aro Analyst: L. Edwards Status: NA

Workorder: 1515725 SDG: F9K00 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	451806	GB for HBN 150592 [ENVX/21814]				GB	4		E.GPC.PA.P	6158		6/12/2015	6/14/2015
2	451343	MB for HBN 150431 [ENVX/21798]	30 grams	5 mL		MB	4		E.GPC.PA.P	6195		6/12/2015	6/14/2015
3	451344	LCS-P for HBN 150431 [ENVX/217	30 grams	5 mL		LCS-P	4		E.GPC.PA.P	6195		6/12/2015	6/14/2015
4	451345	LCS-A for HBN 150431 [ENVX/217	30 grams	5 mL		LCS-A	4		E.GPC.PA.P	6195		6/12/2015	6/14/2015
5	1515725001	F9K00	30.35 grams	5 mL		SAMPLE	4	1515725001-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
6	1515725002	F9M82	30.23 grams	5 mL		SAMPLE	4	1515725002-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
7	1515725003	F9M83	30.49 grams	5 mL		SAMPLE	4	1515725003-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
8	1515725004	F9M84	30.25 grams	5 mL		SAMPLE	4	1515725004-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
9	1515725005	F9M85	30.05 grams	5 mL		SAMPLE	4	1515725005-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
10	1515725006	F9M86	30.42 grams	5 mL		SAMPLE	4	1515725006-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
11	1515725007	F9M87	30.34 grams	5 mL		SAMPLE	4	1515725007-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
12	1515725008	F9M88	30.22 grams	5 mL		SAMPLE	4	1515725008-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
13	1515725009	F9M89	30.3 grams	5 mL		SAMPLE	4	1515725009-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
14	1515725010	F9M90	30.23 grams	5 mL		SAMPLE	4	1515725010-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
15	1515725011	F9M91	30.06 grams	5 mL		SAMPLE	4	1515725011-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
16	1515725012	F9M91MS	30.3 grams	5 mL		MS	4	1515725012-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
17	1515725013	F9M91MSD	30.47 grams	5 mL		MSD	4	1515725013-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
18	1515725014	F9M92	30.01 grams	5 mL		SAMPLE	4	1515725014-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
19	1515725015	F9M93	30.43 grams	5 mL		SAMPLE	4	1515725015-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
20	1515725016	F9M94	30.05 grams	5 mL		SAMPLE	4	1515725016-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
21	1515725017	F9M95	30.18 grams	5 mL		SAMPLE	4	1515725017-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
22	1515725018	F9M96	30.18 grams	5 mL		SAMPLE	4	1515725018-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
23	1515725019	F9M97	30.4 grams	5 mL		SAMPLE	4	1515725019-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
24	1515725020	F9M98	30.03 grams	5 mL		SAMPLE	4	1515725020-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015
25	1515725021	F9M99	30.35 grams	5 mL		SAMPLE	4	1515725021-A	E.GPC.PA.P	5936		6/12/2015	6/14/2015

ALS Laboratory Group GPC Injection Logbook

Method:	**SOM01.2**	**Analytical Method**	**Pest/ARO**	**Work Order ID:**	**1515725**	**Horizon Batch ID:**	**150592**
Account:	**08201**	**Instrument ID:**	**GPC06**	**Column ID:**	**8181346-1 690492-1**	**Flow Rate:**	**5mL/min.**
Load Date:	**6/14/15**	**Load Time:**	**15:02**	**Pressure (PSI)**	**159**	**PST/ARO Weekly ID:**	**6/10/15**

Position	ALS Sample ID	Client Sample ID	Sample Notes/Comments
1	451806	GPC06 Blank	
2	451343	MB for HBN 150431	
3	451344	LCS-P for HBN 150431	
4	451345	LCS-A for HBN 150431	
5	1515725001	F9K00	
6	1515725002	F9M82	
7	1515725003	F9M83	
8	1515725004	F9M84	
9	1515725005	F9M85	
10	1515725006	F9M86	
11	1515725007	F9M87	
12	1515725008	F9M88	
13	1515725009	F9M89	
14	1515725010	F9M90	
15	1515725011	F9M91	
16	1515725012	F9M91MS	
17	1515725013	F9M91MSD	
18	1515725012	F9M91MS	
19	1515725013	F9M91MSD	
20	1515725014	F9M92	
21	1515725015	F9M93	
22	1515725016	F9M94	
23	1515725017	F9M95	
24	1515725018	F9M96	
25	1515725019	F9M97	
26	1515725020	F9M98	
27	1515725021	F9M99	
28	Rinse		Column Wash

$MeCl_2$ Lot:	**97623**	**General Comments:**
Dump Time (min.):	**18.7**	if noted above - 1:10 dilutions made to protect GPC column
Collect Time (min.):	**29.5**	Analyst - Lyle Edwards
Wash Time(min.):	**10**	
GPC Standard ID:	**195WS38822**	

ORGANIC EXTRACTION LOGBOOK ALS GROUP USA, Corp

Client U.S. EPA Region 6 Case/SDG # 45316 / F9K00 Horizon Extraction HBN 150431

Work Order# 1515725 Sample #'s 1-21 Extraction Method SOMO 1.2

SOP: OE - ED-SOM Analytical Fraction ARO Matrix SOIL

Date samples weighed out 6/12/15 by Peter Tran balance # 120212065

See extraction batch sheet for sample weights/volumes, initial pH's (waters), and final concentration volumes.

Extraction: Date/Time 6/12/15 1530 Stop Date/Time (CLLE's/Soxlet) ——— Extracted by pT

	Drying Agent	Salt	Solvents		Exchange Solvent
Solvent/Reagent used	☑ Na_2SO_4 ☐ N/A	☐ NaCl ☐ N/A	☐ CH_2Cl_2 ☐ Hexane ☐ Acetonitrile ☐ Hexane/Ether ( )	☑ CH_2Cl_2/Acetone (1:1)	☑ Hexane ☐ Toluene ☐ N/A ☐ CH_2Cl_2
Vendor	JT Baker		JT Baker	B.J	B [illegible]
Lot Number	1898		98930	DM245	DM196
Amount	per SOP		per SOP	per SOP	[illegible]

	Surrogate/DMC STD	LCS Standard	MS/MSD Standard	RLVS Standard
Standard ID	26390	26434	26435	
Spiked Amount	1mL	1mL	1mL	
Spiked By	pT	pT	pT	

	Acid Solution	Base Solution		
Standard ID				
Spiked Amount *				
pH Adjustment *				
Spiked By				

* exceptions are noted in comments below

Comments

Pre-GPC Concentration: Date/Time 6/12/15 15:50 by [illegible] Comments The Temp was 67°C

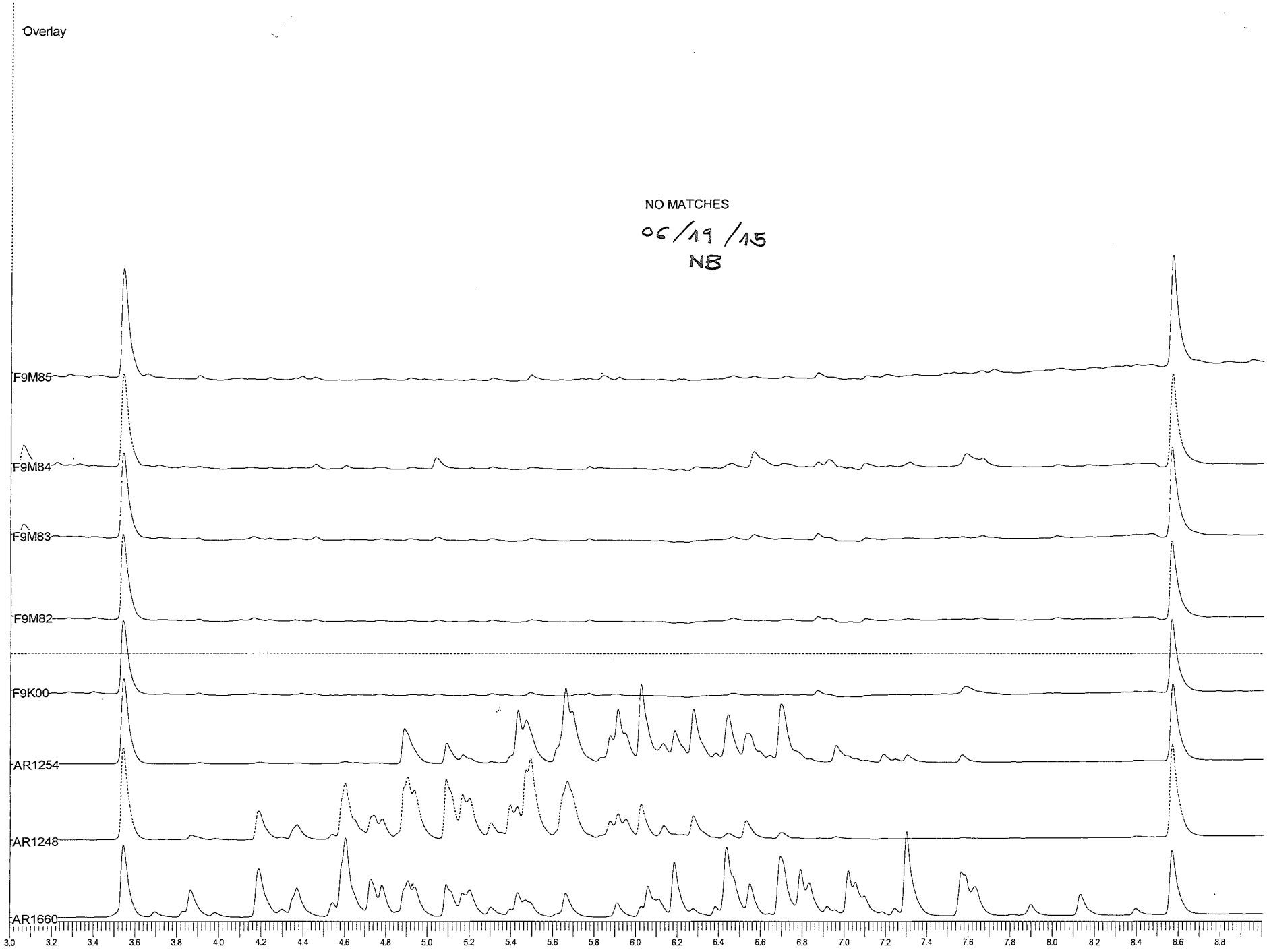
Final Concentration: Date/Time 6/15/15 13:00 by [illegible] Comments The Temp was 79°C

Florisil (pesticides only) Date/Time — by — Florisil Column Lot # —

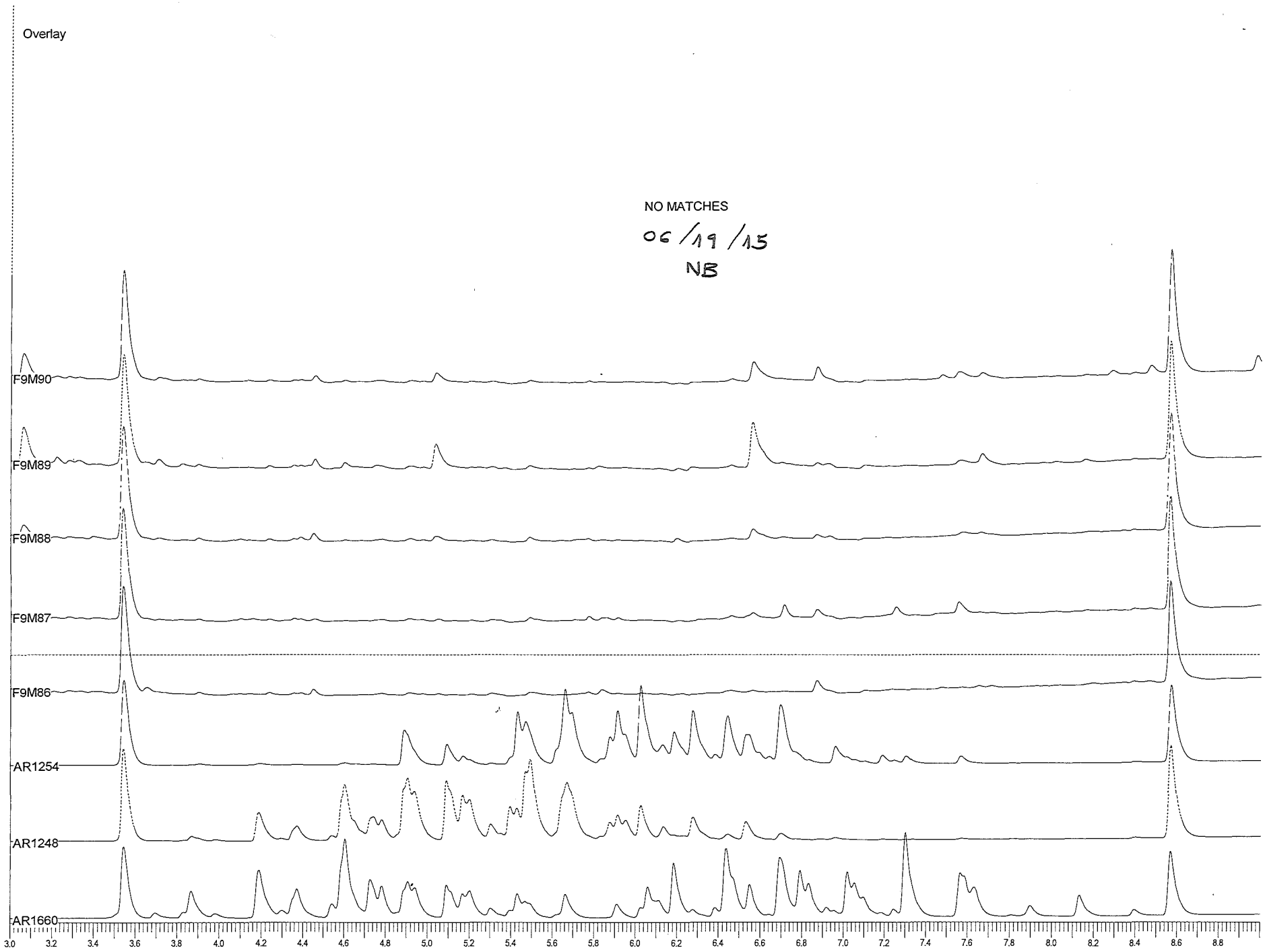
Comments

Checker Signature [signature] Date 6/16/15

Plot Title	Start Time	End Time	Scale	Offset
20150617A_043.raw Sample Name : 1515725005 Sample Number: 43 Instrument File Name: G:\gce20\20150617\20_som_acq_aros	3.00	9.00	200.00	-60.00
20150617A_040.raw Sample Name : 1515725002 Sample Number: 40 Instrument File Name: G:\gce20\20150617\20_som_acq_aros	3.00	9.00	200.00	-22.00
20150617A_006.raw Sample Name : AR16603A1 Sample Number: 06 Instrument File Name: G:\gce20\20150617\20_som_acq_aros	3.00	9.00	150.00	21.00
20150617A_042.raw Sample Name : 1515725004 Sample Number: 42 Instrument File Name: G:\gce20\20150617\20_som_acq_aros	3.00	9.00	200.00	-45.00
20150617A_039.raw Sample Name : 1515725001 Sample Number: 39 Instrument File Name: G:\gce20\20150617\20_som_acq_aros	3.00	9.00	200.00	-11.00
20150617A_013.raw Sample Name : AR12543A1 Sample Number: 13 Instrument File Name: G:\gce20\20150617\20_som_acq_aros	3.00	9.00	120.00	7.00
20150617A_041.raw Sample Name : 1515725003 Sample Number: 41 Instrument File Name: G:\gce20\20150617\20_som_acq_aros	3.00	9.00	200.00	-35.00
20150617A_012.raw Sample Name : AR12483A1 Sample Number: 12 Instrument File Name: G:\gce20\20150617\20_som_acq_aros	3.00	9.00	120.00	14.00


Overlay
NO MATCHES
06/19/15
NB
F9M85
F9M84
F9M83
F9M82
F9K00
AR1254
AR1248
AR1660
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0
6.2
6.4
6.6
6.8
7.0
7.2
7.4
7.6
7.8
8.0
8.2
8.4
8.6
8.8

Plot Title	Start Time	End Time	Scale	Offset
20150617A_048.raw Sample Name : 1515725010 Sample Number: 48 Instrument File Name: G:\gce20\20150617\20_som_acq_aros	3.00	9.00	200.00	-60.00
20150617A_045.raw Sample Name : 1515725007 Sample Number: 45 Instrument File Name: G:\gce20\20150617\20_som_acq_aros	3.00	9.00	200.00	-22.00
20150617A_006.raw Sample Name : AR16603A1 Sample Number: 06 Instrument File Name: G:\gce20\20150617\20_som_acq_aros	3.00	9.00	150.00	21.00
20150617A_047.raw Sample Name : 1515725009 Sample Number: 47 Instrument File Name: G:\gce20\20150617\20_som_acq_aros	3.00	9.00	200.00	-45.00
20150617A_044.raw Sample Name : 1515725006 Sample Number: 44 Instrument File Name: G:\gce20\20150617\20_som_acq_aros	3.00	9.00	200.00	-11.00
20150617A_013.raw Sample Name : AR12543A1 Sample Number: 13 Instrument File Name: G:\gce20\20150617\20_som_acq_aros	3.00	9.00	120.00	7.00
20150617A_046.raw Sample Name : 1515725008 Sample Number: 46 Instrument File Name: G:\gce20\20150617\20_som_acq_aros	3.00	9.00	200.00	-35.00
20150617A_012.raw Sample Name : AR12483A1 Sample Number: 12 Instrument File Name: G:\gce20\20150617\20_som_acq_aros	3.00	9.00	120.00	14.00


Overlay
NO MATCHES
06/19/15
NB
F9M90
F9M89
F9M88
F9M87
F9M86
AR1254
AR1248
AR1660
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
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5.6
5.8
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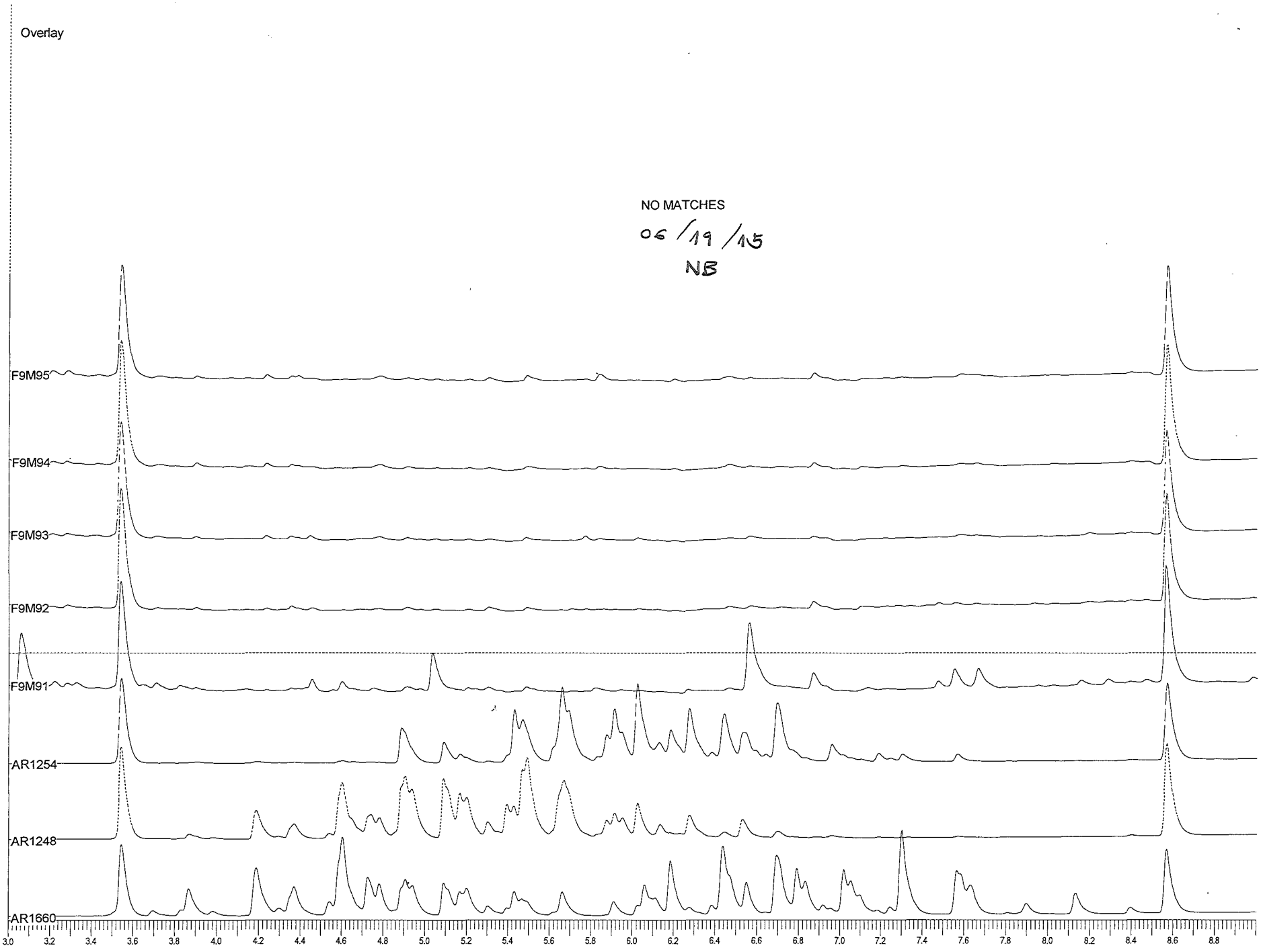
6.2
6.4
6.6
6.8
7.0
7.2
7.4
7.6
7.8
8.0
8.2
8.4
8.6
8.8

Plot Title		Start Time	End Time	Scale	Offset
20150617A_055.raw		3.00	9.00	200.00	-60.00
Sample Name :	1515725017				
Sample Number:	55				
Instrument File Name:	G:\gce20\20150617\20_som_acq_aros				
20150617A_052.raw		3.00	9.00	200.00	-25.00
Sample Name :	1515725014				
Sample Number:	52				
Instrument File Name:	G:\gce20\20150617\20_som_acq_aros				
20150617A_006.raw		3.00	9.00	150.00	21.00
Sample Name :	AR16603A1				
Sample Number:	06				
Instrument File Name:	G:\gce20\20150617\20_som_acq_aros				
20150617A_054.raw		3.00	9.00	200.00	-45.00
Sample Name :	1515725016				
Sample Number:	54				
Instrument File Name:	G:\gce20\20150617\20_som_acq_aros				
20150617A_049.raw		3.00	9.00	200.00	-11.00
Sample Name :	1515725011				
Sample Number:	49				
Instrument File Name:	G:\gce20\20150617\20_som_acq_aros				
20150617A_013.raw		3.00	9.00	120.00	7.00
Sample Name :	AR12543A1				
Sample Number:	13				
Instrument File Name:	G:\gce20\20150617\20_som_acq_aros				
20150617A_053.raw		3.00	9.00	200.00	-35.00
Sample Name :	1515725015				
Sample Number:	53				
Instrument File Name:	G:\gce20\20150617\20_som_acq_aros				
20150617A_012.raw		3.00	9.00	120.00	14.00
Sample Name :	AR12483A1				
Sample Number:	12				
Instrument File Name:	G:\gce20\20150617\20_som_acq_aros				


Overlay
NO MATCHES
06/19/15
NB
F9M95
F9M94
F9M93
F9M92
F9M91
AR1254
AR1248
AR1660
3.0
3.2
3.4
3.6
3.8
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4.2
4.4
4.6
4.8
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5.2
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5.8
6.0
6.2
6.4
6.6
6.8
7.0
7.2
7.4
7.6
7.8
8.0
8.2
8.4
8.6
8.8

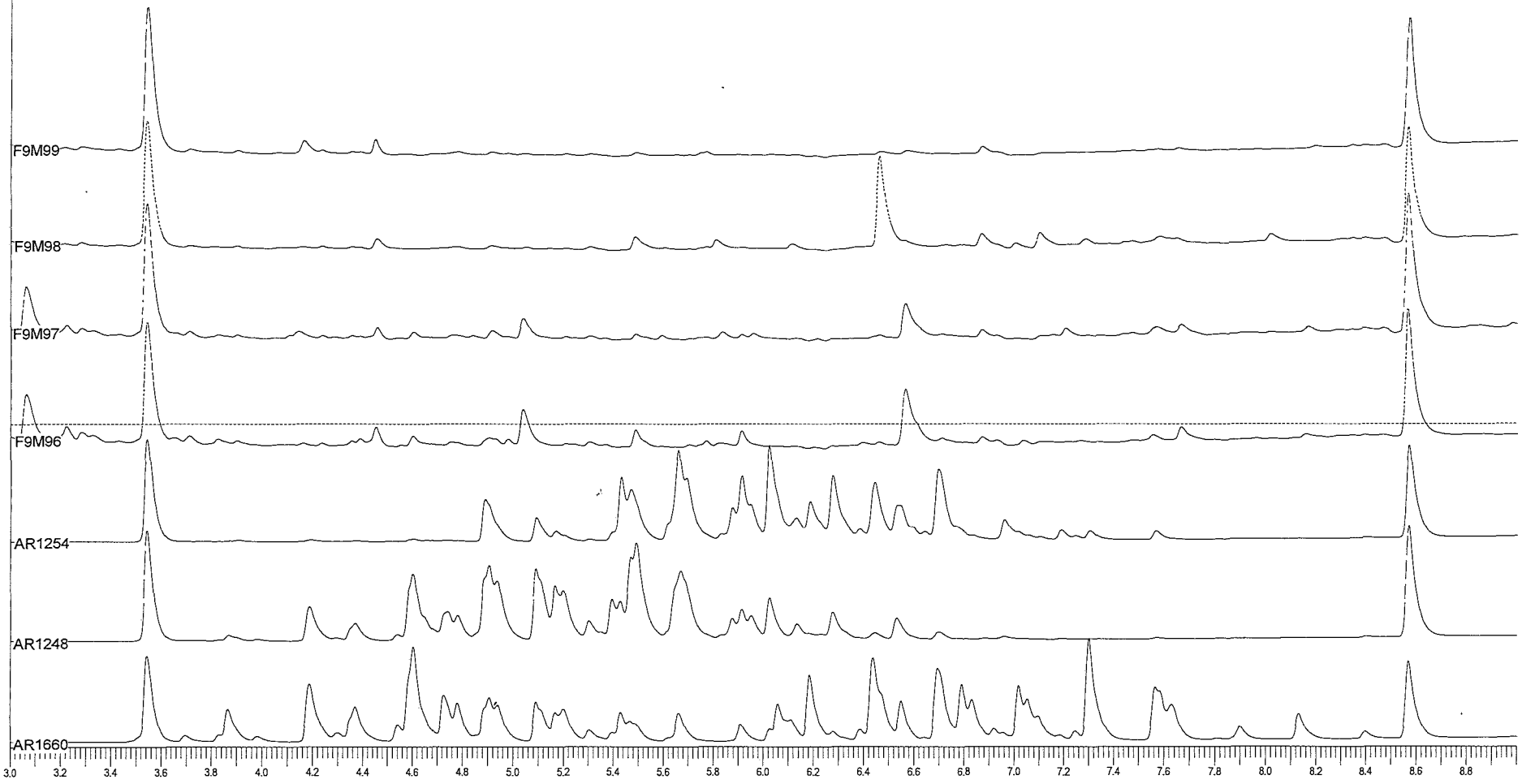
Plot Title	Start Time	End Time	Scale	Offset
20150617A_059.raw Sample Name : 1515725021 Sample Number: 59 Instrument File Name: G:\gce20\20150617\20_som_acq_aros	3.00	9.00	200.00	-45.00
20150617A_057.raw Sample Name : 1515725019 Sample Number: 57 Instrument File Name: G:\gce20\20150617\20_som_acq_aros	3.00	9.00	200.00	-25.00
20150617A_013.raw Sample Name : AR12543A1 Sample Number: 13 Instrument File Name: G:\gce20\20150617\20_som_acq_aros	3.00	9.00	120.00	7.00
20150617A_006.raw Sample Name : AR16603A1 Sample Number: 06 Instrument File Name: G:\gce20\20150617\20_som_acq_aros	3.00	9.00	150.00	21.00
20150617A_058.raw Sample Name : 1515725020 Sample Number: 58 Instrument File Name: G:\gce20\20150617\20_som_acq_aros	3.00	9.00	200.00	-35.00
20150617A_056.raw Sample Name : 1515725018 Sample Number: 56 Instrument File Name: G:\gce20\20150617\20_som_acq_aros	3.00	9.00	200.00	-11.00
20150617A_012.raw Sample Name : AR12483A1 Sample Number: 12 Instrument File Name: G:\gce20\20150617\20_som_acq_aros	3.00	9.00	120.00	14.00

ES&T

Overlay

NO MATCHES

06/19/15
NB



EXHIBIT

STANDARD REPORT

Working Standard - PSTCLP SURR

PSTCLP SURR — Description - PSTCLP TCX/DCB 10/20 INT

Standard:	28303	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	INT	**Lab Lot:**	EGC150612001	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	10 ug/mL
2	2051-24-3	Decachlorobiphenyl	20 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21715	PST CLP SURR	PSTCLP SURR STOCK	A098794	5 mL	01/31/2020
28300	Hexanes	Hexanes DI907	DL907	45 mL	06/11/2025

STANDARD REPORT

Working Standard - PSTCLP IBLK

PSTCLP IBLK — **Description - PSTCLP IBLK 0.02/0.04**

Standard:	28316	**Created By:**	S. Sagers	**Amount:**	500 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612014	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
2	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	499 mL	06/11/2025
28303	PSTCLP SURR	PSTCLP TCX/DCB 10/20 INT	EGC150612001	1 mL	12/12/2015

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STANDARD REPORT

Working Standard - PSTCLP SUR

PSTCLP SUR — Description: PSTCLP 2,2 SURR SPIKE 0.2/0.4

Standard:	28319	**Created By:**	S. Sagers	**Amount:**	1000 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	01/31/2020
MFG Lot:	SPIKE	**Lab Lot:**	EGC150612017	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	0.2 ug/mL
2	2051-24-3	Decachlorobiphenyl	0.4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21715	PST CLP SURR	PSTCLP SURR STOCK	A098794	2 mL	01/31/2020
28301	Acetone	Acetone DL683	DL683	998 mL	06/11/2025

STANDARD REPORT

Working Standard - PSTCLP SUR

PSTCLP SUR	Description - PSTCLP 1,2 SURR SPIKE 0.6/0.12

Standard:	28323	**Created By:**	S. Sagers	**Amount:**	1000 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	01/31/2020
MFG Lot:	SPIKE	**Lab Lot:**	EGC150612021	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	0.6 ug/mL
2	2051-24-3	Decachlorobiphenyl	1.2 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21715	PST CLP SURR	PSTCLP SURR STOCK	A098794	6 mL	01/31/2020
28301	Acetone	Acetone DL683	DL683	994 mL	06/11/2025

STANDARD REPORT

Working Standard - AROCLP SURR

AROCLP SURR		Description - AROCLP SURR 50/100 INT
Standard: 28324	**Created By:** S. Sagers	**Amount:** 10 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: INT	**Lab Lot:** EGC150612001	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	50 ug/mL
2	2051-24-3	Decachlorobiphenyl	100 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21715	PST CLP SURR	PSTCLP SURR STOCK	A098794	5 mL	01/31/2020
28300	Hexanes	Hexanes DI907	DL907	5 mL	06/11/2025

STANDARD REPORT

Working Standard - AROCLP 1660

AROCLP 1660 — **Description - AROCLP 1660 2/4/40 INT**

Standard: 28325	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: INT	**Lab Lot:** EGC150612002	**Usable:** Yes
Part ID:		

Pos	Analyte	Name	Concentration
1	12674-11-2	Aroclor 1016	40 ug/mL
2	11096-82-5	Aroclor 1260	40 ug/mL
3	877-09-8	Tetrachloro-m-xylene	2 ug/mL
4	2051-24-3	Decachlorobiphenyl	4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21543	AR1660	AR1660 1000 PPM	CJ-3291	2 mL	09/30/2016
28300	Hexanes	Hexanes DI907	DL907	46 mL	06/11/2025
28324	AROCLP SURR	AROCLP SURR 50/100 INT	EGC150612001	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 1221

AROCLP 1221 — **Description - AROCLP 1221 2/4/40 INT**

Standard:	28326	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	INT	**Lab Lot:**	EGC150612003	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	11104-28-2	Aroclor 1221	40.04 ug/mL
2	877-09-8	Tetrachloro-m-xylene	2 ug/mL
3	2051-24-3	Decachlorobiphenyl	4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
3518	AR1221	AR1221 1000 PPM	B6010245	2 mL	01/23/2016
28300	Hexanes	Hexanes DI907	DL907	46 mL	06/11/2025
28324	AROCLP SURR	AROCLP SURR 50/100 INT	EGC150612001	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 1232

AROCLP1232		Description - AROCLP 1232 2/4/40 INT
Standard: 28327	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: INT	**Lab Lot:** EGC150612004	**Usable:** Yes
Part ID:		

Pos	Analyte	Name	Concentration
1	11141-16-5	Aroclor 1232	40.08 ug/mL
2	877-09-8	Tetrachloro-m-xylene	2 ug/mL
3	2051-24-3	Decachlorobiphenyl	4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
3519	AR1232	AR1232 1000 PPM	B6010264	2 mL	01/24/2016
28300	Hexanes	Hexanes DI907	DL907	46 mL	06/11/2025
28324	AROCLP SURR	AROCLP SURR 50/100 INT	EGC150612001	2 mL	12/12/2015

: 91793

STANDARD REPORT

Working Standard - AROCLP 1242

AROCLP 1242 — **Description - AROCLP 1242 2/4/40 INT**

Standard:	28328	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	INT	**Lab Lot:**	EGC150612005	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	53469-21-9	Aroclor 1242	40 ug/mL
2	877-09-8	Tetrachloro-m-xylene	2 ug/mL
3	2051-24-3	Decachlorobiphenyl	4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21723	AR1242	AR1242 1000 PPM	213061664	2 mL	06/27/2023
28300	Hexanes	Hexanes DI907	DL907	46 mL	06/11/2025
28324	AROCLP SURR	AROCLP SURR 50/100 INT	EGC150612001	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 1248

AROCLP 1248 — **Description - AROCLP 1248 2/4/40 INT**

Standard:	28329	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	INT	**Lab Lot:**	EGC150612006	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	12672-29-6	Aroclor 1248	40 ug/mL
2	877-09-8	Tetrachloro-m-xylene	2 ug/mL
3	2051-24-3	Decachlorobiphenyl	4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
13484	AR1248	AR1248 1000 PPM	209111008	2 mL	11/02/2019
28300	Hexanes	Hexanes DI907	DL907	46 mL	06/11/2025
28324	AROCLP SURR	AROCLP SURR 50/100 INT	EGC150612001	2 mL	12/12/2015

01795

STANDARD REPORT

Working Standard - AROCLP 1254

AROCLP1254		Description - AROCLP 1254 2/4/40 INT
Standard: 28330	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: INT	**Lab Lot:** EGC150612007	**Usable:** Yes
Part ID:		

Pos	Analyte	Name	Concentration
1	11097-69-1	Aroclor 1254	40 ug/mL
2	877-09-8	Tetrachloro-m-xylene	2 ug/mL
3	2051-24-3	Decachlorobiphenyl	4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
13485	AR1254	AR1254 1000 PPM	210061347	2 mL	06/28/2020
28300	Hexanes	Hexanes DI907	DL907	46 mL	06/11/2025
28324	AROCLP SURR	AROCLP SURR 50/100 INT	EGC150612001	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 1262

AROCLP1262		Description - AROCLP 1262 2/4/40 INT
Standard: 28331	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: INT	**Lab Lot:** EGC150612008	**Usable:** Yes
Part ID:		

Pos	Analyte	Name	Concentration
1	37324-23-5	Aroclor 1262	40.24 ug/mL
2	877-09-8	Tetrachloro-m-xylene	2 ug/mL
3	2051-24-3	Decachlorobiphenyl	4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21724	AR1262	AR1262 1000 PPM	B6010227	2 mL	01/20/2016
28300	Hexanes	Hexanes DI907	DL907	46 mL	06/11/2025
28324	AROCLP SURR	AROCLP SURR 50/100 INT	EGC150612001	2 mL	12/12/2015

01707

STANDARD REPORT

Working Standard - AROCLP 1268

AROCLP 1268 — **Description:** AROCLP 1268 2/4/40 INT

Standard:	28332	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	INT	**Lab Lot:**	EGC150612009	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	11100-14-4	Aroclor 1268	40.08 ug/mL
2	877-09-8	Tetrachloro-m-xylene	2 ug/mL
3	2051-24-3	Decachlorobiphenyl	4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
15386	AR1268	AR1268 1000 PPM	209091091	2 mL	09/16/2019
28300	Hexanes	Hexanes DI907	DL907	46 mL	06/11/2025
28324	AROCLP SURR	AROCLP SURR 50/100 INT	EGC150612001	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 16601

AROCLP 16601		Description - AROCLP 16601 005/.01/.1
Standard: 28333	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612010	**Usable:** Yes
Part ID:		

Pos	Analyte	Name	Concentration
1	12674-11-2	Aroclor 1016	0.1 ug/mL
2	11096-82-5	Aroclor 1260	0.1 ug/mL
3	877-09-8	Tetrachloro-m-xylene	0.005 ug/mL
4	2051-24-3	Decachlorobiphenyl	0.01 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99.75 mL	06/11/2025
28325	AROCLP 1660	AROCLP 1660 2/4/40 INT	EGC150612002	0.25 mL	12/12/2015

01799

STANDARD REPORT

Working Standard - AROCLP 16602

AROCLP 16602 — Description - AROCLP 16602, 01/02/2

Standard: 28334	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612011	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	12674-11-2	Aroclor 1016	0.2 ug/mL
2	11096-82-5	Aroclor 1260	0.2 ug/mL
3	877-09-8	Tetrachloro-m-xylene	0.01 ug/mL
4	2051-24-3	Decachlorobiphenyl	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99.5 mL	06/11/2025
28325	AROCLP 1660	AROCLP 1660 2/4/40 INT	EGC150612002	0.5 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 16603

AROCLP16603 — Description - AROCLP 16603 02/04/4

Standard:	28335	**Created By:**	S. Sagers	**Amount:**	200 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612012	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	12674-11-2	Aroclor 1016	0.4 ug/mL
2	11096-82-5	Aroclor 1260	0.4 ug/mL
3	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
4	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	198 mL	06/11/2025
28325	AROCLP 1660	AROCLP 1660 2/4/40 INT	EGC150612002	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 16604

AROCLP 16604		Description: AROCLP 16604 04/08/8
Standard: 28336	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612013	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	12674-11-2	Aroclor 1016	0.8 ug/mL
2	11096-82-5	Aroclor 1260	0.8 ug/mL
3	877-09-8	Tetrachloro-m-xylene	0.04 ug/mL
4	2051-24-3	Decachlorobiphenyl	0.08 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	98 mL	06/11/2025
28325	AROCLP 1660	AROCLP 1660 2/4/40 INT	EGC150612002	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 16605

AROCLP 16605 — **Description - AROCLP 16605 08/16/16**

Standard: 28337	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612014	**Usable:** Yes
Part ID:		

Pos	Analyte	Name	Concentration
1	12674-11-2	Aroclor 1016	1.6 ug/mL
2	11096-82-5	Aroclor 1260	1.6 ug/mL
3	877-09-8	Tetrachloro-m-xylene	0.08 ug/mL
4	2051-24-3	Decachlorobiphenyl	0.16 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	96 mL	06/11/2025
28325	AROCLP 1660	AROCLP 1660 2/4/40 INT	EGC150612002	4 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12211

AROCLP 12211 — Description - AROCLP 12211 005/01/1

Standard:	28338	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612015	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	11104-28-2	Aroclor 1221	0.1001 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.005 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.01 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99.75 mL	06/11/2025
28326	AROCLP 1221	AROCLP 1221 2/4/40 INT	EGC150612003	0.25 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12212

AROCLP 12212		Description - AROCLP 12212 01/02/2
Standard: 28339	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612016	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11104-28-2	Aroclor 1221	0.2002 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.01 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	49.75 mL	06/11/2025
28326	AROCLP 1221	AROCLP 1221 2/4/40 INT	EGC150612003	0.25 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12213

AROCLP 12213		Description - AROCLP 12213 02/04/4
Standard: 28340	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612017	**Usable:** Yes
Part ID:		

Pos	Analyte	Name	Concentration
1	11104-28-2	Aroclor 1221	0.4004 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	49.5 mL	06/11/2025
28326	AROCLP 1221	AROCLP 1221 2/4/40 INT	EGC150612003	0.5 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12214

AROCLP 12214		Description - AROCLP 12214 .04/.08/.8
Standard: 28341	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612018	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11104-28-2	Aroclor 1221	0.8008 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.04 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.08 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	49 mL	06/11/2025
28326	AROCLP 1221	AROCLP 1221 2/4/40 INT	EGC150612003	1 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12215

AROCLP 12215		Description - AROCLP 12215 08/16/16
Standard: 28342	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612019	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11104-28-2	Aroclor 1221	1.6016 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.08 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.16 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	48 mL	06/11/2025
28326	AROCLP 1221	AROCLP 1221 2/4/40 INT	EGC150612003	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12321

AROCLP 12321 — **Description - AROCLP 12321 .005/.01/.1**

Standard: 28343	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612020	**Usable:** Yes
Part ID:		

Pos	Analyte	Name	Concentration
1	11141-16-5	Aroclor 1232	0.1002 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.005 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.01 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99.75 mL	06/11/2025
28327	AROCLP 1232	AROCLP 1232 2/4/40 INT	EGC150612004	0.25 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12322

AROCLP 12322		Description: AROCLP 12322 01/02/2
Standard: 28345	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612021	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11141-16-5	Aroclor 1232	0.2004 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.01 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	49.75 mL	06/11/2025
28327	AROCLP 1232	AROCLP 1232 2/4/40 INT	EGC150612004	0.25 mL	12/12/2015

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STANDARD REPORT

Working Standard - AROCLP 12323

AROCLP 12323		Description - AROCLP 12323 02/04/4
Standard: 28346	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612022	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11141-16-5	Aroclor 1232	0.4008 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	49.5 mL	06/11/2025
28327	AROCLP 1232	AROCLP 1232 2/4/40 INT	EGC150612004	0.5 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12324

AROCLP 12324 — **Description:** AROCLP 12324 04/08/8

Standard:	28347	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612023	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	11141-16-5	Aroclor 1232	0.8016 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.04 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.08 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	49 mL	06/11/2025
28327	AROCLP 1232	AROCLP 1232 2/4/40 INT	EGC150612004	1 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12325

AROCLP 12325 — **Description:** AROCLP 12325 08/16/16

Standard:	28348	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612024	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	11141-16-5	Aroclor 1232	1.6032 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.08 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.16 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	48 mL	06/11/2025
28327	AROCLP 1232	AROCLP 1232 2/4/40 INT	EGC150612004	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12421

AROCLP 12421		Description - AROCLP 12421 .005/.01/.1
Standard: 28349	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612025	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	53469-21-9	Aroclor 1242	0.1 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.005 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.01 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99.75 mL	06/11/2025
28328	AROCLP 1242	AROCLP 1242 2/4/40 INT	EGC150612005	0.25 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12422

AROCLP 12422 — **Description: AROCLP 12422 01/02/2**

Standard:	28350	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612026	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	53469-21-9	Aroclor 1242	0.2 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.01 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99.5 mL	06/11/2025
28328	AROCLP 1242	AROCLP 1242 2/4/40 INT	EGC150612005	0.5 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12423

AROCLP 12423 — **Description - AROCLP 12423, 02/04/4**

Standard:	28351	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612027	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	53469-21-9	Aroclor 1242	0.4 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99 mL	06/11/2025
28328	AROCLP 1242	AROCLP 1242 2/4/40 INT	EGC150612005	1 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12424

AROCLP 12424 — **Description - AROCLP 12424 04/08/8**

Standard:	28352	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612028	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	53469-21-9	Aroclor 1242	0.8 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.04 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.08 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	98 mL	06/11/2025
28328	AROCLP 1242	AROCLP 1242 2/4/40 INT	EGC150612005	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12425

AROCLP 12425 — **Description - AROCLP 12425 08/16/16**

Standard:	28353	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612029	**Usable:**	Yes
Part ID:					

Pos	Analyte	Name	Concentration
1	53469-21-9	Aroclor 1242	1.6 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.08 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.16 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	96 mL	06/11/2025
28328	AROCLP 1242	AROCLP 1242 2/4/40 INT	EGC150612005	4 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12481

AROCLP 12481 — **Description:** AROCLP 12481 .005/.01/.1

Standard:	28354	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612030	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	12672-29-6	Aroclor 1248	0.1 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.005 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.01 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99.75 mL	06/11/2025
28329	AROCLP 1248	AROCLP 1248 2/4/40 INT	EGC150612006	0.25 mL	12/12/2015

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STANDARD REPORT

Working Standard - AROCLP 12482

AROCLP 12482 — **Description:** AROCLP 12482 01/02/2

Standard:	28355	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612031	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	12672-29-6	Aroclor 1248	0.2 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.01 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99.5 mL	06/11/2025
28329	AROCLP 1248	AROCLP 1248 2/4/40 INT	EGC150612006	0.5 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12483

AROCLP 12483		Description - AROCLP 12483 02/04/4
Standard: 28356	**Created By:** S. Sagers	**Amount:** 200 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612032	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	12672-29-6	Aroclor 1248	0.4 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	198 mL	06/11/2025
28329	AROCLP 1248	AROCLP 1248 2/4/40 INT	EGC150612006	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12484

AROCLP 12484		Description - AROCLP 12484 .04/.08/.8
Standard: 28357	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612033	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	12672-29-6	Aroclor 1248	0.8 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.04 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.08 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	98 mL	06/11/2025
28329	AROCLP 1248	AROCLP 1248 2/4/40 INT	EGC150612006	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12485

AROCLP 12485 — Description - AROCLP 12485 08/16/16

Standard:	28358	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612034	**Usable:**	Yes
Part ID:					

Pos	Analyte	Name	Concentration
1	12672-29-6	Aroclor 1248	1.6 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.08 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.16 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	96 mL	06/11/2025
28329	AROCLP 1248	AROCLP 1248 2/4/40 INT	EGC150612006	4 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12541

AROCLP 12541 — Description - AROCLP 12541 005/01/01

Standard:	28359	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612035	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	11097-69-1	Aroclor 1254	0.1 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.005 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.01 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99.75 mL	06/11/2025
28330	AROCLP 1254	AROCLP 1254 2/4/40 INT	EGC150612007	0.25 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12542

AROCLP 12542 — Description: AROCLP 12542 01/02/2

Standard: 28360	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612036	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11097-69-1	Aroclor 1254	0.2 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.01 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99.5 mL	06/11/2025
28330	AROCLP 1254	AROCLP 1254 2/4/40 INT	EGC150612007	0.5 mL	12/12/2015

: 81925

STANDARD REPORT

Working Standard - AROCLP 12543

AROCLP 12543		Description - AROCLP 12543 .02/.04/.4
Standard: 28361	**Created By:** S. Sagers	**Amount:** 200 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612037	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11097-69-1	Aroclor 1254	0.4 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	198 mL	06/11/2025
28330	AROCLP 1254	AROCLP 1254 2/4/40 INT	EGC150612007	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12544

AROCLP 12544 — Description - AROCLP 12544 04/08/8

Standard:	28362	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612038	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	11097-69-1	Aroclor 1254	0.8 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.04 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.08 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	98 mL	06/11/2025
28330	AROCLP 1254	AROCLP 1254 2/4/40 INT	EGC150612007	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12545

AROCLP 12545		Description - AROCLP 12545 08/16/16
Standard: 28363	Created By: S. Sagers	Amount: 100 mL
MFG: ALS	Create Date: 06/12/2015	Expires: 12/12/2015
MFG Lot: WS	Lab Lot: EGC150612039	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11097-69-1	Aroclor 1254	1.6 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.08 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.16 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	96 mL	06/11/2025
28330	AROCLP 1254	AROCLP 1254 2/4/40 INT	EGC150612007	4 mL	12/12/2015

01929

STANDARD REPORT

Working Standard - AROCLP 12621

AROCLP 12621 — Description: AROCLP 12621 .005/.01/1

Standard:	28364	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612040	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	37324-23-5	Aroclor 1262	0.1006 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.005 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.01 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99.75 mL	06/11/2025
28331	AROCLP 1262	AROCLP 1262 2/4/40 INT	EGC150612008	0.25 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12622

AROCLP 12622 — **Description - AROCLP 12622 .01/.02/.2**

Standard: 28365	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612041	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	37324-23-5	Aroclor 1262	0.2012 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.01 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	49.75 mL	06/11/2025
28331	AROCLP 1262	AROCLP 1262 2/4/40 INT	EGC150612008	0.25 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12623

AROCLP 12623		Description: AROCLP 12623 02/04/4
Standard: 28366	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612042	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	37324-23-5	Aroclor 1262	0.4024 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	49.5 mL	06/11/2025
28331	AROCLP 1262	AROCLP 1262 2/4/40 INT	EGC150612008	0.5 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12624

AROCLP 12624		Description: AROCLP 12624 04/08/8
Standard: 28367	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612043	**Usable:** Yes
Part ID:		

Pos	Analyte	Name	Concentration
1	37324-23-5	Aroclor 1262	0.8048 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.04 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.08 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	49 mL	06/11/2025
28331	AROCLP 1262	AROCLP 1262 2/4/40 INT	EGC150612008	1 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12625

AROCLP 12625 — **Description: AROCLP 12625 08/16/16**

Standard:	28368	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612044	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	37324-23-5	Aroclor 1262	1.6096 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.08 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.16 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	48 mL	06/11/2025
28331	AROCLP 1262	AROCLP 1262 2/4/40 INT	EGC150612008	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12681

AROCLP 12681 — **Description - AROCLP 12681 .005/.01/.1**

Standard:	28369	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612045	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	11100-14-4	Aroclor 1268	0.1002 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.005 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.01 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	99.75 mL	06/11/2025
28332	AROCLP 1268	AROCLP 1268 2/4/40 INT	EGC150612009	0.25 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12682

AROCLP 12682 — Description: AROCLP 12682 01/02/2

Standard:	28370	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612046	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	11100-14-4	Aroclor 1268	0.2004 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.01 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	49.75 mL	06/11/2025
28332	AROCLP 1268	AROCLP 1268 2/4/40 INT	EGC150612009	0.25 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12683

AROCLP 12683 — **Description: AROCLP 12683 02/04/4**

Standard:	28371	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC150612047	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	11100-14-4	Aroclor 1268	0.4008 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	49.5 mL	06/11/2025
28332	AROCLP 1268	AROCLP 1268 2/4/40 INT	EGC150612009	0.5 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12684

AROCLP 12684 — **Description - AROCLP 12684 04/08/8**

Standard: 28372	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612048	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11100-14-4	Aroclor 1268	0.8016 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.04 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.08 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	49 mL	06/11/2025
28332	AROCLP 1268	AROCLP 1268 2/4/40 INT	EGC150612009	1 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP 12685

AROCLP 12685		Description - AROCLP 12685, 08/16/16
Standard: 28373	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 12/12/2015
MFG Lot: WS	**Lab Lot:** EGC150612049	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11100-14-4	Aroclor 1268	1.6032 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.08 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.16 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
28300	Hexanes	Hexanes DI907	DL907	48 mL	06/11/2025
28332	AROCLP 1268	AROCLP 1268 2/4/40 INT	EGC150612009	2 mL	12/12/2015

STANDARD REPORT

Working Standard - AROCLP LCS

AROCLP LCS — Description - AROCLP LCS SPIKE 1 ug/mL

Standard: 28374	**Created By:** S. Sagers	**Amount:** 200 mL
MFG: ALS	**Create Date:** 06/12/2015	**Expires:** 09/30/2016
MFG Lot: SPIKE	**Lab Lot:** EGC150612050	**Usable:** Yes
Part ID:		

Pos	Analyte	Name	Concentration
1	12674-11-2	Aroclor 1016	1 ug/mL
2	11096-82-5	Aroclor 1260	1 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21543	AR1660	AR1660 1000 PPM	CJ-3291	0.2 mL	09/30/2016
28301	Acetone	Acetone DL683	DL683	199.8 mL	06/11/2025

STANDARD REPORT

Working Standard - AROCLP MS

AROCLPMS — Description: AROCLP MS SPIKE 4 ug/mL

Standard:	28375	**Created By:**	S. Sagers	**Amount:**	200 mL
MFG:	ALS	**Create Date:**	06/12/2015	**Expires:**	12/12/2015
MFG Lot:	SPIKE	**Lab Lot:**	EGC150612051	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	12674-11-2	Aroclor 1016	4 ug/mL
2	11096-82-5	Aroclor 1260	4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21543	AR1660	AR1660 1000 PPM	CJ-3291	0.8 mL	09/30/2016
28301	Acetone	Acetone DL683	DL683	199.2 mL	06/11/2025

21715 S 21715

RESTEK® CERTIFIED REFERENCE MATERIAL

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Certificate of Analysis

ACCREDITED ISO Guide 34 Accredited Reference Material Producer Certificate #3122.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3122.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is Intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Rec'd 12/13/13

Catalog No. : 32453 **Lot No.:** A098794

Description : SOM01.1 Pesticide Surrogate Standard

Pesticide Surrogate Mix 100-200µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2020 **Storage:** 0°C or colder

Handling: Contains PCBs - sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2,4,5,6-Tetrachloro-m-xylene	100.9 µg/mL	+/- 0.7157 µg/mL	Gravimetric
	CAS # 877-09-8 (Lot 0052481)		+/- 2.0258 µg/mL	Unstressed
	Purity 98%		+/- 3.4202 µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)	201.0 µg/mL	+/- 1.4253 µg/mL	Gravimetric
	CAS # 2051-24-3 (Lot ER071509-01)		+/- 4.0339 µg/mL	Unstressed
	Purity 99%		+/- 6.8105 µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

ULTRA SCIENTIFIC
Analytical Standards

Certificate of Analysis

21543

Method 8082 Calibration Mixture

Product Number: PPM-8082 **Page:** 1 of 1

Lot Number: CJ-3291 **Lot Issue Date:** 10-Sep-2012 **Expiration Date:** 30-Sep-2016

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1016	012674-11-2	NT01016	1004 ± 5 µg/mL
Aroclor 1260	011096-82-5	NT01023	1004 ± 5 µg/mL

Matrix: Isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15-30°C)

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0861-01

ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09-1009

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William J. Leary
Quality Assurance Manager

: 81812

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Web AccuStandard.com

AccuStandard, Inc.

CERTIFICATE OF ANALYSIS

ISO 9001:2000

CATALOG NO. C-221S-H-10X
DESCRIPTION: Aroclor 1221
LOT: B6010246
SOLVENT: Hexane

3518

EXPIRATION: Jan 23, 2016

Rec'd 07 25 06

This product is guaranteed accurate to ±0.5% of the Certified Analyte concentration through the Expiration Date on the Label.

See reverse for additional certification information.

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Aroclor 1221	11104-28-2	Tech Mix 1001	±40.04	1001

1. All weights are traceable through National Institute of Standards & Technology, Test No. 822/270236-04
2. Certified Analyte Concentration = Purity x Prepared Concentration
3. A product with a suffix (-1A, -2B, etc.) on its lot# has had its expiration date extended and is Identical to the same lot# without the suffix.

Please note: AccuStandard follows the U.S. conventions in reporting numerical values, on both certificates and labels.

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

Certified by: R. Cooper

This product was manufactured to meet the quality system requirements of ISO 9001:2000 and ISO 17025

OR-ORG/NO-001
Rev. 6/05

125 Market Street
New Haven, CT 06513 USA
Tel (203)786-5290 Fax (203)786-5287
Web AccuStandard.com

AccuStandard, Inc.

CERTIFICATE OF ANALYSIS

ISO 9001:2000

CATALOG NO. C-232S-H-10X

DESCRIPTION: Aroclor 1232

LOT: B6010264

SOLVENT: hexane

S 3519

EXPIRATION: Jan 24, 2016

Rec'd 072506

This product is guaranteed accurate to ±0.5% of the Certified Analyte concentration through the Expiration Date on the Label.

See reverse for additional certification information.

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Aroclor 1232	11141-16-5	Tech Mix 1002	±40.08	1002

1. All weights are traceable through National Institute of Standards & Technology, Test No. 822/270236-04
2. Certified Analyte Concentration = Purity x Prepared Concentration
3. A product with a suffix (-1A, -2B, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

Please note: AccuStandard follows the U.S. conventions in reporting numerical values, on both certificates and labels.

)mma (,) is used to separate units of one-thousand or greater.
:riod (.) is used as a decimal place marker.

Certified by: R. Cooper

This product was manufactured to meet the quality system requirements of ISO 9001:2000 and ISO 17025

OR-ORG/INO-001
Rev. 0/05

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Is

21723

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CERTIFICATE OF ANALYSIS

Rec'd 12/16/13

Catalog No: C-242S-H-10X
Description: Aroclor 1242

21723

Lot: 213061664
Solvent: Hexane

Date Certified: Jun 27, 2013
Expiration: Jun 27, 2023
Sample Size: 1 mL
Storage Condition: Ambient
Hazards: HIGHLY FLAMMABLE

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Aroclor 1242	53469-21-9	Tech Mix	1000	1000

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No822-276872-11
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.
3. A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

See reverse side for additional information
Refer to the MSDS for additional safety information

For use in routine laboratory analysis.

Certified by: R. Cooper
Russ Cooper, QC Manager

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

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Fax (203)786-5287
Website AccuStandard.com

CERTIFICATE OF ANALYSIS

Rec'd 03/25/10

13484

CATALOG NO: C-248S-H-10X S
DESCRIPTION: Aroclor 1248
LOT: 209111008
SOLVENT: Hexane

DATE CERTIFIED: Nov 2, 2009
EXPIRATION: Nov 2, 2019
SAMPLE SIZE: 1 mL
STORAGE CONDITION: Ambient
HAZARDS: FLAMMABLE

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Aroclor 1248	12672-29-6	Tech	1004	1004

Please note:
A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No822/272103-05
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for this product is ±2% which is the Combined Uncertainty uc(y). It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is U which is Uc(y) *K where K is the coverage factor at the 95% confidence level (K=2).

Certified by: R. Cooper
Russ Cooper, QC Manager

For use in routine laboratory analysis.

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AccuStandard is accredited to ISO/IEC 17025:2005 and certified to ISO 9001:2000

: 91948

13485 Recd Dec 2010

125 Market Street
New Haven, CT 06513
USA

AccuStandard, Inc.

Tel (203)786-5290
Fax (203)786-5287
Website AccuStandard.com

CERTIFICATE OF ANALYSIS

13485

CATALOG NO: C-254S-H-10X
DESCRIPTION: Aroclor 1254
LOT: 210061347
SOLVENT: Hexane

DATE CERTIFIED: Jun 28, 2010
EXPIRATION: Jun 28, 2020
SAMPLE SIZE: 1 mL
STORAGE CONDITION: Ambient
HAZARDS: FLAMMABLE

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Aroclor 1254	11097-69-1	Tech	1009	1009

AccuStandard

Please note:
A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

Comma (,) is used to separate units of one-thousand or greater.
Period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No.822/272103-05
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for this product is ±2% which is the Combined Uncertainty uc(y). It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is U which is Uc(y) *K where K is the coverage factor at the 95% confidence level (K=2).

Certified by: R. Cooper
Russ Cooper, QC Manager

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125 Market Street
New Haven, CT 06513
USA

AccuStandard, Inc.

21724

(203)786-5290
(203)786-5287
.ccuStandard.com

CERTIFICATE OF ANALYSIS

Rec'd 12/16/13

21724

Catalog No: C-262S-H-10X
Description: Aroclor 1262

Lot: B6010227
Solvent: Hexane

Date Certified: Jan 20, 2006
Expiration: Jan 20, 2016
Sample Size: 1 mL
Storage Condition: Ambient
Hazards: HIGHLY FLAMMABLE

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Aroclor 1262	37324-23-5	Tech Mix	1006	1006

ACCUSTANDARD

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No. 822/270236-04
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.
3. A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

See reverse side for additional information
Refer to the MSDS for additional safety information

For use in routine laboratory analysis.

Certified by: R. Cooper
Russ Cooper, QC Manager

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CERTIFICATE OF ANALYSIS

Rec'd 021413

15386

Catalog No: C-268S-H-10X
Description: Aroclor 1268

Lot: 209091091
Solvent: Hexane

Date Certified: Sep 16, 2009
Expiration: Sep 16, 2019
Sample Size: 1 mL
Storage Condition: Ambient
Hazards: HIGHLY FLAMMABLE

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Aroclor 1268	11100-14-4	Tech Mix	1002	1002

AccuStandard

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No.822/272103-05
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.
3. A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

For use in routine laboratory analysis.

See reverse side for additional information
Refer to the MSDS for additional safety information

Certified by: R. Cooper
Russ Cooper, QC Manager

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515725	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 5gSoil
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	Requested Analysis: SOM01.2 VOA, Soil
1	06/04/2015 11:00	F9K00	1515725001		Soil/Solid/Sediment	E,F,G	3	E 4.669g 5.206g 5.386g
2	06/04/2015 08:10	F9M82	1515725002		Soil/Solid/Sediment	E,F,G	3	E 5.036g 5.044g 4.863g
3	06/04/2015 08:15	F9M83	1515725003 F		Soil/Solid/Sediment	E,F,G	3	E 5.170g 4.352g 4.554g
4	06/04/2015 08:30	F9M84	1515725004		Soil/Solid/Sediment	E,F,G	3	E 4.885g 5.299g 5.109g
5	06/04/2015 08:35	F9M85	1515725005		Soil/Solid/Sediment	E,F,G	3	E 3.264g 4.300g 5.205g
6	06/04/2015 08:40	F9M86	1515725006		Soil/Solid/Sediment	E,F,G	3	E 5.038g 4.199g 5.295g
7	06/04/2015 09:05	F9M87	1515725007		Soil/Solid/Sediment	E,F,G	3	E 5.066g 4.765g 4.819g
8	06/04/2015 09:00	F9M88	1515725008		Soil/Solid/Sediment	E,F,G	3	E 4.912g 4.199g 4.456g
9	06/04/2015 09:05	F9M89	1515725009		Soil/Solid/Sediment	E,F,G	3	E 4.765g 4.522g 5.124g
10	06/04/2015 09:10	F9M90	1515725010		Soil/Solid/Sediment	E,F,G	3	E 4.224g 5.035g 3.822g

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/05/2015 10:09	ALS Sample Receiving	Sample Login
[illegible]	06/04/2015 17:30	Storage	Storage
J-C-E	06-11-15		

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515725	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 5gSoil
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	Requested Analysis: SOM01.2 VOA, Soil										
11	06/04/2015 09:30	F9M91	1515725011		Soil/Solid/Sediment	E,F,G	3	E	4.630g	4.519g	4.680g							
12	06/04/2015 09:35	F9M92	1515725014 F		Soil/Solid/Sediment	E,F,G	3	E	2.935g	4.655g	4.164g							
13	06/04/2015 09:45	F9M93	1515725015		Soil/Solid/Sediment	E,F,G	3	E	5.172g	5.378g	5.487g							
14	06/04/2015 09:50	F9M94	1515725016		Soil/Solid/Sediment	E,F,G	3	E	6.439g	5.426g	6.292g							
15	06/04/2015 09:55	F9M95	1515725017		Soil/Solid/Sediment	E,F,G	3	E	~~6.4~~ 6.142g	6.170g	6.350g							
16	06/04/2015 09:40	F9M96	1515725018		Soil/Solid/Sediment	E,F,G	3	E	5.579g	5.464g	5.127g							
17	06/04/2015 10:25	F9M97	1515725019		Soil/Solid/Sediment	E,F,G	3	E	4.646g	5.338g	5.345g							
18	06/04/2015 10:30	F9M98	1515725020		Soil/Solid/Sediment	E,F,G	3	E	4.036g	5.029g	3.845g							
19	06/04/2015 10:35	F9M99	1515725021		Soil/Solid/Sediment	E,F,G	3	E	4.486g	4.947g	4.662g							
20																		

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/05/2015 10:09	ALS Sample Receiving	Sample Login
[signature]	06/05/2015 1730	Storage	Storage
[signature]	06-11-15		

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515725	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozAGWM	
Comments:			Preservatives	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	COOL	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil
1	06/04/2015 11:00	F9K00	1515725001		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A	
2	06/04/2015 08:10	F9M82	1515725002		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A	
3	06/04/2015 08:15	F9M83	1515725003		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A	
4	06/04/2015 08:30	F9M84	1515725004		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A	
5	06/04/2015 08:35	F9M85	1515725005		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A	
6	06/04/2015 08:40	F9M86	1515725006		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A	
7	06/04/2015 09:05	F9M87	1515725007		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A	
8	06/04/2015 09:00	F9M88	1515725008		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A	
9	06/04/2015 09:05	F9M89	1515725009		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A	
10	06/04/2015 09:10	F9M90	1515725010		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A	

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/05/2015 10:09	ALS Sample Receiving	Sample Login
[illegible]	06/05/2015 17:30	R-33-1 Cart	Storage
R-33-1 Cart	6/12/15 900	[illegible]	Ext.
[illegible]	6/12/15 1100	R-319-1	Storage

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: SV Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[illegible]	6/15/15 13:00	[illegible]	one GPC core
[illegible]	6/15/15 1600	[illegible]	GC
[illegible]	6/16/15 11:00	[illegible]	post-GPC core
[illegible]	6/16/15 1600	R-60-6	Stor
R-60-6 SV	6/20/15 1600	[illegible]	GC/MS

ALS

ALS Environmental
CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515725	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozAGWM
Comments:			Preservatives: COOL

Requested Analysis

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil
11	06/04/2015 09:30	F9M91	1515725011		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
12	06/04/2015 09:30	F9M91MS	1515725012	MS	Soil/Solid/Sediment	A,B	2			A	A
13	06/04/2015 09:30	F9M91MSD	1515725013	MSD	Soil/Solid/Sediment	A,B	2			A	A
14	06/04/2015 09:35	F9M92	1515725014		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
15	06/04/2015 09:45	F9M93	1515725015		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
16	06/04/2015 09:50	F9M94	1515725016		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
17	06/04/2015 09:55	F9M95	1515725017		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
18	06/04/2015 09:40	F9M96	1515725018		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
19	06/04/2015 10:25	F9M97	1515725019		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
20	06/04/2015 10:30	F9M98	1515725020		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/05/2015 10:09	ALS Sample Receiving	Sample Login
[signature]	06/05/2015 17:30	R-33-1 cart	Storage
R-33-1 cart	6/12/15 900	[signature]	~~Storage~~ 6/12/15 pt
[signature]	6/12/15 1100	R-319-1	Storage

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: SV Lab Notebook No.:

Prepared / Analyzed by: Date / Time:

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[signature]	6/15/15 13:00	[signature]	[illegible] GPC [illegible]
[signature]	6/15/15 1600	[signature]	GPC
Ext [signature]	6/16/15 11:00	[signature]	[illegible] GPC [illegible]
[signature]	6/16/15 16:00	R-60-6	Storage
R-60-6 SY	6/20/15 1100	[signature]	GC/MS

ALS Environmental
CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515725	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozAGWM
Comments:			Preservatives: COOL

Requested Analysis

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil
21	06/04/2015 10:35	F9M99	1515725021		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
22											
23											
24											
25											
26											
27											
28											
29											
30											

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/05/2015 10:09	ALS Sample Receiving	Sample Login
[illegible]	06/05/2015 17:30	R-33-1 Cart	Storage
R-33-1 cart	6/12/15 900	[illegible]	Ext
[illegible]	6/12/15	R-319-1	Storage

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: SV Lab Notebook No.:

Prepared / Analyzed by: Date / Time:

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[illegible]	6/15/15 13:00	[illegible]	[illegible] GPC [illegible]
[illegible]	6/15/15 1600	[illegible]	GPC
[illegible]	6/16/15 11:00	[illegible]	[illegible] GPC [illegible]
[illegible]	6/16/15 16:00	R-60-6	Stor
R-60-6 SY	6/20/15 1100	[illegible]	GC/MS

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515725	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozAGWM	
Comments:			Preservatives: COOL	

Item	Collect Date/Time	LT	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil
1	06/04/2015 11:00		F9K00	1515725001		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
2	06/04/2015 08:10		F9M82	1515725002		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
3	06/04/2015 08:15		F9M83	1515725003		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
4	06/04/2015 08:30		F9M84	1515725004		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
5	06/04/2015 08:35		F9M85	1515725005		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
6	06/04/2015 08:40		F9M86	1515725006		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
7	06/04/2015 09:05		F9M87	1515725007		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
8	06/04/2015 09:00		F9M88	1515725008		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
9	06/04/2015 09:05		F9M89	1515725009		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
10	06/04/2015 09:10		F9M90	1515725010		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/05/2015 10:09	ALS Sample Receiving	Sample Login
[signature]	06/05/2015 17:30	R-33-1 Cart	Storage
R-33-1 Cart	6/12/15 900	[signature]	Ext.
[signature]	6/12/15 1100	R-314-1	Storage

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: SV

Lab Notebook No.:

Prepared / Analyzed by:

Date / Time:

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[signature]	6/15/15 13:40	[signature]	one GPC core
[signature]	6/15/15 1600	[signature]	QC
[signature]	6/16/15 11:40	[signature]	post-GPC core
[signature]	6/16/15 16:00	R-60-6	STOR
R-60-6 SY	6/20/15 1400	[signature]	GC/MS

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515725	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozAGWM	
Comments:			Preservatives	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	COOL	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil
11	06/04/2015 09:30	F9M91	1515725011		Soil/Solid/Sediment	A,B,C,D	4		C	C	A	A
12	06/04/2015 09:30	F9M91MS	1515725012	MS	Soil/Solid/Sediment	A,B	2				A	A
13	06/04/2015 09:30	F9M91MSD	1515725013	MSD	Soil/Solid/Sediment	A,B	2				A	A
14	06/04/2015 09:35	F9M92	1515725014		Soil/Solid/Sediment	A,B,C,D	4		C	C	A	A
15	06/04/2015 09:45	F9M93	1515725015		Soil/Solid/Sediment	A,B,C,D	4		C	C	A	A
16	06/04/2015 09:50	F9M94	1515725016		Soil/Solid/Sediment	A,B,C,D	4		C	C	A	A
17	06/04/2015 09:55	F9M95	1515725017		Soil/Solid/Sediment	A,B,C,D	4		C	C	A	A
18	06/04/2015 09:40	F9M96	1515725018		Soil/Solid/Sediment	A,B,C,D	4		C	C	A	A
19	06/04/2015 10:25	F9M97	1515725019		Soil/Solid/Sediment	A,B,C,D	4		C	C	A	A
20	06/04/2015 10:30	F9M98	1515725020		Soil/Solid/Sediment	A,B,C,D	4		C	C	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/05/2015 10:09	ALS Sample Receiving	Sample Login
OOP-Cox	06/05/2015 17:50	R-33-1 cart	Storage
R-33-1 cart	6/12/15 9:00	Peter Pan	~~Storage~~ Ext
Peter Pan	6/12/15 11:06	R-319-1	Storage

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: SV Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Peter Pan	6/15/15 12:00		One-GPC Cont
	6/16/15 1600		GPC
6/16/15 11:00 Ext	6/16/15 11:00		Peter-GPC Cont
	6/16/15 16:00	R-60-6	Storage
R-60-6 SY	6/20/15 1100		GC/MS

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515725	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozAGWM	
Comments:			Preservatives / COOL	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil
21	06/04/2015 10:35	F9M99	1515725021		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
22											
23											
24											
25											
26											
27											
28											
29											
30											

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/05/2015 10:09	ALS Sample Receiving	Sample Login
[illegible]	06/05/2015 1730	R-33-1 Cart	Storage
R-33-1 cart	6/12/15 900	Peter [illegible]	Ext
Peter [illegible]	6/12/15	R-319-1	Storage

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: SV Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[illegible]	6/15/15 13:00	[illegible]	prep GPC cont
[illegible]	6/15/15 1600	[illegible]	GPC
[illegible]	6/16/15 11:00	[illegible]	cont GPC cont
[illegible]	6/16/15 16:00	R-60-6	Storage
R-60-6 SV	6/20/15 1100	[illegible]	GC/MS

ALS Environmental
CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515725	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozAGWM
Comments:			Preservatives: COOL

Requested Analysis

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil
1	06/04/2015 11:00	F9K00	1515725001		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
2	06/04/2015 08:10	F9M82	1515725002		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
3	06/04/2015 08:15	F9M83	1515725003		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
4	06/04/2015 08:30	F9M84	1515725004		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
5	06/04/2015 08:35	F9M85	1515725005		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
6	06/04/2015 08:40	F9M86	1515725006		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
7	06/04/2015 09:05	F9M87	1515725007		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
8	06/04/2015 09:00	F9M88	1515725008		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
9	06/04/2015 09:05	F9M89	1515725009		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
10	06/04/2015 09:10	F9M90	1515725010		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/05/2015 10:09	ALS Sample Receiving	Sample Login
[illegible]	06/05/2015 17:30	R-33-1 Cart	Storage
R-33-1 Cart	6/12/15 900	Peter [illegible]	Ext
Peter [illegible]	6/12/15 1100	R-319-1	Storage

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: FEST Lab Notebook No.:

Prepared / Analyzed by: Date / Time:

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Peter Tran	1600 6/12/15	[illegible]	[illegible] GPC [illegible]
[illegible]	6/12/15 17:00	R-63-[illegible]	Stor
R-63-1	6/14/15 1500	[illegible]	GPC
[illegible]	6/15/15 13:00	[illegible]	[illegible] GPC [illegible]
[illegible]	6/15/15 17:00	[illegible]	Florisil
[illegible]	6/16/15 11:00	R-[illegible]	Stor
R-72-1	06/23/15 1200	[illegible]	Analysis

Fri 06/05/15 5:24 PM

ALS Environmental
CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515725	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozAGWM
Comments:			Preservatives: COOL

Requested Analysis

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil
11	06/04/2015 09:30	F9M91	1515725011		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
12	06/04/2015 09:30	F9M91MS	1515725012	MS	Soil/Solid/Sediment	A,B	2			A	A
13	06/04/2015 09:30	F9M91MSD	1515725013	MSD	Soil/Solid/Sediment	A,B	2			A	A
14	06/04/2015 09:35	F9M92	1515725014		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
15	06/04/2015 09:45	F9M93	1515725015		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
16	06/04/2015 09:50	F9M94	1515725016		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
17	06/04/2015 09:55	F9M95	1515725017		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
18	06/04/2015 09:40	F9M96	1515725018		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
19	06/04/2015 10:25	F9M97	1515725019		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
20	06/04/2015 10:30	F9M98	1515725020		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/05/2015 10:09	ALS Sample Receiving	Sample Login
[illegible]	06/05/2015 17:30	R-33-1 cart	Storage
R-33-1 cart	6/12/15 900	[illegible]	~~Storage~~ 6/12/15 pt
[illegible]	6/12/15 1100	R-319-1	Storage

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: PEST Lab Notebook No.:

Prepared / Analyzed by: Date / Time:

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[illegible]	6/12/15 1600	[illegible]	[illegible] GPC [illegible]
[illegible]	6/12/15 17:00	R-63-1 [illegible]	STOR
Ext R-63-1	6/14/15 1500	[illegible]	GPC
[illegible]	6/18/15 13:00	[illegible]	[illegible] GPC [illegible]
[illegible]	6/18/15 17:00	[illegible]	Florid
[illegible]	6/16/15 11:00	R-72-1 [illegible]	STOR
R-72-1 [illegible]	06/23/15 1200	[illegible]	Analysis

ALS Environmental
CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515725	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozAGWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil
21	06/04/2015 10:35	F9M99	1515725021		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
22											
23											
24											
25											
26											
27											
28											
29											
30											

Requested Analysis

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/05/2015 10:09	ALS Sample Receiving	Sample Login
[illegible]	06/05/2015 17:30	R-33-1 Cart	Storage
R-33-1 cart	6/10/15 900	Peter [illegible]	Ext
Peter [illegible]	6/12/15	R-319-1	Storage

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: PEST Lab Notebook No.:

Prepared / Analyzed by: Date / Time:

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Peter [illegible]	6/12/15 1600	[illegible]	[illegible] GPC [illegible]
[illegible]	6/12/15 17:00	R-63-1 [illegible]	STOR
R-63-1	6/14/18 1500	[illegible]	GPC
[illegible]	6/15/15 13:00	[illegible]	[illegible] GPC [illegible]
[illegible]	6/15/15 17:00	[illegible]	[illegible]
[illegible]	6/16/15 11:00	R-72-1 [illegible]	STOR
R-72-1 [illegible]	06/23/15 1200	[illegible]	[illegible]

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515725	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozAGWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil	Requested Analysis
1	06/04/2015 11:00	F9K00	1515725001		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A	
2	06/04/2015 08:10	F9M82	1515725002		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A	
3	06/04/2015 08:15	F9M83	1515725003		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A	
4	06/04/2015 08:30	F9M84	1515725004		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A	
5	06/04/2015 08:35	F9M85	1515725005		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A	
6	06/04/2015 08:40	F9M86	1515725006		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A	
7	06/04/2015 09:05	F9M87	1515725007		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A	
8	06/04/2015 09:00	F9M88	1515725008		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A	
9	06/04/2015 09:05	F9M89	1515725009		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A	
10	06/04/2015 09:10	F9M90	1515725010		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A	

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/05/2015 10:09	ALS Sample Receiving	Sample Login
[illegible]	06/04/2015 17:3[illegible]	R-33-1 Cart	Storage
R-33-1 Cart	6/12/15 900	[illegible]	Ext
[illegible]	6/12/15 1100	R-319-1	Storage

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: ASU Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[illegible]	6/12/15 16:[illegible]	[illegible]	[illegible]
[illegible]	6/12/15 17:[illegible]	[illegible]	STOR
[illegible]	6/14/15 1500	[illegible]	CRC
[illegible]	6/15/15 13:[illegible]	[illegible]	[illegible]
[illegible]	6/15/15 17:[illegible]	R-72-1 [illegible]	[illegible]
[illegible]	6/15/15 [illegible]	[illegible]	[illegible]
R-72-1 NB	06/17/15 16:30	[illegible]	analysis

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515725	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozAGWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil	Requested Analysis
11	06/04/2015 09:30	F9M91	1515725011		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A	
12	06/04/2015 09:30	F9M91MS	1515725012	MS	Soil/Solid/Sediment	A,B	2			A	A	
13	06/04/2015 09:30	F9M91MSD	1515725013	MSD	Soil/Solid/Sediment	A,B	2			A	A	
14	06/04/2015 09:35	F9M92	1515725014		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A	
15	06/04/2015 09:45	F9M93	1515725015		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A	
16	06/04/2015 09:50	F9M94	1515725016		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A	
17	06/04/2015 09:55	F9M95	1515725017		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A	
18	06/04/2015 09:40	F9M96	1515725018		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A	
19	06/04/2015 10:25	F9M97	1515725019		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A	
20	06/04/2015 10:30	F9M98	1515725020		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A	

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/05/2015 10:09	ALS Sample Receiving	Sample Login
[illegible]	06/05/2015 17:30	R-33-1 cart	Storage
R-33-1 cart	6/12/15 900	[illegible]	~~Storage~~ 6/12/15 pc
[illegible]	6/12/15 1106	R-319-1	Storage

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: Hg Lab Notebook No.:

Prepared / Analyzed by: Date / Time:

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[illegible]	6/12/15 16:00	[illegible]	pre-GPC cool
[illegible]	6/12/15 17:00	R-63-1 [illegible]	STOR
Ext R-63-1	6/14/15 1500	[illegible]	C&C
[illegible]	6/15/15 13:00	[illegible]	post-GPC cool
[illegible]	6/15/15 17:00	R-72-1 [illegible]	STOR
R-72-1 NB	06/17/15 16:30	[illegible]	analysis

ALS Environmental
CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515725	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozAGWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil
21	06/04/2015 10:35	F9M99	1515725021		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
22											
23											
24											
25											
26											
27											
28											
29											
30											

Requested Analysis

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/05/2015 10:09	ALS Sample Receiving	Sample Login
[illegible]	06/05/2015 17:30	R-33-1 Cart	Storage
R-33-1 cart	6/12/15 900	[illegible]	Ext
[illegible]	6/12/15	R-319-1	Storage

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: Aro Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[illegible]	6/12/15 16:00	[illegible]	Ice — CPC cooler
[illegible]	6/12/15 17:00	R-63-1 [illegible]	Stor
R-63-1	6/14/15 1500	[illegible]	CPC
[illegible]	6/15/15 13:00	[illegible]	Ice — CPC cooler
[illegible]	6/15/15 17:00	R-72-1 [illegible]	Stor
R-72-1 NB	06/17/15 16:30	[illegible]	analysis

ALS Environmental
CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515725	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 4ozAGWM	
Comments:			Preservatives: COOL	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	Solids/Moisture Determination	
1	06/04/2015 11:00	F9K00	1515725001		Soil/Solid/Sediment	H	1	H	
2	06/04/2015 08:10	F9M82	1515725002		Soil/Solid/Sediment	H	1	H	
3	06/04/2015 08:15	F9M83	1515725003		Soil/Solid/Sediment	H	1	H	
4	06/04/2015 08:30	F9M84	1515725004		Soil/Solid/Sediment	H	1	H	
5	06/04/2015 08:35	F9M85	1515725005		Soil/Solid/Sediment	H	1	H	
6	06/04/2015 08:40	F9M86	1515725006		Soil/Solid/Sediment	H	1	H	
7	06/04/2015 09:05	F9M87	1515725007		Soil/Solid/Sediment	H	1	H	
8	06/04/2015 09:00	F9M88	1515725008		Soil/Solid/Sediment	H	1	H	
9	06/04/2015 09:05	F9M89	1515725009		Soil/Solid/Sediment	H	1	H	
10	06/04/2015 09:10	F9M90	1515725010		Soil/Solid/Sediment	H	1	H	

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/05/2015 10:09	ALS Sample Receiving	Sample Login
Spencer	06/05/2015 17:30	GB	Storage
R-33-1 GB IJO	06/8/15 10:00	[signature]	Solid

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

ALS Environmental
CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515725	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 4ozAGWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	Solids/Moisture Determination	Requested Analysis
11	06/04/2015 09:30	F9M91	1515725011		Soil/Solid/Sediment	H	1	H	
12	06/04/2015 09:35	F9M92	1515725014		Soil/Solid/Sediment	H	1	H	
13	06/04/2015 09:45	F9M93	1515725015		Soil/Solid/Sediment	H	1	H	
14	06/04/2015 09:50	F9M94	1515725016		Soil/Solid/Sediment	H	1	H	
15	06/04/2015 09:55	F9M95	1515725017		Soil/Solid/Sediment	H	1	H	
16	06/04/2015 09:40	F9M96	1515725018		Soil/Solid/Sediment	H	1	H	
17	06/04/2015 10:25	F9M97	1515725019		Soil/Solid/Sediment	H	1	H	
18	06/04/2015 10:30	F9M98	1515725020		Soil/Solid/Sediment	H	1	H	
19	06/04/2015 10:35	F9M99	1515725021		Soil/Solid/Sediment	H	1	H	
20									

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/05/2015 10:09	ALS Sample Receiving	Sample Login
[signature]	06/05/15 17:30	6B	Storage
R-33-16BJJO	06/08/15 10:00	[signature]	Solid

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515725	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozAGWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	Requested Analysis: SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil
1	06/04/2015 11:00	F9K00	1515725001		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
2	06/04/2015 08:10	F9M82	1515725002		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
3	06/04/2015 08:15	F9M83	1515725003		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
4	06/04/2015 08:30	F9M84	1515725004		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
5	06/04/2015 08:35	F9M85	1515725005		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
6	06/04/2015 08:40	F9M86	1515725006		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
7	06/04/2015 09:05	F9M87	1515725007		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
8	06/04/2015 09:00	F9M88	1515725008		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
9	06/04/2015 09:05	F9M89	1515725009		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A
10	06/04/2015 09:10	F9M90	1515725010		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/05/2015 10:09	ALS Sample Receiving	Sample Login
[illegible]	06/04/2015 17:30	R-33-1 Cart	Storage
R-33-1 Cart	6/12/15 900	[illegible]	Ext
[illegible]	6/12/15 1100	R-319-1	Storage

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515725	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozAGWM
Comments:			Preservatives

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil	Requested Analysis									
						COOL															
11	06/04/2015 09:30	F9M91	1515725011		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A										
12	06/04/2015 09:30	F9M91MS	1515725012	MS	Soil/Solid/Sediment	A,B	2			A	A										
13	06/04/2015 09:30	F9M91MSD	1515725013	MSD	Soil/Solid/Sediment	A,B	2			A	A										
14	06/04/2015 09:35	F9M92	1515725014		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A										
15	06/04/2015 09:45	F9M93	1515725015		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A										
16	06/04/2015 09:50	F9M94	1515725016		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A										
17	06/04/2015 09:55	F9M95	1515725017		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A										
18	06/04/2015 09:40	F9M96	1515725018		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A										
19	06/04/2015 10:25	F9M97	1515725019		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A										
20	06/04/2015 10:30	F9M98	1515725020		Soil/Solid/Sediment	A,B,C,D	4	C	C	A	A										

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/05/2015 10:09	ALS Sample Receiving	Sample Login
OPP Courier	06/05/2015 17:30	R-33-1 cart	Storage
R-33-1 cart	6/12/15 900	Peter Jones	~~Storage~~ 6/10/15 Ext
Peter Jones	6/11/15 1100	R-319-1	Storage

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515725	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozAGWM
Comments:			Preservatives

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	COOL	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil	Requested Analysis
21	06/04/2015 10:35	F9M99	1515725021		Soil/Solid/Sediment	A,B,C,D	4		C	C	A	A	
22													
23													
24													
25													
26													
27													
28													
29													
30													

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Carlson, Thomas	06/05/2015 10:09	ALS Sample Receiving	Sample Login
Fed Ex	06/10/2015 1730	R-33-1 Cart	Storage
R-33-1 Cart	6/12/15 900	Peter Dan	Ext
Peter Dan	6/12/15	R-319-1	Storage

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X001.D
Acq Time : 06/11/2015 15:45 Operator: RJH
Sample : F9K00 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 16:08 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.84	114	1991368	50.0000 ug/Kg	71.95
30) Chlorobenzene-d5	12.08	117	1562439	50.0000 ug/Kg	71.47
62) 1,4-dichlorobenzene-d4	15.73	152	976931	50.0000 ug/Kg	74.13
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	0.00	65	0	0.0000 ug/Kg	0.00%#
8) Chloroethane-d5	2.85	69	436	0.0406 ug/Kg	0.08%#
11) 1,1-Dichloroethene-d2	0.00	63	0	0.0000 ug/Kg	0.00%#
22) 2-Butanone-d5	0.00	46	0	0.0000 ug/Kg	0.00%#
25) Chloroform-d	0.00	84	0	0.0000 ug/Kg	0.00%#
27) 1,2-Dichloroethane-d4	0.00	65	0	0.0000 ug/Kg	0.00%#
29) 1,4-Dioxane-d8	0.00	96	0	0.0000 ug/Kg	0.00%#
35) Benzene-d6	0.00	84	0	0.0000 ug/Kg	0.00%#
39) 1,2-Dichloropropane-d6	0.00	67	0	0.0000 ug/Kg	0.00%#
42) cis-1,3-Dichloropropene-d4	0.00	79	0	0.0000 ug/Kg	0.00%
44) trans-1,3-Dichloropropene-	0.00	79	0	0.0000 ug/Kg	0.00%#
49) Toluene-d8	0.00	98	0	0.0000 ug/Kg	0.00%#
52) 2-Hexanone-d5	0.00	63	0	0.0000 ug/Kg	0.00%#
61) 1,1,2,2-Tetrachloroethane-	0.00	84	0	0.0000 ug/Kg	0.00%#
67) 1,2-Dichlorobenzene-d4	16.53	152	712	0.0410 ug/Kg	0.08%#
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.89	43	11195	3.4899 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	4.34	43	2053	0.2717 ug/Kg#	57
16) Methylene chloride	0.00	84		Not Detected	
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	6.20	43	5803	1.2811 ug/Kg#	60
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

01869

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X001.D
Acq Time : 06/11/2015 15:45 Operator: RJH
Sample : F9K00 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 16:08 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	0.00	91		Not Detected	
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	12.47	106	3977	0.2070 ug/Kg#	67
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

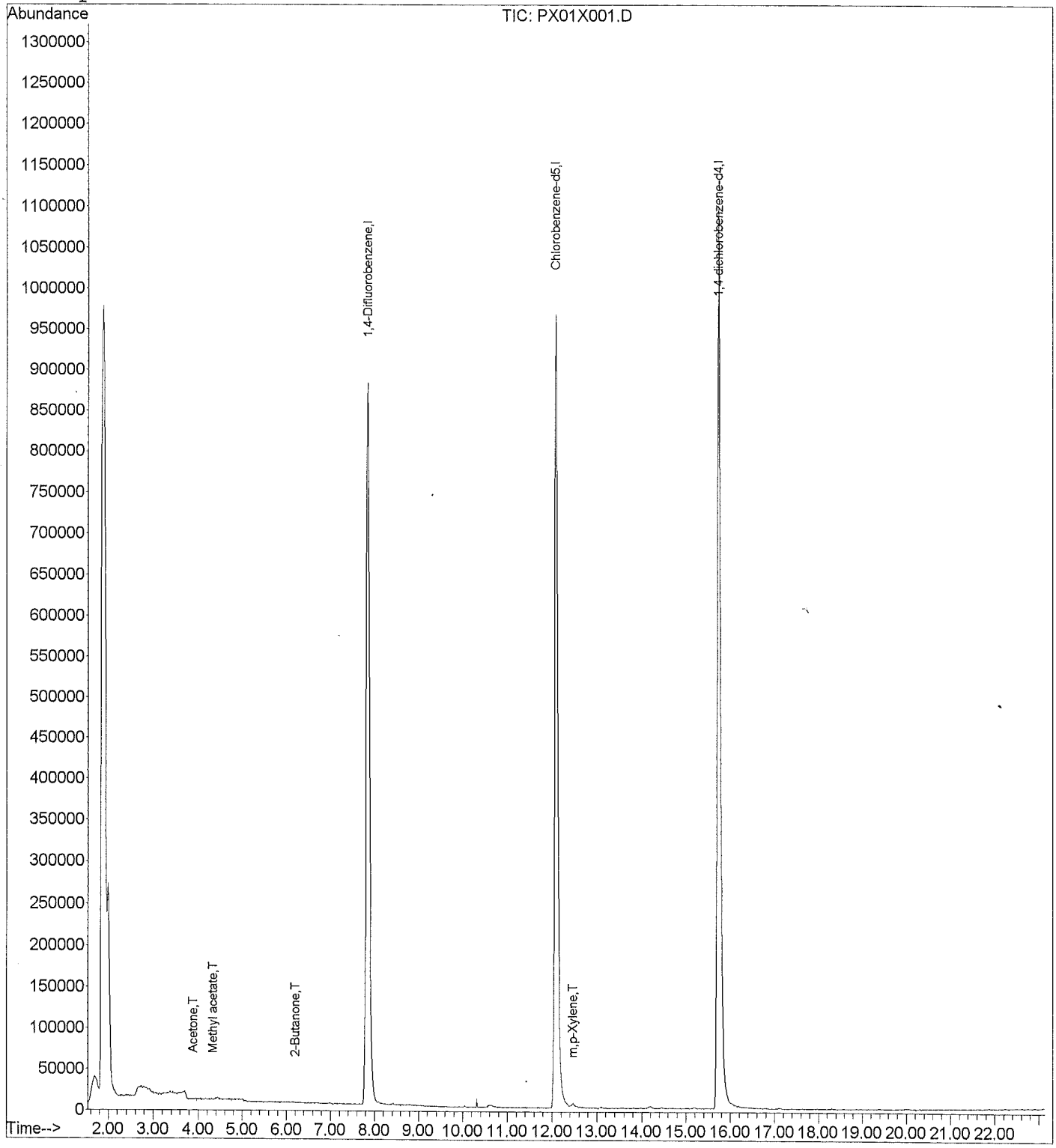
:01978

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X001.D
Acq Time : 06/11/2015 15:45 Operator: RJH
Sample : F9K00 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 16:08 2015 Quant Results File: PCLPSD.RES

Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration



:01971

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X002.D
Acq Time : 06/11/2015 16:14 Operator: RJH
Sample : F9M82 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 16:38 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.87	114	1868001	50.0000 ug/Kg	67.49
30) Chlorobenzene-d5	12.10	117	1478073	50.0000 ug/Kg	67.61
62) 1,4-dichlorobenzene-d4	15.76	152	912515	50.0000 ug/Kg	69.25
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	0.00	65	0	0.0000 ug/Kg	0.00%#
8) Chloroethane-d5	0.00	69	0	0.0000 ug/Kg	0.00%#
11) 1,1-Dichloroethene-d2	0.00	63	0	0.0000 ug/Kg	0.00%#
22) 2-Butanone-d5	0.00	46	0	0.0000 ug/Kg	0.00%#
25) Chloroform-d	0.00	84	0	0.0000 ug/Kg	0.00%#
27) 1,2-Dichloroethane-d4	0.00	65	0	0.0000 ug/Kg	0.00%#
29) 1,4-Dioxane-d8	0.00	96	0	0.0000 ug/Kg	0.00%#
35) Benzene-d6	0.00	84	0	0.0000 ug/Kg	0.00%#
39) 1,2-Dichloropropane-d6	0.00	67	0	0.0000 ug/Kg	0.00%#
42) cis-1,3-Dichloropropene-d4	0.00	79	0	0.0000 ug/Kg	0.00%
44) trans-1,3-Dichloropropene-	0.00	79	0	0.0000 ug/Kg	0.00%#
49) Toluene-d8	0.00	98	0	0.0000 ug/Kg	0.00%#
52) 2-Hexanone-d5	0.00	63	0	0.0000 ug/Kg	0.00%#
61) 1,1,2,2-Tetrachloroethane-	0.00	84	0	0.0000 ug/Kg	0.00%#
67) 1,2-Dichlorobenzene-d4	16.51	152	1323	0.0815 ug/Kg	0.16%#
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	0.00	43		Not Detected	
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	0.00	84		Not Detected	
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	6.40	43	4428	1.0421 ug/Kg#	60
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

:01972

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X002.D
Acq Time : 06/11/2015 16:14 Operator: RJH
Sample : F9M82 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 16:38 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	0.00	91		Not Detected	
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

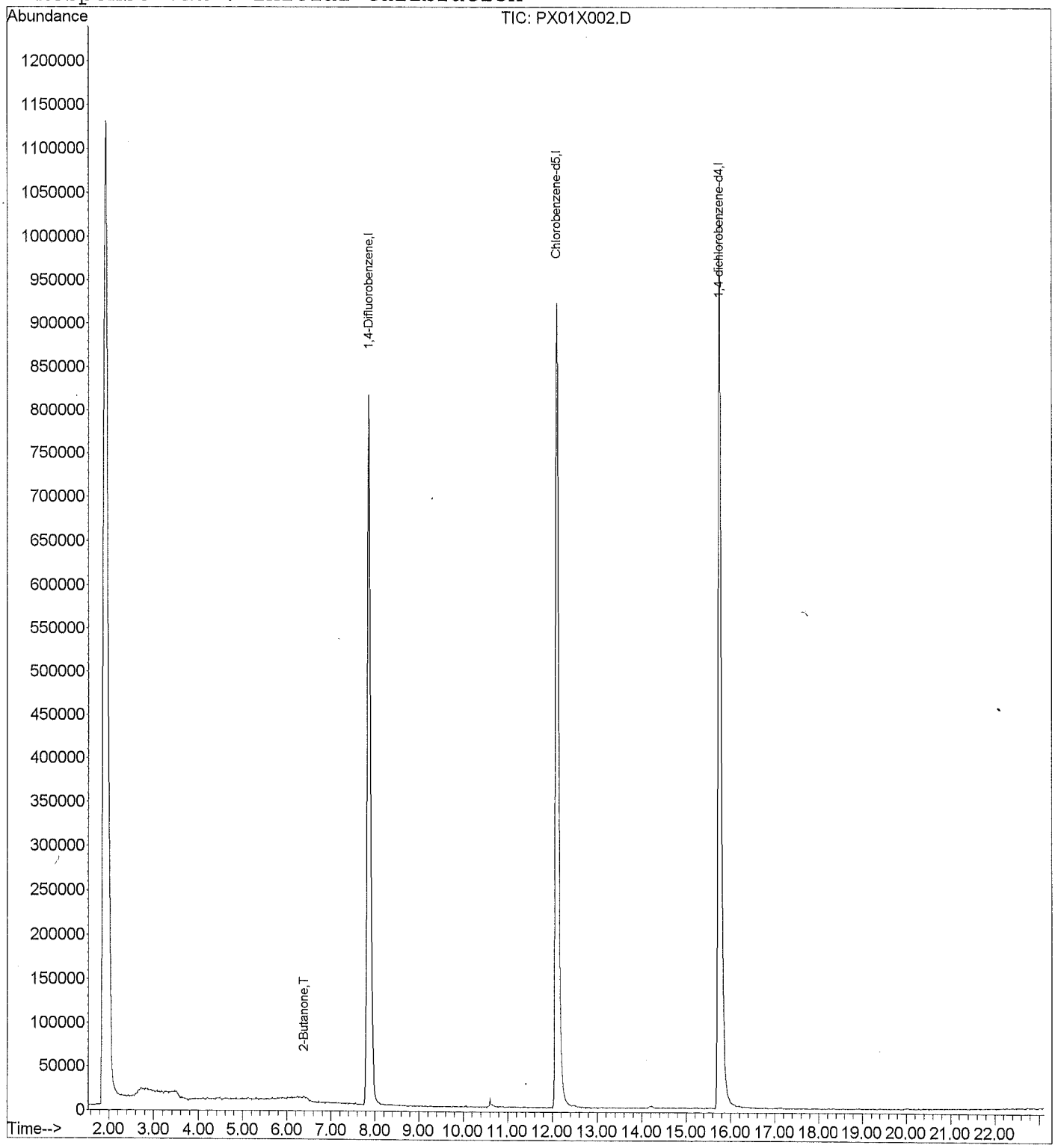
01073

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X002.D
Acq Time : 06/11/2015 16:14 Operator: RJH
Sample : F9M82 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 16:38 2015 Quant Results File: PCLPSD.RES

Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration



:01971

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X003.D
Acq Time : 06/11/2015 16:44 Operator: RJH
Sample : F9M83 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 17:07 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.77	114	2191649	50.0000 ug/Kg	79.19
30) Chlorobenzene-d5	12.07	117	1753142	50.0000 ug/Kg	80.19
62) 1,4-dichlorobenzene-d4	15.74	152	1084706	50.0000 ug/Kg	82.31
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	0.00	65	0	0.0000 ug/Kg	0.00%#
8) Chloroethane-d5	0.00	69	0	0.0000 ug/Kg	0.00%#
11) 1,1-Dichloroethene-d2	0.00	63	0	0.0000 ug/Kg	0.00%#
22) 2-Butanone-d5	0.00	46	0	0.0000 ug/Kg	0.00%#
25) Chloroform-d	0.00	84	0	0.0000 ug/Kg	0.00%#
27) 1,2-Dichloroethane-d4	0.00	65	0	0.0000 ug/Kg	0.00%#
29) 1,4-Dioxane-d8	0.00	96	0	0.0000 ug/Kg	0.00%#
35) Benzene-d6	0.00	84	0	0.0000 ug/Kg	0.00%#
39) 1,2-Dichloropropane-d6	0.00	67	0	0.0000 ug/Kg	0.00%#
42) cis-1,3-Dichloropropene-d4	0.00	79	0	0.0000 ug/Kg	0.00%
44) trans-1,3-Dichloropropene-	0.00	79	0	0.0000 ug/Kg	0.00%#
49) Toluene-d8	0.00	98	0	0.0000 ug/Kg	0.00%#
52) 2-Hexanone-d5	0.00	63	0	0.0000 ug/Kg	0.00%#
61) 1,1,2,2-Tetrachloroethane-	0.00	84	0	0.0000 ug/Kg	0.00%#
67) 1,2-Dichlorobenzene-d4	16.63	152	661	0.0342 ug/Kg	0.07%#
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.93	43	2381	0.6744 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	0.00	84		Not Detected	
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	6.24	43	1823	0.3657 ug/Kg#	60
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

01975

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X003.D
Acq Time : 06/11/2015 16:44 Operator: RJH
Sample : F9M83 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 17:07 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	0.00	91		Not Detected	
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

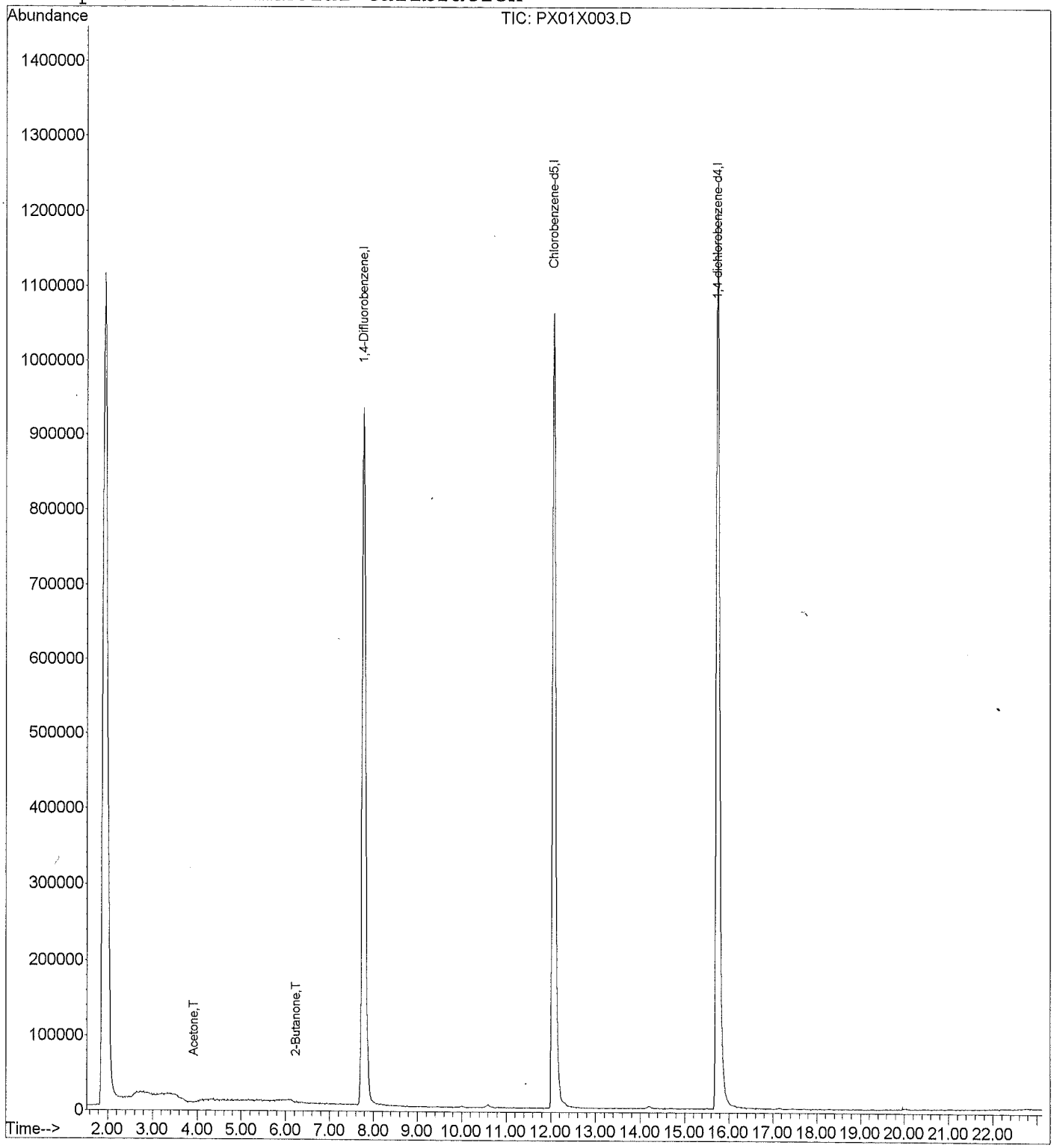
01978

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X003.D
Acq Time : 06/11/2015 16:44 Operator: RJH
Sample : F9M83 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 17:07 2015 Quant Results File: PCLPSD.RES

Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration



Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X004.D
Acq Time : 06/11/2015 17:15 Operator: RJH
Sample : F9M84 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 17:38 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.84	114	3948952	50.0000 ug/Kg	142.68
30) Chlorobenzene-d5	12.10	117	3232804	50.0000 ug/Kg	147.87
62) 1,4-dichlorobenzene-d4	15.75	152	2020710	50.0000 ug/Kg	153.34
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	0.00	65	0	0.0000 ug/Kg	0.00%#
8) Chloroethane-d5	0.00	69	0	0.0000 ug/Kg	0.00%#
11) 1,1-Dichloroethene-d2	0.00	63	0	0.0000 ug/Kg	0.00%#
22) 2-Butanone-d5	0.00	46	0	0.0000 ug/Kg	0.00%#
25) Chloroform-d	0.00	84	0	0.0000 ug/Kg	0.00%#
27) 1,2-Dichloroethane-d4	0.00	65	0	0.0000 ug/Kg	0.00%#
29) 1,4-Dioxane-d8	0.00	96	0	0.0000 ug/Kg	0.00%#
35) Benzene-d6	0.00	84	0	0.0000 ug/Kg	0.00%#
39) 1,2-Dichloropropane-d6	0.00	67	0	0.0000 ug/Kg	0.00%#
42) cis-1,3-Dichloropropene-d4	0.00	79	0	0.0000 ug/Kg	0.00%
44) trans-1,3-Dichloropropene-	0.00	79	0	0.0000 ug/Kg	0.00%#
49) Toluene-d8	0.00	98	0	0.0000 ug/Kg	0.00%#
52) 2-Hexanone-d5	0.00	63	0	0.0000 ug/Kg	0.00%#
61) 1,1,2,2-Tetrachloroethane-	0.00	84	0	0.0000 ug/Kg	0.00%#
67) 1,2-Dichlorobenzene-d4	0.00	152	0	0.0000 ug/Kg	0.00%#
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	0.00	43		Not Detected	
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	0.00	84		Not Detected	
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	6.32	43	2717	0.3025 ug/Kg#	60
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

01979

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X004.D
Acq Time : 06/11/2015 17:15 Operator: RJH
Sample : F9M84 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 17:38 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	0.00	91		Not Detected	
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

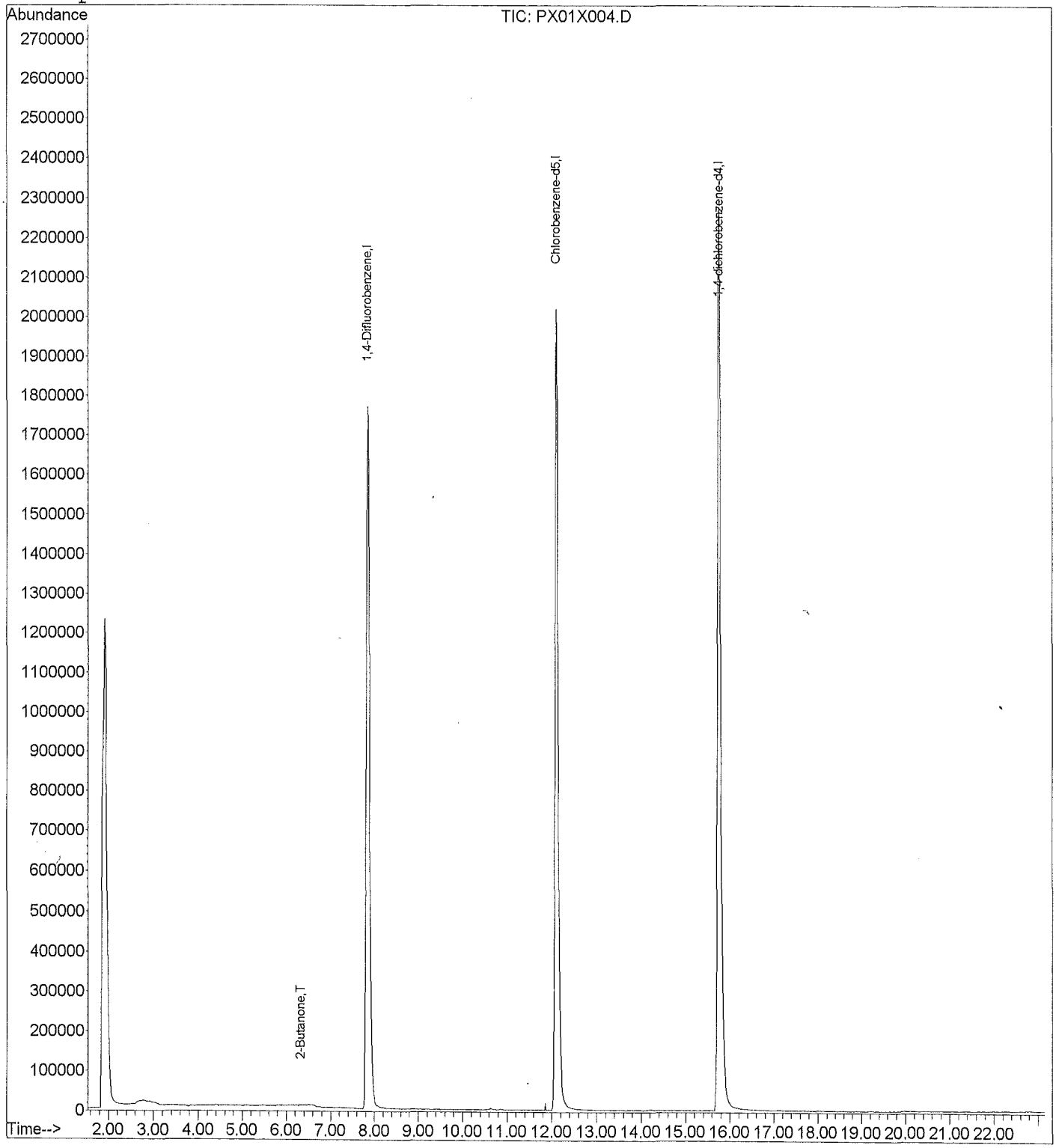
:01979

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X004.D
Acq Time : 06/11/2015 17:15 Operator: RJH
Sample : F9M84 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 17:38 2015 Quant Results File: PCLPSD.RES

Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration



:81988

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X005.D
Acq Time : 06/11/2015 17:44 Operator: RJH
Sample : F9M85 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 18:08 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.78	114	1980028	50.0000 ug/Kg	71.54
30) Chlorobenzene-d5	12.07	117	1587103	50.0000 ug/Kg	72.59
62) 1,4-dichlorobenzene-d4	15.73	152	979563	50.0000 ug/Kg	74.33
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	0.00	65	0	0.0000 ug/Kg	0.00%#
8) Chloroethane-d5	0.00	69	0	0.0000 ug/Kg	0.00%#
11) 1,1-Dichloroethene-d2	0.00	63	0	0.0000 ug/Kg	0.00%#
22) 2-Butanone-d5	0.00	46	0	0.0000 ug/Kg	0.00%#
25) Chloroform-d	0.00	84	0	0.0000 ug/Kg	0.00%#
27) 1,2-Dichloroethane-d4	0.00	65	0	0.0000 ug/Kg	0.00%#
29) 1,4-Dioxane-d8	0.00	96	0	0.0000 ug/Kg	0.00%#
35) Benzene-d6	0.00	84	0	0.0000 ug/Kg	0.00%#
39) 1,2-Dichloropropane-d6	0.00	67	0	0.0000 ug/Kg	0.00%#
42) cis-1,3-Dichloropropene-d4	0.00	79	0	0.0000 ug/Kg	0.00%
44) trans-1,3-Dichloropropene-	0.00	79	0	0.0000 ug/Kg	0.00%#
49) Toluene-d8	0.00	98	0	0.0000 ug/Kg	0.00%#
52) 2-Hexanone-d5	0.00	63	0	0.0000 ug/Kg	0.00%#
61) 1,1,2,2-Tetrachloroethane-	0.00	84	0	0.0000 ug/Kg	0.00%#
67) 1,2-Dichlorobenzene-d4	0.00	152	0	0.0000 ug/Kg	0.00%#
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.94	43	655	0.2054 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	0.00	84		Not Detected	
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	6.32	43	4422	0.9818 ug/Kg#	60
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

01891

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X005.D
Acq Time : 06/11/2015 17:44 Operator: RJH
Sample : F9M85 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 18:08 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	0.00	91		Not Detected	
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

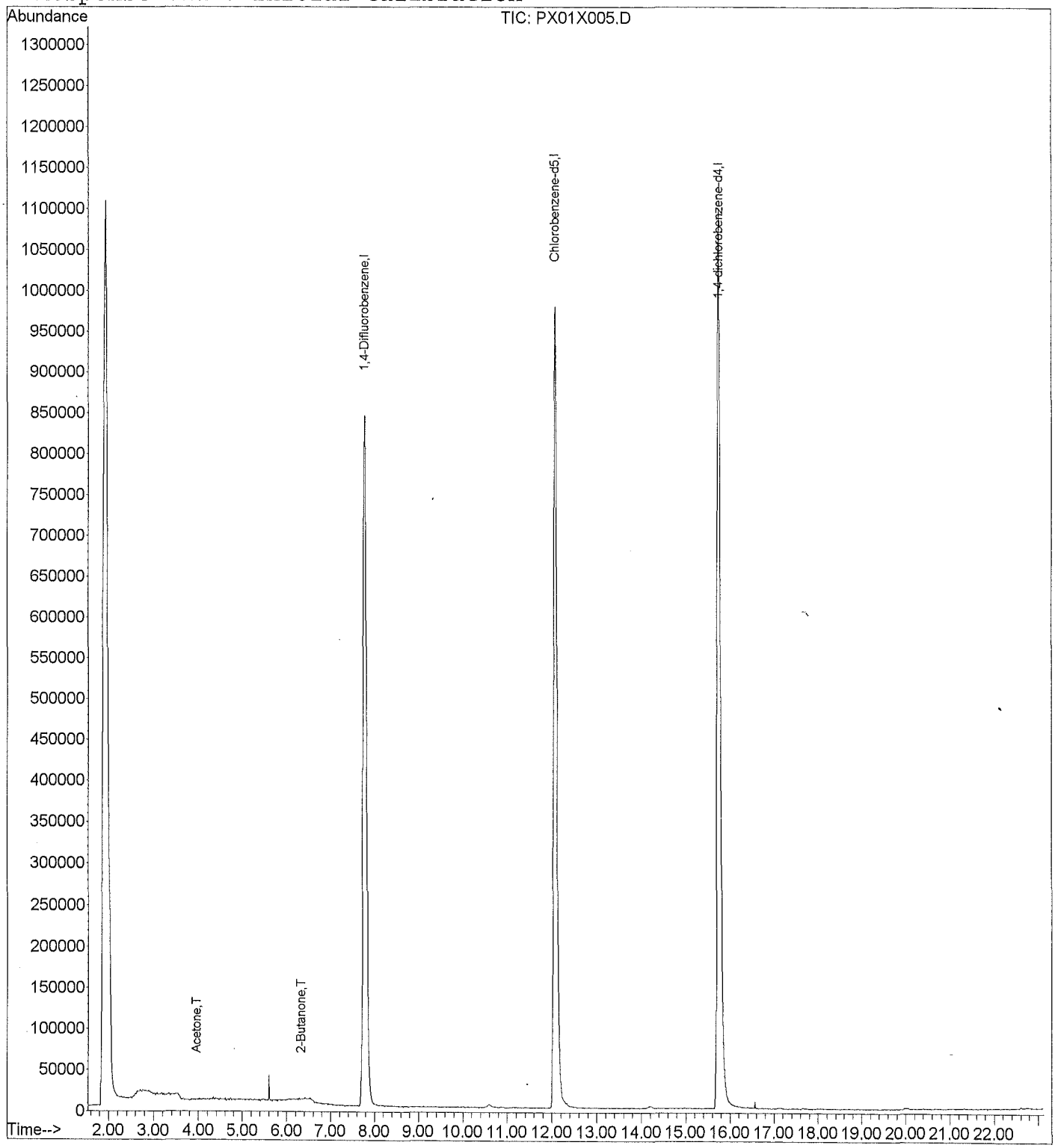
01992

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X005.D
Acq Time : 06/11/2015 17:44 Operator: RJH
Sample : F9M85 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 18:08 2015 Quant Results File: PCLPSD.RES

Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration



:61893

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X006.D
Acq Time : 06/11/2015 18:14 Operator: RJH
Sample : F9M86 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 18:37 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.76	114	2143245	50.0000 ug/Kg	77.44
30) Chlorobenzene-d5	12.06	117	1744711	50.0000 ug/Kg	79.80
62) 1,4-dichlorobenzene-d4	15.73	152	1081913	50.0000 ug/Kg	82.10
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	0.00	65	0	0.0000 ug/Kg	0.00%#
8) Chloroethane-d5	0.00	69	0	0.0000 ug/Kg	0.00%#
11) 1,1-Dichloroethene-d2	0.00	63	0	0.0000 ug/Kg	0.00%#
22) 2-Butanone-d5	0.00	46	0	0.0000 ug/Kg	0.00%#
25) Chloroform-d	0.00	84	0	0.0000 ug/Kg	0.00%#
27) 1,2-Dichloroethane-d4	0.00	65	0	0.0000 ug/Kg	0.00%#
29) 1,4-Dioxane-d8	0.00	96	0	0.0000 ug/Kg	0.00%#
35) Benzene-d6	0.00	84	0	0.0000 ug/Kg	0.00%#
39) 1,2-Dichloropropane-d6	0.00	67	0	0.0000 ug/Kg	0.00%#
42) cis-1,3-Dichloropropene-d4	0.00	79	0	0.0000 ug/Kg	0.00%
44) trans-1,3-Dichloropropene-	0.00	79	0	0.0000 ug/Kg	0.00%#
49) Toluene-d8	0.00	98	0	0.0000 ug/Kg	0.00%#
52) 2-Hexanone-d5	0.00	63	0	0.0000 ug/Kg	0.00%#
61) 1,1,2,2-Tetrachloroethane-	0.00	84	0	0.0000 ug/Kg	0.00%#
67) 1,2-Dichlorobenzene-d4	16.60	152	692	0.0359 ug/Kg	0.07%#
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	0.00	43		Not Detected	
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	4.37	43	4234	0.5205 ug/Kg#	57
16) Methylene chloride	0.00	84		Not Detected	
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

01994

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X006.D
Acq Time : 06/11/2015 18:14 Operator: RJH
Sample : F9M86 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 18:37 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	0.00	91		Not Detected	
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

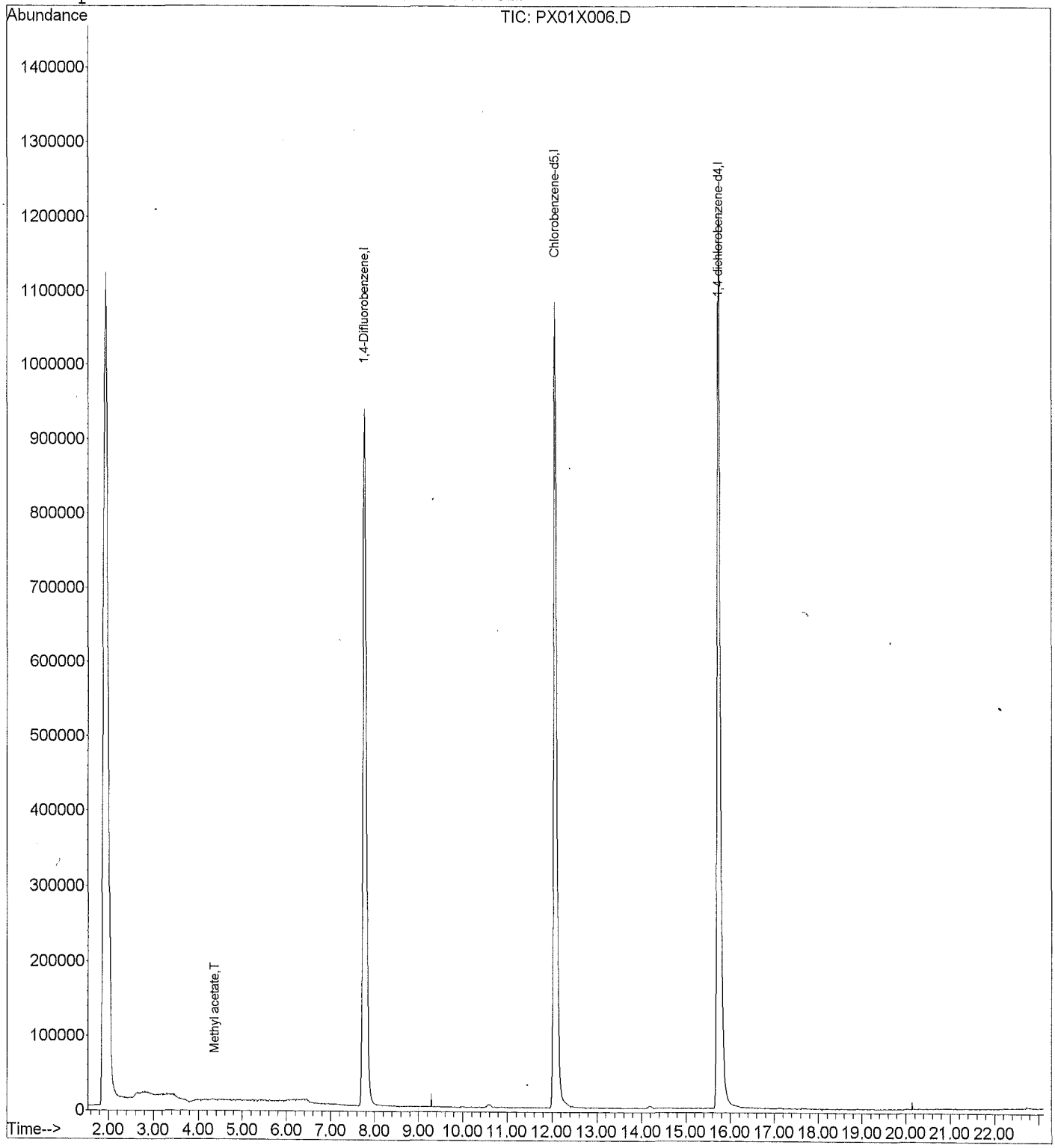
01995

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X006.D
Acq Time : 06/11/2015 18:14 Operator: RJH
Sample : F9M86 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 18:37 2015 Quant Results File: PCLPSD.RES

Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration



:01886

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X007.D
Acq Time : 06/11/2015 18:47 Operator: RJH
Sample : F9M87 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 19:10 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.85	114	2075186	50.0000 ug/Kg	74.98
30) Chlorobenzene-d5	12.09	117	1652734	50.0000 ug/Kg	75.60
62) 1,4-dichlorobenzene-d4	15.75	152	1024124	50.0000 ug/Kg	77.72
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	0.00	65	0	0.0000 ug/Kg	0.00%#
8) Chloroethane-d5	0.00	69	0	0.0000 ug/Kg	0.00%#
11) 1,1-Dichloroethene-d2	0.00	63	0	0.0000 ug/Kg	0.00%#
22) 2-Butanone-d5	0.00	46	0	0.0000 ug/Kg	0.00%#
25) Chloroform-d	0.00	84	0	0.0000 ug/Kg	0.00%#
27) 1,2-Dichloroethane-d4	0.00	65	0	0.0000 ug/Kg	0.00%#
29) 1,4-Dioxane-d8	0.00	96	0	0.0000 ug/Kg	0.00%#
35) Benzene-d6	0.00	84	0	0.0000 ug/Kg	0.00%#
39) 1,2-Dichloropropane-d6	0.00	67	0	0.0000 ug/Kg	0.00%#
42) cis-1,3-Dichloropropene-d4	0.00	79	0	0.0000 ug/Kg	0.00%
44) trans-1,3-Dichloropropene-	0.00	79	0	0.0000 ug/Kg	0.00%#
49) Toluene-d8	0.00	98	0	0.0000 ug/Kg	0.00%#
52) 2-Hexanone-d5	0.00	63	0	0.0000 ug/Kg	0.00%#
61) 1,1,2,2-Tetrachloroethane-	0.00	84	0	0.0000 ug/Kg	0.00%#
67) 1,2-Dichlorobenzene-d4	16.53	152	892	0.0489 ug/Kg	0.10%#
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	0.00	43		Not Detected	
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	4.50	43	2249	0.2856 ug/Kg#	57
16) Methylene chloride	0.00	84		Not Detected	
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

:01987

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X007.D
Acq Time : 06/11/2015 18:47 Operator: RJH
Sample : F9M87 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 19:10 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	0.00	91		Not Detected	
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

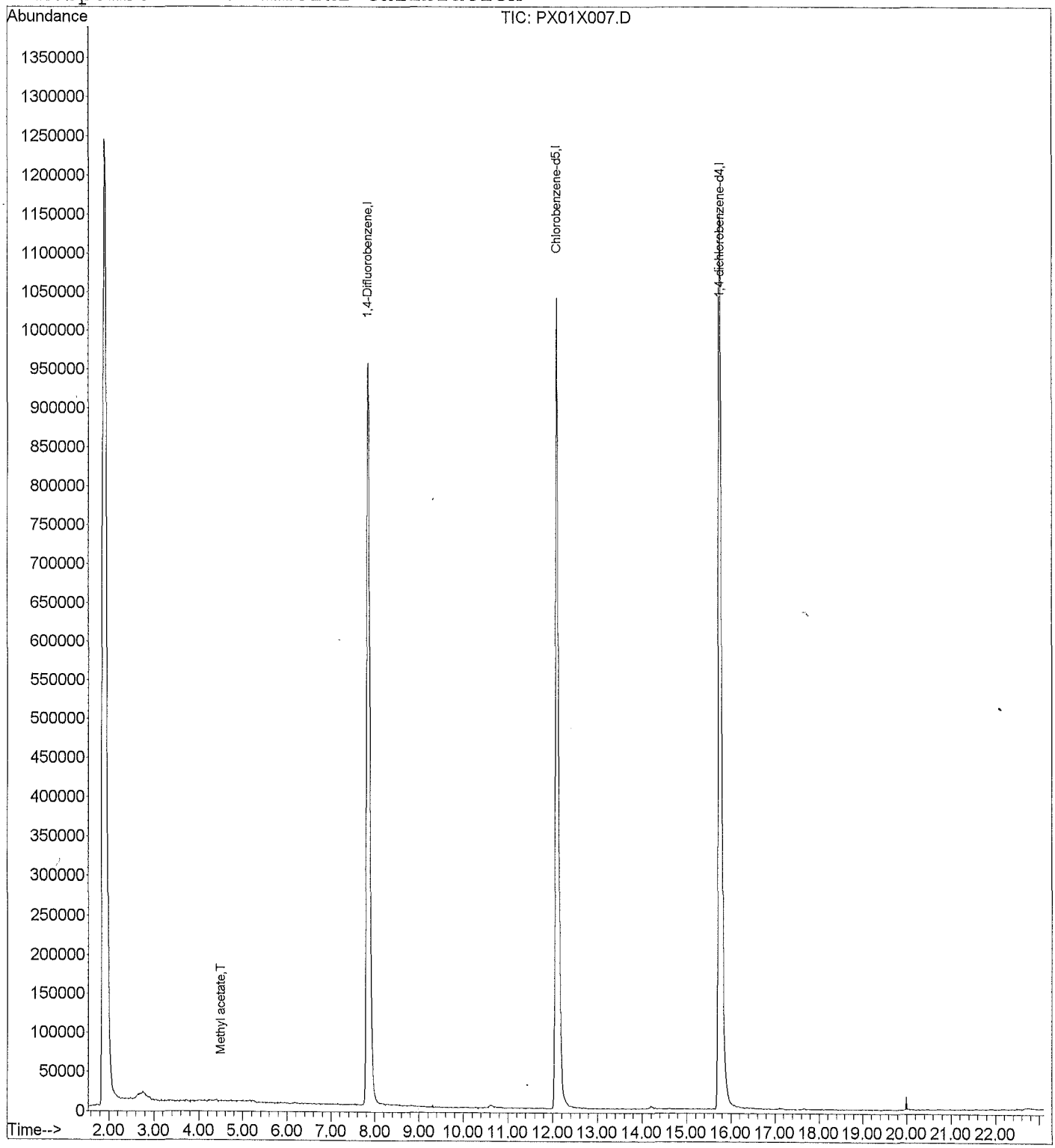
:01999

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X007.D
Acq Time : 06/11/2015 18:47 Operator: RJH
Sample : F9M87 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 19:10 2015 Quant Results File: PCLPSD.RES

Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration



:81989

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X008.D
Acq Time : 06/11/2015 19:16 Operator: RJH
Sample : F9M88 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 19:40 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.84	114	1847653	50.0000 ug/Kg	66.76
30) Chlorobenzene-d5	12.09	117	1465614	50.0000 ug/Kg	67.04
62) 1,4-dichlorobenzene-d4	15.73	152	914873	50.0000 ug/Kg	69.42
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	0.00	65	0	0.0000 ug/Kg	0.00%#
8) Chloroethane-d5	0.00	69	0	0.0000 ug/Kg	0.00%#
11) 1,1-Dichloroethene-d2	0.00	63	0	0.0000 ug/Kg	0.00%#
22) 2-Butanone-d5	0.00	46	0	0.0000 ug/Kg	0.00%#
25) Chloroform-d	0.00	84	0	0.0000 ug/Kg	0.00%#
27) 1,2-Dichloroethane-d4	0.00	65	0	0.0000 ug/Kg	0.00%#
29) 1,4-Dioxane-d8	0.00	96	0	0.0000 ug/Kg	0.00%#
35) Benzene-d6	0.00	84	0	0.0000 ug/Kg	0.00%#
39) 1,2-Dichloropropane-d6	0.00	67	0	0.0000 ug/Kg	0.00%#
42) cis-1,3-Dichloropropene-d4	0.00	79	0	0.0000 ug/Kg	0.00%
44) trans-1,3-Dichloropropene-	0.00	79	0	0.0000 ug/Kg	0.00%#
49) Toluene-d8	0.00	98	0	0.0000 ug/Kg	0.00%#
52) 2-Hexanone-d5	0.00	63	0	0.0000 ug/Kg	0.00%#
61) 1,1,2,2-Tetrachloroethane-	0.00	84	0	0.0000 ug/Kg	0.00%#
67) 1,2-Dichlorobenzene-d4	0.00	152	0	0.0000 ug/Kg	0.00%#
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	3.00	94	1967	0.2130 ug/Kg#	10
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	0.00	43		Not Detected	
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	4.42	43	2076	0.2961 ug/Kg#	57
16) Methylene chloride	0.00	84		Not Detected	
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	6.19	43	1022	0.2432 ug/Kg#	60
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

21098

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X008.D
Acq Time : 06/11/2015 19:16 Operator: RJH
Sample : F9M88 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 19:40 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	0.00	91		Not Detected	
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

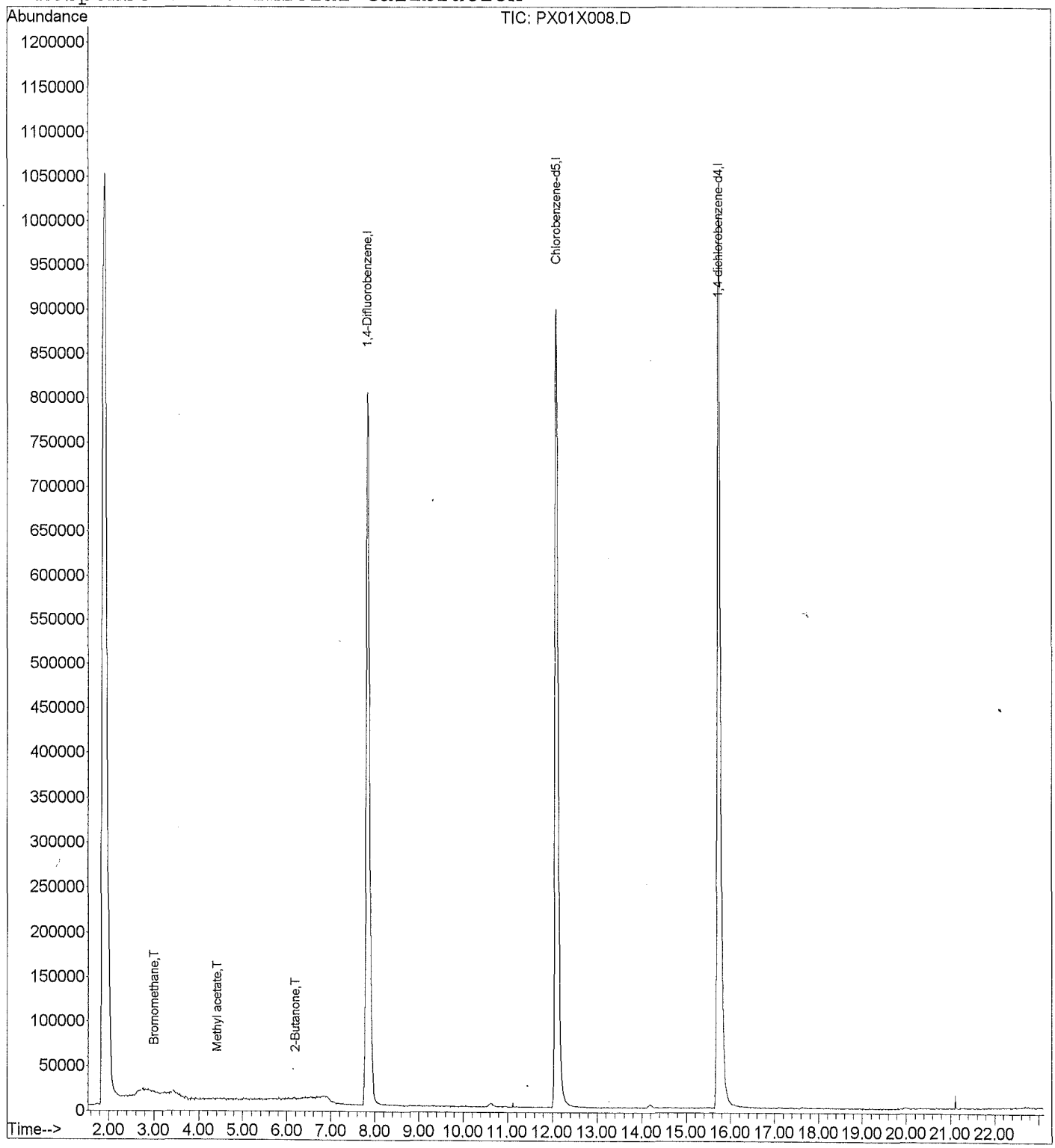
01991

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X008.D
Acq Time : 06/11/2015 19:16 Operator: RJH
Sample : F9M88 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 19:40 2015 Quant Results File: PCLPSD.RES

Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration



: 01992

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X009.D
Acq Time : 06/11/2015 19:46 Operator: RJH
Sample : F9M89 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 20:09 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.84	114	2187672	50.0000 ug/Kg	79.04
30) Chlorobenzene-d5	12.08	117	1793705	50.0000 ug/Kg	82.04
62) 1,4-dichlorobenzene-d4	15.72	152	1103131	50.0000 ug/Kg	83.71
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	0.00	65	0	0.0000 ug/Kg	0.00%#
8) Chloroethane-d5	0.00	69	0	0.0000 ug/Kg	0.00%#
11) 1,1-Dichloroethene-d2	0.00	63	0	0.0000 ug/Kg	0.00%#
22) 2-Butanone-d5	0.00	46	0	0.0000 ug/Kg	0.00%#
25) Chloroform-d	0.00	84	0	0.0000 ug/Kg	0.00%#
27) 1,2-Dichloroethane-d4	0.00	65	0	0.0000 ug/Kg	0.00%#
29) 1,4-Dioxane-d8	0.00	96	0	0.0000 ug/Kg	0.00%#
35) Benzene-d6	0.00	84	0	0.0000 ug/Kg	0.00%#
39) 1,2-Dichloropropane-d6	0.00	67	0	0.0000 ug/Kg	0.00%#
42) cis-1,3-Dichloropropene-d4	0.00	79	0	0.0000 ug/Kg	0.00%
44) trans-1,3-Dichloropropene-	0.00	79	0	0.0000 ug/Kg	0.00%#
49) Toluene-d8	0.00	98	0	0.0000 ug/Kg	0.00%#
52) 2-Hexanone-d5	0.00	63	0	0.0000 ug/Kg	0.00%#
61) 1,1,2,2-Tetrachloroethane-	0.00	84	0	0.0000 ug/Kg	0.00%#
67) 1,2-Dichlorobenzene-d4	16.58	152	662	0.0337 ug/Kg	0.07%#
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	0.00	43		Not Detected	
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	0.00	84		Not Detected	
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

:01893

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X009.D
Acq Time : 06/11/2015 19:46 Operator: RJH
Sample : F9M89 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 20:09 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	0.00	91		Not Detected	
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

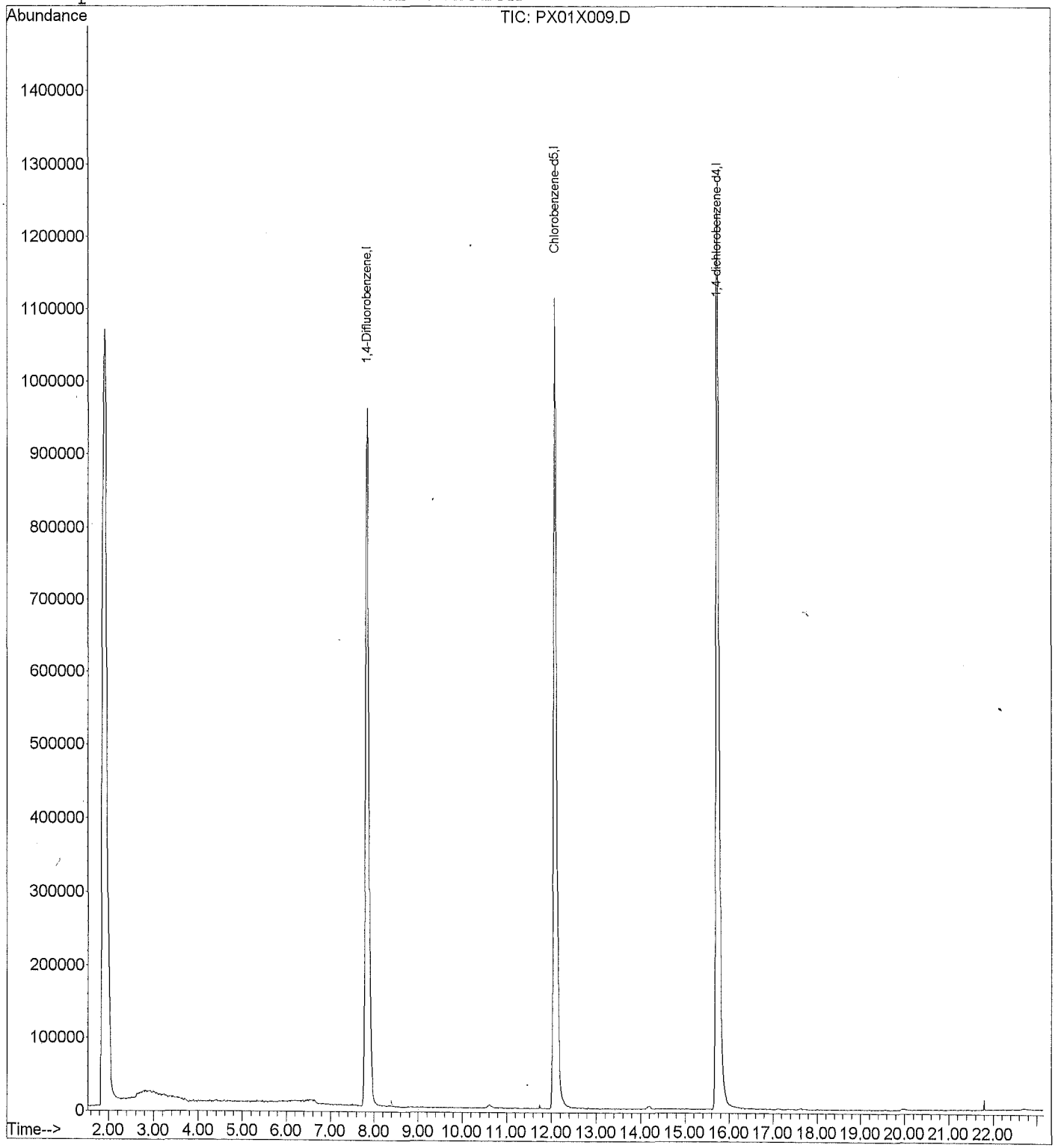
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X009.D
Acq Time : 06/11/2015 19:46 Operator: RJH
Sample : F9M89 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 20:09 2015 Quant Results File: PCLPSD.RES

Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration



Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X010.D
Acq Time : 06/11/2015 20:16 Operator: RJH
Sample : F9M90 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 20:39 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.83	114	3764776	50.0000 ug/Kg	136.03
30) Chlorobenzene-d5	12.07	117	3066884	50.0000 ug/Kg	140.28
62) 1,4-dichlorobenzene-d4	15.73	152	1922874	50.0000 ug/Kg	145.92
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	0.00	65	0	0.0000 ug/Kg	0.00%#
8) Chloroethane-d5	0.00	69	0	0.0000 ug/Kg	0.00%#
11) 1,1-Dichloroethene-d2	0.00	63	0	0.0000 ug/Kg	0.00%#
22) 2-Butanone-d5	0.00	46	0	0.0000 ug/Kg	0.00%#
25) Chloroform-d	0.00	84	0	0.0000 ug/Kg	0.00%#
27) 1,2-Dichloroethane-d4	0.00	65	0	0.0000 ug/Kg	0.00%#
29) 1,4-Dioxane-d8	0.00	96	0	0.0000 ug/Kg	0.00%#
35) Benzene-d6	0.00	84	0	0.0000 ug/Kg	0.00%#
39) 1,2-Dichloropropane-d6	0.00	67	0	0.0000 ug/Kg	0.00%#
42) cis-1,3-Dichloropropene-d4	0.00	79	0	0.0000 ug/Kg	0.00%
44) trans-1,3-Dichloropropene-	0.00	79	0	0.0000 ug/Kg	0.00%#
49) Toluene-d8	0.00	98	0	0.0000 ug/Kg	0.00%#
52) 2-Hexanone-d5	0.00	63	0	0.0000 ug/Kg	0.00%#
61) 1,1,2,2-Tetrachloroethane-	0.00	84	0	0.0000 ug/Kg	0.00%#
67) 1,2-Dichlorobenzene-d4	0.00	152	0	0.0000 ug/Kg	0.00%#
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	0.00	43		Not Detected	
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	0.00	84		Not Detected	
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	6.29	43	2179	0.2545 ug/Kg#	60
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

:01898

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X010.D
Acq Time : 06/11/2015 20:16 Operator: RJH
Sample : F9M90 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 20:39 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	0.00	91		Not Detected	
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

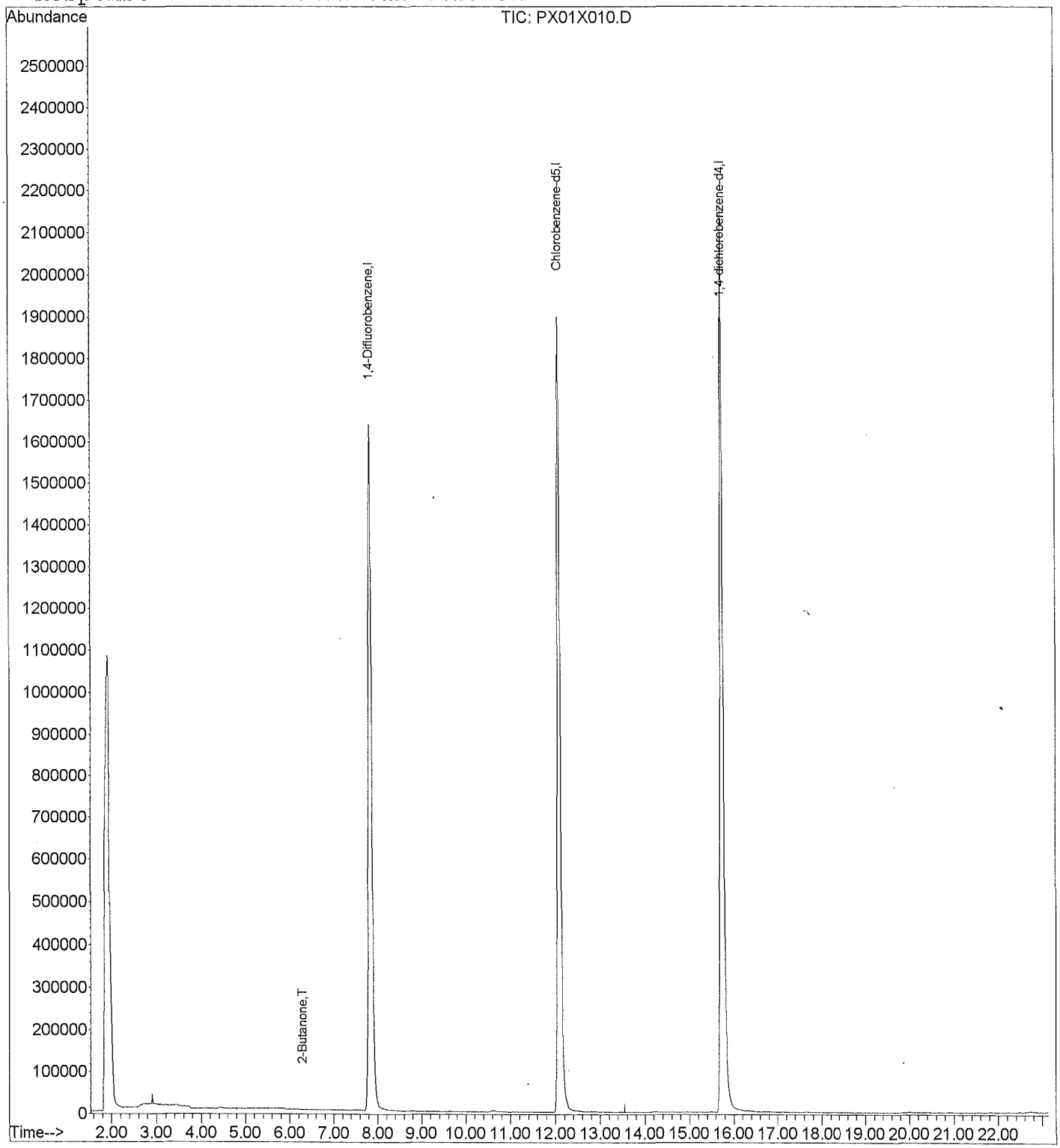
:01897

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X010.D
Acq Time : 06/11/2015 20:16 Operator: RJH
Sample : F9M90 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 20:39 2015 Quant Results File: PCLPSD.RES

Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration



Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X011.D
Acq Time : 06/11/2015 20:48 Operator: RJH
Sample : F9M91 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 21:11 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.83	114	2107696	50.0000 ug/Kg	76.15
30) Chlorobenzene-d5	12.08	117	1703108	50.0000 ug/Kg	77.90
62) 1,4-dichlorobenzene-d4	15.73	152	1041136	50.0000 ug/Kg	79.01
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	0.00	65	0	0.0000 ug/Kg	0.00%#
8) Chloroethane-d5	0.00	69	0	0.0000 ug/Kg	0.00%#
11) 1,1-Dichloroethene-d2	0.00	63	0	0.0000 ug/Kg	0.00%#
22) 2-Butanone-d5	0.00	46	0	0.0000 ug/Kg	0.00%#
25) Chloroform-d	0.00	84	0	0.0000 ug/Kg	0.00%#
27) 1,2-Dichloroethane-d4	0.00	65	0	0.0000 ug/Kg	0.00%#
29) 1,4-Dioxane-d8	0.00	96	0	0.0000 ug/Kg	0.00%#
35) Benzene-d6	0.00	84	0	0.0000 ug/Kg	0.00%#
39) 1,2-Dichloropropane-d6	0.00	67	0	0.0000 ug/Kg	0.00%#
42) cis-1,3-Dichloropropene-d4	0.00	79	0	0.0000 ug/Kg	0.00%
44) trans-1,3-Dichloropropene-	0.00	79	0	0.0000 ug/Kg	0.00%#
49) Toluene-d8	0.00	98	0	0.0000 ug/Kg	0.00%#
52) 2-Hexanone-d5	0.00	63	0	0.0000 ug/Kg	0.00%#
61) 1,1,2,2-Tetrachloroethane-	0.00	84	0	0.0000 ug/Kg	0.00%#
67) 1,2-Dichlorobenzene-d4	0.00	152	0	0.0000 ug/Kg	0.00%#
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	0.00	43		Not Detected	
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	0.00	84		Not Detected	
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	6.23	43	4077	0.8504 ug/Kg#	60
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

01899

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X011.D
Acq Time : 06/11/2015 20:48 Operator: RJH
Sample : F9M91 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 21:11 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	0.00	91		Not Detected	
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

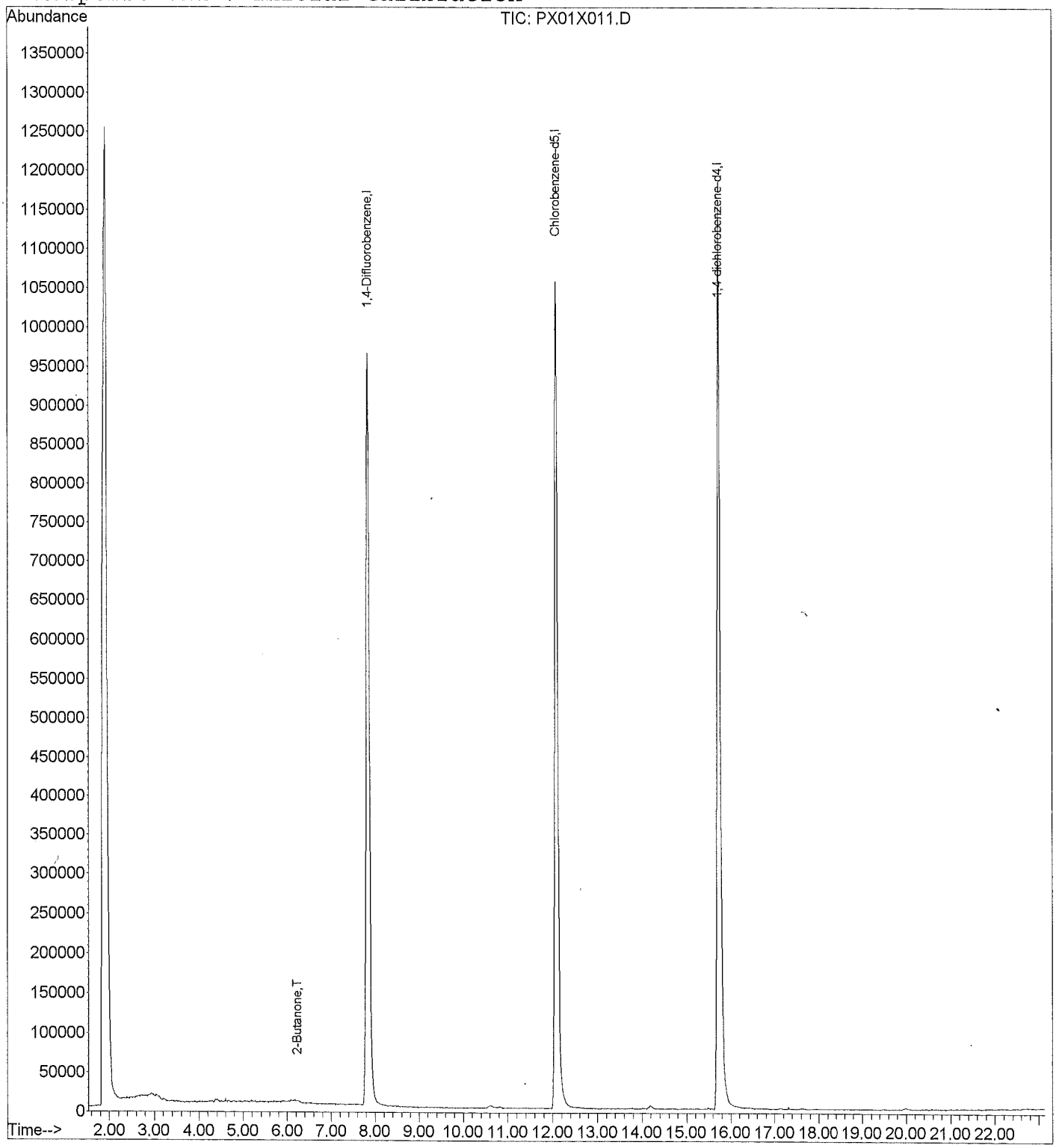
015988

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X011.D
Acq Time : 06/11/2015 20:48 Operator: RJH
Sample : F9M91 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 21:11 2015 Quant Results File: PCLPSD.RES

Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration



Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X014.D
Acq Time : 06/11/2015 21:18 Operator: RJH
Sample : F9M92 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 21:41 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.83	114	4062031	50.0000 ug/Kg	146.77
30) Chlorobenzene-d5	12.08	117	3313944	50.0000 ug/Kg	151.58
62) 1,4-dichlorobenzene-d4	15.72	152	2086435	50.0000 ug/Kg	158.33
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	0.00	65	0	0.0000 ug/Kg	0.00%#
8) Chloroethane-d5	0.00	69	0	0.0000 ug/Kg	0.00%#
11) 1,1-Dichloroethene-d2	0.00	63	0	0.0000 ug/Kg	0.00%#
22) 2-Butanone-d5	0.00	46	0	0.0000 ug/Kg	0.00%#
25) Chloroform-d	0.00	84	0	0.0000 ug/Kg	0.00%#
27) 1,2-Dichloroethane-d4	0.00	65	0	0.0000 ug/Kg	0.00%#
29) 1,4-Dioxane-d8	0.00	96	0	0.0000 ug/Kg	0.00%#
35) Benzene-d6	0.00	84	0	0.0000 ug/Kg	0.00%#
39) 1,2-Dichloropropane-d6	0.00	67	0	0.0000 ug/Kg	0.00%#
42) cis-1,3-Dichloropropene-d4	0.00	79	0	0.0000 ug/Kg	0.00%
44) trans-1,3-Dichloropropene-	0.00	79	0	0.0000 ug/Kg	0.00%#
49) Toluene-d8	0.00	98	0	0.0000 ug/Kg	0.00%#
52) 2-Hexanone-d5	0.00	63	0	0.0000 ug/Kg	0.00%#
61) 1,1,2,2-Tetrachloroethane-	0.00	84	0	0.0000 ug/Kg	0.00%#
67) 1,2-Dichlorobenzene-d4	16.86	152	1450	0.0391 ug/Kg	0.08%#
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	0.00	43		Not Detected	
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	4.37	43	7272	0.4717 ug/Kg#	57
16) Methylene chloride	0.00	84		Not Detected	
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

: 81982

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X014.D
Acq Time : 06/11/2015 21:18 Operator: RJH
Sample : F9M92 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 21:41 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	0.00	91		Not Detected	
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

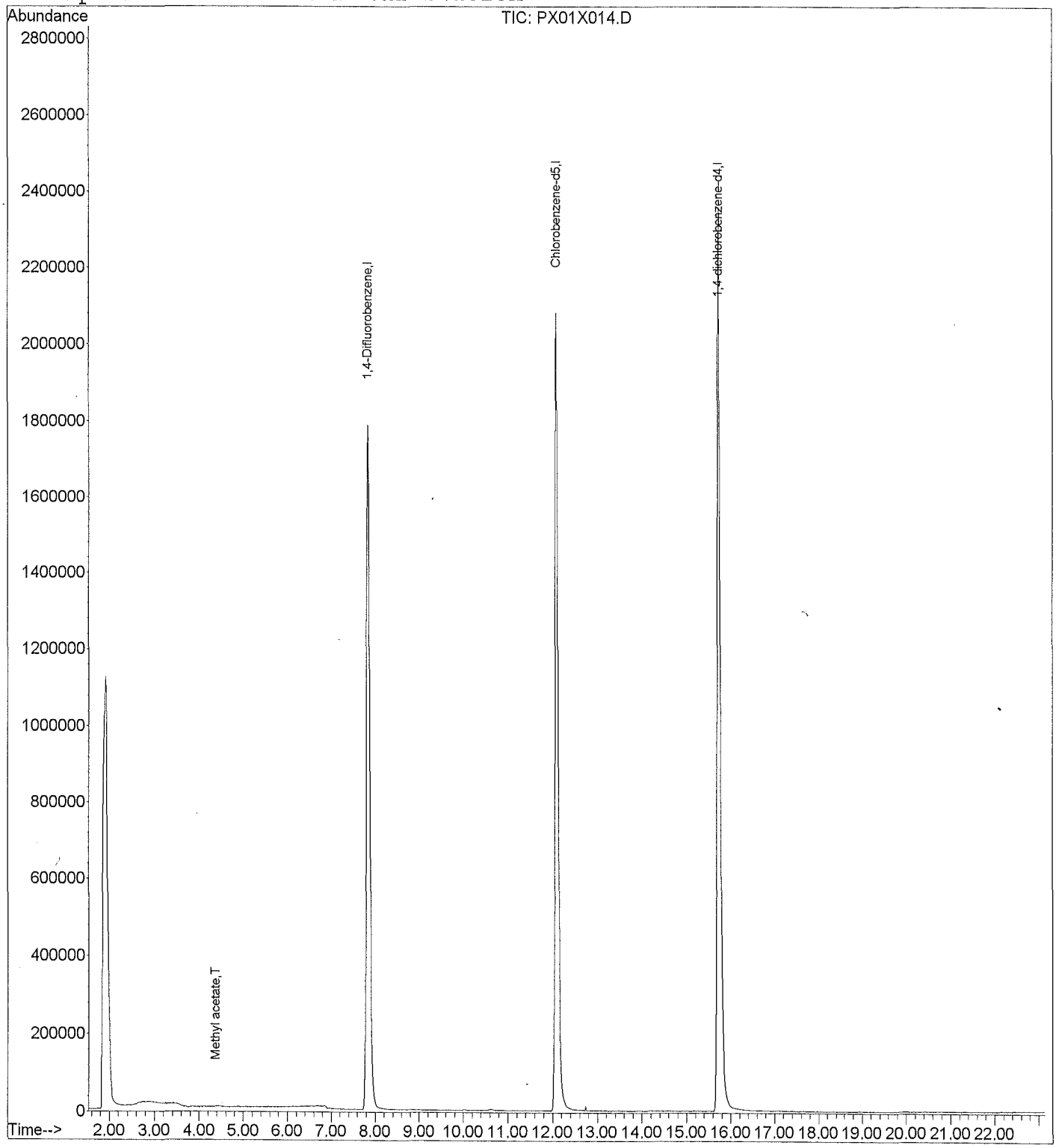
01383

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X014.D
Acq Time : 06/11/2015 21:18 Operator: RJH
Sample : F9M92 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 21:41 2015 Quant Results File: PCLPSD.RES

Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration



Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X015.D
Acq Time : 06/11/2015 21:48 Operator: RJH
Sample : F9M93 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 22:11 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.83	114	2255812	50.0000 ug/Kg	81.51
30) Chlorobenzene-d5	12.08	117	1839293	50.0000 ug/Kg	84.13
62) 1,4-dichlorobenzene-d4	15.72	152	1148957	50.0000 ug/Kg	87.19
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	0.00	65	0	0.0000 ug/Kg	0.00%#
8) Chloroethane-d5	0.00	69	0	0.0000 ug/Kg	0.00%#
11) 1,1-Dichloroethene-d2	0.00	63	0	0.0000 ug/Kg	0.00%#
22) 2-Butanone-d5	0.00	46	0	0.0000 ug/Kg	0.00%#
25) Chloroform-d	0.00	84	0	0.0000 ug/Kg	0.00%#
27) 1,2-Dichloroethane-d4	0.00	65	0	0.0000 ug/Kg	0.00%#
29) 1,4-Dioxane-d8	0.00	96	0	0.0000 ug/Kg	0.00%#
35) Benzene-d6	0.00	84	0	0.0000 ug/Kg	0.00%#
39) 1,2-Dichloropropane-d6	0.00	67	0	0.0000 ug/Kg	0.00%#
42) cis-1,3-Dichloropropene-d4	0.00	79	0	0.0000 ug/Kg	0.00%
44) trans-1,3-Dichloropropene-	0.00	79	0	0.0000 ug/Kg	0.00%#
49) Toluene-d8	0.00	98	0	0.0000 ug/Kg	0.00%#
52) 2-Hexanone-d5	0.00	63	0	0.0000 ug/Kg	0.00%#
61) 1,1,2,2-Tetrachloroethane-	0.00	84	0	0.0000 ug/Kg	0.00%#
67) 1,2-Dichlorobenzene-d4	0.00	152	0	0.0000 ug/Kg	0.00%#
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.88	43	7658	2.1074 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	4.37	43	2312	0.2701 ug/Kg#	57
16) Methylene chloride	0.00	84		Not Detected	
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	6.18	43	2082	0.4058 ug/Kg#	60
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

01985

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X015.D
Acq Time : 06/11/2015 21:48 Operator: RJH
Sample : F9M93 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 22:11 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	0.00	91		Not Detected	
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

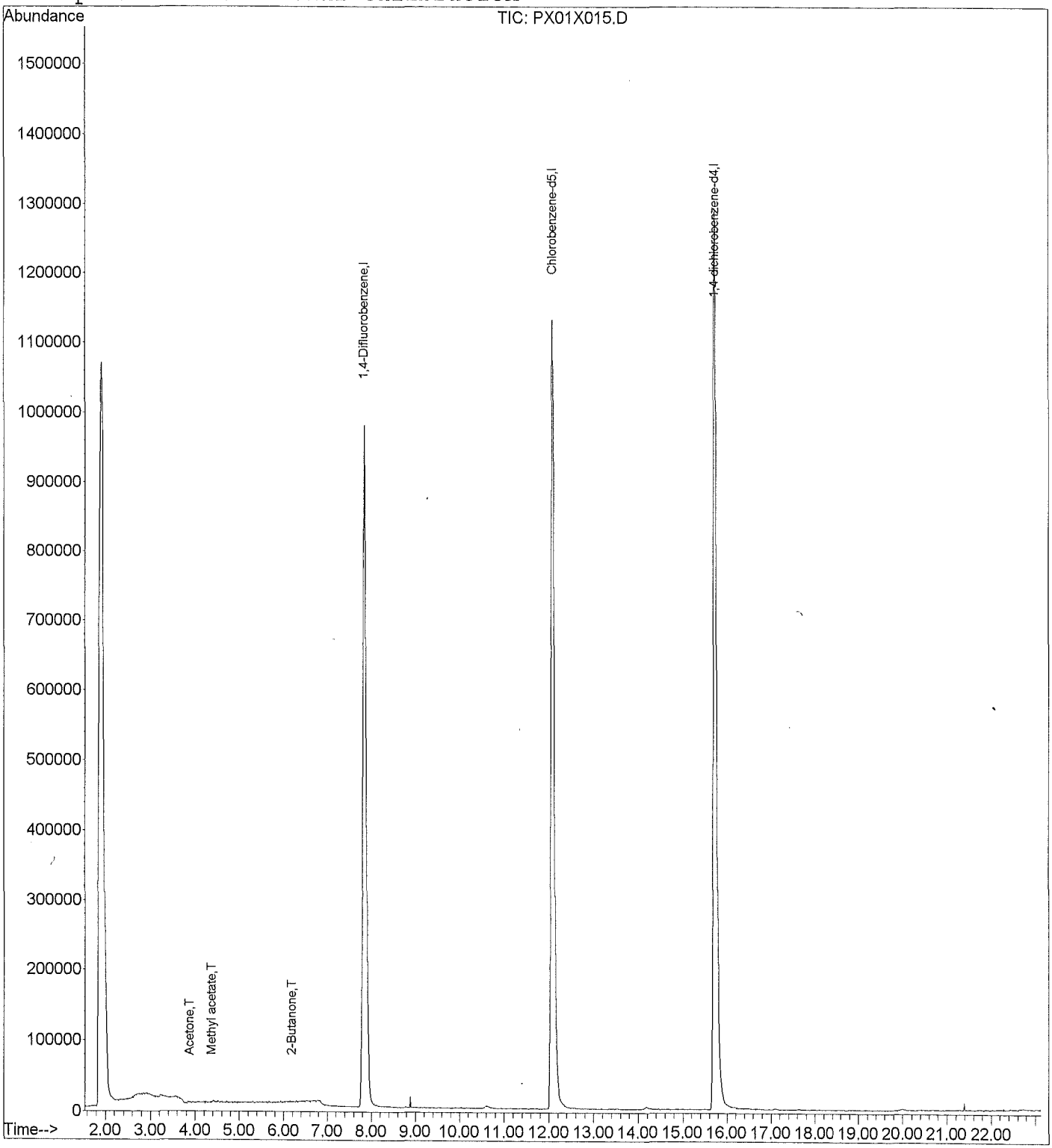
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X015.D
Acq Time : 06/11/2015 21:48 Operator: RJH
Sample : F9M93 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 22:11 2015 Quant Results File: PCLPSD.RES

Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration



01997

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X016.D
Acq Time : 06/11/2015 22:17 Operator: RJH
Sample : F9M94 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 22:40 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.84	114	2140506	50.0000	ug/Kg	77.34
30) Chlorobenzene-d5	12.07	117	1743794	50.0000	ug/Kg	79.76
62) 1,4-dichlorobenzene-d4	15.72	152	1068573	50.0000	ug/Kg	81.09
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	0.00	65	0	0.0000	ug/Kg	0.00%#
8) Chloroethane-d5	0.00	69	0	0.0000	ug/Kg	0.00%#
11) 1,1-Dichloroethene-d2	0.00	63	0	0.0000	ug/Kg	0.00%#
22) 2-Butanone-d5	0.00	46	0	0.0000	ug/Kg	0.00%#
25) Chloroform-d	0.00	84	0	0.0000	ug/Kg	0.00%#
27) 1,2-Dichloroethane-d4	0.00	65	0	0.0000	ug/Kg	0.00%#
29) 1,4-Dioxane-d8	0.00	96	0	0.0000	ug/Kg	0.00%#
35) Benzene-d6	0.00	84	0	0.0000	ug/Kg	0.00%#
39) 1,2-Dichloropropane-d6	0.00	67	0	0.0000	ug/Kg	0.00%#
42) cis-1,3-Dichloropropene-d4	0.00	79	0	0.0000	ug/Kg	0.00%
44) trans-1,3-Dichloropropene-	0.00	79	0	0.0000	ug/Kg	0.00%#
49) Toluene-d8	0.00	98	0	0.0000	ug/Kg	0.00%#
52) 2-Hexanone-d5	0.00	63	0	0.0000	ug/Kg	0.00%#
61) 1,1,2,2-Tetrachloroethane-	0.00	84	0	0.0000	ug/Kg	0.00%#
67) 1,2-Dichlorobenzene-d4	16.56	152	434	0.0228	ug/Kg	0.05%#
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected		
3) Chloromethane	0.00	50		Not Detected		
4) Vinyl chloride	0.00	62		Not Detected		
6) Bromomethane	0.00	94		Not Detected		
7) Chloroethane	0.00	64		Not Detected		
9) Trichlorofluoromethane	0.00	101		Not Detected		
10) 1,1-Dichloroethene	0.00	96		Not Detected		
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected		
13) Acetone	0.00	43		Not Detected		
14) Carbon disulfide	0.00	76		Not Detected		
15) Methyl acetate	4.36	43	3227	0.3973	ug/Kg#	57
16) Methylene chloride	0.00	84		Not Detected		
17) trans-1,2-Dichloroethene	0.00	96		Not Detected		
18) Methyl tert-butyl ether	0.00	73		Not Detected		
19) 1,1-Dichloroethane	0.00	63		Not Detected		
20) cis-1,2-Dichloroethene	0.00	96		Not Detected		
21) 2-Butanone	0.00	43		Not Detected		
23) Bromochloromethane	0.00	128		Not Detected		
24) Chloroform	0.00	83		Not Detected		

(#) = qualifier out of range (m) = manual integration

:01989

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X016.D
Acq Time : 06/11/2015 22:17 Operator: RJH
Sample : F9M94 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 22:40 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	0.00	91		Not Detected	
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

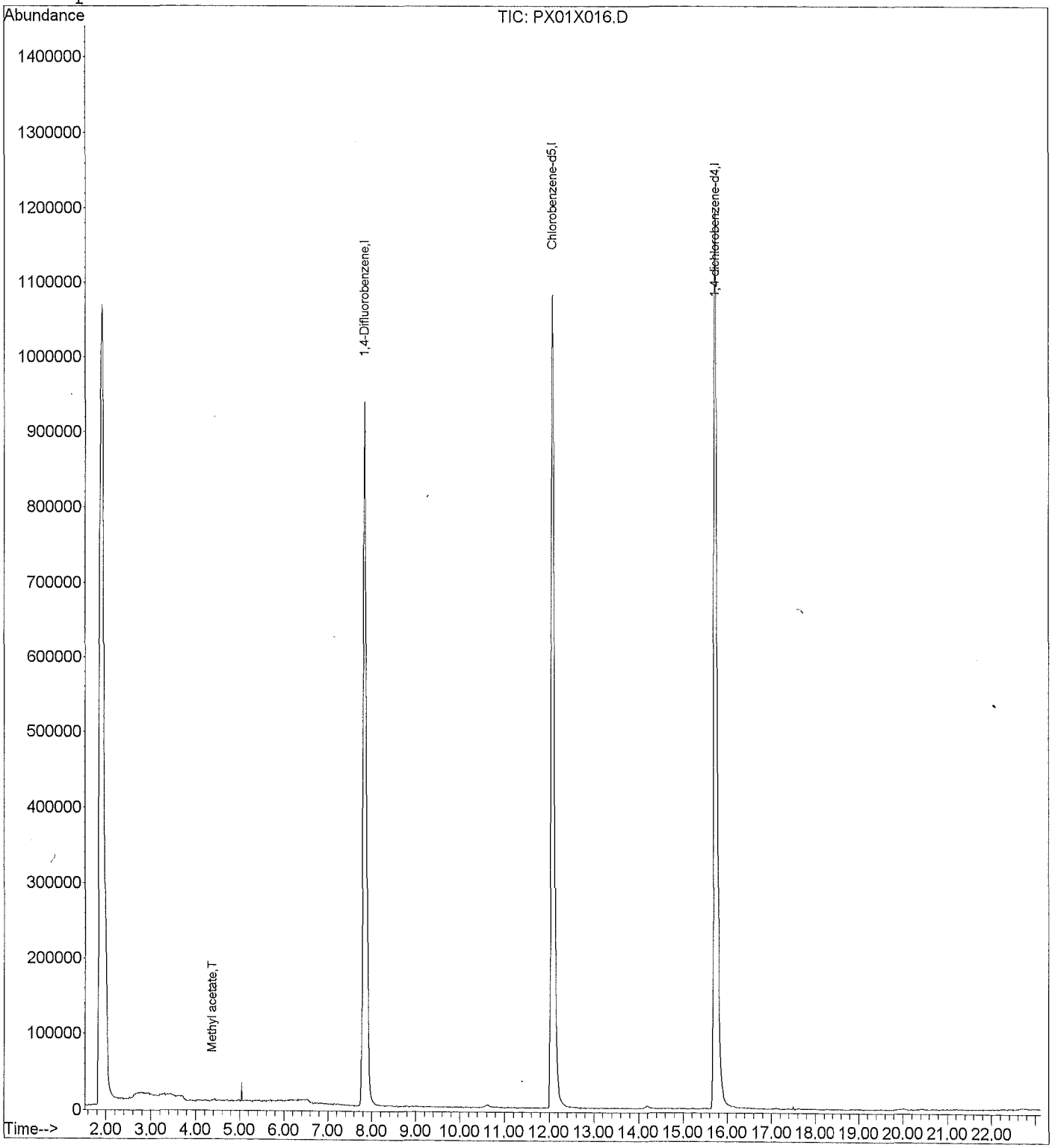
:01989

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X016.D
Acq Time : 06/11/2015 22:17 Operator: RJH
Sample : F9M94 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 22:40 2015 Quant Results File: PCLPSD.RES

Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration



Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X017.D
Acq Time : 06/11/2015 22:47 Operator: RJH
Sample : F9M95 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 23:10 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.81	114	2165254	50.0000	ug/Kg	78.23
30) Chlorobenzene-d5	12.07	117	1750501	50.0000	ug/Kg	80.07
62) 1,4-dichlorobenzene-d4	15.71	152	1082410	50.0000	ug/Kg	82.14
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	0.00	65	0	0.0000	ug/Kg	0.00%#
8) Chloroethane-d5	0.00	69	0	0.0000	ug/Kg	0.00%#
11) 1,1-Dichloroethene-d2	0.00	63	0	0.0000	ug/Kg	0.00%#
22) 2-Butanone-d5	0.00	46	0	0.0000	ug/Kg	0.00%#
25) Chloroform-d	0.00	84	0	0.0000	ug/Kg	0.00%#
27) 1,2-Dichloroethane-d4	0.00	65	0	0.0000	ug/Kg	0.00%#
29) 1,4-Dioxane-d8	0.00	96	0	0.0000	ug/Kg	0.00%#
35) Benzene-d6	0.00	84	0	0.0000	ug/Kg	0.00%#
39) 1,2-Dichloropropane-d6	0.00	67	0	0.0000	ug/Kg	0.00%#
42) cis-1,3-Dichloropropene-d4	0.00	79	0	0.0000	ug/Kg	0.00%
44) trans-1,3-Dichloropropene-	0.00	79	0	0.0000	ug/Kg	0.00%#
49) Toluene-d8	0.00	98	0	0.0000	ug/Kg	0.00%#
52) 2-Hexanone-d5	0.00	63	0	0.0000	ug/Kg	0.00%#
61) 1,1,2,2-Tetrachloroethane-	0.00	84	0	0.0000	ug/Kg	0.00%#
67) 1,2-Dichlorobenzene-d4	16.49	152	1646	0.0855	ug/Kg	0.17%#
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected		
3) Chloromethane	0.00	50		Not Detected		
4) Vinyl chloride	0.00	62		Not Detected		
6) Bromomethane	0.00	94		Not Detected		
7) Chloroethane	0.00	64		Not Detected		
9) Trichlorofluoromethane	0.00	101		Not Detected		
10) 1,1-Dichloroethene	0.00	96		Not Detected		
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected		
13) Acetone	0.00	43		Not Detected		
14) Carbon disulfide	0.00	76		Not Detected		
15) Methyl acetate	0.00	43		Not Detected		
16) Methylene chloride	0.00	84		Not Detected		
17) trans-1,2-Dichloroethene	0.00	96		Not Detected		
18) Methyl tert-butyl ether	0.00	73		Not Detected		
19) 1,1-Dichloroethane	0.00	63		Not Detected		
20) cis-1,2-Dichloroethene	0.00	96		Not Detected		
21) 2-Butanone	0.00	43		Not Detected		
23) Bromochloromethane	0.00	128		Not Detected		
24) Chloroform	0.00	83		Not Detected		

(#) = qualifier out of range (m) = manual integration

01911

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X017.D
Acq Time : 06/11/2015 22:47 Operator: RJH
Sample : F9M95 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 23:10 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	0.00	91		Not Detected	
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

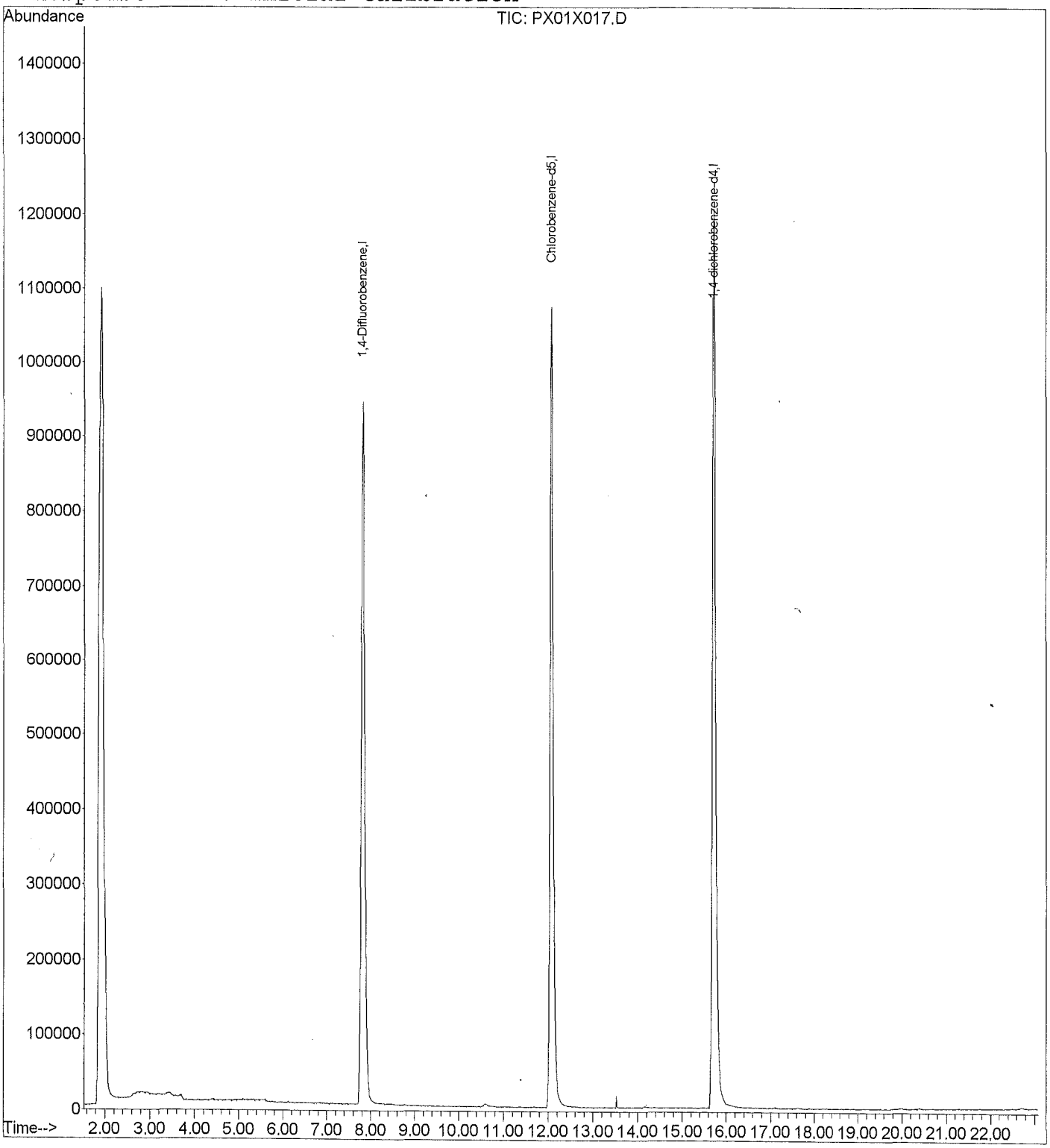
:01912

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X017.D
Acq Time : 06/11/2015 22:47 Operator: RJH
Sample : F9M95 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 23:10 2015 Quant Results File: PCLPSD.RES

Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration



:01913

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X018.D
Acq Time : 06/11/2015 23:19 Operator: RJH
Sample : F9M96 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 23:42 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.84	114	2263382	50.0000 ug/Kg	81.78
30) Chlorobenzene-d5	12.09	117	1799215	50.0000 ug/Kg	82.30
62) 1,4-dichlorobenzene-d4	15.73	152	1122614	50.0000 ug/Kg	85.19
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	0.00	65	0	0.0000 ug/Kg	0.00%#
8) Chloroethane-d5	0.00	69	0	0.0000 ug/Kg	0.00%#
11) 1,1-Dichloroethene-d2	0.00	63	0	0.0000 ug/Kg	0.00%#
22) 2-Butanone-d5	0.00	46	0	0.0000 ug/Kg	0.00%#
25) Chloroform-d	0.00	84	0	0.0000 ug/Kg	0.00%#
27) 1,2-Dichloroethane-d4	0.00	65	0	0.0000 ug/Kg	0.00%#
29) 1,4-Dioxane-d8	0.00	96	0	0.0000 ug/Kg	0.00%#
35) Benzene-d6	0.00	84	0	0.0000 ug/Kg	0.00%#
39) 1,2-Dichloropropane-d6	0.00	67	0	0.0000 ug/Kg	0.00%#
42) cis-1,3-Dichloropropene-d4	0.00	79	0	0.0000 ug/Kg	0.00%
44) trans-1,3-Dichloropropene-	0.00	79	0	0.0000 ug/Kg	0.00%#
49) Toluene-d8	0.00	98	0	0.0000 ug/Kg	0.00%#
52) 2-Hexanone-d5	0.00	63	0	0.0000 ug/Kg	0.00%#
61) 1,1,2,2-Tetrachloroethane-	0.00	84	0	0.0000 ug/Kg	0.00%#
67) 1,2-Dichlorobenzene-d4	16.51	152	2190	0.1096 ug/Kg	0.22%#
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.98	43	1675	0.4594 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	0.00	84		Not Detected	
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	6.32	43	2740	0.5322 ug/Kg#	60
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

21944

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X018.D
Acq Time : 06/11/2015 23:19 Operator: RJH
Sample : F9M96 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 23:42 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26) 1,2-Dichloroethane	0.00	62		Not Detected	
28) 1,4-Dioxane	0.00	88		Not Detected	
31) 1,1,1-Trichloroethane	0.00	97		Not Detected	
32) Cyclohexane	0.00	56		Not Detected	
33) Carbon tetrachloride	0.00	117		Not Detected	
34) Benzene	0.00	78		Not Detected	
36) Trichloroethene	0.00	95		Not Detected	
37) Methylcyclohexane	0.00	55		Not Detected	
38) 1,2-Dichloropropane	0.00	63		Not Detected	
40) Bromodichloromethane	0.00	83		Not Detected	
41) cis-1,3-Dichloropropene	0.00	75		Not Detected	
43) trans-1,3-Dichloropropene	0.00	75		Not Detected	
45) 1,1,2-Trichloroethane	0.00	97		Not Detected	
46) Dibromochloromethane	0.00	129		Not Detected	
47) 4-Methyl-2-pentanone	0.00	43		Not Detected	
48) Toluene	0.00	91		Not Detected	
50) Tetrachloroethene	0.00	164		Not Detected	
51) 2-Hexanone	0.00	43		Not Detected	
53) 1,2-Dibromoethane	0.00	107		Not Detected	
54) Chlorobenzene	0.00	112		Not Detected	
55) Ethylbenzene	0.00	91		Not Detected	
56) m,p-Xylene	0.00	106		Not Detected	
57) o-Xylene	0.00	106		Not Detected	
58) Styrene	0.00	104		Not Detected	
59) Isopropylbenzene	0.00	105		Not Detected	
60) 1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63) Bromoform	0.00	173		Not Detected	
64) 1,3-Dichlorobenzene	0.00	146		Not Detected	
65) 1,4-Dichlorobenzene	0.00	146		Not Detected	
66) 1,2-Dichlorobenzene	0.00	146		Not Detected	
68) 1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69) 1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70) 1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

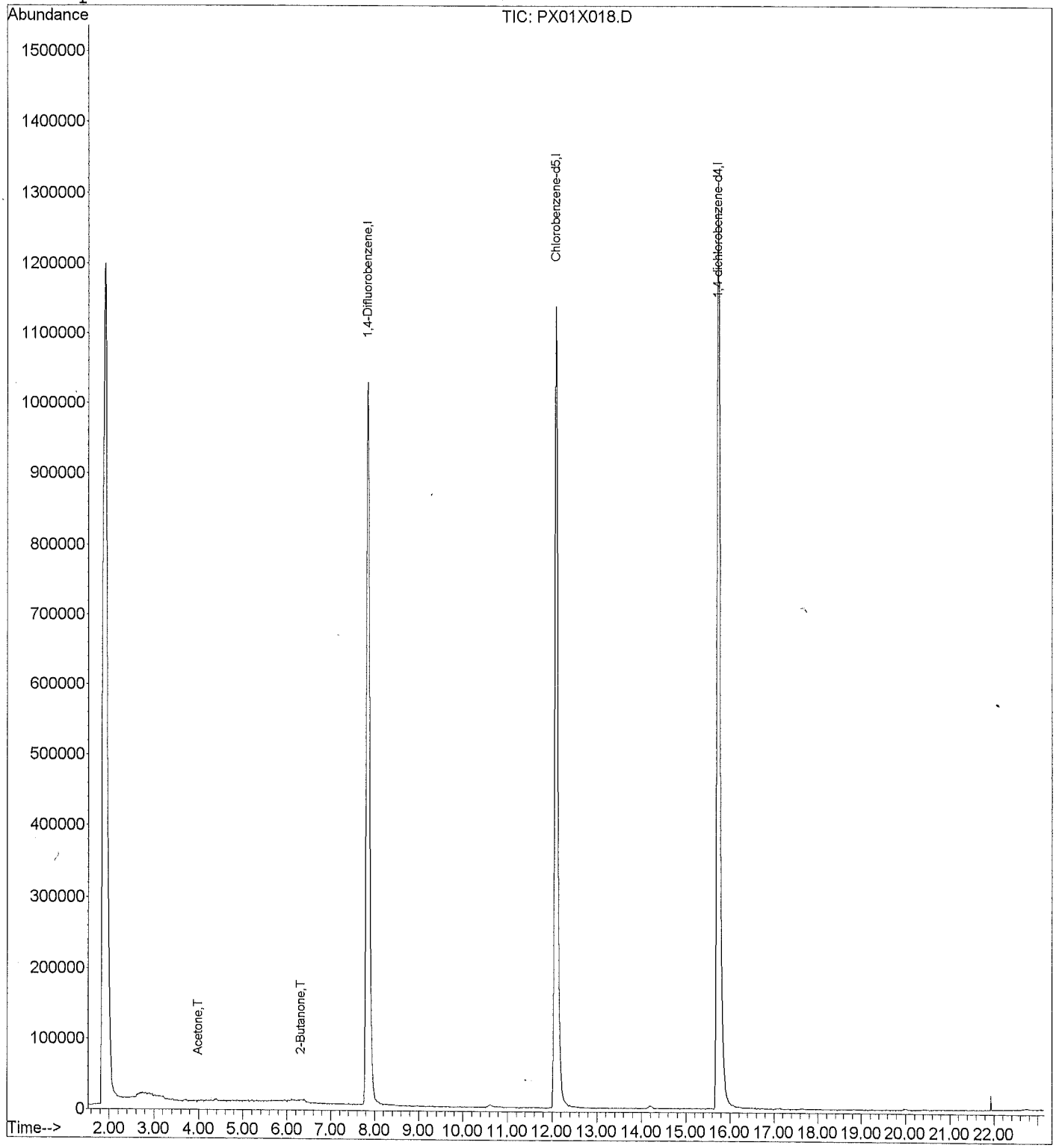
:01915

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X018.D
Acq Time : 06/11/2015 23:19 Operator: RJH
Sample : F9M96 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 11 23:42 2015 Quant Results File: PCLPSD.RES

Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration



:81918

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X019.D
Acq Time : 06/11/2015 23:48 Operator: RJH
Sample : F9M97 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 12 0:11 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.84	114	2125101	50.0000	ug/Kg	76.78
30) Chlorobenzene-d5	12.08	117	1722293	50.0000	ug/Kg	78.78
62) 1,4-dichlorobenzene-d4	15.72	152	1027739	50.0000	ug/Kg	77.99
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	0.00	65	0	0.0000	ug/Kg	0.00%#
8) Chloroethane-d5	0.00	69	0	0.0000	ug/Kg	0.00%#
11) 1,1-Dichloroethene-d2	0.00	63	0	0.0000	ug/Kg	0.00%#
22) 2-Butanone-d5	0.00	46	0	0.0000	ug/Kg	0.00%#
25) Chloroform-d	0.00	84	0	0.0000	ug/Kg	0.00%#
27) 1,2-Dichloroethane-d4	0.00	65	0	0.0000	ug/Kg	0.00%#
29) 1,4-Dioxane-d8	0.00	96	0	0.0000	ug/Kg	0.00%#
35) Benzene-d6	0.00	84	0	0.0000	ug/Kg	0.00%#
39) 1,2-Dichloropropane-d6	0.00	67	0	0.0000	ug/Kg	0.00%#
42) cis-1,3-Dichloropropene-d4	0.00	79	0	0.0000	ug/Kg	0.00%
44) trans-1,3-Dichloropropene-	0.00	79	0	0.0000	ug/Kg	0.00%#
49) Toluene-d8	0.00	98	0	0.0000	ug/Kg	0.00%#
52) 2-Hexanone-d5	0.00	63	0	0.0000	ug/Kg	0.00%#
61) 1,1,2,2-Tetrachloroethane-	0.00	84	0	0.0000	ug/Kg	0.00%#
67) 1,2-Dichlorobenzene-d4	16.54	152	457	0.0250	ug/Kg	0.05%#
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected		
3) Chloromethane	0.00	50		Not Detected		
4) Vinyl chloride	0.00	62		Not Detected		
6) Bromomethane	0.00	94		Not Detected		
7) Chloroethane	0.00	64		Not Detected		
9) Trichlorofluoromethane	0.00	101		Not Detected		
10) 1,1-Dichloroethene	0.00	96		Not Detected		
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected		
13) Acetone	0.00	43		Not Detected		
14) Carbon disulfide	0.00	76		Not Detected		
15) Methyl acetate	0.00	43		Not Detected		
16) Methylene chloride	4.43	84	3007	0.2006	ug/Kg#	69
17) trans-1,2-Dichloroethene	0.00	96		Not Detected		
18) Methyl tert-butyl ether	0.00	73		Not Detected		
19) 1,1-Dichloroethane	0.00	63		Not Detected		
20) cis-1,2-Dichloroethene	0.00	96		Not Detected		
21) 2-Butanone	6.32	43	1088	0.2251	ug/Kg#	60
23) Bromochloromethane	0.00	128		Not Detected		
24) Chloroform	0.00	83		Not Detected		

(#) = qualifier out of range (m) = manual integration

:01917

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X019.D
Acq Time : 06/11/2015 23:48 Operator: RJH
Sample : F9M97 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 12 0:11 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	0.00	91		Not Detected	
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

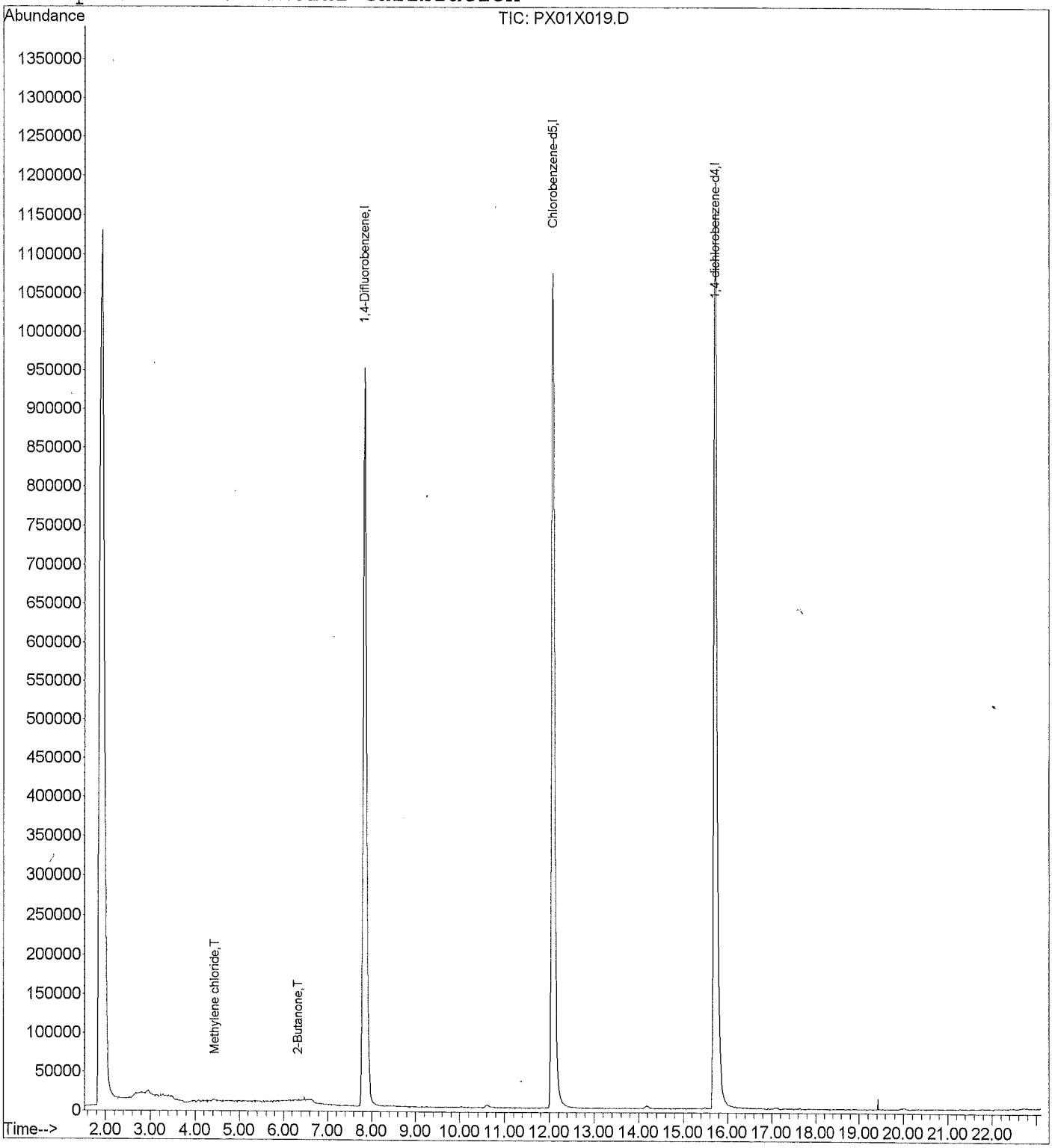
:01918

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X019.D
Acq Time : 06/11/2015 23:48 Operator: RJH
Sample : F9M97 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 12 0:11 2015 Quant Results File: PCLPSD.RES

Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration



:61919

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X020.D
Acq Time : 06/12/2015 00:17 Operator: RJH
Sample : F9M98 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 12 0:41 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.85	114	2174316	50.0000 ug/Kg	78.56
30) Chlorobenzene-d5	12.08	117	1790001	50.0000 ug/Kg	81.87
62) 1,4-dichlorobenzene-d4	15.72	152	1099150	50.0000 ug/Kg	83.41
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	0.00	65	0	0.0000 ug/Kg	0.00%#
8) Chloroethane-d5	0.00	69	0	0.0000 ug/Kg	0.00%#
11) 1,1-Dichloroethene-d2	0.00	63	0	0.0000 ug/Kg	0.00%#
22) 2-Butanone-d5	0.00	46	0	0.0000 ug/Kg	0.00%#
25) Chloroform-d	0.00	84	0	0.0000 ug/Kg	0.00%#
27) 1,2-Dichloroethane-d4	0.00	65	0	0.0000 ug/Kg	0.00%#
29) 1,4-Dioxane-d8	0.00	96	0	0.0000 ug/Kg	0.00%#
35) Benzene-d6	0.00	84	0	0.0000 ug/Kg	0.00%#
39) 1,2-Dichloropropane-d6	0.00	67	0	0.0000 ug/Kg	0.00%#
42) cis-1,3-Dichloropropene-d4	0.00	79	0	0.0000 ug/Kg	0.00%
44) trans-1,3-Dichloropropene-	0.00	79	0	0.0000 ug/Kg	0.00%#
49) Toluene-d8	0.00	98	0	0.0000 ug/Kg	0.00%#
52) 2-Hexanone-d5	0.00	63	0	0.0000 ug/Kg	0.00%#
61) 1,1,2,2-Tetrachloroethane-	0.00	84	0	0.0000 ug/Kg	0.00%#
67) 1,2-Dichlorobenzene-d4	0.00	152	0	0.0000 ug/Kg	0.00%#
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.89	43	7129	2.0354 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	4.39	43	2580	0.3127 ug/Kg#	57
16) Methylene chloride	0.00	84		Not Detected	
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	6.47	43	2015	0.4074 ug/Kg#	60
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

01928

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X020.D
Acq Time : 06/12/2015 00:17 Operator: RJH
Sample : F9M98 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 12 0:41 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	0.00	91		Not Detected	
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

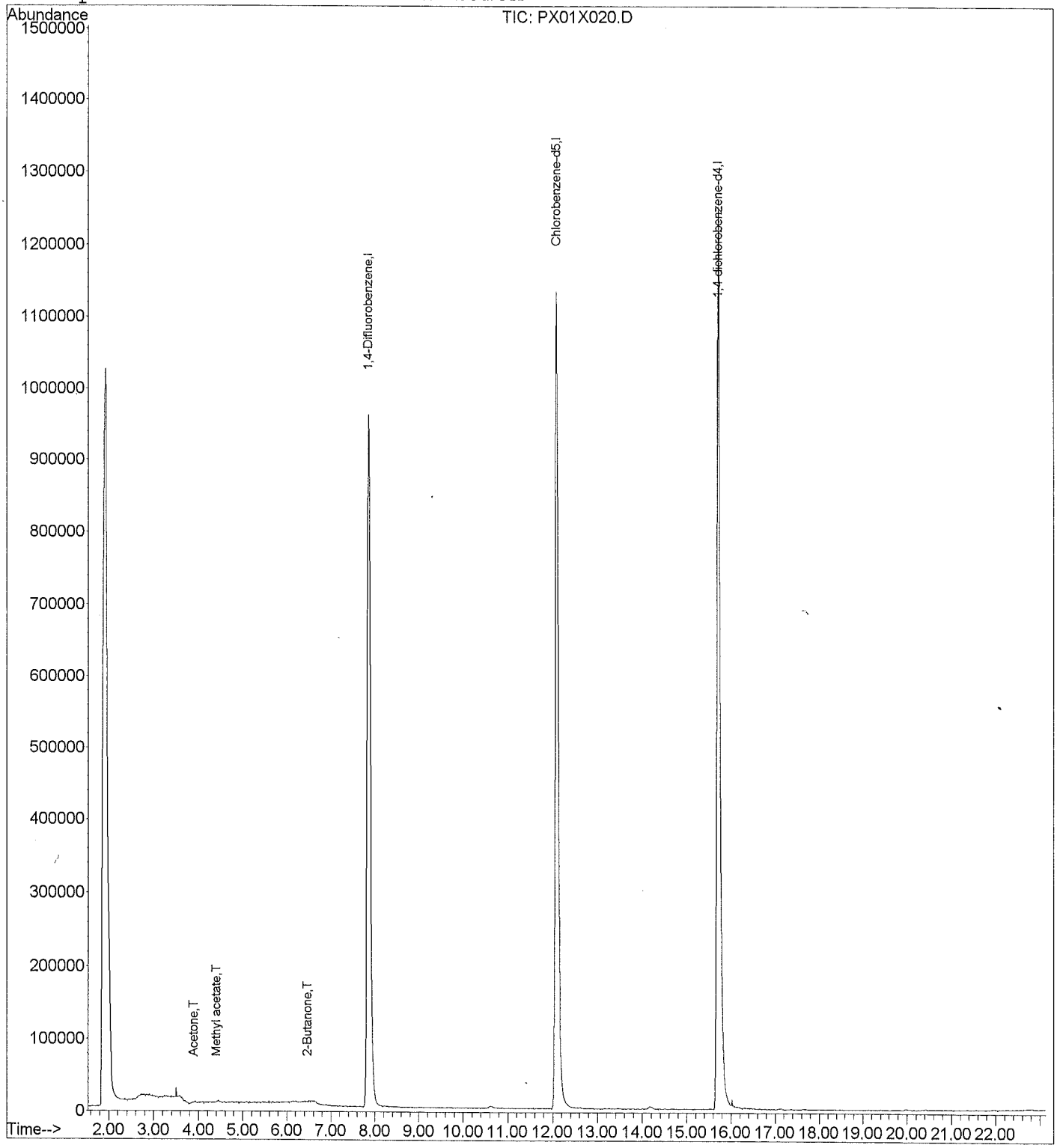
01921

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X020.D
Acq Time : 06/12/2015 00:17 Operator: RJH
Sample : F9M98 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 12 0:41 2015 Quant Results File: PCLPSD.RES

Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration



:91932

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X021.D
Acq Time : 06/12/2015 00:46 Operator: RJH
Sample : F9M99 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 12 1:10 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.85	114	2008515	50.0000 ug/Kg	72.57
30) Chlorobenzene-d5	12.08	117	1616833	50.0000 ug/Kg	73.95
62) 1,4-dichlorobenzene-d4	15.71	152	974457	50.0000 ug/Kg	73.95
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	0.00	65	0	0.0000 ug/Kg	0.00%#
8) Chloroethane-d5	0.00	69	0	0.0000 ug/Kg	0.00%#
11) 1,1-Dichloroethene-d2	0.00	63	0	0.0000 ug/Kg	0.00%#
22) 2-Butanone-d5	0.00	46	0	0.0000 ug/Kg	0.00%#
25) Chloroform-d	0.00	84	0	0.0000 ug/Kg	0.00%#
27) 1,2-Dichloroethane-d4	0.00	65	0	0.0000 ug/Kg	0.00%#
29) 1,4-Dioxane-d8	0.00	96	0	0.0000 ug/Kg	0.00%#
35) Benzene-d6	0.00	84	0	0.0000 ug/Kg	0.00%#
39) 1,2-Dichloropropane-d6	0.00	67	0	0.0000 ug/Kg	0.00%#
42) cis-1,3-Dichloropropene-d4	0.00	79	0	0.0000 ug/Kg	0.00%
44) trans-1,3-Dichloropropene-	0.00	79	0	0.0000 ug/Kg	0.00%#
49) Toluene-d8	0.00	98	0	0.0000 ug/Kg	0.00%#
52) 2-Hexanone-d5	0.00	63	0	0.0000 ug/Kg	0.00%#
61) 1,1,2,2-Tetrachloroethane-	0.00	84	0	0.0000 ug/Kg	0.00%#
67) 1,2-Dichlorobenzene-d4	16.51	152	920	0.0531 ug/Kg	0.11%#
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.89	43	7962	2.4608 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	4.40	43	3424	0.4492 ug/Kg#	57
16) Methylene chloride	4.44	84	6461	0.4560 ug/Kg	94
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

:01923

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X021.D
Acq Time : 06/12/2015 00:46 Operator: RJH
Sample : F9M99 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 12 1:10 2015 Quant Results File: PCLPSD.RES

Quant Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 09 23:12:44 2015
Response via : Initial Calibration
DataAcq Meth : PCLPSD

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	95		Not Detected	
37)	Methylcyclohexane	0.00	55		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	0.00	91		Not Detected	
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

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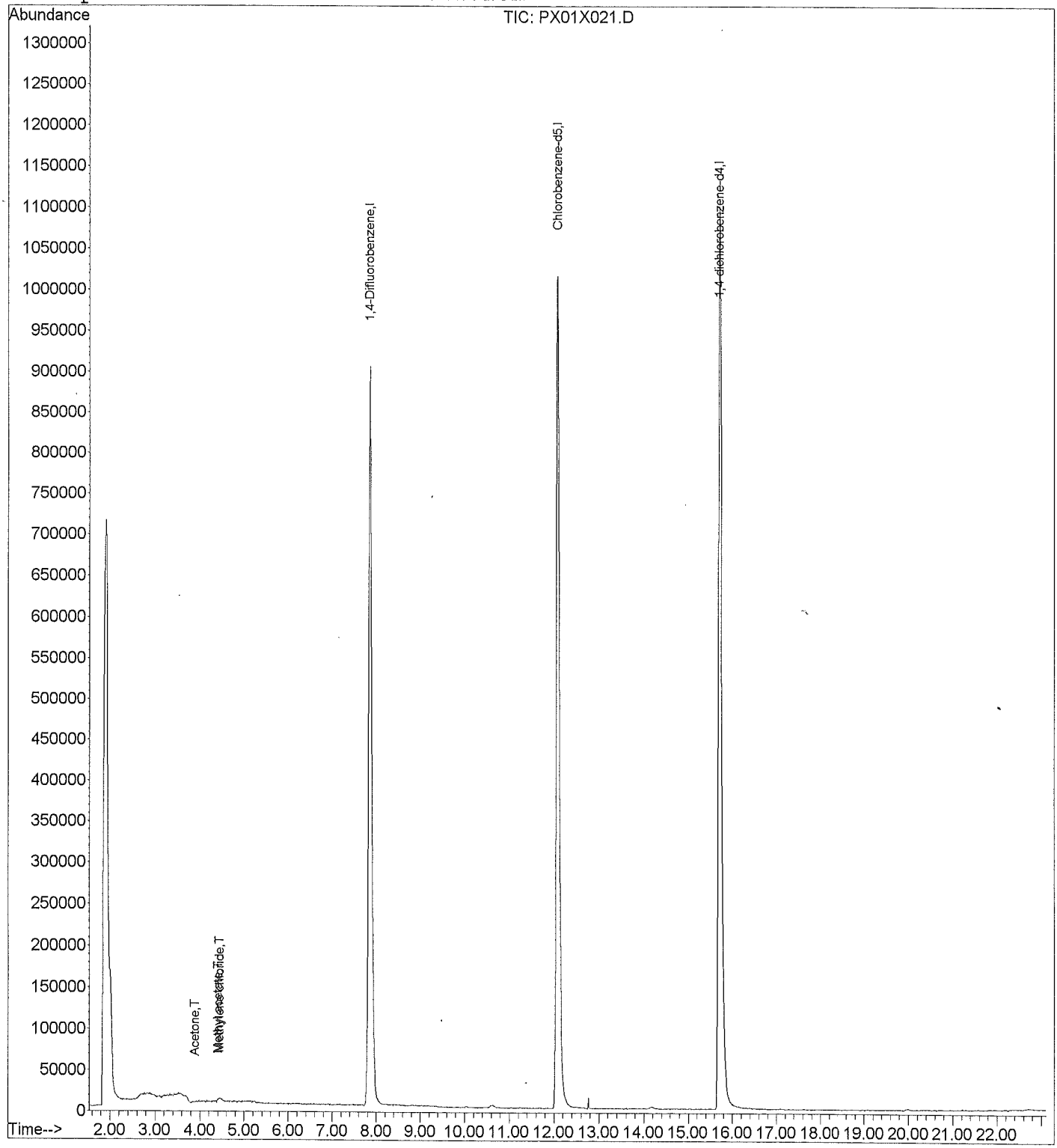
01924

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11JUN15P\PX01X021.D
Acq Time : 06/12/2015 00:46 Operator: RJH
Sample : F9M99 Inst : 5972-P
Misc : 1515725 Multiplr: 1.00

Quant Time: Jun 12 1:10 2015 Quant Results File: PCLPSD.RES

Method : D:\HPCHEM\1\METHODS\PCLPSD.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed Jun 03 21:06:54 2015
Response via : Initial Calibration



01925

% Moistures & Solids

Analyst: IJO
Queue: EGRV
Batch: 5206
Instrument: GRAV03

Oven Start Time	06/08/2015 14:00	**Start Oven Temp:**	105°	**Start Desiccator:**	06/09/2015 09:00
Oven Finish Time	06/09/2015 09:00	**End Oven Temp:**	105°	**End Desiccator:**	06/09/2015 10:00

Workorder	Dish#	Lab Sample ID	Dish (g)	Dish + Soil (g)	Soil Weight (g)	Dish + DS (g)	Dry Soil (g)	% Solids	% Moistures
1515725	1	1515725001	1.2607	9.5103	8.2496	8.4800	7.2193	87.5109%	12.4891%
1515725	2	1515725002	1.2660	9.6607	8.3947	8.0122	6.7462	80.3626%	19.6374%
1515725	3	1515725003	1.2676	9.8832	8.6156	8.1462	6.8786	79.8389%	20.1611%
1515725	4	1515725004	1.2636	9.8884	8.6248	8.0918	6.8282	79.1694%	20.8306%
1515725	5	1515725005	1.2590	9.9586	8.6996	9.4675	8.2085	94.3549%	5.6451%
1515725	6	1515725006	1.2639	9.8836	8.6197	9.4389	8.1750	94.8409%	5.1591%
1515725	7	1515725007	1.2681	9.7046	8.4365	8.9065	7.6384	90.5399%	9.4601%
1515725	8	1515725008	1.2745	9.9178	8.6433	9.0262	7.7517	89.6845%	10.3155%
1515725	9	1515725009	1.2751	9.8131	8.5380	8.9607	7.6856	90.0164%	9.9836%
1515725	10	1515725010	1.2729	9.8812	8.6083	8.9808	7.7079	89.5403%	10.4597%
1515725	11	1515725011	1.2726	9.7286	8.4560	9.0178	7.7452	91.5941%	8.4059%
1515725	12	450497	1.2726	9.7880	8.5154	9.1012	7.8286	91.9346%	8.0654%
1515725	13	1515725014	1.2742	9.8391	8.5649	8.8356	7.5614	88.2836%	11.7164%
1515725	14	1515725015	1.2721	9.5444	8.2723	8.5429	7.2708	87.8933%	12.1067%
1515725	15	1515725016	1.2705	9.8488	8.5783	8.8138	7.5433	87.9347%	12.0653%
1515725	16	1515725017	1.2702	9.7777	8.5075	9.0939	7.8237	91.9624%	8.0376%
1515725	17	1515725018	1.2904	9.8034	8.5130	8.1142	6.8238	80.1574%	19.8426%
1515725	18	1515725019	1.9496	9.5398	7.5902	8.0186	6.0690	79.9584%	20.0416%
1515725	19	1515725020	2.3889	9.7637	7.3748	8.6377	6.2488	84.7318%	15.2682%
1515725	20	1515725021	1.2793	9.8218	8.5425	8.8997	7.6204	89.2057%	10.7943%

From: (832) 347-4180
Derrick Cobb
Weston Solutions, Inc
5599 San Felipe St
Ste. 700
HOUSTON, TX 77056

Origin ID: HOUA

FedEx Express

J151215022303uv

Ship Date: 04JUN15
ActWgt: 70.0 LB
CAD: 2557564/INET3610

Dims: 22 X 16 X 14 IN

Delivery Address Bar Code

SHIP TO: (801) 266-7700 BILL SENDER

Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

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Invoice #
PO #
Dept #

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Dan Carr 06/05/2015 10:09

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5599 San Felipe St
Ste. 700
HOUSTON, TX 77056

Origin ID: HOUA

FedEx Express

J151215022303uv

Ship Date: 04JUN15
ActWgt: 70.0 LB
CAD: 2557564/INET3610

Dims: 22 X 16 X 14 IN

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5599 San Felipe St
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HOUSTON, TX 77056

Origin ID: HOUA

FedEx Express

J151215022303uv

Ship Date: 04JUN15
ActWgt: 70.0 LB
CAD: 2557564/INET3610

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Invoice #
PO #
Dept #

SHIP TO: (801) 266-7700 BILL SENDER

Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

FRI - 05 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7737 5409 0285

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Dims: 22 X 16 X 14 IN

Delivery Address Bar Code

SHIP TO: (801) 266-7700 BILL SENDER

Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

Ref # 20406.016.005.0919.01
Invoice #
PO #
Dept #

FRI - 05 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7737 5411 4460

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06/05/2015 10:09

From: (832) 347-4180
Derrick Cobb
Weston Solutions, Inc
5599 San Felipe St
Ste. 700
HOUSTON, TX 77056

Origin ID: HOUA

FedEx Express

J1512150223030v

Ship Date: 04JUN15
ActWgt: 70.0 LB
CAD: 2557564/INET3610

Dims: 22 X 16 X 14 IN

Delivery Address Bar Code

Ref # 20406.016.005.0919.01
Invoice #
PO #
Dept #

SHIP TO: (801) 266-7700 BILL SENDER

Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

FRI - 05 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 7737 5413 3498
0201

84123
UT-US
SLC

XH BTFA

537J1/8A0E/EE48

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06/05/2015 10:09

1515725

USEPA CLP COC (LAB COPY)

DateShipped: 6/4/2015
CarrierName: FedEx
AirbillNo: 773754096490

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #:

F9K00

No: 6-060415-150509-0106
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-019-004-06-51	F9K00	Soil/ START	Composite	SVOA/SVOASIM(21)	1810 (Ice) (2)	021	06/04/2015 11:00	Good
WO-019-005-00-51	F9M85	Soil/ START	Composite	SVOA/SVOASIM(21)	1735 (Ice) (2)	021	06/04/2015 08:35	
WO-019-005-00-52	F9M86	Soil/ START	Composite	SVOA/SVOASIM(21)	1740 (Ice) (2)	021	06/04/2015 08:40	
WO-019-005-06-51	F9M88	Soil/ START	Composite	SVOA/SVOASIM(21)	1750 (Ice) (2)	021	06/04/2015 09:00	
WO-019-007-12-51	F9M94	Soil/ START	Composite	SVOA/SVOASIM(21)	1780 (Ice) (2)	021	06/04/2015 09:50	
WO-019-007-24-51	F9M95	Soil/ START	Composite	SVOA/SVOASIM(21)	1785 (Ice) (2)	021	06/04/2015 09:55	
WO-019-004-00-51	F9M96	Soil/ START	Composite	SVOA/SVOASIM(21)	1790 (Ice) (2)	021	06/04/2015 09:40	

Special Instructions: No Lab QC on SVOA Samples

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SVOA/SVOASIM=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
7/samples	[signature] Weston	6/4/15 2100	FedEx	6/4/15 2100	
	FedEx	06/05/2015 10:09	[signature] DATAC	06/05/2015 10:09	Good

USEPA CLP COC (LAB COPY)
DateShipped: 6/4/2015
CarrierName: FedEx
AirbillNo: 773754108979

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #: F9K00

No: 6-060415-155716-0109
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-019-003-00-51	F9M82	Soil/ START	Composite	SVOA/SVOASIM(21)	1720 (Ice) (2)	021	06/04/2015 08:10	Good
WO-019-003-00-52	F9M83	Soil/ START	Composite	SVOA/SVOASIM(21)	1725 (Ice) (2)	021	06/04/2015 08:15	
WO-019-003-06-51	F9M84	Soil/ START	Composite	SVOA/SVOASIM(21)	1730 (Ice) (2)	021	06/04/2015 08:30	
WO-019-005-12-51	F9M89	Soil/ START	Composite	SVOA/SVOASIM(21)	1755 (Ice) (2)	021	06/04/2015 09:05	
WO-019-005-24-51	F9M90	Soil/ START	Composite	SVOA/SVOASIM(21)	1760 (Ice) (2)	021	06/04/2015 09:10	

Special Instructions: No Lab QC SVOA Samples

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SVOA/SVOASIM=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	Weston	6/4/15 @ 2100	FedEx	6/4/15 @ 2100	
	FedEx	06/05/2015 10:09	DATAL	06/05/2015 10:09	Good

3153

USEPA CLP COC (LAB COPY)
DateShipped: 6/4/2015
CarrierName: FedEx
AirbillNo: 773754093772

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #: F9K00

No: 6-060415-144146-0104
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-019-007-00-51	F9M87	Soil/ START	Composite	SVOA/SVOASIM(21)	1745 (Ice) (2)	021	06/04/2015 09:05	Good
WO-019-008-00-51	F9M91	Soil/ START	Composite	SVOA/SVOASIM(21)	1765 (Ice) (2)	021	06/04/2015 09:30	
WO-019-006-00-51	F9M92	Soil/ START	Composite	SVOA/SVOASIM(21)	1770 (Ice) (2)	021	06/04/2015 09:35	
WO-019-007-06-51	F9M93	Soil/ START	Composite	SVOA/SVOASIM(21)	1775 (Ice) (2)	021	06/04/2015 09:45	
WO-019-006-06-51	F9M97	Soil/ START	Composite	SVOA/SVOASIM(21)	1795 (Ice) (2)	021	06/04/2015 10:25	
WO-019-008-06-51	F9M98	Soil/ START	Composite	SVOA/SVOASIM(21)	1800 (Ice) (2)	021	06/04/2015 10:30	
WO-019-008-12-51	F9M99	Soil/ START	Composite	SVOA/SVOASIM(21)	1805 (Ice) (2)	021	06/04/2015 10:35	SDT Final Sample

Special Instructions: No Lab QC SVOA Samples	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: SVOA/SVOASIM=CLP SVOA/SVOASIM	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
7/sampler	[signature] Weston	6/4/15 2:00	Fedex	6/4/15 2:00	
	FedEx	06/05/2015 10:09	[signature] DATAC	06/05/2015 10:09	Good

USEPA CLP COC (LAB COPY)
DateShipped: 6/4/2015
CarrierName: FedEx
AirbillNo: 773754101378

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #:

F9K00

No: 6-060415-151647-0107
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-019-004-06-51	F9K00	Soil/ START	Composite	PEST+ARO(21)	1811 (Ice) (2)	021	06/04/2015 11:00	Good
WO-019-005-00-51	F9M85	Soil/ START	Composite	PEST+ARO(21)	1736 (Ice) (2)	021	06/04/2015 08:35	
WO-019-005-00-52	F9M86	Soil/ START	Composite	PEST+ARO(21)	1741 (Ice) (2)	021	06/04/2015 08:40	
WO-019-005-06-51	F9M88	Soil/ START	Composite	PEST+ARO(21)	1751 (Ice) (2)	021	06/04/2015 09:00	
WO-019-007-12-51	F9M94	Soil/ START	Composite	PEST+ARO(21)	1781 (Ice) (2)	021	06/04/2015 09:50	
WO-019-007-24-51	F9M95	Soil/ START	Composite	PEST+ARO(21)	1786 (Ice) (2)	021	06/04/2015 09:55	
WO-019-004-00-51	F9M96	Soil/ START	Composite	PEST+ARO(21)	1791 (Ice) (2)	021	06/04/2015 09:40	

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #

Analysis Key: PEST+ARO=CLP Pest + ARO

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	[signature] Weston	6/4/15 @ 2100	FedEx	6/4/15 @ 2100	
	FedEx	06/05/2015 10:09	[signature] DATAC	06/05/2015 10:09	Good

USEPA CLP COC (LAB COPY)
DateShipped: 6/4/2015
CarrierName: FedEx
AirbillNo: 773754112147

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #:

F9K00

No: 6-060415-160306-0110
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-019-003-00-51	F9M82	Soil/ START	Composite	PEST+ARO(21)	1721 (Ice) (2)	021	06/04/2015 08:10	Good
WO-019-003-00-52	F9M83	Soil/ START	Composite	PEST+ARO(21)	1726 (Ice) (2)	021	06/04/2015 08:15	
WO-019-003-06-51	F9M84	Soil/ START	Composite	PEST+ARO(21)	1731 (Ice) (2)	021	06/04/2015 08:30	
WO-019-005-12-51	F9M89	Soil/ START	Composite	PEST+ARO(21)	1756 (Ice) (2)	021	06/04/2015 09:05	
WO-019-005-24-51	F9M90	Soil/ START	Composite	PEST+ARO(21)	1761 (Ice) (2)	021	06/04/2015 09:10	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: PEST+ARO=CLP Pest + ARO

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
5/samples		6/4/15 2100	Fedex	6/4/15 2100	
	FedEx	06/05/2015 1009	DATAC	06/05/2015 10:09	Good

USEPA CLP COC (LAB COPY)

DateShipped: 6/4/2015
CarrierName: FedEx
AirbillNo: 773754090285

CHAIN OF CUSTODY RECORD

Case #: 45316 P9K00
Cooler #:

No: 6-060415-143436-0103

Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-019-007-00-51	F9M87	Soil/ START	Composite	PEST+ARO(21)	1746 (Ice) (2)	021	06/04/2015 09:05	Good
WO-019-008-00-51	F9M91	Soil/ START	Composite	PEST+ARO(21)	1766 (Ice) (4)	021	06/04/2015 09:30	
WO-019-006-00-51	F9M92	Soil/ START	Composite	PEST+ARO(21)	1771 (Ice) (2)	021	06/04/2015 09:35	
WO-019-007-06-51	F9M93	Soil/ START	Composite	PEST+ARO(21)	1776 (Ice) (2)	021	06/04/2015 09:45	
WO-019-006-06-51	F9M97	Soil/ START	Composite	PEST+ARO(21)	1796 (Ice) (2)	021	06/04/2015 10:25	
WO-019-008-06-51	F9M98	Soil/ START	Composite	PEST+ARO(21)	1801 (Ice) (2)	021	06/04/2015 10:30	
WO-019-008-12-51	F9M99	Soil/ START	Composite	PEST+ARO(21)	1806 (Ice) (2)	021	06/04/2015 10:35	SDG Field Sample

Sample(s) to be used for Lab QC: WO-019-008-00-51 Tag 1766

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: PEST+ARO=CLP Pest + ARO

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	Weston	6/4/15 @ 2100	FedEx	6/4/15 @ 2100	
	FedEx	06/05/2015 10:09	DATAC	06/05/2015 10:09	Good

ALS

USEPA CLP COC (LAB COPY)

DateShipped: 6/4/2015
CarrierName: FedEx
AirbillNo: 773754114460

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #:

FAKED

No: 6-060415-161725-0111

Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-019-004-06-51	F9K00	Soil/ START	Composite	VOA(21)	1809 (Ice) (3)	021	06/04/2015 11:00	Good
WO-019-003-44-20150604	F9K01	Water/ START	Grab	VOA(21)	1813 (HCl) (3)	FieldQC	06/04/2015 14:55	
WO-019-003-00-51	F9M82	Soil/ START	Composite	VOA(21)	1719 (Ice) (3)	021	06/04/2015 08:10	
WO-019-003-00-52	F9M83	Soil/ START	Composite	VOA(21)	1724 (Ice) (3)	021	06/04/2015 08:15	
WO-019-003-06-51	F9M84	Soil/ START	Composite	VOA(21)	1729 (Ice) (3)	021	06/04/2015 08:30	
WO-019-005-00-51	F9M85	Soil/ START	Composite	VOA(21)	1734 (Ice) (3)	021	06/04/2015 08:35	
WO-019-005-00-52	F9M86	Soil/ START	Composite	VOA(21)	1739 (Ice) (3)	021	06/04/2015 08:40	
WO-019-007-00-51	F9M87	Soil/ START	Composite	VOA(21)	1744 (Ice) (3)	021	06/04/2015 09:05	
WO-019-005-06-51	F9M88	Soil/ START	Composite	VOA(21)	1749 (Ice) (3)	021	06/04/2015 09:00	
WO-019-005-12-51	F9M89	Soil/ START	Composite	VOA(21)	1754 (Ice) (3)	021	06/04/2015 09:05	

Special Instructions: No Lab QC VOA Samples	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: VOA=CLP VOA	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
20/samples	Weston	6/4/15 2100	Fedex	6/4/15 2100	
	FedEx	06/05/2015 10:09	DATAC	06/05/2015 10:09	Good

USEPA CLP COC (LAB COPY)
DateShipped: 6/4/2015
CarrierName: FedEx
AirbillNo: 773754114460

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #:

F9K00

No: 6-060415-161725-0111
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-019-005-24-51	F9M90	Soil/ START	Composite	VOA(21)	1759 (Ice) (3)	021	06/04/2015 09:10	Good
WO-019-008-00-51	F9M91	Soil/ START	Composite	VOA(21)	1764 (Ice) (3)	021	06/04/2015 09:30	
WO-019-006-00-51	F9M92	Soil/ START	Composite	VOA(21)	1769 (Ice) (3)	021	06/04/2015 09:35	
WO-019-007-06-51	F9M93	Soil/ START	Composite	VOA(21)	1774 (Ice) (3)	021	06/04/2015 09:45	
WO-019-007-12-51	F9M94	Soil/ START	Composite	VOA(21)	1779 (Ice) (3)	021	06/04/2015 09:50	
WO-019-007-24-51	F9M95	Soil/ START	Composite	VOA(21)	1784 (Ice) (3)	021	06/04/2015 09:55	
WO-019-004-00-51	F9M96	Soil/ START	Composite	VOA(21)	1789 (Ice) (3)	021	06/04/2015 09:40	
WO-019-006-06-51	F9M97	Soil/ START	Composite	VOA(21)	1794 (Ice) (3)	021	06/04/2015 10:25	
WO-019-008-06-51	F9M98	Soil/ START	Composite	VOA(21)	1799 (Ice) (3)	021	06/04/2015 10:30	
WO-019-008-12-51	F9M99	Soil/ START	Composite	VOA(21)	1804 (Ice) (3)	021	06/04/2015 10:35	SDG Final Sample

Special Instructions: No Lab QC VOA Samples	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: VOA=CLP VOA	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
24 samples	Weston	6/4/15 2000	FedEx	6/4/15 2100	
	FedEx	06/05/2015 10:09	DATAC	06/05/2015 10:09	Good

SDG 45316

USEPA CLP COC (LAB COPY)

DateShipped: 6/4/2015
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #:

F9K00

No: 6-060415-162340-0112

Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-019-004-06-51	F9K00	Soil/ START	Composite	CLP Moisture(21)	1812 (Ice) (1)	021	06/04/2015 11:00	Good
WO-019-003-00-51	F9M82	Soil/ START	Composite	CLP Moisture(21)	1722 (Ice) (1)	021	06/04/2015 08:10	
WO-019-003-00-52	F9M83	Soil/ START	Composite	CLP Moisture(21)	1727 (Ice) (1)	021	06/04/2015 08:15	
WO-019-003-06-51	F9M84	Soil/ START	Composite	CLP Moisture(21)	1732 (Ice) (1)	021	06/04/2015 08:30	
WO-019-005-00-51	F9M85	Soil/ START	Composite	CLP Moisture(21)	1737 (Ice) (1)	021	06/04/2015 08:35	
WO-019-005-00-52	F9M86	Soil/ START	Composite	CLP Moisture(21)	1742 (Ice) (1)	021	06/04/2015 08:40	
WO-019-007-00-51	F9M87	Soil/ START	Composite	CLP Moisture(21)	1747 (Ice) (1)	021	06/04/2015 09:05	
WO-019-005-06-51	F9M88	Soil/ START	Composite	CLP Moisture(21)	1752 (Ice) (1)	021	06/04/2015 09:00	
WO-019-005-12-51	F9M89	Soil/ START	Composite	CLP Moisture(21)	1757 (Ice) (1)	021	06/04/2015 09:05	
WO-019-005-24-51	F9M90	Soil/ START	Composite	CLP Moisture(21)	1762 (Ice) (1)	021	06/04/2015 09:10	

Special Instructions:	**Shipment for Case Complete? Y**
	Samples Transferred From Chain of Custody #

Analysis Key: CLP Moisture=CLP % Moisture

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
19/samples	[signature] Weston	6/4/15 2100	Fedex	6/4/15 2100	
	FedEx	06/05/2015 10:09	[signature] DATAC	06/05/2015 10:09	Good

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

F9K00

No: 6-060415-162340-0112

DateShipped: 6/4/2015
CarrierName: FedEx
AirbillNo:

Case #: 45316
Cooler #:

Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-019-008-00-51	F9M91	Soil/ START	Composite	CLP Moisture(21)	1767 (Ice) (1)	021	06/04/2015 09:30	Good
WO-019-006-00-51	F9M92	Soil/ START	Composite	CLP Moisture(21)	1772 (Ice) (1)	021	06/04/2015 09:35	
WO-019-007-06-51	F9M93	Soil/ START	Composite	CLP Moisture(21)	1777 (Ice) (1)	021	06/04/2015 09:45	
WO-019-007-12-51	F9M94	Soil/ START	Composite	CLP Moisture(21)	1782 (Ice) (1)	021	06/04/2015 09:50	
WO-019-007-24-51	F9M95	Soil/ START	Composite	CLP Moisture(21)	1787 (Ice) (1)	021	06/04/2015 09:55	
WO-019-004-00-51	F9M96	Soil/ START	Composite	CLP Moisture(21)	1792 (Ice) (1)	021	06/04/2015 09:40	
WO-019-006-06-51	F9M97	Soil/ START	Composite	CLP Moisture(21)	1797 (Ice) (1)	021	06/04/2015 10:25	
WO-019-008-06-51	F9M98	Soil/ START	Composite	CLP Moisture(21)	1802 (Ice) (1)	021	06/04/2015 10:30	
WO-019-008-12-51	F9M99	Soil/ START	Composite	CLP Moisture(21)	1807 (Ice) (1)	021	06/04/2015 10:35	SDG End Sample

Special Instructions:	Shipment for Case Complete? Y
	Samples Transferred From Chain of Custody #

Analysis Key: CLP Moisture=CLP % Moisture

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
19/samples	Weston	6/4/15 2100	Fedex	6/4/15 2100	
	FedEx	06/05/2015 10:09	DATAC	06/05/2015 10:09	Good

SAMPLE TAG INFORMATION SHEET

There are no Sample Tags included with this SDG

Notations concerning the location of the Sample Tags are included in Forms DC-1,, DC-2 and in the SDG Administrative Narrative (if it is required).

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Thomas Carlson	Log-In Date: 06/05/2015
Received By (Signature): [signature]	
Case Number: 45316	Sample Delivery Group No.: F9K00
Mod. Ref. No.: N/A	

Remarks:

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s)	Present/Absent*	F9K00	N/A	1515725001	SVOA/~~SVE~~ SVSIM Seal 06/05/2015
	Intact/Broken*	F9M 85		005	
2. Custody Seal Nos.	N/A	86		006	
	1	88		008	
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	94		016	
4. Airbill	Airbill/Sticker	95		017	
	Present/Absent*	96		018	
5. Airbill No.	773754096490				
	N/A				
6. Sample Tags	Present/Absent*				
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
7. Sample Condition	Intact/Broken*/Leaking*				
8. Cooler Temperature Indicator Bottle	Present/Absent*				
9. Cooler Temperature	2				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	06/05/2015				
12. Time Received	10:09				

Sample Transfer

Fraction: SVOA/SVSIM	Fraction:
Area #: R-33-1	Area #:
By: D.C.	By:
On: 06/05/2015	On:

06/05/2015

D.C. 06/05/2015

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 6/8/15	Logbook Page No.: Not Applicable

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Thomas Carlson	Log-In Date: 06/05/2015
Received By (Signature):	
Case Number: 45316	Sample Delivery Group No.: F9K00
Mod. Ref. No.: N/A	

Remarks:

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s)	Present/Absent* / Intact/Broken*	F9M82	N/A	15157250 02	SVOA/SVSIM Soil
		83		003	
2. Custody Seal Nos.	N/A	84		004	
	1	89		009	
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	90		010	
4. Airbill	Airbill/Sticker Present/Absent*				
5. Airbill No.	773754108979				
	N/A				
6. Sample Tags	Present/Absent*				
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
7. Sample Condition	Intact/Broken*/Leaking*				
8. Cooler Temperature Indicator Bottle	Present/Absent*				
9. Cooler Temperature	2				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	06/05/2015				
12. Time Received	10:09				

Sample Transfer

Fraction: SVOA/SVSIM	Fraction:
Area #: R-334	Area #:
By:	By:
On: 06/05/2015	On:

06/05/2015

* Contact SMO and attach record of resolution

Reviewed By:	Logbook No.: Not Applicable
Date: 6/8/15	Logbook Page No.: Not Applicable

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Thomas Carlson	Log-In Date: 06/05/2015
Received By (Signature):	
Case Number: 45316	Sample Delivery Group No.: F9K00
Mod. Ref. No.: N/A	

Remarks:

		EPA Sample #	Corresponding: Sample Tag #	Corresponding: Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s)	(Present)/Absent* (Intact)/Broken*	F9M87	N/A	1515125007	SVOA/SVSIM Soil
		91		011	
2. Custody Seal Nos.	N/A	92		012	
	1	93		013	
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	(Present)/Absent*	97			
4. Airbill	(Airbill)/Sticker (Present)/Absent*	98			
		99			
5. Airbill No.	773540937 72				
	N/A				
6. Sample Tags	Present/(Absent)*				
Sample Tag Numbers	Listed/(Not Listed) on Chain-of-Custody				
7. Sample Condition	(Intact)/Broken*/Leaking*				
8. Cooler Temperature Indicator Bottle	(Present)/Absent*				
9. Cooler Temperature	2				
10. Does information on TR/COCs, and sample tags agree?	(Yes)/No*				
11. Date Received at Laboratory	06/05/2015				
12. Time Received	10:09				

BC 06/05/2015

Sample Transfer					
Fraction: SVOA/SVSIM	Fraction:				
Area #: R-334	Area #:				
By:	By:				
On: 06/05/2015	On:				

BC 06/05/2015

* Contact SMO and attach record of resolution

Reviewed By:	Logbook No.: Not Applicable
Date: 6/8/15	Logbook Page No.: Not Applicable

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Thomas Carlson	Log-In Date: 06/05/2015
Received By (Signature): Thomas Carlson	
Case Number: 45316	Sample Delivery Group No.: F9K00
	Mod. Ref. No.: N/A

Remarks:

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s)	Present/Absent*	F9K00	N/A	1515725001	PEST/ARO SOIL
	Intact/Broken*	F9M85		005	
2. Custody Seal Nos.	N/A	86		006	
	1	88		008	
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	94			
4. Airbill	Airbill/Sticker Present/Absent*	95			
		96			
5. Airbill No.	773754101378				
	N/A				
6. Sample Tags	Present/Absent*				
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
7. Sample Condition	Intact/Broken*/Leaking*				
8. Cooler Temperature Indicator Bottle	Present/Absent*				
9. Cooler Temperature	2				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	06/05/2015				
12. Time Received	10:09				

06/05/2015

Sample Transfer	
Fraction: PEST/ARO	Fraction:
Area #: R-33-1	Area #:
By: JC.	By:
On: 06/05/2015	On:

06/05/2015

* Contact SMO and attach record of resolution

Reviewed By: Johanne Olsa	Logbook No.: Not Applicable
Date: 6/8/15	Logbook Page No.: Not Applicable

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group		Page 1 of 1
Received By (Print Name): Thomas Carlson		Log-In Date: 06/05/2015
Received By (Signature): [signature]		
Case Number: 45316	Sample Delivery Group No.: F9K00	Mod. Ref. No.: N/A

Remarks:

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s)	Present/Absent* Intact/Broken*	F9M82	N/A	1515725	PEST/ARO Soil
		83			
2. Custody Seal Nos.	N/A	84			
	1	89			
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	90			
4. Airbill	Airbill/Sticker Present/Absent*				
5. Airbill No.	773754112147				
	N/A				
6. Sample Tags	Present/Absent*				
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
7. Sample Condition	Intact/Broken*/Leaking*				
8. Cooler Temperature Indicator Bottle	Present/Absent*				
9. Cooler Temperature	2				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	06/05/2015				
12. Time Received	10:09				

DC 06/05/2015

Sample Transfer		
Fraction: PEST/ARO	Fraction:	
Area #: R-33-1	Area #:	
By: DC	By:	
On: 06/05/2015	On:	

DC 06/05/2015

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 6/8/15	Logbook Page No.: Not Applicable

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Thomas Carlson	Log-In Date: 06/05/2015
Received By (Signature): [signature]	
Case Number: 45316	Sample Delivery Group No.: F9K00
	Mod. Ref. No.: N/A

Remarks:

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s)	Present/Absent* / Intact/Broken*	F9M87	N/A	15157 25	PEST/ARO SOIL
		91			MS/MSD
2. Custody Seal Nos.	N/A	92			
		93			
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	97			
4. Airbill	Airbill/Sticker Present/Absent*	98			
		99			
5. Airbill No.	773754090285				
	N/A				
6. Sample Tags	Present/Absent*				
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
7. Sample Condition	Intact/Broken*/Leaking*				
8. Cooler Temperature Indicator Bottle	Present/Absent*				
9. Cooler Temperature	2				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	06/05/2015				
12. Time Received	10:09				

Sample Transfer

Relinquished	Received
Fraction: PEST/ARO	Fraction:
Area #: R-33-1	Area #:
By: [signature]	By: [signature]
On: 06/05/2015	On: 06/05/2015

[signature] 06/05/2015

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 6/8/15	Logbook Page No.: Not Applicable

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Thomas Carlson	Log-In Date: 06/05/2015
Received By (Signature): Thomas Carlson	
Case Number: 45316	Sample Delivery Group No.: F9K00
	Mod. Ref. No.: N/A

Remarks:

1. Custody Seal (s): Present/Absent* — Intact/Broken*
2. Custody Seal Nos.: N/A; 1
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists: Present/Absent*
4. Airbill: Airbill/Sticker Present/Absent*
5. Airbill No.: 773754114460; N/A
6. Sample Tags: Present/Absent* — Sample Tag Numbers: Listed/Not Listed on Chain-of-Custody
7. Sample Condition: Intact/Broken*/Leaking*
8. Cooler Temperature Indicator Bottle: Present/Absent*
9. Cooler Temperature: 2
10. Does information on TR/COCs, and sample tags agree?: Yes/No*
11. Date Received at Laboratory: 06/05/2015
12. Time Received: 10:00

Sample Transfer

Fraction	Area #	By	On
VOA Soil	Storage	OJE.	06/05/2015
VOA Water	Storage 2	OJE.	06/05/2015

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
F9K00	N/A	1515725001	VOA Soil
01			VOA Water
F9M42		1515725002	VOA Soil
83		003	
84		004	
85		005	
86		006	
87		007	
88		008	
89		009	
90		010	
91		011	
92		014	
93		015	
94		016	
95		017	
96		018	
97		019	
98		020	
99		021	

OJE 06/05/2015

* Contact SMO and attach record of resolution

Reviewed By: Johnnie Ola	Logbook No.: Not Applicable
Date: 6/8/15	Logbook Page No.: Not Applicable

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Thomas Carlson	Log-In Date: 06/05/2015
Received By (Signature): [signature]	
Case Number: 45316	Sample Delivery Group No.: F9K00
	Mod. Ref. No.: N/A

Remarks:

1. Custody Seal (s): (Present)/Absent* (Intact)/Broken*
2. Custody Seal Nos.: N/A / 1
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists: (Present)/Absent*
4. Airbill: (Airbill/Sticker) Present/Absent*
5. Airbill No.: 773754133498 / N/A
6. Sample Tags: Present/(Absent)* Sample Tag Numbers: (Listed)/Not Listed on Chain-of-Custody
7. Sample Condition: (Intact)/Broken*/Leaking*
8. Cooler Temperature Indicator Bottle: (Present)/Absent*
9. Cooler Temperature: 2°
10. Does information on TR/COCs, and sample tags agree? (Yes)/No*
11. Date Received at Laboratory: 06/05/2015
12. Time Received: 10:09

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
F9K00	N/A	45157 5001	% MOISTURE SOIL
F9M82		002	
83		003	
84		004	
85		005	
86		006	
87		007	
88		008	
89		009	
90		010	
91		011	
92		014	
93		015	
94		016	
95		017	
96		018	
97		019	
98		020	
99		021	

Sample Transfer

Fraction	Fraction
% MOIST	
Area # R-331	Area #
By DC	By DC 06/05/2015
On 06/05/2015	On

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 6/8/15	Logbook Page No.: Not Applicable

EPA-CLP CHECKING DOCUMENTATION FORM FOR GC/MS ORGANICS ANALYSIS

Case 45316 SDG F9K00 Fraction VLM

DELIVERABLES CHECK - All forms are present and have been checked for completeness and accuracy. All raw data such as quantitation reports, chromatograms, and spectra are included and are in the correct order.

Signature _____ Date 6.24.15

CCS CHECK - The computer-readable data submitted on diskette has been checked using CCS software provided by EPA. Necessary corrections to the diskette have been made if it is possible to correct the deficiency.

Signature _____ Date 6.24.15

CHEMIST CHECK or PEER REVIEW - Target compounds reported have been verified against the reference spectra. For target compounds which have isomers, the relative retention time has been verified against the relative retention time of the continuing standard. All target compounds present are reported on the Form I and the reported values are correct.

Signature Thomas J. Mann Date 6.24.15

MANAGER CHECK - The data package for the fraction includes all samples submitted for the sample delivery group. All QC requirements of the contract were met with the exception of items specifically mentioned in the narrative. All documents necessary for the case file are included.

Signature Thomas J. Mann Date 6.24.15

DOCUMENT CONTROL CHECK - All documents, forms, and data required for reporting are present and in the correct order. All required miscellaneous data (e.g., Traffic reports, Sample tags, Airbills, etc.) are also included.

Signature Desiree Hall Date 06/25/2015

EPA-CLP CHECKING DOCUMENTATION FORM FOR GC/MS ORGANICS ANALYSIS

Case 45316 SDG FQK00 Fraction SVOA

DELIVERABLES CHECK - All forms are present and have been checked for completeness and accuracy. All raw data such as quantitation reports, chromatograms, and spectra are included and are in the correct order.

Signature [signature] Date 6/25/15

CCS CHECK - The computer-readable data submitted on diskette has been checked using CCS software provided by EPA. Necessary corrections to the diskette have been made if it is possible to correct the deficiency.

Signature [signature] Date 6/25/15

CHEMIST CHECK or PEER REVIEW - Target compounds reported have been verified against the reference spectra. For target compounds which have isomers, the relative retention time has been verified against the relative retention time of the continuing standard. All target compounds present are reported on the Form I and the reported values are correct.

Signature [signature] Date 6-25-15

MANAGER CHECK - The data package for the fraction includes all samples submitted for the sample delivery group. All QC requirements of the contract were met with the exception of items specifically mentioned in the narrative. All documents necessary for the case file are included.

Signature [signature] Date 6-25-15

DOCUMENT CONTROL CHECK - All documents, forms, and data required for reporting are present and in the correct order. All required miscellaneous data (e.g., Traffic reports, Sample tags, Airbills, etc.) are also included.

Signature Desiree' Hill Date 06/25/2015

EPA-CLP CHECKING DOCUMENTATION FORM

Case 45316 SDG F9K00 Fraction PEST

DELIVERABLES CHECK - All forms are present and have been checked for completeness and accuracy. All raw data such as quantitation reports and chromatograms are included and are in the correct order.

Signature _____ Date 06/24/15

CCS CHECK – The computer-readable data submitted on diskette has been checked using CCS software provided by EPA. Necessary corrections to the diskette have been made if it is possible to correct the deficiency.

Signature _____ Date 06/24/15

CHEMIST CHECK or PEER REVIEW – The entire data package has been reviewed for completeness and accuracy, including a deliverables check as well as review of the QC data. Target compounds reported have been verified against the retention time windows for both columns. All target compounds present are reported on the Form I and the reported values are correct.

Signature _____ Date 06/24/15

MANAGER CHECK – The data package for the fraction includes all samples submitted for the sample delivery group. All QC requirements of the contract were met with the exception of items specifically mentioned in the narrative. All documents necessary for the case file are included.

Signature _____ Date 06/24/15

DOCUMENT CONTROL CHECK – All documents, forms, and data required for reporting are present and in the correct order. All required miscellaneous data (e.g., Traffic reports, Sample tags, Air bills, etc.) are also included.

Signature Denise Hall Date 06/25/2015

EPA-CLP CHECKING DOCUMENTATION FORM

Case 45316 SDG F1K00 Fraction AROCLORS

DELIVERABLES CHECK - All forms are present and have been checked for completeness and accuracy. All raw data such as quantitation reports and chromatograms are included and are in the correct order.

Signature _____ Date 06/22/15

CCS CHECK – The computer-readable data submitted on diskette has been checked using CCS software provided by EPA. Necessary corrections to the diskette have been made if it is possible to correct the deficiency.

Signature _____ Date 06/22/15

CHEMIST CHECK or PEER REVIEW – The entire data package has been reviewed for completeness and accuracy, including a deliverables check as well as review of the QC data. Target compounds reported have been verified against the retention time windows for both columns. All target compounds present are reported on the Form I and the reported values are correct.

Signature _____ Date 06/23/15

MANAGER CHECK – The data package for the fraction includes all samples submitted for the sample delivery group. All QC requirements of the contract were met with the exception of items specifically mentioned in the narrative. All documents necessary for the case file are included.

Signature _____ Date 06/23/15

DOCUMENT CONTROL CHECK – All documents, forms, and data required for reporting are present and in the correct order. All required miscellaneous data (e.g., Traffic reports, Sample tags, Air bills, etc.) are also included.

Signature Desiree Hall Date 06/25/15