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.:	F9M21
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	17	✓	
3. **SDG Cover Sheet/Traffic Report**	18	31	✓	
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			✓	

01/23/2015 DH

9754768

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2

CASE NO.	45316	SDG NO.:	F9M21
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)	32	33	✓	
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)	34	35	✓	
GC/MS Instrument Performance Check (Form V VOA)	36	38	✓	
Internal Standard Area and RT Summary (Form VIII VOA)	39	40	✓	
b. Sample Data	41	225		
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)	226	267		
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	268	273	✓	
Blank Data	274	299	✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9M21
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)	300	301	✓	
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)	302	302	✓	
GC/MS Instrument Performance Check (Form V SV)	303	305	✓	
Internal Standard Area and RT Summary (Form VIII SV-1 and SV-2)	306	309	✓	
b. Sample Data	310	548		
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)	549	601		
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	602	610	✓	
Blank Data	611	628	✓	
MS/MSD Data (if requested by USEPA Region)	n/a		✓	
e. Raw GPC Data	629	633	✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9M21
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.]	634	829	✓	
7. Pesticides Data				
a. QC Summary				
Surrogate Recovery Summary (Form II PEST-1 and PEST-2)	830	830	✓	
Matrix Spike/Matrix Spike Duplicate Recovery Summary (Form III PEST-1 and PEST-2)	831	832	✓	
Laboratory Control Sample Recovery (Form III Pest-3 and PEST-4)	833	833	✓	
Method Blank Summary (Form IV PEST)	834	834	✓	
b. Sample Data	835	894		
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	895	1008		
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	F9M21
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	1009	1023	✓	
Matrix Spike/Matrix Spike Duplicate Data	1024	1031	✓	
Laboratory Control Sample Data	1032	1035	✓	
e. Raw GPC Data	1036	1055	✓	
f. Raw Florisil Data	1056	1073	✓	
8. **Aroclor Data**				
a. QC Summary				
Surrogate Recovery Summary (Form II ARO-1 and ARO-2)	1074	1074	✓	
Matrix Spike/Matrix Spike Duplicate Summary (Form III ARO-1 and ARO-2)	1075	1076	✓	
Laboratory Control Sample Recovery (Form III ARO-3 and ARO-4)	1077	1077	✓	
Method Blank Summary (Form IV ARO)	1078	1078	✓	
b. Sample Data	1079	1139		
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.:	F9M21
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
c. Standards Data	1140	1184		
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	1185	1195	✓	
Matrix Spike/Matrix Spike Duplicate Data	1196	1203	✓	
Laboratory Control Sample (LCS) Data	1204	1207	✓	
e. Raw GPC Data (if performed)	1208	1210	✓	
9. **Miscellaneous Data**				
Original preparation and analysis forms or copies of preparation and analysis logbook pages	1211	1376	✓	
Internal sample and sample extract transfer chain-of-custody records	1377	1393	✓	
Screening records	1394	1453	✓	
All instrument output, including strip charts from screening activities (describe or list)				
Method Check/QC Reports/LCS	n/a		✓	
Percent Solids Determinations	1454	1454, TSL DH 6-23-15	✓	
10. **EPA Shipping/Receiving Documents**				
Airbills (no. of shipments 10)	1455	1464	✓	
Chain of Custody Records (Copies)	1465	1477	✓	
Sample Tags	1478	1478	✓	
Sample Log-in Sheet (Lab & DC-1)	1479	1489	✓	
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.:	F9M21
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	1490	1493	✓	
DCL Non-conformance/Corrective Action Reports	NA		✓	
12. **Other Records** (describe or list)				
Telephone Communication Log	NA		✓	
E-mail Communications	1494	1496	✓	
			✓	

13. **Comments**

n/a

Completed by: (CLP Lab) Desiree Hill (Signature) | Desiree Hill/DCO (Printed Name/Title) | 6/23/15 (Date)

Verified by: (CLP Lab) for Roxanne Olson (Signature) | Roxanne Olson/Manager (Printed Name/Title) | 6/23/15 (Date)

Audited by: (USEPA) (Signature) | (Printed Name/Title) | (Date)

960 W. LeVoy Drive
Salt Lake City, UT 84123
T: +1 801 266 7700
F: +1 801 268 9992
www.alsglobal.com

SDG Administrative Narrative

Contract: EPW11037

Case: 45316

SDG: F9M21

WO No(s): 1515542

Cooler # and Temperatures of each (upon receipt)

Cooler Number C15-	n/a	Arrival temperature was	4 °C
Cooler Number C15-	n/a	Arrival temperature was	4 °C
Cooler Number C15-	n/a	Arrival temperature was	4 °C
Cooler Number C15-	n/a	Arrival temperature was	4 °C
Cooler Number C15-	n/a	Arrival temperature was	4 °C
Cooler Number C15-	n/a	Arrival temperature was	4 °C
Cooler Number C15-	n/a	Arrival temperature was	4 °C
Cooler Number C15-	n/a	Arrival temperature was	4 °C

Communications:

Any sample receiving issues with this SDG are fully documented through the email communications which are included as a portion of this SDG Narrative and immediately follow this page. Copies of each email communication are also located in the communication section of this datapackage. In addition, any analytical issues pertinent to a given fraction are fully documented by the analyst in the associated narrative for the applicable fraction.

Comments:

None

Signature: Desiree Hall Date: 04/23/2015
Document Control Officer

960 W. LeVoy Drive
Salt Lake City, UT 84123
T: +1 801 266 7700
F: +1 801 268 9992
www.alsglobal.com

SDG Administrative Narrative

Contract: EPW11037

Case: 45316

SDG: F9M21

WO No(s): 1515542

Cooler # and Temperatures of each (upon receipt)

Cooler Number C15-	n/a	Arrival temperature was	4 °C
Cooler Number C15-	n/a	Arrival temperature was	4 °C
Cooler Number C15-		Arrival temperature was	°C
Cooler Number C15-		Arrival temperature was	°C
Cooler Number C15-		Arrival temperature was	°C
Cooler Number C15-		Arrival temperature was	°C
Cooler Number C15-		Arrival temperature was	°C
Cooler Number C15-		Arrival temperature was	°C

06/23/2015 DF

Communications:

Any sample receiving issues with this SDG are fully documented through the email communications which are included as a portion of this SDG Narrative and immediately follow this page. Copies of each email communication are also located in the communication section of this datapackage. In addition, any analytical issues pertinent to a given fraction are fully documented by the analyst in the associated narrative for the applicable fraction.

Comments:

None

Signature: Desiree Hill Date: 06/23/2015
Document Control Officer

Roxanne Olson

From: Margaret T Jarosz <mjarosz@csc.com>
Sent: Thursday, June 04, 2015 3:29 PM
To: Roxanne Olson
Cc: Humphrey.marvelyn@Epa.gov; Gorostiza.Sylvia@epa.gov; Perez, Myra; Flores, Raymond
Subject: Region 06 | Case 45316 | Lab DATAC | Issue Discrepancies with tags, jars, and/or COC | FINAL

Roxy,

Issue: The CLP ID for SVOA/SVSIM soil sample F9M23 was listed on two different COCs. The COC ending in-0075 didn't have that sample in the cooler. The laboratory received sample F9M24 for SV/SVSIM. The COC ending in -0077 is the correct cooler that the laboratory received F9M23 on. The laboratory will need a updated COC that includes F9M24 for this analysis. It is listed on all of the other COCs for PEST/PCB/VOA/% Moist so the lab knows it is a valid sample ID.
Resolution: Per Region 6, the laboratory will note the discrepancy in the SDG Narrative and proceed with analysis unless they are missing time and date of collection, and/or station location information. If the laboratory is missing container information, they should notify CSC ASAP.

Please let me know if you have any questions. To waive any defect(s) associated with this issue, please contact your Regional CLP COR.

Thanks,
MARGARET T. JAROSZ
Environmental Coordinator-Regions 1, 4, 6, 7, ORD, GLNPO, and ASB (QB/PE)
CSC

6361 Walker Lane Alexandria, VA 22310
Civil Division | mjarosz@csc.com | www.csc.com

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----- Forwarded by Margaret T Jarosz/USA/CSC on 06/04/2015 05:27 PM -----

From: "Perez, Myra" <perez.myra@epa.gov>
To: Margaret T Jarosz/USA/CSC@CSC
Cc: "Humphrey, Marvelyn" <humphrey.marvelyn@epa.gov>, "Gorostiza, Sylvia" <Gorostiza.Sylvia@epa.gov>, "Flores, Raymond" <flores.raymond@epa.gov>
Date: 06/04/2015 05:06 PM
Subject: RE: Region 06 | Case 45316 | Lab DATAC | Issue Discrepancies with tags, jars, and/or COC - R6 response

---

Margaret – Please notify the lab to note the discrepancy in the SDG narrative and proceed with analysis unless they are missing time & date of collection, and/or station location information. The sampler will submit a-memo-to-file once they have completed the sampling. If the lab is missing container information, they should notify SMO ASAP.

Thank you.

Myra Perez
R6 CLP RSCC
281-983-2130

From: Margaret T Jarosz [mailto:mjarosz@csc.com]

Sent: Wednesday, June 03, 2015 3:41 PM
To: Humphrey, Marvelyn; Gorostiza, Sylvia; Perez, Myra; Flores, Raymond
Subject: Region 06 | Case 45316 | Lab DATAC | Issue Discrepancies with tags, jars, and/or COC

Good afternoon,
DATAC is reporting the following issue with Case 45316. Please advise.

Issue: The CLP ID for SVOA/SVSIM soil sample F9M23 was listed on two different COCs. The COC ending in-0075 didn't have that sample in the cooler. The laboratory received sample F9M24 for SV/SVSIM. The COC ending in -0077 is the correct cooler that the laboratory received F9M23 on. The laboratory will need a updated COC that includes F9M24 for this analysis. It is listed on all of the other COCs for PEST/PCB/VOA/% Moist so the lab knows it is a valid sample ID.

Thanks,
MARGARET T. JAROSZ
Environmental Coordinator-Regions 1, 4, 6, 7, ORD, GLNPO, and ASB (QB/PE)
CSC

6361 Walker Lane Alexandria, VA 22310
Civil Division | mjarosz@csc.com | www.csc.com

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----- Forwarded by Margaret T Jarosz/USA/CSC on 06/03/2015 04:37 PM -----

From: Roxanne Olson <Roxanne.Olson@ALSGlobal.com>
To: Margaret T Jarosz/USA/CSC@CSC
Date: 06/03/2015 03:12 PM
Subject: FW: Organic Case 45316

Please see Mere's comments below.

Roxanne Olson

Client Services Manager/Project Manager
ALS Life Sciences Division | Environmental

From: Meredith D. Edwards
Sent: Wednesday, June 03, 2015 11:41 AM
To: Roxanne Olson
Cc: Jessica Helland
Subject: Organic Case 45316

Please advise Region 6 that CLP ID for SVOA/SVSIM soil sample F9M23 was listed on two different TR's. The TR ending in-0075 didn't have that sample in the cooler. I received F9M24 for SV/SVSIM. The TR ending in -0077 is the correct cooler that I received F9M23 on. I will need a updated TR that includes F9M24 for this analysis. It is listed on all of the other TR's for PEST/PCB/VOA/% Moist so I know it is a valid sample ID.
Thanks
Mere

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SDG Narrative
Low/Medium Volatiles

Contract: EPW11037 **Case:** 45316
Laboratory: ALS Environmental **SDG:** F9M21
Modification Reference Number: NA

EPA No.	ALS Sample	pH	Dilution	EPA No.	ALS Sample	pH	Dilution
F9M21	1515542001	NA	None	F9M32	1515542014	NA	None
F9M22	1515542002	NA	None	F9M33	1515542015	NA	None
F9M23	1515542003	NA	None	F9M34	1515542016	NA	None
F9M24	1515542004	NA	None	F9M34RE	1515542016RE	NA	None
F9M25	1515542005	NA	None	F9M35	1515542017	NA	None
F9M26	1515542006	NA	None	F9M37	1515542018	NA	None
F9M27	1515542007	NA	None	F9M38	1515542019	NA	None
F9M28	1515542010	NA	None	F9M39	1515542020	NA	None
F9M29	1515542011	NA	None	F9M39RE	1515542020RE	NA	None
F9M30	1515542012	NA	None	F9M40	1515542021	NA	None
F9M30RE	1515542012RE	NA	None	F9M41	1515542022	NA	None
F9M31	1515542013	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.

Christopher Q. Coleman
Chemist
Volatile Organic Analysis Section

SDG Narrative
Semivolatiles Fraction

Contract Number: EPW11037
Case Number: 45316
SDG Number: F9M21
SOW Number: SOM01.2
Laboratory Name: ALS Environmental

Sample Number	ALS Sample ID	Dilution	Fraction
EPA ID	Lab ID	Dilution	Fraction
F9M21	1515542001	30	SVOA
F9M21	1515542001	30	SVOA SIM
F9M22	1515542002	10	SVOA
F9M22	1515542002	10	SVOA SIM
F9M23	1515542003	30	SVOA
F9M23	1515542003	200	SVOA SIM
F9M24	1515542004	30	SVOA
F9M24	1515542004	60	SVOA SIM
F9M25	1515542005	20	SVOA
F9M25	1515542005	20	SVOA SIM
F9M26	1515542006	20	SVOA
F9M26	1515542006	20	SVOA SIM
F9M27	1515542007	5	SVOA
F9M27	1515542007	5	SVOA SIM
F9M28	1515542010	10	SVOA
F9M28	1515542010	10	SVOA SIM
F9M29	1515542011	5	SVOA
F9M29	1515542011	5	SVOA SIM
F9M30	1515542012	5	SVOA
F9M30	1515542012	5	SVOA SIM
F9M31	1515542013	10	SVOA
F9M31	1515542013	10	SVOA SIM
F9M32	1515542014	10	SVOA
F9M32	1515542014	10	SVOA SIM
F9M33	1515542015	5	SVOA
F9M33	1515542015	5	SVOA SIM
F9M34	1515542016	10	SVOA
F9M34	1515542016	10	SVOA SIM
F9M35	1515542017	10	SVOA
F9M35	1515542017	10	SVOA SIM
F9M37	1515542018	10	SVOA
F9M37	1515542018	20	SVOA SIM
F9M38	1515542019	10	SVOA
F9M38	1515542019	10	SVOA SIM
F9M39	1515542020	5	SVOA
F9M39	1515542020	5	SVOA SIM
F9M40	1515542021	10	SVOA
F9M40	1515542021	20	SVOA SIM
F9M41	1515542022	5	SVOA
F9M41	1515542022	5	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.

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	stop
SSTD040GX	Caprolactam	812	841
SSTD080GX	Caprolactam	814	850
F9M23	Benzo(b)fluoranthene	2614	2627
F9M40	Benzo(k)fluoranthene	2624	2633

For SIM analysis:

Sample	Analyte	Scan start	stop
F9M21	Pyrene	1738	1748
F9M22	Pyrene	1738	1749
F9M23	Benzo(b)fluoranthrene	2408	2425
F9M26	Pyrene	1738	1748
F9M27	Pyrene	1739	1748
F9M28	Pyrene	1738	1749
F9M31	Pyrene	1738	1748
F9M32	Pyrene	1738	1747
F9M32	Benzo(k)fluoranthrene	2423	2435
F9M33	Pyrene	1738	1748
F9M33	Benzo(k)fluoranthrene	2423	2433
F9M34	Benzo(k)fluoranthrene	2423	2434
F9M35	Benzo(k)fluoranthrene	2423	2433
F9M37	Benzo(k)fluoranthrene	2423	2432
F9M38	Pyrene	1738	1747
F9M39	Pyrene	1738	1747
F9M40	Benzo(k)fluoranthrene	2423	2433
F9M41	Benzo(k)fluoranthrene	2423	2433

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 18, 2015

Steven Yourstone
Chemist
Semivolatile Organic Analysis Section

SDG Narrative
Pesticides

Laboratory Name: ALS Laboratory Group
Case: 45316
SDG: F9M21
EPA Sample Numbers: F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M27MS, F9M27MSD, F9M28, F9M29, F9M30, F9M31, F9M32, F9M33, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, and F9M41.
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: Sample F9M23 was diluted 1:5 at the instrument based on extract color to protect the integrity of the instrument.

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

LCS Analysis: All recoveries were within established limits.

MS/MSD Analysis: All recoveries and RPDs 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:

	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):

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

$$2.31 \text{ ug/kg} = \frac{(14051)(5000 \text{ uL})(1)(10000/5000)}{(1020000)(2 \text{ uL})(30 \text{ g})(1)}$$

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.

06/22/15

Steven J. Sagers
Pesticide Chemist

Date

DATA CHEM LABORATORIES, INC.

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

ALS

SDG Narrative
Aroclors

Laboratory Name: ALS Environmental
Case: 45316
SDG: F9M21
EPA Sample Numbers: F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M27MS, F9M27MSD, F9M28, F9M29, F9M30, F9M31, F9M32, F9M33, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41.
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.

DataChem Laboratories, Inc.
Part of the ALS Laboratory Group
960 West LeVoy Drive, Salt Lake City, Utah 84123
Phone 801 266 7700 Fax 801 268 9992 www.datachem.com www.alsenviro.com
A Campbell Brothers Limited Company

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.

Nadjla Borges — 06/17/15
Chemist — Date

Sample Delivery Group (SDG)
Cover Sheet

SDG Number: F9M21

[X] ARO [X] PEST [X] BNA [X] BNASIM [ ] VT [ ] VOASIM [X] 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) F9M21	7) F9M27	13) F9M33	19) F9M40
2) F9M22	8) F9M28	14) F9M34	20) F9M41
3) F9M23	9) F9M29	15) F9M35	21)
4) F9M24	10) F9M30	16) F9M37	22)
5) F9M25	11) F9M31	17) F9M38	23)
6) F9M26	12) F9M32	18) F9M39	24)

F9M21	F9M41
First Sample in SDG	Last Sample in SDG
06/03/15	06/03/15
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: /S/ Roxanne Olson Date: 6/4/2015 7:54:56 AM

(/S/ is an electronic signature that complies with 21 CFR Part 11)

1515542

USEPA CLP COC (LAB COPY)

DateShipped: 6/2/2015

CarrierName: FedEx

AirbillNo: 773737015872

CHAIN OF CUSTODY RECORD

F9M21

Case #: 45316

Cooler #:

No: 6-060215-181745-0082

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-011-002-06-51	F9M21	Soil/ START	Composite	VOA(21)	1428 (Ice) (3)	011	06/02/2015 08:15	
WO-011-002-12-51	F9M22	Soil/ START	Composite	VOA(21)	1433 (Ice) (3)	011	06/02/2015 08:20	
WO-011-002-24-51	F9M23	Soil/ START	Composite	VOA(21)	1438 (Ice) (3)	011	06/02/2015 08:25	
WO-011-002-24-52	F9M24	Soil/ START	Composite	VOA(21)	1443 (Ice) (3)	011	06/02/2015 08:30	
WO-011-001-06-51	F9M25	Soil/ START	Composite	VOA(21)	1448 (Ice) (3)	011	06/02/2015 08:55	
WO-011-001-12-51	F9M26	Soil/ START	Composite	VOA(21)	1453 (Ice) (3)	011	06/02/2015 09:00	
WO-011-001-24-51	F9M27	Soil/ START	Composite	VOA(21)	1458 (Ice) (3)	011	06/02/2015 09:05	
WO-011-003-06-51	F9M28	Soil/ START	Composite	VOA(21)	1463 (Ice) (3)	011	06/02/2015 09:10	
WO-011-003-12-51	F9M29	Soil/ START	Composite	VOA(21)	1468 (Ice) (3)	011	06/02/2015 09:15	
WO-011-003-24-51	F9M30	Soil/ START	Composite	VOA(21)	1473 (Ice) (3)	011	06/02/2015 09:20	

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
Samples/Analysis	Weston	6/2/15 @ 2100	FedEx	6/2/15 @ 2100	
	FedEx	6/3/2015 10:07	Meredith Edwards DATAC	6/3/2015 10:07	good

1559

USEPA CLP COC (LAB COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737015872

CHAIN OF CUSTODY RECORD F9M21

Case #: 45316
Cooler #:

No: 6-060215-181745-0082
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-011-004-06-51	F9M31	Soil/ START	Composite	VOA(21)	1478 (Ice) (3)	011	06/02/2015 09:50	
WO-011-004-12-51	F9M32	Soil/ START	Composite	VOA(21)	1483 (Ice) (3)	011	06/02/2015 09:55	
WO-011-004-24-51	F9M33	Soil/ START	Composite	VOA(21)	1488 (Ice) (3)	011	06/02/2015 10:00	
WO-002-001-00-51	F9M34	Soil/ START	Composite	VOA(21)	1493 (Ice) (3)	011	06/02/2015 11:20	
WO-002-001-00-52	F9M35	Soil/ START	Composite	VOA(21)	1498 (Ice) (3)	002	06/02/2015 11:25	
WO-002-002-00-51	F9M36	Soil/ START	Composite	VOA(21)	1503 (Ice) (3)	002	06/02/2015 11:45	
WO-002-003-00-51	F9M37	Soil/ START	Composite	VOA(21)	1508 (Ice) (3)	002	06/02/2015 13:30	
WO-002-004-00-51	F9M38	Soil/ START	Composite	VOA(21)	1513 (Ice) (3)	002	06/02/2015 13:05	
WO-002-004-00-52	F9M39	Soil/ START	Composite	VOA(21)	1518 (Ice) (3)	002	06/02/2015 13:10	
WO-002-003-06-51	F9M40	Soil/ START	Composite	VOA(21)	1523 (Ice) (3)	002	06/02/2015 13:40	

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
Samples/Analysis	Weston	6/2/15 @ 2100	FedEx	6/2/15 @ 2100	
	FedEx	6/3/2015 10:17	Meredith Edwards DAMAC	6/3/2015 1000	good

USEPA CLP COC (LAB COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737015872

CHAIN OF CUSTODY RECORD F9M21

Case #: 45316
Cooler #:

No: 6-060215-181745-0082
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-002-003-12-51	F9M41	Soil/ START	Composite	VOA(21)	1528 (Ice) (3)	002	06/02/2015 13:45	SDG Final Sample
WO-002-001-06-51	F9M42	Soil/ START	Composite	VOA(21)	1533 (Ice) (3)	002	06/02/2015 14:30	
WO-002-001-12-51	F9M43	Soil/ START	Composite	VOA(21)	1538 (Ice) (3)	002	06/02/2015 14:35	
WO-002-002-06-51	F9M44	Soil/ START	Composite	VOA(21)	1543 (Ice) (3)	002	06/02/2015 16:30	6/3/2015
WO-002-004-06-51	F9M45	Soil/ START	Composite	VOA(21)	1548 (Ice) (3)	002	06/02/2015 16:45	
WO-011-002-44-20150602	F9M46	Water/ START	Grab	VOA(21)	1552 (HCl) (3)	FieldQC	06/02/2015 17:25	

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
Samples/Analysis	[signature] Weston	6/2/15 @ 2100	FedEx	6/2/15 @ 2100	
	FedEx	6/3/2015 10:07	Meredith Edwards DATAL	6/3/2015/10:07	good

USEPA CLP COC (LAB COPY) | **CHAIN OF CUSTODY RECORD** F9M21 | **No: 6-060215-183123-0083**

DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 7737370066238

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-011-002-06-51	F9M21	Soil/ START	Composite	CLP Moisture(21)	1431 (Ice) (1)	011	06/02/2015 08:15	
WO-011-002-12-51	F9M22	Soil/ START	Composite	CLP Moisture(21)	1436 (Ice) (1)	011	06/02/2015 08:20	
WO-011-002-24-51	F9M23	Soil/ START	Composite	CLP Moisture(21)	1441 (Ice) (1)	011	06/02/2015 08:25	
WO-011-002-24-52	F9M24	Soil/ START	Composite	CLP Moisture(21)	1446 (Ice) (1)	011	06/02/2015 08:30	
WO-011-001-06-51	F9M25	Soil/ START	Composite	CLP Moisture(21)	1451 (Ice) (1)	011	06/02/2015 08:55	
WO-011-001-12-51	F9M26	Soil/ START	Composite	CLP Moisture(21)	1456 (Ice) (1)	011	06/02/2015 09:00	
WO-011-001-24-51	F9M27	Soil/ START	Composite	CLP Moisture(21)	1461 (Ice) (1)	011	06/02/2015 09:05	
WO-011-003-06-51	F9M28	Soil/ START	Composite	CLP Moisture(21)	1466 (Ice) (1)	011	06/02/2015 09:10	
WO-011-003-12-51	F9M29	Soil/ START	Composite	CLP Moisture(21)	1471 (Ice) (1)	011	06/02/2015 09:15	
WO-011-004-06-51	F9M31	Soil/ START	Composite	CLP Moisture(21)	1481 (Ice) (1)	011	06/02/2015 09:50	

Special Instructions:	**Shipment for Case Complete? N**
	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
Samples/Analysis	Weston	6/2/15 @ 2100	FedEx	6/2/15 @ 2100	
	FEDEX	6/3/2015/10:07	DATAL	6/3/2015/10:07	good

5932

USEPA CLP COC (LAB COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 7737370066238

CHAIN OF CUSTODY RECORD F9M21

Case #: 45316
Cooler #:

No: 6-060215-183123-0083
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-011-004-12-51	F9M32	Soil/ START	Composite	CLP Moisture(21)	1486 (Ice) (1)	011	06/02/2015 09:55	
WO-011-004-24-51	F9M33	Soil/ START	Composite	CLP Moisture(21)	1491 (Ice) (1)	011	06/02/2015 10:00	
WO-002-001-00-52	F9M35	Soil/ START	Composite	CLP Moisture(21)	1501 (Ice) (1)	002	06/02/2015 11:25	
WO-002-002-00-51	F9M36	Soil/ START	Composite	CLP Moisture(21)	1506 (Ice) (1)	002	06/02/2015 11:45	
WO-002-003-00-51	F9M37	Soil/ START	Composite	CLP Moisture(21)	1511 (Ice) (1)	002	06/02/2015 13:30	
WO-002-004-00-51	F9M38	Soil/ START	Composite	CLP Moisture(21)	1516 (Ice) (1)	002	06/02/2015 13:05	
WO-002-004-00-52	F9M39	Soil/ START	Composite	CLP Moisture(21)	1521 (Ice) (1)	002	06/02/2015 13:10	
WO-002-003-06-51	F9M40	Soil/ START	Composite	CLP Moisture(21)	1526 (Ice) (1)	002	06/02/2015 13:40	
WO-002-003-12-51	F9M41	Soil/ START	Composite	CLP Moisture(21)	1531 (Ice) (1)	002	06/02/2015 13:45	Field Sample
WO-002-001-06-51	F9M42	Soil/ START	Composite	CLP Moisture(21)	1536 (Ice) (1)	002	06/02/2015 14:30	

Special Instructions:	**Shipment for Case Complete? N**
	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
Samples/Analysis	Weston	6/2/15 @ 2100	FedEx	6/2/15 @ 2100	
	FedEx	6/3/2015 10:07	Meredith Edwards DATAC	6/3/2015 10:07	good

USEPA CLP COC (LAB COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737068486

CHAIN OF CUSTODY RECORD F9M21

Case #: 45316
Cooler #:

No: 6-060215-165115-0078
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-011-002-24-51	F9M23	Soil/ START	Composite	PEST+ARO(21)	1440 (Ice) (2)	011	06/02/2015 08:25	
WO-011-001-06-51	F9M25	Soil/ START	Composite	PEST+ARO(21)	1450 (Ice) (2)	011	06/02/2015 08:55	
WO-011-001-12-51	F9M26	Soil/ START	Composite	PEST+ARO(21)	1455 (Ice) (2)	011	06/02/2015 09:00	
WO-011-001-24-51	F9M27	Soil/ START	Composite	PEST+ARO(21)	1460 (Ice) (4)	011	06/02/2015 09:05	
WO-002-001-00-52	F9M35	Soil/ START	Composite	PEST+ARO(21)	1500 (Ice) (2)	002	06/02/2015 11:25	
WO-002-004-00-51	F9M38	Soil/ START	Composite	PEST+ARO(21)	1515 (Ice) (2)	002	06/02/2015 13:05	
WO-002-004-00-52	F9M39	Soil/ START	Composite	PEST+ARO(21)	1520 (Ice) (2)	002	06/02/2015 13:10	

Sample(s) to be used for Lab QC: WO-011-001-24-51 Tag 1460	**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	Rich Weston	6/2/15 @ 2100	FedEx	6/2/15 @ 2100	
	FedEx	6/3/2015 10:47	Meredith Edwards DATAC	6/3/2015 10:47	good

USEPA CLP COC (LAB COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737036285

CHAIN OF CUSTODY RECORD F9M21

Case #: 45316
Cooler #:

No: 6-060215-175343-0080
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-011-003-06-51	F9M28	Soil/ START	Composite	PEST+ARO(21)	1465 (Ice) (2)	011	06/02/2015 09:10	
WO-011-003-12-51	F9M29	Soil/ START	Composite	PEST+ARO(21)	1470 (Ice) (2)	011	06/02/2015 09:15	
WO-002-003-00-51	F9M37	Soil/ START	Composite	PEST+ARO(21)	1510 (Ice) (2)	002	06/02/2015 13:30	
WO-002-003-06-51	F9M40	Soil/ START	Composite	PEST+ARO(21)	1525 (Ice) (2)	002	06/02/2015 13:40	
WO-002-003-12-51	F9M41	Soil/ START	Composite	PEST+ARO(21)	1530 (Ice) (2)	002	06/02/2015 13:45	Spoon Fuel Sample
WO-002-001-06-51	F9M42	Soil/ START	Composite	PEST+ARO(21)	1535 (Ice) (2)	002	06/02/2015 14:30	
WO-002-001-12-51	F9M43	Soil/ START	Composite	PEST+ARO(21)	1540 (Ice) (2)	002	06/02/2015 14:35	

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	6/2/15 @ 2100	FedEx	6/2/15 @ 2100	
	FedEx	6/3/2015 10:07	Meredith Edwards DATAL	6/3/2015 10:07	good

00025

USEPA CLP COC (LAB COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737106995

CHAIN OF CUSTODY RECORD F9M21

Case #: 45316
Cooler #:

No: 6-060215-153540-0076
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-011-002-06-51	F9M21	Soil/ START	Composite	PEST+ARO(21)	1430 (Ice) (2)	011	06/02/2015 08:15	
WO-011-002-12-51	F9M22	Soil/ START	Composite	PEST+ARO(21)	1435 (Ice) (2)	011	06/02/2015 08:20	
WO-011-002-24-52	F9M24	Soil/ START	Composite	PEST+ARO(21)	1445 (Ice) (2)	011	06/02/2015 08:30	
WO-011-004-06-51	F9M31	Soil/ START	Composite	PEST+ARO(21)	1480 (Ice) (2)	011	06/02/2015 09:50	
WO-011-004-12-51	F9M32	Soil/ START	Composite	PEST+ARO(21)	1485 (Ice) (2)	011	06/02/2015 09:55	
WO-011-004-24-51	F9M33	Soil/ START	Composite	PEST+ARO(21)	1490 (Ice) (2)	011	06/02/2015 10:00	
WO-002-002-00-51	F9M36	Soil/ START	Composite	PEST+ARO(21)	1505 (Ice) (4)	002	06/02/2015 11:45	

Sample(s) to be used for Lab QC: WO-002-002-00-51 Tag 1505	**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
			Meredith Edwards DATAC	6/3/2015 10:07	good

00026

USEPA CLP COC (LAB COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773732640238

CHAIN OF CUSTODY RECORD F9M21

Case #: 45316
Cooler #:

No: 6-060215-190153-0086
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-011-003-24-51	F9M30	Soil/ START	Composite	PEST+ARO(21), CLP Moisture(21)	1475 (Ice), 1476 (Ice) (3)	011	06/02/2015 09:20	MEE 6/3/2015
WO-002-001-00-51	F9M34	Soil/ START	Composite	PEST+ARO(21), CLP Moisture(21)	1495 (Ice), 1496 (Ice) (3)	011	06/02/2015 11:20	
WO-002-002-06-51	F9M44	Soil/ START	Composite	PEST+ARO(21), CLP Moisture(21)	1545 (Ice), 1546 (Ice) (3)	002	06/02/2015 16:30	
WO-002-004-06-51	F9M45	Soil/ START	Composite	PEST+ARO(21), CLP Moisture(21)	1550 (Ice), 1551 (Ice) (3)	002	06/02/2015 16:45	

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

Analysis Key: PEST+ARO=CLP Pest + ARO, CLP Moisture=CLP % Moisture

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
4/samples	[signature] Weston	6/2/15 2100	Fedex	6/2/15 2100	
	FedEx	6/3/2015/10:07	[signature] DATAL	6/3/2015/10:07	good

USEPA CLP COC (LAB COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737121790

CHAIN OF CUSTODY RECORD

F9M21

Case #: 45316
Cooler #:

No: 6-060215-152803-0075
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-011-002-06-51	F9M21	Soil/ START	Composite	SVOA/SVOASIM(21)	1429 (Ice) (2)	011	06/02/2015 08:15	
WO-011-002-12-51	F9M22	Soil/ START	Composite	SVOA/SVOASIM(21)	1434 (Ice) (2)	011	06/02/2015 08:20	
WO-011-002-24-51	F9M23	Soil/ START	Composite	SVOA/SVOASIM(21)	1439 (Ice) (2)	011	06/02/2015 08:25	recd F9M24
WO-011-004-06-51	F9M31	Soil/ START	Composite	SVOA/SVOASIM(21)	1479 (Ice) (2)	011	06/02/2015 09:50	
WO-011-004-12-51	F9M32	Soil/ START	Composite	SVOA/SVOASIM(21)	1484 (Ice) (2)	011	06/02/2015 09:55	
WO-011-004-24-51	F9M33	Soil/ START	Composite	SVOA/SVOASIM(21)	1489 (Ice) (2)	011	06/02/2015 10:00	
WO-002-002-00-51	F9M36	Soil/ START	Composite	SVOA/SVOASIM(21)	1504 (Ice) (2)	002	06/02/2015 11:45	

Special Instructions: No lab QC for SVOA/SVOASIM 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	6/2/15 @ 2100	FedEx	6/2/15 @ 2100	
	FedEx	6/3/2015 10:07	Meredith Edwards DATAC	6/3/2015 10:07	good

USEPA CLP COC (LAB COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737001074

CHAIN OF CUSTODY RECORD F9M21

Case #: 45316
Cooler #:

No: 6-060215-185026-0034
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-011-003-24-51	F9M30	Soil/ START	Composite	SVOA/SVOASIM(21)	1474 (Ice) (2)	011	06/02/2015 09:20	
WO-002-001-00-51	F9M34	Soil/ START	Composite	SVOA/SVOASIM(21)	1494 (Ice) (2)	011	06/02/2015 11:20	
WO-002-002-06-51	F9M44	Soil/ START	Composite	SVOA/SVOASIM(21)	1544 (Ice) (2)	002	06/02/2015 16:30	
WO-002-004-06-51	F9M45	Soil/ START	Composite	SVOA/SVOASIM(21)	1549 (Ice) (2)	002	06/02/2015 16:45	

Special Instructions: No Lab QC on SVIA/SVOASIM 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
4/sample	[signature] Weston	6/2/15 2100	Fedex	6/2/15 2100	
	FedEx	6/3/2015/10:07	Meredith Edwards DATAC	6/3/2015/10:07	good

USEPA CLP COC (LAB COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737027052

CHAIN OF CUSTODY RECORD F9M21

Case #: 45316
Cooler #:

No: 6-060215-175849-0081
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-011-003-06-51	F9M28	Soil/ START	Composite	SVOA/SVOASIM(21)	1464 (Ice) (2)	011	06/02/2015 09:10	
WO-011-003-12-51	F9M29	Soil/ START	Composite	SVOA/SVOASIM(21)	1469 (Ice) (2)	011	06/02/2015 09:15	
WO-002-003-00-51	F9M37	Soil/ START	Composite	SVOA/SVOASIM(21)	1509 (Ice) (2)	002	06/02/2015 13:30	
WO-002-003-06-51	F9M40	Soil/ START	Composite	SVOA/SVOASIM(21)	1524 (Ice) (2)	002	06/02/2015 13:40	
WO-002-003-12-51	F9M41	Soil/ START	Composite	SVOA/SVOASIM(21)	1529 (Ice) (2)	002	06/02/2015 13:45	Solar Final Sample
WO-002-001-06-51	F9M42	Soil/ START	Composite	SVOA/SVOASIM(21)	1534 (Ice) (2)	002	06/02/2015 14:30	
WO-002-001-12-51	F9M43	Soil/ START	Composite	SVOA/SVOASIM(21)	1539 (Ice) (2)	002	06/02/2015 14:35	

Special Instructions: No Lab QC on SVOA/SVOASIM 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	6/2/15 @ 2100	FedEx	6/2/15 @ 2100	
	FedEx	6/3/2015 / 10:07	Meredith Edwards DATAC	6/3/2015 / 10:07	good

USEPA CLP COC (LAB COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737090477

CHAIN OF CUSTODY RECORD F9M21

Case #: 45316
Cooler #:

No: 6-060215-161253-0077
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-011-002-24-51	F9M23	Soil/ START	Composite	SVOA/SVOASIM(21)	1439 (Ice) (2)	011	06/02/2015 08:25	
WO-011-001-06-51	F9M25	Soil/ START	Composite	SVOA/SVOASIM(21)	1449 (Ice) (2)	011	06/02/2015 08:55	
WO-011-001-12-51	F9M26	Soil/ START	Composite	SVOA/SVOASIM(21)	1454 (Ice) (2)	011	06/02/2015 09:00	
WO-011-001-24-51	F9M27	Soil/ START	Composite	SVOA/SVOASIM(21)	1459 (Ice) (2)	011	06/02/2015 09:05	
WO-002-001-00-52	F9M35	Soil/ START	Composite	SVOA/SVOASIM(21)	1499 (Ice) (2)	002	06/02/2015 11:25	
WO-002-004-00-51	F9M38	Soil/ START	Composite	SVOA/SVOASIM(21)	1514 (Ice) (2)	002	06/02/2015 13:05	
WO-002-004-00-52	F9M39	Soil/ START	Composite	SVOA/SVOASIM(21)	1519 (Ice) (2)	002	06/02/2015 13:10	

Special Instructions: No Lab QC SVOA/SVOASIM	**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	6/2/15 2100	FedEx	6/2/15 2100	
	FedEx	6/3/2015/10:07	[signature] DATAL	6/3/2015/10:07	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.: F9M21

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	F9M21	96	96	73	110	96	101	107
02	F9M22	87	89	69	105	93	95	98
03	F9M23	91	91	71	97	94	96	102
04	F9M24	93	97	70	100	100	106	102
05	F9M25	94	95	74	62	95	95	110
06	F9M26	86	89	68	106	94	102	98
07	F9M27	90	91	72	79	94	92	99
08	F9M28	89	92	70	104	96	102	106
09	F9M29	91	92	70	122	98	106	106
10	F9M30	108	108	77	106	106	113	129 *
11	F9M30RE	95	96	73	122	98	102	112
12	F9M31	90	93	70	95	99	106	102
13	F9M32	91	93	71	90	98	100	109
14	F9M33	92	93	71	74	96	96	106
15	F9M34	101	103	76	69	107	105	121
16	F9M34RE	88	91	68	77	98	108	112
17	F9M35	94	96	72	80	100	108	110
18	F9M37	86	89	68	133	94	101	113
19	F9M38	87	89	69	108	93	100	111
20	F9M39	88	93	70	109	95	106	117
21	F9M39RE	93	96	71	87	101	113	115
22	F9M40	82	86	65	106	93	108	109
23	F9M41	84	86	67	99	93	103	107
24	VBLKS1	99	99	78	97	98	98	106
25	VBLKS2	87	86	69	111	90	96	99
26	VHBLKS1	82	85	64	106	95	106	98
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.: F9M21

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	F9M21	105	102	112	125	129	103	98	0
02	F9M22	95	97	101	107	95	94	97	0
03	F9M23	99	101	104	103	95	96	96	0
04	F9M24	102	97	108	108	103	104	102	0
05	F9M25	105	105	95	66	78	95	96	0
06	F9M26	97	97	106	116	120	108	100	0
07	F9M27	94	98	95	90	78	91	96	0
08	F9M28	105	101	103	111	110	99	96	0
09	F9M29	105	100	109	128	116	111	100	0
10	F9M30	127 *	108	125	129	115	115	101	2
11	F9M30RE	109	106	114	136	111	109	97	0
12	F9M31	102	98	101	102	116	112	100	0
13	F9M32	106	104	104	105	94	101	98	0
14	F9M33	102	103	99	89	90	98	98	0
15	F9M34	115	107	87	86	113	95	96	0
16	F9M34RE	111	104	96	95	128	102	96	0
17	F9M35	108	101	101	90	124	110	99	0
18	F9M37	108	104	114	147	121	100	95	0
19	F9M38	109	106	112	122	126	100	94	0
20	F9M39	116	107	116	122	145	110	95	0
21	F9M39RE	118	104	99	94	128	117	99	0
22	F9M40	112	105	103	110	148	106	95	0
23	F9M41	107	104	107	116	131	107	97	0
24	VBLKS1	99	99	102	118	109	102	101	0
25	VBLKS2	95	99	104	116	109	98	99	0
26	VHBLKS1	98	96	104	115	118	109	104	0
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.: F9M21

Lab File ID: SU59BLK Lab Sample ID: 450610

Instrument ID: 5972-S

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 06/08/2015

Level: (TRACE or LOW/MED) LOW Time Analyzed: 17:45

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	F9M21	1515542001	SU60C001	18:17
02	F9M22	1515542002	SU61C002	18:48
03	F9M23	1515542003	SU62C003	19:19
04	F9M24	1515542004	SU63C004	19:50
05	F9M25	1515542005	SU64C005	20:21
06	F9M26	1515542006	SU65C006	20:52
07	F9M27	1515542007	SU66C007	21:23
08	F9M28	1515542010	SU67C010	21:53
09	F9M29	1515542011	SU68C011	22:23
10	F9M30	1515542012	SU69C012	22:53
11	F9M31	1515542013	SU70C013	23:23
12	F9M32	1515542014	SU71C014	23:54
13	F9M33	1515542015	SU72C015	00:24
14	F9M34	1515542016	SU73C016	01:14
15	F9M35	1515542017	SU74C017	01:44
16	F9M30RE	1515542012RE	SU75R012	02:14
17				
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19				
20				
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25				
26				
27				
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.: F9M21

Lab File ID: SU81BLK Lab Sample ID: 450611

Instrument ID: 5972-S

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 06/09/2015

Level: (TRACE or LOW/MED) LOW Time Analyzed: 17:35

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	F9M37	1515542018	SU82C018	18:09
02	F9M38	1515542019	SU83C019	18:41
03	F9M39	1515542020	SU84C020	19:13
04	F9M40	1515542021	SU85C021	19:45
05	F9M41	1515542022	SU86C022	20:17
06	F9M34RE	1515542016RE	SU94R016	00:22
07	F9M39RE	1515542020RE	SU95R020	00:53
08	VHBLKS1	450612	SU98HBLK	02:26
09				
10				
11				
12				
13				
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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.: F9M21

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					
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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.: F9M21

Lab File ID: SU57BFB BFB Injection Date: 06/08/2015

Instrument ID: 5972-S BFB Injection Time: 16:17

GC Column: DB624 ID: 0.53 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	32.2
75	30.0 - 80.0% of mass 95	63.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120% of mass 95	65.7
175	5.0 - 9.0% of mass 174	4.8 (7.2) 1
176	95.0 - 101% of mass 174	63.6 (96.8) 1
177	5.0 - 9.0% of mass 176	4.3 (6.8) 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	SU58S50	06/08/2015	16:48
02	VBLKS1	450610	SU59BLK	06/08/2015	17:45
03	F9M21	1515542001	SU60C001	06/08/2015	18:17
04	F9M22	1515542002	SU61C002	06/08/2015	18:48
05	F9M23	1515542003	SU62C003	06/08/2015	19:19
06	F9M24	1515542004	SU63C004	06/08/2015	19:50
07	F9M25	1515542005	SU64C005	06/08/2015	20:21
08	F9M26	1515542006	SU65C006	06/08/2015	20:52
09	F9M27	1515542007	SU66C007	06/08/2015	21:23
10	F9M28	1515542010	SU67C010	06/08/2015	21:53
11	F9M29	1515542011	SU68C011	06/08/2015	22:23
12	F9M30	1515542012	SU69C012	06/08/2015	22:53
13	F9M31	1515542013	SU70C013	06/08/2015	23:23
14	F9M32	1515542014	SU71C014	06/08/2015	23:54
15	F9M33	1515542015	SU72C015	06/09/2015	00:24
16	F9M34	1515542016	SU73C016	06/09/2015	01:14
17	F9M35	1515542017	SU74C017	06/09/2015	01:44
18	F9M30RE	1515542012RE	SU75R012	06/09/2015	02:14
19	VSTD050S2	VSTD050S2	SU76F50	06/09/2015	02:43
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.: F9M21

Lab File ID: SU79BFB BFB Injection Date: 06/09/2015

Instrument ID: 5972-S BFB Injection Time: 16:32

GC Column: DB624 ID: 0.53 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	31.4
75	30.0 - 80.0% of mass 95	64.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120% of mass 95	61.3
175	5.0 - 9.0% of mass 174	5.0 (8.2) 1
176	95.0 - 101% of mass 174	61.3 (99.9) 1
177	5.0 - 9.0% of mass 176	4.4 (7.1) 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	SU80S50	06/09/2015	17:03
02	VBLKS2	450611	SU81BLK	06/09/2015	17:35
03	F9M37	1515542018	SU82C018	06/09/2015	18:09
04	F9M38	1515542019	SU83C019	06/09/2015	18:41
05	F9M39	1515542020	SU84C020	06/09/2015	19:13
06	F9M40	1515542021	SU85C021	06/09/2015	19:45
07	F9M41	1515542022	SU86C022	06/09/2015	20:17
08	F9M34RE	1515542016RE	SU94R016	06/10/2015	00:22
09	F9M39RE	1515542020RE	SU95R020	06/10/2015	00:53
10	VHBLKS1	450612	SU98HBLK	06/10/2015	02:26
11	VSTD050S4	VSTD050S4	SU99F50	06/10/2015	02:57
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.: F9M21

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

EPA Sample No.(VSTD#####): VSTD050S1 Date Analyzed: 06/08/2015

Lab File ID (Standard): SU58S50 Time Analyzed: 16:48

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

		IS1 (CBZ) AREA	#	RT	#	IS2 (DFB) AREA	#	RT	#	IS3 (DCB) AREA	#	RT	#
	12 HOUR STD	1330589		12.88		1595206		8.88		789708		16.25	
	UPPER LIMIT	2661178		13.38		3190412		9.38		1579416		16.75	
	LOWER LIMIT	665295		12.38		797603		8.38		394854		15.75	
	EPA SAMPLE NO.												
01	VBLKS1	1103657		12.83		1464409		8.84		652623		16.20	
02	F9M21	1064061		12.86		1438356		8.88		526469		16.21	
03	F9M22	1295572		12.86		1631555		8.87		719737		16.21	
04	F9M23	1149419		12.86		1507746		8.88		610710		16.22	
05	F9M24	1120232		12.86		1391955		8.87		594083		16.22	
06	F9M25	1087907		12.86		1532045		8.88		488173		16.21	
07	F9M26	1195835		12.85		1501164		8.88		675993		16.21	
08	F9M27	1169795		12.86		1485889		8.88		609930		16.22	
09	F9M28	1007948		12.86		1356207		8.88		477848		16.22	
10	F9M29	957405		12.87		1284113		8.88		480568		16.21	
11	F9M30	648483	*	12.86		991986		8.89		280820	*	16.22	
12	F9M31	978911		12.86		1253692		8.88		512516		16.22	
13	F9M32	974146		12.86		1339014		8.88		479387		16.22	
14	F9M33	1039537		12.86		1397527		8.88		518445		16.23	
15	F9M34	753986		12.82		1084699		8.83		261373	*	16.19	
16	F9M35	864353		12.86		1171757		8.87		417170		16.20	
17	F9M30RE	805497		12.86		1126172		8.88		340535	*	16.20	
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.: F9M21

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

EPA Sample No.(VSTD#####): VSTD050S3 Date Analyzed: 06/09/2015

Lab File ID (Standard): SU80S50 Time Analyzed: 17:03

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

		IS1 (CBZ) AREA	#	RT	#	IS2 (DFB) AREA	#	RT	#	IS3 (DCB) AREA	#	RT	#
	12 HOUR STD	1432581		12.86		1733598		8.88		846184		16.22	
	UPPER LIMIT	2865162		13.36		3467196		9.38		1692368		16.72	
	LOWER LIMIT	716291		12.36		866799		8.38		423092		15.72	
	EPA SAMPLE NO.												
01	VBLKS2	1290075		12.87		1670353		8.87		738229		16.22	
02	F9M37	1174903		12.85		1686153		8.87		507239		16.21	
03	F9M38	1130167		12.85		1620634		8.86		471875		16.20	
04	F9M39	1008084		12.84		1500484		8.86		419354	*	16.20	
05	F9M40	1140851		12.85		1622507		8.86		451636		16.20	
06	F9M41	1192489		12.84		1637908		8.86		518343		16.20	
07	F9M34RE	799420		12.85		1120408		8.88		321982	*	16.21	
08	F9M39RE	711634	*	12.85		1013267		8.87		312794	*	16.21	
09	VHBLKS1	1074241		12.83		1339343		8.86		610942		16.18	
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.

F9M21

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542001

Sample wt/vol: 5.02 (g/mL) g Lab File ID: SU60C001

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 18. Date Analyzed: 06/08/2015

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	41.	
75-15-0	Carbon disulfide	6.1	U
79-20-9	Methyl acetate	6.1	U
75-09-2	Methylene chloride	0.55	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	17.	
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.

F9M21

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542001

Sample wt/vol: 5.02 (g/mL) g Lab File ID: SU60C001

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 18. Date Analyzed: 06/08/2015

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	6.1	
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	6.1	U
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.
F9M21

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542001
Sample wt/vol: 5.02 (g/mL) g Lab File ID: SU60C001
Level: (TRACE or LOW/MED) LOW Date Received: 06/03/2015
% Moisture: not dec. 18. Date Analyzed: 06/08/2015
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		

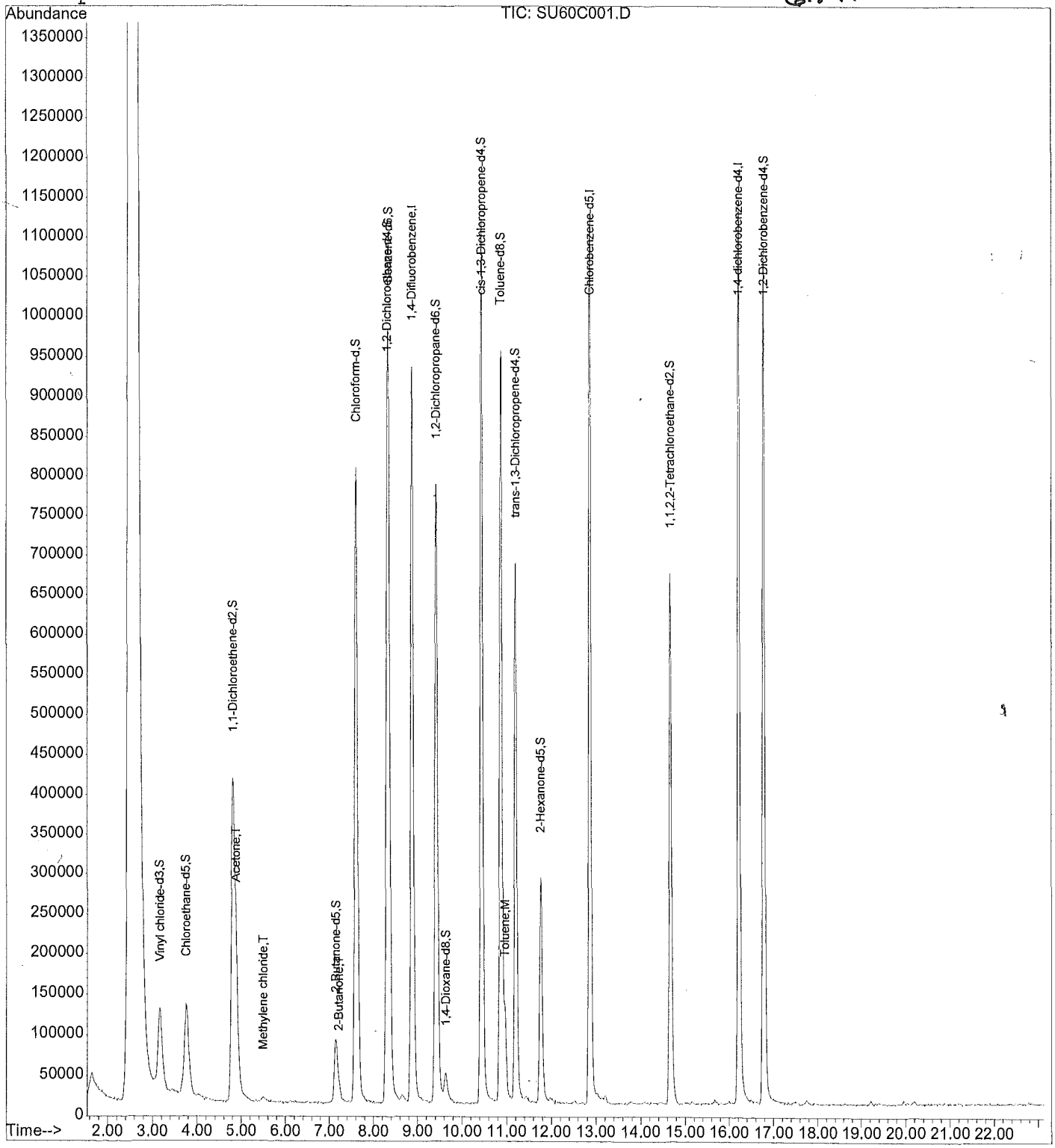
[1] EPA-designated Registry Number.

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU60C001.D
Acq Time : 06/08/2015 18:17 Operator: CQC
Sample : 1515542001 F9M21 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 8 18:50 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



Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU60C001.D
Acq Time : 06/08/2015 18:17 Operator: CQC
Sample : 1515542001 F9M21 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 8 18:50 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	1438356	50.00 ug/Kg	108.96
30) Chlorobenzene-d5	12.86	117	1064061	50.00 ug/Kg	99.41
62) 1,4-dichlorobenzene-d4	16.21	152	526469	50.00 ug/Kg	86.53
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.16	65	439103	47.84 ug/Kg	95.68%
8) Chloroethane-d5	3.75	69	418536	47.92 ug/Kg	95.85%
11) 1,1-Dichloroethene-d2	4.81	63	1110462	36.69 ug/Kg	73.39%
22) 2-Butanone-d5	7.13	46	274273	110.09 ug/Kg	110.09%
25) Chloroform-d	7.61	84	1415954	47.76 ug/Kg	95.53%
27) 1,2-Dichloroethane-d4	8.30	65	686089	50.63 ug/Kg	101.26%
29) 1,4-Dioxane-d8	9.63	96	53951	1286.65 ug/Kg	128.67%
35) Benzene-d6	8.33	84	1404169	53.66 ug/Kg	107.32%
39) 1,2-Dichloropropane-d6	9.42	67	673901	52.29 ug/Kg	104.58%
42) cis-1,3-Dichloropropene-d4	10.44	79	1197311	55.45 ug/Kg	110.91%
44) trans-1,3-Dichloropropene-	11.20	79	695457	55.86 ug/Kg	111.72%
49) Toluene-d8	10.87	98	1209506	51.09 ug/Kg	102.19%
52) 2-Hexanone-d5	11.76	63	205646	124.63 ug/Kg	124.63%
61) 1,1,2,2-Tetrachloroethane-	14.66	84	685773	51.59 ug/Kg	103.19%
67) 1,2-Dichlorobenzene-d4	16.78	152	492158	48.77 ug/Kg	97.53%
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	90037	33.58 ug/Kg	100
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.50	84	4547	0.45 ug/Kg#	61
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	7.22	43	44544	14.30 ug/Kg#	89
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

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

000415

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU60C001.D
Acq Time : 06/08/2015 18:17 Operator: CQC
Sample : 1515542001 F9M21 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

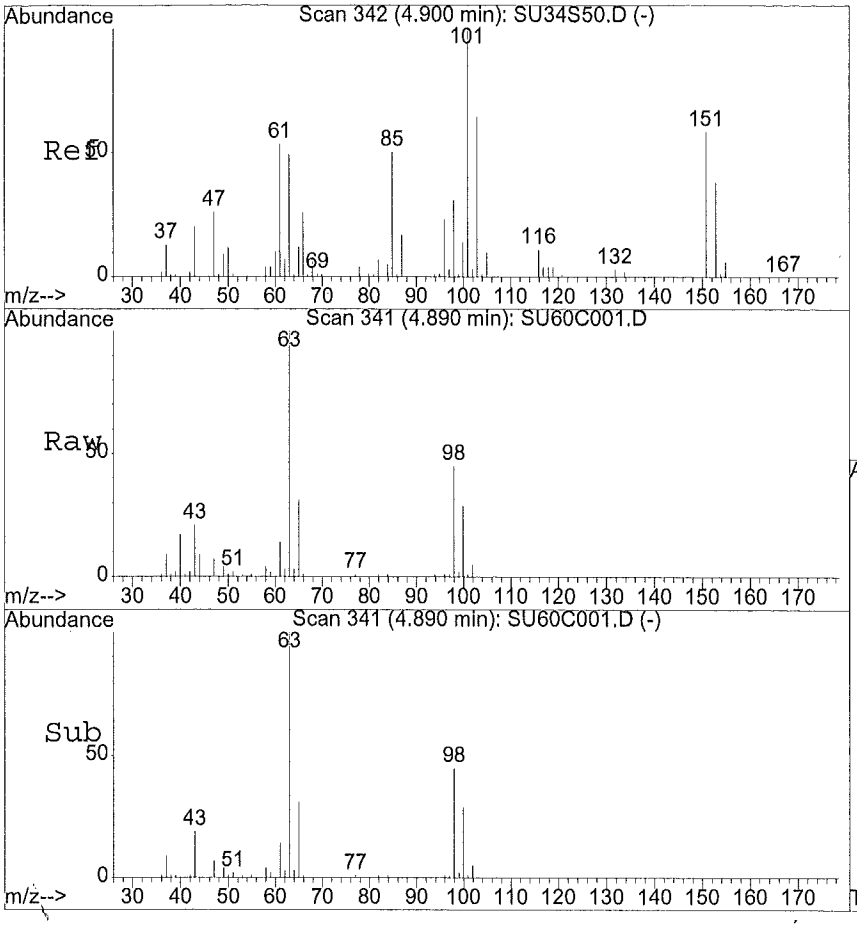
Quant Time: Jun 8 18:50 2015 Quant Results File: SCLPSS.RES

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	128921	5.03 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

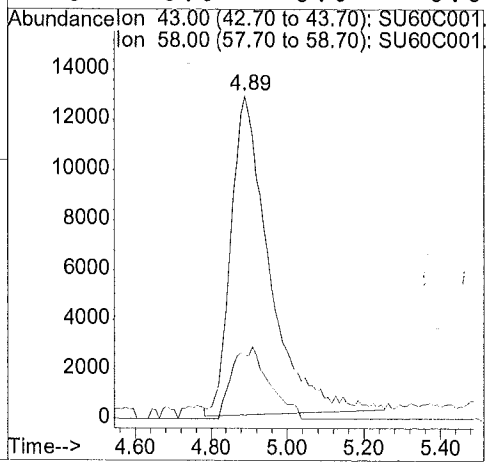
00046

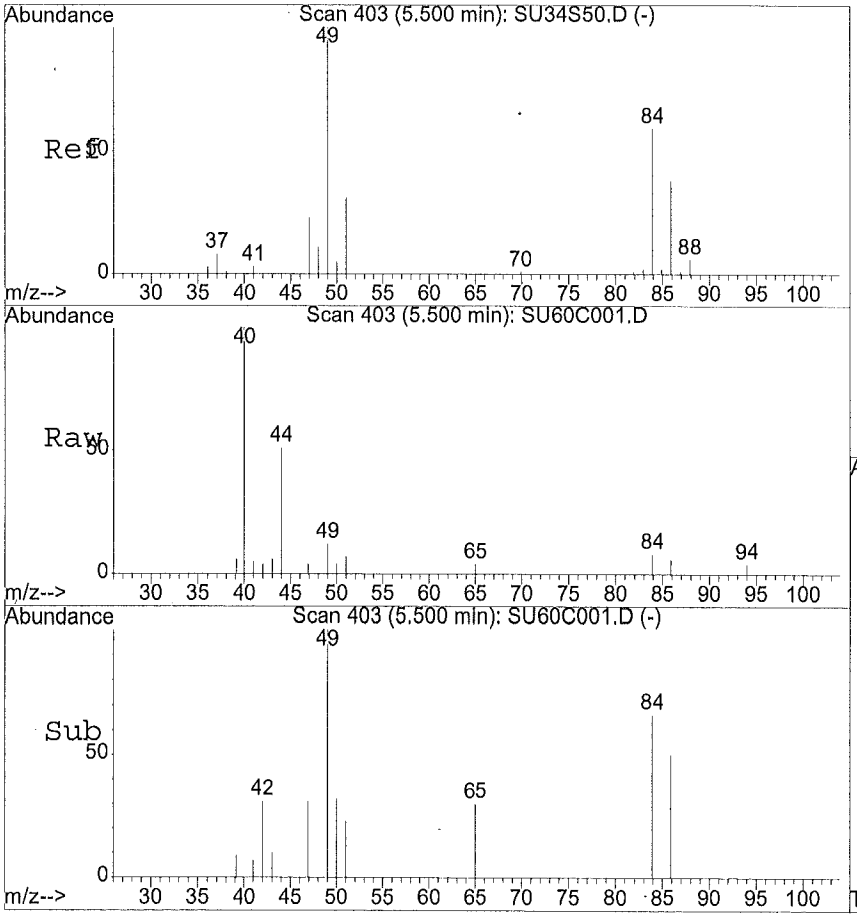


#13
Acetone
Concen: 33.58 ug/Kg
RT: 4.89 min Scan# 341
Delta R.T. 0.00 min
Lab File: SU60C001.D
Acq: 06/08/2015 18:17

Tgt Ion:43 Resp: 90037

Ion	Ratio	Lower	Upper
43	100		
58	21.7	10.9	32.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0

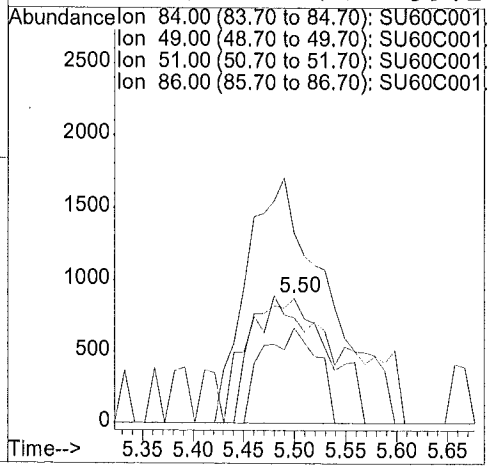


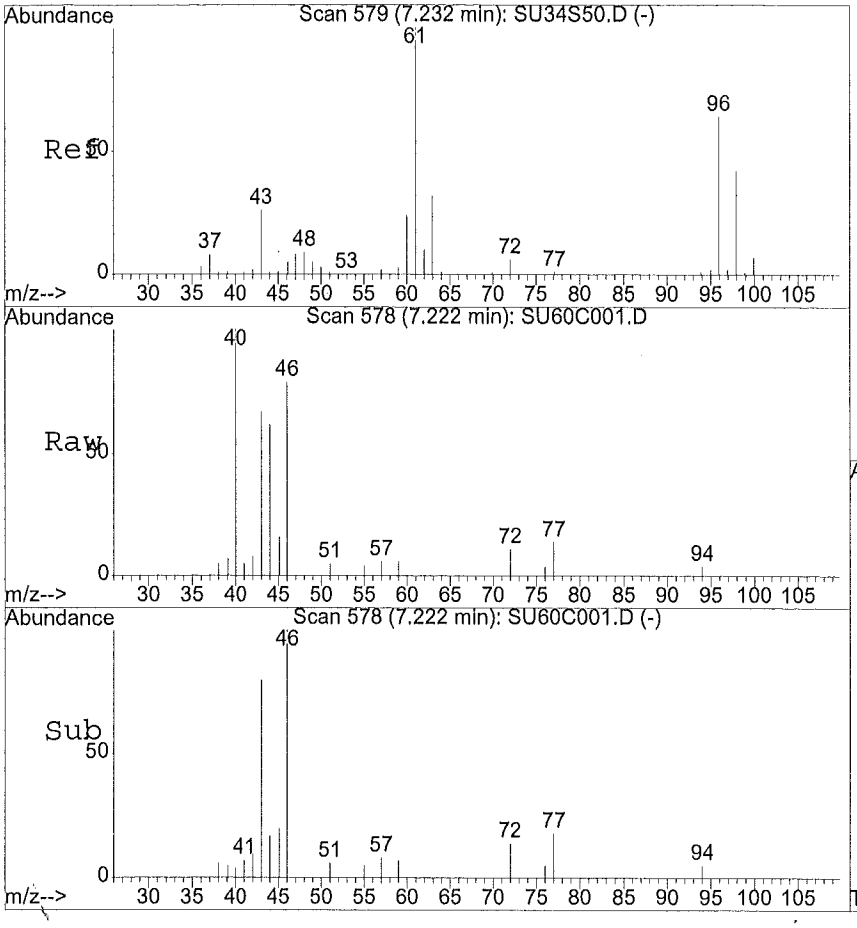


#16
Methylene chloride
Concen: 0.45 ug/Kg
RT: 5.50 min Scan# 403
Delta R.T. -0.00 min
Lab File: SU60C001.D
Acq: 06/08/2015 18:17

Tgt Ion:84 Resp: 4547

Ion	Ratio	Lower	Upper
84	100		
49	206.6	85.4	256.1
51	131.6	26.8	80.4#
86	54.7	33.1	99.2

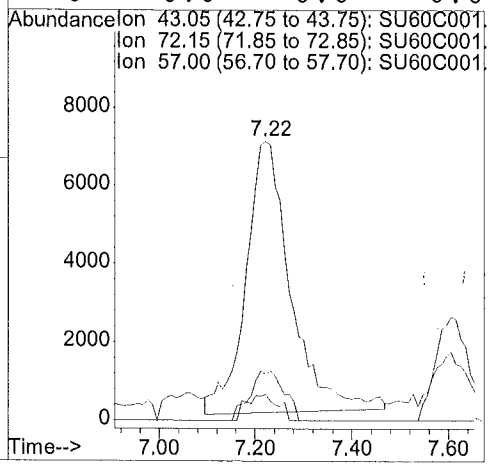


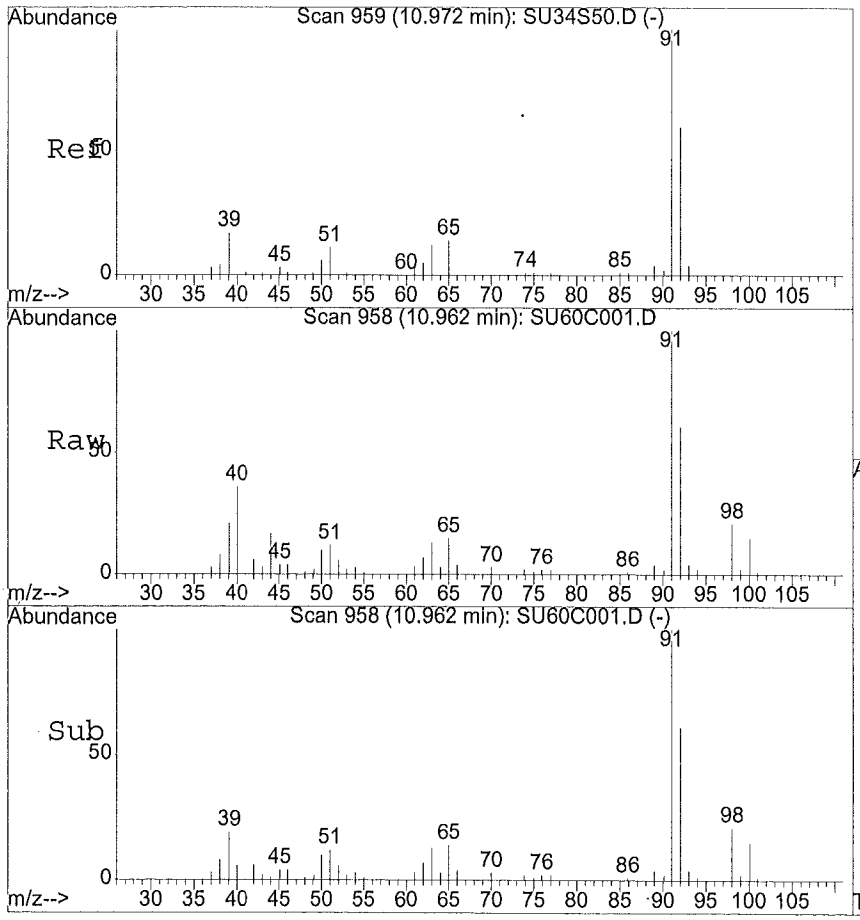


#21
2-Butanone
Concen: 14.30 ug/Kg
RT: 7.22 min Scan# 578
Delta R.T. -0.01 min
Lab File: SU60C001.D
Acq: 06/08/2015 18:17

Tgt Ion:43.05 Resp: 44544

Ion	Ratio	Lower	Upper
43	100		
72	13.5	15.9	23.9#
57	7.0	5.1	7.7
0	0.0	0.0	0.0

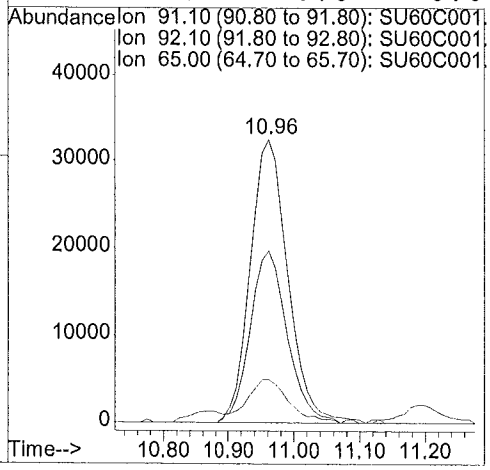




#48
Toluene
Concen: 5.03 ug/Kg
RT: 10.96 min Scan# 958
Delta R.T. -0.01 min
Lab File: SU60C001.D
Acq: 06/08/2015 18:17

Tgt Ion:91.1 Resp: 128921

Ion	Ratio	Lower	Upper
91	100		
92	59.7	48.2	72.2
65	21.2	11.7	17.5#
0	0.0	0.0	0.0



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

EPA SAMPLE NO.

F9M22

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542002

Sample wt/vol: 5.29 (g/mL) g Lab File ID: SU61C002

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 12. Date Analyzed: 06/08/2015

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	9.2	J
75-15-0	Carbon disulfide	5.4	U
79-20-9	Methyl acetate	5.4	U
75-09-2	Methylene chloride	5.4	U
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	9.4	J
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.

F9M22

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542002

Sample wt/vol: 5.29 (g/mL) g Lab File ID: SU61C002

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 12. Date Analyzed: 06/08/2015

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	1.5	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.

F9M22

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542002

Sample wt/vol: 5.29 (g/mL) g Lab File ID: SU61C002

Level: (TRACE or LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 12. Date Analyzed: 06/08/2015

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					
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10					
11					
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17					
18					
19					
20					
21					
22					
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24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

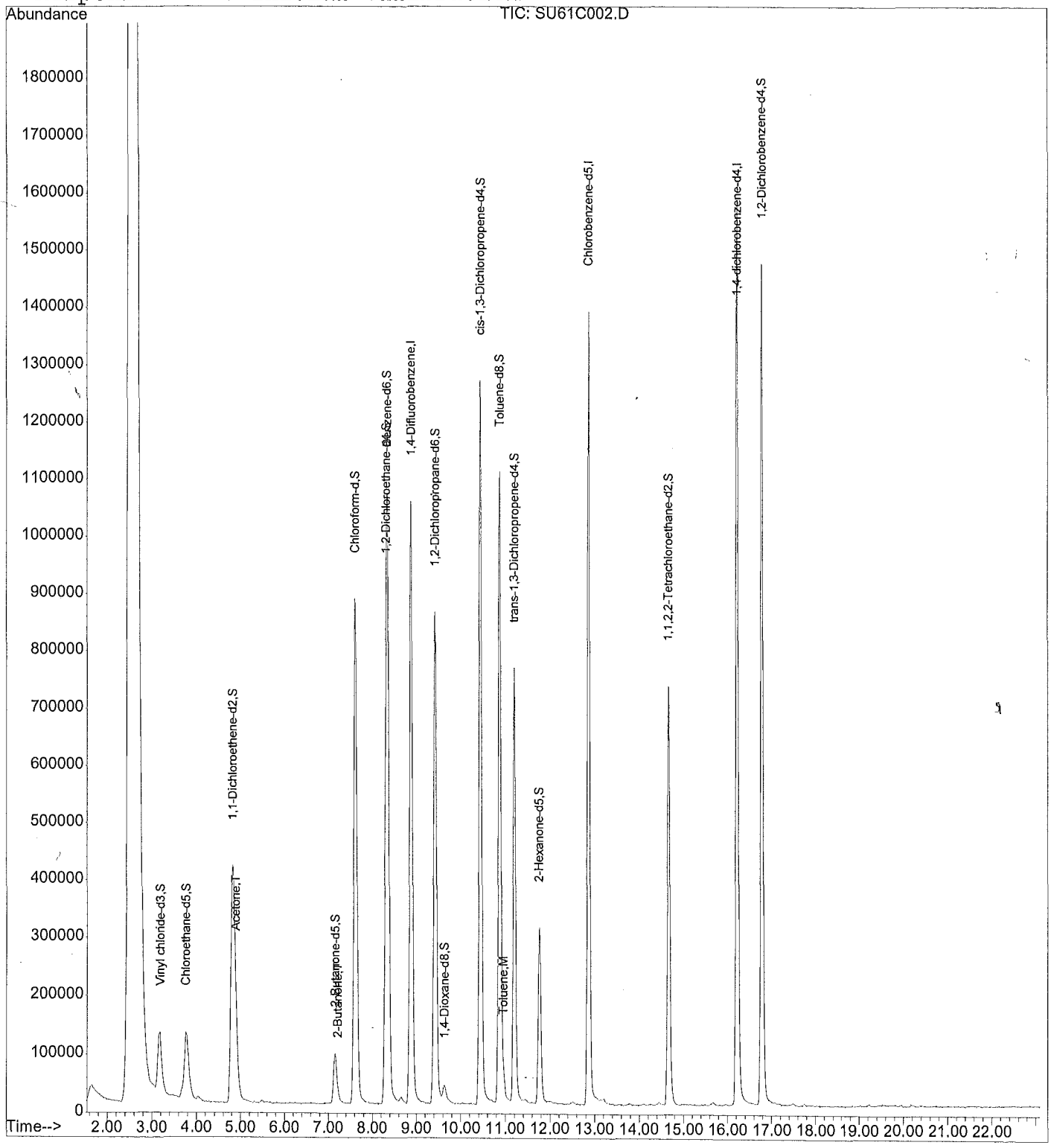
Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU61C002.D
Acq Time : 06/08/2015 18:48 Operator: CQC
Sample : 1515542002 F9M22 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 8 19:17 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

6.8'cr



00052

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU61C002.D
Acq Time : 06/08/2015 18:48 Operator: CQC
Sample : 1515542002 F9M22 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 8 19:17 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	8.87	114	1631555	50.00	ug/Kg	123.59
30) Chlorobenzene-d5	12.86	117	1295572	50.00	ug/Kg	121.03
62) 1,4-dichlorobenzene-d4	16.21	152	719737	50.00	ug/Kg	118.30
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	3.17	65	454983	43.70	ug/Kg	87.40%
8) Chloroethane-d5	3.76	69	441544	44.57	ug/Kg	89.14%
11) 1,1-Dichloroethene-d2	4.82	63	1180718	34.39	ug/Kg	68.79%
22) 2-Butanone-d5	7.15	46	297615	105.31	ug/Kg	105.31%
25) Chloroform-d	7.60	84	1566020	46.57	ug/Kg	93.14%
27) 1,2-Dichloroethane-d4	8.30	65	733188	47.70	ug/Kg	95.40%
29) 1,4-Dioxane-d8	9.63	96	45268	951.74	ug/Kg	95.17%
35) Benzene-d6	8.34	84	1554701	48.80	ug/Kg	97.60%
39) 1,2-Dichloropropane-d6	9.42	67	744550	47.45	ug/Kg	94.90%
42) cis-1,3-Dichloropropene-d4	10.44	79	1337187	50.87	ug/Kg	101.73%
44) trans-1,3-Dichloropropene-	11.19	79	764184	50.41	ug/Kg	100.83%
49) Toluene-d8	10.87	98	1395646	48.42	ug/Kg	96.84%
52) 2-Hexanone-d5	11.75	63	215467	107.25	ug/Kg	107.25%
61) 1,1,2,2-Tetrachloroethane-	14.66	84	763231	47.16	ug/Kg	94.32%
67) 1,2-Dichlorobenzene-d4	16.77	152	667781	48.40	ug/Kg	96.80%
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	26032	8.56	ug/Kg	85
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	7.22	43	30885	8.74	ug/Kg#	72
23) Bromochloromethane	0.00	128		Not Detected		
24) Chloroform	0.00	83		Not Detected		

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

00053

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU61C002.D
Acq Time : 06/08/2015 18:48 Operator: CQC
Sample : 1515542002 F9M22 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

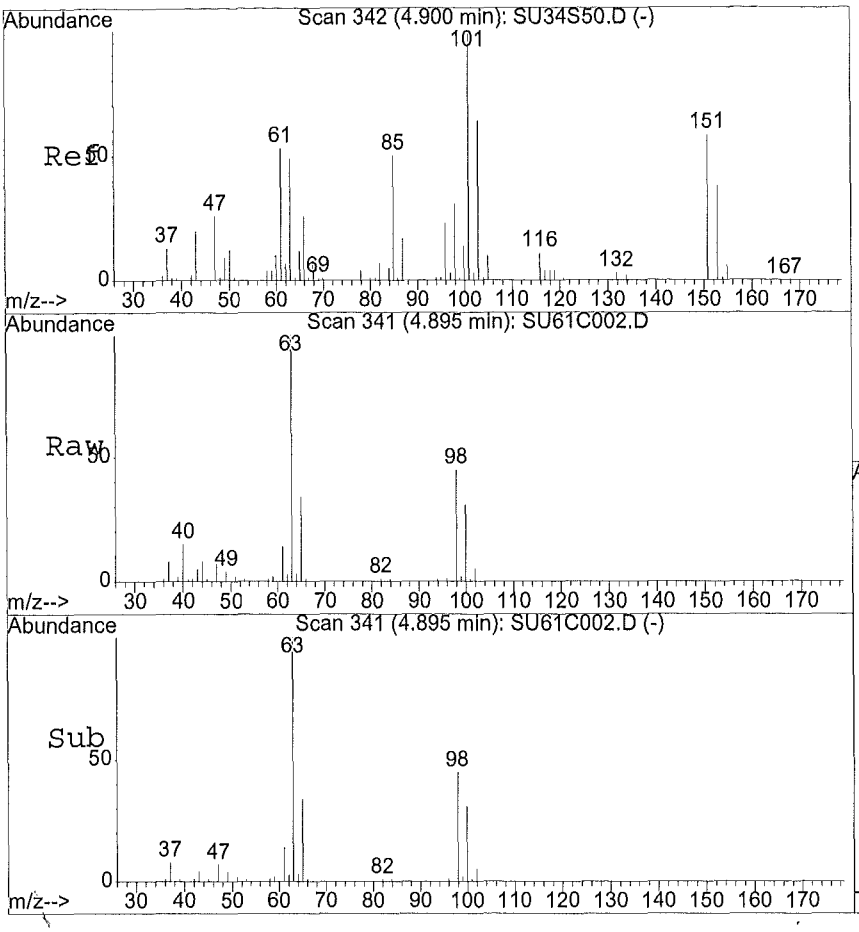
Quant Time: Jun 8 19:17 2015 Quant Results File: SCLPSS.RES

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	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	42289	1.36 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

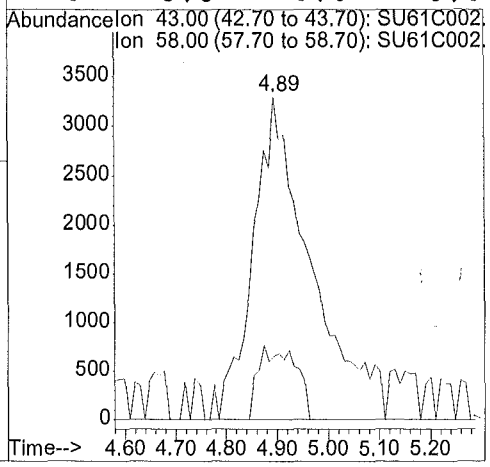
00054

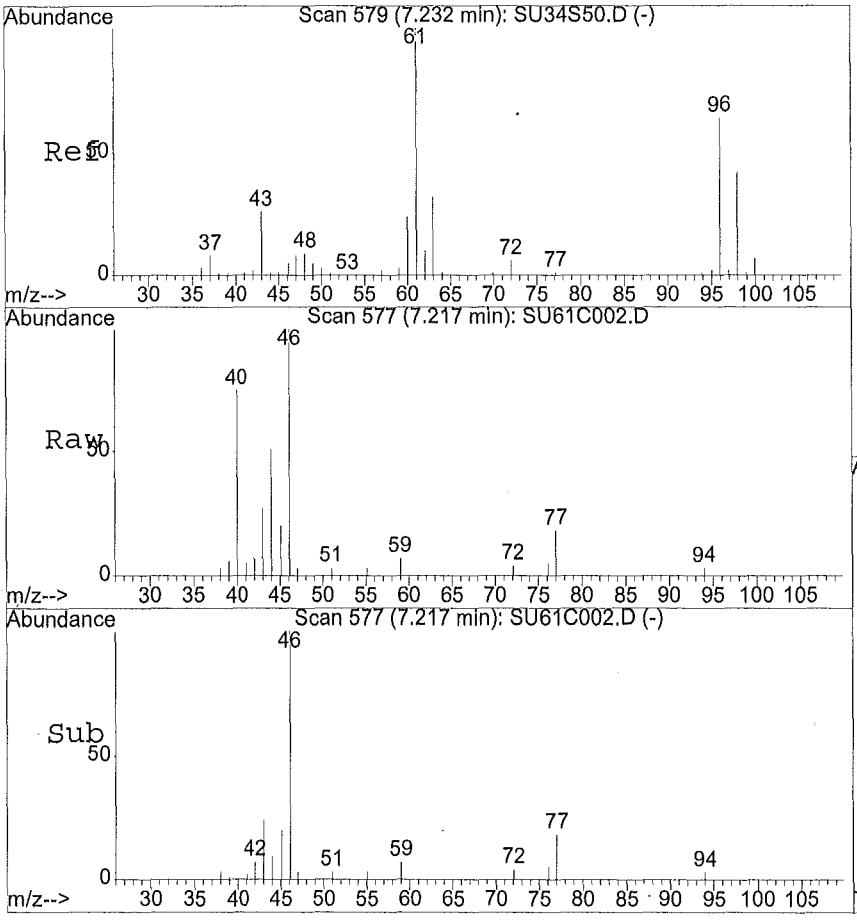


#13
Acetone
Concen: 8.56 ug/Kg
RT: 4.89 min Scan# 341
Delta R.T. 0.01 min
Lab File: SU61C002.D
Acq: 06/08/2015 18:48

Tgt Ion:43 Resp: 26032

Ion	Ratio	Lower	Upper
43	100		
58	14.7	10.9	32.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0

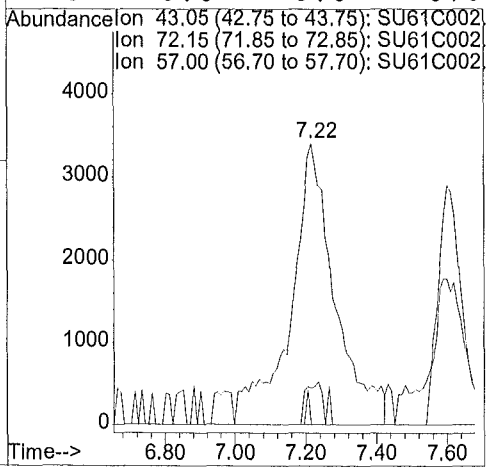


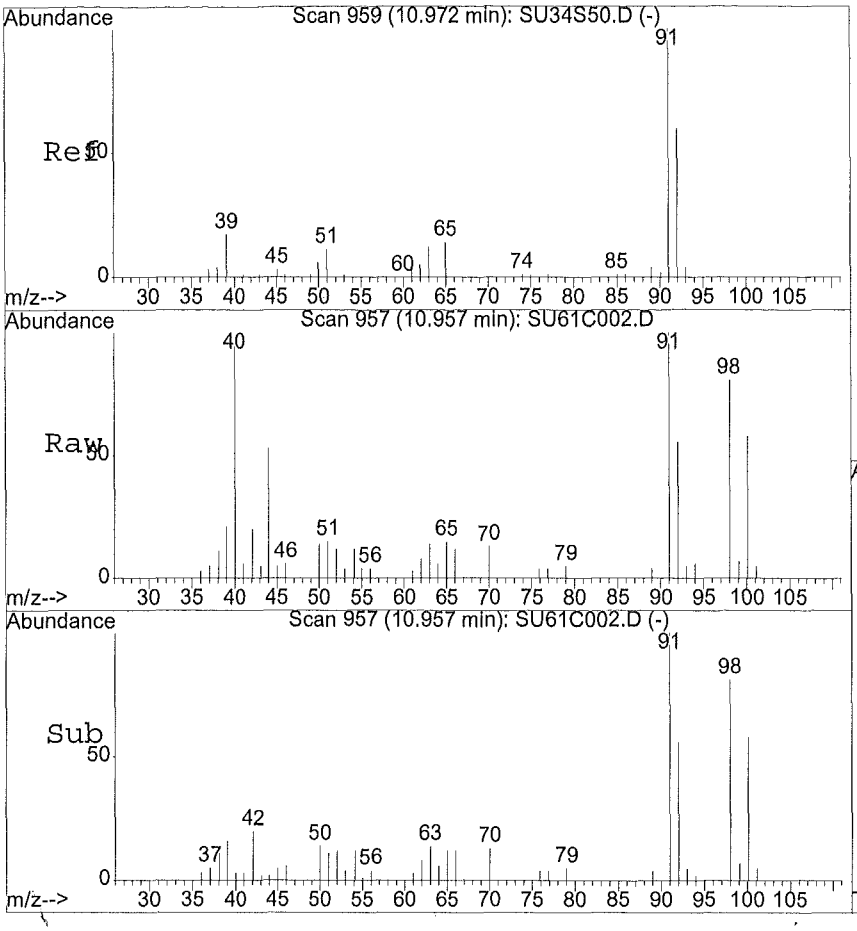


#21
2-Butanone
Concen: 8.74 ug/Kg
RT: 7.22 min Scan# 577
Delta R.T. -0.02 min
Lab File: SU61C002.D
Acq: 06/08/2015 18:48

Tgt Ion:43.05 Resp: 30885

Ion	Ratio	Lower	Upper
43	100		
72	6.0	15.9	23.9#
57	0.0	5.1	7.7#
0	0.0	0.0	0.0

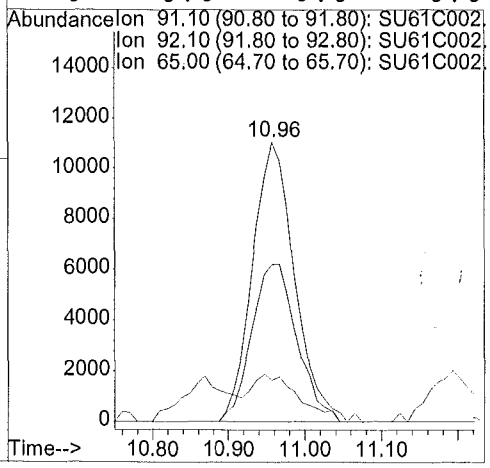




#48
Toluene
Concen: 1.36 ug/Kg
RT: 10.96 min Scan# 957
Delta R.T. -0.02 min
Lab File: SU61C002.D
Acq: 06/08/2015 18:48

Tgt Ion:91.1 Resp: 42289

Ion	Ratio	Lower	Upper
91	100		
92	60.5	48.2	72.2
65	20.4	11.7	17.5#
0	0.0	0.0	0.0



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

EPA SAMPLE NO.

F9M23

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542003

Sample wt/vol: 4.18 (g/mL) g Lab File ID: SU62C003

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 15. Date Analyzed: 06/08/2015

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	7.0	U
74-87-3	Chloromethane	7.0	U
75-01-4	Vinyl chloride	7.0	U
74-83-9	Bromomethane	7.0	U
75-00-3	Chloroethane	7.0	U
75-69-4	Trichlorofluoromethane	7.0	U
75-35-4	1,1-Dichloroethene	7.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7.0	U
67-64-1	Acetone	18.	
75-15-0	Carbon disulfide	7.0	U
79-20-9	Methyl acetate	7.0	U
75-09-2	Methylene chloride	0.44	JB
156-60-5	trans-1,2-Dichloroethene	7.0	U
1634-04-4	Methyl tert-butyl ether	7.0	U
75-34-3	1,1-Dichloroethane	7.0	U
156-59-2	cis-1,2-Dichloroethene	7.0	U
78-93-3	2-Butanone	14.	J
74-97-5	Bromochloromethane	7.0	U
67-66-3	Chloroform	7.0	U
71-55-6	1,1,1-Trichloroethane	7.0	U
110-82-7	Cyclohexane	7.0	U
56-23-5	Carbon tetrachloride	7.0	U
71-43-2	Benzene	7.0	U
107-06-2	1,2-Dichloroethane	7.0	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.

F9M23

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542003

Sample wt/vol: 4.18 (g/mL) g Lab File ID: SU62C003

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 15. Date Analyzed: 06/08/2015

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	7.0	U
108-87-2	Methylcyclohexane	7.0	U
78-87-5	1,2-Dichloropropane	7.0	U
75-27-4	Bromodichloromethane	7.0	U
10061-01-5	cis-1,3-Dichloropropene	7.0	U
108-10-1	4-Methyl-2-Pentanone	14.	U
108-88-3	Toluene	2.4	J
10061-02-6	trans-1,3-Dichloropropene	7.0	U
79-00-5	1,1,2-Trichloroethane	7.0	U
127-18-4	Tetrachloroethene	7.0	U
591-78-6	2-Hexanone	14.	U
124-48-1	Dibromochloromethane	7.0	U
106-93-4	1,2-Dibromoethane	7.0	U
108-90-7	Chlorobenzene	7.0	U
100-41-4	Ethylbenzene	7.0	U
95-47-6	o-Xylene	7.0	U
179601-23-1	m,p-Xylene	7.0	U
100-42-5	Styrene	7.0	U
75-25-2	Bromoform	7.0	U
98-82-8	Isopropylbenzene	7.0	U
79-34-5	1,1,2,2-Tetrachloroethane	7.0	U
541-73-1	1,3-Dichlorobenzene	7.0	U
106-46-7	1,4-Dichlorobenzene	7.0	U
95-50-1	1,2-Dichlorobenzene	7.0	U
96-12-8	1,2-Dibromo-3-chloropropane	7.0	U
120-82-1	1,2,4-Trichlorobenzene	7.0	U
87-61-6	1,2,3-Trichlorobenzene	7.0	U

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

EPA SAMPLE NO.

F9M23

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542003

Sample wt/vol: 4.18 (g/mL) g Lab File ID: SU62C003

Level: (TRACE or LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 15. Date Analyzed: 06/08/2015

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.

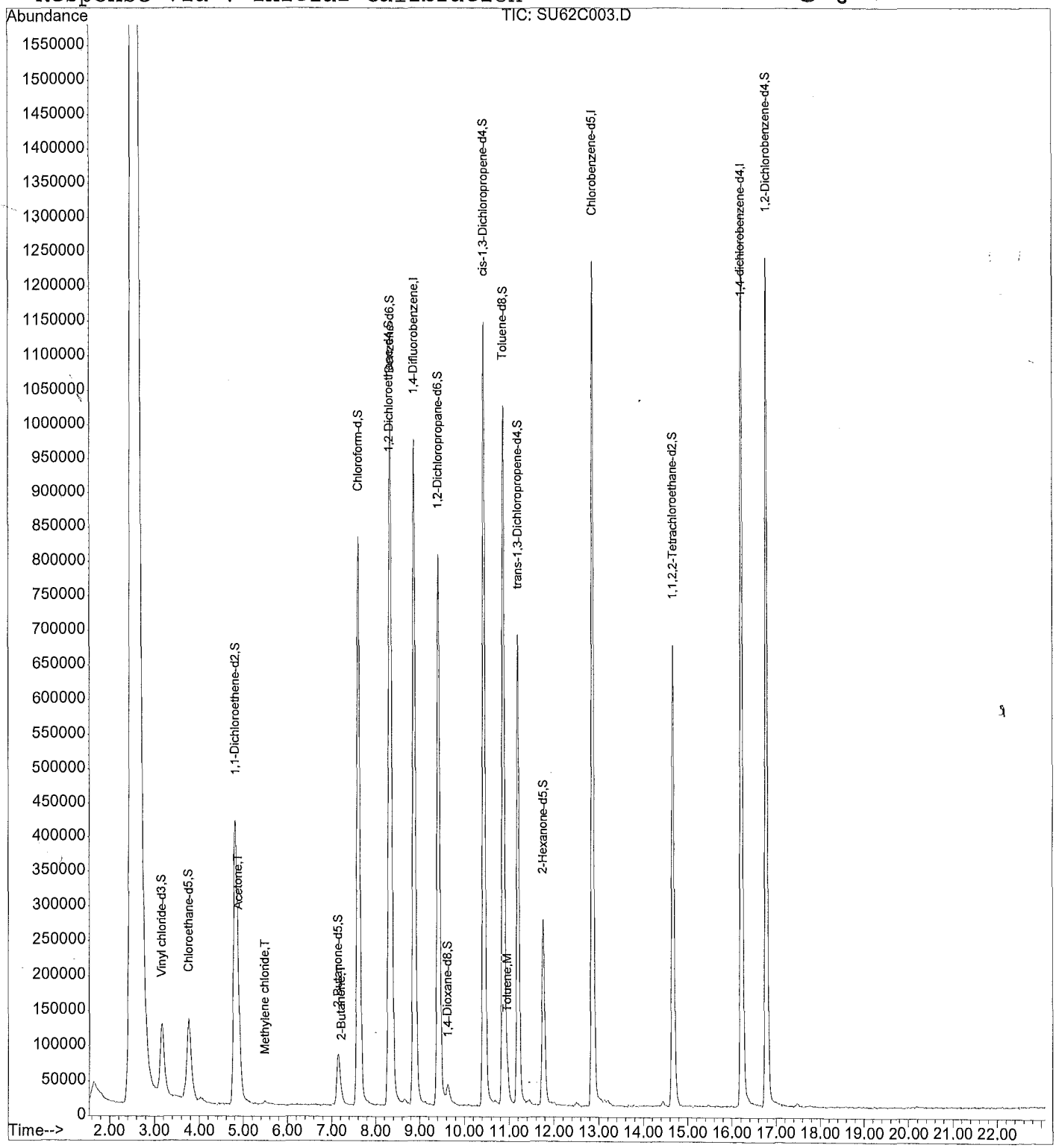
Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU62C003.D
Acq Time : 06/08/2015 19:19 Operator: CQC
Sample : 1515542003 F9M23 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 8 19:47 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

6.8.15



Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU62C003.D
Acq Time : 06/08/2015 19:19 Operator: CQC
Sample : 1515542003 F9M23 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 8 19:47 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	1507746	50.00 ug/Kg	114.21
30) Chlorobenzene-d5	12.86	117	1149419	50.00 ug/Kg	107.38
62) 1,4-dichlorobenzene-d4	16.22	152	610710	50.00 ug/Kg	100.38
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.17	65	436899	45.41 ug/Kg	90.82%
8) Chloroethane-d5	3.76	69	416898	45.54 ug/Kg	91.08%
11) 1,1-Dichloroethene-d2	4.81	63	1126306	35.50 ug/Kg	71.01%
22) 2-Butanone-d5	7.14	46	254159	97.32 ug/Kg	97.32%
25) Chloroform-d	7.61	84	1455536	46.84 ug/Kg	93.68%
27) 1,2-Dichloroethane-d4	8.31	65	680333	47.90 ug/Kg	95.79%
29) 1,4-Dioxane-d8	9.63	96	41803	951.06 ug/Kg	95.11%
35) Benzene-d6	8.35	84	1447133	51.20 ug/Kg	102.39%
39) 1,2-Dichloropropane-d6	9.42	67	686382	49.30 ug/Kg	98.61%
42) cis-1,3-Dichloropropene-d4	10.44	79	1225969	52.56 ug/Kg	105.13%
44) trans-1,3-Dichloropropene-	11.20	79	697034	51.83 ug/Kg	103.66%
49) Toluene-d8	10.87	98	1294614	50.63 ug/Kg	101.25%
52) 2-Hexanone-d5	11.76	63	184180	103.33 ug/Kg	103.33%
61) 1,1,2,2-Tetrachloroethane-	14.66	84	691644	48.17 ug/Kg	96.34%
67) 1,2-Dichlorobenzene-d4	16.78	152	562599	48.06 ug/Kg	96.11%
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	4.89	43	37071	13.19 ug/Kg	92
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.47	84	3283	0.31 ug/Kg#	51
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	7.22	43	32233	9.87 ug/Kg#	78
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

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

00061

Quantitation Report

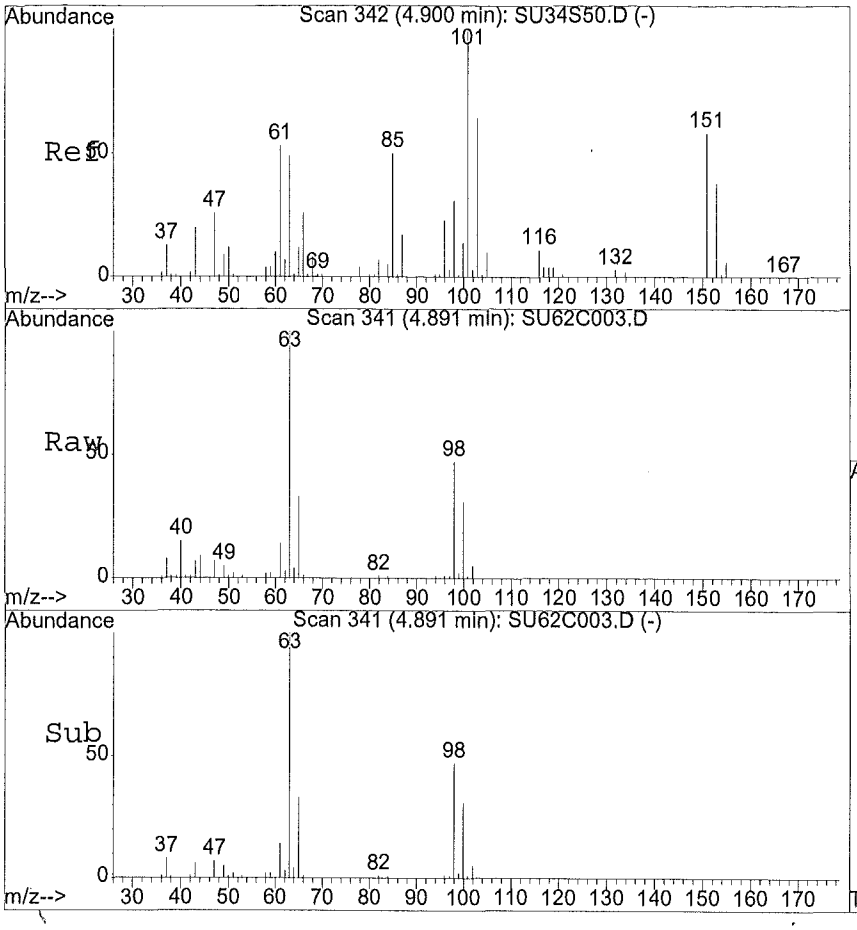
Data File : D:\HPCHEM\1\DATA\08JUN15S\SU62C003.D
Acq Time : 06/08/2015 19:19 Operator: CQC
Sample : 1515542003 F9M23 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 8 19:47 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	48093	1.74 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	

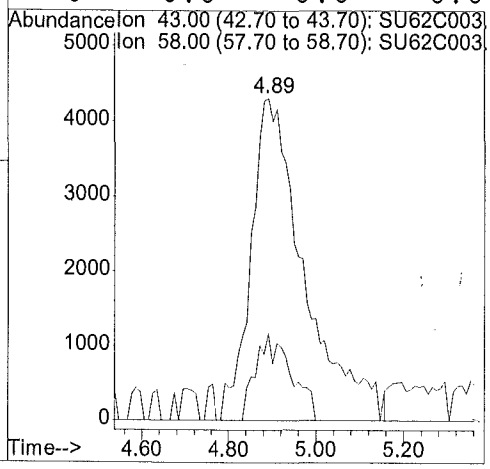
(#) = qualifier out of range (m) = manual integration

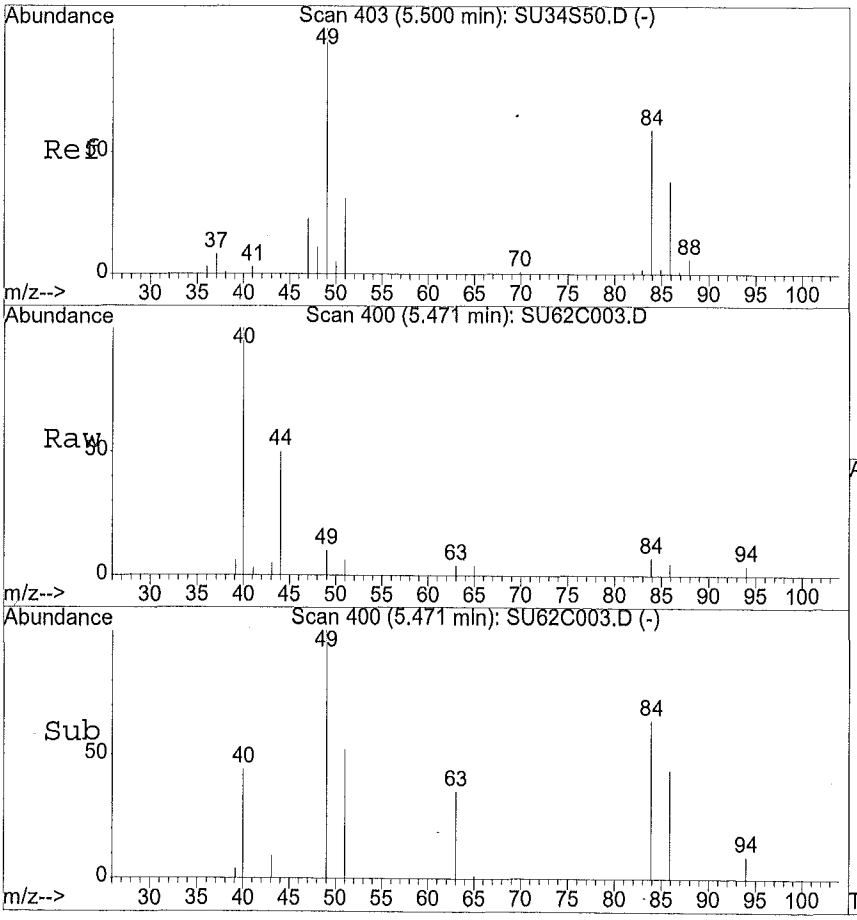


#13
Acetone
Concen: 13.19 ug/Kg
RT: 4.89 min Scan# 341
Delta R.T. 0.00 min
Lab File: SU62C003.D
Acq: 06/08/2015 19:19

Tgt Ion:43 Resp: 37071

Ion	Ratio	Lower	Upper
43	100		
58	17.8	10.9	32.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0

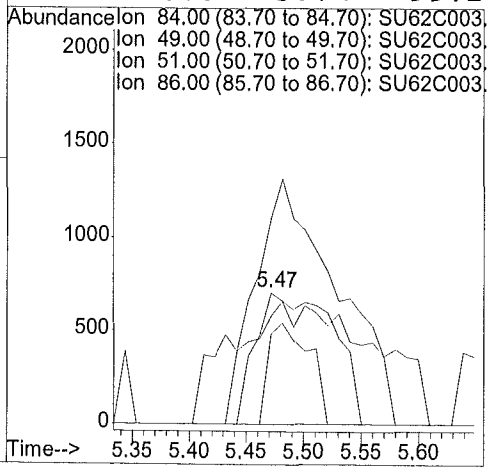


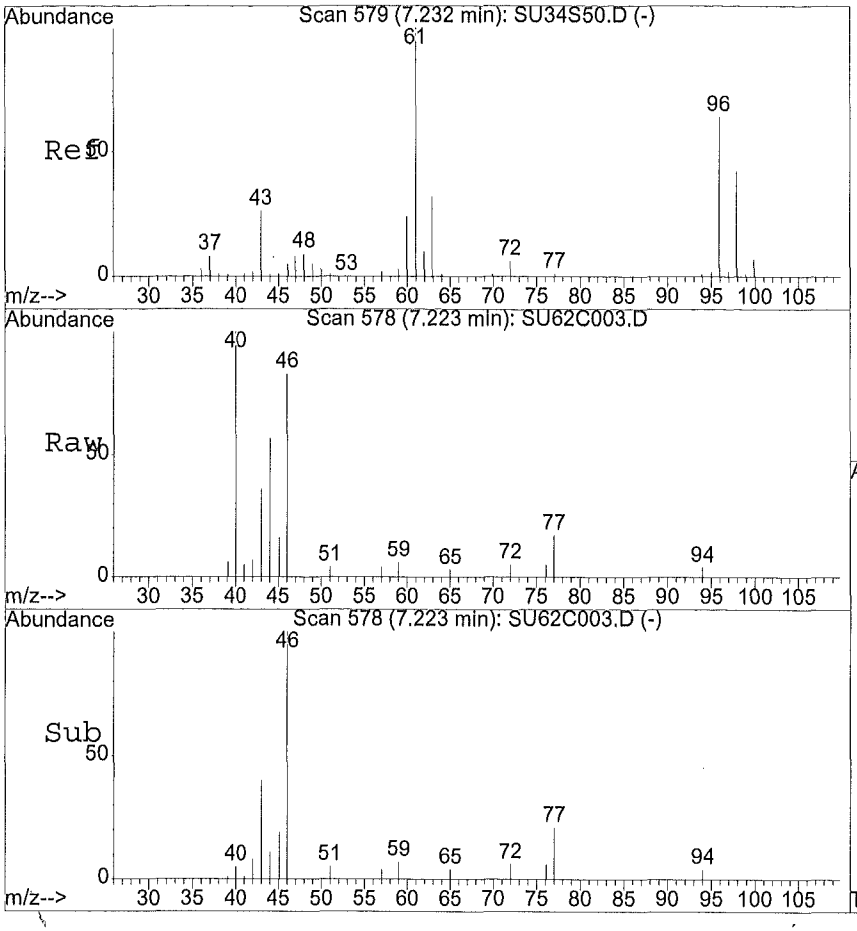


#16
Methylene chloride
Concen: 0.31 ug/Kg
RT: 5.47 min Scan# 400
Delta R.T. -0.03 min
Lab File: SU62C003.D
Acq: 06/08/2015 19:19

Tgt Ion:84 Resp: 3283

Ion	Ratio	Lower	Upper
84	100		
49	198.0	85.4	256.1
51	168.8	26.8	80.4#
86	40.8	33.1	99.2

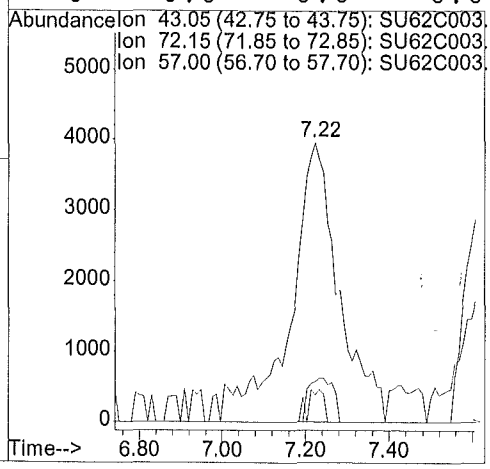


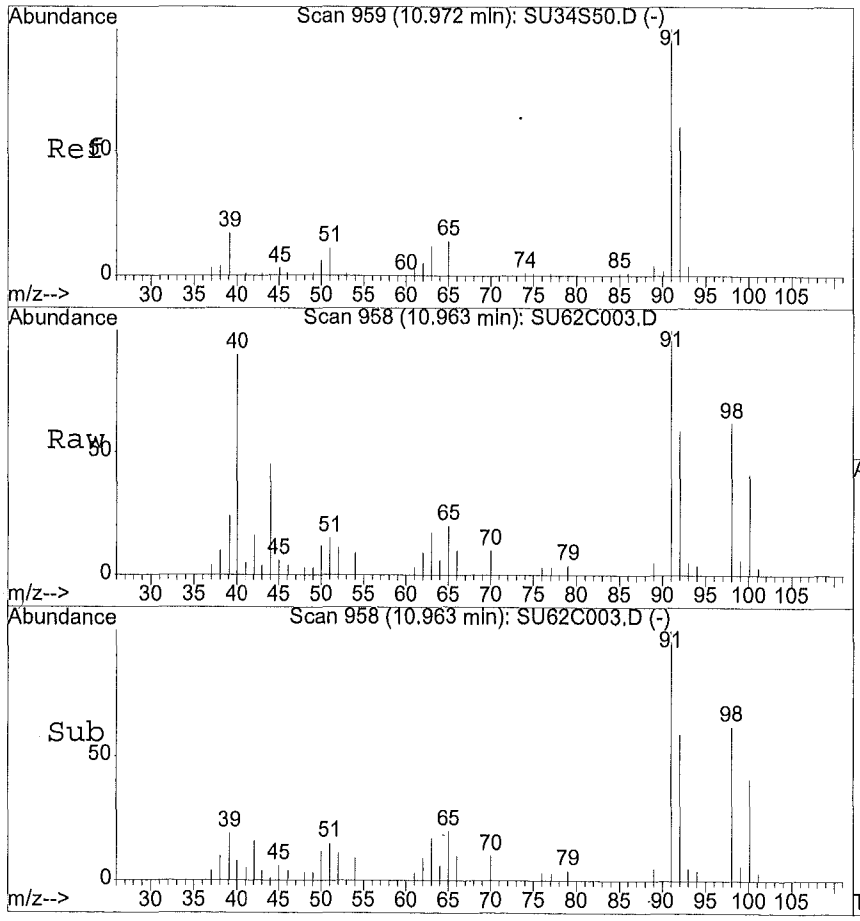


#21
2-Butanone
Concen: 9.87 ug/Kg
RT: 7.22 min Scan# 578
Delta R.T. -0.01 min
Lab File: SU62C003.D
Acq: 06/08/2015 19:19

Tgt Ion:43.05 Resp: 32233

Ion	Ratio	Lower	Upper
43	100		
72	8.0	15.9	23.9#
57	3.8	5.1	7.7#
0	0.0	0.0	0.0

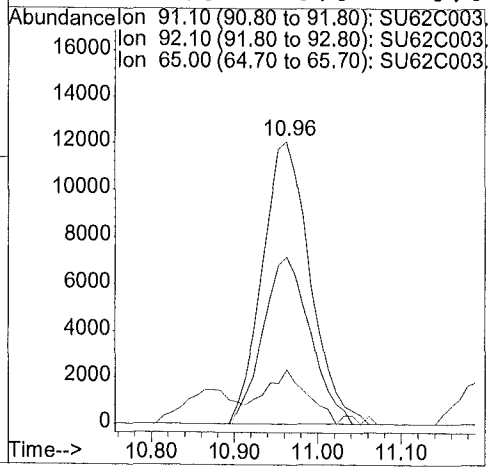




#48
Toluene
Concen: 1.74 ug/Kg
RT: 10.96 min Scan# 958
Delta R.T. -0.01 min
Lab File: SU62C003.D
Acq: 06/08/2015 19:19

Tgt Ion:91.1 Resp: 48093

Ion	Ratio	Lower	Upper
91	100		
92	58.7	48.2	72.2
65	19.6	11.7	17.5#
0	0.0	0.0	0.0



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

EPA SAMPLE NO.

F9M24

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542004

Sample wt/vol: 3.62 (g/mL) g Lab File ID: SU63C004

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 14. Date Analyzed: 06/08/2015

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	14.	J
75-15-0	Carbon disulfide	8.1	U
79-20-9	Methyl acetate	8.1	U
75-09-2	Methylene chloride	0.51	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.

F9M24

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542004

Sample wt/vol: 3.62 (g/mL) g Lab File ID: SU63C004

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 14. Date Analyzed: 06/08/2015

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	0.79	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.

F9M24

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542004

Sample wt/vol: 3.62 (g/mL) g Lab File ID: SU63C004

Level: (TRACE or LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 14. Date Analyzed: 06/08/2015

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		

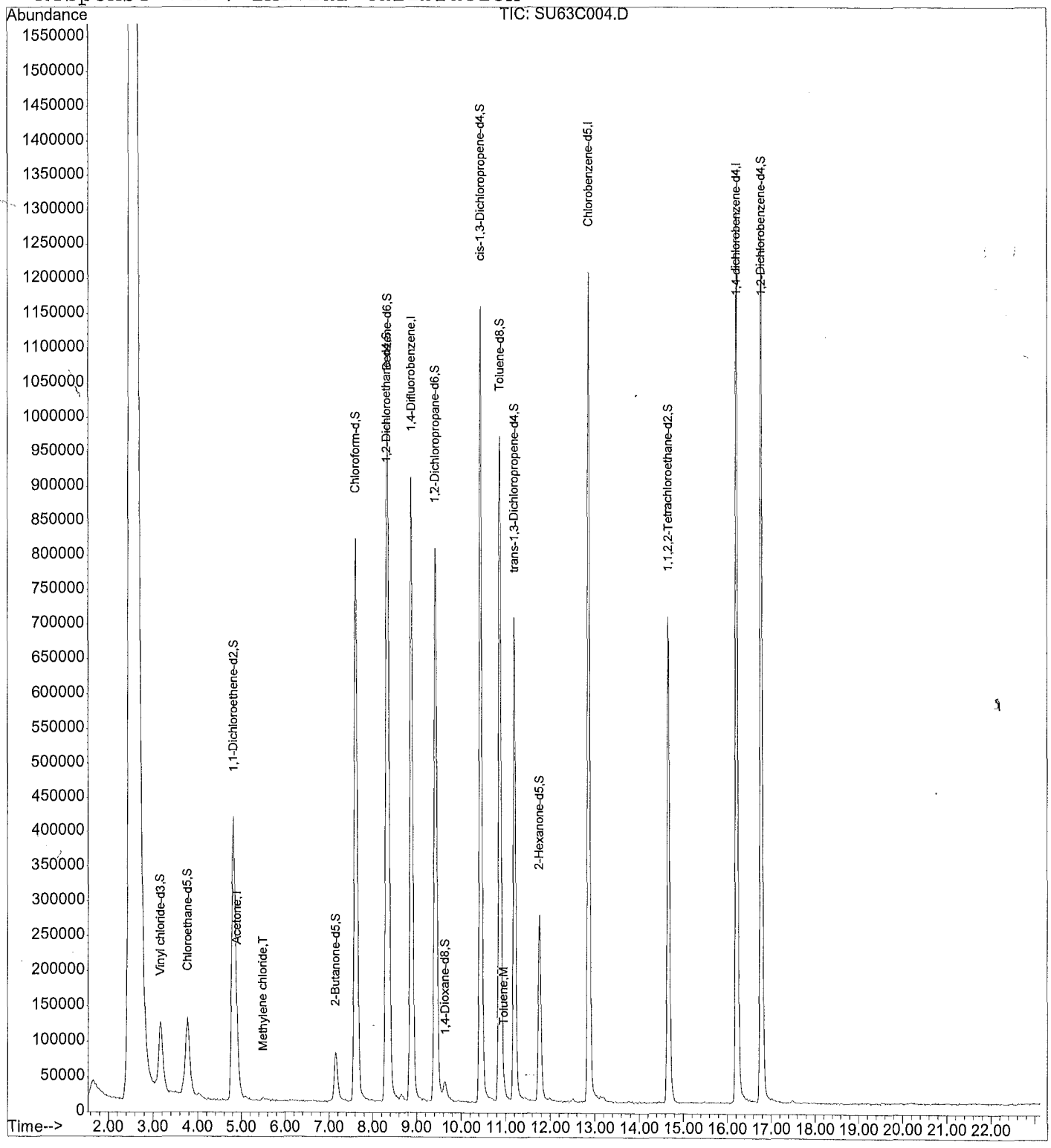
[1] EPA-designated Registry Number.

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU63C004.D
Acq Time : 06/08/2015 19:50 Operator: CQC
Sample : 1515542004 F9M24 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 8 20:48 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



Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU63C004.D
Acq Time : 06/08/2015 19:50 Operator: CQC
Sample : 1515542004 F9M24 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 8 20:48 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	1391955	50.00 ug/Kg	105.44
30) Chlorobenzene-d5	12.86	117	1120232	50.00 ug/Kg	104.65
62) 1,4-dichlorobenzene-d4	16.22	152	594083	50.00 ug/Kg	97.65
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.17	65	413841	46.59 ug/Kg	93.18%
8) Chloroethane-d5	3.76	69	411172	48.65 ug/Kg	97.30%
11) 1,1-Dichloroethene-d2	4.81	63	1022287	34.91 ug/Kg	69.81%
22) 2-Butanone-d5	7.14	46	241241	100.06 ug/Kg	100.06%
25) Chloroform-d	7.61	84	1439630	50.18 ug/Kg	100.36%
27) 1,2-Dichloroethane-d4	8.30	65	694400	52.95 ug/Kg	105.91%
29) 1,4-Dioxane-d8	9.63	96	41856	1031.48 ug/Kg	103.15%
35) Benzene-d6	8.34	84	1404272	50.98 ug/Kg	101.95%
39) 1,2-Dichloropropane-d6	9.42	67	691866	50.99 ug/Kg	101.98%
42) cis-1,3-Dichloropropene-d4	10.44	79	1219700	53.66 ug/Kg	107.32%
44) trans-1,3-Dichloropropene-	11.20	79	708938	54.09 ug/Kg	108.18%
49) Toluene-d8	10.87	98	1212221	48.64 ug/Kg	97.28%
52) 2-Hexanone-d5	11.76	63	187535	107.95 ug/Kg	107.95%
61) 1,1,2,2-Tetrachloroethane-	14.66	84	728947	52.09 ug/Kg	104.18%
67) 1,2-Dichlorobenzene-d4	16.78	152	579694	50.90 ug/Kg	101.80%
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	21845	8.42 ug/Kg#	71
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.48	84	3064	0.31 ug/Kg#	61
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\08JUN15S\SU63C004.D
Acq Time : 06/08/2015 19:50 Operator: CQC
Sample : 1515542004 F9M24 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

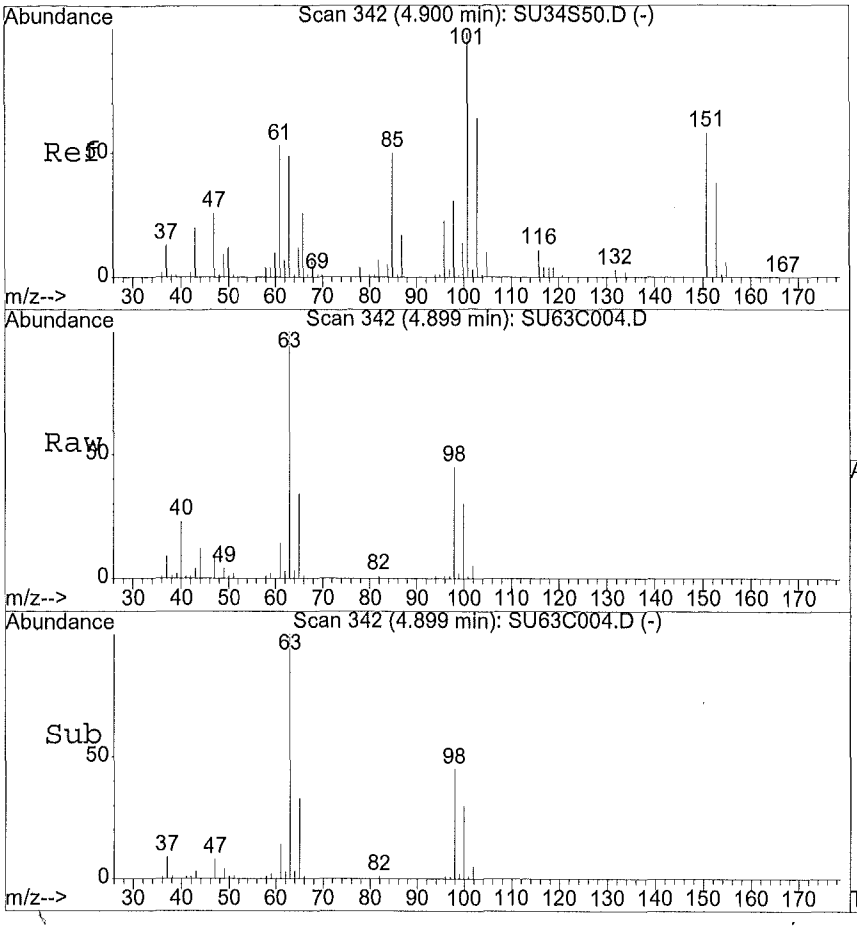
Quant Time: Jun 8 20:48 2015 Quant Results File: SCLPSS.RES

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	13194	0.49 ug/Kg#	83
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

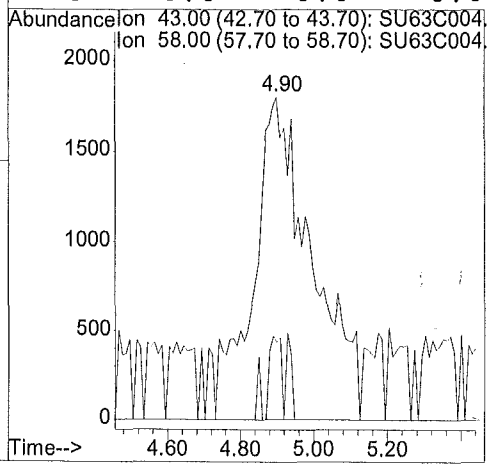
00070

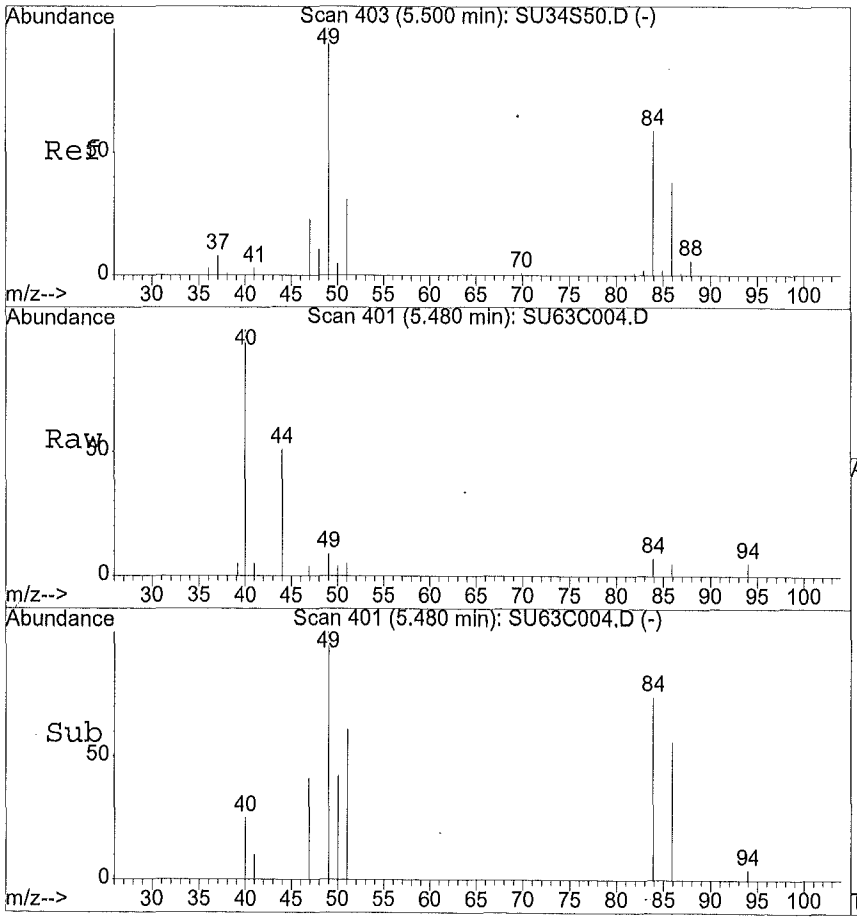


#13
Acetone
Concen: 8.42 ug/Kg
RT: 4.90 min Scan# 342
Delta R.T. 0.01 min
Lab File: SU63C004.D
Acq: 06/08/2015 19:50

Tgt Ion:43 Resp: 21845

Ion	Ratio	Lower	Upper
43	100		
58	8.0	10.9	32.6#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

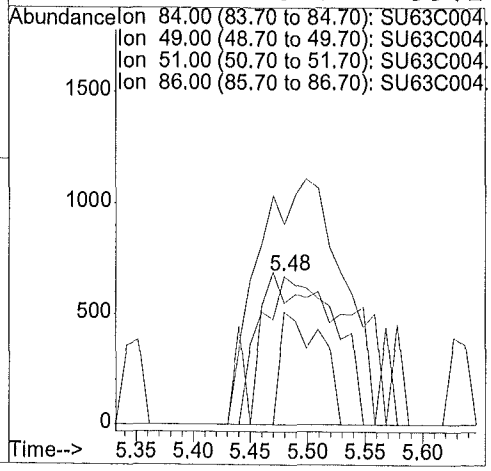


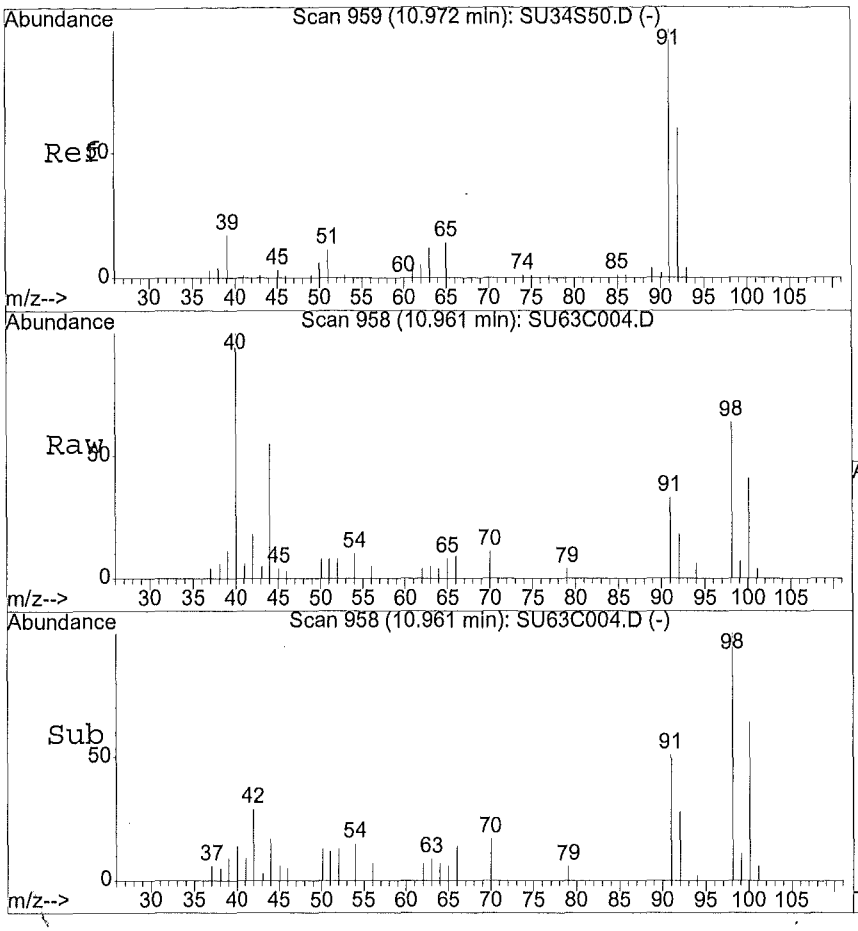


#16
Methylene chloride
Concen: 0.31 ug/Kg
RT: 5.48 min Scan# 401
Delta R.T. -0.02 min
Lab File: SU63C004.D
Acq: 06/08/2015 19:50

Tgt Ion:84 Resp: 3064

Ion	Ratio	Lower	Upper
84	100		
49	202.2	85.4	256.1
51	124.1	26.8	80.4#
86	40.8	33.1	99.2

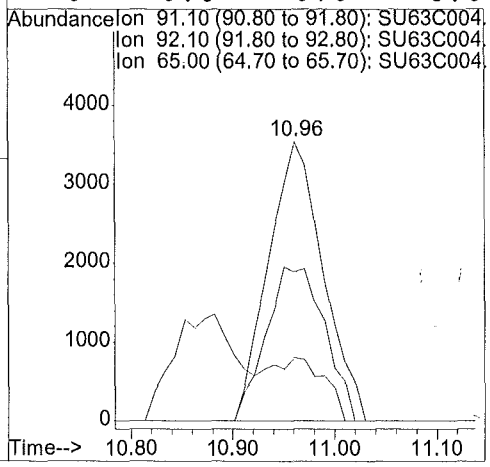




#48
Toluene
Concen: 0.49 ug/Kg
RT: 10.96 min Scan# 958
Delta R.T. -0.01 min
Lab File: SU63C004.D
Acq: 06/08/2015 19:50

Tgt Ion:91.1 Resp: 13194

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



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

EPA SAMPLE NO.

F9M25

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542005

Sample wt/vol: 6.19 (g/mL) g Lab File ID: SU64C005

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 24. Date Analyzed: 06/08/2015

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	5.3	U
74-87-3	Chloromethane	5.3	U
75-01-4	Vinyl chloride	5.3	U
74-83-9	Bromomethane	5.3	U
75-00-3	Chloroethane	5.3	U
75-69-4	Trichlorofluoromethane	5.3	U
75-35-4	1,1-Dichloroethene	5.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.3	U
67-64-1	Acetone	7.4	J
75-15-0	Carbon disulfide	5.3	U
79-20-9	Methyl acetate	5.3	U
75-09-2	Methylene chloride	0.27	JB
156-60-5	trans-1,2-Dichloroethene	5.3	U
1634-04-4	Methyl tert-butyl ether	5.3	U
75-34-3	1,1-Dichloroethane	5.3	U
156-59-2	cis-1,2-Dichloroethene	5.3	U
78-93-3	2-Butanone	11.	U
74-97-5	Bromochloromethane	5.3	U
67-66-3	Chloroform	5.3	U
71-55-6	1,1,1-Trichloroethane	5.3	U
110-82-7	Cyclohexane	5.3	U
56-23-5	Carbon tetrachloride	5.3	U
71-43-2	Benzene	5.3	U
107-06-2	1,2-Dichloroethane	5.3	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.

F9M25

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542005

Sample wt/vol: 6.19 (g/mL) g Lab File ID: SU64C005

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 24. Date Analyzed: 06/08/2015

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	5.3	U
108-87-2	Methylcyclohexane	5.3	U
78-87-5	1,2-Dichloropropane	5.3	U
75-27-4	Bromodichloromethane	5.3	U
10061-01-5	cis-1,3-Dichloropropene	5.3	U
108-10-1	4-Methyl-2-Pentanone	11.	U
108-88-3	Toluene	1.3	J
10061-02-6	trans-1,3-Dichloropropene	5.3	U
79-00-5	1,1,2-Trichloroethane	5.3	U
127-18-4	Tetrachloroethene	5.3	U
591-78-6	2-Hexanone	11.	U
124-48-1	Dibromochloromethane	5.3	U
106-93-4	1,2-Dibromoethane	5.3	U
108-90-7	Chlorobenzene	5.3	U
100-41-4	Ethylbenzene	5.3	U
95-47-6	o-Xylene	5.3	U
179601-23-1	m,p-Xylene	0.27	J
100-42-5	Styrene	5.3	U
75-25-2	Bromoform	5.3	U
98-82-8	Isopropylbenzene	5.3	U
79-34-5	1,1,2,2-Tetrachloroethane	5.3	U
541-73-1	1,3-Dichlorobenzene	5.3	U
106-46-7	1,4-Dichlorobenzene	5.3	U
95-50-1	1,2-Dichlorobenzene	5.3	U
96-12-8	1,2-Dibromo-3-chloropropane	5.3	U
120-82-1	1,2,4-Trichlorobenzene	5.3	U
87-61-6	1,2,3-Trichlorobenzene	5.3	U

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

EPA SAMPLE NO.
F9M25

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542005
Sample wt/vol: 6.19 (g/mL) g Lab File ID: SU64C005
Level: (TRACE or LOW/MED) LOW Date Received: 06/03/2015
% Moisture: not dec. 24. Date Analyzed: 06/08/2015
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		

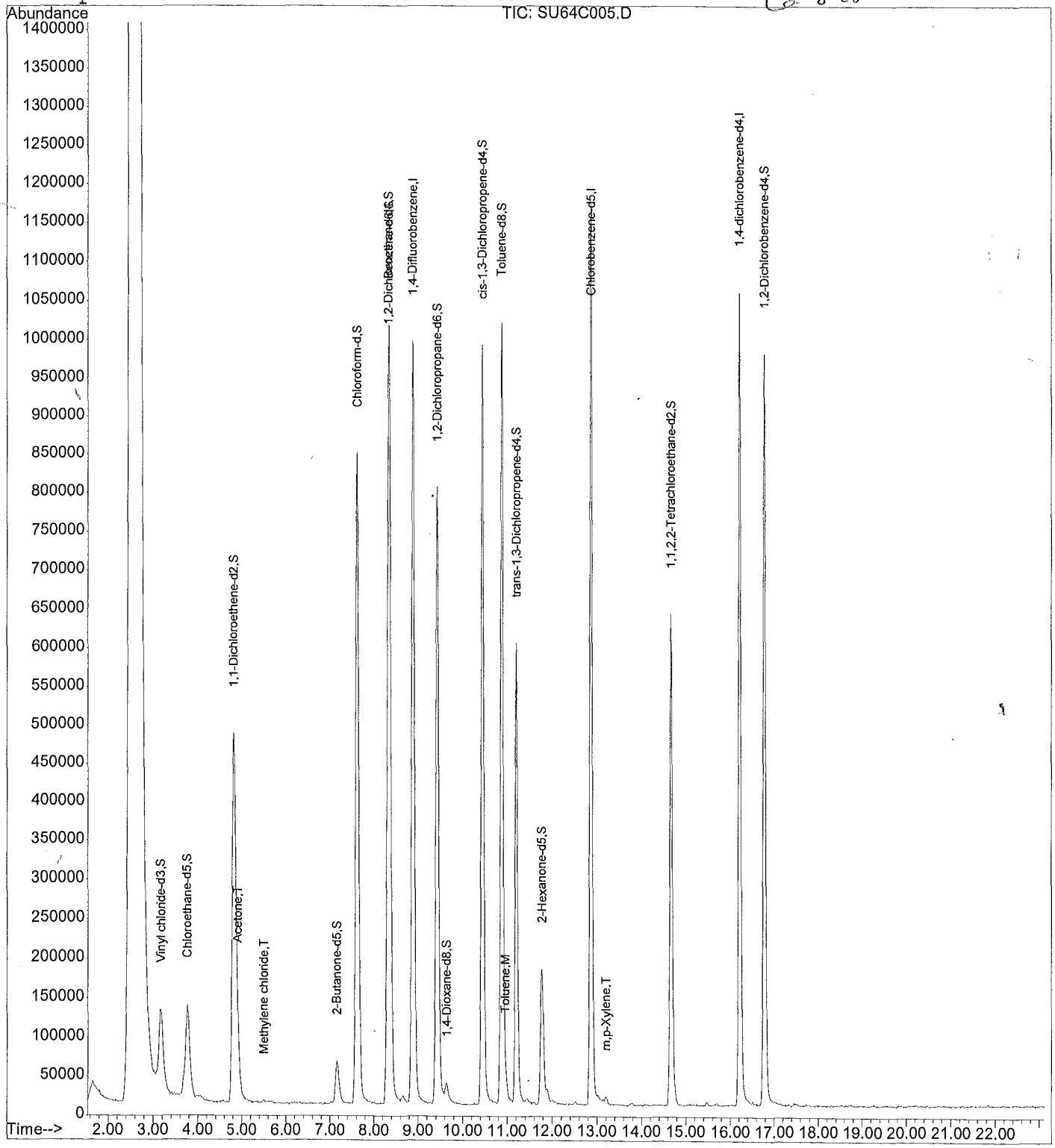
[1] EPA-designated Registry Number.

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU64C005.D
Acq Time : 06/08/2015 20:21 Operator: CQC
Sample : 1515542005 F9M25 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 8 20:49 2015 Quant Results File: SCLPSS.RES

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



Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU64C005.D
Acq Time : 06/08/2015 20:21 Operator: CQC
Sample : 1515542005 F9M25 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 8 20:49 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 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.88	114	1532045	50.00 ug/Kg	116.06
30) Chlorobenzene-d5	12.86	117	1087907	50.00 ug/Kg	101.63
62) 1,4-dichlorobenzene-d4	16.21	152	488173	50.00 ug/Kg	80.24
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.17	65	457923	46.84 ug/Kg	93.68%
8) Chloroethane-d5	3.77	69	442436	47.56 ug/Kg	95.12%
11) 1,1-Dichloroethene-d2	4.81	63	1196245	37.11 ug/Kg	74.22%
22) 2-Butanone-d5	7.15	46	163309	61.54 ug/Kg	61.54%
25) Chloroform-d	7.62	84	1498514	47.46 ug/Kg	94.92%
27) 1,2-Dichloroethane-d4	8.32	65	683116	47.33 ug/Kg	94.66%
29) 1,4-Dioxane-d8	9.63	96	34969	782.96 ug/Kg	78.30%
35) Benzene-d6	8.34	84	1468007	54.87 ug/Kg	109.74%
39) 1,2-Dichloropropane-d6	9.43	67	688924	52.28 ug/Kg	104.57%
42) cis-1,3-Dichloropropene-d4	10.44	79	1036817	46.97 ug/Kg	93.94%
44) trans-1,3-Dichloropropene-	11.20	79	602993	47.37 ug/Kg	94.75%
49) Toluene-d8	10.87	98	1265427	52.28 ug/Kg	104.57%
52) 2-Hexanone-d5	11.76	63	111776	66.25 ug/Kg	66.25%
61) 1,1,2,2-Tetrachloroethane-	14.66	84	643033	47.32 ug/Kg	94.64%
67) 1,2-Dichlorobenzene-d4	16.78	152	450021	48.09 ug/Kg	96.18%
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	19926	6.98 ug/Kg#	69
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.51	84	2696	0.25 ug/Kg#	50
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

60077

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU64C005.D
Acq Time : 06/08/2015 20:21 Operator: CQC
Sample : 1515542005 F9M25 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

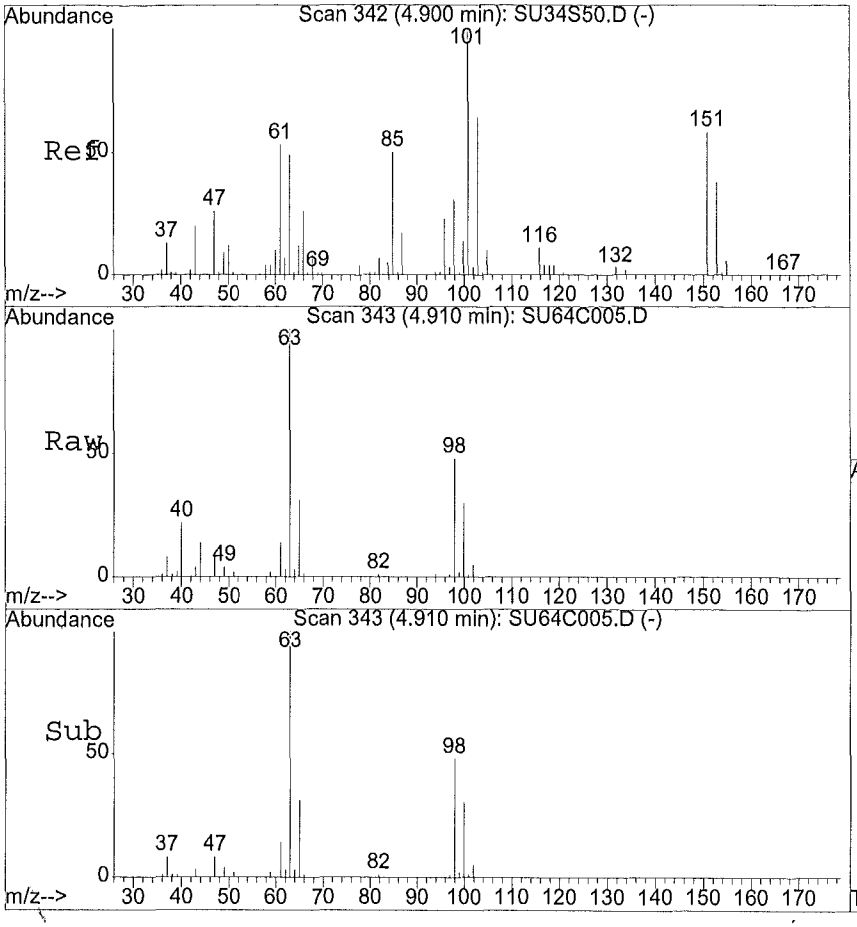
Quant Time: Jun 8 20:49 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 22:53:16 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	32152	1.23 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	2953	0.26 ug/Kg#	68
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

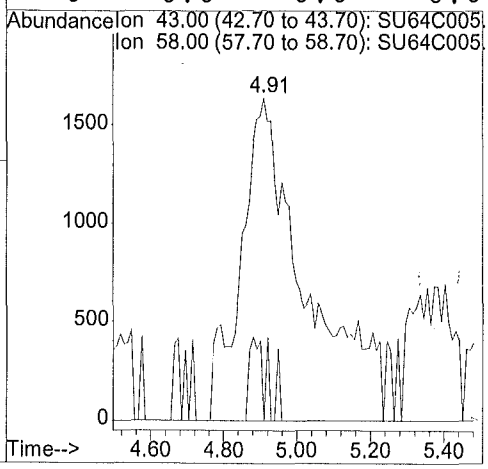
00078

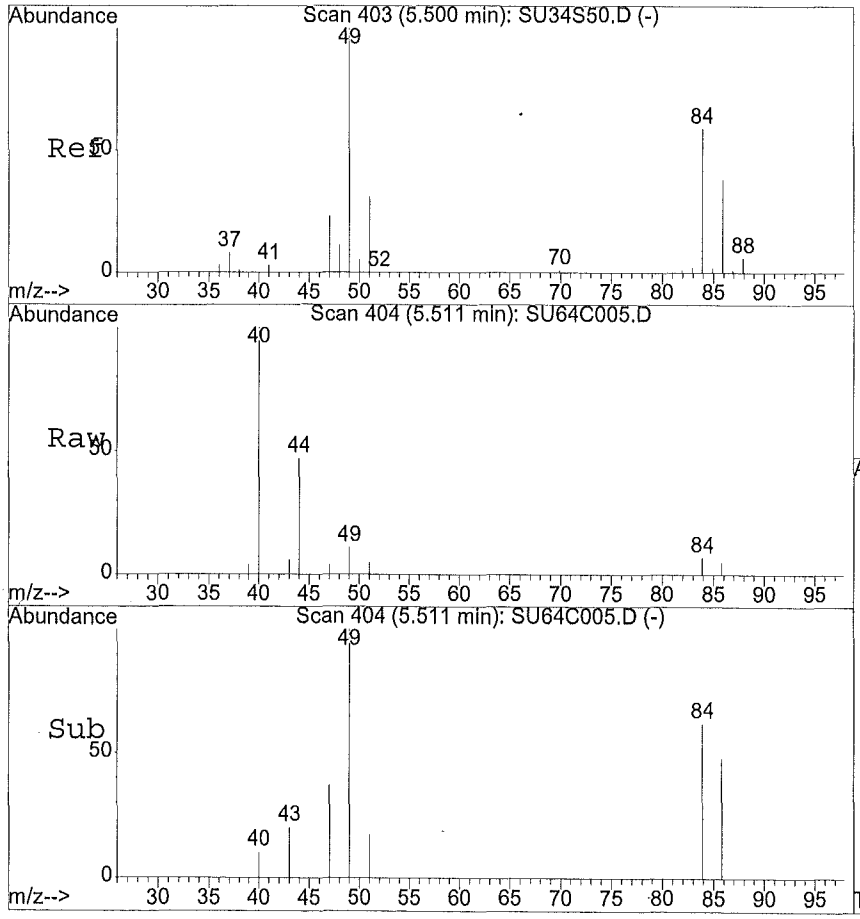


#13
Acetone
Concen: 6.98 ug/Kg
RT: 4.91 min Scan# 343
Delta R.T. 0.02 min
Lab File: SU64C005.D
Acq: 06/08/2015 20:21

Tgt Ion:43 Resp: 19926

Ion	Ratio	Lower	Upper
43	100		
58	6.9	10.9	32.6#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

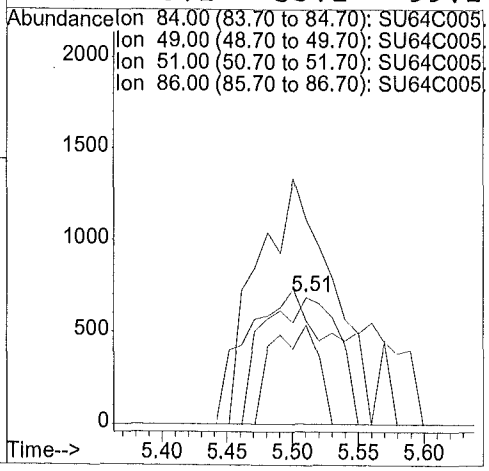




#16
Methylene chloride
Concen: 0.25 ug/Kg
RT: 5.51 min Scan# 404
Delta R.T. 0.01 min
Lab File: SU64C005.D
Acq: 06/08/2015 20:21

Tgt Ion:84 Resp: 2696

Ion	Ratio	Lower	Upper
84	100		
49	214.2	85.4	256.1
51	153.3	26.8	80.4#
86	48.2	33.1	99.2



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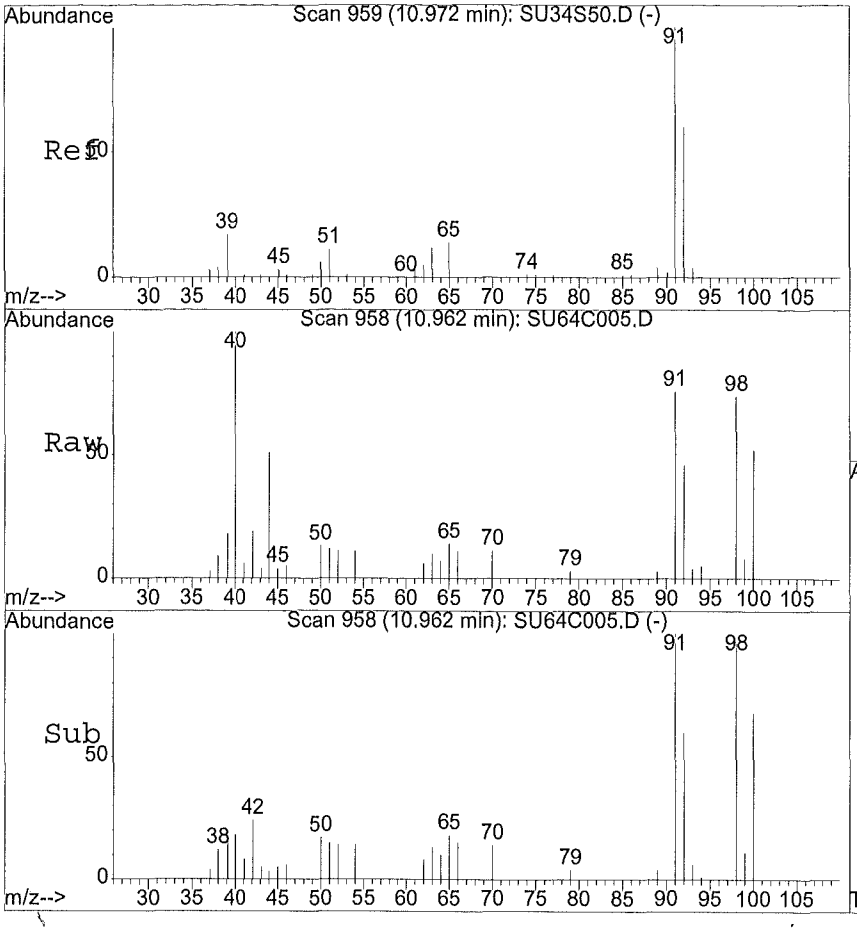
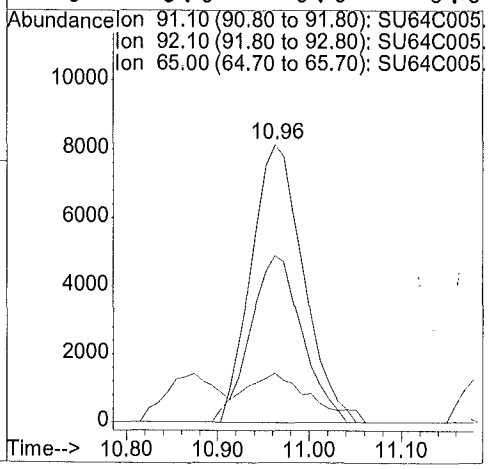
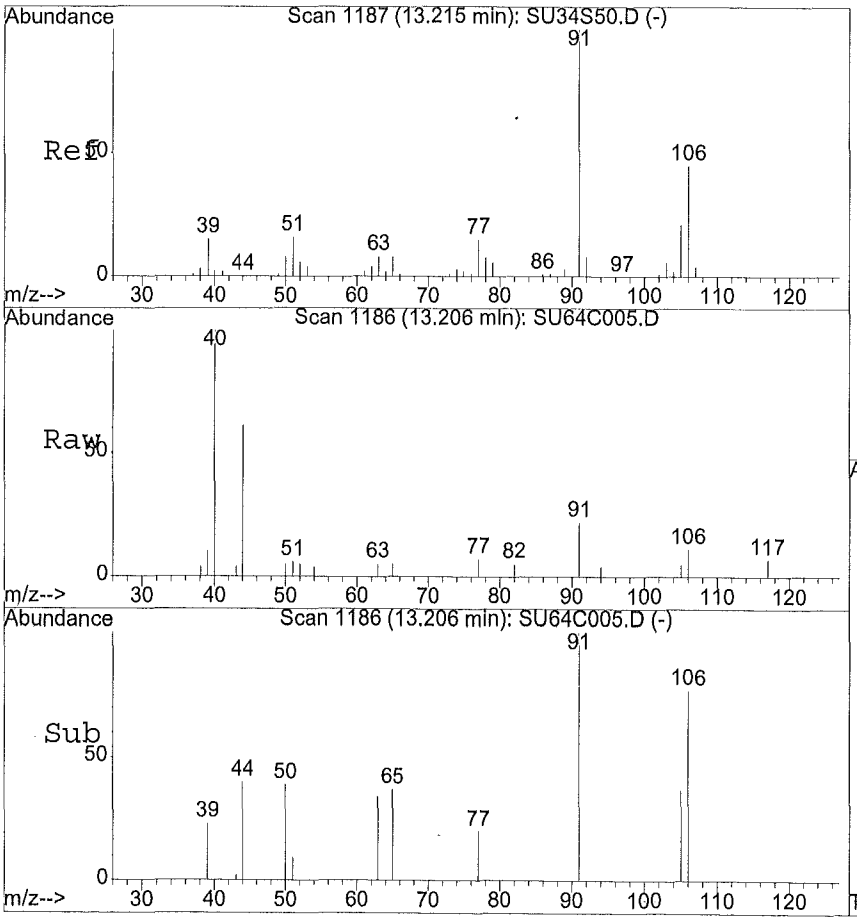


#48
Toluene
Concen: 1.23 ug/Kg
RT: 10.96 min Scan# 958
Delta R.T. -0.01 min
Lab File: SU64C005.D
Acq: 06/08/2015 20:21

Tgt Ion:91.1 Resp: 32152

Ion	Ratio	Lower	Upper
91	100		
92	59.9	48.2	72.2
65	20.3	11.7	17.5#
0	0.0	0.0	0.0

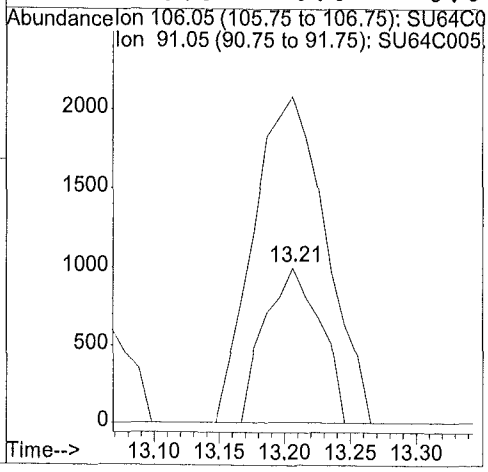




#56
m,p-Xylene
Concen: 0.26 ug/Kg
RT: 13.21 min Scan# 1186
Delta R.T. -0.01 min
Lab File: SU64C005.D
Acq: 06/08/2015 20:21

Tgt Ion:106.05 Resp: 2953

Ion	Ratio	Lower	Upper
106	100		
91	272.0	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.

F9M26

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542006

Sample wt/vol: 5.52 (g/mL) g Lab File ID: SU65C006

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 15. Date Analyzed: 06/08/2015

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	9.8	J
75-15-0	Carbon disulfide	5.4	U
79-20-9	Methyl acetate	5.4	U
75-09-2	Methylene chloride	0.31	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	7.4	J
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.

F9M26

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542006

Sample wt/vol: 5.52 (g/mL) g Lab File ID: SU65C006

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 15. Date Analyzed: 06/08/2015

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	2.6	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.
F9M26

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542006
Sample wt/vol: 5.52 (g/mL) g Lab File ID: SU65C006
Level: (TRACE or LOW/MED) LOW Date Received: 06/03/2015
% Moisture: not dec. 15. Date Analyzed: 06/08/2015
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.

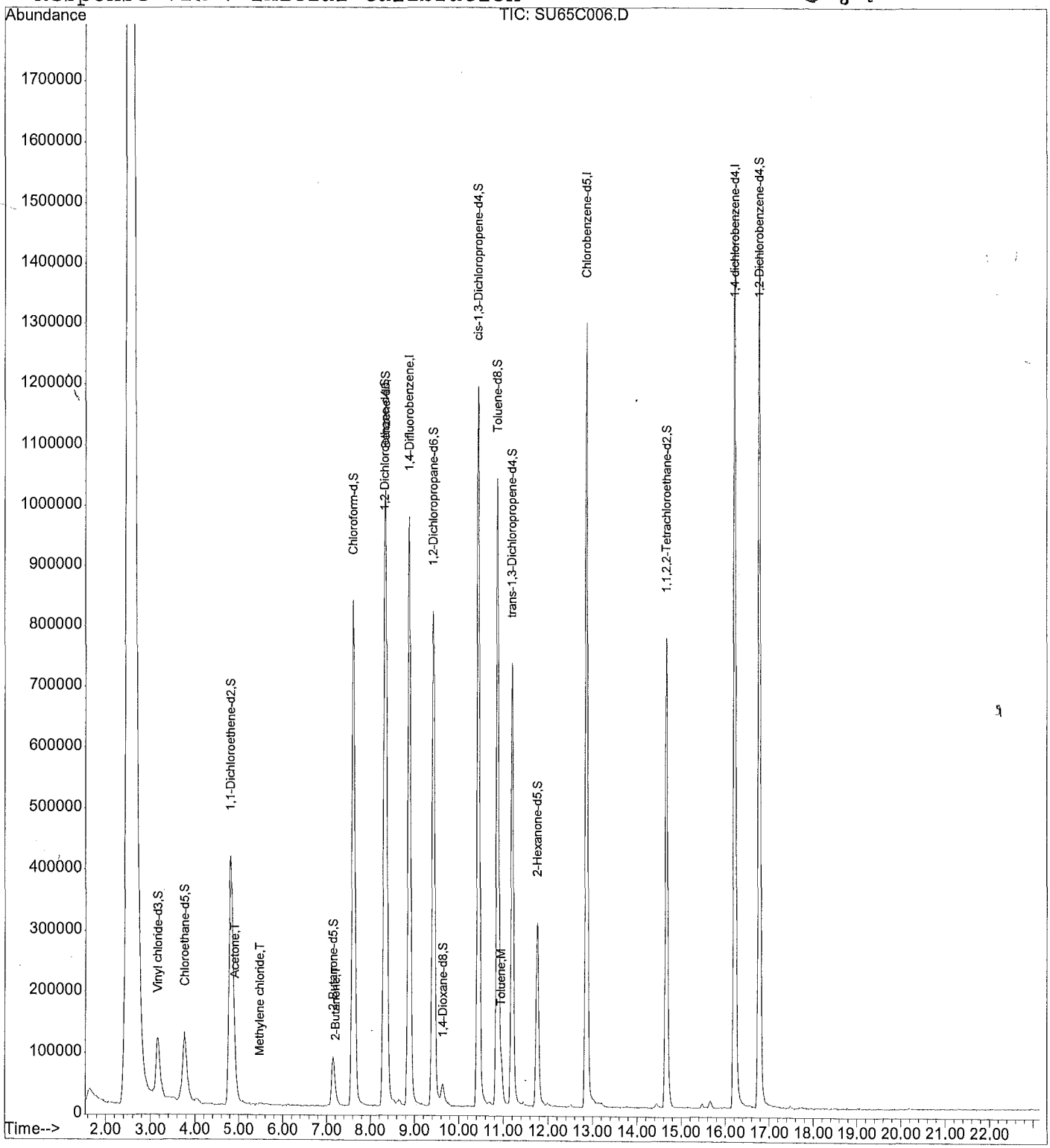
Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU65C006.D
Acq Time : 06/08/2015 20:52 Operator: CQC
Sample : 1515542006 F9M26 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 8 21:23 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

6.8.15



Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU65C006.D
Acq Time : 06/08/2015 20:52 Operator: CQC
Sample : 1515542006 F9M26 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 8 21:23 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	1501164	50.00 ug/Kg	113.72
30) Chlorobenzene-d5	12.85	117	1195835	50.00 ug/Kg	111.72
62) 1,4-dichlorobenzene-d4	16.21	152	675993	50.00 ug/Kg	111.11
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.17	65	413990	43.22 ug/Kg	86.43%
8) Chloroethane-d5	3.76	69	404361	44.36 ug/Kg	88.73%
11) 1,1-Dichloroethene-d2	4.81	63	1078567	34.15 ug/Kg	68.30%
22) 2-Butanone-d5	7.15	46	275659	106.01 ug/Kg	106.01%
25) Chloroform-d	7.61	84	1458528	47.14 ug/Kg	94.28%
27) 1,2-Dichloroethane-d4	8.31	65	723933	51.19 ug/Kg	102.38%
29) 1,4-Dioxane-d8	9.64	96	52570	1201.26 ug/Kg	120.13%
35) Benzene-d6	8.35	84	1437921	48.90 ug/Kg	97.79%
39) 1,2-Dichloropropane-d6	9.42	67	699040	48.26 ug/Kg	96.53%
42) cis-1,3-Dichloropropene-d4	10.43	79	1265513	52.15 ug/Kg	104.31%
44) trans-1,3-Dichloropropene-	11.19	79	738859	52.81 ug/Kg	105.62%
49) Toluene-d8	10.87	98	1292089	48.57 ug/Kg	97.13%
52) 2-Hexanone-d5	11.75	63	215814	116.38 ug/Kg	116.38%
61) 1,1,2,2-Tetrachloroethane-	14.66	84	803929	53.82 ug/Kg	107.64%
67) 1,2-Dichlorobenzene-d4	16.78	152	645146	49.78 ug/Kg	99.57%
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	25712	9.19 ug/Kg	91
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.48	84	3047	0.29 ug/Kg#	62
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	7.21	43	22402	6.89 ug/Kg#	74
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

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

00085

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU65C006.D
Acq Time : 06/08/2015 20:52 Operator: CQC
Sample : 1515542006 F9M26 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

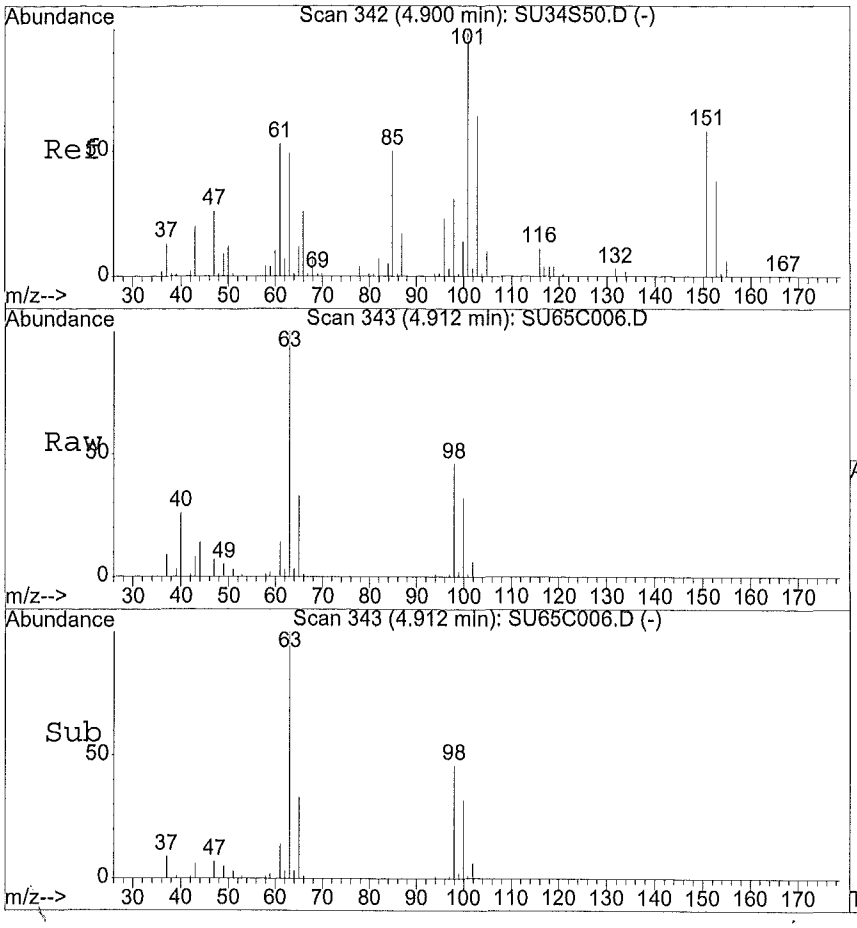
Quant Time: Jun 8 21:23 2015 Quant Results File: SCLPSS.RES

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	69002	2.40 ug/Kg#	95
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

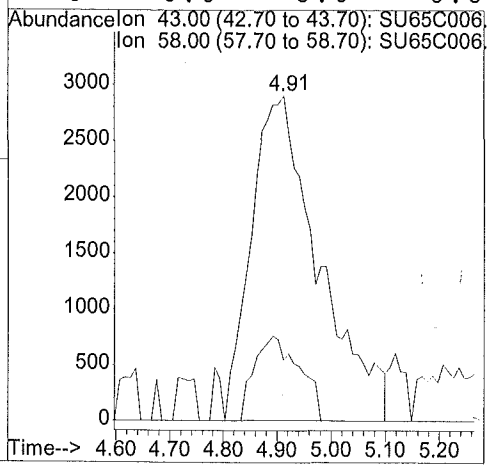
00096

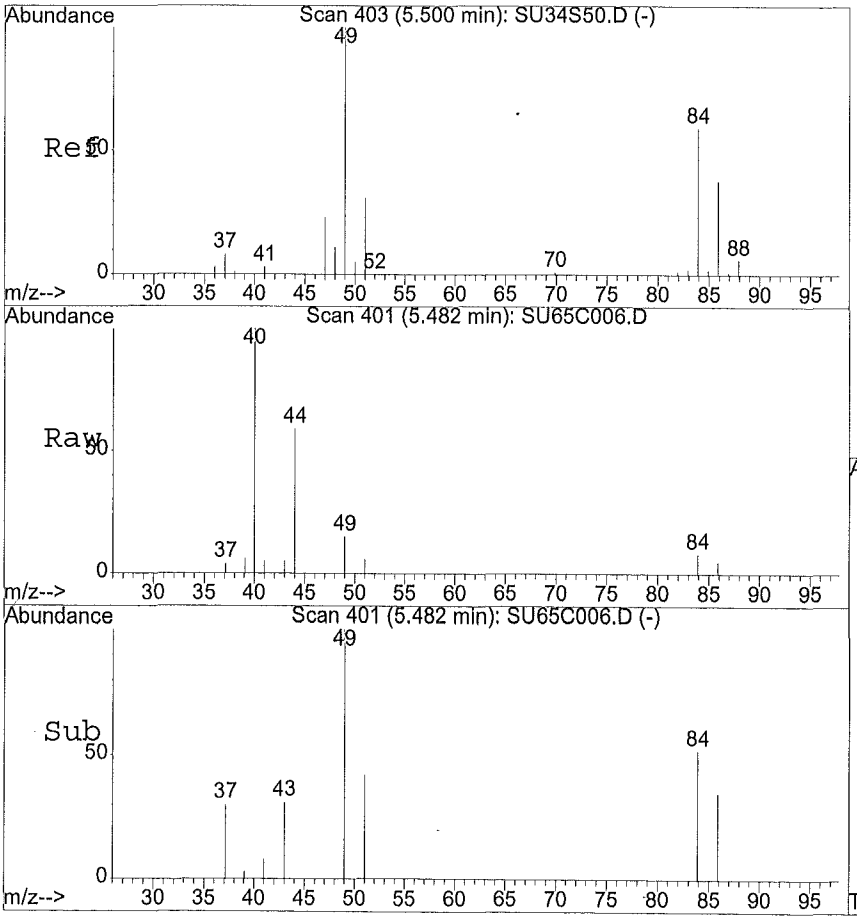


#13
Acetone
Concen: 9.19 ug/Kg
RT: 4.91 min Scan# 343
Delta R.T. 0.02 min
Lab File: SU65C006.D
Acq: 06/08/2015 20:52

Tgt Ion:43 Resp: 25712

Ion	Ratio	Lower	Upper
43	100		
58	17.2	10.9	32.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0

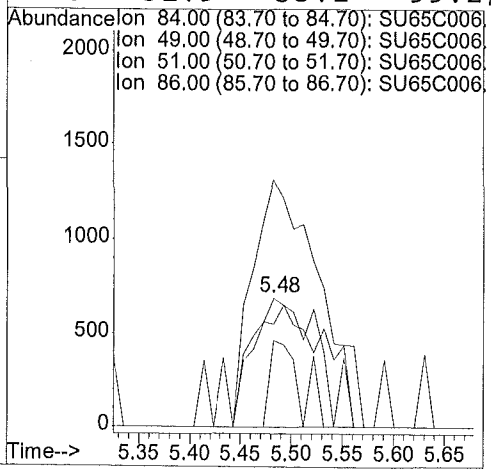


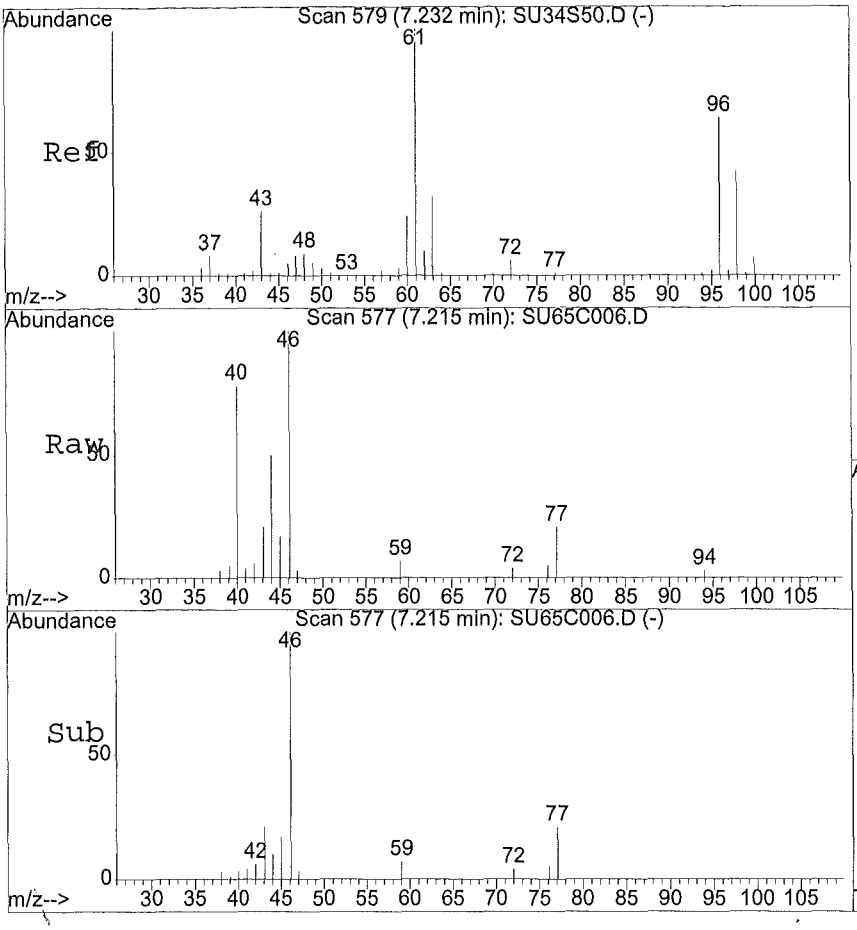


#16
Methylene chloride
Concen: 0.29 ug/Kg
RT: 5.48 min Scan# 401
Delta R.T. -0.02 min
Lab File: SU65C006.D
Acq: 06/08/2015 20:52

Tgt Ion:84 Resp: 3047

Ion	Ratio	Lower	Upper
84	100		
49	197.7	85.4	256.1
51	119.5	26.8	80.4#
86	31.9	33.1	99.2#

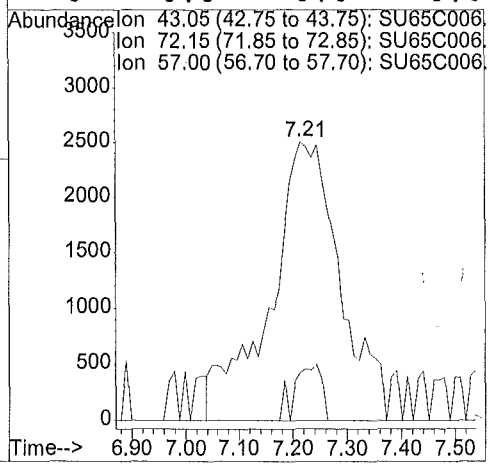


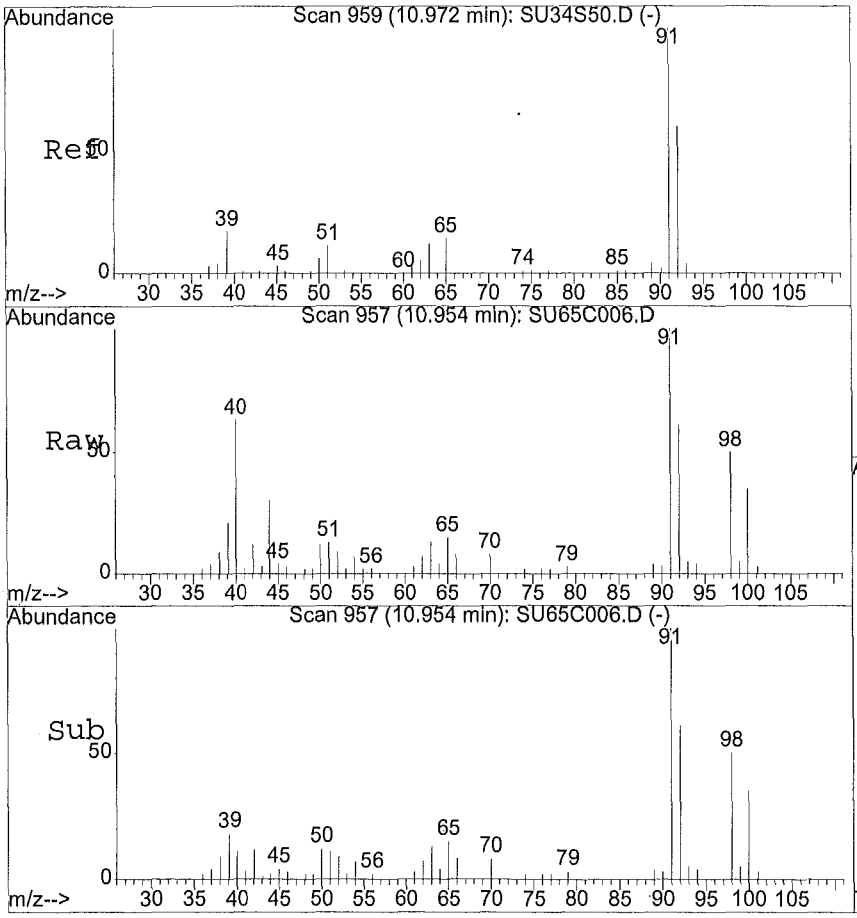


#21
2-Butanone
Concen: 6.89 ug/Kg
RT: 7.21 min Scan# 577
Delta R.T. -0.02 min
Lab File: SU65C006.D
Acq: 06/08/2015 20:52

Tgt Ion:43.05 Resp: 22402

Ion	Ratio	Lower	Upper
43	100		
72	6.8	15.9	23.9#
57	0.0	5.1	7.7#
0	0.0	0.0	0.0

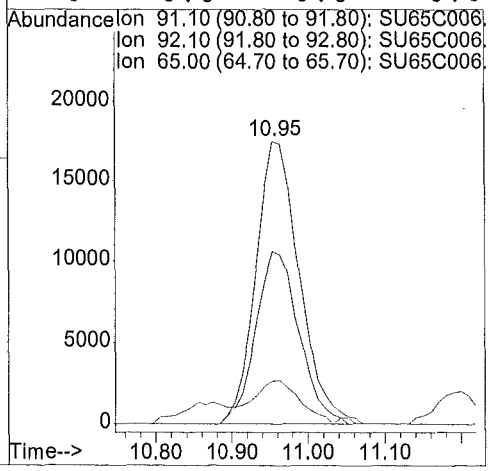




#48
Toluene
Concen: 2.40 ug/Kg
RT: 10.95 min Scan# 957
Delta R.T. -0.02 min
Lab File: SU65C006.D
Acq: 06/08/2015 20:52

Tgt Ion:91.1 Resp: 69002

Ion	Ratio	Lower	Upper
91	100		
92	60.5	48.2	72.2
65	25.6	11.7	17.5#
0	0.0	0.0	0.0



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

EPA SAMPLE NO.

F9M27

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542007

Sample wt/vol: 6.53 (g/mL) g Lab File ID: SU66C007

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 19. Date Analyzed: 06/08/2015

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	4.7	U
74-87-3	Chloromethane	4.7	U
75-01-4	Vinyl chloride	4.7	U
74-83-9	Bromomethane	4.7	U
75-00-3	Chloroethane	4.7	U
75-69-4	Trichlorofluoromethane	4.7	U
75-35-4	1,1-Dichloroethene	4.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.7	U
67-64-1	Acetone	7.0	J
75-15-0	Carbon disulfide	4.7	U
79-20-9	Methyl acetate	4.7	U
75-09-2	Methylene chloride	0.27	JB
156-60-5	trans-1,2-Dichloroethene	4.7	U
1634-04-4	Methyl tert-butyl ether	4.7	U
75-34-3	1,1-Dichloroethane	4.7	U
156-59-2	cis-1,2-Dichloroethene	4.7	U
78-93-3	2-Butanone	9.5	U
74-97-5	Bromochloromethane	4.7	U
67-66-3	Chloroform	4.7	U
71-55-6	1,1,1-Trichloroethane	4.7	U
110-82-7	Cyclohexane	4.7	U
56-23-5	Carbon tetrachloride	4.7	U
71-43-2	Benzene	4.7	U
107-06-2	1,2-Dichloroethane	4.7	U
123-91-1	1,4-Dioxane	95.	U

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

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

EPA SAMPLE NO.

F9M27

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542007

Sample wt/vol: 6.53 (g/mL) g Lab File ID: SU66C007

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 19. Date Analyzed: 06/08/2015

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	4.7	U
108-87-2	Methylcyclohexane	4.7	U
78-87-5	1,2-Dichloropropane	4.7	U
75-27-4	Bromodichloromethane	4.7	U
10061-01-5	cis-1,3-Dichloropropene	4.7	U
108-10-1	4-Methyl-2-Pentanone	9.5	U
108-88-3	Toluene	1.4	J
10061-02-6	trans-1,3-Dichloropropene	4.7	U
79-00-5	1,1,2-Trichloroethane	4.7	U
127-18-4	Tetrachloroethene	4.7	U
591-78-6	2-Hexanone	9.5	U
124-48-1	Dibromochloromethane	4.7	U
106-93-4	1,2-Dibromoethane	4.7	U
108-90-7	Chlorobenzene	4.7	U
100-41-4	Ethylbenzene	4.7	U
95-47-6	o-Xylene	4.7	U
179601-23-1	m,p-Xylene	4.7	U
100-42-5	Styrene	4.7	U
75-25-2	Bromoform	4.7	U
98-82-8	Isopropylbenzene	4.7	U
79-34-5	1,1,2,2-Tetrachloroethane	4.7	U
541-73-1	1,3-Dichlorobenzene	4.7	U
106-46-7	1,4-Dichlorobenzene	4.7	U
95-50-1	1,2-Dichlorobenzene	4.7	U
96-12-8	1,2-Dibromo-3-chloropropane	4.7	U
120-82-1	1,2,4-Trichlorobenzene	4.7	U
87-61-6	1,2,3-Trichlorobenzene	4.7	U

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

EPA SAMPLE NO.

F9M27

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542007

Sample wt/vol: 6.53 (g/mL) g Lab File ID: SU66C007

Level: (TRACE or LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 19. Date Analyzed: 06/08/2015

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.

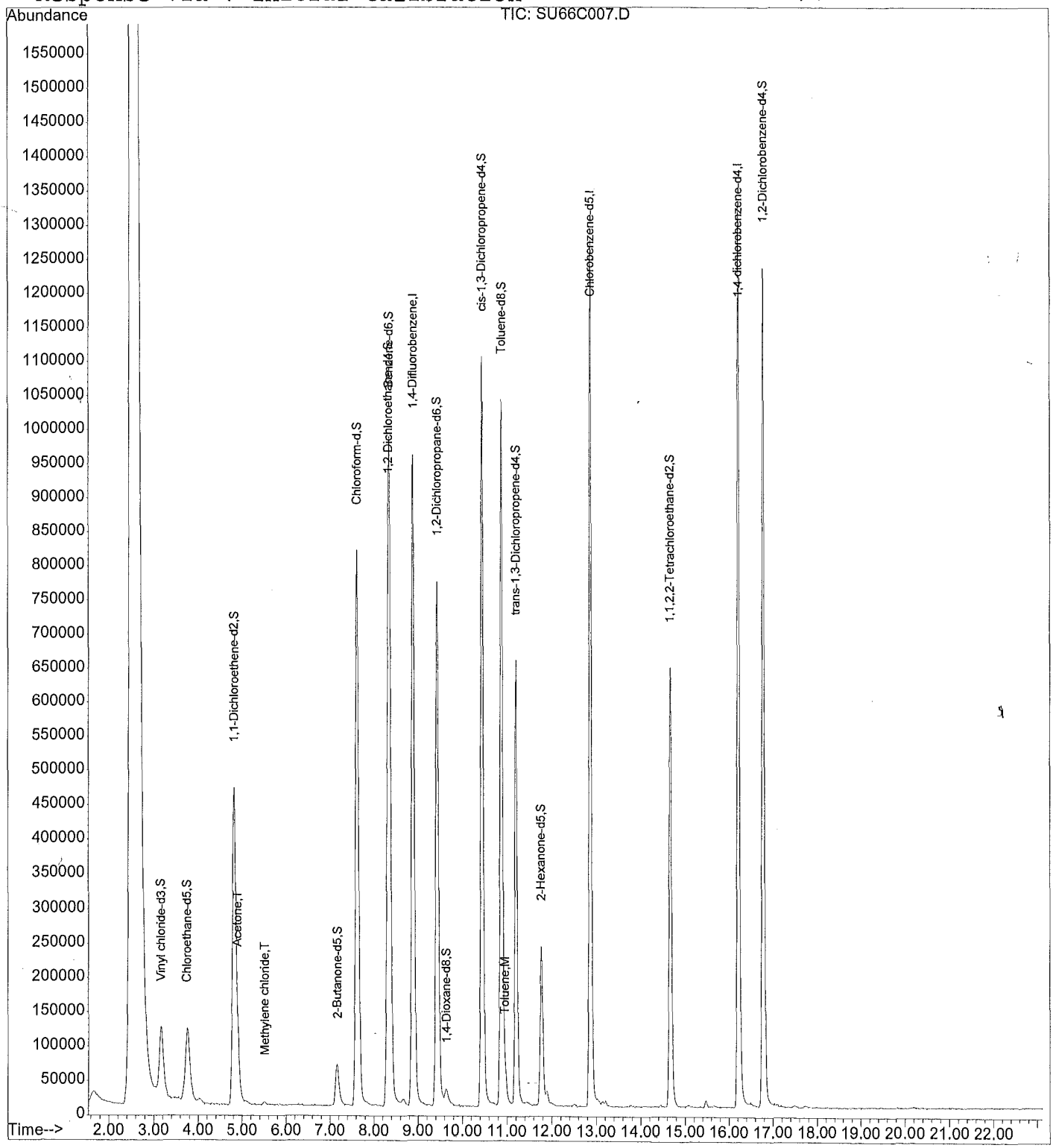
Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU66C007.D
Acq Time : 06/08/2015 21:23 Operator: CQC
Sample : 1515542007 F9M27 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 8 22:08 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

6.8.15



00092

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU66C007.D
Acq Time : 06/08/2015 21:23 Operator: CQC
Sample : 1515542007 F9M27 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 8 22:08 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	1485889	50.00 ug/Kg	112.56
30) Chlorobenzene-d5	12.86	117	1169795	50.00 ug/Kg	109.28
62) 1,4-dichlorobenzene-d4	16.22	152	609930	50.00 ug/Kg	100.25
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.17	65	428853	45.23 ug/Kg	90.46%
8) Chloroethane-d5	3.76	69	408315	45.26 ug/Kg	90.52%
11) 1,1-Dichloroethene-d2	4.82	63	1124273	35.96 ug/Kg	71.92%
22) 2-Butanone-d5	7.15	46	203766	79.17 ug/Kg	79.17%
25) Chloroform-d	7.61	84	1435777	46.88 ug/Kg	93.77%
27) 1,2-Dichloroethane-d4	8.31	65	646453	46.18 ug/Kg	92.36%
29) 1,4-Dioxane-d8	9.63	96	33906	782.74 ug/Kg	78.27%
35) Benzene-d6	8.35	84	1426426	49.59 ug/Kg	99.17%
39) 1,2-Dichloropropane-d6	9.43	67	665489	46.97 ug/Kg	93.94%
42) cis-1,3-Dichloropropene-d4	10.44	79	1154493	48.64 ug/Kg	97.28%
44) trans-1,3-Dichloropropene-	11.20	79	650509	47.53 ug/Kg	95.06%
49) Toluene-d8	10.87	98	1281066	49.22 ug/Kg	98.45%
52) 2-Hexanone-d5	11.76	63	162560	89.61 ug/Kg	89.61%
61) 1,1,2,2-Tetrachloroethane-	14.66	84	663698	45.42 ug/Kg	90.84%
67) 1,2-Dichlorobenzene-d4	16.78	152	560081	47.90 ug/Kg	95.80%
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	20500	7.40 ug/Kg#	77
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.50	84	2988	0.29 ug/Kg#	63
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

00093

Quantitation Report

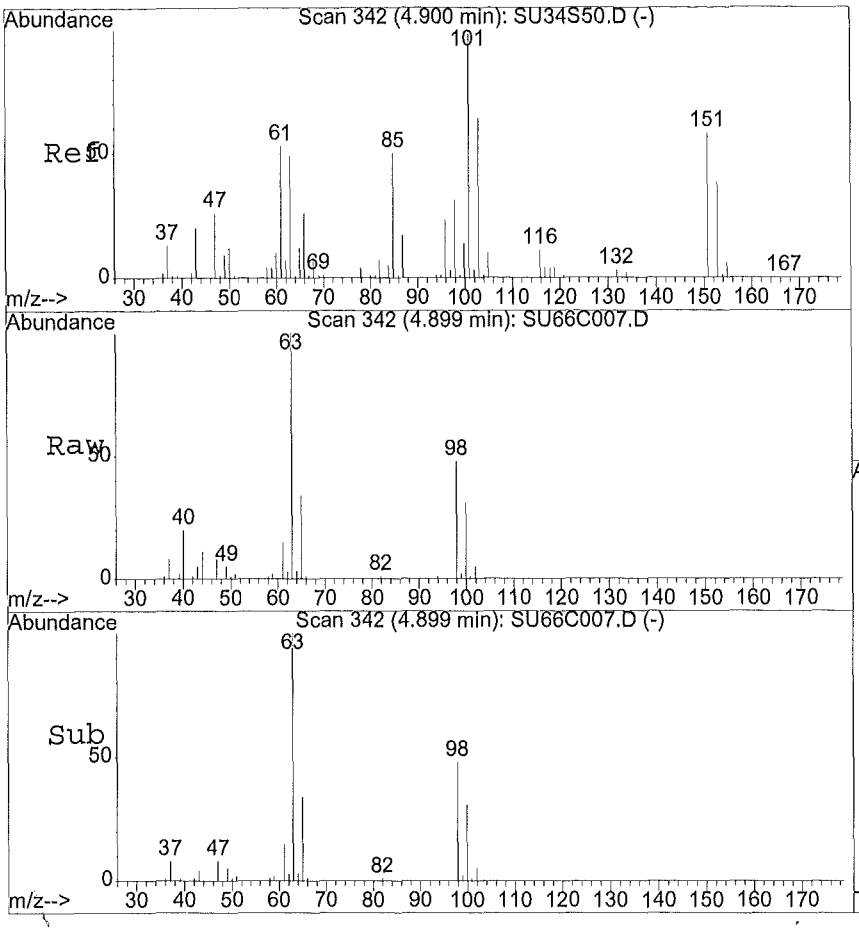
Data File : D:\HPCHEM\1\DATA\08JUN15S\SU66C007.D
Acq Time : 06/08/2015 21:23 Operator: CQC
Sample : 1515542007 F9M27 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 8 22:08 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	41656	1.48 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	

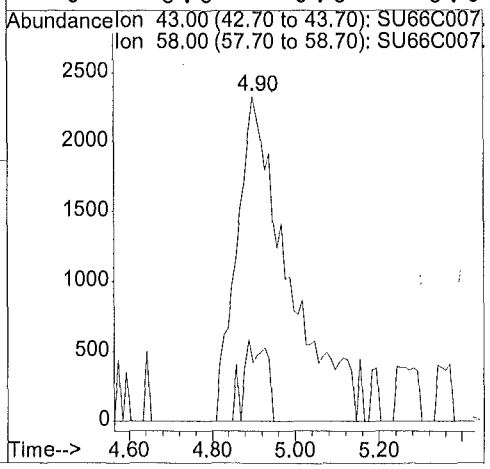
(#) = qualifier out of range (m) = manual integration

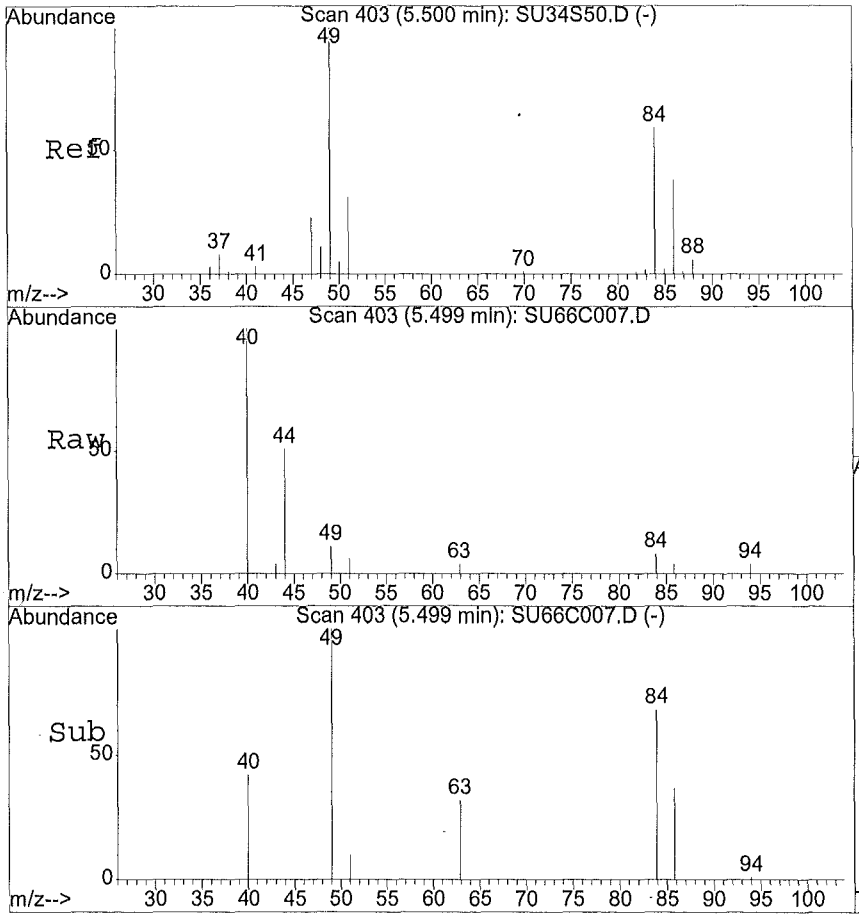


#13
Acetone
Concen: 7.40 ug/Kg
RT: 4.90 min Scan# 342
Delta R.T. 0.01 min
Lab File: SU66C007.D
Acq: 06/08/2015 21:23

Tgt Ion:43 Resp: 20500

Ion	Ratio	Lower	Upper
43	100		
58	10.8	10.9	32.6#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

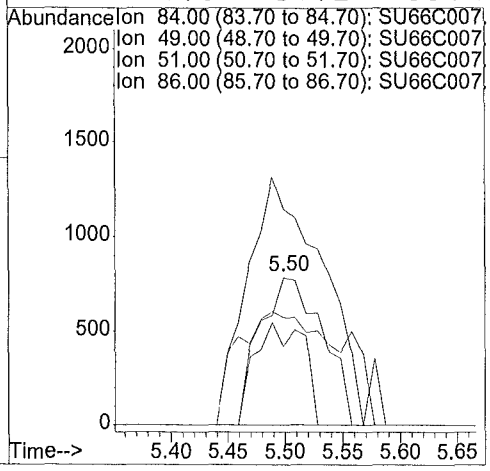


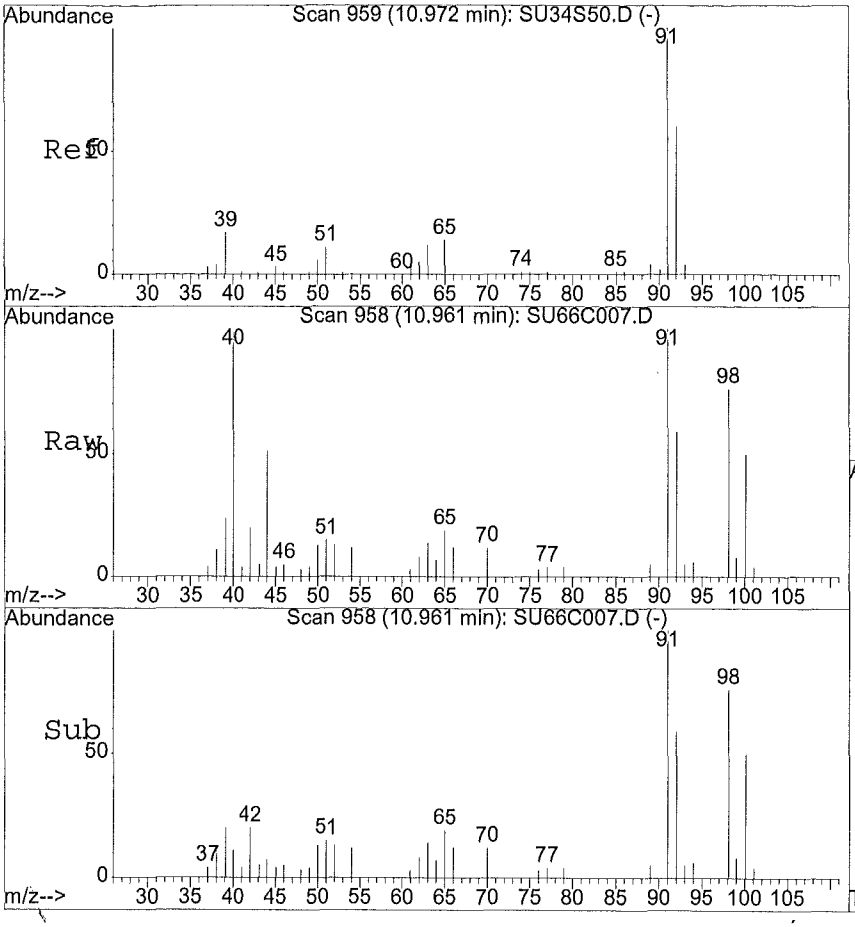


#16
Methylene chloride
Concen: 0.29 ug/Kg
RT: 5.50 min Scan# 403
Delta R.T. -0.00 min
Lab File: SU66C007.D
Acq: 06/08/2015 21:23

Tgt Ion:84 Resp: 2988

Ion	Ratio	Lower	Upper
84	100		
49	206.8	85.4	256.1
51	124.7	26.8	80.4#
86	53.8	33.1	99.2

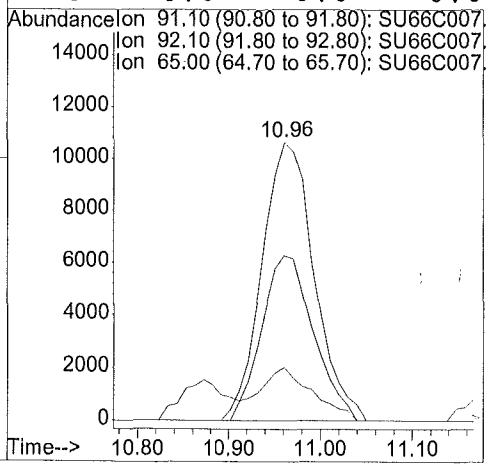




#48
Toluene
Concen: 1.48 ug/Kg
RT: 10.96 min Scan# 958
Delta R.T. -0.01 min
Lab File: SU66C007.D
Acq: 06/08/2015 21:23

Tgt Ion:91.1 Resp: 41656

Ion	Ratio	Lower	Upper
91	100		
92	58.8	48.2	72.2
65	19.1	11.7	17.5#
0	0.0	0.0	0.0



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

EPA SAMPLE NO.

F9M28

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542010

Sample wt/vol: 6.22 (g/mL) g Lab File ID: SU67C010

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 17. Date Analyzed: 06/08/2015

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	0.36	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	9.7	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	97.	U

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

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

EPA SAMPLE NO.

F9M28

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542010

Sample wt/vol: 6.22 (g/mL) g Lab File ID: SU67C010

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 17. Date Analyzed: 06/08/2015

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	9.7	U
108-88-3	Toluene	12.	
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	9.7	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	0.44	J
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.
F9M28

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542010
Sample wt/vol: 6.22 (g/mL) g Lab File ID: SU67C010
Level: (TRACE or LOW/MED) LOW Date Received: 06/03/2015
% Moisture: not dec. 17. Date Analyzed: 06/08/2015
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.

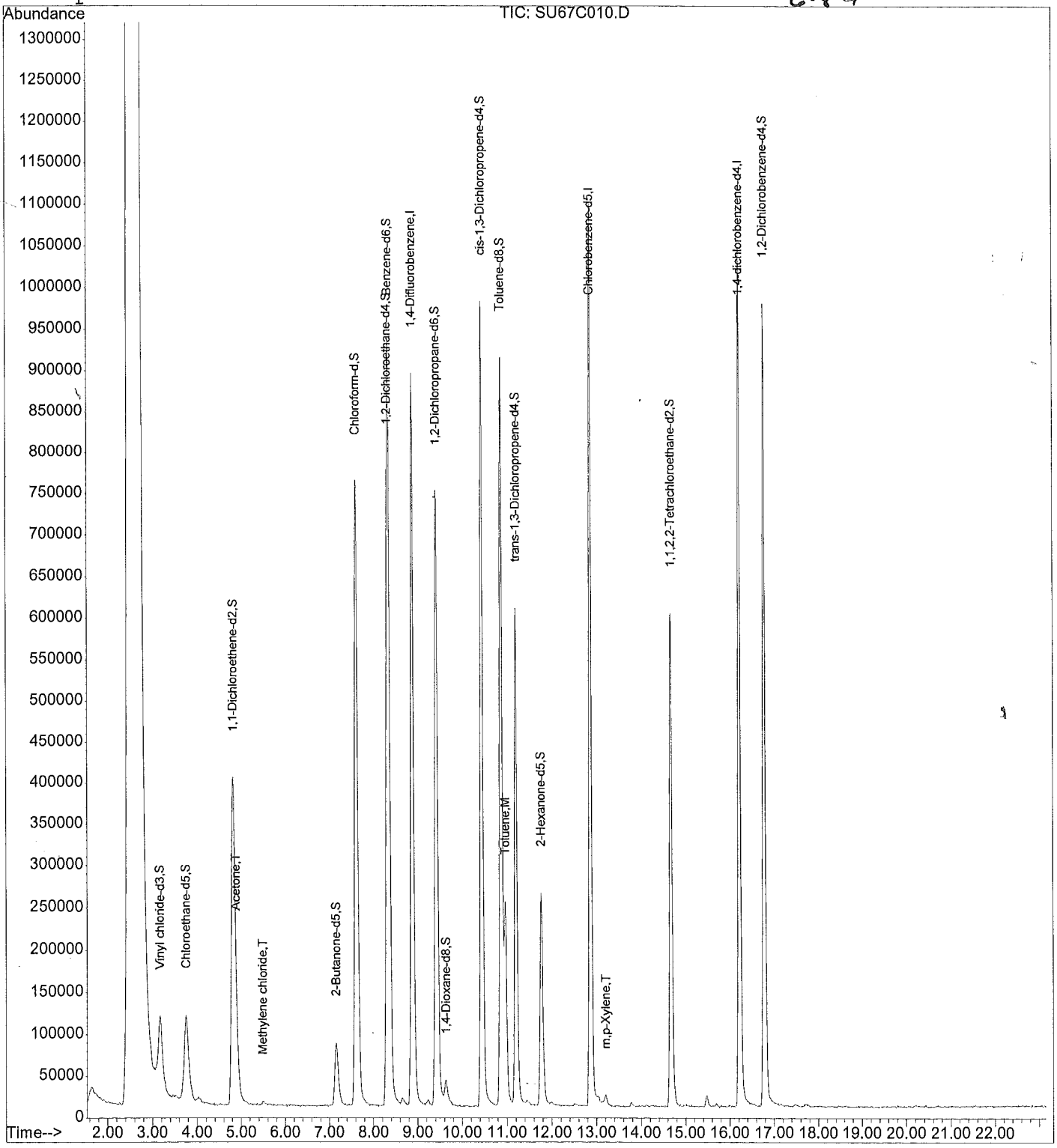
Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU67C010.D
Acq Time : 06/08/2015 21:53 Operator: CQC
Sample : 1515542010 F9M28 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 8 22:57 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

6.8.5



Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU67C010.D
Acq Time : 06/08/2015 21:53 Operator: CQC
Sample : 1515542010 F9M28 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 8 22:57 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	1356207	50.00 ug/Kg	102.74
30) Chlorobenzene-d5	12.86	117	1007948	50.00 ug/Kg	94.16
62) 1,4-dichlorobenzene-d4	16.22	152	477848	50.00 ug/Kg	78.54
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.17	65	386991	44.72 ug/Kg	89.43%
8) Chloroethane-d5	3.75	69	378742	45.99 ug/Kg	91.99%
11) 1,1-Dichloroethene-d2	4.81	63	992469	34.78 ug/Kg	69.56%
22) 2-Butanone-d5	7.16	46	245380	104.46 ug/Kg	104.46%
25) Chloroform-d	7.62	84	1347589	48.21 ug/Kg	96.42%
27) 1,2-Dichloroethane-d4	8.31	65	653172	51.12 ug/Kg	102.24%
29) 1,4-Dioxane-d8	9.64	96	43604	1102.88 ug/Kg	110.29%
35) Benzene-d6	8.35	84	1315880	53.09 ug/Kg	106.18%
39) 1,2-Dichloropropane-d6	9.42	67	643073	52.68 ug/Kg	105.35%
42) cis-1,3-Dichloropropene-d4	10.44	79	1034429	50.58 ug/Kg	101.15%
44) trans-1,3-Dichloropropene-	11.20	79	604979	51.30 ug/Kg	102.60%
49) Toluene-d8	10.88	98	1132987	50.53 ug/Kg	101.05%
52) 2-Hexanone-d5	11.76	63	173613	111.07 ug/Kg	111.07%
61) 1,1,2,2-Tetrachloroethane-	14.67	84	624654	49.61 ug/Kg	99.22%
67) 1,2-Dichlorobenzene-d4	16.78	152	438703	47.89 ug/Kg	95.78%
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	4.89	43	15227	6.02 ug/Kg#	64
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.49	84	3553	0.37 ug/Kg#	66
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

00101

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU67C010.D
Acq Time : 06/08/2015 21:53 Operator: CQC
Sample : 1515542010 F9M28 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

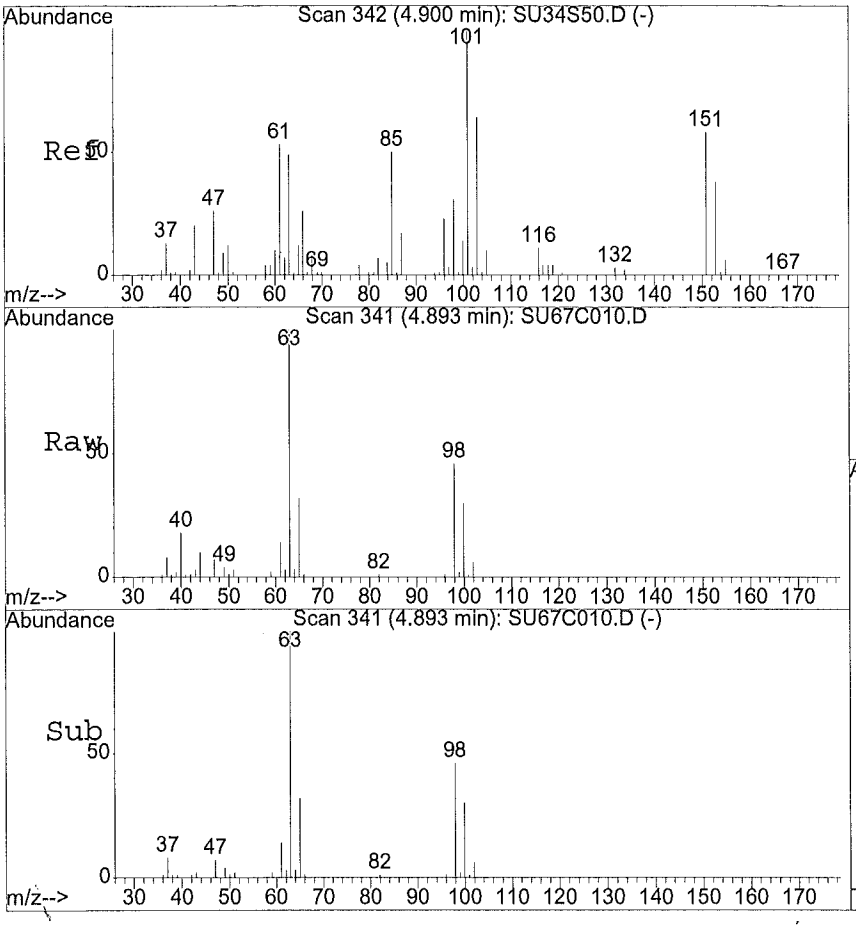
Quant Time: Jun 8 22:57 2015 Quant Results File: SCLPSS.RES

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	306621	12.63 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	13.21	106	4857	0.45 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

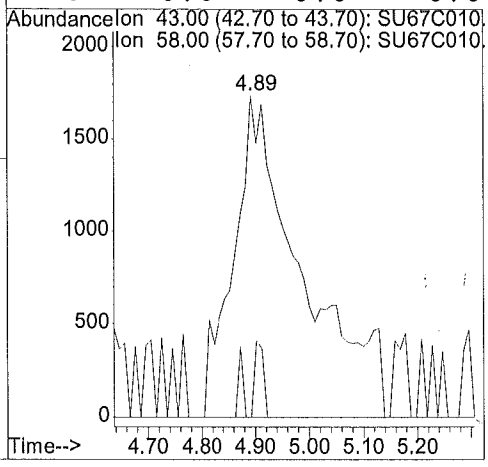
00102

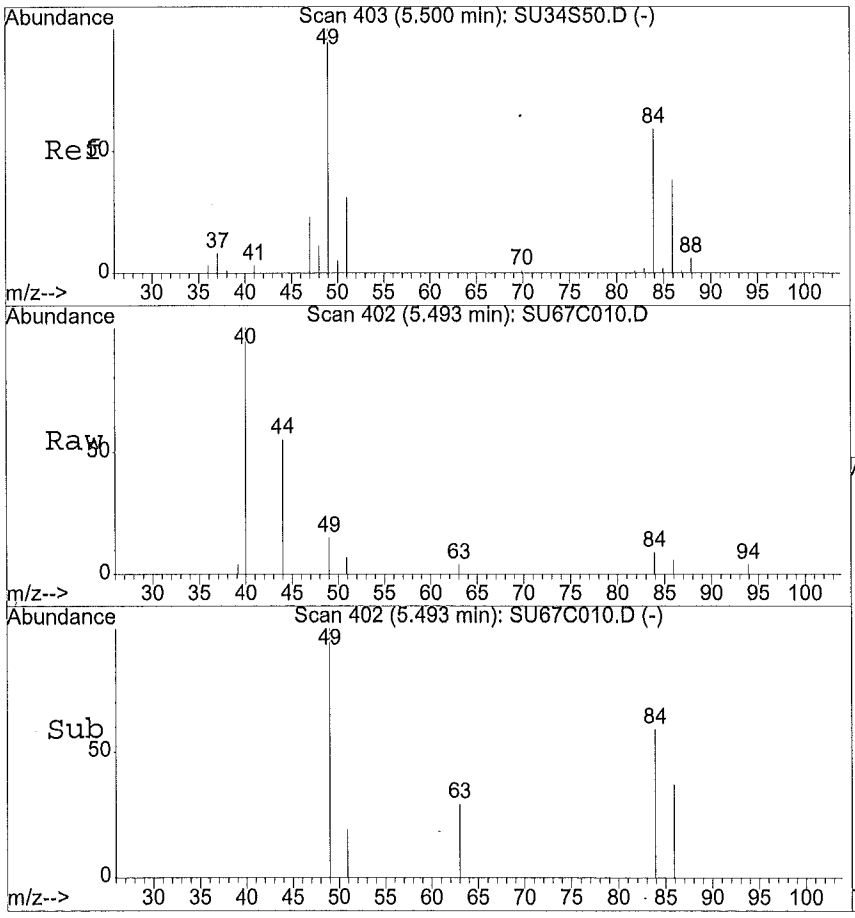


#13
Acetone
Concen: 6.02 ug/Kg
RT: 4.89 min Scan# 341
Delta R.T. 0.00 min
Lab File: SU67C010.D
Acq: 06/08/2015 21:53

Tgt Ion:43 Resp: 15227

Ion	Ratio	Lower	Upper
43	100		
58	4.5	10.9	32.6#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

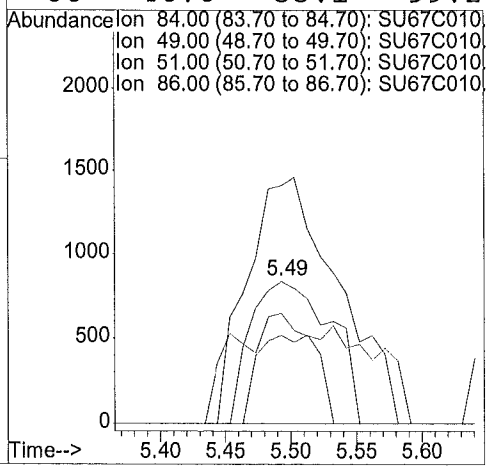


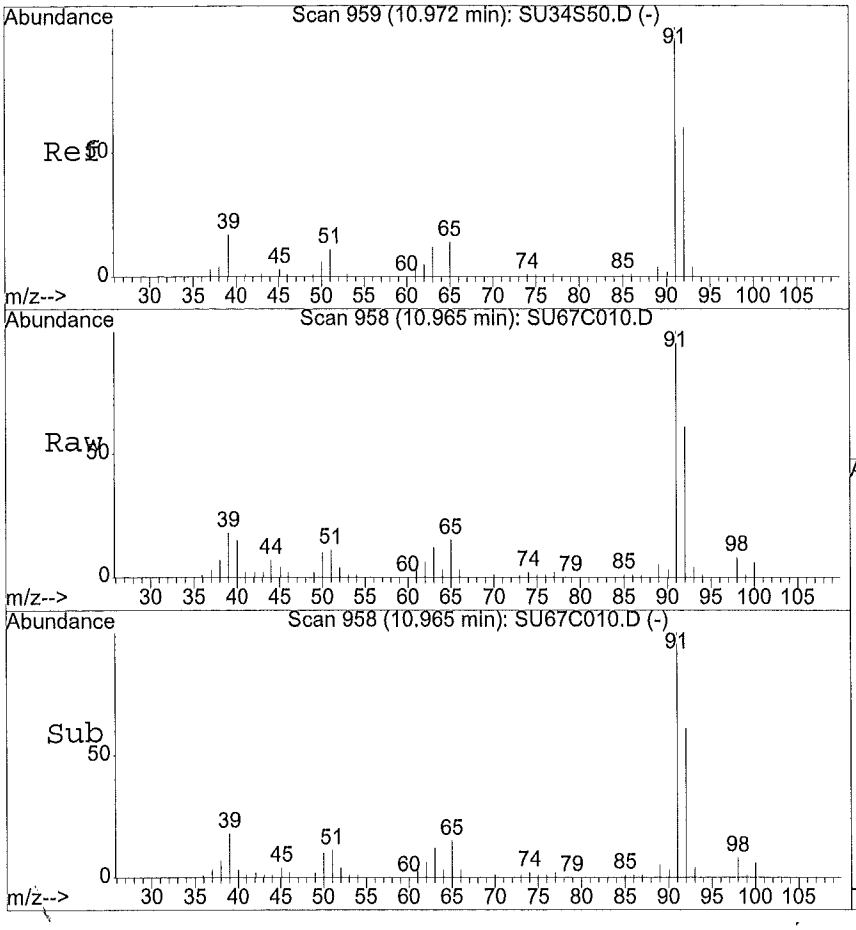


#16
Methylene chloride
Concen: 0.37 ug/Kg
RT: 5.49 min Scan# 402
Delta R.T. -0.01 min
Lab File: SU67C010.D
Acq: 06/08/2015 21:53

Tgt Ion:84 Resp: 3553

Ion	Ratio	Lower	Upper
84	100		
49	196.5	85.4	256.1
51	120.6	26.8	80.4#
86	46.6	33.1	99.2

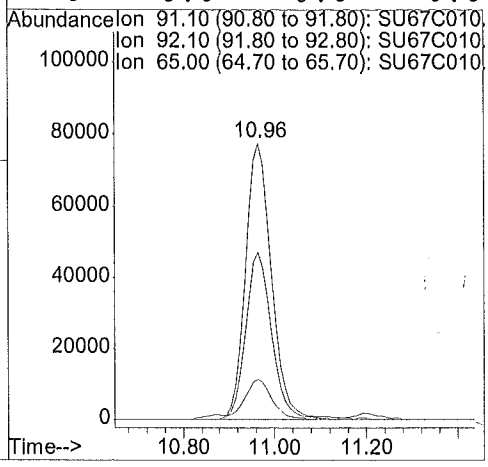


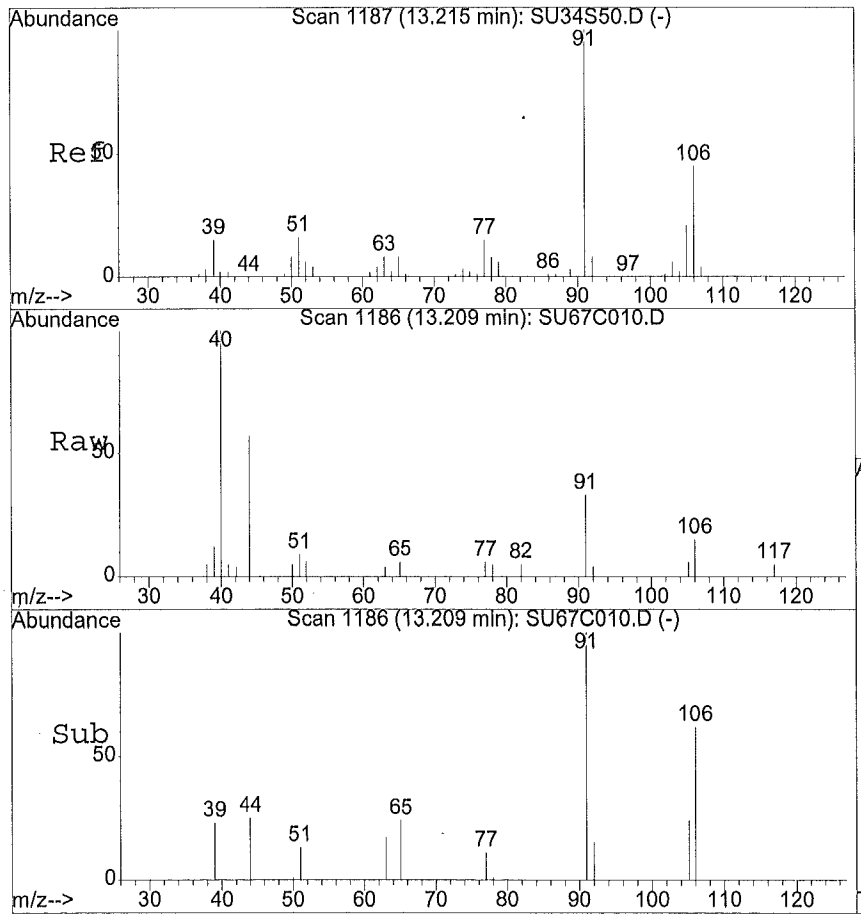


#48
Toluene
Concen: 12.63 ug/Kg
RT: 10.96 min Scan# 958
Delta R.T. -0.01 min
Lab File: SU67C010.D
Acq: 06/08/2015 21:53

Tgt Ion:91.1 Resp: 306621

Ion	Ratio	Lower	Upper
91	100		
92	59.8	48.2	72.2
65	16.5	11.7	17.5
0	0.0	0.0	0.0

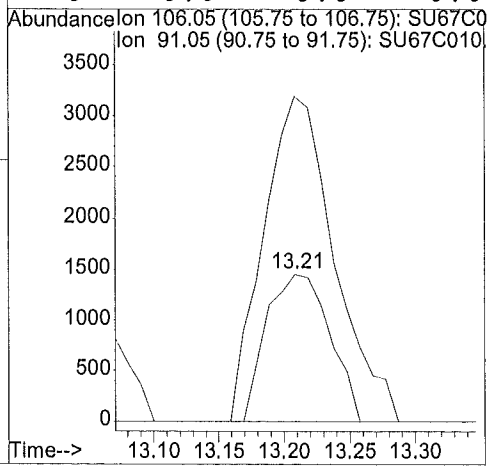




#56
m,p-Xylene
Concen: 0.45 ug/Kg
RT: 13.21 min Scan# 1186
Delta R.T. -0.01 min
Lab File: SU67C010.D
Acq: 06/08/2015 21:53

Tgt Ion:106.05 Resp: 4857

Ion	Ratio	Lower	Upper
106	100		
91	246.1	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.

F9M29

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542011

Sample wt/vol: 6.23 (g/mL) g Lab File ID: SU68C011

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 14. Date Analyzed: 06/08/2015

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	4.7	U
74-87-3	Chloromethane	4.7	U
75-01-4	Vinyl chloride	4.7	U
74-83-9	Bromomethane	4.7	U
75-00-3	Chloroethane	4.7	U
75-69-4	Trichlorofluoromethane	4.7	U
75-35-4	1,1-Dichloroethene	4.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.7	U
67-64-1	Acetone	9.3	U
75-15-0	Carbon disulfide	4.7	U
79-20-9	Methyl acetate	4.7	U
75-09-2	Methylene chloride	0.22	JB
156-60-5	trans-1,2-Dichloroethene	4.7	U
1634-04-4	Methyl tert-butyl ether	4.7	U
75-34-3	1,1-Dichloroethane	4.7	U
156-59-2	cis-1,2-Dichloroethene	4.7	U
78-93-3	2-Butanone	9.3	U
74-97-5	Bromochloromethane	4.7	U
67-66-3	Chloroform	4.7	U
71-55-6	1,1,1-Trichloroethane	4.7	U
110-82-7	Cyclohexane	4.7	U
56-23-5	Carbon tetrachloride	4.7	U
71-43-2	Benzene	4.7	U
107-06-2	1,2-Dichloroethane	4.7	U
123-91-1	1,4-Dioxane	93.	U

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

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

EPA SAMPLE NO.

F9M29

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542011

Sample wt/vol: 6.23 (g/mL) g Lab File ID: SU68C011

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 14. Date Analyzed: 06/08/2015

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	4.7	U
108-87-2	Methylcyclohexane	4.7	U
78-87-5	1,2-Dichloropropane	4.7	U
75-27-4	Bromodichloromethane	4.7	U
10061-01-5	cis-1,3-Dichloropropene	4.7	U
108-10-1	4-Methyl-2-Pentanone	9.3	U
108-88-3	Toluene	4.3	J
10061-02-6	trans-1,3-Dichloropropene	4.7	U
79-00-5	1,1,2-Trichloroethane	4.7	U
127-18-4	Tetrachloroethene	4.7	U
591-78-6	2-Hexanone	9.3	U
124-48-1	Dibromochloromethane	4.7	U
106-93-4	1,2-Dibromoethane	4.7	U
108-90-7	Chlorobenzene	4.7	U
100-41-4	Ethylbenzene	4.7	U
95-47-6	o-Xylene	4.7	U
179601-23-1	m,p-Xylene	0.22	J
100-42-5	Styrene	4.7	U
75-25-2	Bromoform	4.7	U
98-82-8	Isopropylbenzene	4.7	U
79-34-5	1,1,2,2-Tetrachloroethane	4.7	U
541-73-1	1,3-Dichlorobenzene	4.7	U
106-46-7	1,4-Dichlorobenzene	4.7	U
95-50-1	1,2-Dichlorobenzene	4.7	U
96-12-8	1,2-Dibromo-3-chloropropane	4.7	U
120-82-1	1,2,4-Trichlorobenzene	4.7	U
87-61-6	1,2,3-Trichlorobenzene	4.7	U

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

EPA SAMPLE NO.
F9M29

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542011
Sample wt/vol: 6.23 (g/mL) g Lab File ID: SU68C011
Level: (TRACE or LOW/MED) LOW Date Received: 06/03/2015
% Moisture: not dec. 14. Date Analyzed: 06/08/2015
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\08JUN15S\SU68C011.D
Acq Time : 06/08/2015 22:23
Sample : 1515542011 F9M29
Misc : 1515542

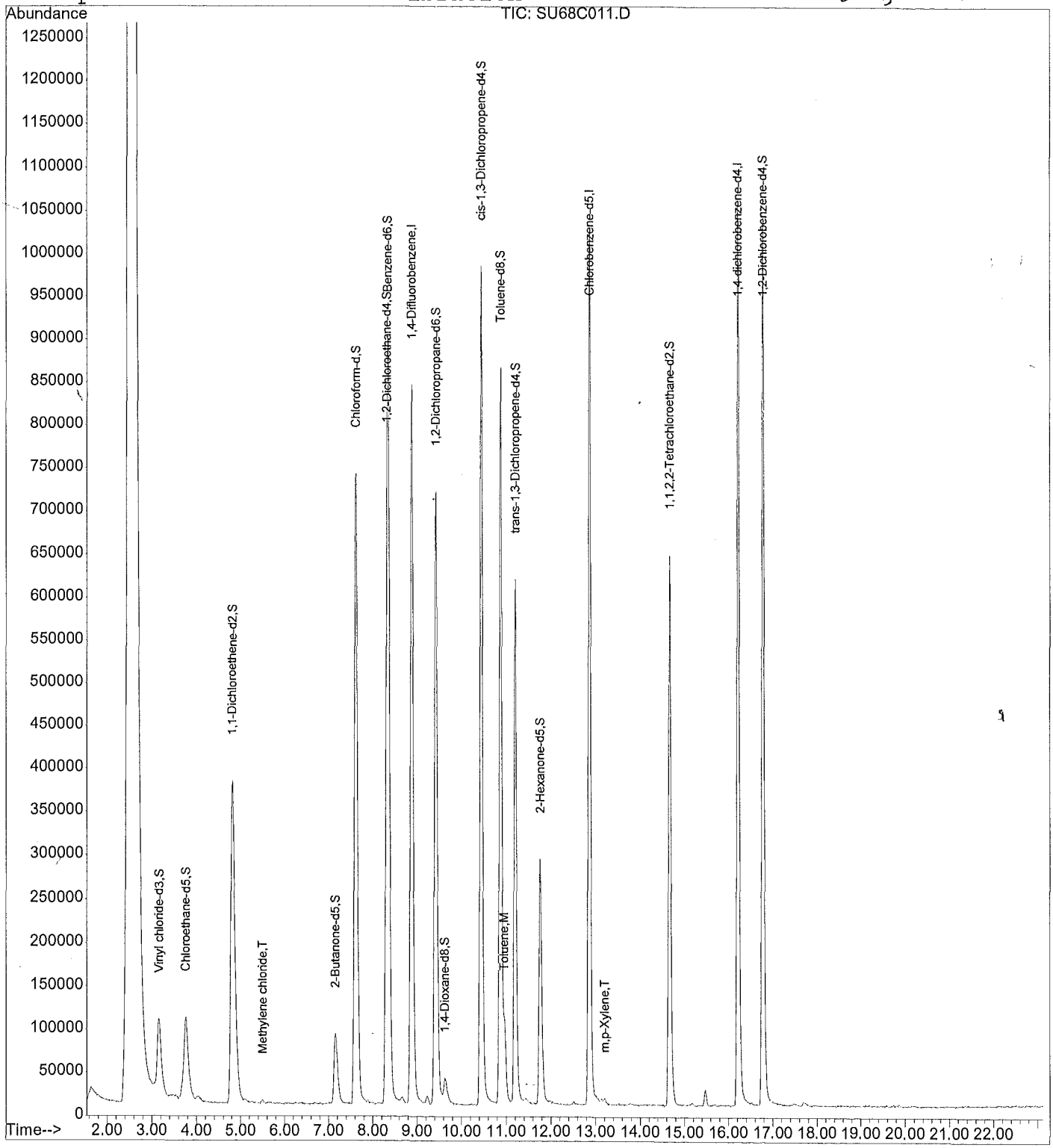
Operator: CQC
Inst : 5972-S
Multiplr: 1.00

Quant Time: Jun 8 22:58 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

6.8.15



Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU68C011.D
Acq Time : 06/08/2015 22:23 Operator: CQC
Sample : 1515542011 F9M29 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 8 22:58 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	1284113	50.00	ug/Kg	97.27
30) Chlorobenzene-d5	12.87	117	957405	50.00	ug/Kg	89.44
62) 1,4-dichlorobenzene-d4	16.21	152	480568	50.00	ug/Kg	78.99
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	3.16	65	371468	45.33	ug/Kg	90.67%
8) Chloroethane-d5	3.75	69	358960	46.04	ug/Kg	92.08%
11) 1,1-Dichloroethene-d2	4.82	63	947023	35.05	ug/Kg	70.10%
22) 2-Butanone-d5	7.16	46	270414	121.57	ug/Kg	121.57%
25) Chloroform-d	7.62	84	1290859	48.77	ug/Kg	97.55%
27) 1,2-Dichloroethane-d4	8.31	65	639399	52.85	ug/Kg	105.71%
29) 1,4-Dioxane-d8	9.64	96	43590	1164.43	ug/Kg	116.44%
35) Benzene-d6	8.35	84	1252005	53.18	ug/Kg	106.35%
39) 1,2-Dichloropropane-d6	9.43	67	610232	52.62	ug/Kg	105.25%
42) cis-1,3-Dichloropropene-d4	10.45	79	1031055	53.07	ug/Kg	106.15%
44) trans-1,3-Dichloropropene-	11.20	79	612693	54.70	ug/Kg	109.39%
49) Toluene-d8	10.88	98	1069005	50.19	ug/Kg	100.38%
52) 2-Hexanone-d5	11.76	63	189527	127.65	ug/Kg	127.65%
61) 1,1,2,2-Tetrachloroethane-	14.67	84	663636	55.49	ug/Kg	110.98%
67) 1,2-Dichlorobenzene-d4	16.78	152	460507	49.99	ug/Kg	99.97%
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	5.52	84	2143	0.24	ug/Kg#	40
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

00199

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU68C011.D
Acq Time : 06/08/2015 22:23 Operator: CQC
Sample : 1515542011 F9M29 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

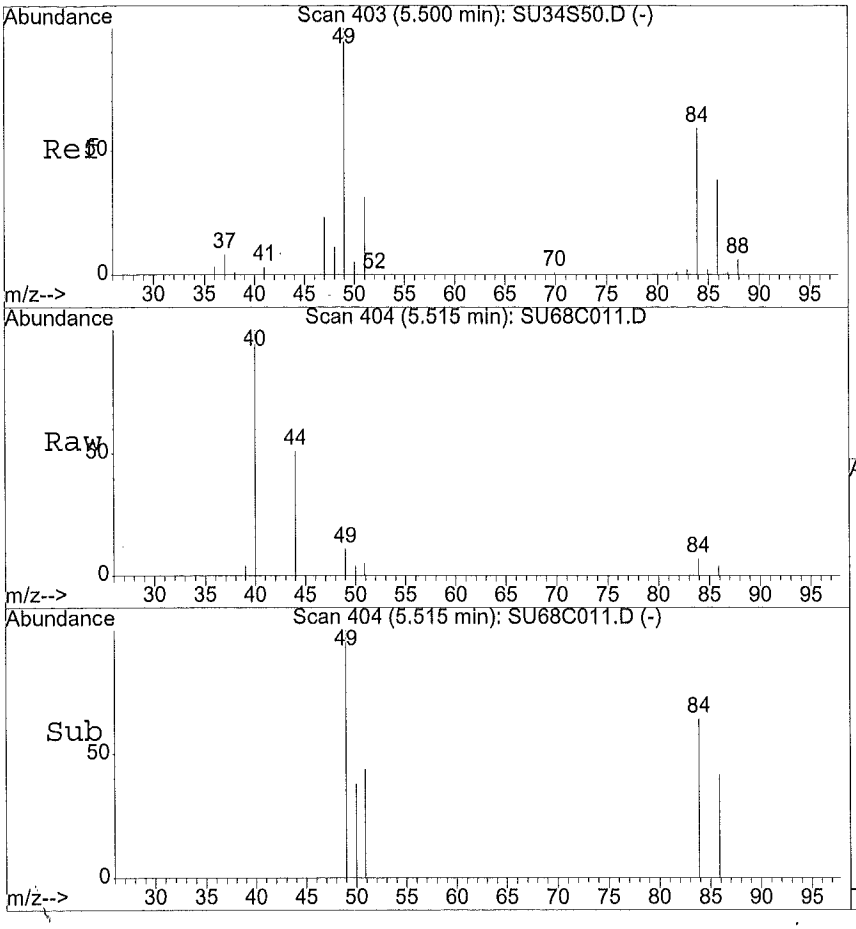
Quant Time: Jun 8 22:58 2015 Quant Results File: SCLPSS.RES

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	107043	4.64 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	2368	0.23 ug/Kg	79
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

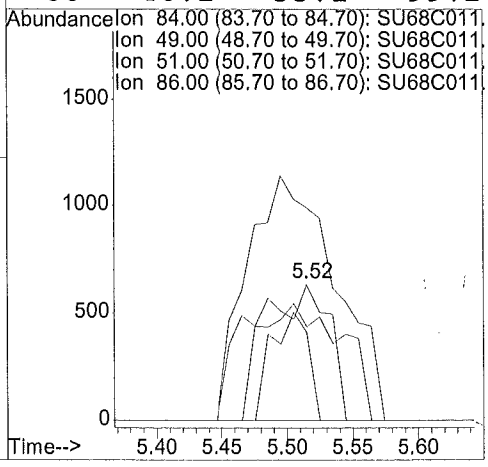
00119

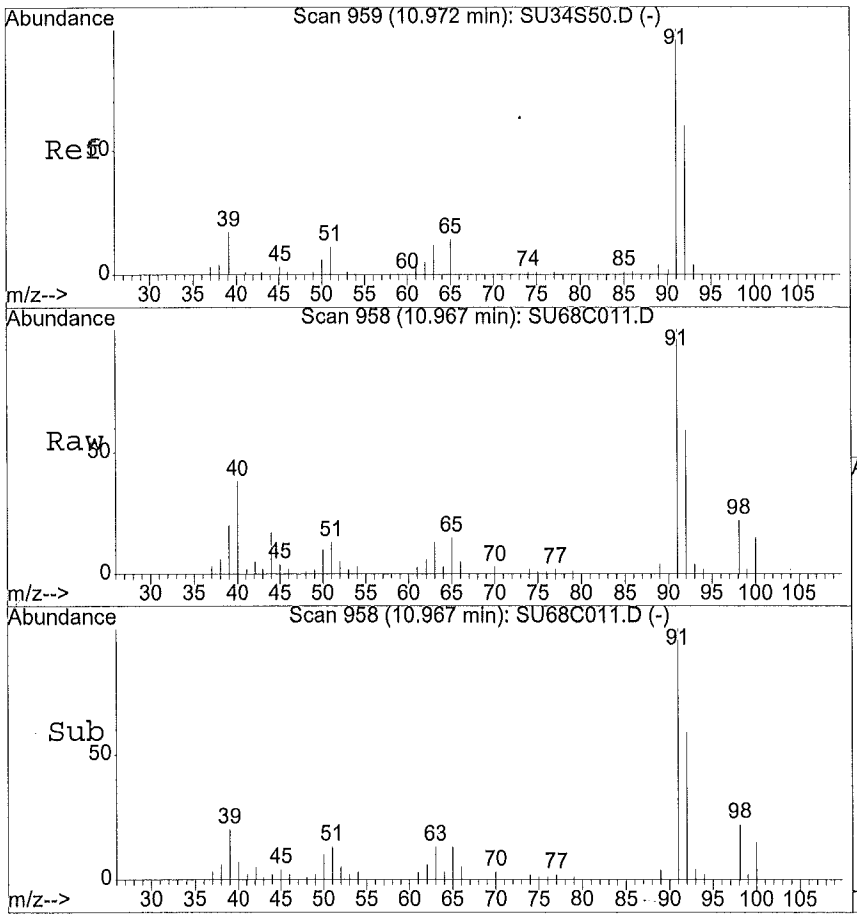


#16
Methylene chloride
Concen: 0.24 ug/Kg
RT: 5.52 min Scan# 404
Delta R.T. 0.02 min
Lab File: SU68C011.D
Acq: 06/08/2015 22:23

Tgt Ion:84 Resp: 2143

Ion	Ratio	Lower	Upper
84	100		
49	250.2	85.4	256.1
51	132.4	26.8	80.4#
86	46.2	33.1	99.2

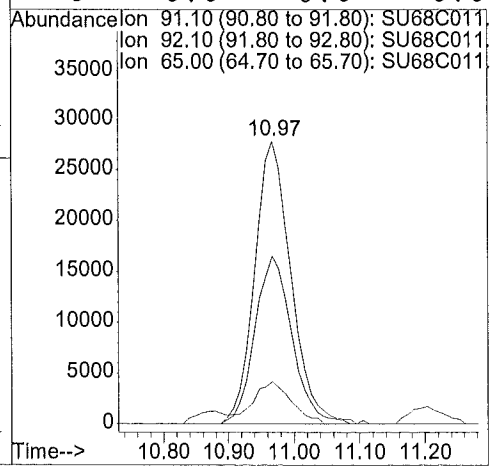


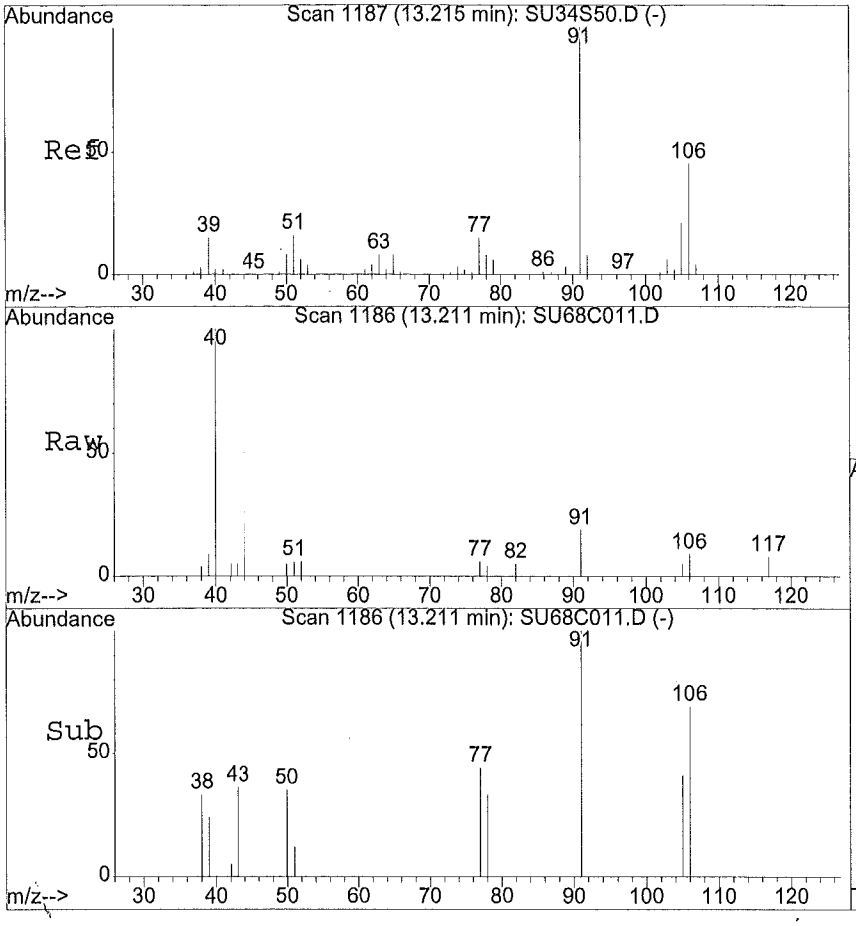


#48
Toluene
Concen: 4.64 ug/Kg
RT: 10.97 min Scan# 958
Delta R.T. -0.00 min
Lab File: SU68C011.D
Acq: 06/08/2015 22:23

Tgt Ion:91.1 Resp: 107043

Ion	Ratio	Lower	Upper
91	100		
92	60.5	48.2	72.2
65	20.0	11.7	17.5#
0	0.0	0.0	0.0

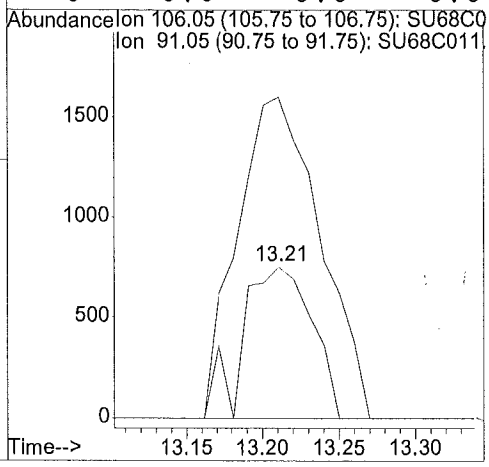




#56
m,p-Xylene
Concen: 0.23 ug/Kg
RT: 13.21 min Scan# 1186
Delta R.T. -0.00 min
Lab File: SU68C011.D
Acq: 06/08/2015 22:23

Tgt Ion:106.05 Resp: 2368

Ion	Ratio	Lower	Upper
106	100		
91	253.8	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.

F9M30

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542012

Sample wt/vol: 5.65 (g/mL) g Lab File ID: SU69C012

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 15. Date Analyzed: 06/08/2015

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	5.2	U
74-87-3	Chloromethane	5.2	U
75-01-4	Vinyl chloride	5.2	U
74-83-9	Bromomethane	5.2	U
75-00-3	Chloroethane	5.2	U
75-69-4	Trichlorofluoromethane	5.2	U
75-35-4	1,1-Dichloroethene	5.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.2	U
79-20-9	Methyl acetate	5.2	U
75-09-2	Methylene chloride	0.65	JB
156-60-5	trans-1,2-Dichloroethene	5.2	U
1634-04-4	Methyl tert-butyl ether	5.2	U
75-34-3	1,1-Dichloroethane	5.2	U
156-59-2	cis-1,2-Dichloroethene	5.2	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.2	U
67-66-3	Chloroform	5.2	U
71-55-6	1,1,1-Trichloroethane	5.2	U
110-82-7	Cyclohexane	5.2	U
56-23-5	Carbon tetrachloride	5.2	U
71-43-2	Benzene	5.2	U
107-06-2	1,2-Dichloroethane	5.2	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.

F9M30

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542012

Sample wt/vol: 5.65 (g/mL) g Lab File ID: SU69C012

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 15. Date Analyzed: 06/08/2015

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	5.2	U
108-87-2	Methylcyclohexane	5.2	U
78-87-5	1,2-Dichloropropane	5.2	U
75-27-4	Bromodichloromethane	5.2	U
10061-01-5	cis-1,3-Dichloropropene	5.2	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	14.	
10061-02-6	trans-1,3-Dichloropropene	5.2	U
79-00-5	1,1,2-Trichloroethane	5.2	U
127-18-4	Tetrachloroethene	5.2	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.2	U
106-93-4	1,2-Dibromoethane	5.2	U
108-90-7	Chlorobenzene	5.2	U
100-41-4	Ethylbenzene	5.2	U
95-47-6	o-Xylene	5.2	U
179601-23-1	m,p-Xylene	0.52	J
100-42-5	Styrene	5.2	U
75-25-2	Bromoform	5.2	U
98-82-8	Isopropylbenzene	5.2	U
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U
541-73-1	1,3-Dichlorobenzene	5.2	U
106-46-7	1,4-Dichlorobenzene	5.2	U
95-50-1	1,2-Dichlorobenzene	5.2	U
96-12-8	1,2-Dibromo-3-chloropropane	5.2	U
120-82-1	1,2,4-Trichlorobenzene	5.2	U
87-61-6	1,2,3-Trichlorobenzene	5.2	U

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

EPA SAMPLE NO.
F9M30

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542012
Sample wt/vol: 5.65 (g/mL) g Lab File ID: SU69C012
Level: (TRACE or LOW/MED) LOW Date Received: 06/03/2015
% Moisture: not dec. 15. Date Analyzed: 06/08/2015
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.

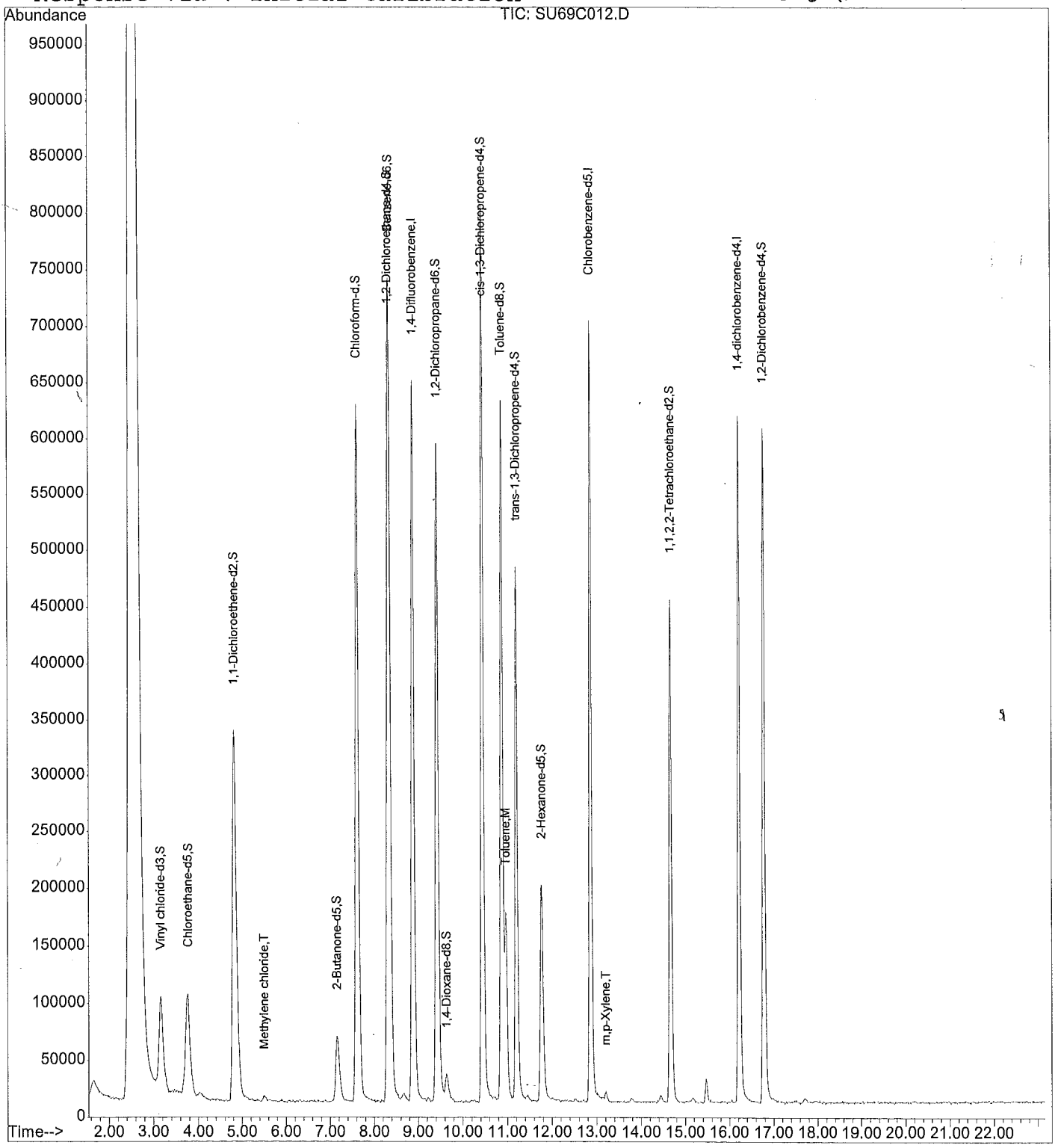
Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU69C012.D
Acq Time : 06/08/2015 22:53 Operator: CQC
Sample : 1515542012 F9M30 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 8 23:18 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

6.8.15



6.8.15

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU69C012.D
Acq Time : 06/08/2015 22:53 Operator: CQC
Sample : 1515542012 F9M30 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 8 23:18 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	991986	50.00 ug/Kg	75.14
30) Chlorobenzene-d5	12.86	117	648483	50.00 ug/Kg	60.58
62) 1,4-dichlorobenzene-d4	16.22	152	280820	50.00 ug/Kg	46.16#
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.16	65	340911	53.86 ug/Kg	107.71%
8) Chloroethane-d5	3.76	69	325171	53.99 ug/Kg	107.97%
11) 1,1-Dichloroethene-d2	4.82	63	798858	38.27 ug/Kg	76.55%
22) 2-Butanone-d5	7.15	46	181888	105.86 ug/Kg	105.86%
25) Chloroform-d	7.62	84	1082607	52.95 ug/Kg	105.90%
27) 1,2-Dichloroethane-d4	8.31	65	529521	56.66 ug/Kg	113.32%
29) 1,4-Dioxane-d8	9.63	96	33390	1154.62 ug/Kg	115.46%
35) Benzene-d6	8.35	84	1025632	64.31 ug/Kg	128.63%#
39) 1,2-Dichloropropane-d6	9.43	67	498521	63.47 ug/Kg	126.94%#
42) cis-1,3-Dichloropropene-d4	10.44	79	842309	64.01 ug/Kg	128.03%
44) trans-1,3-Dichloropropene-	11.20	79	474679	62.56 ug/Kg	125.12%#
49) Toluene-d8	10.87	98	776634	53.83 ug/Kg	107.66%
52) 2-Hexanone-d5	11.76	63	129701	128.97 ug/Kg	128.97%
61) 1,1,2,2-Tetrachloroethane-	14.67	84	464880	57.39 ug/Kg	114.78%
67) 1,2-Dichlorobenzene-d4	16.78	152	271031	50.35 ug/Kg	100.69%
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	4363	0.63 ug/Kg#	84
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

: 90147

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU69C012.D
Acq Time : 06/08/2015 22:53 Operator: CQC
Sample : 1515542012 F9M30 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

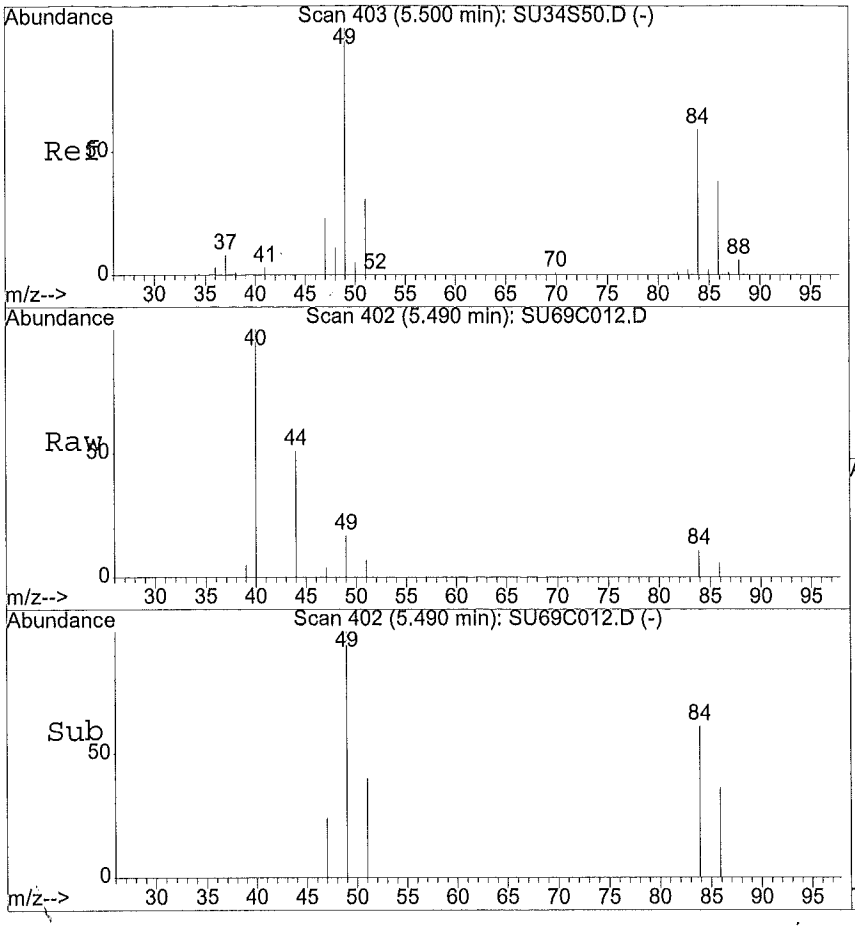
Quant Time: Jun 8 23:18 2015 Quant Results File: SCLPSS.RES

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	205027	13.13 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	13.22	106	3427	0.50 ug/Kg	79
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

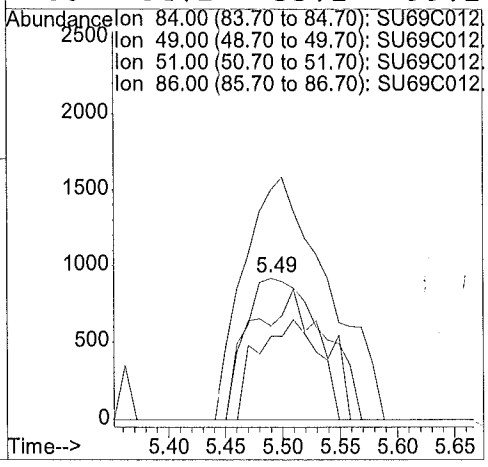
00119

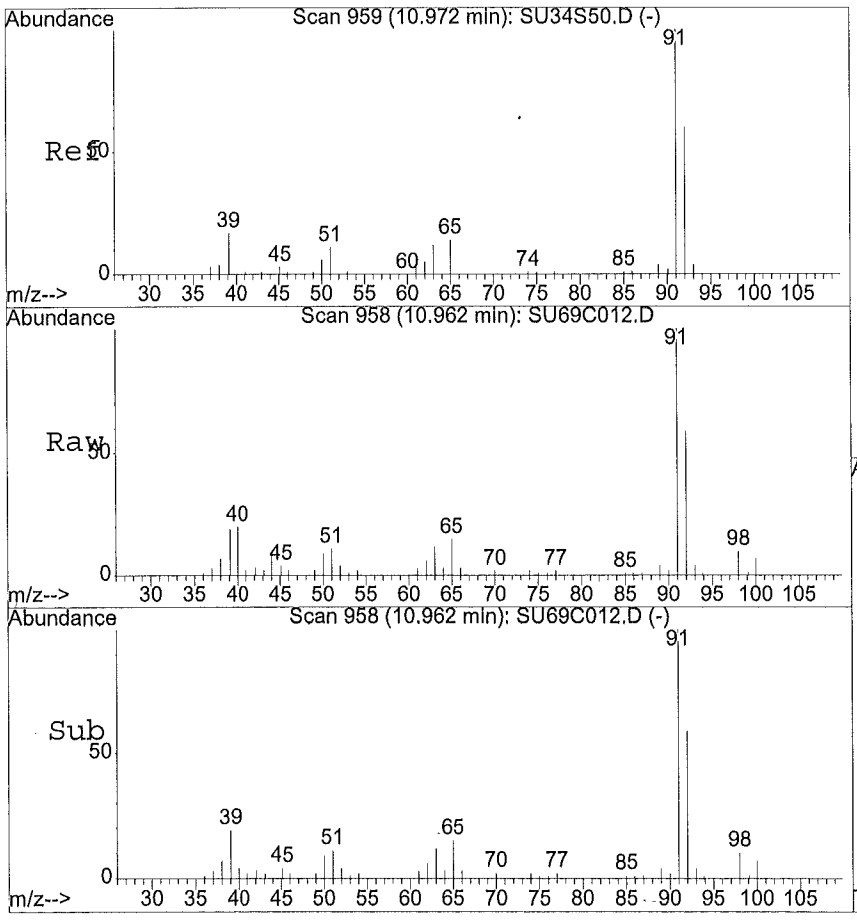


#16
Methylene chloride
Concen: 0.63 ug/Kg
RT: 5.49 min Scan# 402
Delta R.T. -0.01 min
Lab File: SU69C012.D
Acq: 06/08/2015 22:53

Tgt Ion:84 Resp: 4363

Ion	Ratio	Lower	Upper
84	100		
49	183.4	85.4	256.1
51	81.3	26.8	80.4#
86	54.2	33.1	99.2

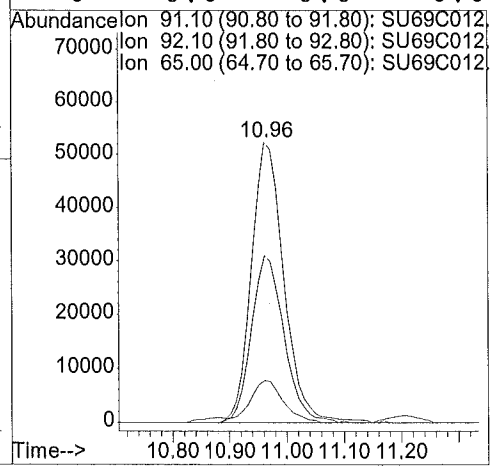


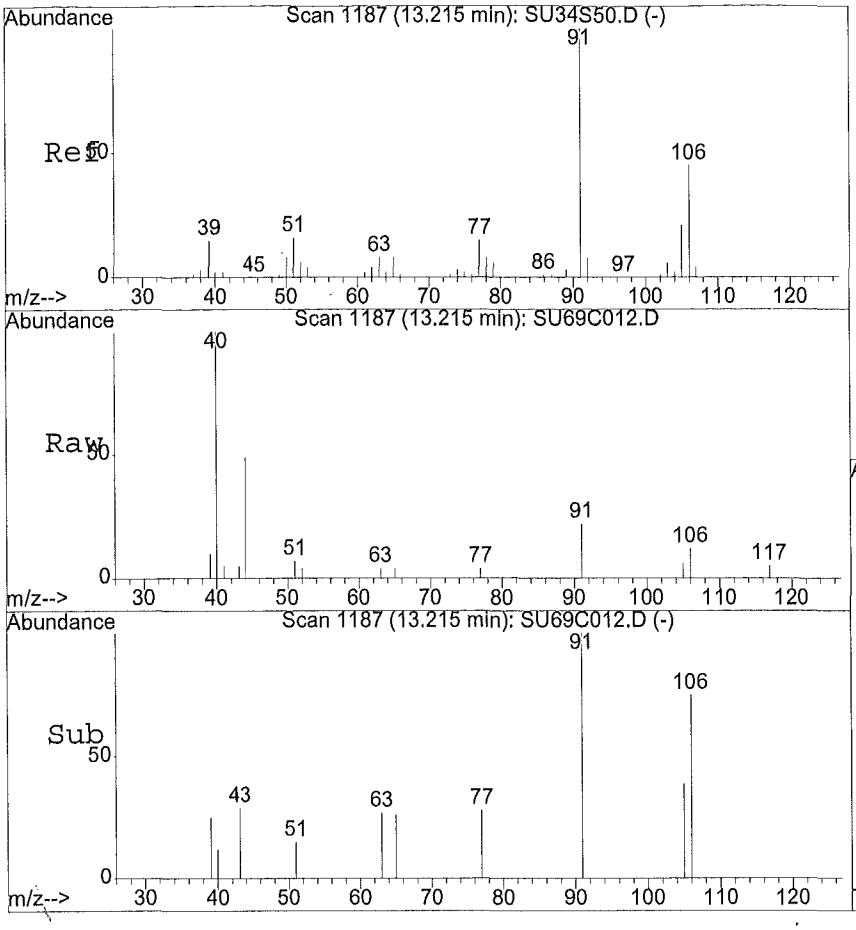


#48
Toluene
Concen: 13.13 ug/Kg
RT: 10.96 min Scan# 958
Delta R.T. -0.01 min
Lab File: SU69C012.D
Acq: 06/08/2015 22:53

Tgt Ion:91.1 Resp: 205027

Ion	Ratio	Lower	Upper
91	100		
92	59.3	48.2	72.2
65	16.7	11.7	17.5
0	0.0	0.0	0.0

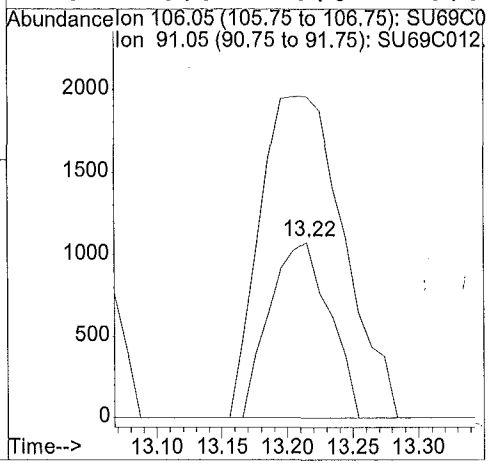




#56
m,p-Xylene
Concen: 0.50 ug/Kg
RT: 13.22 min Scan# 1187
Delta R.T. -0.00 min
Lab File: SU69C012.D
Acq: 06/08/2015 22:53

Tgt Ion:106.05 Resp: 3427

Ion	Ratio	Lower	Upper
106	100		
91	254.1	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.

F9M30RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542012RE

Sample wt/vol: 6.13 (g/mL) g Lab File ID: SU75R012

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 15. Date Analyzed: 06/09/2015

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	4.8	U
74-87-3	Chloromethane	4.8	U
75-01-4	Vinyl chloride	4.8	U
74-83-9	Bromomethane	4.8	U
75-00-3	Chloroethane	4.8	U
75-69-4	Trichlorofluoromethane	4.8	U
75-35-4	1,1-Dichloroethene	4.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.8	U
67-64-1	Acetone	8.9	J
75-15-0	Carbon disulfide	4.8	U
79-20-9	Methyl acetate	4.8	U
75-09-2	Methylene chloride	0.49	JB
156-60-5	trans-1,2-Dichloroethene	4.8	U
1634-04-4	Methyl tert-butyl ether	4.8	U
75-34-3	1,1-Dichloroethane	4.8	U
156-59-2	cis-1,2-Dichloroethene	4.8	U
78-93-3	2-Butanone	9.6	U
74-97-5	Bromochloromethane	4.8	U
67-66-3	Chloroform	4.8	U
71-55-6	1,1,1-Trichloroethane	4.8	U
110-82-7	Cyclohexane	4.8	U
56-23-5	Carbon tetrachloride	4.8	U
71-43-2	Benzene	4.8	U
107-06-2	1,2-Dichloroethane	4.8	U
123-91-1	1,4-Dioxane	96.	U

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

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

EPA SAMPLE NO.

F9M30RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542012RE

Sample wt/vol: 6.13 (g/mL) g Lab File ID: SU75R012

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 15. Date Analyzed: 06/09/2015

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	4.8	U
108-87-2	Methylcyclohexane	4.8	U
78-87-5	1,2-Dichloropropane	4.8	U
75-27-4	Bromodichloromethane	4.8	U
10061-01-5	cis-1,3-Dichloropropene	4.8	U
108-10-1	4-Methyl-2-Pentanone	9.6	U
108-88-3	Toluene	20.	
10061-02-6	trans-1,3-Dichloropropene	4.8	U
79-00-5	1,1,2-Trichloroethane	4.8	U
127-18-4	Tetrachloroethene	4.8	U
591-78-6	2-Hexanone	9.6	U
124-48-1	Dibromochloromethane	4.8	U
106-93-4	1,2-Dibromoethane	4.8	U
108-90-7	Chlorobenzene	4.8	U
100-41-4	Ethylbenzene	0.25	J
95-47-6	o-Xylene	0.31	J
179601-23-1	m,p-Xylene	0.93	J
100-42-5	Styrene	4.8	U
75-25-2	Bromoform	4.8	U
98-82-8	Isopropylbenzene	4.8	U
79-34-5	1,1,2,2-Tetrachloroethane	4.8	U
541-73-1	1,3-Dichlorobenzene	4.8	U
106-46-7	1,4-Dichlorobenzene	4.8	U
95-50-1	1,2-Dichlorobenzene	4.8	U
96-12-8	1,2-Dibromo-3-chloropropane	4.8	U
120-82-1	1,2,4-Trichlorobenzene	4.8	U
87-61-6	1,2,3-Trichlorobenzene	4.8	U

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

EPA SAMPLE NO.

F9M30RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542012RE

Sample wt/vol: 6.13 (g/mL) g Lab File ID: SU75R012

Level: (TRACE or LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 15. Date Analyzed: 06/09/2015

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		

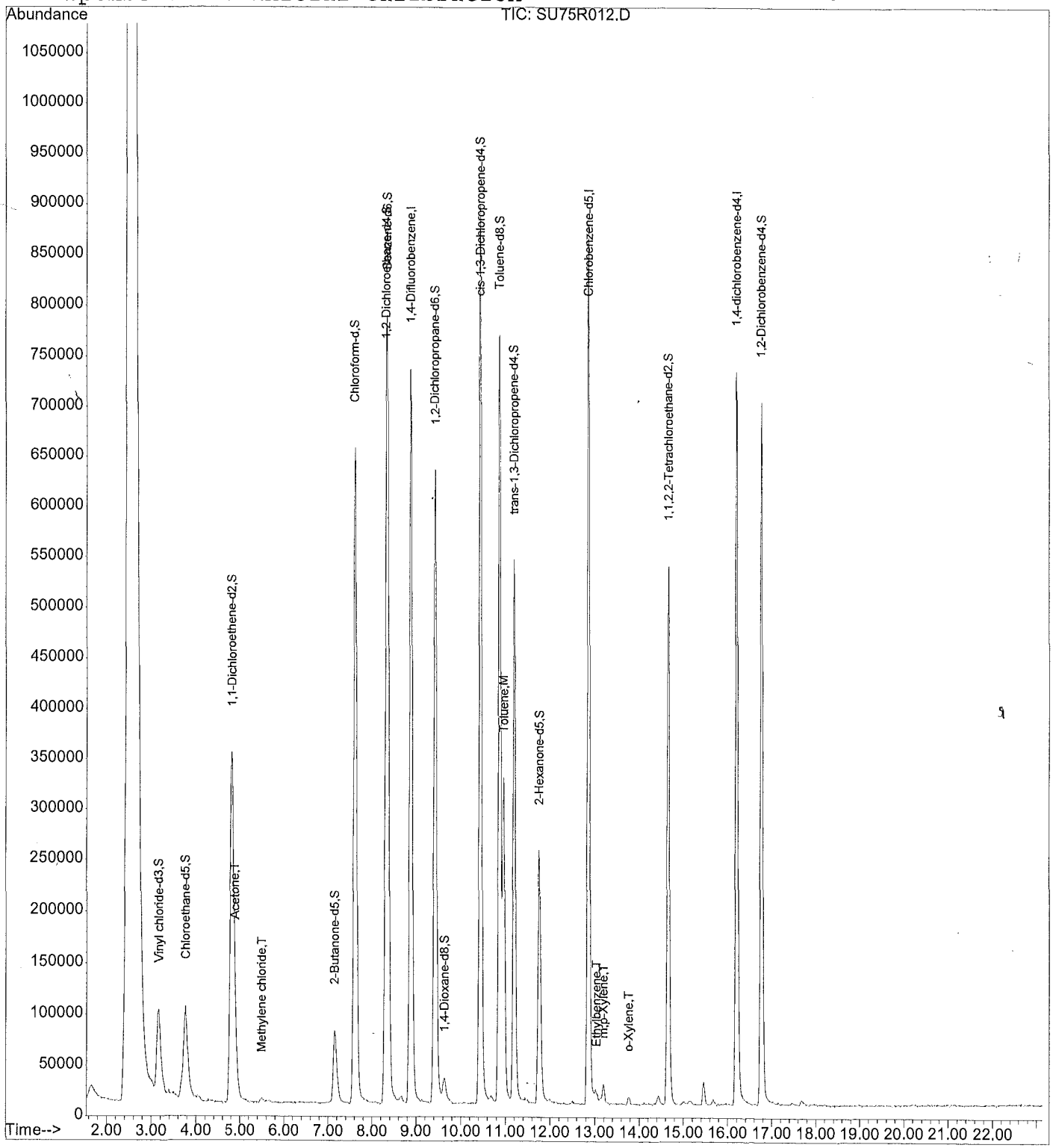
[1] EPA-designated Registry Number.

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU75R012.D
Acq Time : 06/09/2015 02:14 Operator: CQC
Sample : 1515542012RE F9M30RE Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 10 0:30 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



00124

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU75R012.D
Acq Time : 06/09/2015 02:14 Operator: CQC
Sample : 1515542012RE F9M30RE Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 10 0:30 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	8.88	114	1126172	50.00 ug/Kg	85.31
30) Chlorobenzene-d5	12.86	117	805497	50.00 ug/Kg	75.25
62) 1,4-dichlorobenzene-d4	16.20	152	340535	50.00 ug/Kg	55.97
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.15	65	342411	47.65 ug/Kg	95.29%
8) Chloroethane-d5	3.76	69	329519	48.19 ug/Kg	96.38%
11) 1,1-Dichloroethene-d2	4.81	63	865663	36.53 ug/Kg	73.07%
22) 2-Butanone-d5	7.14	46	237613	121.81 ug/Kg	121.81%
25) Chloroform-d	7.61	84	1137680	49.02 ug/Kg	98.03%
27) 1,2-Dichloroethane-d4	8.31	65	541637	51.05 ug/Kg	102.10%
29) 1,4-Dioxane-d8	9.63	96	36364	1107.63 ug/Kg	110.76%
35) Benzene-d6	8.34	84	1108108	55.94 ug/Kg	111.88%
39) 1,2-Dichloropropane-d6	9.42	67	533076	54.64 ug/Kg	109.28%
42) cis-1,3-Dichloropropene-d4	10.44	79	933560	57.12 ug/Kg	114.24%
44) trans-1,3-Dichloropropene-	11.19	79	536604	56.94 ug/Kg	113.87%
49) Toluene-d8	10.87	98	947096	52.85 ug/Kg	105.70%
52) 2-Hexanone-d5	11.76	63	169673	135.83 ug/Kg	135.83%#
61) 1,1,2,2-Tetrachloroethane-	14.66	84	549964	54.66 ug/Kg	109.32%
67) 1,2-Dichlorobenzene-d4	16.76	152	315566	48.34 ug/Kg	96.68%
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	19584	9.33 ug/Kg	84
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.50	84	4033	0.51 ug/Kg#	72
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\08JUN15S\SU75R012.D
Acq Time : 06/09/2015 02:14 Operator: CQC
Sample : 1515542012RE F9M30RE Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

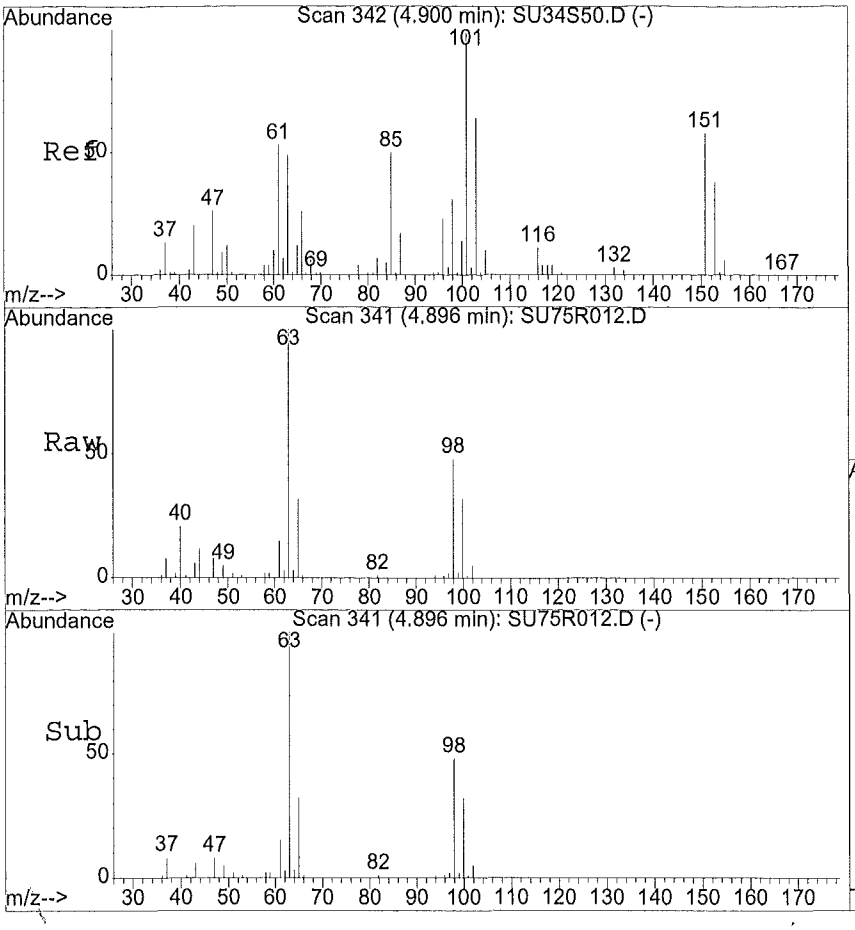
Quant Time: Jun 10 0:30 2015 Quant Results File: SCLPSS.RES

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	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	407143	20.99 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	13.04	91	6130	0.26 ug/Kg#	80
56)	m,p-Xylene	13.20	106	8283	0.97 ug/Kg	89
57)	o-Xylene	13.76	106	2906	0.33 ug/Kg	75
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

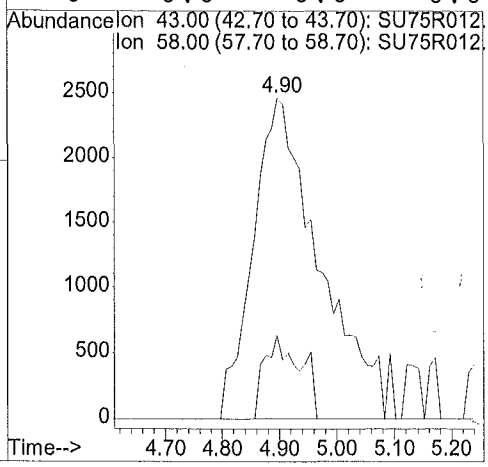
00126

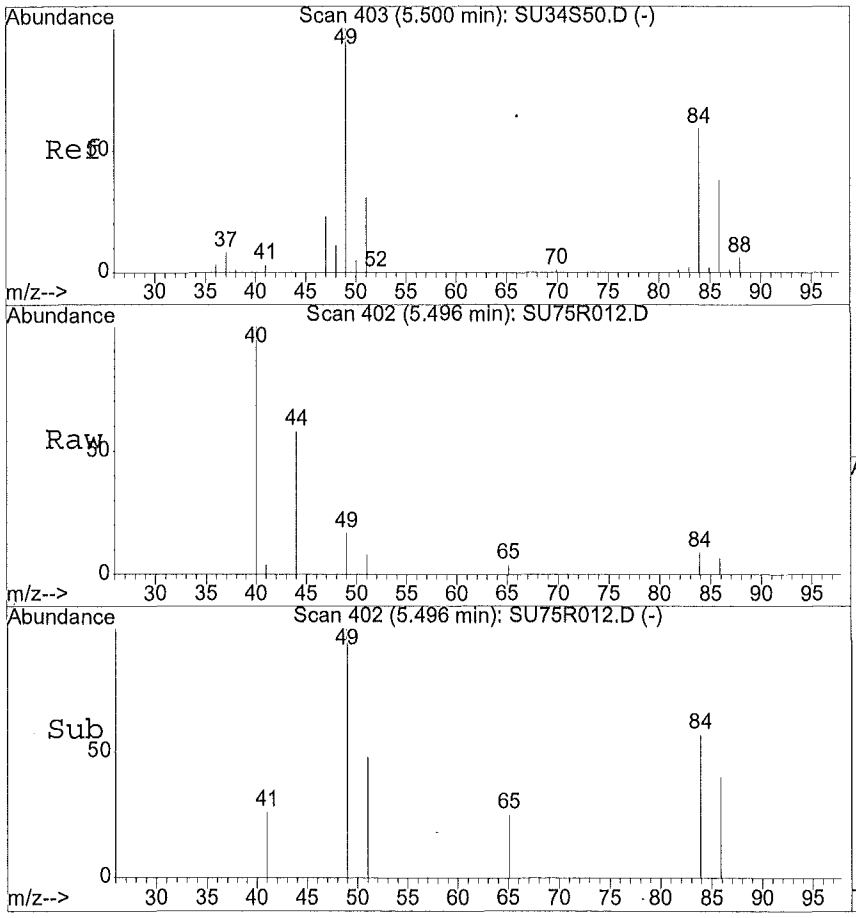


#13
Acetone
Concen: 9.33 ug/Kg
RT: 4.90 min Scan# 341
Delta R.T. 0.01 min
Lab File: SU75R012.D
Acq: 06/09/2015 02:14

Tgt Ion:43 Resp: 19584

Ion	Ratio	Lower	Upper
43	100		
58	13.9	10.9	32.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0

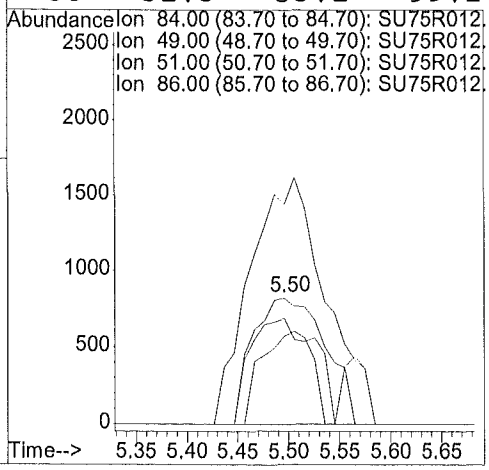


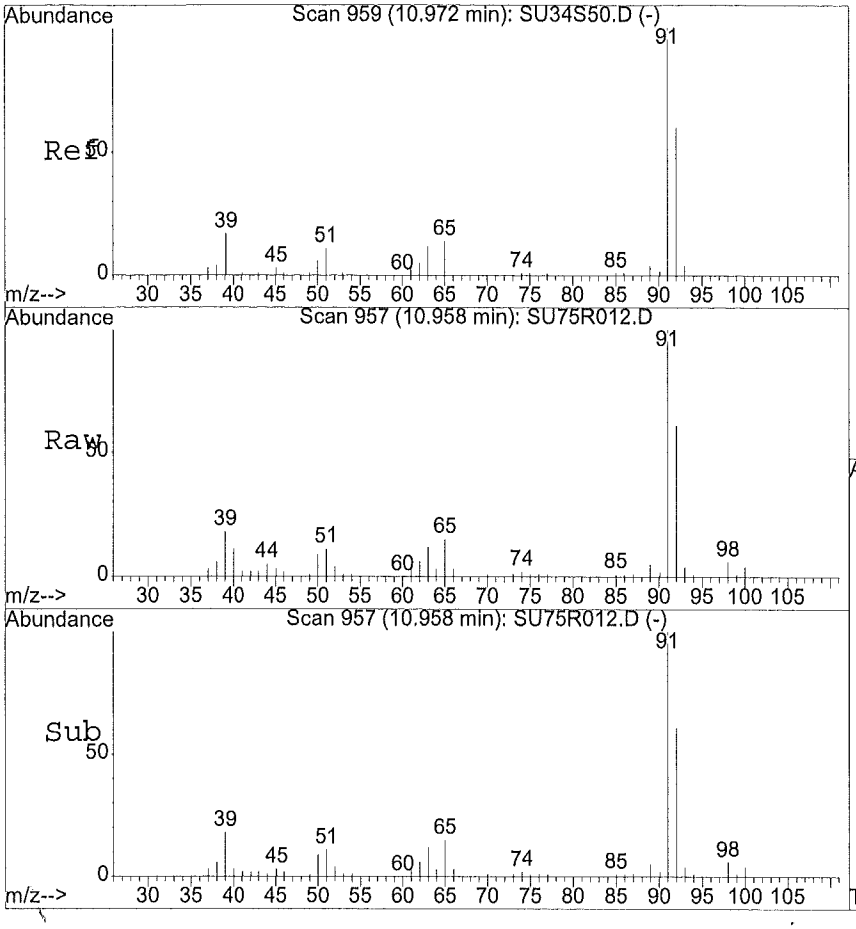


#16
Methylene chloride
Concen: 0.51 ug/Kg
RT: 5.50 min Scan# 402
Delta R.T. -0.00 min
Lab File: SU75R012.D
Acq: 06/09/2015 02:14

Tgt Ion:84 Resp: 4033

Ion	Ratio	Lower	Upper
84	100		
49	204.5	85.4	256.1
51	91.2	26.8	80.4#
86	51.3	33.1	99.2

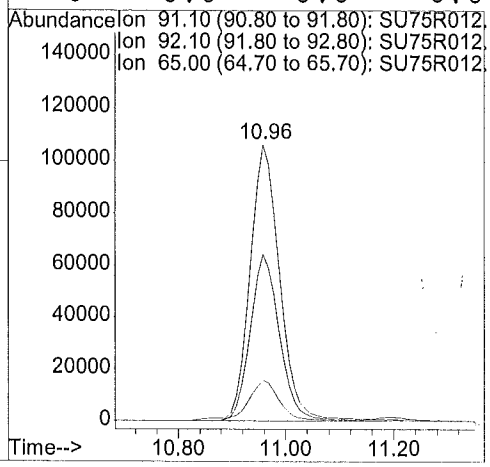


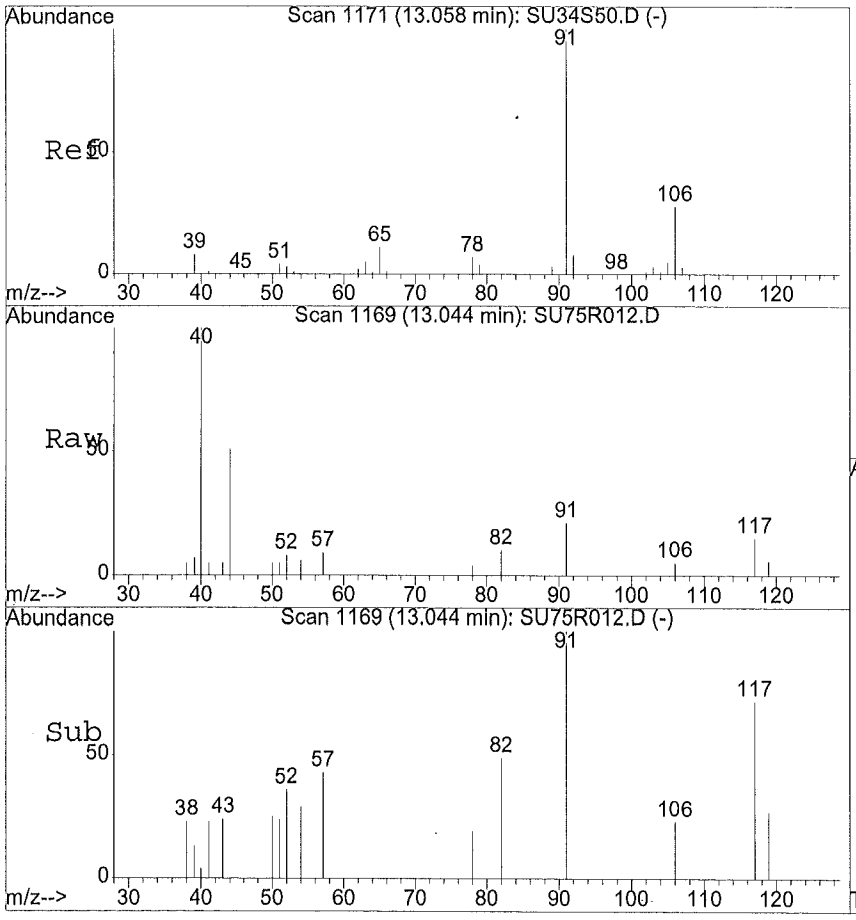


#48
Toluene
Concen: 20.99 ug/Kg
RT: 10.96 min Scan# 957
Delta R.T. -0.01 min
Lab File: SU75R012.D
Acq: 06/09/2015 02:14

Tgt Ion:91.1 Resp: 407143

Ion	Ratio	Lower	Upper
91	100		
92	59.7	48.2	72.2
65	15.8	11.7	17.5
0	0.0	0.0	0.0

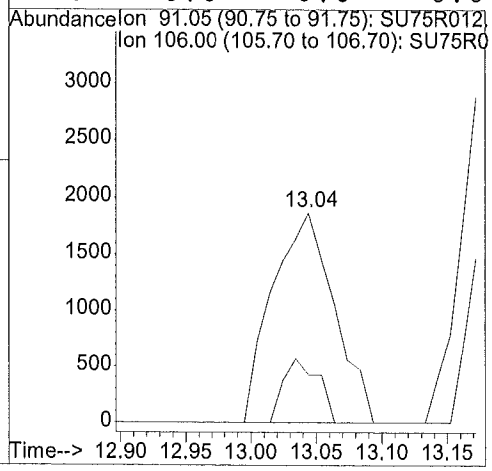


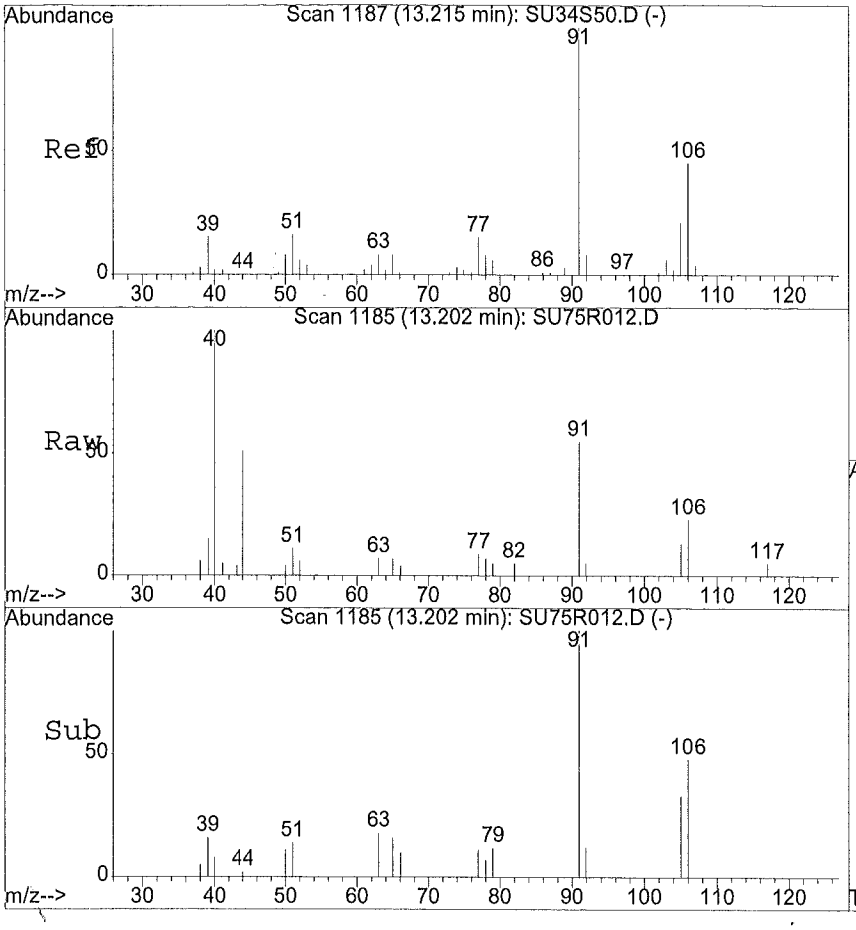


#55
Ethylbenzene
Concen: 0.26 ug/Kg
RT: 13.04 min Scan# 1169
Delta R.T. -0.01 min
Lab File: SU75R012.D
Acq: 06/09/2015 02:14

Tgt Ion:91.05 Resp: 6130

Ion	Ratio	Lower	Upper
91	100		
106	17.2	22.1	33.1#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

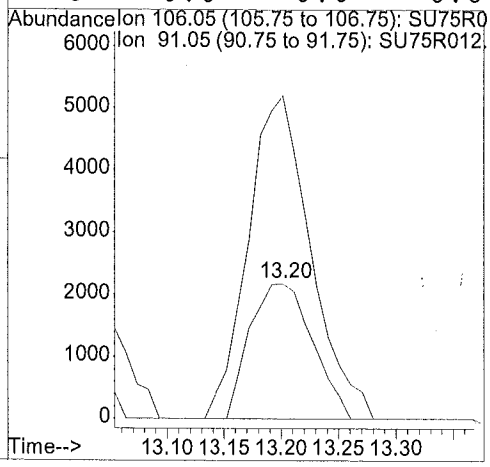


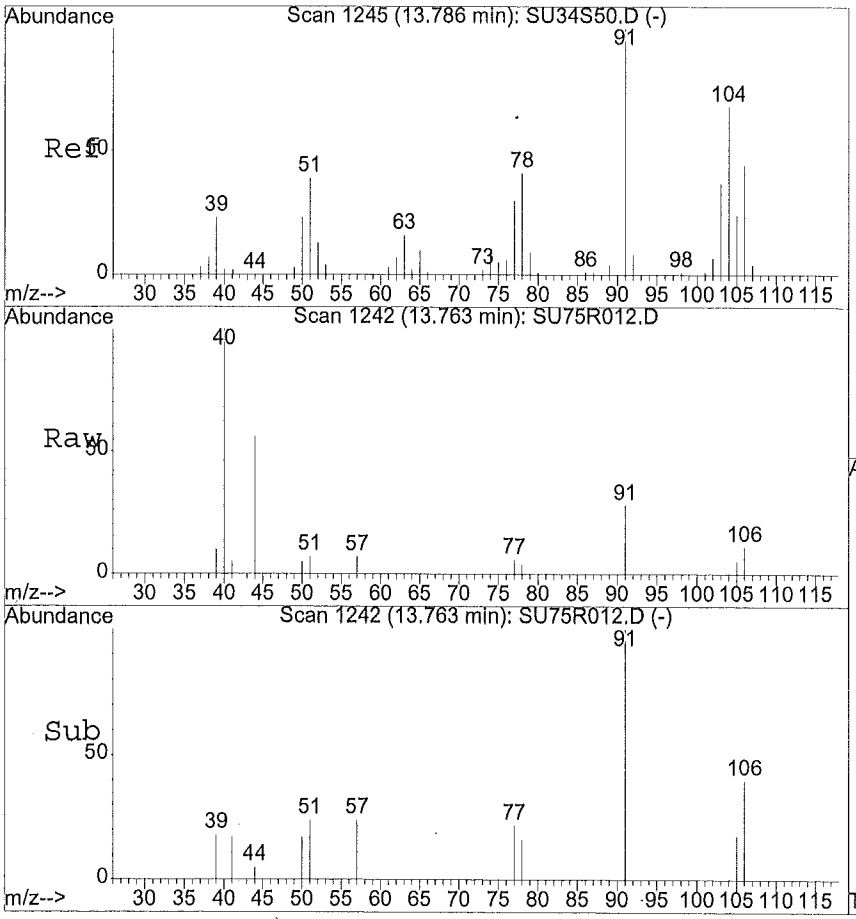


#56
m,p-Xylene
Concen: 0.97 ug/Kg
RT: 13.20 min Scan# 1185
Delta R.T. -0.01 min
Lab File: SU75R012.D
Acq: 06/09/2015 02:14

Tgt Ion:106.05 Resp: 8283

Ion	Ratio	Lower	Upper
106	100		
91	238.5	176.6	264.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

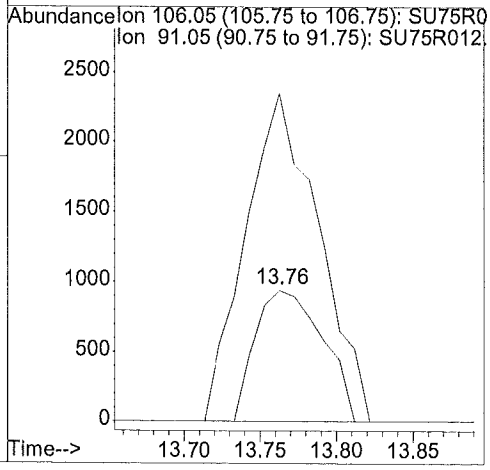




#57
o-Xylene
Concen: 0.33 ug/Kg
RT: 13.76 min Scan# 1242
Delta R.T. -0.02 min
Lab File: SU75R012.D
Acq: 06/09/2015 02:14

Tgt Ion:106.05 Resp: 2906

Ion	Ratio	Lower	Upper
106	100		
91	269.4	182.6	274.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0



00129

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

EPA SAMPLE NO.

F9M31

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542013

Sample wt/vol: 5.24 (g/mL) g Lab File ID: SU70C013

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 15. Date Analyzed: 06/08/2015

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	5.6	U
74-87-3	Chloromethane	5.6	U
75-01-4	Vinyl chloride	5.6	U
74-83-9	Bromomethane	5.6	U
75-00-3	Chloroethane	5.6	U
75-69-4	Trichlorofluoromethane	5.6	U
75-35-4	1,1-Dichloroethene	5.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.6	U
67-64-1	Acetone	11.	U
75-15-0	Carbon disulfide	5.6	U
79-20-9	Methyl acetate	5.6	U
75-09-2	Methylene chloride	0.42	JB
156-60-5	trans-1,2-Dichloroethene	5.6	U
1634-04-4	Methyl tert-butyl ether	5.6	U
75-34-3	1,1-Dichloroethane	5.6	U
156-59-2	cis-1,2-Dichloroethene	5.6	U
78-93-3	2-Butanone	11.	U
74-97-5	Bromochloromethane	5.6	U
67-66-3	Chloroform	5.6	U
71-55-6	1,1,1-Trichloroethane	5.6	U
110-82-7	Cyclohexane	5.6	U
56-23-5	Carbon tetrachloride	5.6	U
71-43-2	Benzene	5.6	U
107-06-2	1,2-Dichloroethane	5.6	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.

F9M31

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542013

Sample wt/vol: 5.24 (g/mL) g Lab File ID: SU70C013

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 15. Date Analyzed: 06/08/2015

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	5.6	U
108-87-2	Methylcyclohexane	5.6	U
78-87-5	1,2-Dichloropropane	5.6	U
75-27-4	Bromodichloromethane	5.6	U
10061-01-5	cis-1,3-Dichloropropene	5.6	U
108-10-1	4-Methyl-2-Pentanone	11.	U
108-88-3	Toluene	2.9	J
10061-02-6	trans-1,3-Dichloropropene	5.6	U
79-00-5	1,1,2-Trichloroethane	5.6	U
127-18-4	Tetrachloroethene	5.6	U
591-78-6	2-Hexanone	11.	U
124-48-1	Dibromochloromethane	5.6	U
106-93-4	1,2-Dibromoethane	5.6	U
108-90-7	Chlorobenzene	5.6	U
100-41-4	Ethylbenzene	5.6	U
95-47-6	o-Xylene	5.6	U
179601-23-1	m,p-Xylene	5.6	U
100-42-5	Styrene	5.6	U
75-25-2	Bromoform	5.6	U
98-82-8	Isopropylbenzene	5.6	U
79-34-5	1,1,2,2-Tetrachloroethane	5.6	U
541-73-1	1,3-Dichlorobenzene	5.6	U
106-46-7	1,4-Dichlorobenzene	5.6	U
95-50-1	1,2-Dichlorobenzene	5.6	U
96-12-8	1,2-Dibromo-3-chloropropane	5.6	U
120-82-1	1,2,4-Trichlorobenzene	5.6	U
87-61-6	1,2,3-Trichlorobenzene	5.6	U

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

EPA SAMPLE NO.
F9M31

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542013
Sample wt/vol: 5.24 (g/mL) g Lab File ID: SU70C013
Level: (TRACE or LOW/MED) LOW Date Received: 06/03/2015
% Moisture: not dec. 15. Date Analyzed: 06/08/2015
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.

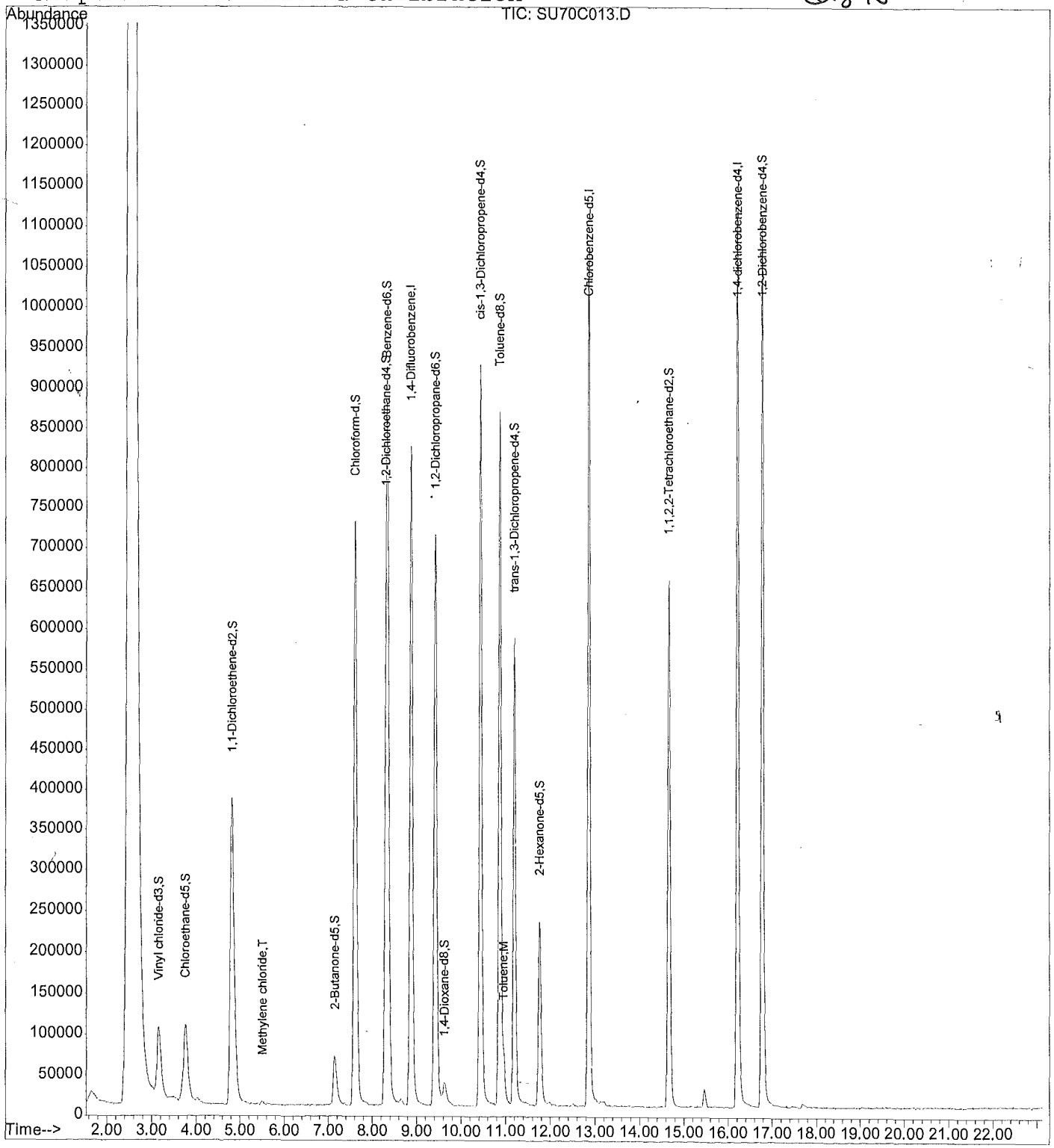
Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU70C013.D
Acq Time : 06/08/2015 23:23 Operator: CQC
Sample : 1515542013 F9M31 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 9 0:00 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

6.8.15



08133

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU70C013.D
Acq Time : 06/08/2015 23:23 Operator: CQC
Sample : 1515542013 F9M31 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 9 0:00 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	8.88	114	1253692	50.00 ug/Kg	94.97
30) Chlorobenzene-d5	12.86	117	978911	50.00 ug/Kg	91.45
62) 1,4-dichlorobenzene-d4	16.22	152	512516	50.00 ug/Kg	84.24
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.16	65	361325	45.16 ug/Kg	90.33%
8) Chloroethane-d5	3.76	69	355762	46.74 ug/Kg	93.47%
11) 1,1-Dichloroethene-d2	4.82	63	923415	35.01 ug/Kg	70.01%
22) 2-Butanone-d5	7.15	46	206291	95.00 ug/Kg	95.00%
25) Chloroform-d	7.62	84	1274374	49.32 ug/Kg	98.64%
27) 1,2-Dichloroethane-d4	8.30	65	626607	53.05 ug/Kg	106.11%
29) 1,4-Dioxane-d8	9.63	96	42307	1157.58 ug/Kg	115.76%
35) Benzene-d6	8.34	84	1223672	50.83 ug/Kg	101.66%
39) 1,2-Dichloropropane-d6	9.43	67	604981	51.03 ug/Kg	102.05%
42) cis-1,3-Dichloropropene-d4	10.44	79	968704	48.77 ug/Kg	97.54%
44) trans-1,3-Dichloropropene-	11.20	79	579260	50.58 ug/Kg	101.15%
49) Toluene-d8	10.87	98	1067554	49.02 ug/Kg	98.04%
52) 2-Hexanone-d5	11.76	63	155544	102.46 ug/Kg	102.46%
61) 1,1,2,2-Tetrachloroethane-	14.66	84	684689	55.99 ug/Kg	111.99%
67) 1,2-Dichlorobenzene-d4	16.78	152	491103	49.99 ug/Kg	99.97%
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	3277	0.37 ug/Kg#	80
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

: 02134

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU70C013.D
Acq Time : 06/08/2015 23:23 Operator: CQC
Sample : 1515542013 F9M31 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

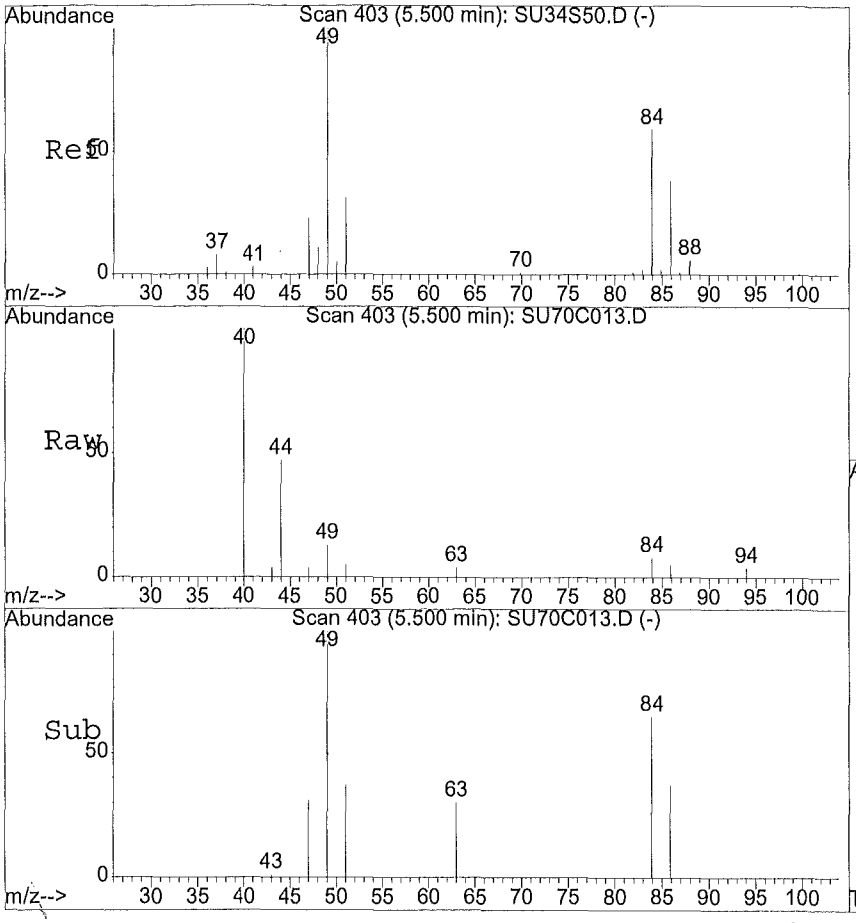
Quant Time: Jun 9 0:00 2015 Quant Results File: SCLPSS.RES

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	10.96	91	60388	2.56 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

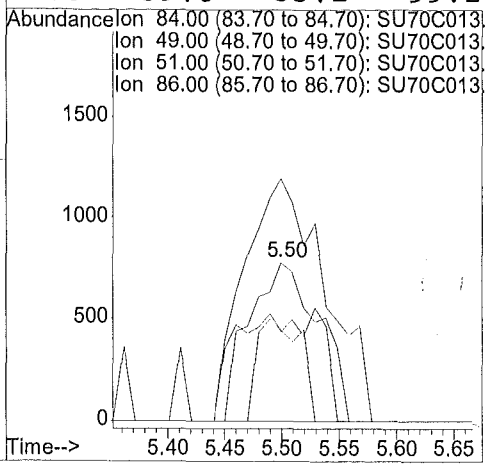
09135

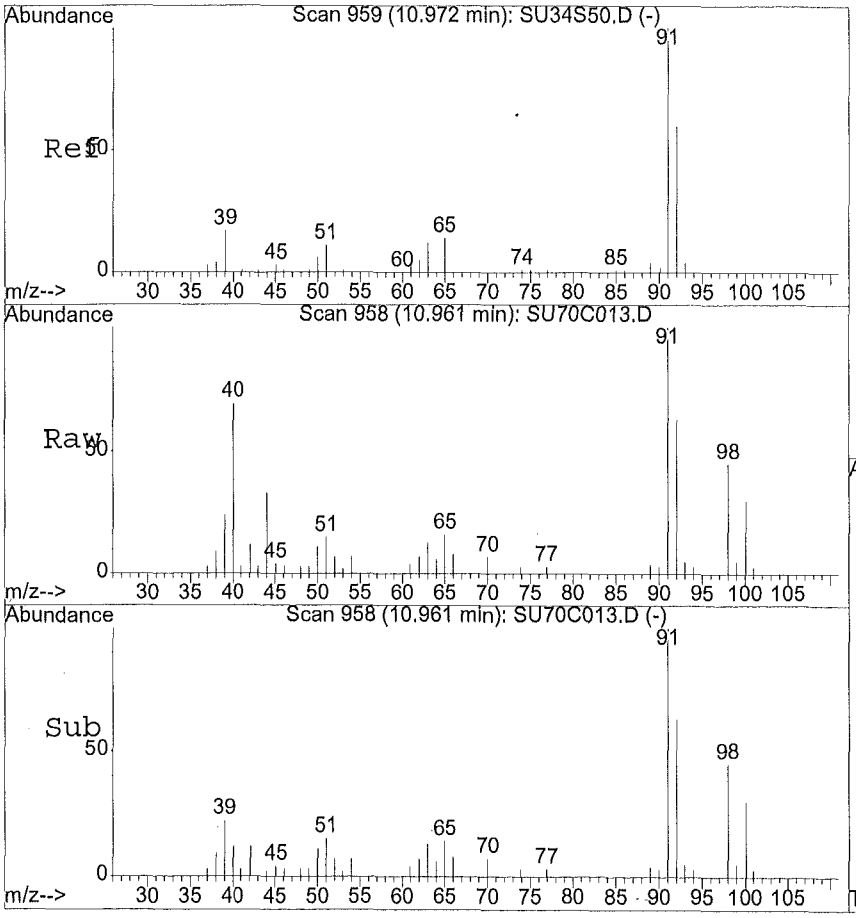


#16
Methylene chloride
Concen: 0.37 ug/Kg
RT: 5.50 min Scan# 403
Delta R.T. -0.00 min
Lab File: SU70C013.D
Acq: 06/08/2015 23:23

Tgt Ion:84 Resp: 3277

Ion	Ratio	Lower	Upper
84	100		
49	178.7	85.4	256.1
51	89.3	26.8	80.4#
86	39.8	33.1	99.2

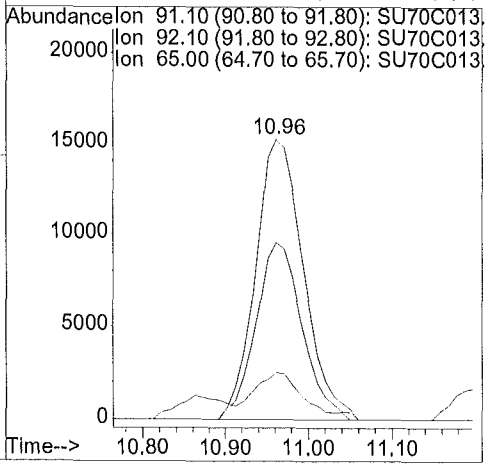




#48
Toluene
Concen: 2.56 ug/Kg
RT: 10.96 min Scan# 958
Delta R.T. -0.01 min
Lab File: SU70C013.D
Acq: 06/08/2015 23:23

Tgt Ion:91.1 Resp: 60388

Ion	Ratio	Lower	Upper
91	100		
92	61.2	48.2	72.2
65	17.0	11.7	17.5
0	0.0	0.0	0.0



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

EPA SAMPLE NO.

F9M32

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542014

Sample wt/vol: 5.86 (g/mL) g Lab File ID: SU71C014

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 14. Date Analyzed: 06/08/2015

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.	
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	0.36	JB
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.

F9M32

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542014

Sample wt/vol: 5.86 (g/mL) g Lab File ID: SU71C014

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 14. Date Analyzed: 06/08/2015

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	2.1	J
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	0.27	J
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.
F9M32

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542014
Sample wt/vol: 5.86 (g/mL) g Lab File ID: SU71C014
Level: (TRACE or LOW/MED) LOW Date Received: 06/03/2015
% Moisture: not dec. 14. Date Analyzed: 06/08/2015
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		

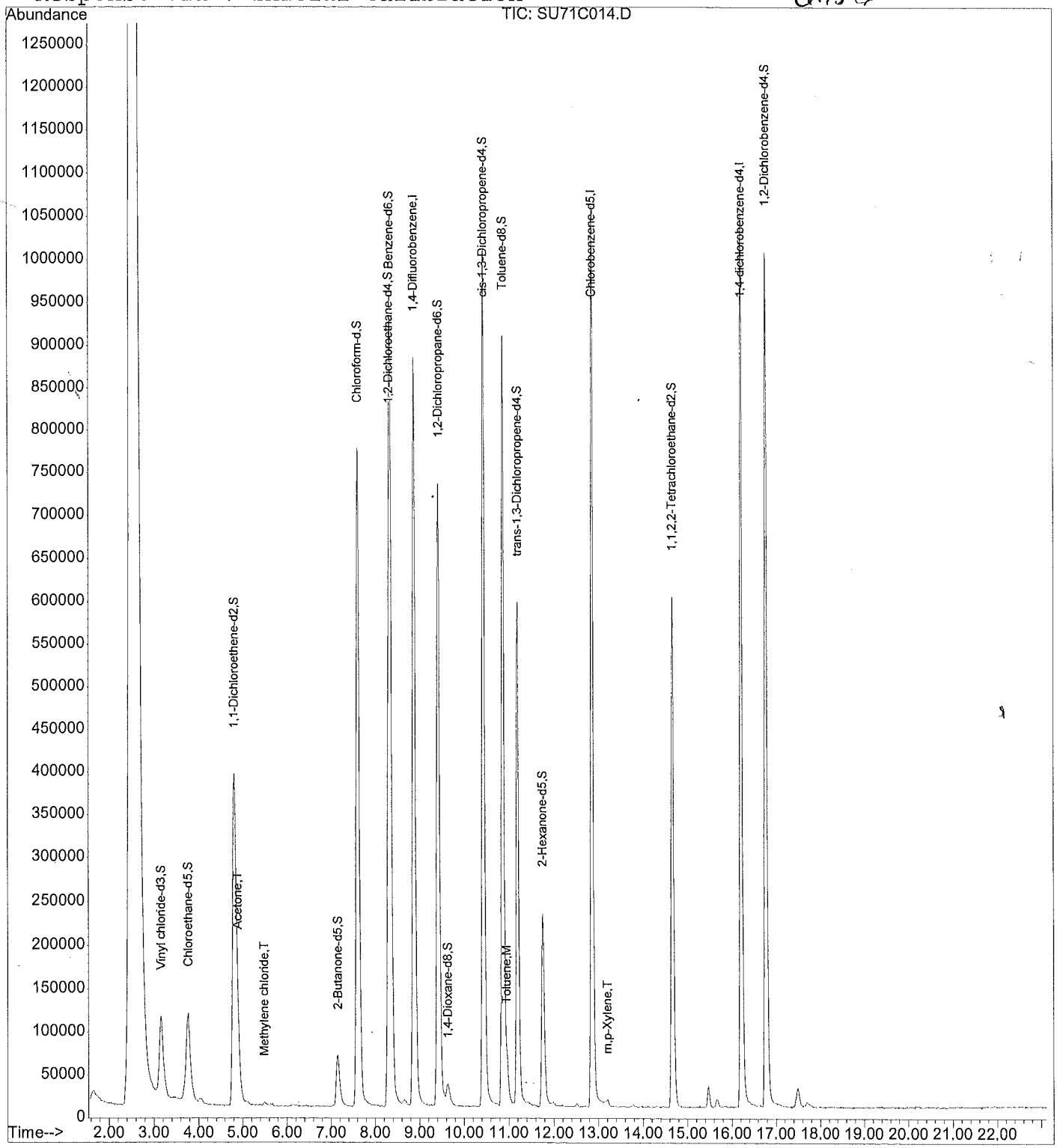
[1] EPA-designated Registry Number.

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU71C014.D
Acq Time : 06/08/2015 23:54 Operator: CQC
Sample : 1515542014 F9M32 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 10 0:27 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



Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU71C014.D
Acq Time : 06/08/2015 23:54 Operator: CQC
Sample : 1515542014 F9M32 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 10 0:27 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	1339014	50.00	ug/Kg	101.43
30) Chlorobenzene-d5	12.86	117	974146	50.00	ug/Kg	91.01
62) 1,4-dichlorobenzene-d4	16.22	152	479387	50.00	ug/Kg	78.79
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	3.16	65	389301	45.56	ug/Kg	91.12%
8) Chloroethane-d5	3.76	69	377257	46.40	ug/Kg	92.80%
11) 1,1-Dichloroethene-d2	4.81	63	997835	35.42	ug/Kg	70.84%
22) 2-Butanone-d5	7.15	46	208991	90.11	ug/Kg	90.11%
25) Chloroform-d	7.61	84	1349549	48.90	ug/Kg	97.80%
27) 1,2-Dichloroethane-d4	8.31	65	632425	50.13	ug/Kg	100.27%
29) 1,4-Dioxane-d8	9.63	96	36531	935.85	ug/Kg	93.58%
35) Benzene-d6	8.34	84	1309508	54.66	ug/Kg	109.33%
39) 1,2-Dichloropropane-d6	9.43	67	625437	53.01	ug/Kg	106.02%
42) cis-1,3-Dichloropropene-d4	10.44	79	1055981	53.42	ug/Kg	106.85%
44) trans-1,3-Dichloropropene-	11.20	79	595181	52.22	ug/Kg	104.44%
49) Toluene-d8	10.87	98	1122311	51.79	ug/Kg	103.57%
52) 2-Hexanone-d5	11.76	63	157983	104.58	ug/Kg	104.58%
61) 1,1,2,2-Tetrachloroethane-	14.66	84	617077	50.71	ug/Kg	101.42%
67) 1,2-Dichlorobenzene-d4	16.78	152	448110	48.76	ug/Kg	97.52%
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	4.90	43	25522	10.23	ug/Kg	82
14) Carbon disulfide	0.00	76		Not Detected		
15) Methyl acetate	0.00	43		Not Detected		
16) Methylene chloride	5.49	84	3350	0.36	ug/Kg#	64
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

: 00144

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU71C014.D
Acq Time : 06/08/2015 23:54 Operator: CQC
Sample : 1515542014 F9M32 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

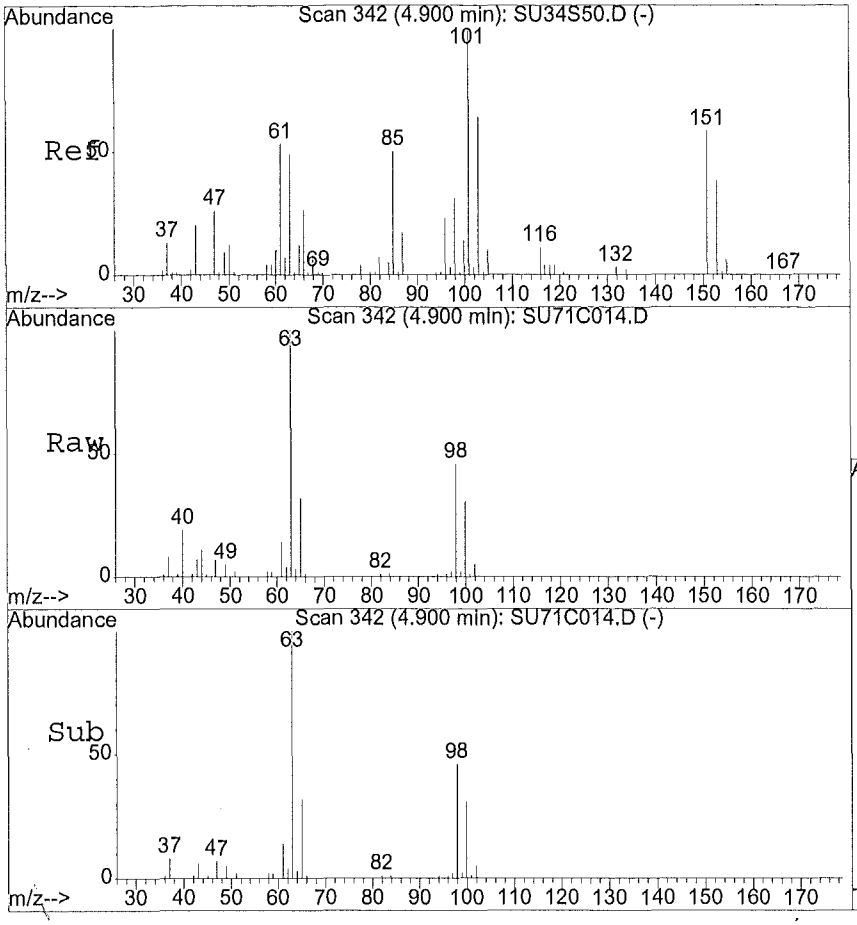
Quant Time: Jun 10 0:27 2015 Quant Results File: SCLPSS.RES

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	49203	2.10 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	2794	0.27 ug/Kg#	58
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

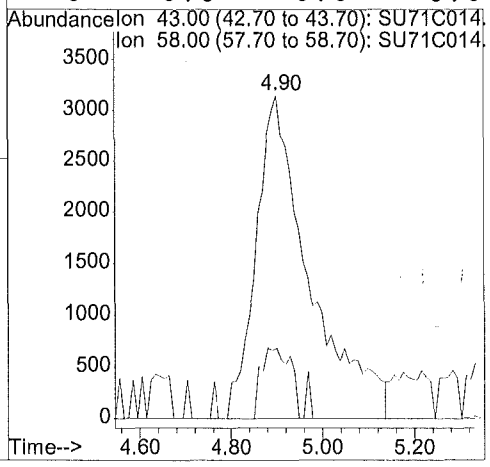
00142

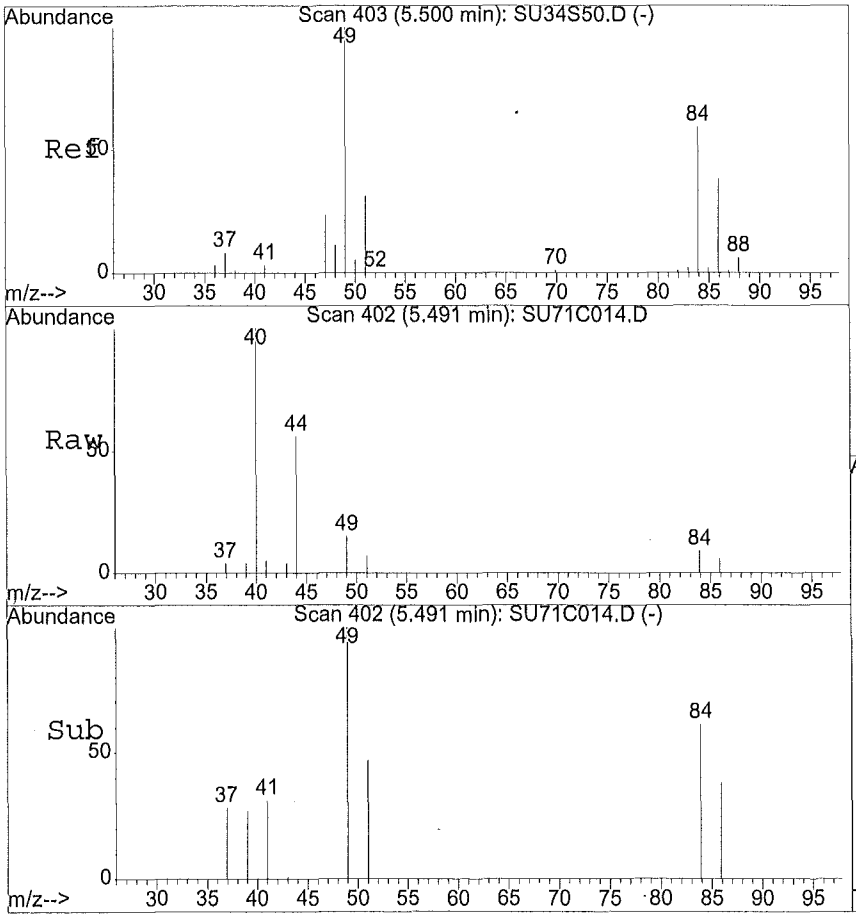


#13
Acetone
Concen: 10.23 ug/Kg
RT: 4.90 min Scan# 342
Delta R.T. 0.01 min
Lab File: SU71C014.D
Acq: 06/08/2015 23:54

Tgt Ion:43 Resp: 25522

Ion	Ratio	Lower	Upper
43	100		
58	13.0	10.9	32.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0

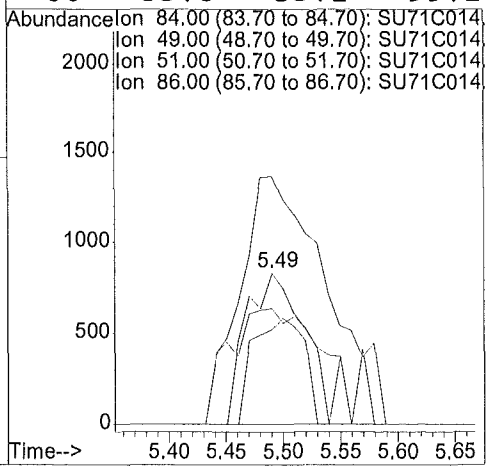


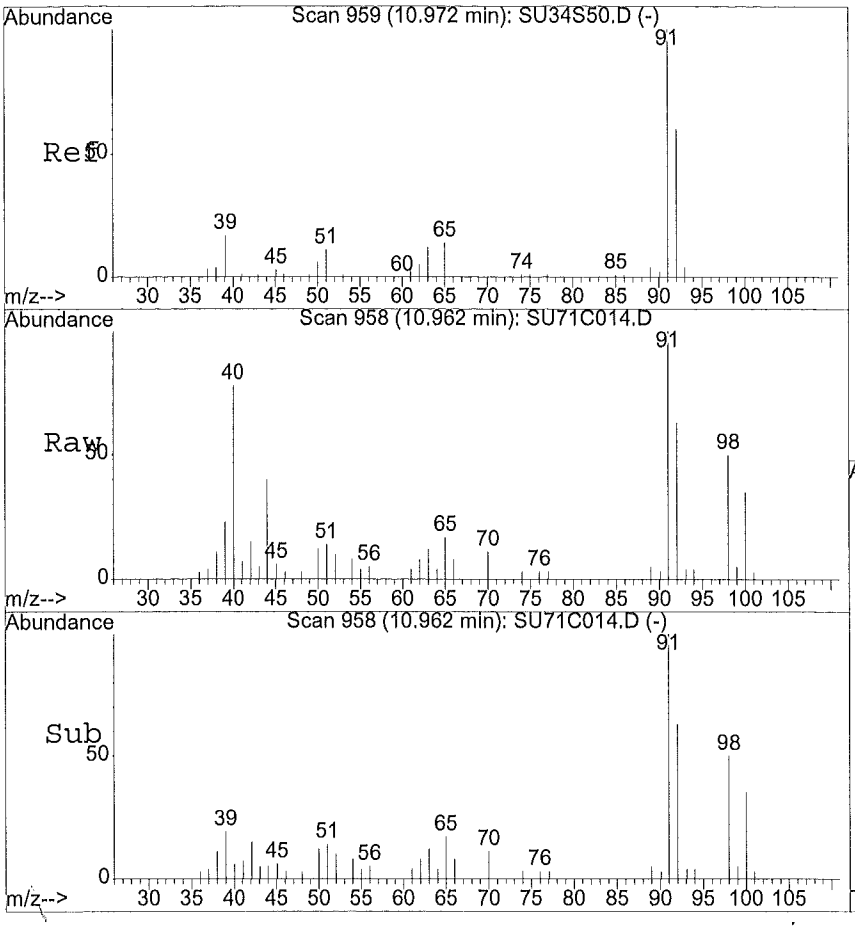


#16
Methylene chloride
Concen: 0.36 ug/Kg
RT: 5.49 min Scan# 402
Delta R.T. -0.01 min
Lab File: SU71C014.D
Acq: 06/08/2015 23:54

Tgt Ion:84 Resp: 3350

Ion	Ratio	Lower	Upper
84	100		
49	215.0	85.4	256.1
51	105.3	26.8	80.4#
86	53.8	33.1	99.2

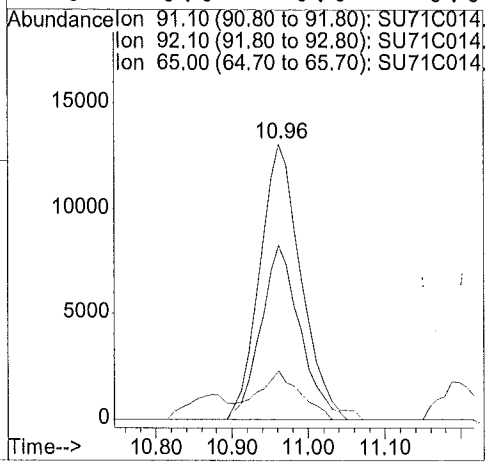


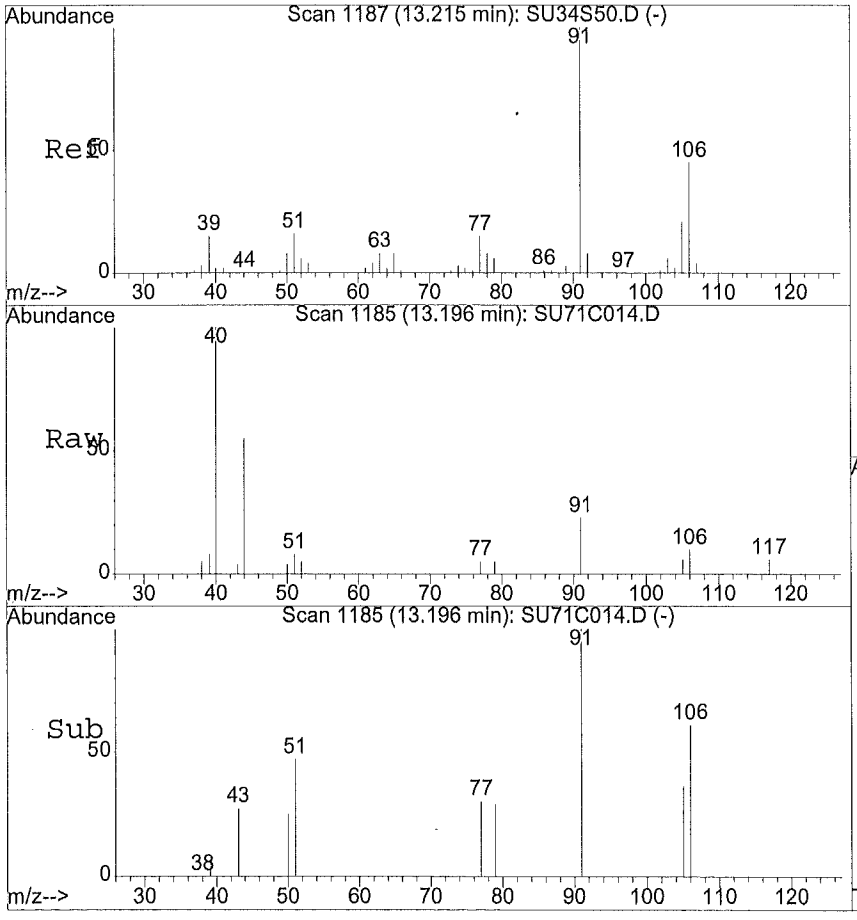


#48
Toluene
Concen: 2.10 ug/Kg
RT: 10.96 min Scan# 958
Delta R.T. -0.01 min
Lab File: SU71C014.D
Acq: 06/08/2015 23:54

Tgt Ion:91.1 Resp: 49203

Ion	Ratio	Lower	Upper
91	100		
92	59.6	48.2	72.2
65	18.0	11.7	17.5#
0	0.0	0.0	0.0

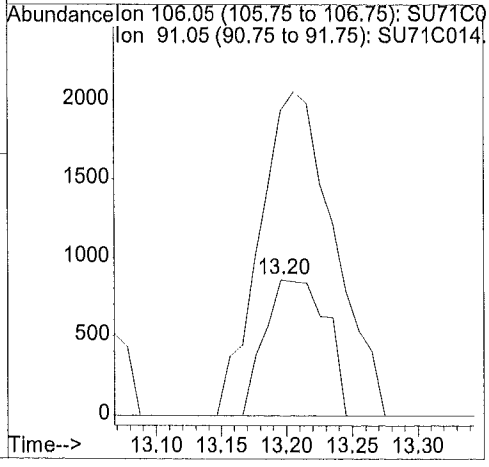




#56
m,p-Xylene
Concen: 0.27 ug/Kg
RT: 13.20 min Scan# 1185
Delta R.T. -0.02 min
Lab File: SU71C014.D
Acq: 06/08/2015 23:54

Tgt Ion:106.05 Resp: 2794

Ion	Ratio	Lower	Upper
106	100		
91	289.1	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.

F9M33

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542015

Sample wt/vol: 5.52 (g/mL) g Lab File ID: SU72C015

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 12. Date Analyzed: 06/09/2015

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	5.1	U
74-87-3	Chloromethane	5.1	U
75-01-4	Vinyl chloride	5.1	U
74-83-9	Bromomethane	5.1	U
75-00-3	Chloroethane	5.1	U
75-69-4	Trichlorofluoromethane	5.1	U
75-35-4	1,1-Dichloroethene	5.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.1	U
67-64-1	Acetone	9.9	J
75-15-0	Carbon disulfide	5.1	U
79-20-9	Methyl acetate	5.1	U
75-09-2	Methylene chloride	0.32	JB
156-60-5	trans-1,2-Dichloroethene	5.1	U
1634-04-4	Methyl tert-butyl ether	5.1	U
75-34-3	1,1-Dichloroethane	5.1	U
156-59-2	cis-1,2-Dichloroethene	5.1	U
78-93-3	2-Butanone	12.	
74-97-5	Bromochloromethane	5.1	U
67-66-3	Chloroform	5.1	U
71-55-6	1,1,1-Trichloroethane	5.1	U
110-82-7	Cyclohexane	5.1	U
56-23-5	Carbon tetrachloride	5.1	U
71-43-2	Benzene	5.1	U
107-06-2	1,2-Dichloroethane	5.1	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.

F9M33

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542015

Sample wt/vol: 5.52 (g/mL) g Lab File ID: SU72C015

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 12. Date Analyzed: 06/09/2015

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	5.1	U
108-87-2	Methylcyclohexane	5.1	U
78-87-5	1,2-Dichloropropane	5.1	U
75-27-4	Bromodichloromethane	5.1	U
10061-01-5	cis-1,3-Dichloropropene	5.1	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	2.9	J
10061-02-6	trans-1,3-Dichloropropene	5.1	U
79-00-5	1,1,2-Trichloroethane	5.1	U
127-18-4	Tetrachloroethene	5.1	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.1	U
106-93-4	1,2-Dibromoethane	5.1	U
108-90-7	Chlorobenzene	5.1	U
100-41-4	Ethylbenzene	5.1	U
95-47-6	o-Xylene	5.1	U
179601-23-1	m,p-Xylene	0.25	J
100-42-5	Styrene	5.1	U
75-25-2	Bromoform	5.1	U
98-82-8	Isopropylbenzene	5.1	U
79-34-5	1,1,2,2-Tetrachloroethane	5.1	U
541-73-1	1,3-Dichlorobenzene	5.1	U
106-46-7	1,4-Dichlorobenzene	5.1	U
95-50-1	1,2-Dichlorobenzene	5.1	U
96-12-8	1,2-Dibromo-3-chloropropane	5.1	U
120-82-1	1,2,4-Trichlorobenzene	5.1	U
87-61-6	1,2,3-Trichlorobenzene	5.1	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9M33

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542015

Sample wt/vol: 5.52 (g/mL) g Lab File ID: SU72C015

Level: (TRACE or LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 12. Date Analyzed: 06/09/2015

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.

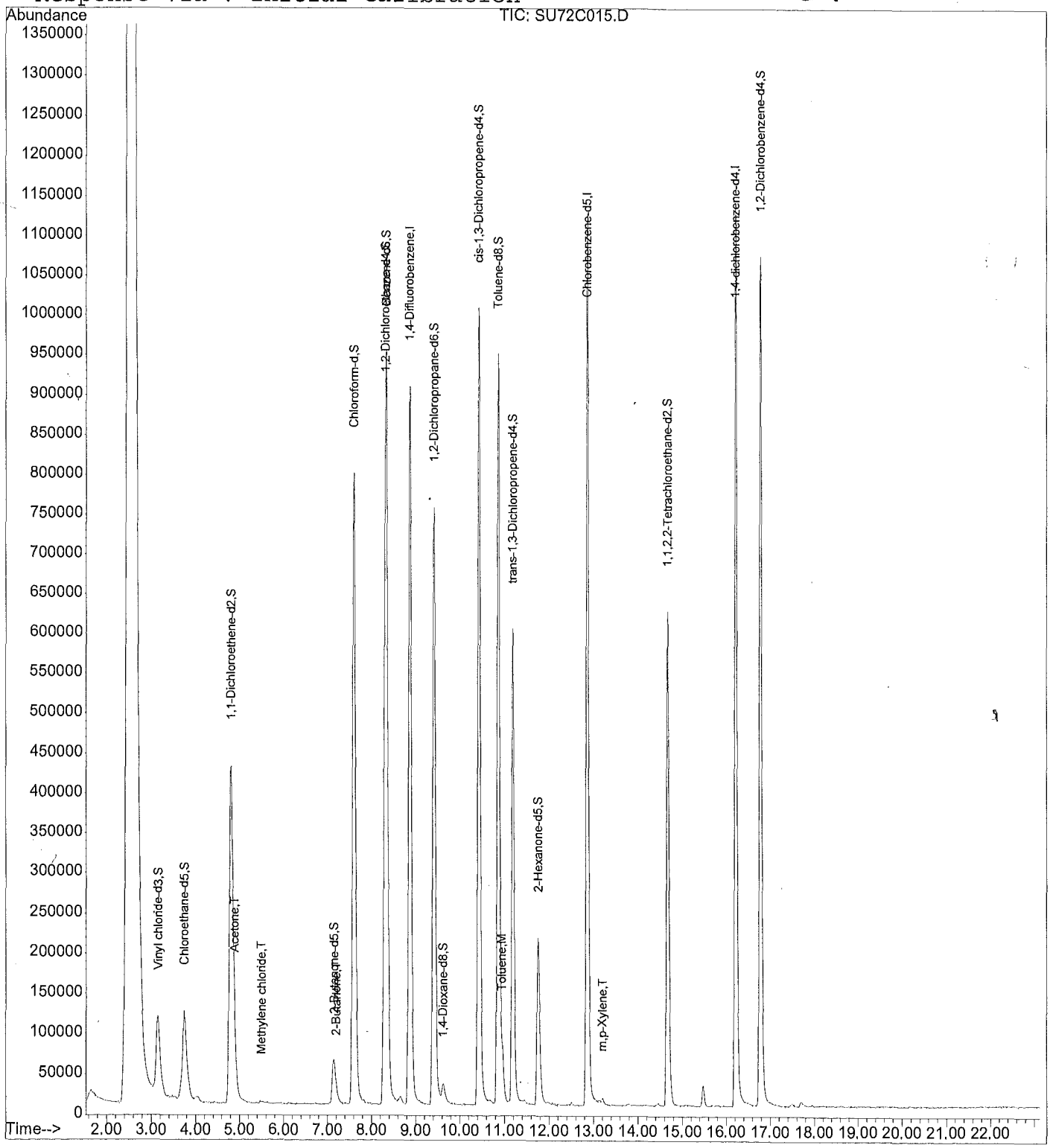
Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU72C015.D
Acq Time : 06/09/2015 00:24 Operator: CQC
Sample : 1515542015 F9M33 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 10 0:28 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

6.10.15



: 08148

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU72C015.D
Acq Time : 06/09/2015 00:24 Operator: CQC
Sample : 1515542015 F9M33 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 10 0:28 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	8.88	114	1397527	50.00 ug/Kg	105.87
30) Chlorobenzene-d5	12.86	117	1039537	50.00 ug/Kg	97.12
62) 1,4-dichlorobenzene-d4	16.23	152	518445	50.00 ug/Kg	85.21
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.16	65	409363	45.90 ug/Kg	91.81%
8) Chloroethane-d5	3.75	69	392784	46.29 ug/Kg	92.58%
11) 1,1-Dichloroethene-d2	4.81	63	1048234	35.65 ug/Kg	71.30%
22) 2-Butanone-d5	7.14	46	179877	74.31 ug/Kg	74.31%
25) Chloroform-d	7.61	84	1380869	47.94 ug/Kg	95.88%
27) 1,2-Dichloroethane-d4	8.30	65	633922	48.15 ug/Kg	96.30%
29) 1,4-Dioxane-d8	9.63	96	36511	896.17 ug/Kg	89.62%
35) Benzene-d6	8.34	84	1360412	53.22 ug/Kg	106.43%
39) 1,2-Dichloropropane-d6	9.42	67	640506	50.87 ug/Kg	101.74%
42) cis-1,3-Dichloropropene-d4	10.43	79	1073985	50.92 ug/Kg	101.83%
44) trans-1,3-Dichloropropene-	11.19	79	603093	49.59 ug/Kg	99.17%
49) Toluene-d8	10.86	98	1186233	51.29 ug/Kg	102.59%
52) 2-Hexanone-d5	11.76	63	144201	89.45 ug/Kg	89.45%
61) 1,1,2,2-Tetrachloroethane-	14.67	84	633788	48.81 ug/Kg	97.62%
67) 1,2-Dichlorobenzene-d4	16.79	152	485160	48.82 ug/Kg	97.63%
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	25065	9.62 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	3061	0.31 ug/Kg#	80
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	7.21	43	34365	11.35 ug/Kg#	70
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

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

00149

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU72C015.D
Acq Time : 06/09/2015 00:24 Operator: CQC
Sample : 1515542015 F9M33 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

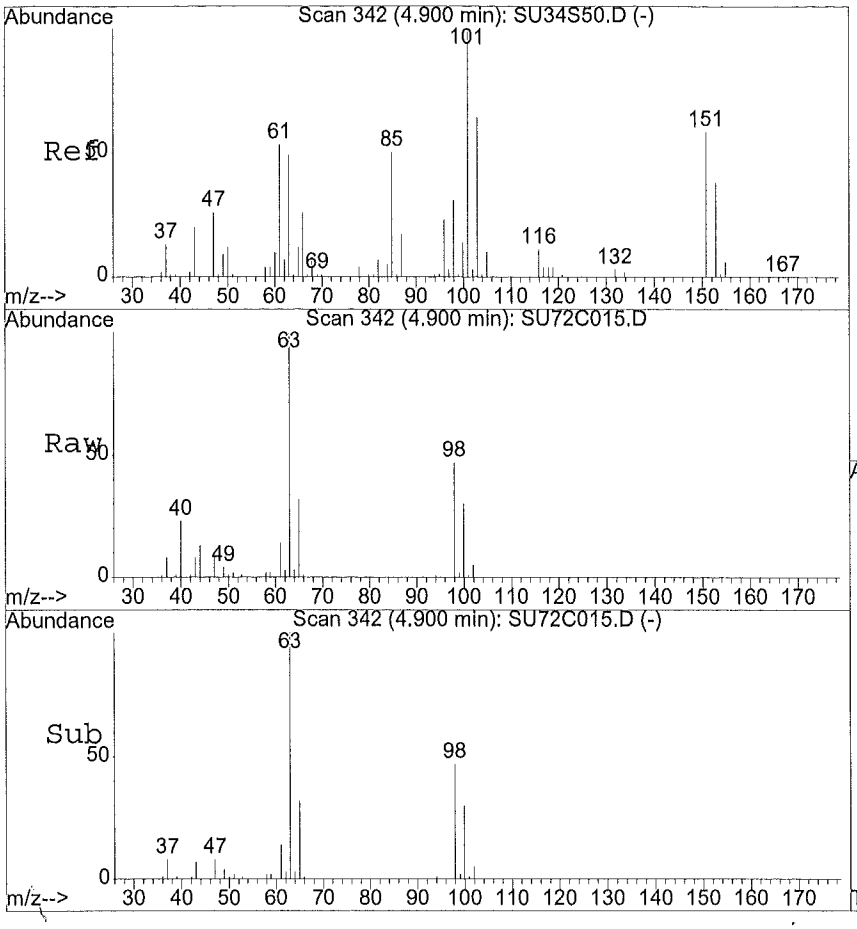
Quant Time: Jun 10 0:28 2015 Quant Results File: SCLPSS.RES

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	10.95	91	71596	2.86 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	13.21	106	2703	0.25 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

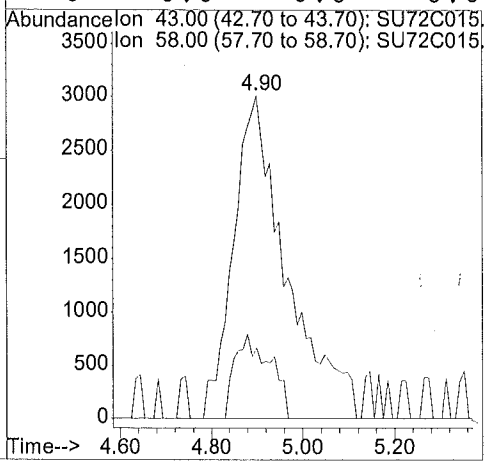
00150

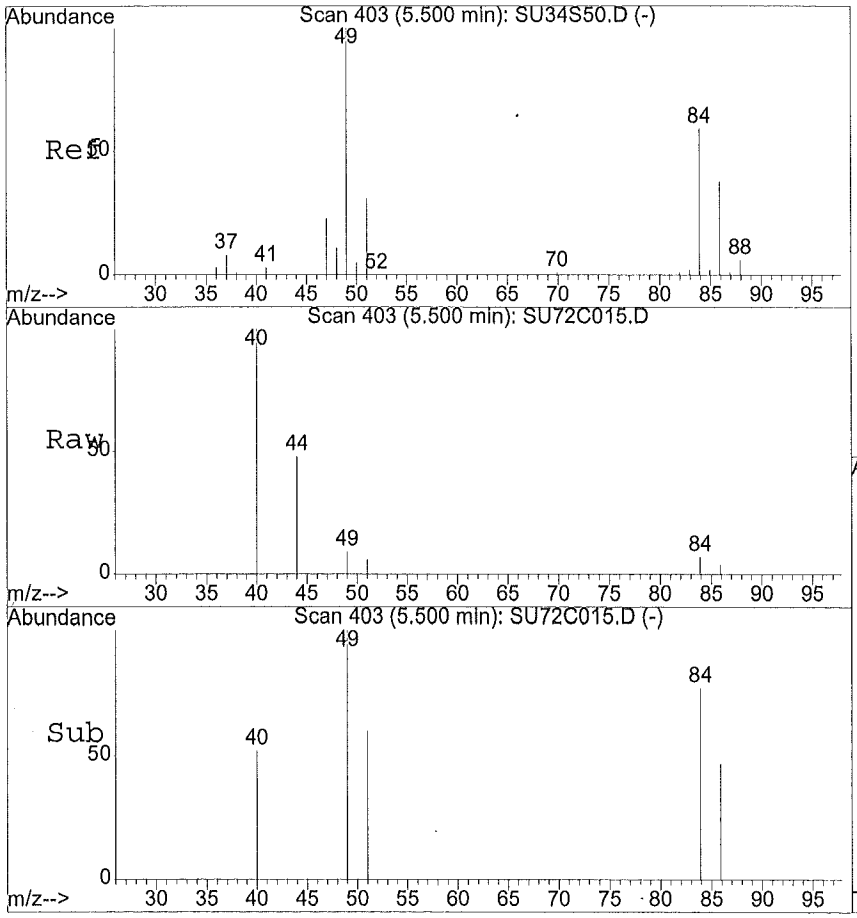


#13
Acetone
Concen: 9.62 ug/Kg
RT: 4.90 min Scan# 342
Delta R.T. 0.01 min
Lab File: SU72C015.D
Acq: 06/09/2015 00:24

Tgt Ion:43 Resp: 25065

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

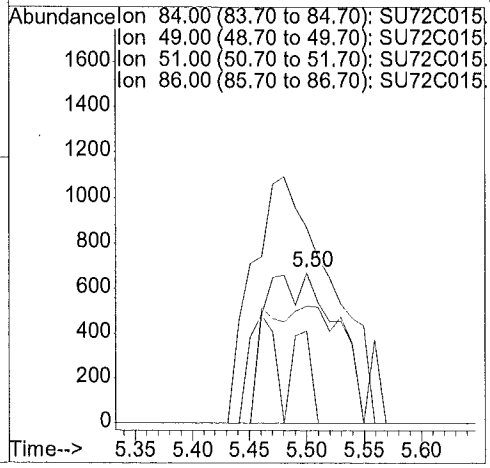


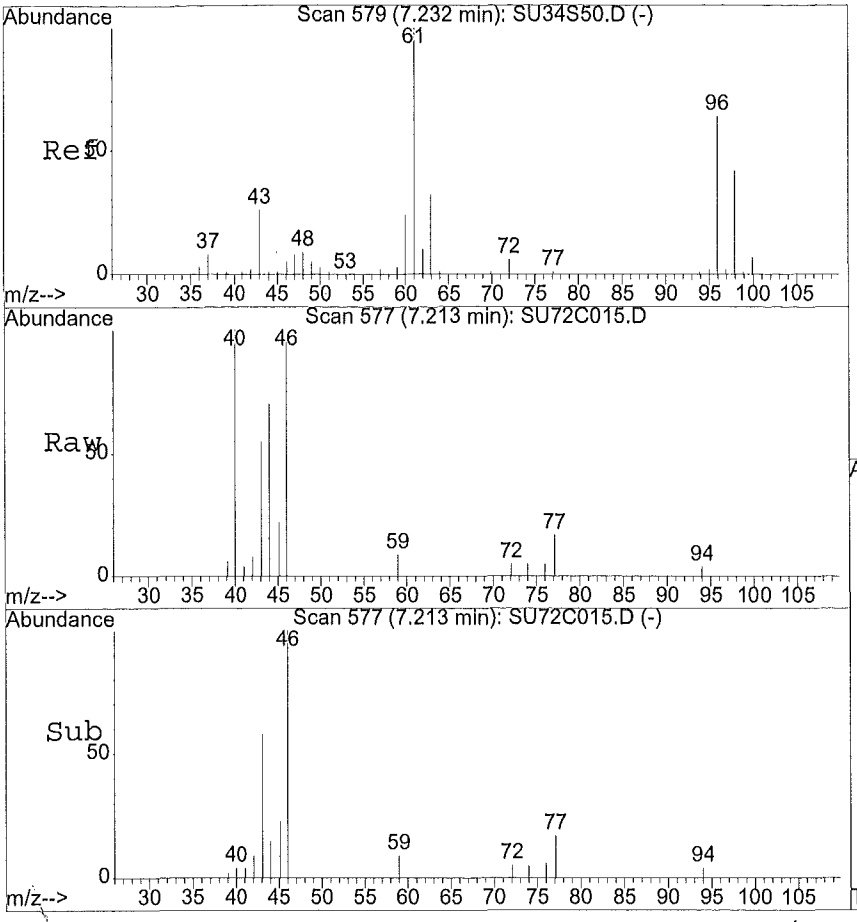


#16
Methylene chloride
Concen: 0.31 ug/Kg
RT: 5.50 min Scan# 403
Delta R.T. 0.00 min
Lab File: SU72C015.D
Acq: 06/09/2015 00:24

Tgt Ion:84 Resp: 3061

Ion	Ratio	Lower	Upper
84	100		
49	168.2	85.4	256.1
51	88.8	26.8	80.4#
86	32.7	33.1	99.2#

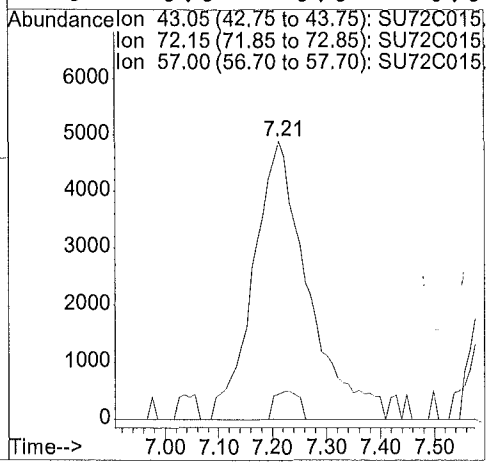


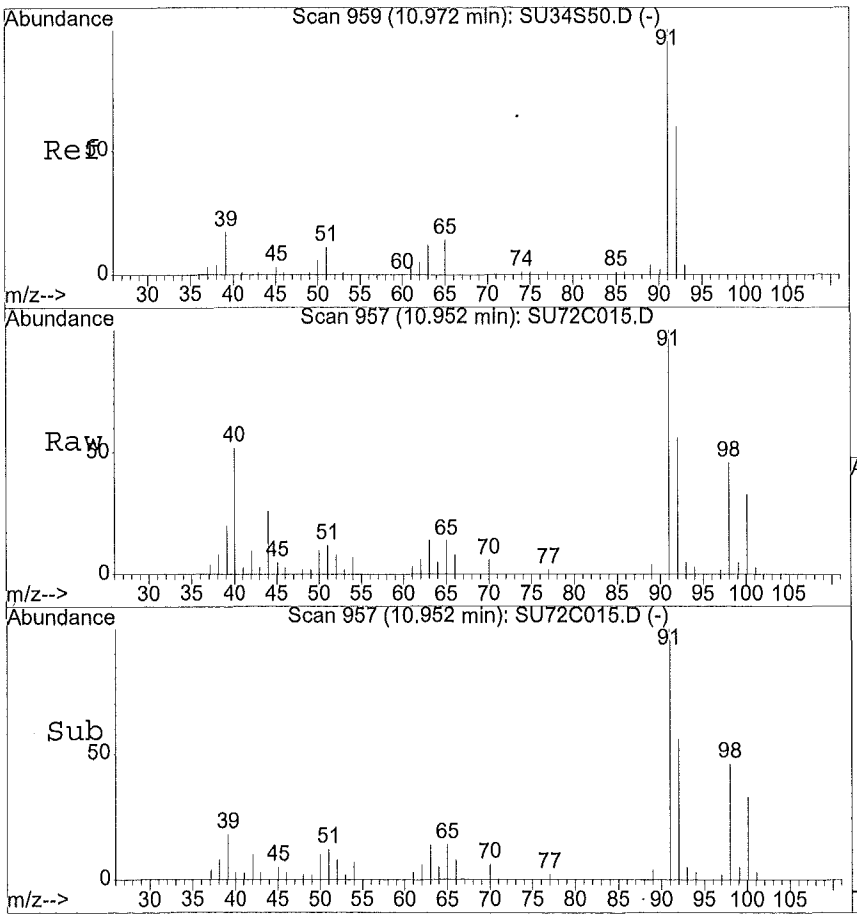


#21
2-Butanone
Concen: 11.35 ug/Kg
RT: 7.21 min Scan# 577
Delta R.T. -0.02 min
Lab File: SU72C015.D
Acq: 06/09/2015 00:24

Tgt Ion:43.05 Resp: 34365

Ion	Ratio	Lower	Upper
43	100		
72	4.6	15.9	23.9#
57	0.0	5.1	7.7#
0	0.0	0.0	0.0

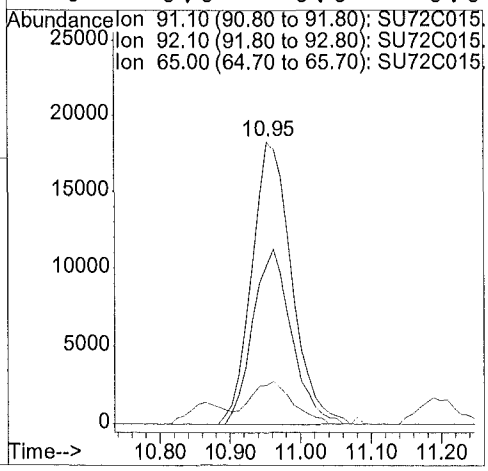




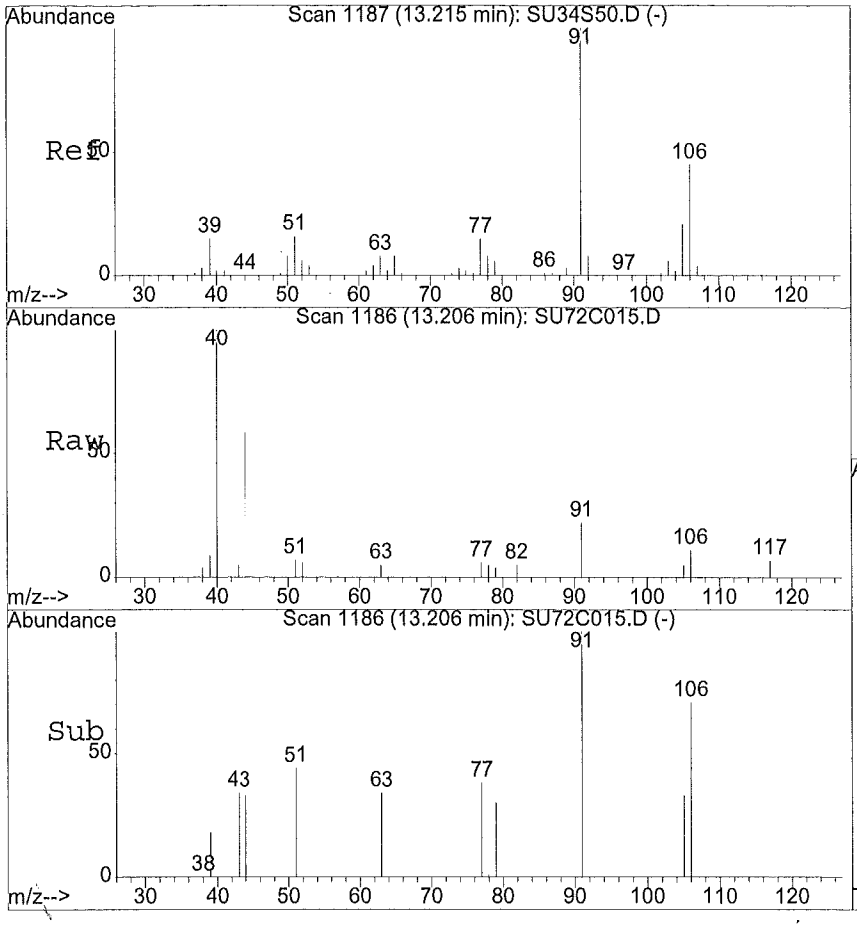
#48
Toluene
Concen: 2.86 ug/Kg
RT: 10.95 min Scan# 957
Delta R.T. -0.02 min
Lab File: SU72C015.D
Acq: 06/09/2015 00:24

Tgt Ion:91.1 Resp: 71596

Ion	Ratio	Lower	Upper
91	100		
92	60.1	48.2	72.2
65	16.2	11.7	17.5
0	0.0	0.0	0.0



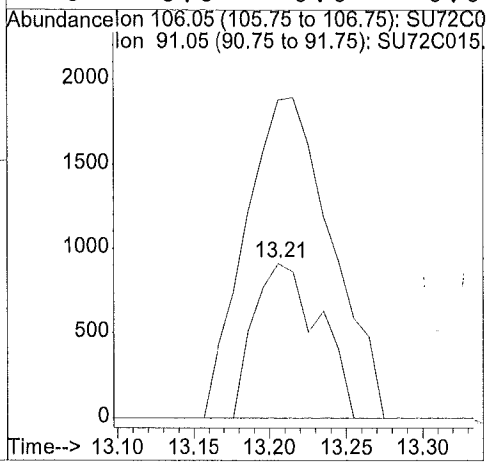
00152



#56
m,p-Xylene
Concen: 0.25 ug/Kg
RT: 13.21 min Scan# 1186
Delta R.T. -0.01 min
Lab File: SU72C015.D
Acq: 06/09/2015 00:24

Tgt Ion:106.05 Resp: 2703

Ion	Ratio	Lower	Upper
106	100		
91	273.7	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.

F9M34

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542016

Sample wt/vol: 5.25 (g/mL) g Lab File ID: SU73C016

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 18. Date Analyzed: 06/09/2015

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	23.	
75-15-0	Carbon disulfide	5.8	U
79-20-9	Methyl acetate	5.8	U
75-09-2	Methylene chloride	0.55	JB
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.

F9M34

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542016

Sample wt/vol: 5.25 (g/mL) g Lab File ID: SU73C016

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 18. Date Analyzed: 06/09/2015

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	9.4	
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	0.29	J
95-47-6	o-Xylene	5.8	U
179601-23-1	m,p-Xylene	0.29	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.
F9M34

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542016
Sample wt/vol: 5.25 (g/mL) g Lab File ID: SU73C016
Level: (TRACE or LOW/MED) LOW Date Received: 06/03/2015
% Moisture: not dec. 18. Date Analyzed: 06/09/2015
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		

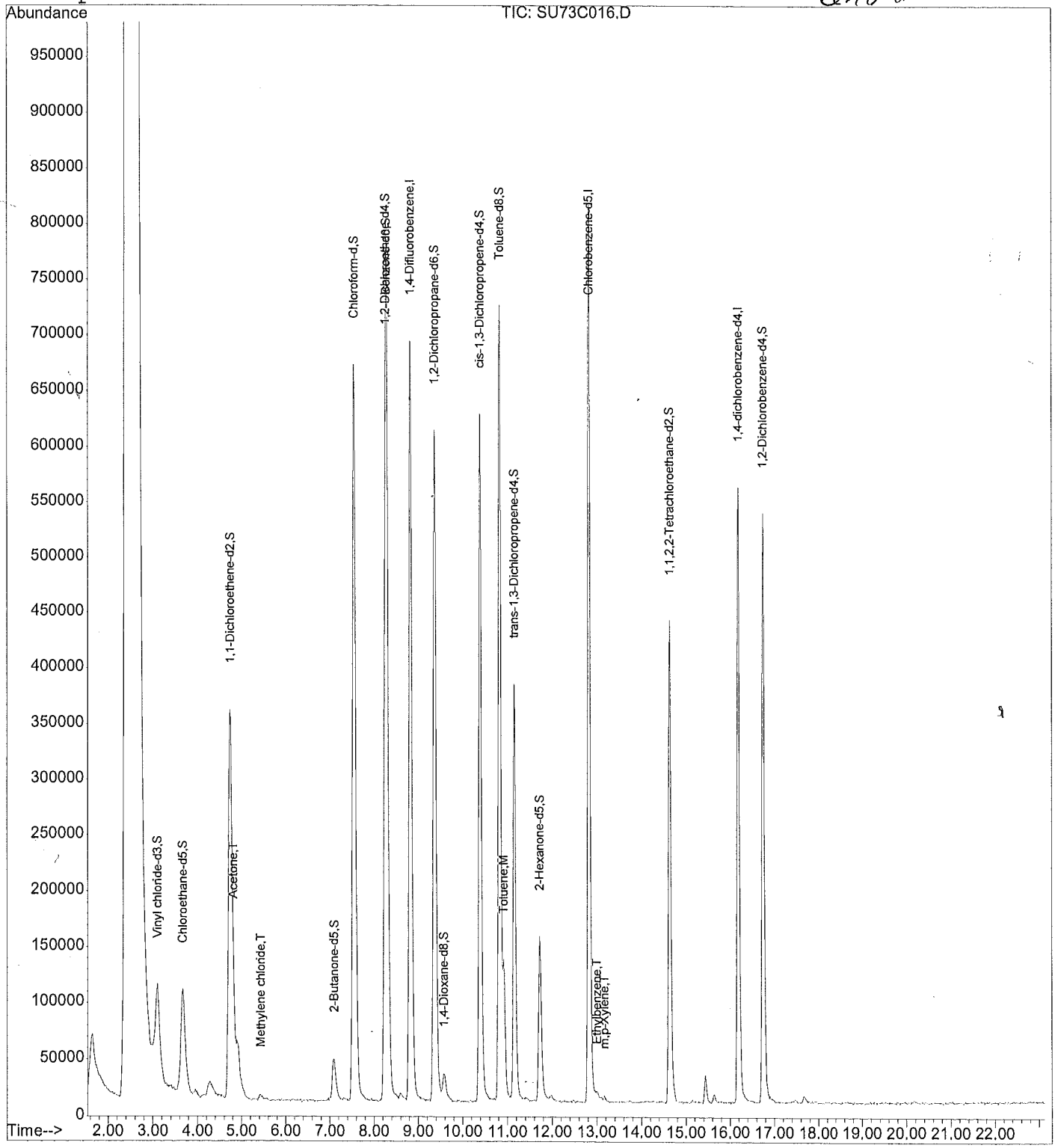
[1] EPA-designated Registry Number.

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU73C016.D
Acq Time : 06/09/2015 01:14 Operator: CQC
Sample : 1515542016 F9M34 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 10 0:28 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



00157

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU73C016.D
Acq Time : 06/09/2015 01:14 Operator: CQC
Sample : 1515542016 F9M34 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 10 0:28 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	8.83	114	1084699	50.00 ug/Kg	82.17
30) Chlorobenzene-d5	12.82	117	753986	50.00 ug/Kg	70.44
62) 1,4-dichlorobenzene-d4	16.19	152	261373	50.00 ug/Kg	42.96#
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.10	65	350004	50.57 ug/Kg	101.13%
8) Chloroethane-d5	3.67	69	339248	51.51 ug/Kg	103.02%
11) 1,1-Dichloroethene-d2	4.75	63	872251	38.22 ug/Kg	76.44%
22) 2-Butanone-d5	7.09	46	128940	68.63 ug/Kg	68.63%
25) Chloroform-d	7.55	84	1192452	53.34 ug/Kg	106.68%
27) 1,2-Dichloroethane-d4	8.25	65	535240	52.38 ug/Kg	104.76%
29) 1,4-Dioxane-d8	9.58	96	35814	1132.59 ug/Kg	113.26%
35) Benzene-d6	8.29	84	1119618	60.38 ug/Kg	120.77%
39) 1,2-Dichloropropane-d6	9.37	67	523896	57.37 ug/Kg	114.74%
42) cis-1,3-Dichloropropene-d4	10.39	79	662421	43.30 ug/Kg	86.60%
44) trans-1,3-Dichloropropene-	11.15	79	384450	43.58 ug/Kg	87.16%
49) Toluene-d8	10.83	98	898840	53.58 ug/Kg	107.17%
52) 2-Hexanone-d5	11.72	63	101093	86.46 ug/Kg	86.46%
61) 1,1,2,2-Tetrachloroethane-	14.64	84	447894	47.55 ug/Kg	95.11%
67) 1,2-Dichlorobenzene-d4	16.75	152	239925	47.88 ug/Kg	95.77%
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	4.82	43	39708	19.64 ug/Kg	100
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.43	84	3602	0.47 ug/Kg#	83
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

00159

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU73C016.D
Acq Time : 06/09/2015 01:14 Operator: CQC
Sample : 1515542016 F9M34 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

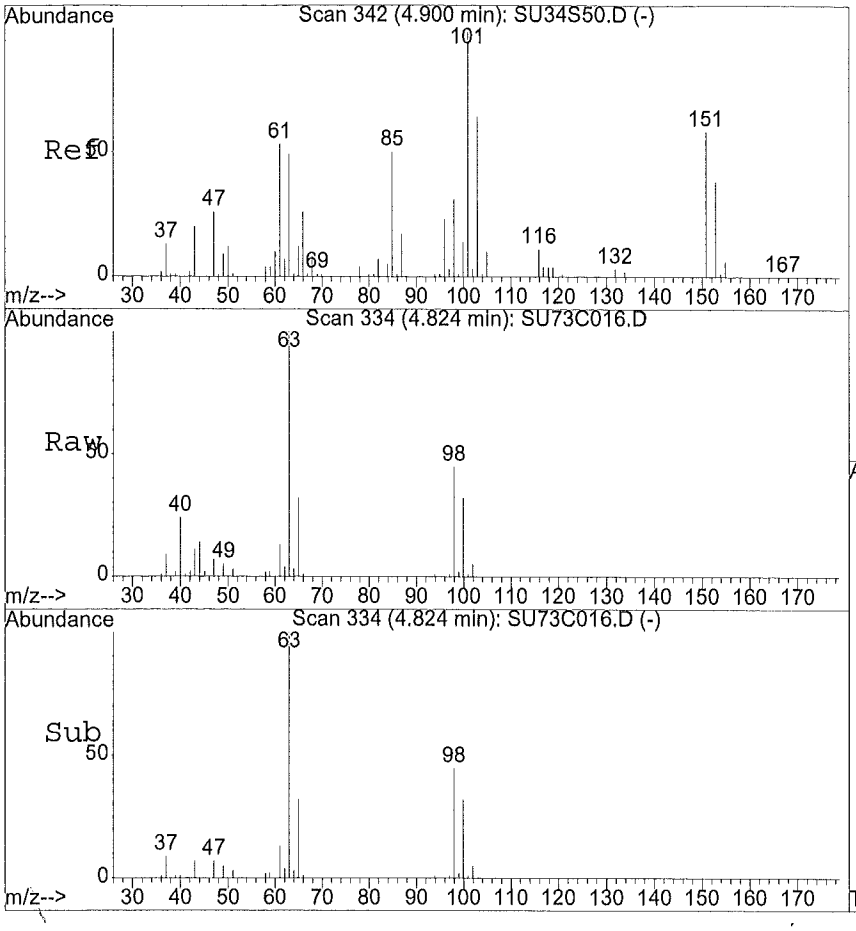
Quant Time: Jun 10 0:28 2015 Quant Results File: SCLPSS.RES

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	10.92	91	146204	8.05 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	13.01	91	5450	0.25 ug/Kg#	74
56)	m,p-Xylene	13.17	106	2015	0.25 ug/Kg#	63
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

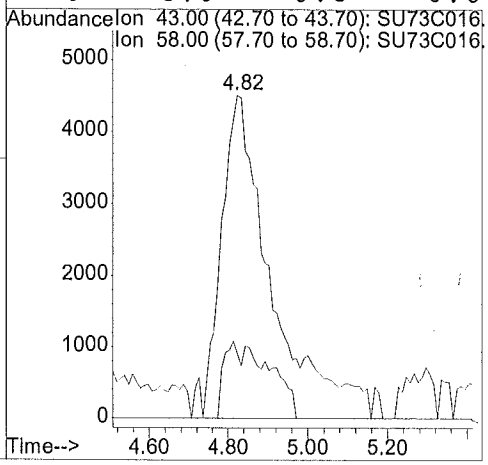
00159

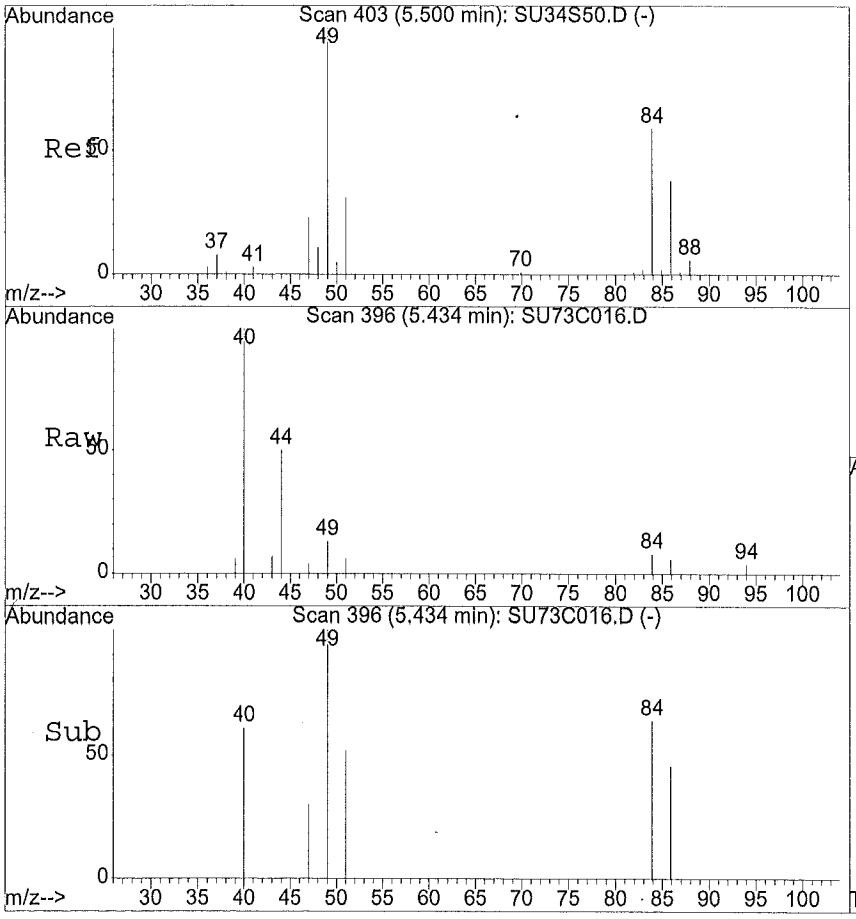


#13
Acetone
Concen: 19.64 ug/Kg
RT: 4.82 min Scan# 334
Delta R.T. -0.06 min
Lab File: SU73C016.D
Acq: 06/09/2015 01:14

Tgt Ion:43 Resp: 39708

Ion	Ratio	Lower	Upper
43	100		
58	21.5	10.9	32.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0

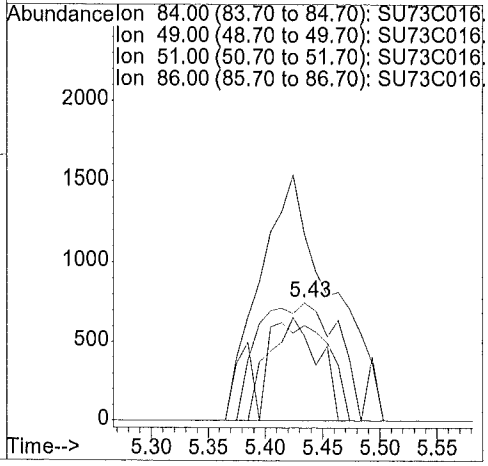


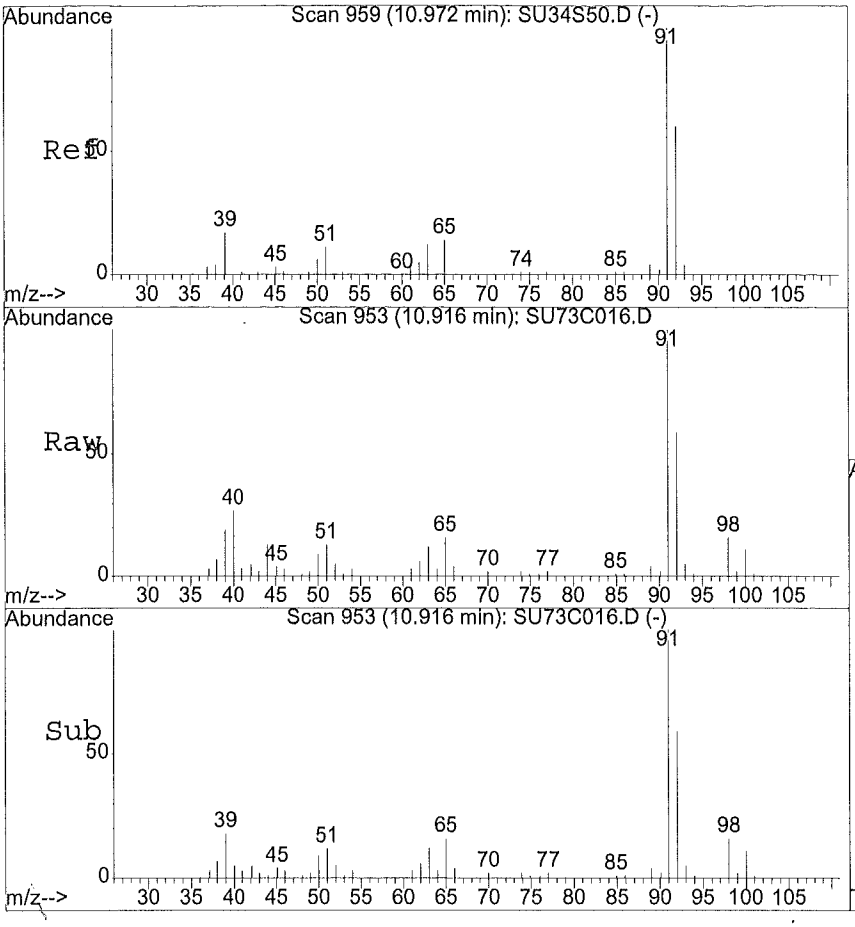


#16
Methylene chloride
Concen: 0.47 ug/Kg
RT: 5.43 min Scan# 396
Delta R.T. -0.07 min
Lab File: SU73C016.D
Acq: 06/09/2015 01:14

Tgt Ion:84 Resp: 3602

Ion	Ratio	Lower	Upper
84	100		
49	185.8	85.4	256.1
51	83.1	26.8	80.4#
86	54.8	33.1	99.2

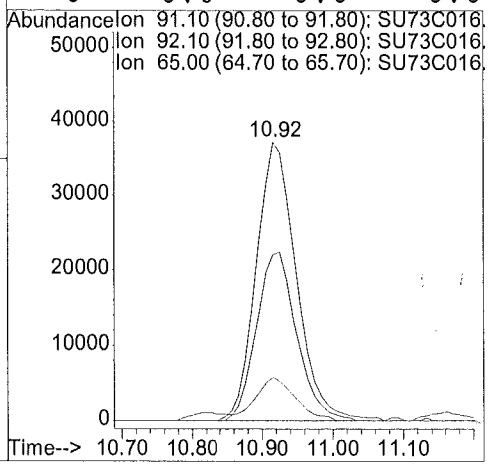


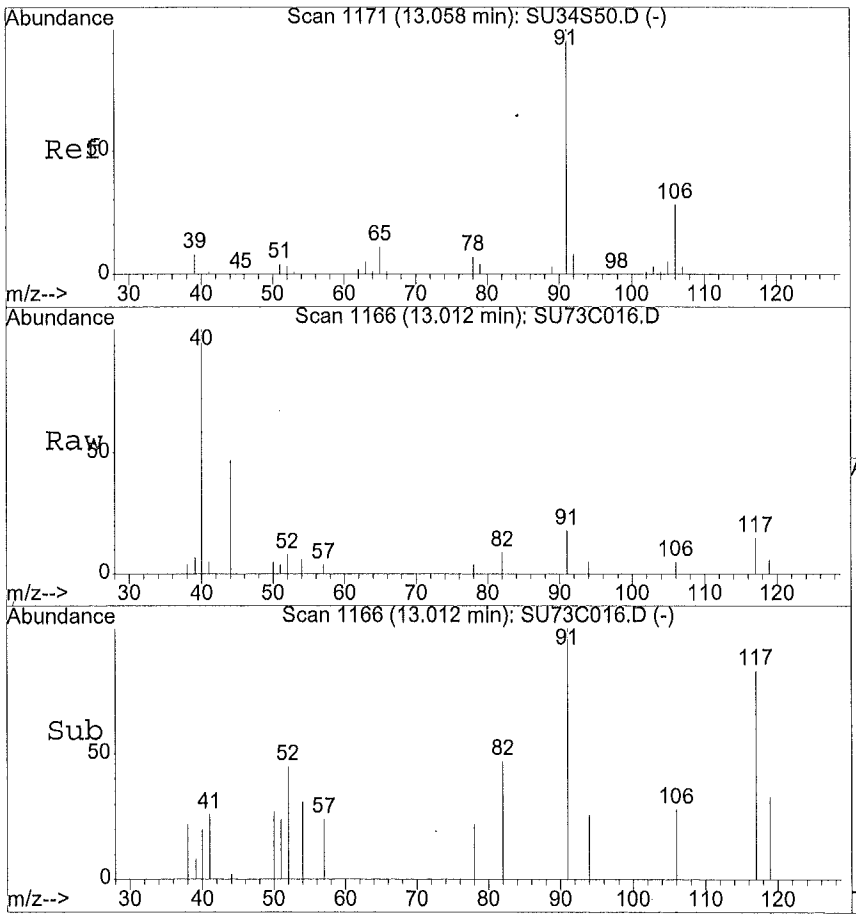


#48
Toluene
Concen: 8.05 ug/Kg
RT: 10.92 min Scan# 953
Delta R.T. -0.06 min
Lab File: SU73C016.D
Acq: 06/09/2015 01:14

Tgt Ion:91.1 Resp: 146204

Ion	Ratio	Lower	Upper
91	100		
92	60.5	48.2	72.2
65	18.0	11.7	17.5#
0	0.0	0.0	0.0

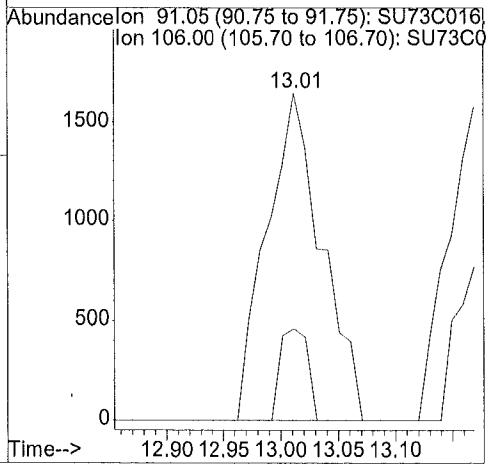


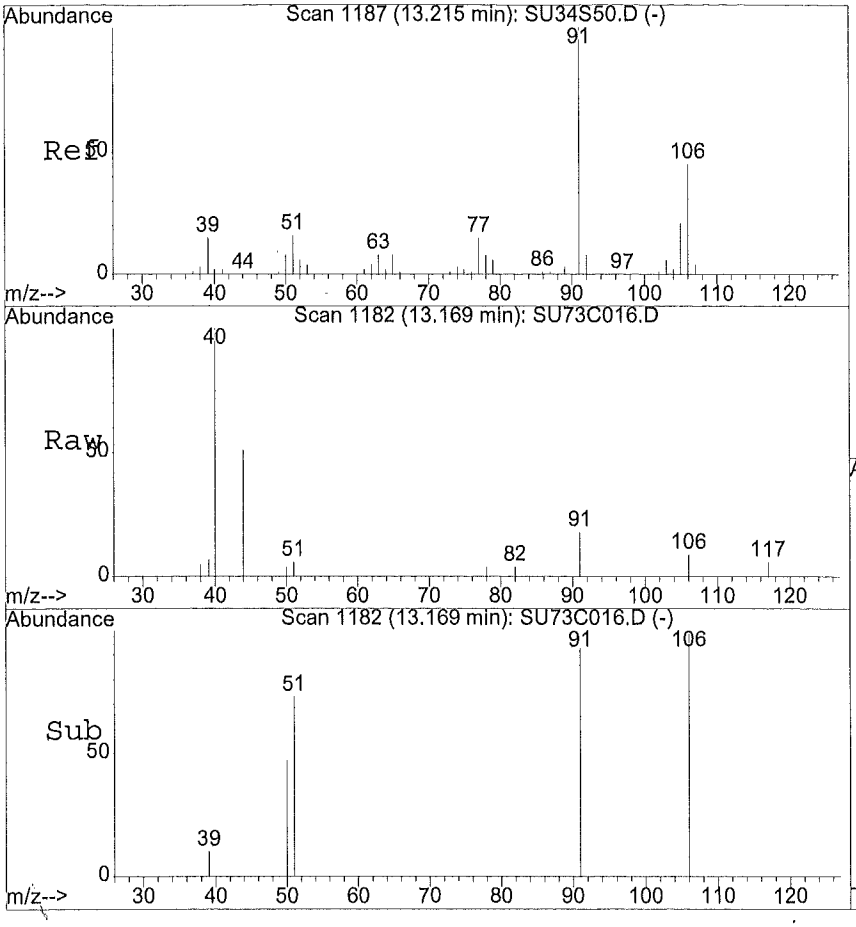


#55
Ethylbenzene
Concen: 0.25 ug/Kg
RT: 13.01 min Scan# 1166
Delta R.T. -0.05 min
Lab File: SU73C016.D
Acq: 06/09/2015 01:14

Tgt Ion:91.05 Resp: 5450

Ion	Ratio	Lower	Upper
91	100		
106	14.1	22.1	33.1#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

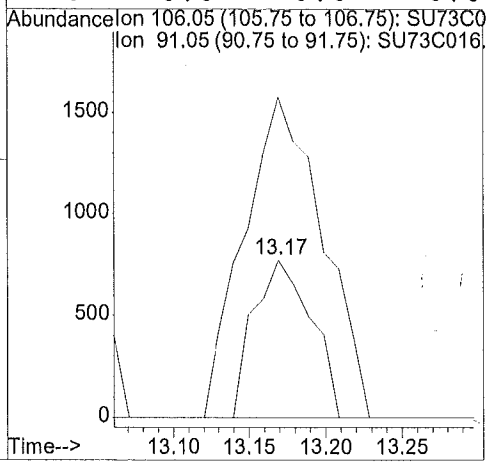




#56
m,p-Xylene
Concen: 0.25 ug/Kg
RT: 13.17 min Scan# 1182
Delta R.T. -0.05 min
Lab File: SU73C016.D
Acq: 06/09/2015 01:14

Tgt Ion:106.05 Resp: 2015

Ion	Ratio	Lower	Upper
106	100		
91	279.8	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.

F9M34RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542016RE

Sample wt/vol: 5.30 (g/mL) g Lab File ID: SU94R016

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 18. Date Analyzed: 06/10/2015

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	59.	
75-15-0	Carbon disulfide	5.8	U
79-20-9	Methyl acetate	5.8	U
75-09-2	Methylene chloride	0.62	JB
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.	
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.

F9M34RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542016RE

Sample wt/vol: 5.30 (g/mL) g Lab File ID: SU94R016

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 18. Date Analyzed: 06/10/2015

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	1.7	J
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.
F9M34RE

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542016RE
Sample wt/vol: 5.30 (g/mL) g Lab File ID: SU94R016
Level: (TRACE or LOW/MED) LOW Date Received: 06/03/2015
% Moisture: not dec. 18. Date Analyzed: 06/10/2015
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.

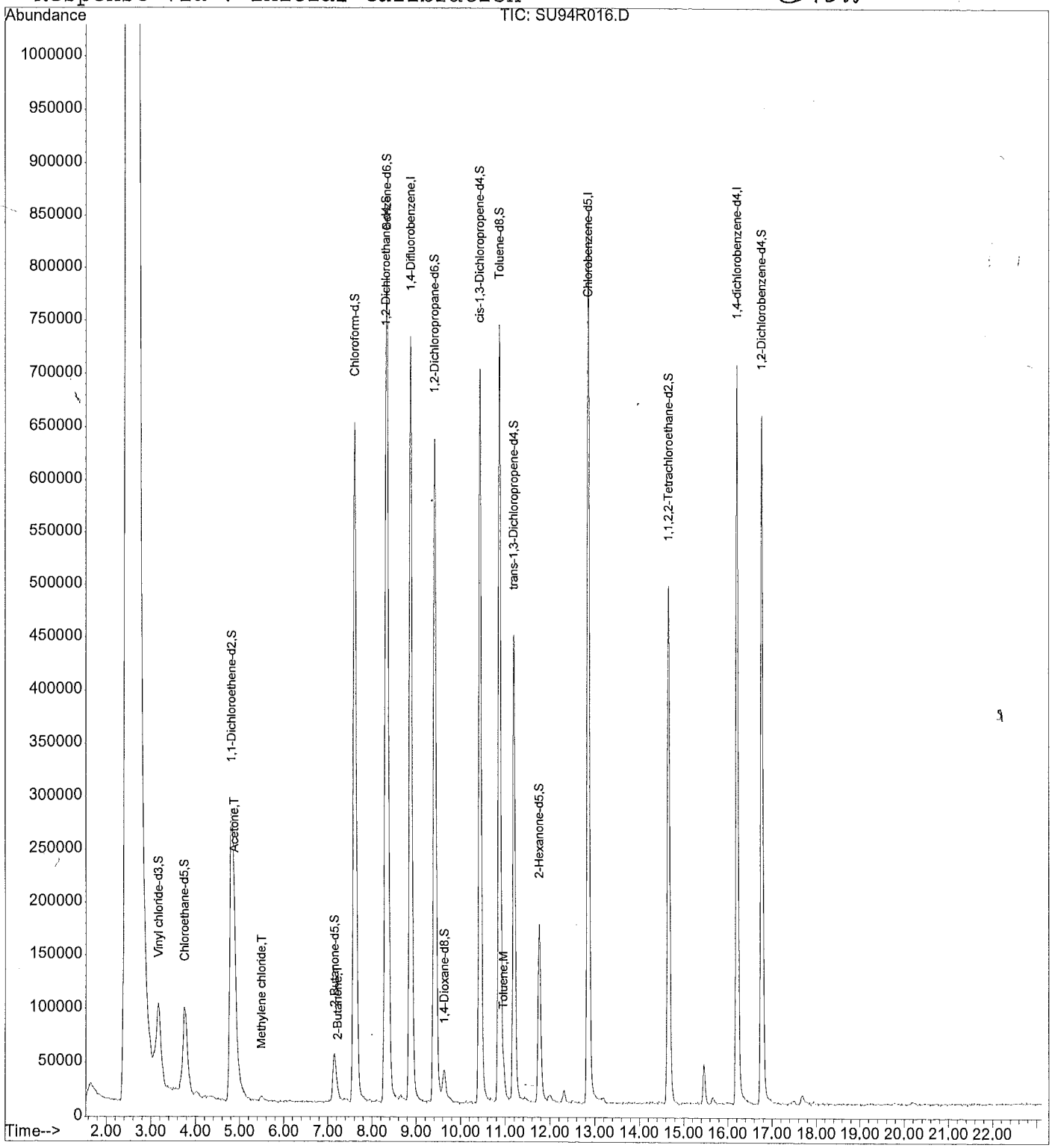
Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU94R016.D
Acq Time : 06/10/2015 00:22 Operator: CQC
Sample : 1515542016RE F9M34RE Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 10 0:47 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

CQ.15.15



Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU94R016.D
Acq Time : 06/10/2015 00:22 Operator: CQC
Sample : 1515542016RE F9M34RE Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 10 0:47 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	1120408	50.00 ug/Kg	84.87
30) Chlorobenzene-d5	12.85	117	799420	50.00 ug/Kg	74.68
62) 1,4-dichlorobenzene-d4	16.21	152	321982	50.00 ug/Kg	52.92
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.17	65	314906	44.05 ug/Kg	88.09%
8) Chloroethane-d5	3.76	69	309947	45.56 ug/Kg	91.12%
11) 1,1-Dichloroethene-d2	4.82	63	800975	33.98 ug/Kg	67.95%
22) 2-Butanone-d5	7.14	46	149948	77.26 ug/Kg	77.26%
25) Chloroform-d	7.61	84	1133958	49.11 ug/Kg	98.21%
27) 1,2-Dichloroethane-d4	8.30	65	570895	54.09 ug/Kg	108.17%
29) 1,4-Dioxane-d8	9.63	96	41960	1284.66 ug/Kg	128.47%
35) Benzene-d6	8.34	84	1097997	55.85 ug/Kg	111.70%
39) 1,2-Dichloropropane-d6	9.42	67	536927	55.45 ug/Kg	110.91%
42) cis-1,3-Dichloropropene-d4	10.43	79	747533	46.08 ug/Kg	92.17%
44) trans-1,3-Dichloropropene-	11.19	79	448206	47.92 ug/Kg	95.84%
49) Toluene-d8	10.86	98	921415	51.81 ug/Kg	103.62%
52) 2-Hexanone-d5	11.75	63	117658	94.91 ug/Kg	94.91%
61) 1,1,2,2-Tetrachloroethane-	14.66	84	508023	50.87 ug/Kg	101.75%
67) 1,2-Dichlorobenzene-d4	16.77	152	295454	47.87 ug/Kg	95.73%
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	106988	51.23 ug/Kg	97
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.49	84	4211	0.54 ug/Kg#	78
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	7.23	43	24427	10.07 ug/Kg#	72
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

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

00167

Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU94R016.D
Acq Time : 06/10/2015 00:22 Operator: CQC
Sample : 1515542016RE F9M34RE Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

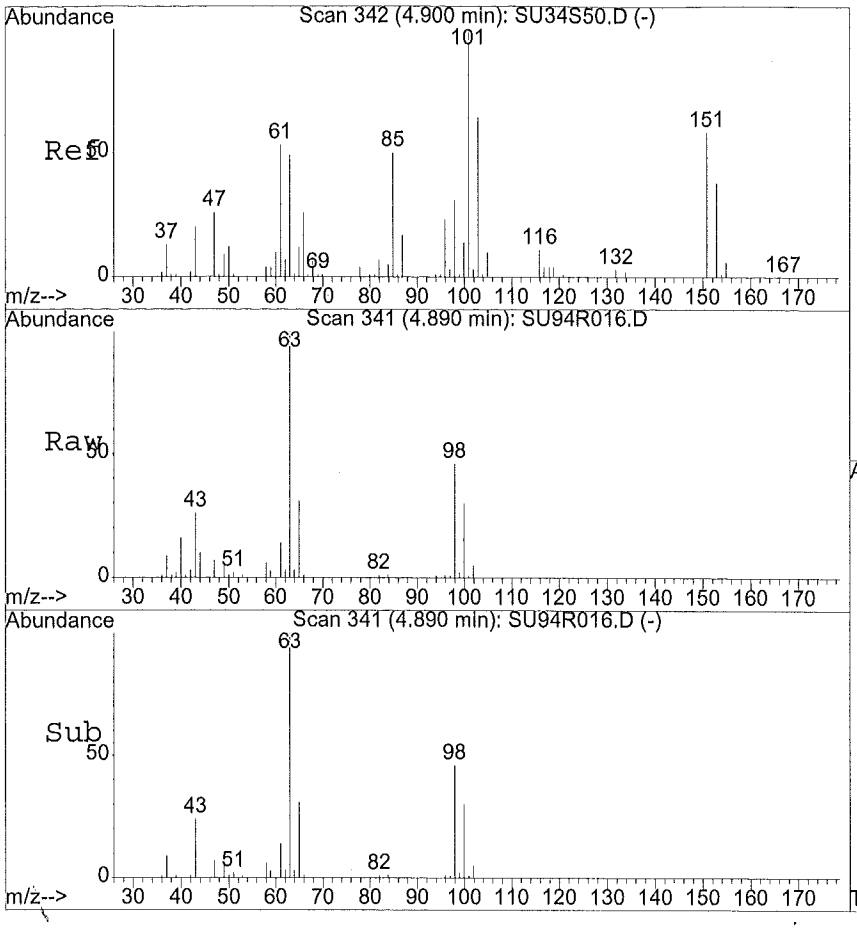
Quant Time: Jun 10 0:47 2015 Quant Results File: SCLPSS.RES

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	29122	1.51 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

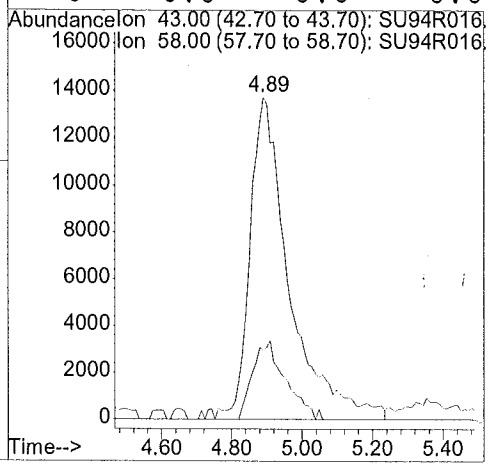
:00169

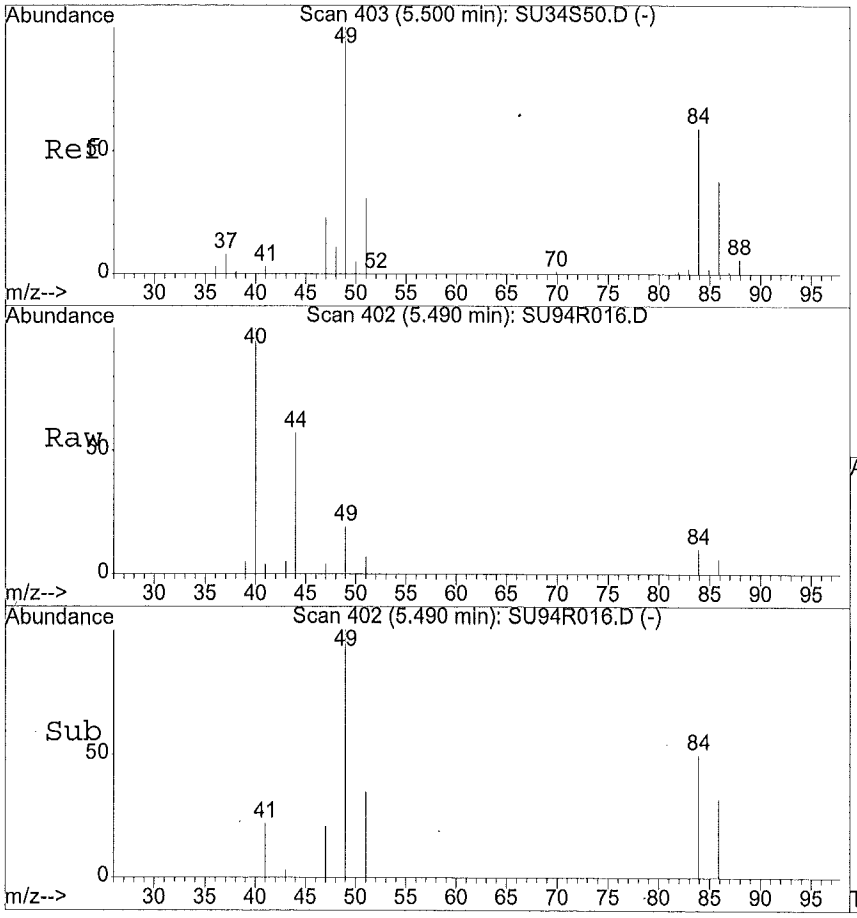


#13
Acetone
Concen: 51.23 ug/Kg
RT: 4.89 min Scan# 341
Delta R.T. 0.00 min
Lab File: SU94R016.D
Acq: 06/10/2015 00:22

Tgt Ion:43 Resp: 106988

Ion	Ratio	Lower	Upper
43	100		
58	20.3	10.9	32.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0

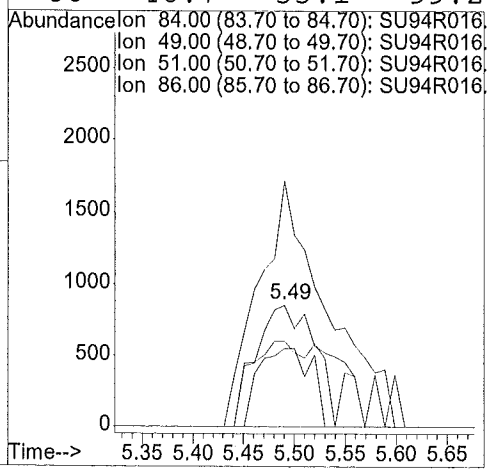


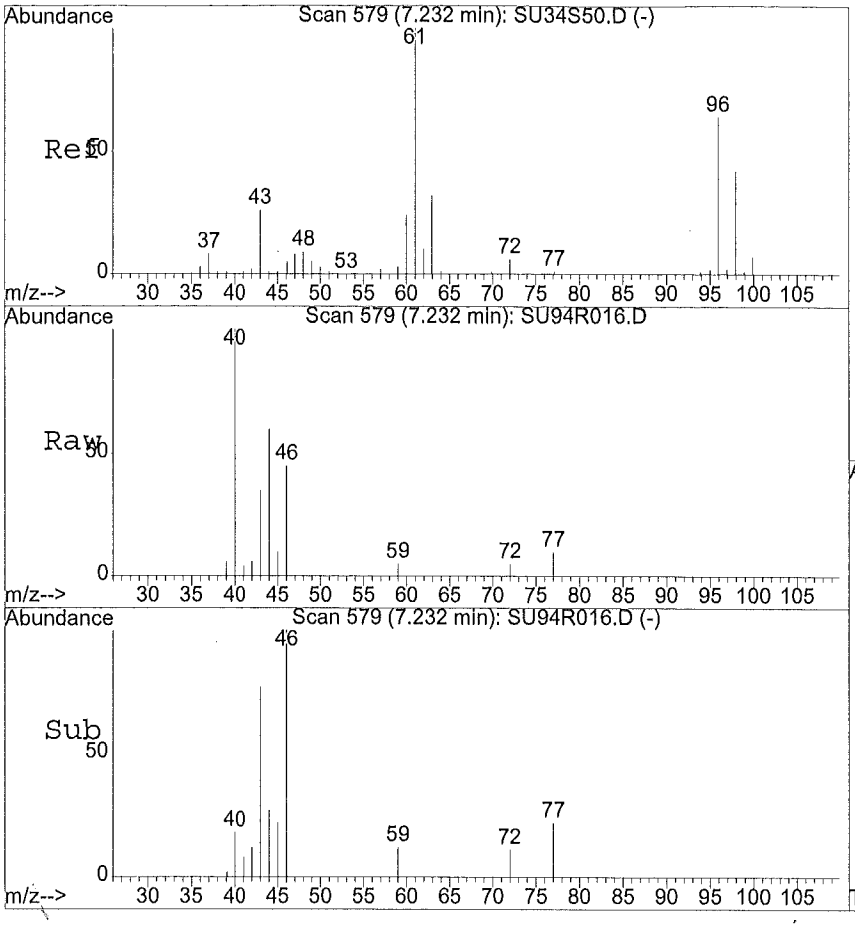


#16
Methylene chloride
Concen: 0.54 ug/Kg
RT: 5.49 min Scan# 402
Delta R.T. -0.01 min
Lab File: SU94R016.D
Acq: 06/10/2015 00:22

Tgt Ion:84 Resp: 4211

Ion	Ratio	Lower	Upper
84	100		
49	191.3	85.4	256.1
51	81.4	26.8	80.4#
86	46.7	33.1	99.2

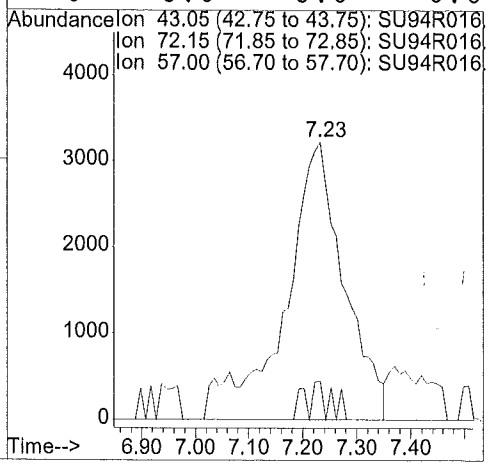


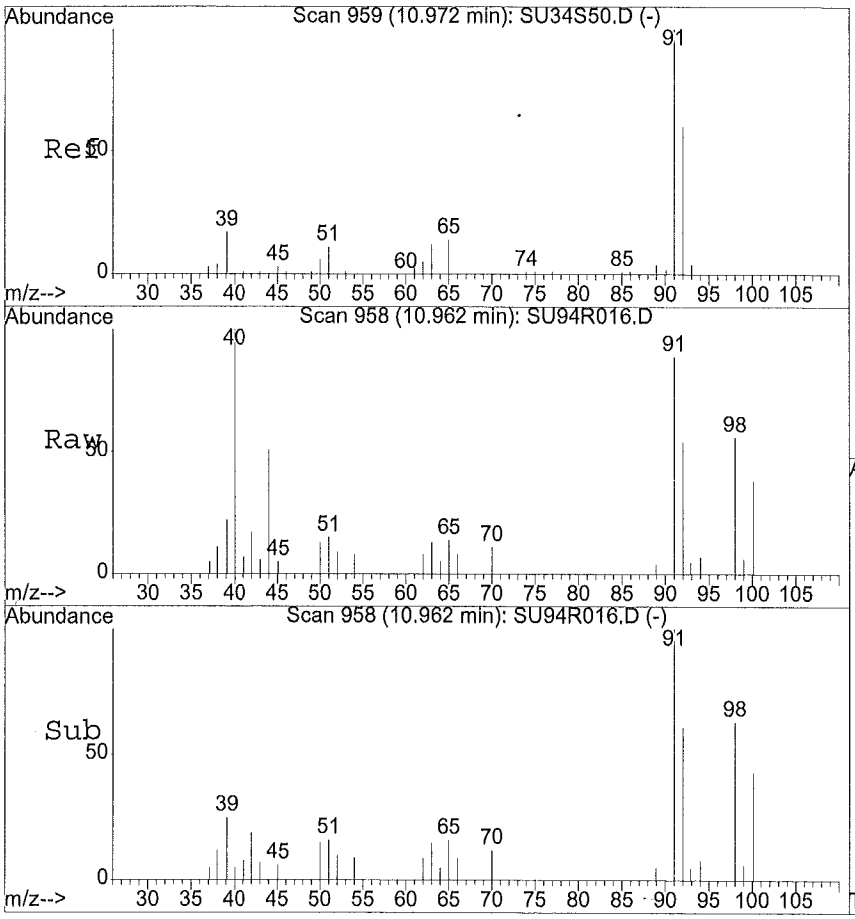


#21
2-Butanone
Concen: 10.07 ug/Kg
RT: 7.23 min Scan# 579
Delta R.T. 0.00 min
Lab File: SU94R016.D
Acq: 06/10/2015 00:22

Tgt Ion:43.05 Resp: 24427

Ion	Ratio	Lower	Upper
43	100		
72	5.7	15.9	23.9#
57	0.0	5.1	7.7#
0	0.0	0.0	0.0

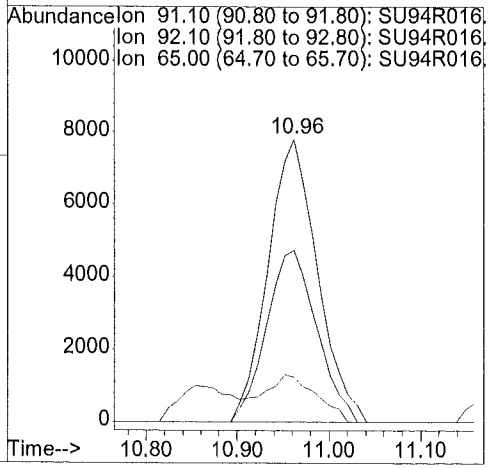




#48
Toluene
Concen: 1.51 ug/Kg
RT: 10.96 min Scan# 958
Delta R.T. -0.01 min
Lab File: SU94R016.D
Acq: 06/10/2015 00:22

Tgt Ion:91.1 Resp: 29122

Ion	Ratio	Lower	Upper
91	100		
92	61.9	48.2	72.2
65	18.6	11.7	17.5#
0	0.0	0.0	0.0



00170

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

EPA SAMPLE NO.

F9M35

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542017

Sample wt/vol: 5.82 (g/mL) g Lab File ID: SU74C017

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 18. Date Analyzed: 06/09/2015

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	5.2	U
74-87-3	Chloromethane	5.2	U
75-01-4	Vinyl chloride	5.2	U
74-83-9	Bromomethane	5.2	U
75-00-3	Chloroethane	5.2	U
75-69-4	Trichlorofluoromethane	5.2	U
75-35-4	1,1-Dichloroethene	5.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	U
67-64-1	Acetone	27.	
75-15-0	Carbon disulfide	5.2	U
79-20-9	Methyl acetate	5.2	U
75-09-2	Methylene chloride	0.45	JB
156-60-5	trans-1,2-Dichloroethene	5.2	U
1634-04-4	Methyl tert-butyl ether	5.2	U
75-34-3	1,1-Dichloroethane	5.2	U
156-59-2	cis-1,2-Dichloroethene	5.2	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.2	U
67-66-3	Chloroform	5.2	U
71-55-6	1,1,1-Trichloroethane	5.2	U
110-82-7	Cyclohexane	5.2	U
56-23-5	Carbon tetrachloride	5.2	U
71-43-2	Benzene	5.2	U
107-06-2	1,2-Dichloroethane	5.2	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.

F9M35

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542017

Sample wt/vol: 5.82 (g/mL) g Lab File ID: SU74C017

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 18. Date Analyzed: 06/09/2015

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	5.2	U
108-87-2	Methylcyclohexane	5.2	U
78-87-5	1,2-Dichloropropane	5.2	U
75-27-4	Bromodichloromethane	5.2	U
10061-01-5	cis-1,3-Dichloropropene	5.2	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	3.3	J
10061-02-6	trans-1,3-Dichloropropene	5.2	U
79-00-5	1,1,2-Trichloroethane	5.2	U
127-18-4	Tetrachloroethene	5.2	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.2	U
106-93-4	1,2-Dibromoethane	5.2	U
108-90-7	Chlorobenzene	5.2	U
100-41-4	Ethylbenzene	5.2	U
95-47-6	o-Xylene	5.2	U
179601-23-1	m,p-Xylene	5.2	U
100-42-5	Styrene	5.2	U
75-25-2	Bromoform	5.2	U
98-82-8	Isopropylbenzene	5.2	U
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U
541-73-1	1,3-Dichlorobenzene	5.2	U
106-46-7	1,4-Dichlorobenzene	5.2	U
95-50-1	1,2-Dichlorobenzene	5.2	U
96-12-8	1,2-Dibromo-3-chloropropane	5.2	U
120-82-1	1,2,4-Trichlorobenzene	5.2	U
87-61-6	1,2,3-Trichlorobenzene	5.2	U

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

EPA SAMPLE NO.

F9M35

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542017

Sample wt/vol: 5.82 (g/mL) g Lab File ID: SU74C017

Level: (TRACE or LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 18. Date Analyzed: 06/09/2015

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.

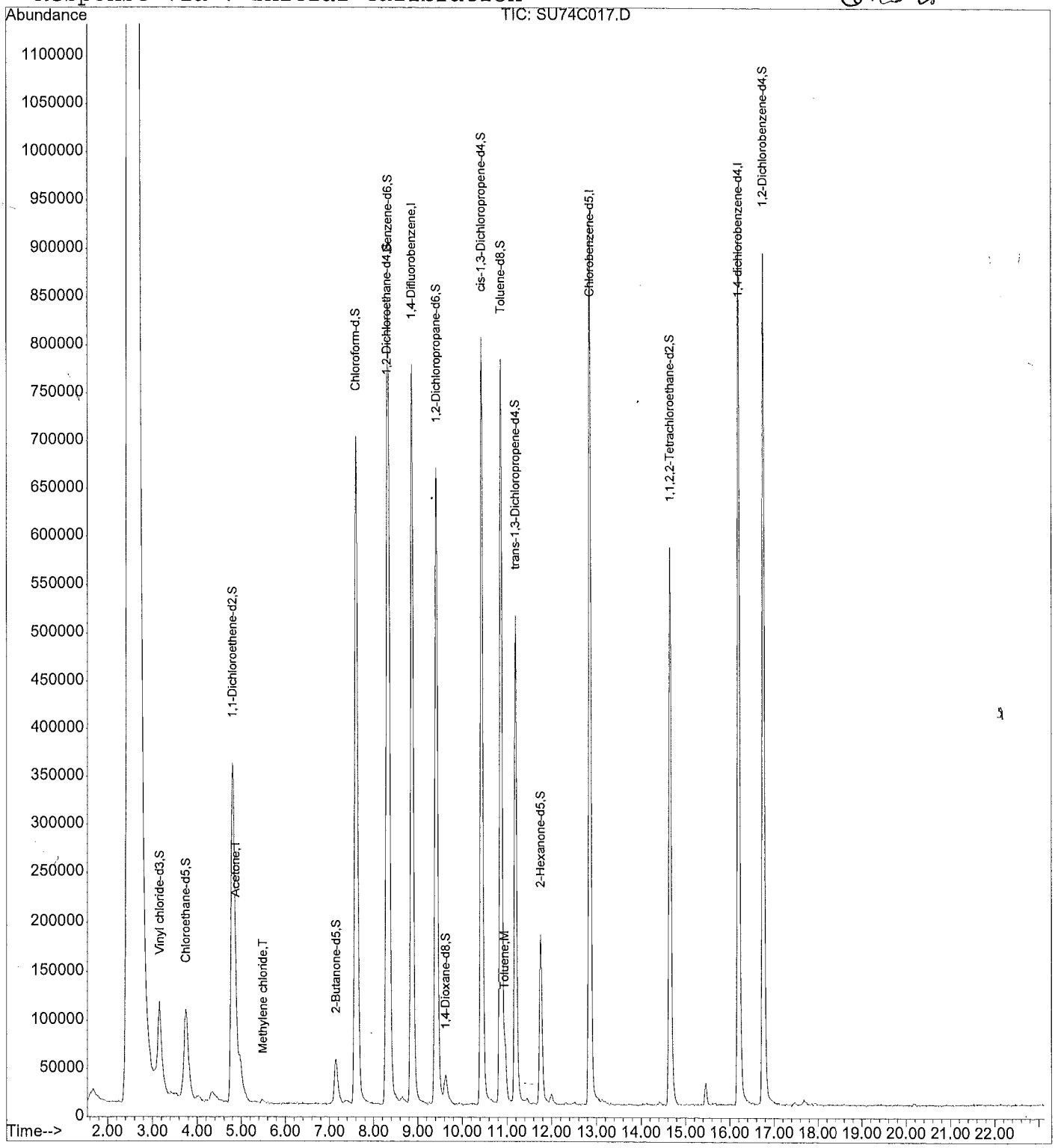
Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU74C017.D
Acq Time : 06/09/2015 01:44 Operator: CQC
Sample : 1515542017 F9M35 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 10 0:29 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

6.10.15



:9817

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU74C017.D
Acq Time : 06/09/2015 01:44 Operator: CQC
Sample : 1515542017 F9M35 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 10 0:29 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	8.87	114	1171757	50.00 ug/Kg	88.76
30) Chlorobenzene-d5	12.86	117	864353	50.00 ug/Kg	80.75
62) 1,4-dichlorobenzene-d4	16.20	152	417170	50.00 ug/Kg	68.57
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.15	65	353134	47.23 ug/Kg	94.46%
8) Chloroethane-d5	3.74	69	341863	48.05 ug/Kg	96.10%
11) 1,1-Dichloroethene-d2	4.81	63	886599	35.96 ug/Kg	71.92%
22) 2-Butanone-d5	7.14	46	161443	79.54 ug/Kg	79.54%
25) Chloroform-d	7.60	84	1211168	50.15 ug/Kg	100.30%
27) 1,2-Dichloroethane-d4	8.30	65	594014	53.81 ug/Kg	107.62%
29) 1,4-Dioxane-d8	9.63	96	42410	1241.54 ug/Kg	124.15%
35) Benzene-d6	8.34	84	1170820	55.08 ug/Kg	110.17%
39) 1,2-Dichloropropane-d6	9.42	67	566253	54.09 ug/Kg	108.18%
42) cis-1,3-Dichloropropene-d4	10.43	79	838342	47.80 ug/Kg	95.60%
44) trans-1,3-Dichloropropene-	11.19	79	509941	50.42 ug/Kg	100.85%
49) Toluene-d8	10.87	98	973564	50.63 ug/Kg	101.26%
52) 2-Hexanone-d5	11.75	63	120214	89.69 ug/Kg	89.69%
61) 1,1,2,2-Tetrachloroethane-	14.66	84	594520	55.06 ug/Kg	110.13%
67) 1,2-Dichlorobenzene-d4	16.76	152	394842	49.37 ug/Kg	98.75%
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	4.88	43	56321	25.79 ug/Kg	97
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.49	84	3488	0.43 ug/Kg#	76
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

00175

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU74C017.D
Acq Time : 06/09/2015 01:44 Operator: CQC
Sample : 1515542017 F9M35 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

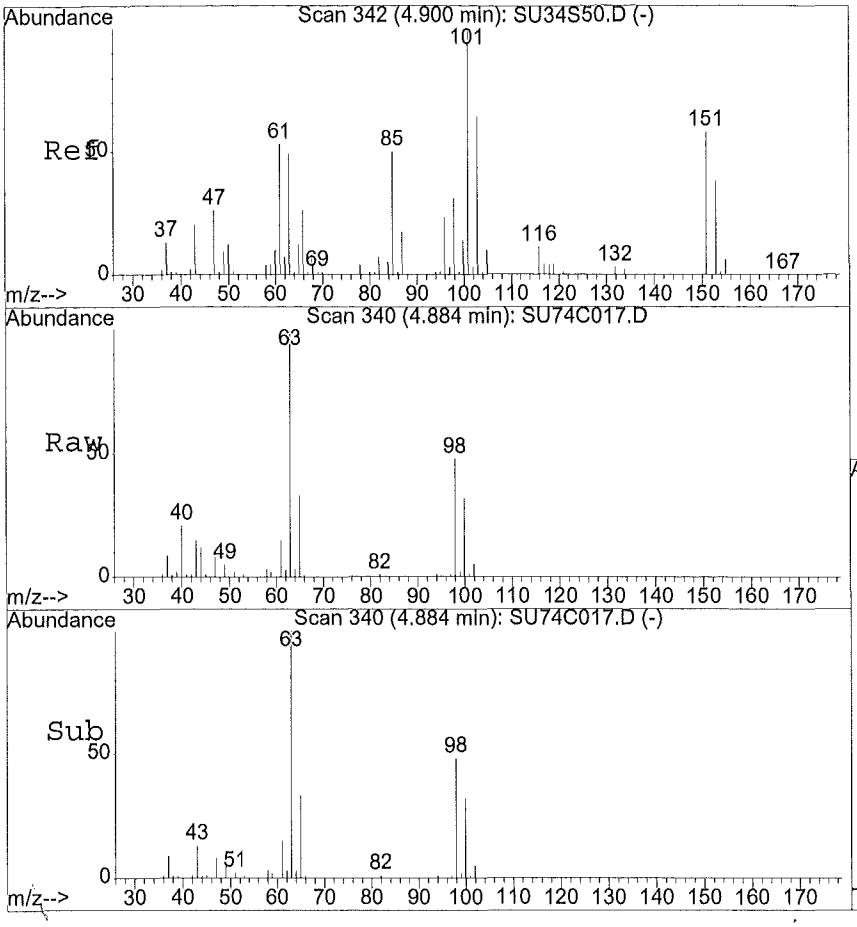
Quant Time: Jun 10 0:29 2015 Quant Results File: SCLPSS.RES

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	10.96	91	66134	3.18 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

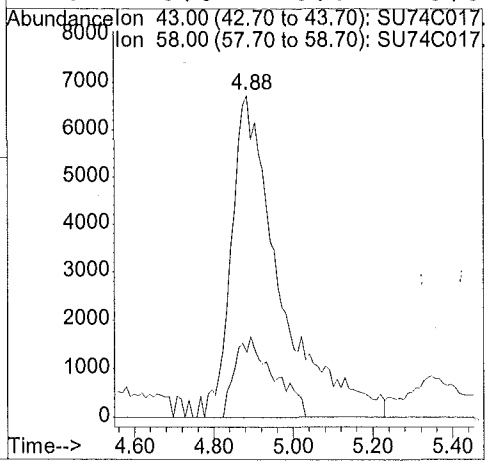
00176

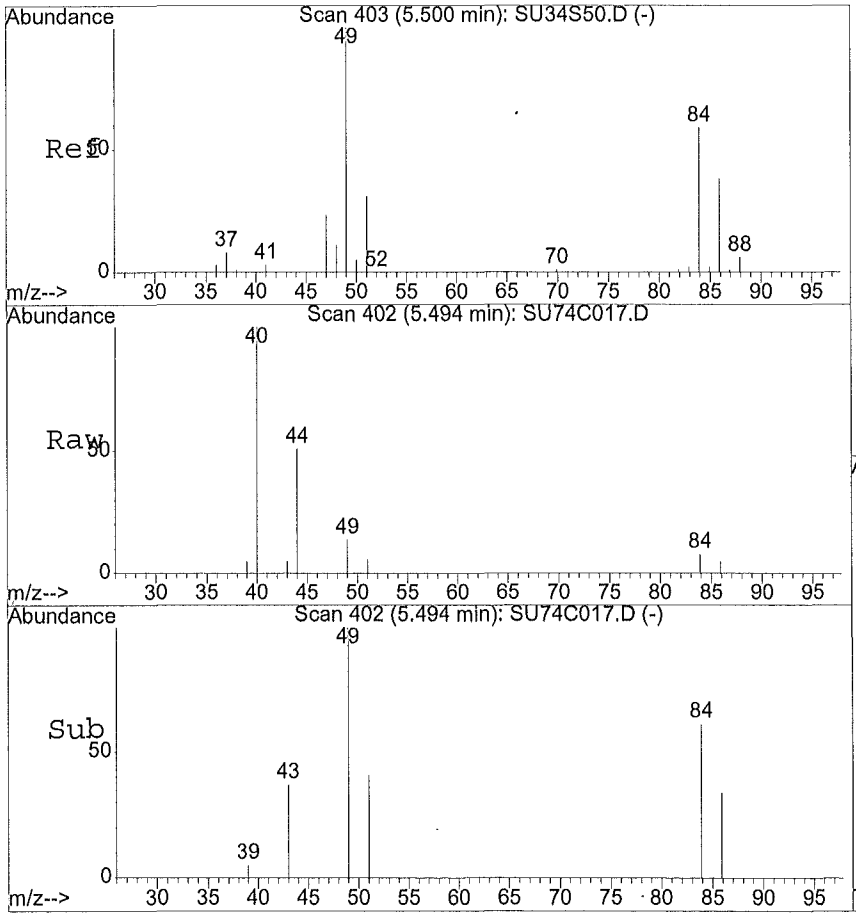


#13
Acetone
Concen: 25.79 ug/Kg
RT: 4.88 min Scan# 340
Delta R.T. -0.00 min
Lab File: SU74C017.D
Acq: 06/09/2015 01:44

Tgt Ion:43 Resp: 56321

Ion	Ratio	Lower	Upper
43	100		
58	20.0	10.9	32.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0

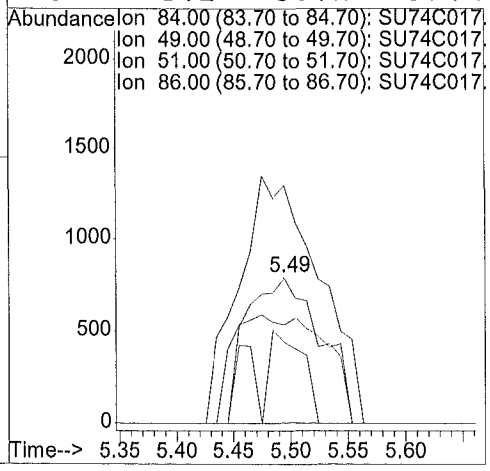


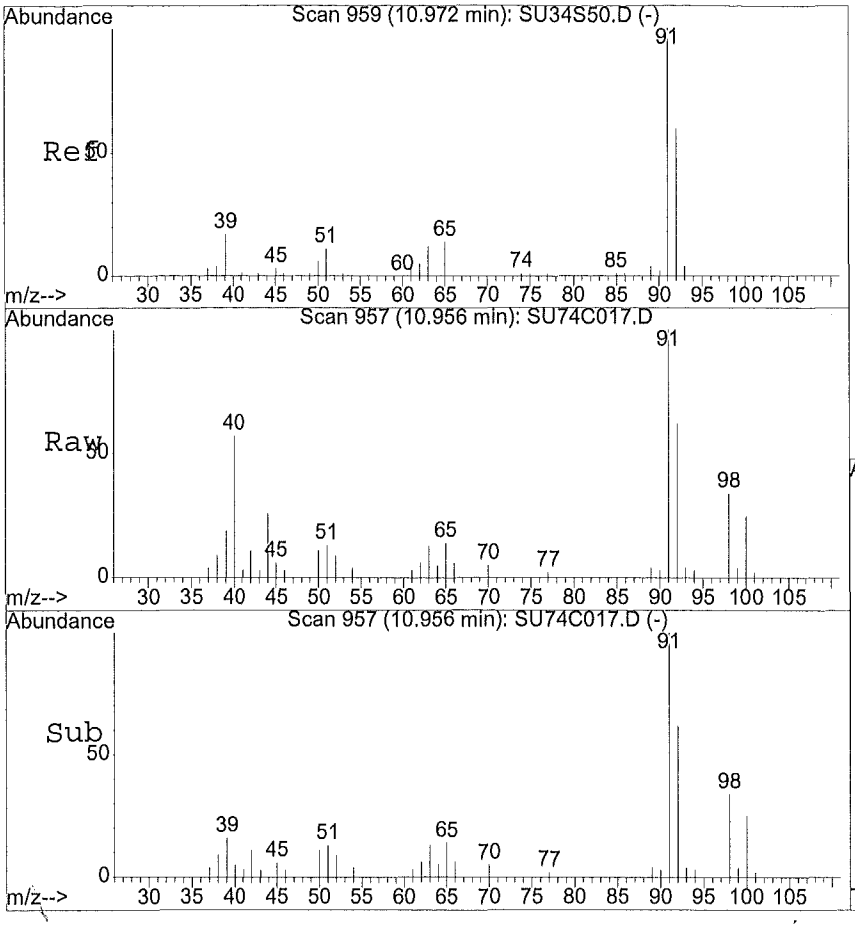


#16
Methylene chloride
Concen: 0.43 ug/Kg
RT: 5.49 min Scan# 402
Delta R.T. -0.01 min
Lab File: SU74C017.D
Acq: 06/09/2015 01:44

Tgt Ion:84 Resp: 3488

Ion	Ratio	Lower	Upper
84	100		
49	187.8	85.4	256.1
51	94.1	26.8	80.4#
86	43.2	33.1	99.2

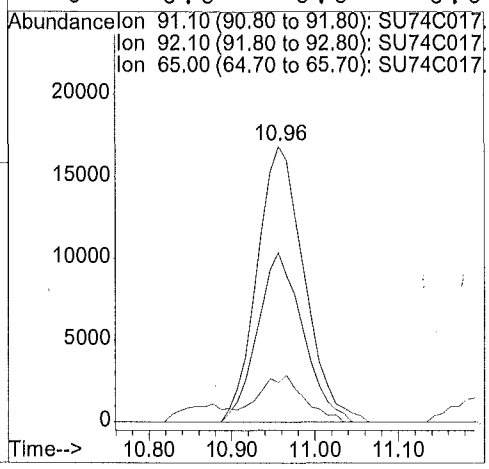




#48
Toluene
Concen: 3.18 ug/Kg
RT: 10.96 min Scan# 957
Delta R.T. -0.02 min
Lab File: SU74C017.D
Acq: 06/09/2015 01:44

Tgt Ion:91.1 Resp: 66134

Ion	Ratio	Lower	Upper
91	100		
92	59.5	48.2	72.2
65	16.3	11.7	17.5
0	0.0	0.0	0.0



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

EPA SAMPLE NO.

F9M37

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542018

Sample wt/vol: 4.67 (g/mL) g Lab File ID: SU82C018

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 14. Date Analyzed: 06/09/2015

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	6.3	U
74-87-3	Chloromethane	6.3	U
75-01-4	Vinyl chloride	6.3	U
74-83-9	Bromomethane	6.3	U
75-00-3	Chloroethane	6.3	U
75-69-4	Trichlorofluoromethane	6.3	U
75-35-4	1,1-Dichloroethene	6.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.3	U
67-64-1	Acetone	13.	U
75-15-0	Carbon disulfide	6.3	U
79-20-9	Methyl acetate	6.3	U
75-09-2	Methylene chloride	0.67	JB
156-60-5	trans-1,2-Dichloroethene	6.3	U
1634-04-4	Methyl tert-butyl ether	6.3	U
75-34-3	1,1-Dichloroethane	6.3	U
156-59-2	cis-1,2-Dichloroethene	6.3	U
78-93-3	2-Butanone	13.	U
74-97-5	Bromochloromethane	6.3	U
67-66-3	Chloroform	6.3	U
71-55-6	1,1,1-Trichloroethane	6.3	U
110-82-7	Cyclohexane	6.3	U
56-23-5	Carbon tetrachloride	6.3	U
71-43-2	Benzene	6.3	U
107-06-2	1,2-Dichloroethane	6.3	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.

F9M37

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542018

Sample wt/vol: 4.67 (g/mL) g Lab File ID: SU82C018

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 14. Date Analyzed: 06/09/2015

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	6.3	U
108-87-2	Methylcyclohexane	6.3	U
78-87-5	1,2-Dichloropropane	6.3	U
75-27-4	Bromodichloromethane	6.3	U
10061-01-5	cis-1,3-Dichloropropene	6.3	U
108-10-1	4-Methyl-2-Pentanone	13.	U
108-88-3	Toluene	17.	
10061-02-6	trans-1,3-Dichloropropene	6.3	U
79-00-5	1,1,2-Trichloroethane	6.3	U
127-18-4	Tetrachloroethene	6.3	U
591-78-6	2-Hexanone	13.	U
124-48-1	Dibromochloromethane	6.3	U
106-93-4	1,2-Dibromoethane	6.3	U
108-90-7	Chlorobenzene	6.3	U
100-41-4	Ethylbenzene	6.3	U
95-47-6	o-Xylene	6.3	U
179601-23-1	m,p-Xylene	0.34	J
100-42-5	Styrene	6.3	U
75-25-2	Bromoform	6.3	U
98-82-8	Isopropylbenzene	6.3	U
79-34-5	1,1,2,2-Tetrachloroethane	6.3	U
541-73-1	1,3-Dichlorobenzene	6.3	U
106-46-7	1,4-Dichlorobenzene	6.3	U
95-50-1	1,2-Dichlorobenzene	6.3	U
96-12-8	1,2-Dibromo-3-chloropropane	6.3	U
120-82-1	1,2,4-Trichlorobenzene	6.3	U
87-61-6	1,2,3-Trichlorobenzene	6.3	U

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

EPA SAMPLE NO.

F9M37

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542018

Sample wt/vol: 4.67 (g/mL) g Lab File ID: SU82C018

Level: (TRACE or LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 14. Date Analyzed: 06/09/2015

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.

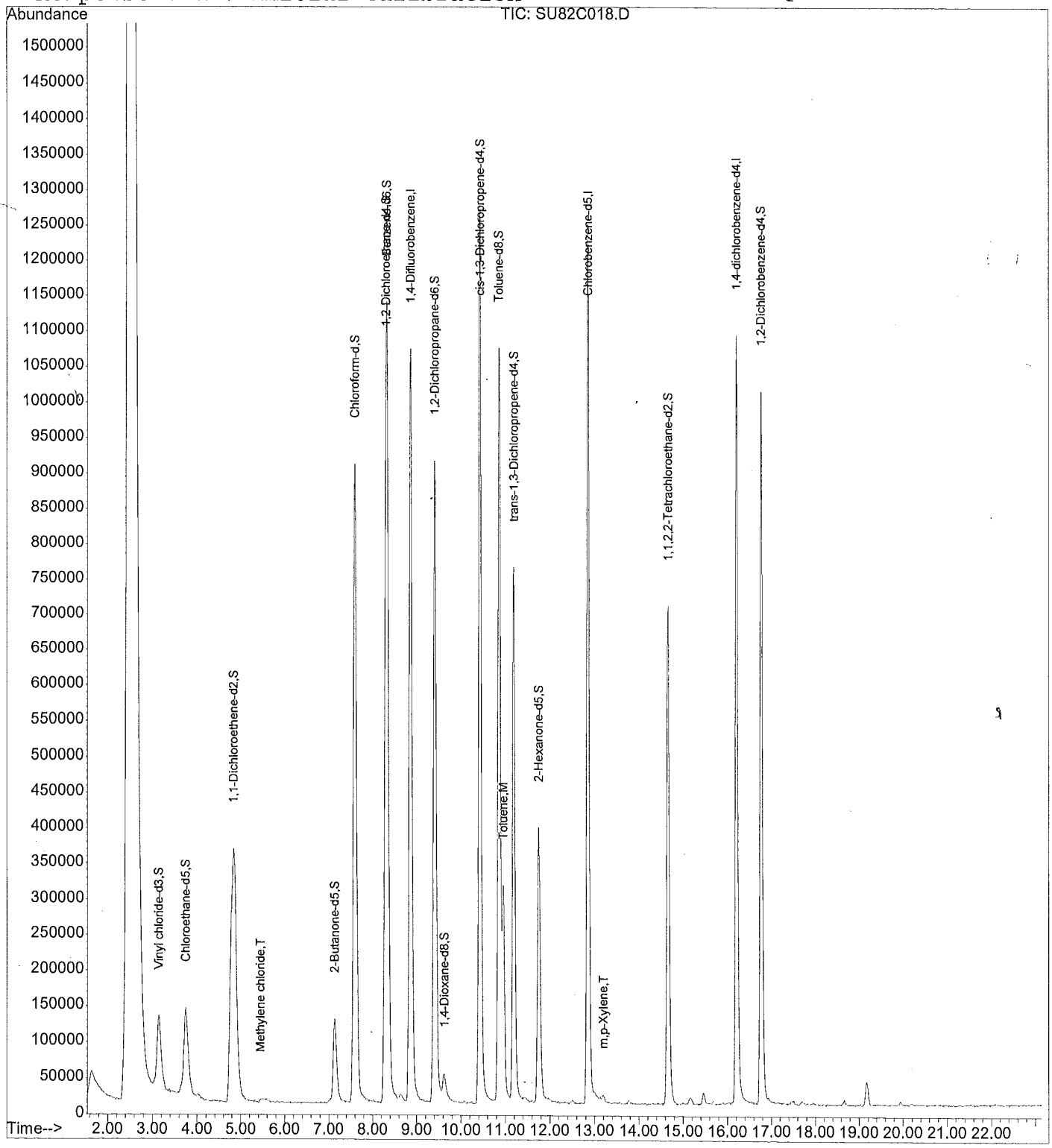
Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU82C018.D
Acq Time : 06/09/2015 18:09 Operator: CQC
Sample : 1515542018 F9M37 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 10 0:41 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

6.12.15



00182

Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU82C018.D
Acq Time : 06/09/2015 18:09 Operator: CQC
Sample : 1515542018 F9M37 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 10 0:41 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	1686153	50.00 ug/Kg	127.73
30) Chlorobenzene-d5	12.85	117	1174903	50.00 ug/Kg	109.76
62) 1,4-dichlorobenzene-d4	16.21	152	507239	50.00 ug/Kg	83.37
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.15	65	464448	43.17 ug/Kg	86.33%
8) Chloroethane-d5	3.75	69	453144	44.26 ug/Kg	88.52%
11) 1,1-Dichloroethene-d2	4.84	63	1204001	33.94 ug/Kg	67.87%
22) 2-Butanone-d5	7.13	46	387895	132.81 ug/Kg	132.81%
25) Chloroform-d	7.60	84	1629289	46.88 ug/Kg	93.77%
27) 1,2-Dichloroethane-d4	8.29	65	798780	50.29 ug/Kg	100.57%
29) 1,4-Dioxane-d8	9.62	96	59247	1205.31 ug/Kg	120.53%
35) Benzene-d6	8.32	84	1626070	56.28 ug/Kg	112.56%
39) 1,2-Dichloropropane-d6	9.41	67	770853	54.17 ug/Kg	108.34%
42) cis-1,3-Dichloropropene-d4	10.43	79	1358321	56.98 ug/Kg	113.95%
44) trans-1,3-Dichloropropene-	11.19	79	782953	56.96 ug/Kg	113.91%
49) Toluene-d8	10.85	98	1358480	51.97 ug/Kg	103.95%
52) 2-Hexanone-d5	11.75	63	267684	146.92 ug/Kg	146.92%#
61) 1,1,2,2-Tetrachloroethane-	14.66	84	731618	49.85 ug/Kg	99.70%
67) 1,2-Dichlorobenzene-d4	16.77	152	463848	47.70 ug/Kg	95.40%
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	5.46	84	6295	0.53 ug/Kg#	77
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

00193

Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU82C018.D
Acq Time : 06/09/2015 18:09 Operator: CQC
Sample : 1515542018 F9M37 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

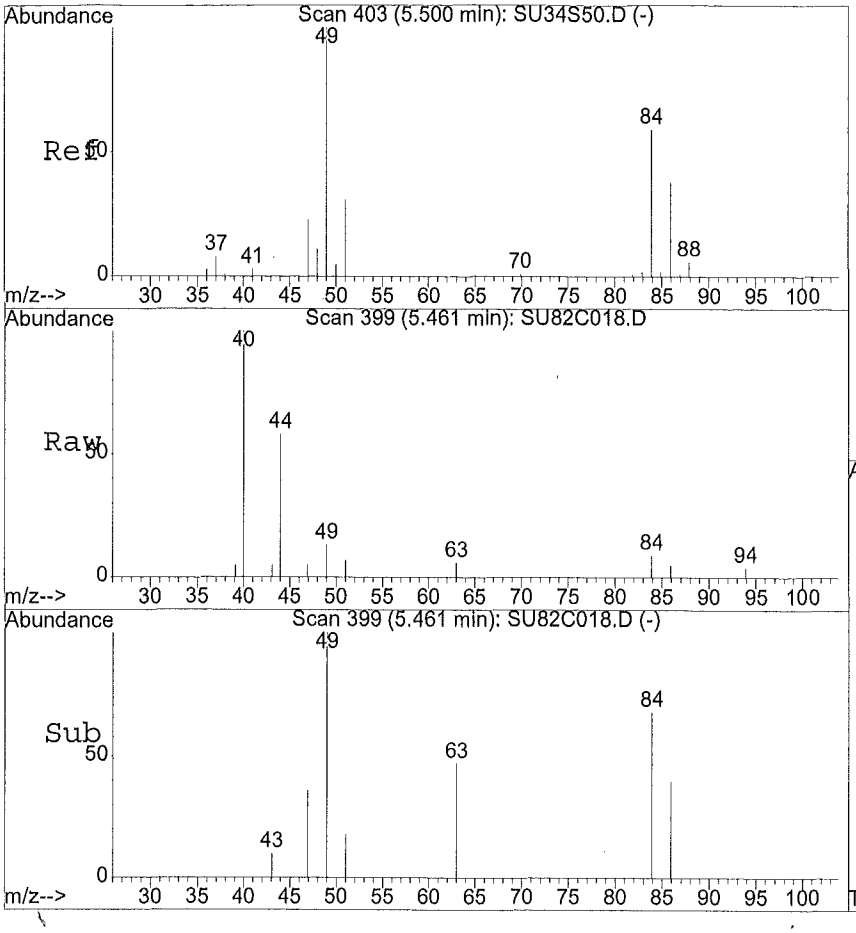
Quant Time: Jun 10 0:41 2015 Quant Results File: SCLPSS.RES

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	386693	13.67 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	3355	0.27 ug/Kg	73
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

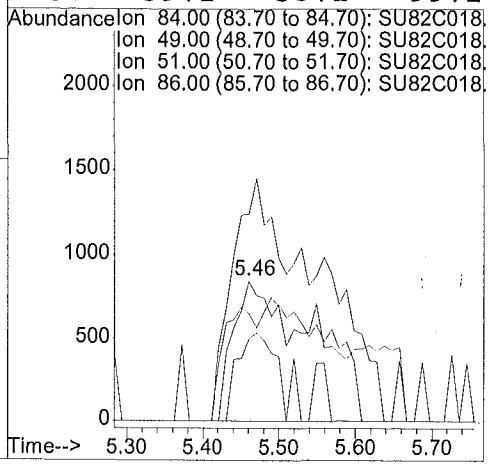
00191

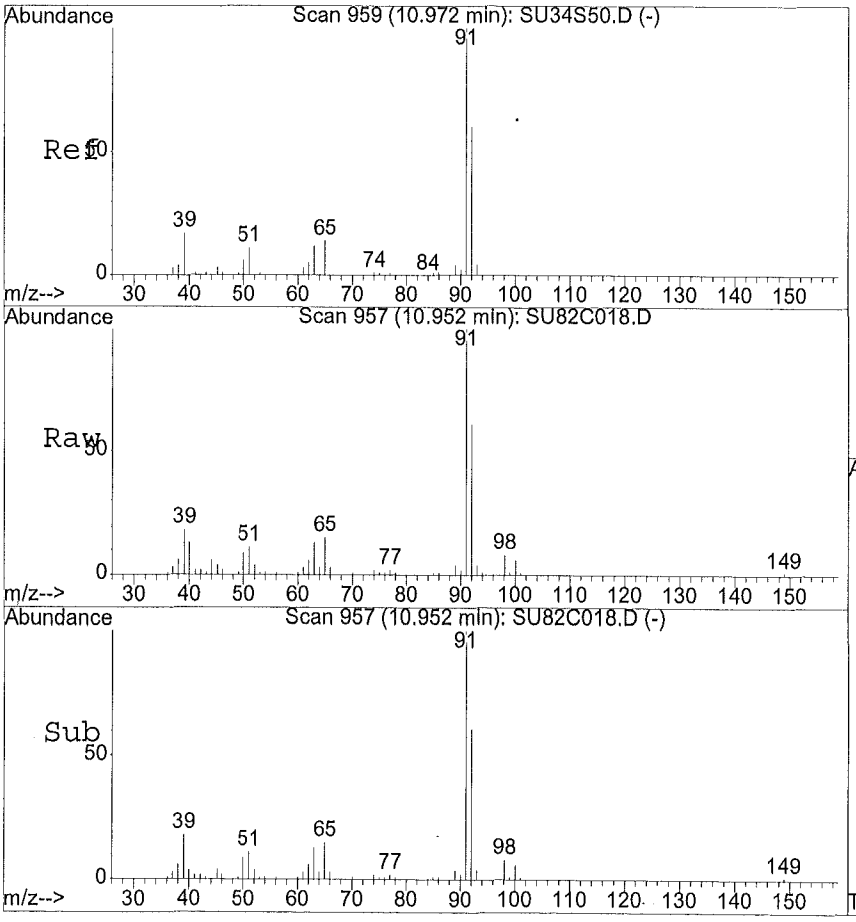


#16
Methylene chloride
Concen: 0.53 ug/Kg
RT: 5.46 min Scan# 399
Delta R.T. -0.04 min
Lab File: SU82C018.D
Acq: 06/09/2015 18:09

Tgt Ion:84 Resp: 6295

Ion	Ratio	Lower	Upper
84	100		
49	184.0	85.4	256.1
51	90.8	26.8	80.4#
86	39.2	33.1	99.2

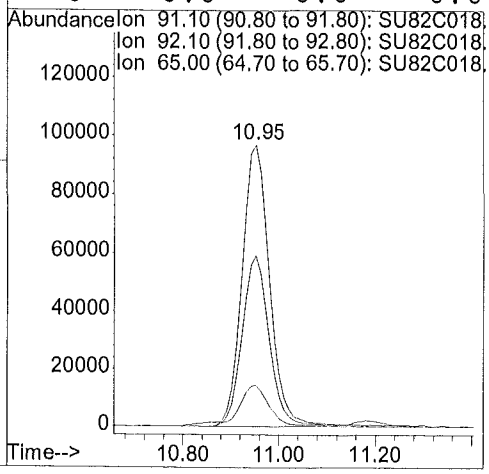


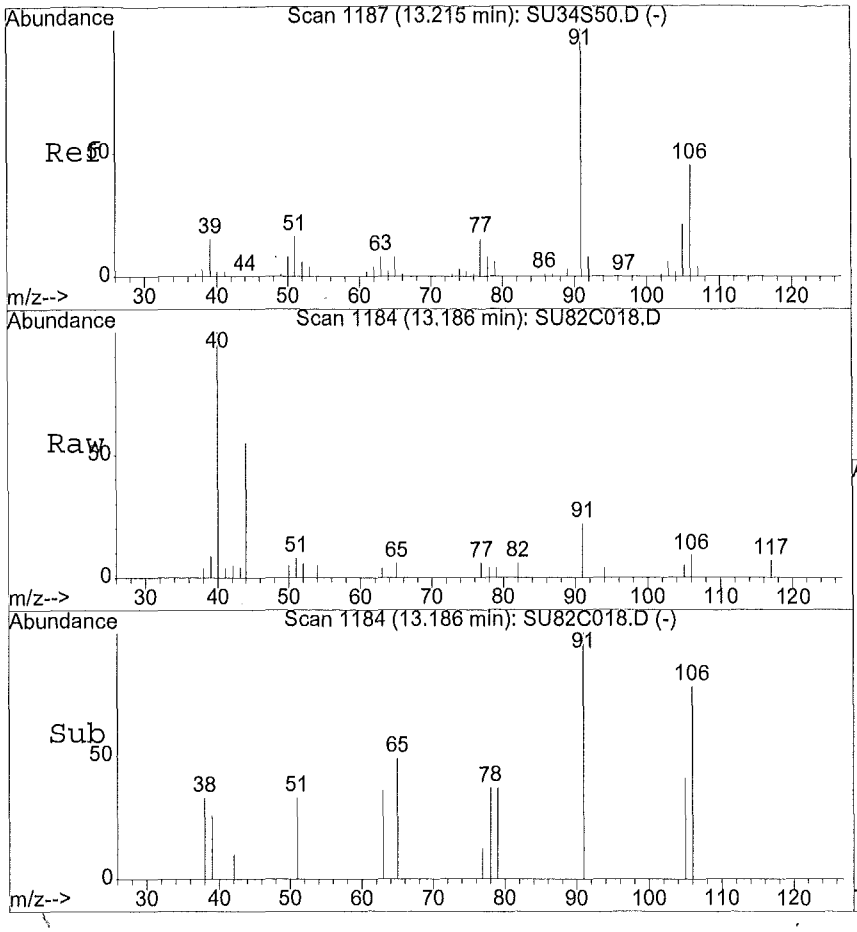


#48
Toluene
Concen: 13.67 ug/Kg
RT: 10.95 min Scan# 957
Delta R.T. -0.02 min
Lab File: SU82C018.D
Acq: 06/09/2015 18:09

Tgt Ion:91.1 Resp: 386693

Ion	Ratio	Lower	Upper
91	100		
92	60.1	48.2	72.2
65	16.9	11.7	17.5
0	0.0	0.0	0.0

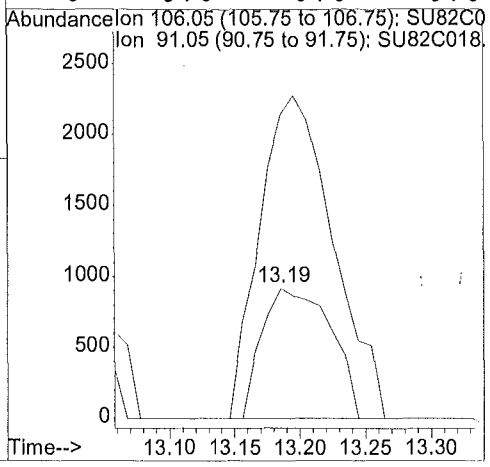




#56
m,p-Xylene
Concen: 0.27 ug/Kg
RT: 13.19 min Scan# 1184
Delta R.T. -0.03 min
Lab File: SU82C018.D
Acq: 06/09/2015 18:09

Tgt Ion:106.05 Resp: 3355

Ion	Ratio	Lower	Upper
106	100		
91	264.1	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.

F9M38

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542019

Sample wt/vol: 4.71 (g/mL) g Lab File ID: SU83C019

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 12. Date Analyzed: 06/09/2015

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	0.43	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.

F9M38

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542019

Sample wt/vol: 4.71 (g/mL) g Lab File ID: SU83C019

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 12. Date Analyzed: 06/09/2015

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	9.0	
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	0.25	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.
F9M38

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542019
Sample wt/vol: 4.71 (g/mL) g Lab File ID: SU83C019
Level: (TRACE or LOW/MED) LOW Date Received: 06/03/2015
% Moisture: not dec. 12. Date Analyzed: 06/09/2015
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\09JUN15S\SU83C019.D
Acq Time : 06/09/2015 18:41
Sample : 1515542019 F9M38
Misc : 1515542

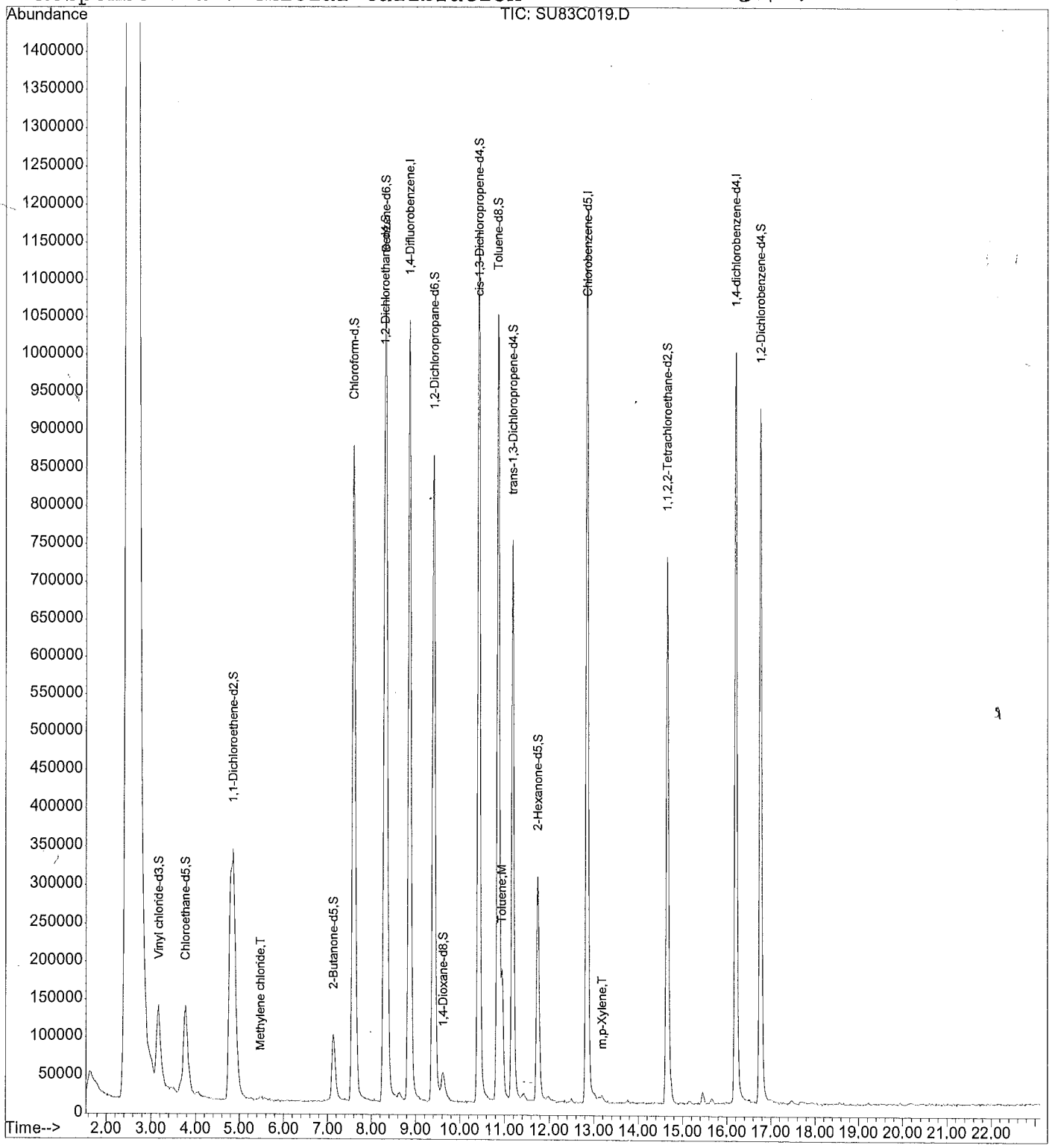
Operator: CQC
Inst : 5972-S
Multiplr: 1.00

Quant Time: Jun 10 0:42 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

6.10.15



00190

Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU83C019.D
Acq Time : 06/09/2015 18:41 Operator: CQC
Sample : 1515542019 F9M38 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 10 0:42 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	1620634	50.00 ug/Kg	122.77
30) Chlorobenzene-d5	12.85	117	1130167	50.00 ug/Kg	105.58
62) 1,4-dichlorobenzene-d4	16.20	152	471875	50.00 ug/Kg	77.56
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.16	65	452025	43.71 ug/Kg	87.42%
8) Chloroethane-d5	3.76	69	438191	44.53 ug/Kg	89.06%
11) 1,1-Dichloroethene-d2	4.85	63	1172214	34.38 ug/Kg	68.75%
22) 2-Butanone-d5	7.13	46	304097	108.33 ug/Kg	108.33%
25) Chloroform-d	7.59	84	1552141	46.47 ug/Kg	92.94%
27) 1,2-Dichloroethane-d4	8.29	65	764142	50.05 ug/Kg	100.10%
29) 1,4-Dioxane-d8	9.63	96	59691	1263.43 ug/Kg	126.34%
35) Benzene-d6	8.33	84	1544710	55.58 ug/Kg	111.16%
39) 1,2-Dichloropropane-d6	9.40	67	744684	54.40 ug/Kg	108.80%
42) cis-1,3-Dichloropropene-d4	10.43	79	1236100	53.90 ug/Kg	107.80%
44) trans-1,3-Dichloropropene-	11.18	79	739922	55.96 ug/Kg	111.91%
49) Toluene-d8	10.85	98	1333071	53.02 ug/Kg	106.04%
52) 2-Hexanone-d5	11.75	63	213986	122.10 ug/Kg	122.10%
61) 1,1,2,2-Tetrachloroethane-	14.65	84	705017	49.94 ug/Kg	99.88%
67) 1,2-Dichlorobenzene-d4	16.76	152	424805	46.96 ug/Kg	93.92%
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	0.00	43		Not Detected	
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.48	84	3988	0.35 ug/Kg#	48
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

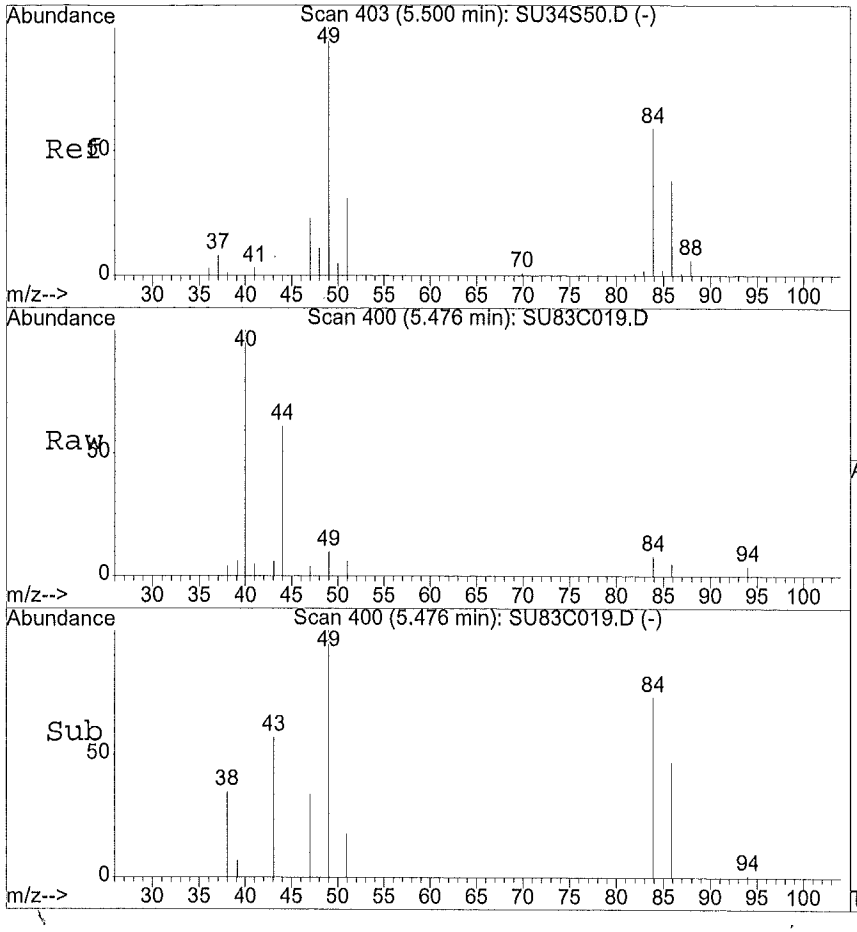
Data File : D:\HPCHEM\1\DATA\09JUN15S\SU83C019.D
Acq Time : 06/09/2015 18:41 Operator: CQC
Sample : 1515542019 F9M38 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 10 0:42 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	201826	7.42 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	2515	0.21 ug/Kg	81
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	

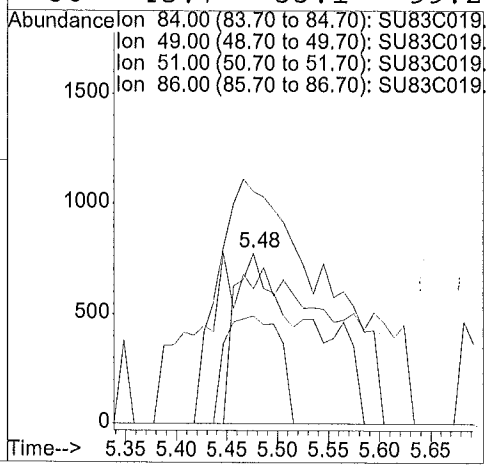
(#) = qualifier out of range (m) = manual integration

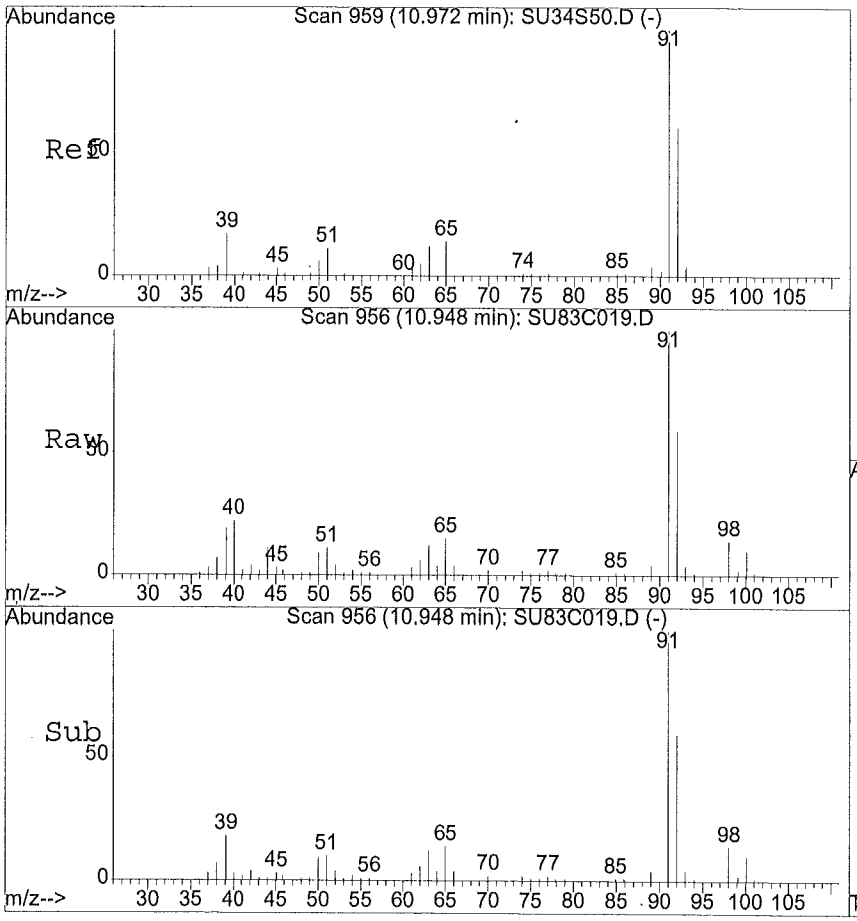


#16
Methylene chloride
Concen: 0.35 ug/Kg
RT: 5.48 min Scan# 400
Delta R.T. -0.02 min
Lab File: SU83C019.D
Acq: 06/09/2015 18:41

Tgt Ion:84 Resp: 3988

Ion	Ratio	Lower	Upper
84	100		
49	196.9	85.4	256.1
51	189.9	26.8	80.4#
86	45.7	33.1	99.2

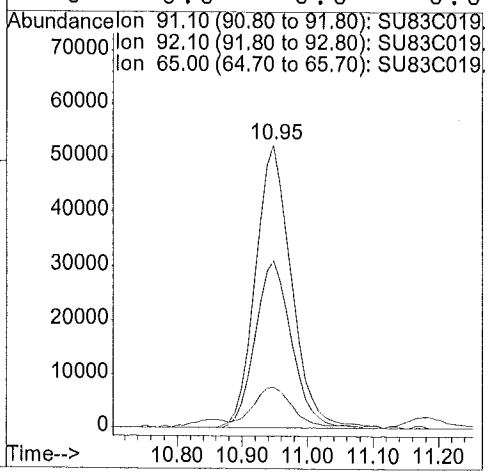


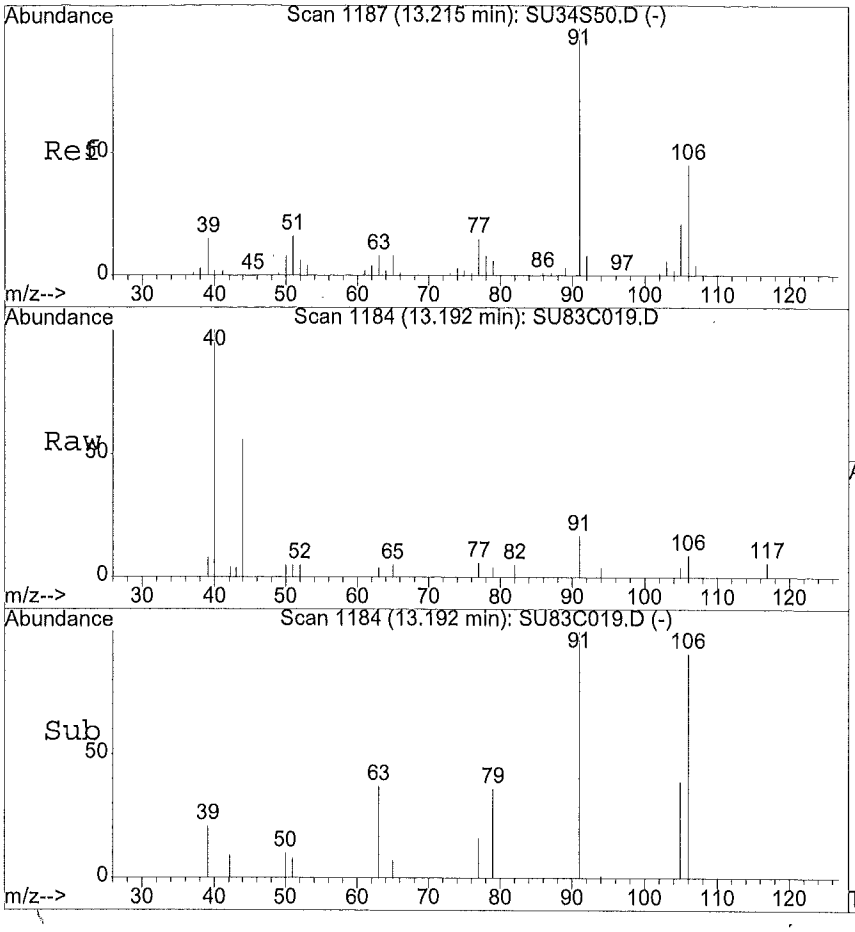


#48
Toluene
Concen: 7.42 ug/Kg
RT: 10.95 min Scan# 956
Delta R.T. -0.02 min
Lab File: SU83C019.D
Acq: 06/09/2015 18:41

Tgt Ion:91.1 Resp: 201826

Ion	Ratio	Lower	Upper
91	100		
92	60.1	48.2	72.2
65	19.4	11.7	17.5#
0	0.0	0.0	0.0

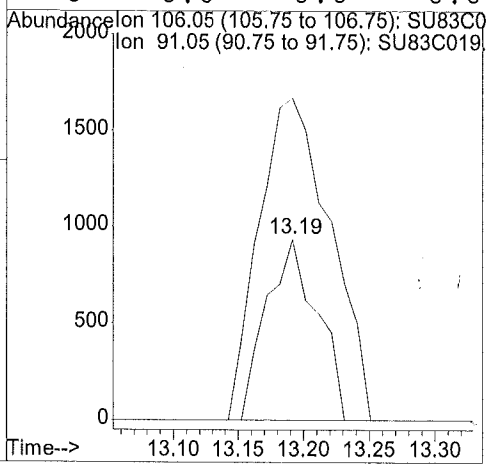




#56
m,p-Xylene
Concen: 0.21 ug/Kg
RT: 13.19 min Scan# 1184
Delta R.T. -0.02 min
Lab File: SU83C019.D
Acq: 06/09/2015 18:41

Tgt Ion:106.05 Resp: 2515

Ion	Ratio	Lower	Upper
106	100		
91	250.9	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.

F9M39

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542020

Sample wt/vol: 4.18 (g/mL) g Lab File ID: SU84C020

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 13. Date Analyzed: 06/09/2015

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	6.8	U
74-87-3	Chloromethane	6.8	U
75-01-4	Vinyl chloride	6.8	U
74-83-9	Bromomethane	6.8	U
75-00-3	Chloroethane	6.8	U
75-69-4	Trichlorofluoromethane	6.8	U
75-35-4	1,1-Dichloroethene	6.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.8	U
67-64-1	Acetone	14.	U
75-15-0	Carbon disulfide	6.8	U
79-20-9	Methyl acetate	6.8	U
75-09-2	Methylene chloride	6.8	U
156-60-5	trans-1,2-Dichloroethene	6.8	U
1634-04-4	Methyl tert-butyl ether	6.8	U
75-34-3	1,1-Dichloroethane	6.8	U
156-59-2	cis-1,2-Dichloroethene	6.8	U
78-93-3	2-Butanone	14.	U
74-97-5	Bromochloromethane	6.8	U
67-66-3	Chloroform	6.8	U
71-55-6	1,1,1-Trichloroethane	6.8	U
110-82-7	Cyclohexane	6.8	U
56-23-5	Carbon tetrachloride	6.8	U
71-43-2	Benzene	6.8	U
107-06-2	1,2-Dichloroethane	6.8	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.

F9M39

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542020

Sample wt/vol: 4.18 (g/mL) g Lab File ID: SU84C020

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 13. Date Analyzed: 06/09/2015

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	6.8	U
108-87-2	Methylcyclohexane	6.8	U
78-87-5	1,2-Dichloropropane	6.8	U
75-27-4	Bromodichloromethane	6.8	U
10061-01-5	cis-1,3-Dichloropropene	6.8	U
108-10-1	4-Methyl-2-Pentanone	14.	U
108-88-3	Toluene	10.	
10061-02-6	trans-1,3-Dichloropropene	6.8	U
79-00-5	1,1,2-Trichloroethane	6.8	U
127-18-4	Tetrachloroethene	6.8	U
591-78-6	2-Hexanone	14.	U
124-48-1	Dibromochloromethane	6.8	U
106-93-4	1,2-Dibromoethane	6.8	U
108-90-7	Chlorobenzene	6.8	U
100-41-4	Ethylbenzene	6.8	U
95-47-6	o-Xylene	6.8	U
179601-23-1	m,p-Xylene	0.33	J
100-42-5	Styrene	6.8	U
75-25-2	Bromoform	6.8	U
98-82-8	Isopropylbenzene	6.8	U
79-34-5	1,1,2,2-Tetrachloroethane	6.8	U
541-73-1	1,3-Dichlorobenzene	6.8	U
106-46-7	1,4-Dichlorobenzene	6.8	U
95-50-1	1,2-Dichlorobenzene	6.8	U
96-12-8	1,2-Dibromo-3-chloropropane	6.8	U
120-82-1	1,2,4-Trichlorobenzene	6.8	U
87-61-6	1,2,3-Trichlorobenzene	6.8	U

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

EPA SAMPLE NO.
F9M39

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542020
Sample wt/vol: 4.18 (g/mL) g Lab File ID: SU84C020
Level: (TRACE or LOW/MED) LOW Date Received: 06/03/2015
% Moisture: not dec. 13. Date Analyzed: 06/09/2015
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.

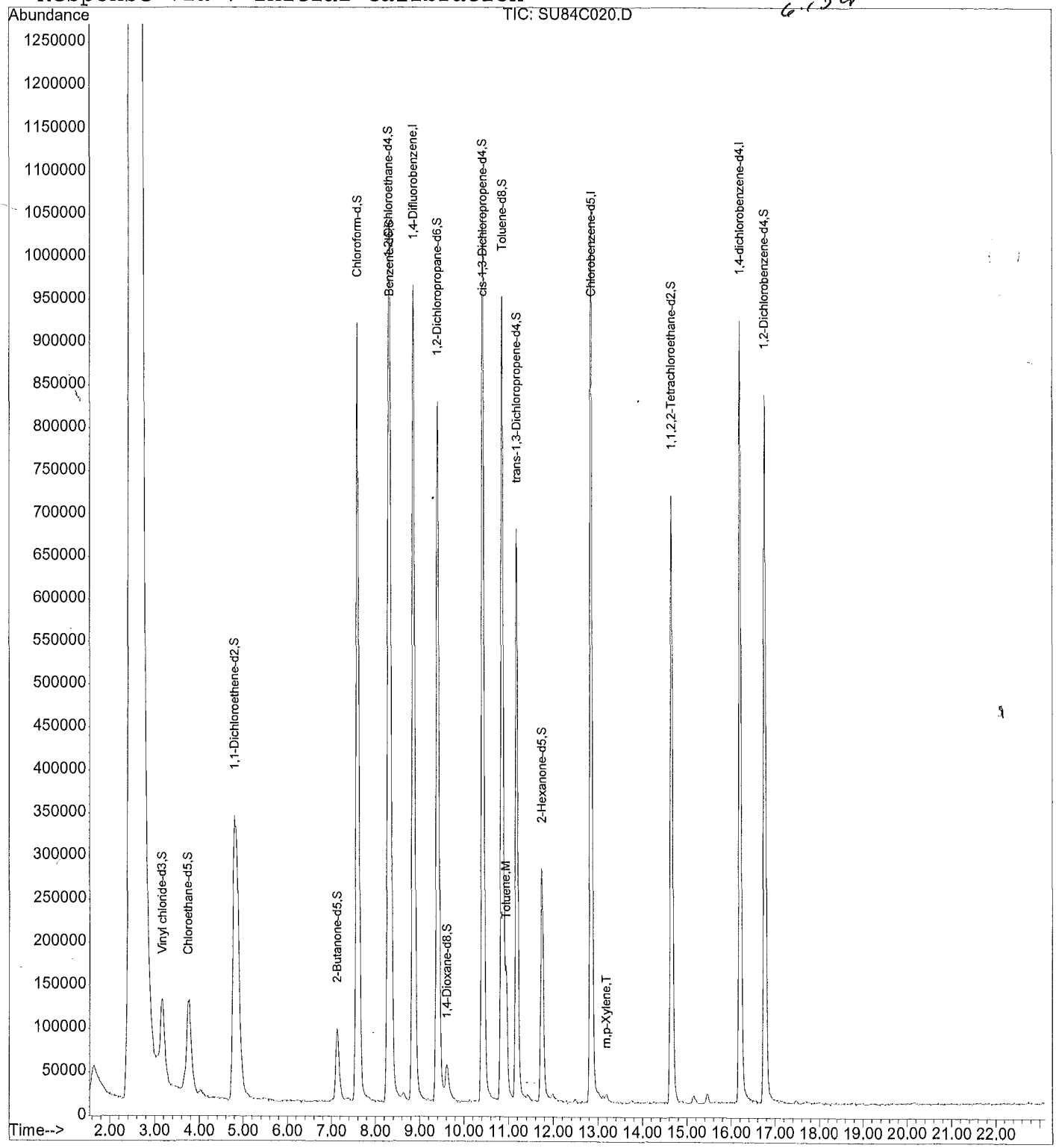
Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU84C020.D
Acq Time : 06/09/2015 19:13 Operator: CQC
Sample : 1515542020 F9M39 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 10 0:42 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

6.12.15



:09199

Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU84C020.D
Acq Time : 06/09/2015 19:13 Operator: CQC
Sample : 1515542020 F9M39 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 10 0:42 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	1500484	50.00 ug/Kg	113.66
30) Chlorobenzene-d5	12.84	117	1008084	50.00 ug/Kg	94.18
62) 1,4-dichlorobenzene-d4	16.20	152	419354	50.00 ug/Kg	68.93
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.17	65	420905	43.96 ug/Kg	87.92%
8) Chloroethane-d5	3.75	69	424730	46.62 ug/Kg	93.24%
11) 1,1-Dichloroethene-d2	4.81	63	1099996	34.84 ug/Kg	69.68%
22) 2-Butanone-d5	7.13	46	283315	109.01 ug/Kg	109.01%
25) Chloroform-d	7.59	84	1469456	47.52 ug/Kg	95.03%
27) 1,2-Dichloroethane-d4	8.29	65	751745	53.18 ug/Kg	106.36%
29) 1,4-Dioxane-d8	9.62	96	63459	1450.74 ug/Kg	145.07%
35) Benzene-d6	8.33	84	1449139	58.46 ug/Kg	116.91%
39) 1,2-Dichloropropane-d6	9.40	67	705777	57.80 ug/Kg	115.61%
42) cis-1,3-Dichloropropene-d4	10.42	79	1125373	55.02 ug/Kg	110.03%
44) trans-1,3-Dichloropropene-	11.18	79	684603	58.04 ug/Kg	116.09%
49) Toluene-d8	10.86	98	1200685	53.54 ug/Kg	107.07%
52) 2-Hexanone-d5	11.74	63	190853	122.08 ug/Kg	122.08%
61) 1,1,2,2-Tetrachloroethane-	14.64	84	691808	54.94 ug/Kg	109.88%
67) 1,2-Dichlorobenzene-d4	16.76	152	380228	47.30 ug/Kg	94.60%
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	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

00199

Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU84C020.D
Acq Time : 06/09/2015 19:13 Operator: CQC
Sample : 1515542020 F9M39 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

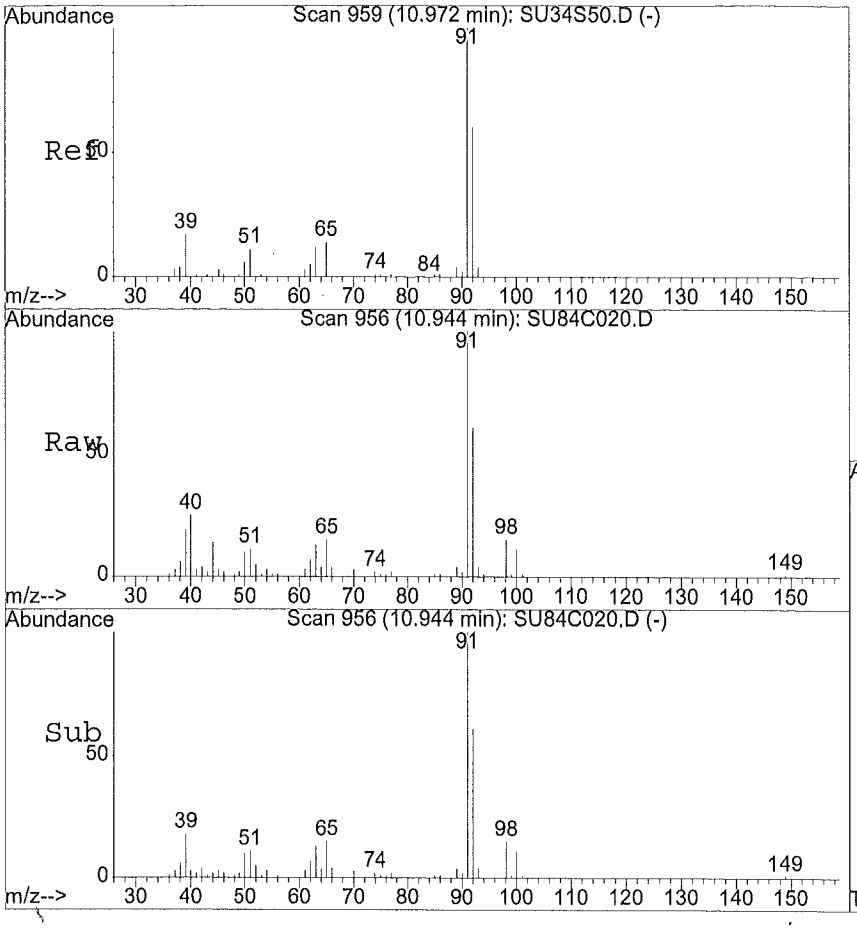
Quant Time: Jun 10 0:42 2015 Quant Results File: SCLPSS.RES

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	177906	7.33 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	13.17	106	2580	0.24 ug/Kg	76
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

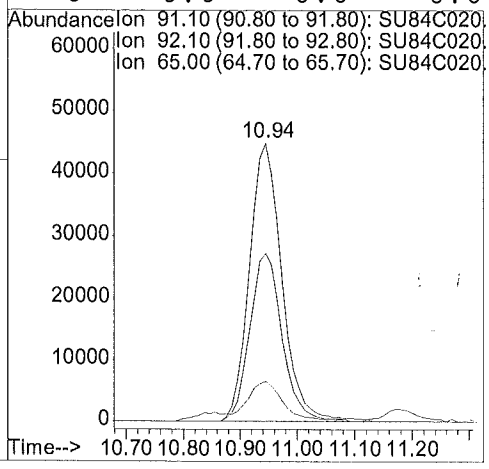
00209

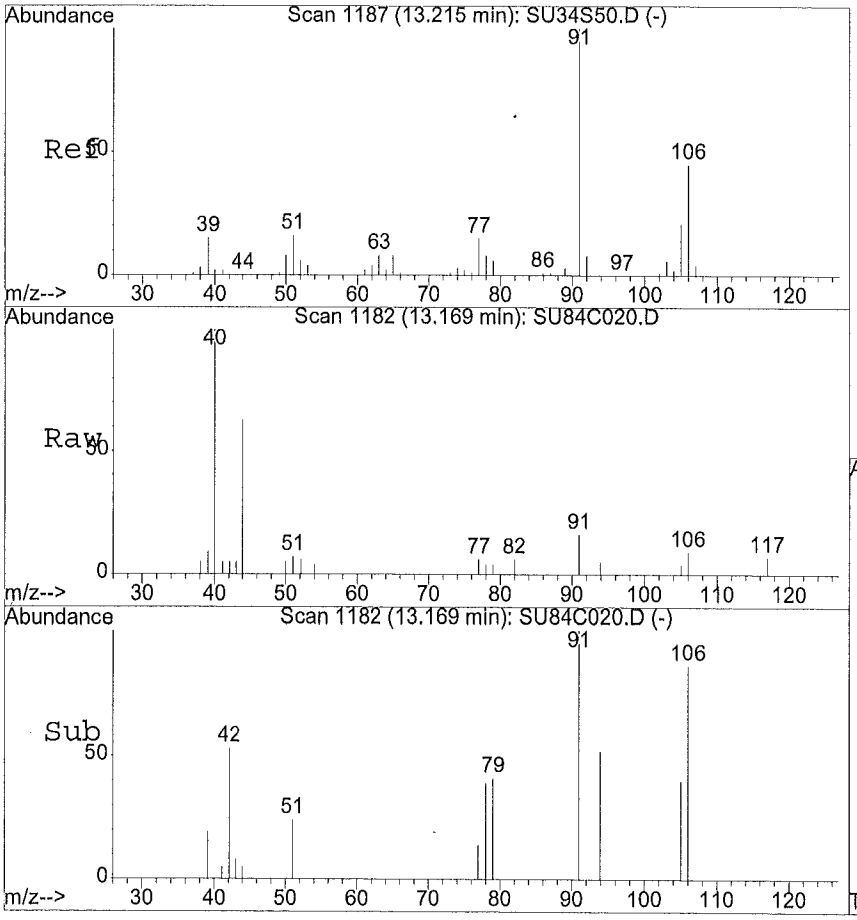


#48
Toluene
Concen: 7.33 ug/Kg
RT: 10.94 min Scan# 956
Delta R.T. -0.03 min
Lab File: SU84C020.D
Acq: 06/09/2015 19:13

Tgt Ion:91.1 Resp: 177906

Ion	Ratio	Lower	Upper
91	100		
92	59.8	48.2	72.2
65	19.2	11.7	17.5#
0	0.0	0.0	0.0

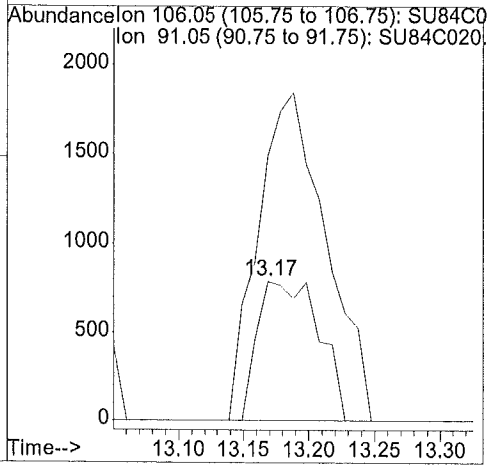




#56
m,p-Xylene
Concen: 0.24 ug/Kg
RT: 13.17 min Scan# 1182
Delta R.T. -0.05 min
Lab File: SU84C020.D
Acq: 06/09/2015 19:13

Tgt Ion:106.05 Resp: 2580

Ion	Ratio	Lower	Upper
106	100		
91	258.6	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.

F9M39RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542020RE

Sample wt/vol: 4.74 (g/mL) g Lab File ID: SU95R020

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 13. Date Analyzed: 06/10/2015

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	6.0	U
74-87-3	Chloromethane	6.0	U
75-01-4	Vinyl chloride	6.0	U
74-83-9	Bromomethane	6.0	U
75-00-3	Chloroethane	6.0	U
75-69-4	Trichlorofluoromethane	6.0	U
75-35-4	1,1-Dichloroethene	6.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.0	U
67-64-1	Acetone	18.	
75-15-0	Carbon disulfide	6.0	U
79-20-9	Methyl acetate	6.0	U
75-09-2	Methylene chloride	0.63	JB
156-60-5	trans-1,2-Dichloroethene	6.0	U
1634-04-4	Methyl tert-butyl ether	6.0	U
75-34-3	1,1-Dichloroethane	6.0	U
156-59-2	cis-1,2-Dichloroethene	6.0	U
78-93-3	2-Butanone	12.	U
74-97-5	Bromochloromethane	6.0	U
67-66-3	Chloroform	6.0	U
71-55-6	1,1,1-Trichloroethane	6.0	U
110-82-7	Cyclohexane	6.0	U
56-23-5	Carbon tetrachloride	6.0	U
71-43-2	Benzene	6.0	U
107-06-2	1,2-Dichloroethane	6.0	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.

F9M39RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542020RE

Sample wt/vol: 4.74 (g/mL) g Lab File ID: SU95R020

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 13. Date Analyzed: 06/10/2015

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	6.0	U
108-87-2	Methylcyclohexane	6.0	U
78-87-5	1,2-Dichloropropane	6.0	U
75-27-4	Bromodichloromethane	6.0	U
10061-01-5	cis-1,3-Dichloropropene	6.0	U
108-10-1	4-Methyl-2-Pentanone	12.	U
108-88-3	Toluene	20.	
10061-02-6	trans-1,3-Dichloropropene	6.0	U
79-00-5	1,1,2-Trichloroethane	6.0	U
127-18-4	Tetrachloroethene	6.0	U
591-78-6	2-Hexanone	12.	U
124-48-1	Dibromochloromethane	6.0	U
106-93-4	1,2-Dibromoethane	6.0	U
108-90-7	Chlorobenzene	6.0	U
100-41-4	Ethylbenzene	6.0	U
95-47-6	o-Xylene	6.0	U
179601-23-1	m,p-Xylene	6.0	U
100-42-5	Styrene	6.0	U
75-25-2	Bromoform	6.0	U
98-82-8	Isopropylbenzene	6.0	U
79-34-5	1,1,2,2-Tetrachloroethane	6.0	U
541-73-1	1,3-Dichlorobenzene	6.0	U
106-46-7	1,4-Dichlorobenzene	6.0	U
95-50-1	1,2-Dichlorobenzene	6.0	U
96-12-8	1,2-Dibromo-3-chloropropane	6.0	U
120-82-1	1,2,4-Trichlorobenzene	6.0	U
87-61-6	1,2,3-Trichlorobenzene	6.0	U

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

EPA SAMPLE NO.

F9M39RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542020RE

Sample wt/vol: 4.74 (g/mL) g Lab File ID: SU95R020

Level: (TRACE or LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 13. Date Analyzed: 06/10/2015

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\09JUN15S\SU95R020.D
Acq Time : 06/10/2015 00:53
Sample : 1515542020RE F9M39RE
Misc : 1515542

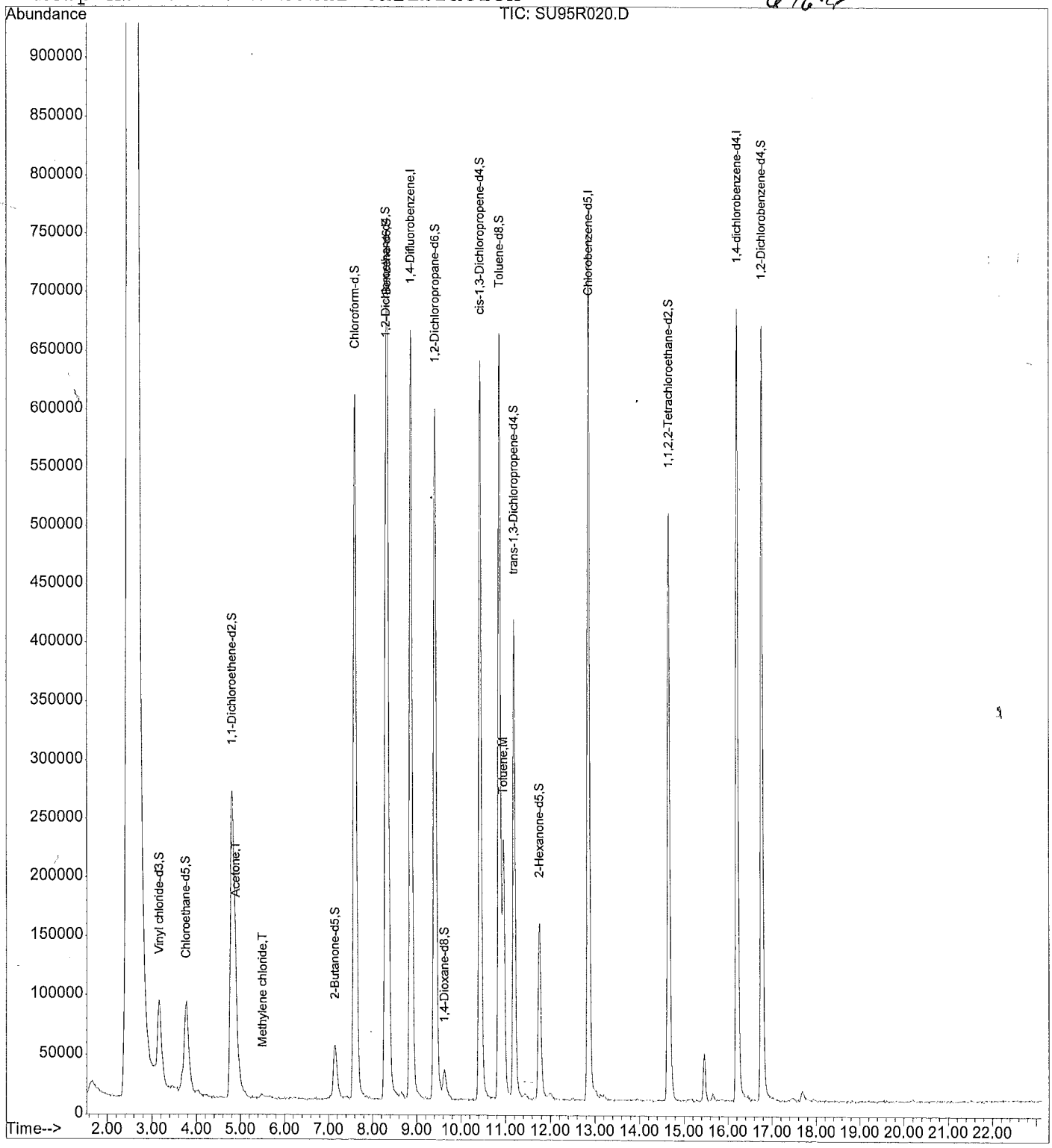
Operator: CQC
Inst : 5972-S
Multiplr: 1.00

Quant Time: Jun 16 23:49 2015

Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 16 17:27:26 2015
Response via : Initial Calibration

6/6/15



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Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU95R020.D
Acq Time : 06/10/2015 00:53 Operator: CQC
Sample : 1515542020RE F9M39RE Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 16 23:49 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 22:53:16 2015
Response via : Initial Calibration
DataAcq Meth : SCLPSS

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	8.87	114	1013267	50.00 ug/Kg	76.76
30) Chlorobenzene-d5	12.85	117	711634	50.00 ug/Kg	66.48
62) 1,4-dichlorobenzene-d4	16.21	152	312794	50.00 ug/Kg	51.41
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.17	65	299991	46.40 ug/Kg	92.79%
8) Chloroethane-d5	3.76	69	294453	47.86 ug/Kg	95.72%
11) 1,1-Dichloroethene-d2	4.81	63	754387	35.38 ug/Kg	70.77%
22) 2-Butanone-d5	7.13	46	153421	87.41 ug/Kg	87.41%
25) Chloroform-d	7.61	84	1049982	50.28 ug/Kg	100.56%
27) 1,2-Dichloroethane-d4	8.29	65	539513	56.52 ug/Kg	113.04%
29) 1,4-Dioxane-d8	9.62	96	37905	1283.22 ug/Kg	128.32%
35) Benzene-d6	8.33	84	1007377	57.56 ug/Kg	115.13%
39) 1,2-Dichloropropane-d6	9.42	67	506728	58.79 ug/Kg	117.58%
42) cis-1,3-Dichloropropene-d4	10.43	79	670588	46.44 ug/Kg	92.88%
44) trans-1,3-Dichloropropene-	11.19	79	411954	49.48 ug/Kg	98.95%
49) Toluene-d8	10.86	98	819319	51.75 ug/Kg	103.50%
52) 2-Hexanone-d5	11.75	63	103423	93.72 ug/Kg	93.72%
61) 1,1,2,2-Tetrachloroethane-	14.66	84	520140	58.51 ug/Kg	117.02%
67) 1,2-Dichlorobenzene-d4	16.77	152	296860	49.51 ug/Kg	99.01%
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	28087	14.87 ug/Kg	86
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.49	84	3717	0.52 ug/Kg#	76
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

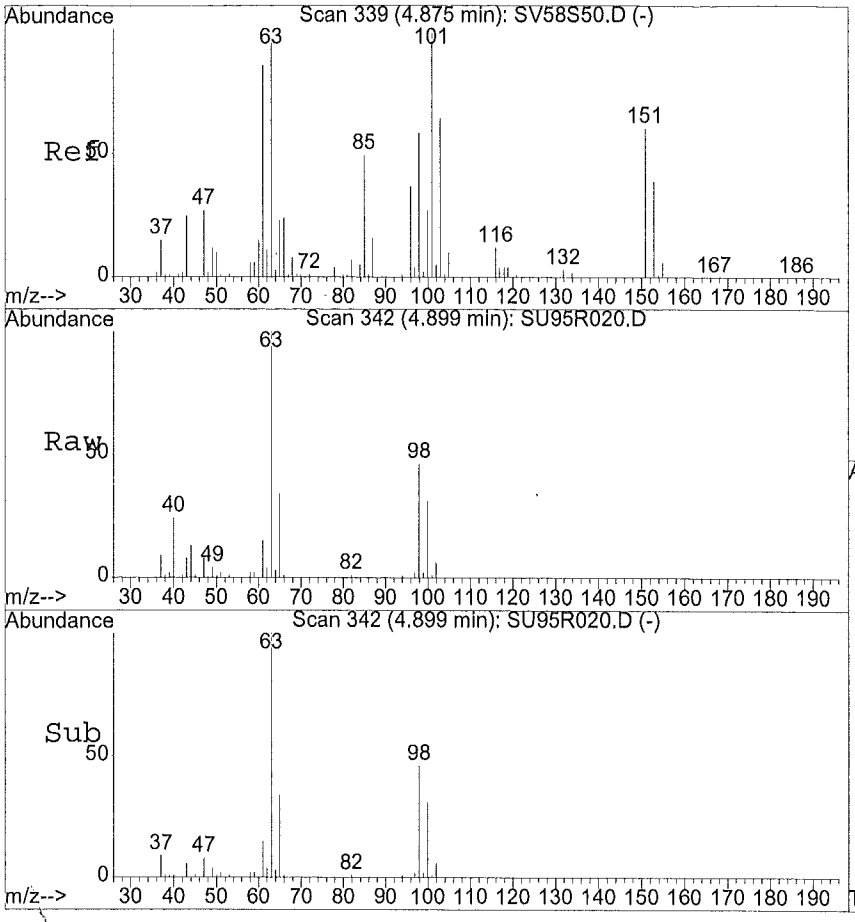
Data File : D:\HPCHEM\1\DATA\09JUN15S\SU95R020.D
Acq Time : 06/10/2015 00:53 Operator: CQC
Sample : 1515542020RE F9M39RE Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 16 23:49 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 22:53:16 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	283556	16.55 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	

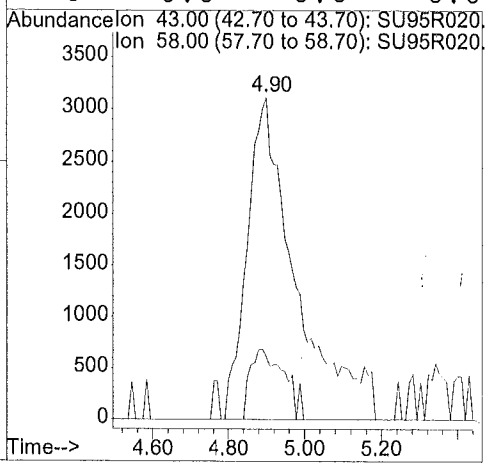
(#) = qualifier out of range (m) = manual integration

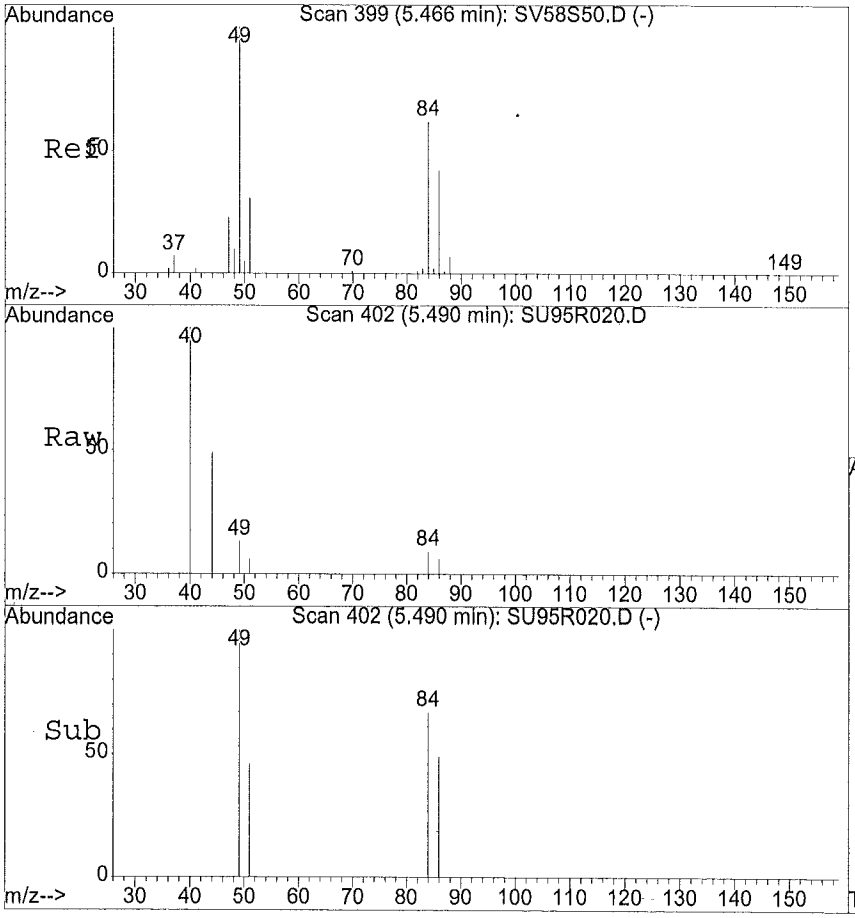


#13
Acetone
Concen: 14.87 ug/Kg
RT: 4.90 min Scan# 342
Delta R.T. 0.01 min
Lab File: SU95R020.D
Acq: 06/10/2015 00:53

Tgt Ion:43 Resp: 28087

Ion	Ratio	Lower	Upper
43	100		
58	15.1	10.9	32.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0

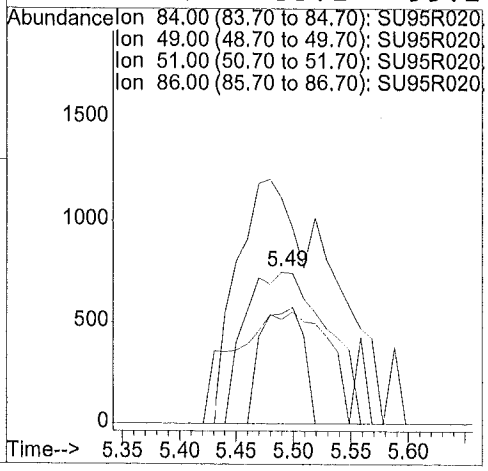


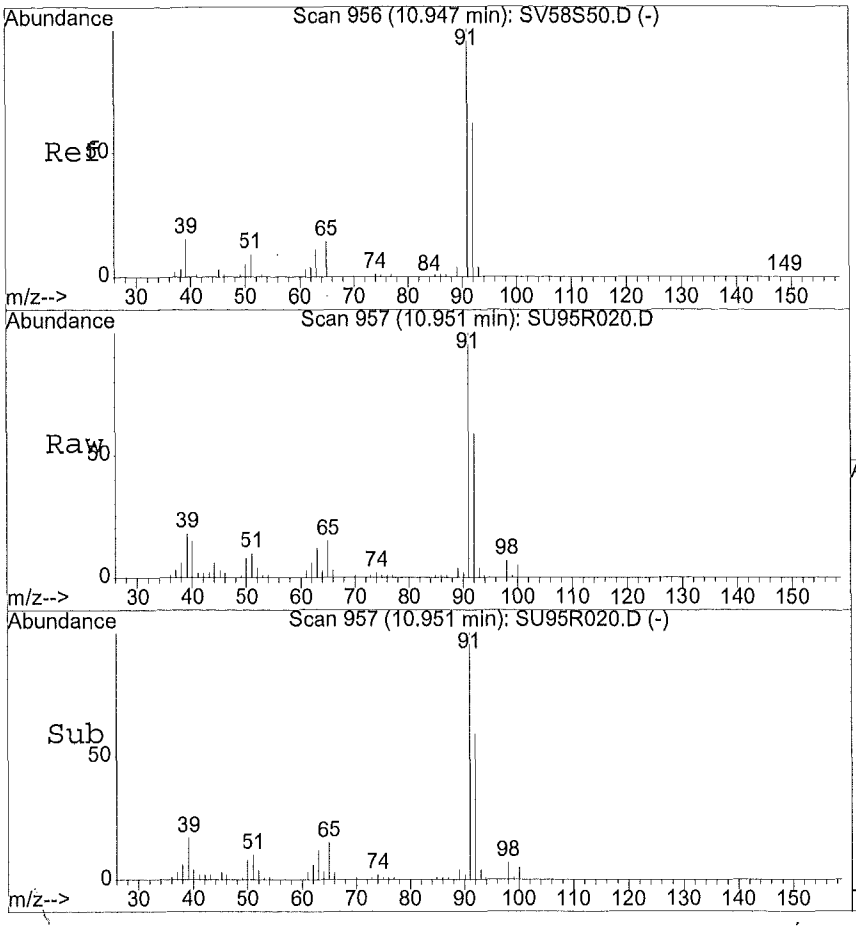


#16
Methylene chloride
Concen: 0.52 ug/Kg
RT: 5.49 min Scan# 402
Delta R.T. -0.01 min
Lab File: SU95R020.D
Acq: 06/10/2015 00:53

Tgt Ion:84 Resp: 3717

Ion	Ratio	Lower	Upper
84	100		
49	182.7	85.4	256.1
51	97.4	26.8	80.4#
86	40.0	33.1	99.2

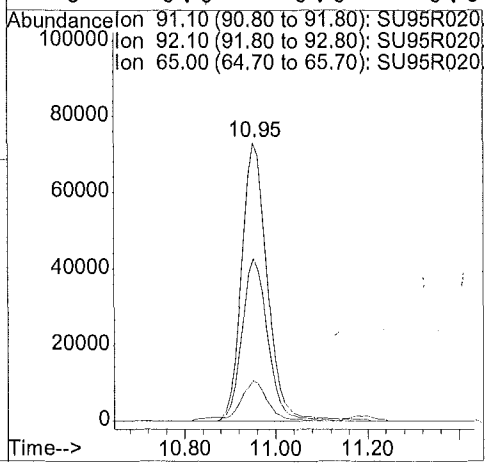




#48
Toluene
Concen: 16.55 ug/Kg
RT: 10.95 min Scan# 957
Delta R.T. -0.02 min
Lab File: SU95R020.D
Acq: 06/10/2015 00:53

Tgt Ion:91.1 Resp: 283556

Ion	Ratio	Lower	Upper
91	100		
92	58.7	48.2	72.2
65	16.1	11.7	17.5
0	0.0	0.0	0.0



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

EPA SAMPLE NO.

F9M40

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542021

Sample wt/vol: 5.40 (g/mL) g Lab File ID: SU85C021

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 13. Date Analyzed: 06/09/2015

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	5.3	U
74-87-3	Chloromethane	5.3	U
75-01-4	Vinyl chloride	5.3	U
74-83-9	Bromomethane	5.3	U
75-00-3	Chloroethane	5.3	U
75-69-4	Trichlorofluoromethane	5.3	U
75-35-4	1,1-Dichloroethene	5.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.3	U
67-64-1	Acetone	11.	U
75-15-0	Carbon disulfide	5.3	U
79-20-9	Methyl acetate	5.3	U
75-09-2	Methylene chloride	0.31	JB
156-60-5	trans-1,2-Dichloroethene	5.3	U
1634-04-4	Methyl tert-butyl ether	5.3	U
75-34-3	1,1-Dichloroethane	5.3	U
156-59-2	cis-1,2-Dichloroethene	5.3	U
78-93-3	2-Butanone	11.	U
74-97-5	Bromochloromethane	5.3	U
67-66-3	Chloroform	5.3	U
71-55-6	1,1,1-Trichloroethane	5.3	U
110-82-7	Cyclohexane	5.3	U
56-23-5	Carbon tetrachloride	5.3	U
71-43-2	Benzene	5.3	U
107-06-2	1,2-Dichloroethane	5.3	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.

F9M40

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542021

Sample wt/vol: 5.40 (g/mL) g Lab File ID: SU85C021

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 13. Date Analyzed: 06/09/2015

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	5.3	U
108-87-2	Methylcyclohexane	5.3	U
78-87-5	1,2-Dichloropropane	5.3	U
75-27-4	Bromodichloromethane	5.3	U
10061-01-5	cis-1,3-Dichloropropene	5.3	U
108-10-1	4-Methyl-2-Pentanone	11.	U
108-88-3	Toluene	2.2	J
10061-02-6	trans-1,3-Dichloropropene	5.3	U
79-00-5	1,1,2-Trichloroethane	5.3	U
127-18-4	Tetrachloroethene	5.3	U
591-78-6	2-Hexanone	11.	U
124-48-1	Dibromochloromethane	5.3	U
106-93-4	1,2-Dibromoethane	5.3	U
108-90-7	Chlorobenzene	5.3	U
100-41-4	Ethylbenzene	5.3	U
95-47-6	o-Xylene	5.3	U
179601-23-1	m,p-Xylene	0.56	J
100-42-5	Styrene	5.3	U
75-25-2	Bromoform	5.3	U
98-82-8	Isopropylbenzene	5.3	U
79-34-5	1,1,2,2-Tetrachloroethane	5.3	U
541-73-1	1,3-Dichlorobenzene	5.3	U
106-46-7	1,4-Dichlorobenzene	5.3	U
95-50-1	1,2-Dichlorobenzene	5.3	U
96-12-8	1,2-Dibromo-3-chloropropane	5.3	U
120-82-1	1,2,4-Trichlorobenzene	5.3	U
87-61-6	1,2,3-Trichlorobenzene	5.3	U

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

EPA SAMPLE NO.
F9M40

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542021
Sample wt/vol: 5.40 (g/mL) g Lab File ID: SU85C021
Level: (TRACE or LOW/MED) LOW Date Received: 06/03/2015
% Moisture: not dec. 13. Date Analyzed: 06/09/2015
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.

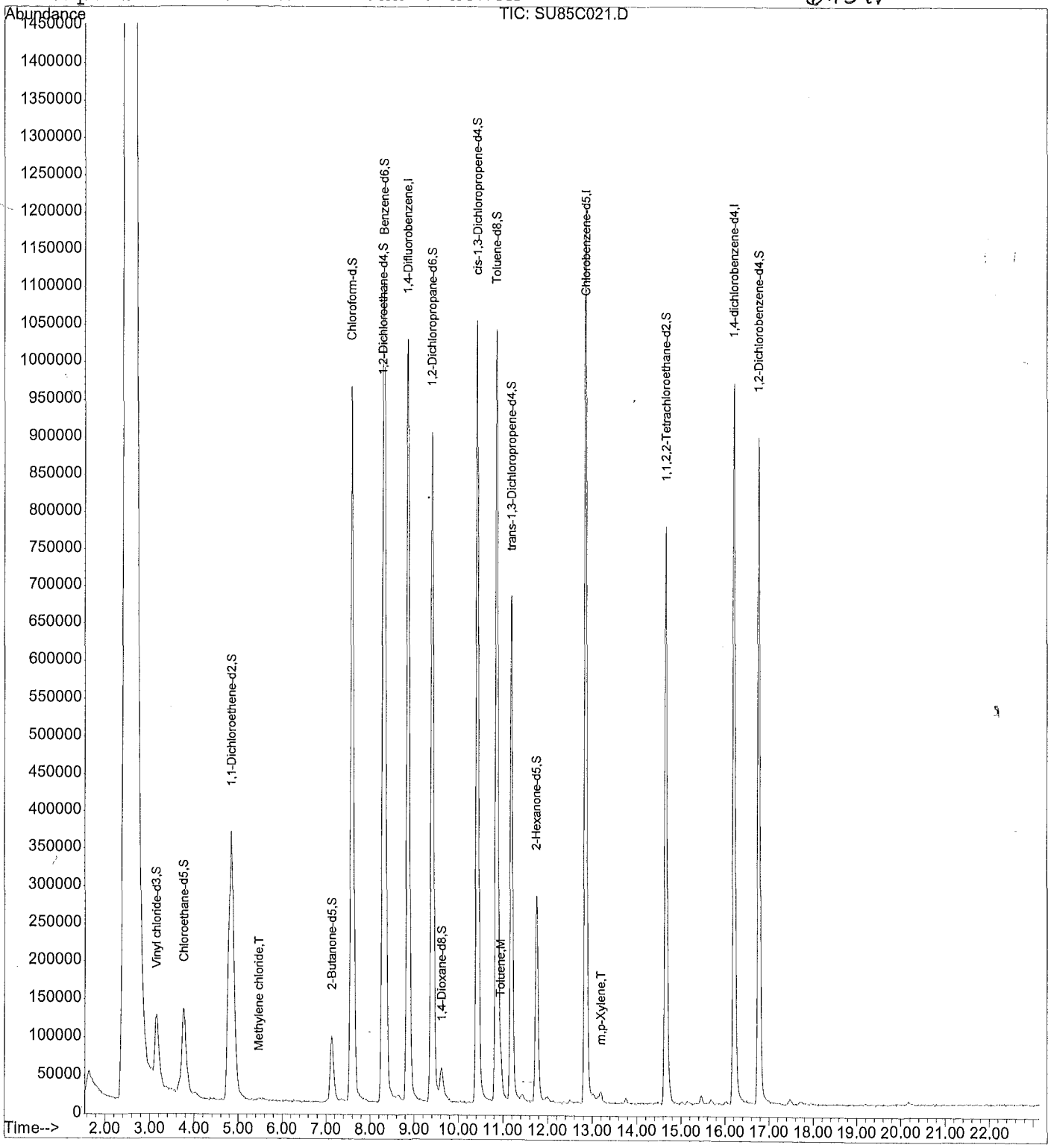
Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU85C021.D
Acq Time : 06/09/2015 19:45 Operator: CQC
Sample : 1515542021 F9M40 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 10 0:43 2015 Quant Results File: SCLPSS.RES

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

6.12.15



00213

Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU85C021.D
Acq Time : 06/09/2015 19:45 Operator: CQC
Sample : 1515542021 F9M40 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 10 0:43 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 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	1622507	50.00 ug/Kg	122.91
30) Chlorobenzene-d5	12.85	117	1140851	50.00 ug/Kg	106.58
62) 1,4-dichlorobenzene-d4	16.20	152	451636	50.00 ug/Kg	74.23
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.15	65	426271	41.17 ug/Kg	82.34%
8) Chloroethane-d5	3.76	69	424318	43.07 ug/Kg	86.14%
11) 1,1-Dichloroethene-d2	4.85	63	1111483	32.56 ug/Kg	65.12%
22) 2-Butanone-d5	7.12	46	298639	106.26 ug/Kg	106.26%
25) Chloroform-d	7.58	84	1554926	46.50 ug/Kg	93.00%
27) 1,2-Dichloroethane-d4	8.28	65	826668	54.08 ug/Kg	108.16%
29) 1,4-Dioxane-d8	9.62	96	69802	1475.74 ug/Kg	147.57%
35) Benzene-d6	8.32	84	1534564	54.70 ug/Kg	109.40%
39) 1,2-Dichloropropane-d6	9.40	67	775690	56.14 ug/Kg	112.27%
42) cis-1,3-Dichloropropene-d4	10.43	79	1123893	48.55 ug/Kg	97.10%
44) trans-1,3-Dichloropropene-	11.18	79	689684	51.67 ug/Kg	103.34%
49) Toluene-d8	10.86	98	1328667	52.35 ug/Kg	104.70%
52) 2-Hexanone-d5	11.75	63	195174	110.32 ug/Kg	110.32%
61) 1,1,2,2-Tetrachloroethane-	14.65	84	756968	53.12 ug/Kg	106.23%
67) 1,2-Dichlorobenzene-d4	16.76	152	411313	47.51 ug/Kg	95.01%
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	5.46	84	3282	0.29 ug/Kg#	46
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

00214

Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU85C021.D
Acq Time : 06/09/2015 19:45 Operator: CQC
Sample : 1515542021 F9M40 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

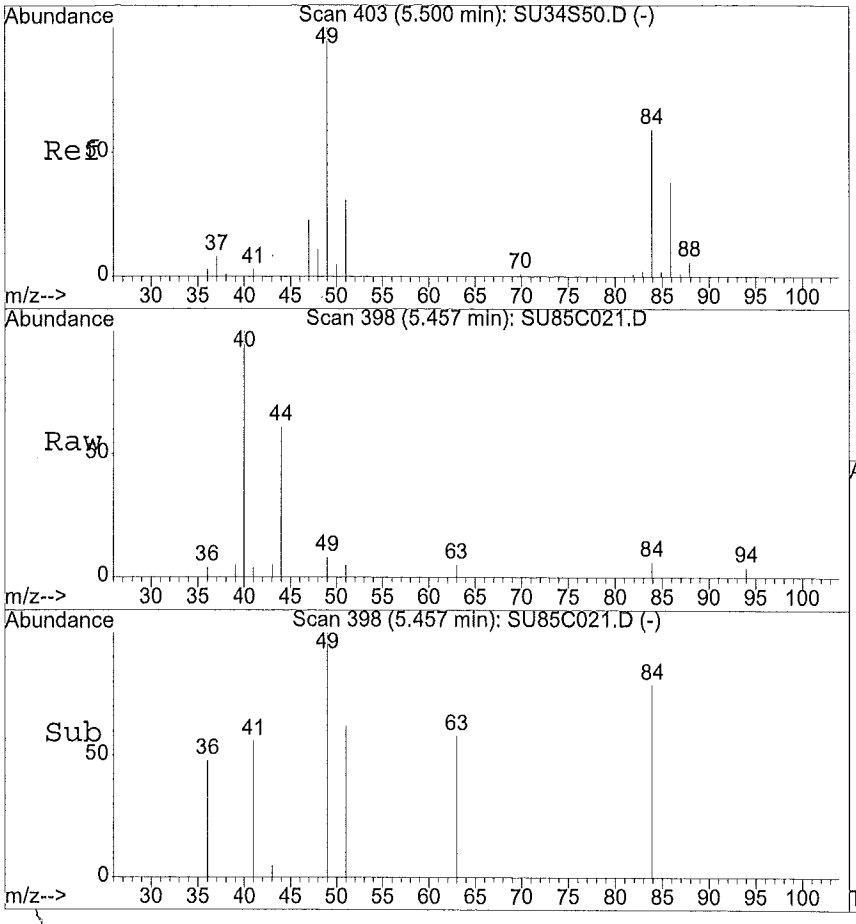
Quant Time: Jun 10 0:43 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 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	56965	2.07 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	6357	0.53 ug/Kg	100
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

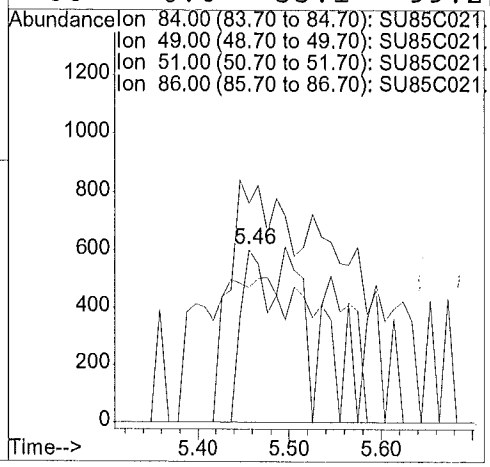
00215

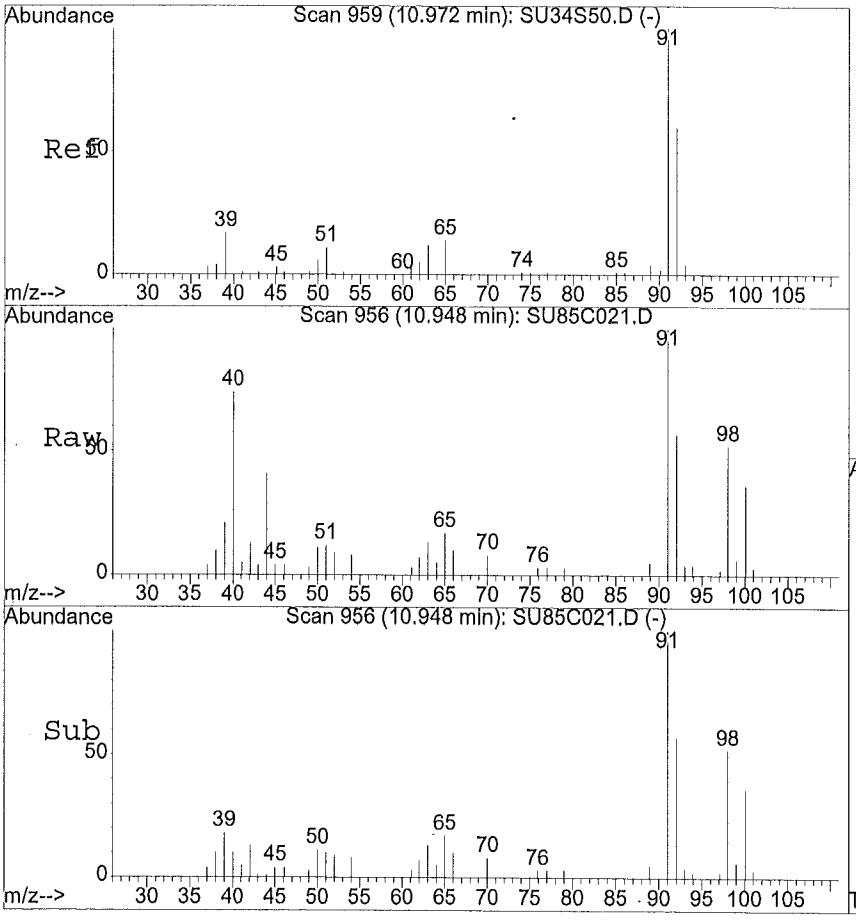


#16
Methylene chloride
Concen: 0.29 ug/Kg
RT: 5.46 min Scan# 398
Delta R.T. -0.04 min
Lab File: SU85C021.D
Acq: 06/09/2015 19:45

Tgt Ion:84 Resp: 3282

Ion	Ratio	Lower	Upper
84	100		
49	208.6	85.4	256.1
51	124.7	26.8	80.4#
86	0.0	33.1	99.2#

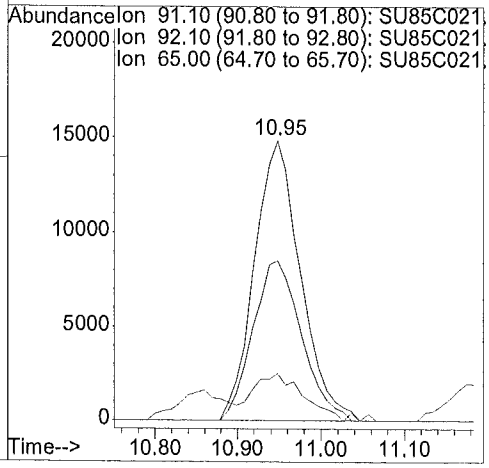


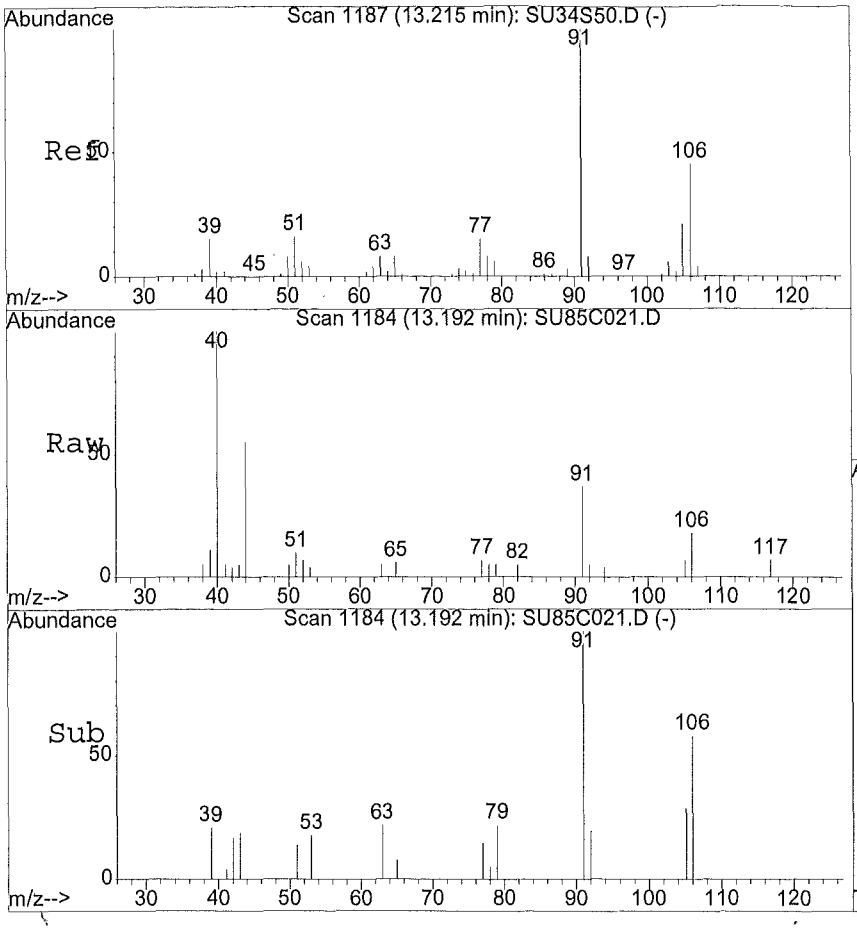


#48
Toluene
Concen: 2.07 ug/Kg
RT: 10.95 min Scan# 956
Delta R.T. -0.02 min
Lab File: SU85C021.D
Acq: 06/09/2015 19:45

Tgt Ion:91.1 Resp: 56965

Ion	Ratio	Lower	Upper
91	100		
92	60.5	48.2	72.2
65	19.1	11.7	17.5#
0	0.0	0.0	0.0

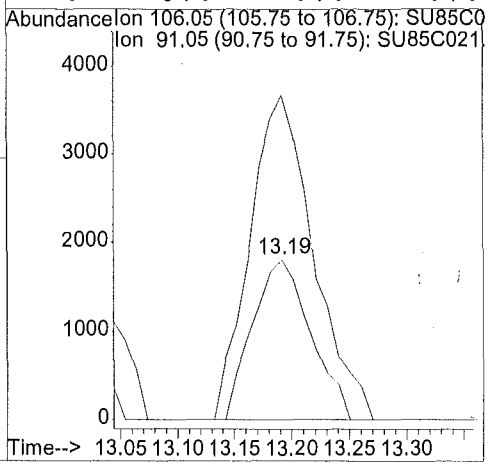




#56
m,p-Xylene
Concen: 0.53 ug/Kg
RT: 13.19 min Scan# 1184
Delta R.T. -0.02 min
Lab File: SU85C021.D
Acq: 06/09/2015 19:45

Tgt Ion:106.05 Resp: 6357

Ion	Ratio	Lower	Upper
106	100		
91	221.4	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.

F9M41

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542022

Sample wt/vol: 5.64 (g/mL) g Lab File ID: SU86C022

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 14. Date Analyzed: 06/09/2015

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	5.2	U
74-87-3	Chloromethane	5.2	U
75-01-4	Vinyl chloride	5.2	U
74-83-9	Bromomethane	5.2	U
75-00-3	Chloroethane	5.2	U
75-69-4	Trichlorofluoromethane	5.2	U
75-35-4	1,1-Dichloroethene	5.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	U
67-64-1	Acetone	11.	
75-15-0	Carbon disulfide	5.2	U
79-20-9	Methyl acetate	5.2	U
75-09-2	Methylene chloride	0.43	JB
156-60-5	trans-1,2-Dichloroethene	5.2	U
1634-04-4	Methyl tert-butyl ether	5.2	U
75-34-3	1,1-Dichloroethane	5.2	U
156-59-2	cis-1,2-Dichloroethene	5.2	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.2	U
67-66-3	Chloroform	5.2	U
71-55-6	1,1,1-Trichloroethane	5.2	U
110-82-7	Cyclohexane	5.2	U
56-23-5	Carbon tetrachloride	5.2	U
71-43-2	Benzene	5.2	U
107-06-2	1,2-Dichloroethane	5.2	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.

F9M41

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542022

Sample wt/vol: 5.64 (g/mL) g Lab File ID: SU86C022

Level: (TRACE/LOW/MED) LOW Date Received: 06/03/2015

% Moisture: not dec. 14. Date Analyzed: 06/09/2015

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	5.2	U
108-87-2	Methylcyclohexane	5.2	U
78-87-5	1,2-Dichloropropane	5.2	U
75-27-4	Bromodichloromethane	5.2	U
10061-01-5	cis-1,3-Dichloropropene	5.2	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.3	
10061-02-6	trans-1,3-Dichloropropene	5.2	U
79-00-5	1,1,2-Trichloroethane	5.2	U
127-18-4	Tetrachloroethene	5.2	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.2	U
106-93-4	1,2-Dibromoethane	5.2	U
108-90-7	Chlorobenzene	5.2	U
100-41-4	Ethylbenzene	5.2	U
95-47-6	o-Xylene	5.2	U
179601-23-1	m,p-Xylene	0.45	J
100-42-5	Styrene	5.2	U
75-25-2	Bromoform	5.2	U
98-82-8	Isopropylbenzene	5.2	U
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U
541-73-1	1,3-Dichlorobenzene	5.2	U
106-46-7	1,4-Dichlorobenzene	5.2	U
95-50-1	1,2-Dichlorobenzene	5.2	U
96-12-8	1,2-Dibromo-3-chloropropane	5.2	U
120-82-1	1,2,4-Trichlorobenzene	5.2	U
87-61-6	1,2,3-Trichlorobenzene	5.2	U

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

EPA SAMPLE NO.
F9M41

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542022
Sample wt/vol: 5.64 (g/mL) g Lab File ID: SU86C022
Level: (TRACE or LOW/MED) LOW Date Received: 06/03/2015
% Moisture: not dec. 14. Date Analyzed: 06/09/2015
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.

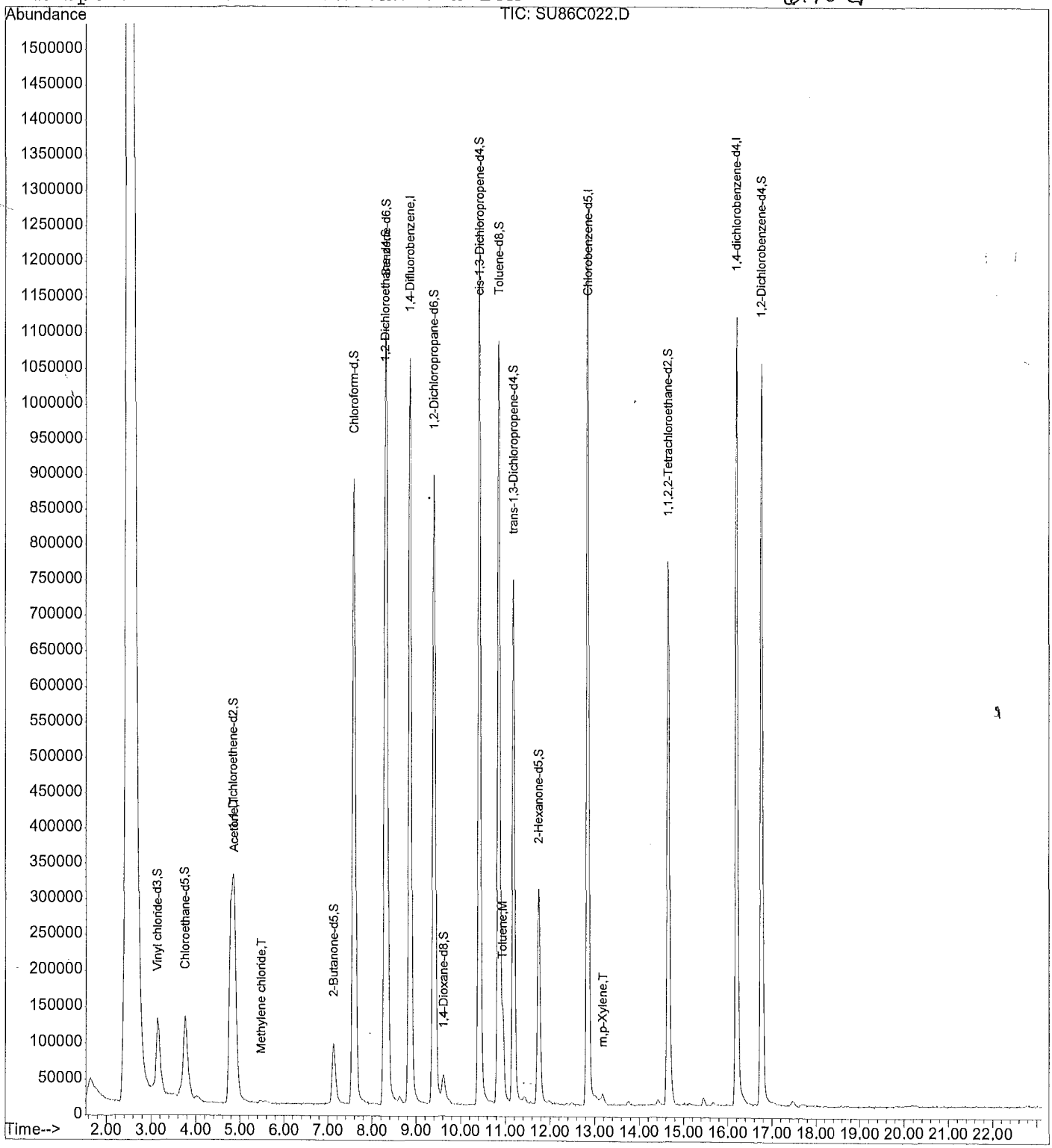
Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU86C022.D
Acq Time : 06/09/2015 20:17 Operator: CQC
Sample : 1515542022 F9M41 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 10 0:43 2015 Quant Results File: SCLPSS.RES

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

6.10.15



00221

Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU86C022.D
Acq Time : 06/09/2015 20:17 Operator: CQC
Sample : 1515542022 F9M41 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 10 0:43 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 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	1637908	50.00 ug/Kg	124.07
30) Chlorobenzene-d5	12.84	117	1192489	50.00 ug/Kg	111.40
62) 1,4-dichlorobenzene-d4	16.20	152	518343	50.00 ug/Kg	85.20
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.15	65	438908	41.99 ug/Kg	83.99%
8) Chloroethane-d5	3.76	69	425842	42.82 ug/Kg	85.64%
11) 1,1-Dichloroethene-d2	4.84	63	1147363	33.29 ug/Kg	66.59%
22) 2-Butanone-d5	7.12	46	281143	99.10 ug/Kg	99.10%
25) Chloroform-d	7.59	84	1568742	46.47 ug/Kg	92.94%
27) 1,2-Dichloroethane-d4	8.28	65	794971	51.52 ug/Kg	103.04%
29) 1,4-Dioxane-d8	9.61	96	62709	1313.31 ug/Kg	131.33%
35) Benzene-d6	8.32	84	1567243	53.44 ug/Kg	106.89%
39) 1,2-Dichloropropane-d6	9.40	67	773394	53.55 ug/Kg	107.09%
42) cis-1,3-Dichloropropene-d4	10.42	79	1282478	53.00 ug/Kg	106.00%
44) trans-1,3-Dichloropropene-	11.18	79	745732	53.45 ug/Kg	106.90%
49) Toluene-d8	10.85	98	1378369	51.96 ug/Kg	103.91%
52) 2-Hexanone-d5	11.74	63	213841	115.64 ug/Kg	115.64%
61) 1,1,2,2-Tetrachloroethane-	14.64	84	798111	53.58 ug/Kg	107.16%
67) 1,2-Dichlorobenzene-d4	16.76	152	481701	48.48 ug/Kg	96.95%
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	32779	10.74 ug/Kg	82
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	5.48	84	4716	0.41 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

00222

Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU86C022.D
Acq Time : 06/09/2015 20:17 Operator: CQC
Sample : 1515542022 F9M41 Inst : 5972-S
Misc : 1515542 Multiplr: 1.00

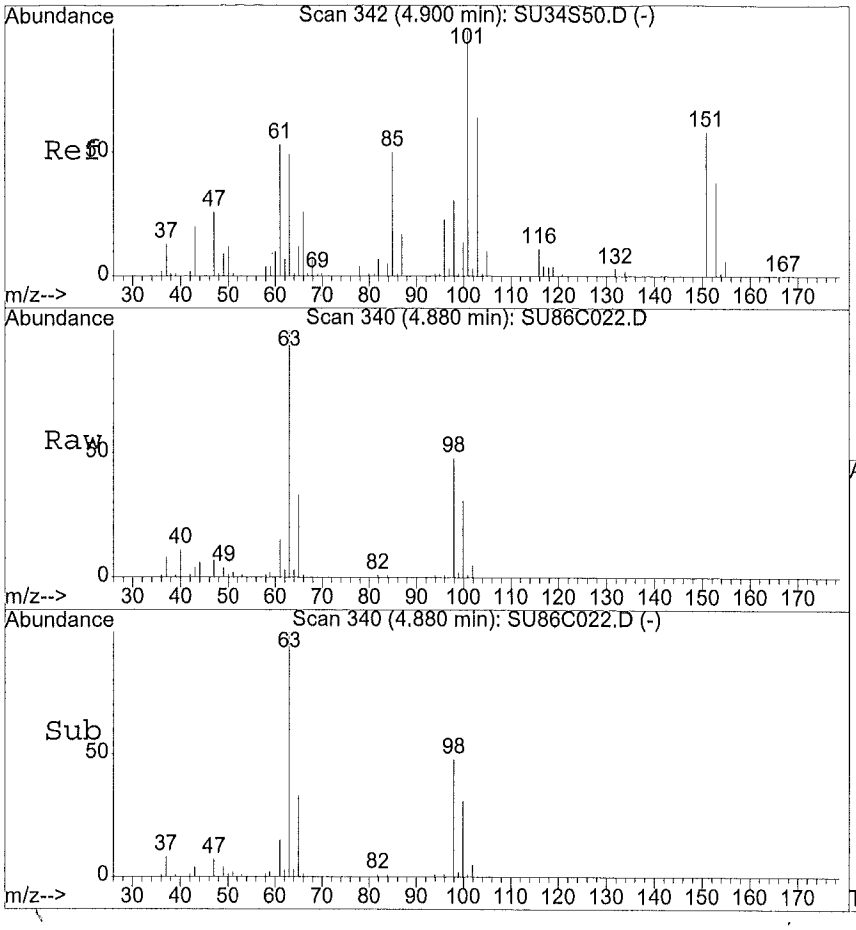
Quant Time: Jun 10 0:43 2015 Quant Results File: SCLPSS.RES

Quant Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu Jun 04 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	145725	5.07 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	13.19	106	5432	0.43 ug/Kg	94
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

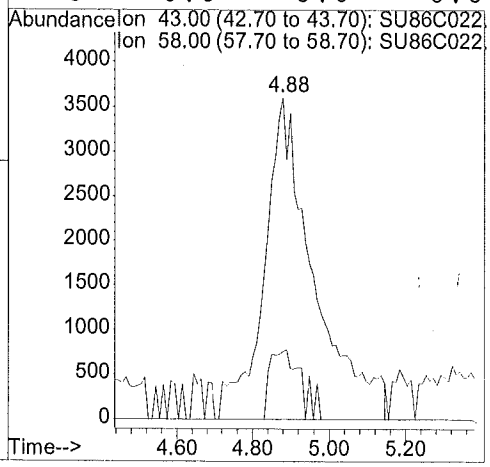
00223

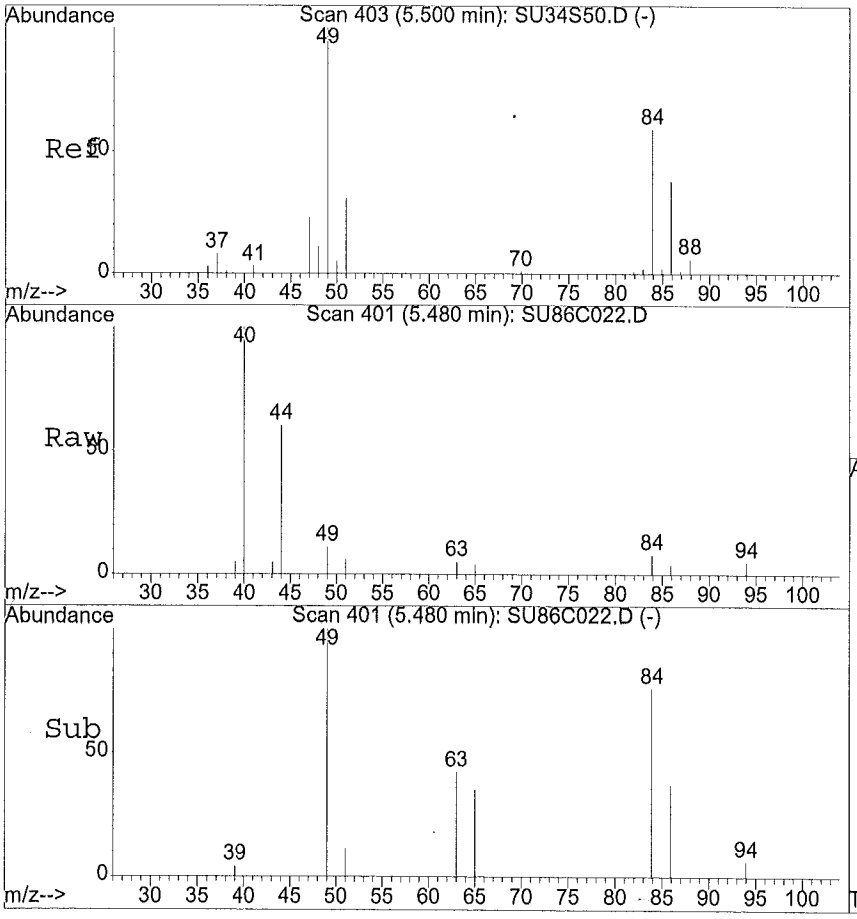


#13
Acetone
Concen: 10.74 ug/Kg
RT: 4.88 min Scan# 340
Delta R.T. -0.01 min
Lab File: SU86C022.D
Acq: 06/09/2015 20:17

Tgt Ion:43 Resp: 32779

Ion	Ratio	Lower	Upper
43	100		
58	13.3	10.9	32.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0

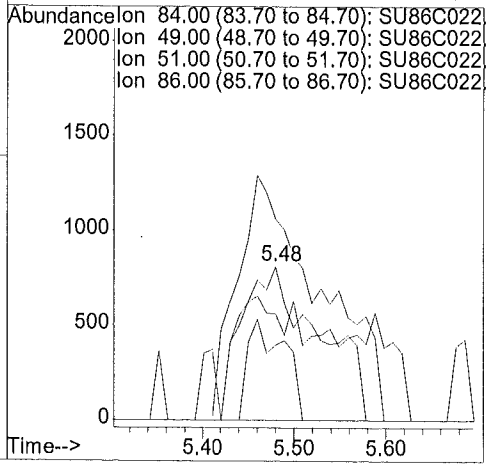


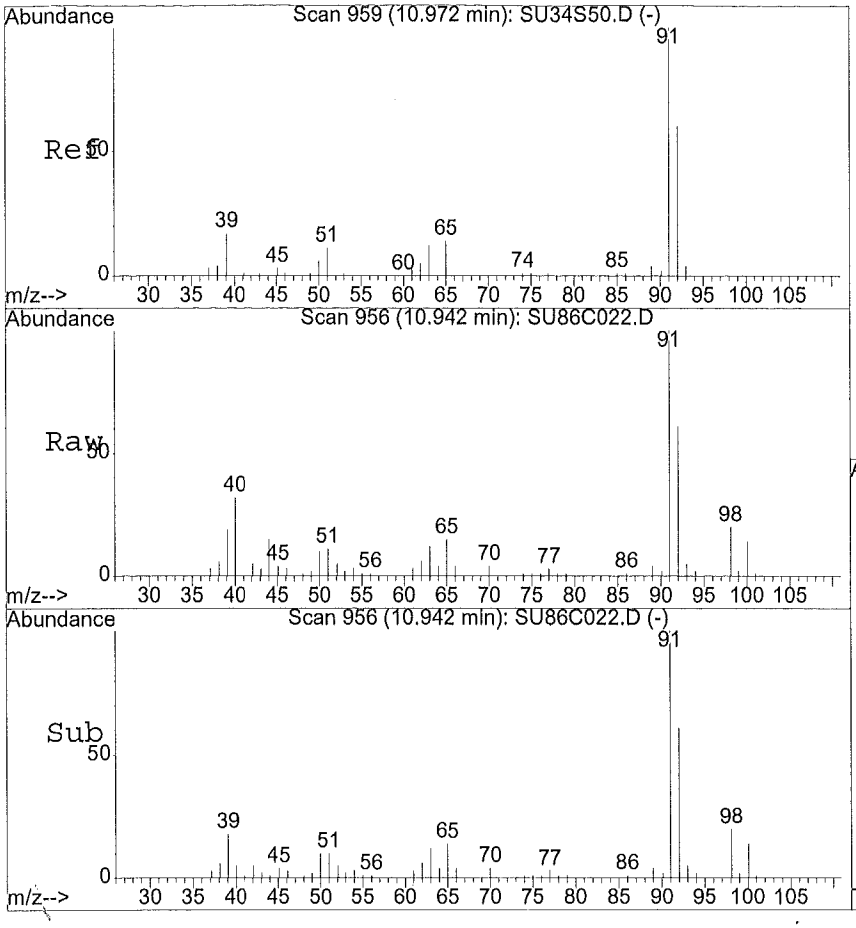


#16
Methylene chloride
Concen: 0.41 ug/Kg
RT: 5.48 min Scan# 401
Delta R.T. -0.02 min
Lab File: SU86C022.D
Acq: 06/09/2015 20:17

Tgt Ion:84 Resp: 4716

Ion	Ratio	Lower	Upper
84	100		
49	171.2	85.4	256.1
51	128.8	26.8	80.4#
86	30.8	33.1	99.2#

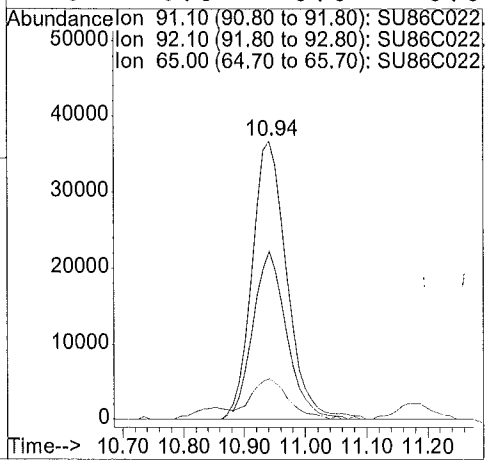


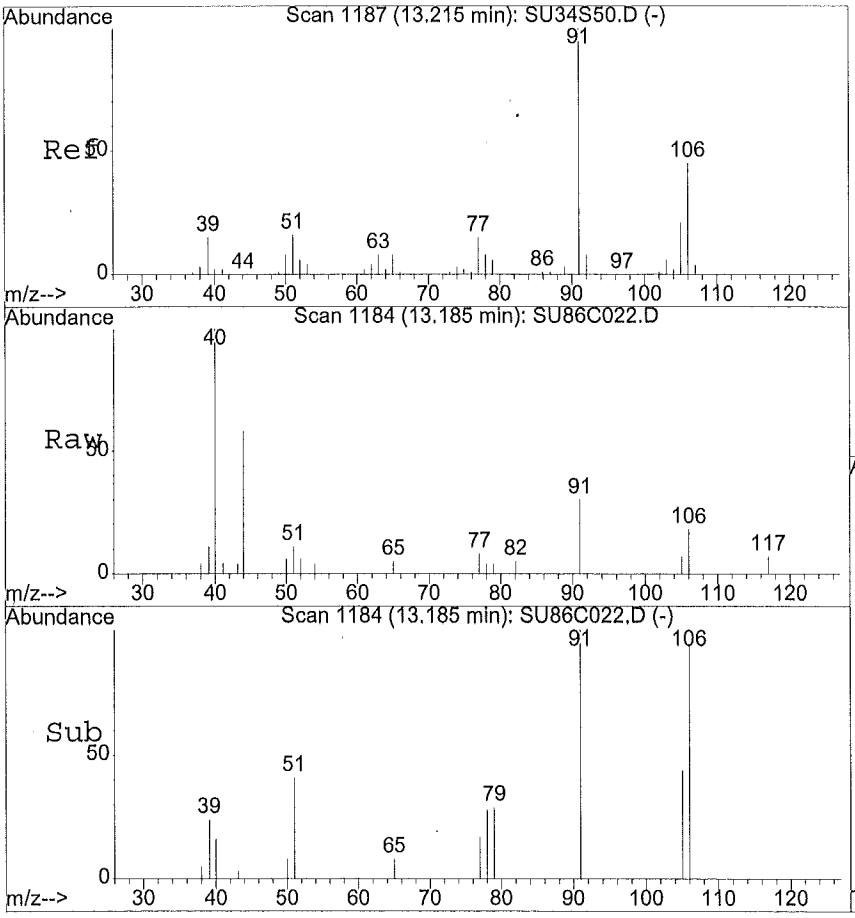


#48
Toluene
Concen: 5.07 ug/Kg
RT: 10.94 min Scan# 956
Delta R.T. -0.03 min
Lab File: SU86C022.D
Acq: 06/09/2015 20:17

Tgt Ion:91.1 Resp: 145725

Ion	Ratio	Lower	Upper
91	100		
92	59.0	48.2	72.2
65	20.7	11.7	17.5#
0	0.0	0.0	0.0

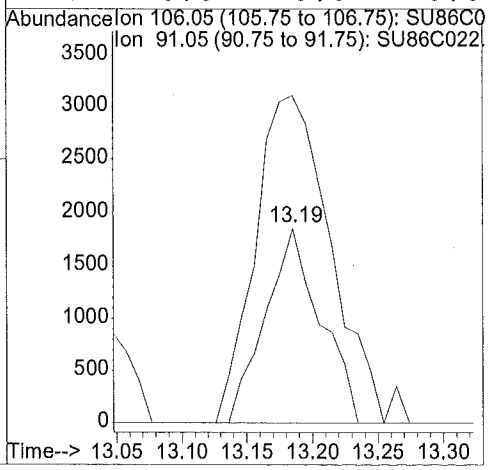




#56
m,p-Xylene
Concen: 0.43 ug/Kg
RT: 13.19 min Scan# 1184
Delta R.T. -0.03 min
Lab File: SU86C022.D
Acq: 06/09/2015 20:17

Tgt Ion:106.05 Resp: 5432

Ion	Ratio	Lower	Upper
106	100		
91	230.8	176.6	264.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0



00225

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.: F9M21

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	$\overline{\text{RRF}}$	%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.: F9M21

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.: F9M21

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

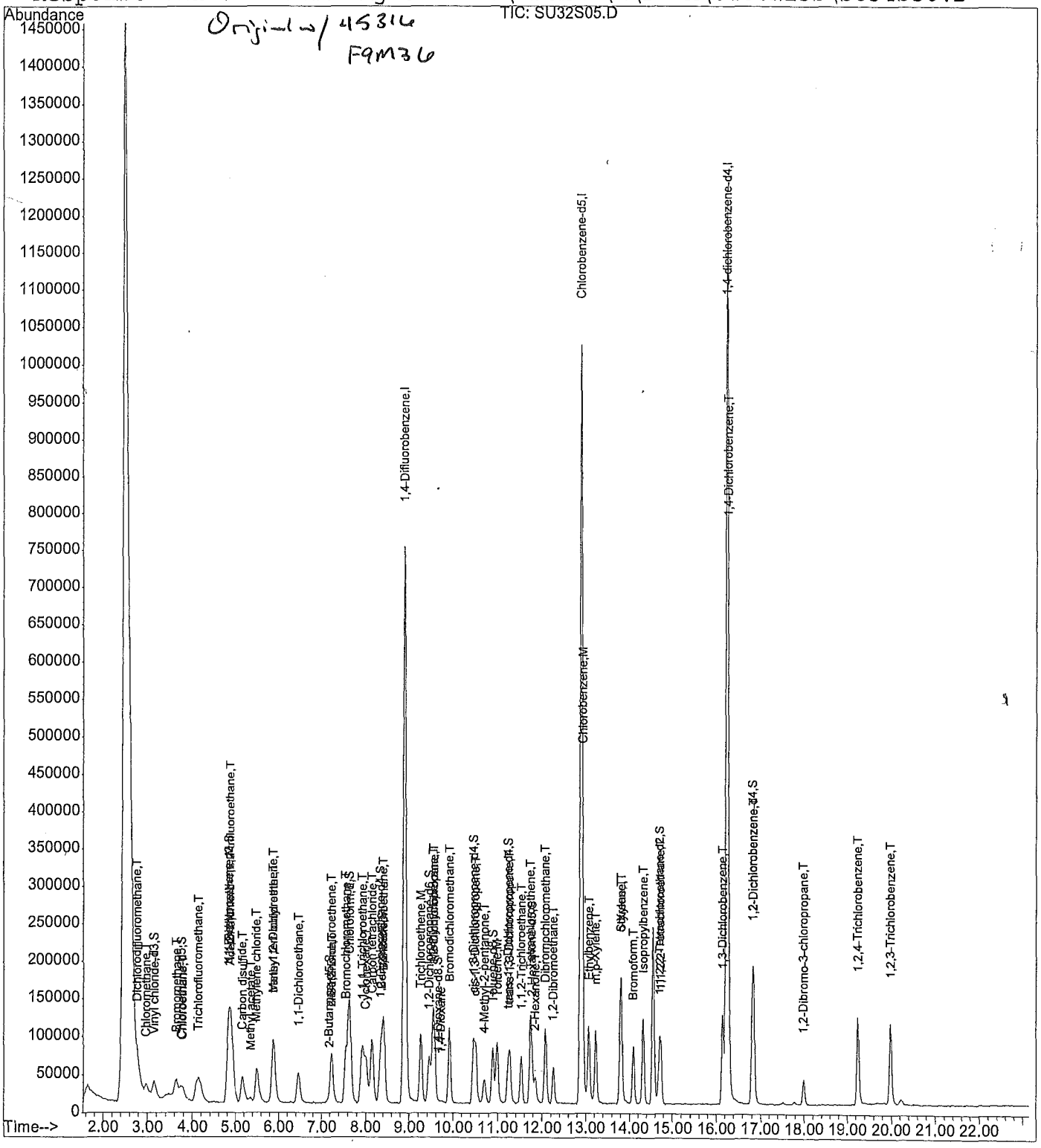
Quantitation Report

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

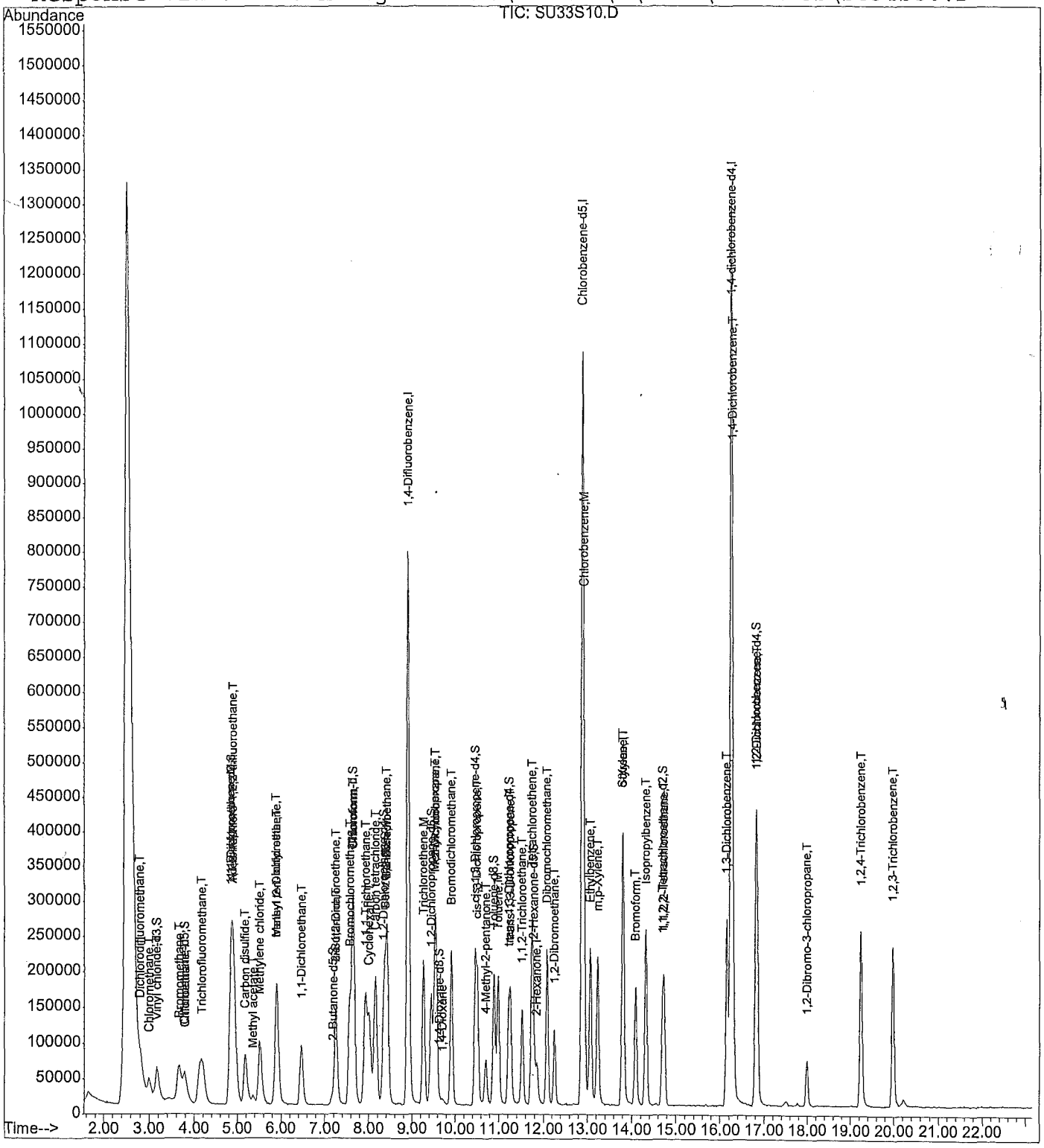
(#) = qualifier out of range (m) = manual integration

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



00232

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

00233

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

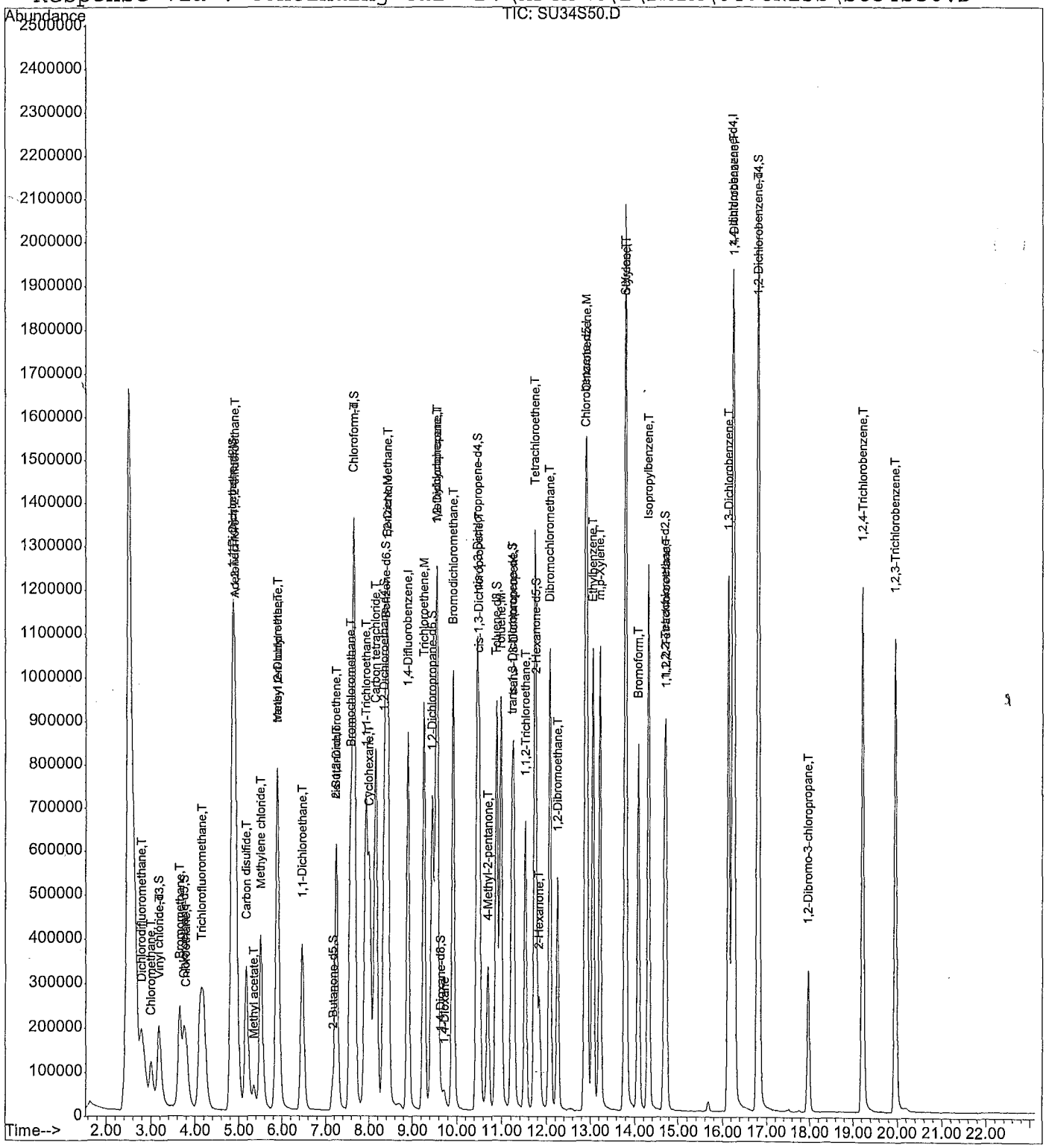
(#) = qualifier out of range (m) = manual integration

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

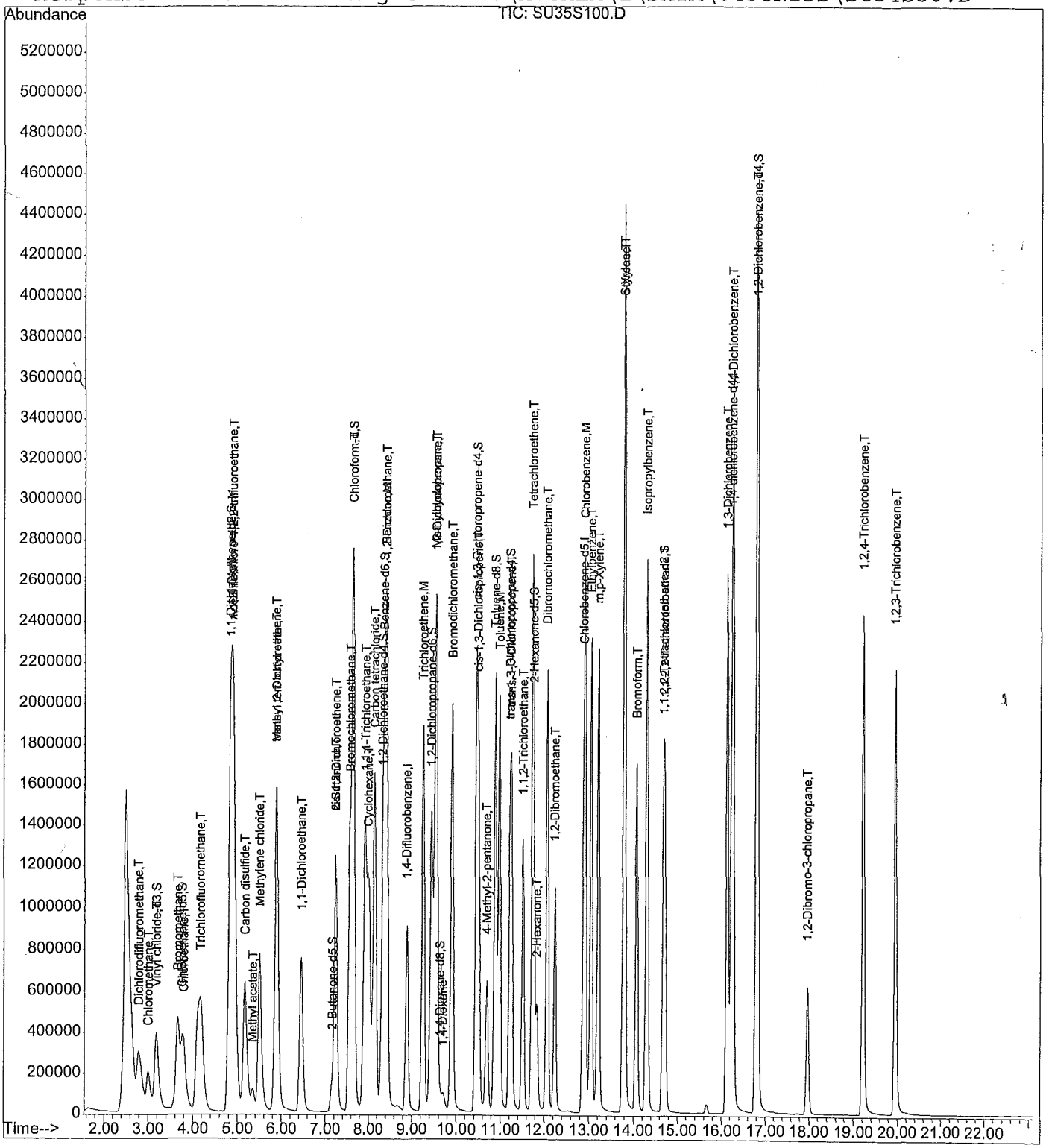
(#) = qualifier out of range (m) = manual integration

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

0239

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

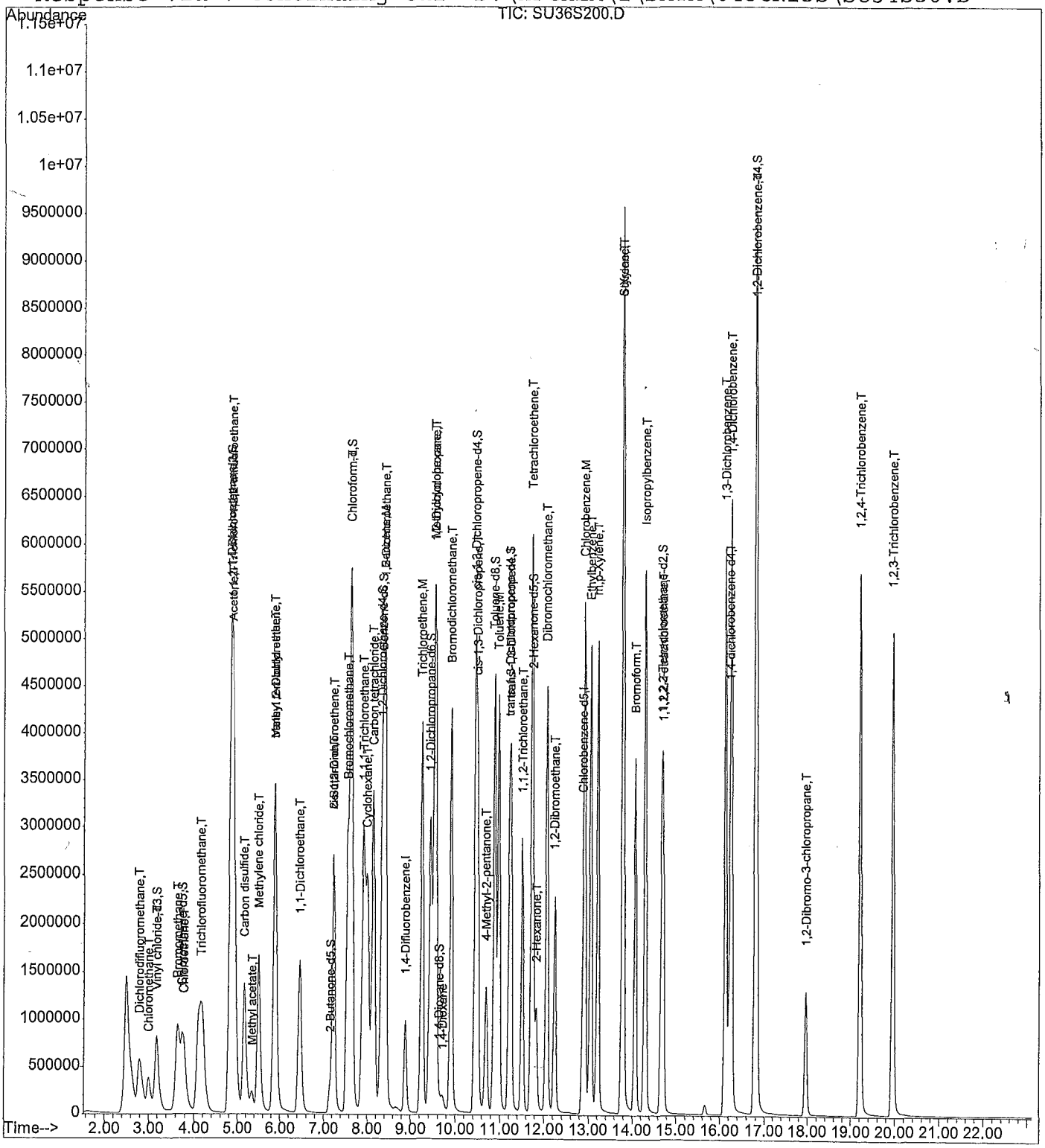
Quantitation Report

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.: F9M21

Instrument ID: 5972-S Calibration Date: 06/08/2015 Time: 16:48

Lab File ID: SU58S50 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	0.454	0.010	-7.7	40.0
Chloromethane	0.263	0.231	0.010	-12.2	40.0
Vinyl chloride	0.274	0.260	0.100	-5.1	25.0
Bromomethane	0.419	0.381	0.100	-9.1	25.0
Chloroethane	0.208	0.199	0.010	-4.1	40.0
Trichlorofluoromethane	0.945	0.932	0.010	-1.4	40.0
1,1-Dichloroethene	0.359	0.341	0.100	-4.8	25.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.889	0.831	0.010	-6.5	40.0
Acetone	0.093	0.102	0.010	9.8	40.0
Carbon disulfide	1.067	1.014	0.010	-5.0	40.0
Methyl acetate	0.153	0.142	0.010	-7.6	40.0
Methylene chloride	0.350	0.352	0.010	0.7	40.0
trans-1,2-Dichloroethene	0.390	0.377	0.010	-3.4	40.0
Methyl tert-butyl ether	0.615	0.612	0.010	-0.4	40.0
1,1-Dichloroethane	0.759	0.734	0.200	-3.4	25.0
cis-1,2-Dichloroethene	0.398	0.386	0.010	-3.0	40.0
2-Butanone	0.108	0.113	0.010	4.3	40.0
Bromochloromethane	0.259	0.253	0.050	-2.4	25.0
Chloroform	0.957	0.929	0.200	-2.9	25.0
1,1,1-Trichloroethane	1.066	1.026	0.100	-3.8	25.0
Cyclohexane	0.581	0.562	0.010	-3.2	40.0
Carbon tetrachloride	1.095	1.058	0.100	-3.4	25.0
Benzene	1.154	1.128	0.400	-2.2	25.0
1,2-Dichloroethane	0.529	0.537	0.100	1.6	25.0
1,4-Dioxane	0.0016	0.0017	0.0050	9.8	50.0
Trichloroethene	0.599	0.584	0.300	-2.4	25.0
Methylcyclohexane	0.552	0.535	0.010	-3.2	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.: F9M21

Instrument ID: 5972-S Calibration Date: 06/08/2015 Time: 16:48

Lab File ID: SU58S50 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	0.446	0.010	-2.4	40.0
Bromodichloromethane	1.214	1.171	0.200	-3.6	25.0
cis-1,3-Dichloropropene	0.745	0.745	0.200	0.0	25.0
4-Methyl-2-Pentanone	0.258	0.250	0.010	-2.8	40.0
Toluene	1.204	1.206	0.400	0.2	25.0
trans-1,3-Dichloropropene	0.605	0.615	0.100	1.7	25.0
1,1,2-Trichloroethane	0.350	0.350	0.100	0.1	25.0
Tetrachloroethene	0.474	0.472	0.100	-0.4	25.0
2-Hexanone	0.222	0.228	0.010	2.9	40.0
Dibromochloromethane	0.931	0.936	0.100	0.5	25.0
1,2-Dibromoethane	0.614	0.619	0.010	0.8	40.0
Chlorobenzene	0.978	0.978	0.500	0.0	25.0
Ethylbenzene	1.448	1.468	0.100	1.4	25.0
o-Xylene	0.552	0.566	0.300	2.6	25.0
m,p-Xylene	0.530	0.541	0.300	2.1	25.0
Styrene	0.914	0.954	0.300	4.4	25.0
Bromoform	1.015	1.012	0.050	-0.3	25.0
Isopropylbenzene	1.647	1.684	0.010	2.3	40.0
1,1,2,2-Tetrachloroethane	0.591	0.595	0.300	0.8	25.0
1,3-Dichlorobenzene	1.408	1.440	0.600	2.3	25.0
1,4-Dichlorobenzene	1.504	1.560	0.500	3.7	25.0
1,2-Dichlorobenzene	1.426	1.421	0.400	-0.3	25.0
1,2-Dibromo-3-chloropropane	0.266	0.263	0.010	-1.0	40.0
1,2,4-Trichlorobenzene	1.056	1.034	0.200	-2.1	25.0
1,2,3-Trichlorobenzene	0.939	0.919	0.200	-2.2	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.: F9M21

Instrument ID: 5972-S Calibration Date: 06/08/2015 Time: 16:48

Lab File ID: SU58S50 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	0.282	0.010	-11.5	25.0
Chloroethane-d5	0.304	0.273	0.010	-10.1	40.0
1,1-Dichloroethene-d2	1.052	0.963	0.010	-8.5	25.0
2-Butanone-d5	0.087	0.098	0.010	12.9	40.0
Chloroform-d	1.031	0.964	0.010	-6.5	25.0
1,2-Dichloroethane-d4	0.471	0.449	0.010	-4.8	25.0
Benzene-d6	1.230	1.140	0.010	-7.3	25.0
1,2-Dichloropropane-d6	0.606	0.582	0.010	-4.0	40.0
Toluene-d8	1.112	1.068	0.010	-4.0	25.0
trans-1,3-Dichloropropene-d4	0.585	0.581	0.010	-0.7	25.0
2-Hexanone-d5	0.078	0.086	0.010	11.3	40.0
1,4-Dioxane-d8	0.0015	0.0017	0.0050	15.2	50.0
1,1,2,2-Tetrachloroethane-d2	0.625	0.613	0.010	-1.9	25.0
1,2-Dichlorobenzene-d4	0.959	0.917	0.010	-4.3	25.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

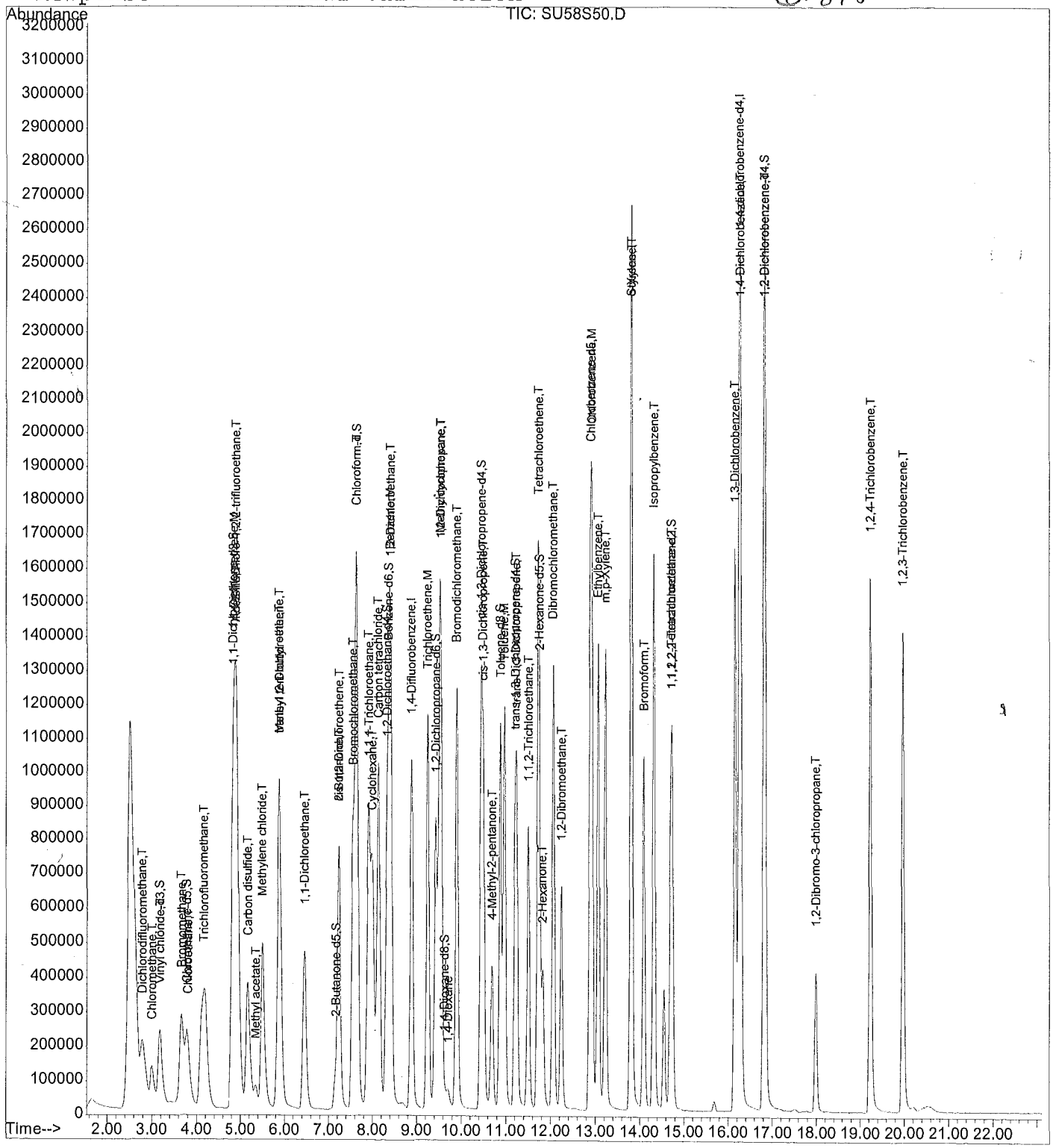
Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU58S50.D
Acq Time : 06/08/2015 16:48 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 8 17:11 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

6.8.15



00217

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU58S50.D
Acq Time : 06/08/2015 16:48 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 8 17:11 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	1595206	50.00	ug/Kg	120.84
30) Chlorobenzene-d5	12.88	117	1330589	50.00	ug/Kg	124.31
62) 1,4-dichlorobenzene-d4	16.25	152	789708	50.00	ug/Kg	129.80
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	3.17	65	450597	44.27	ug/Kg	88.53%
8) Chloroethane-d5	3.77	69	435549	44.97	ug/Kg	89.94%
11) 1,1-Dichloroethene-d2	4.82	63	1535831	45.76	ug/Kg	91.52%
22) 2-Butanone-d5	7.15	46	312025	112.92	ug/Kg	112.92%
25) Chloroform-d	7.62	84	1537444	46.76	ug/Kg	93.53%
27) 1,2-Dichloroethane-d4	8.31	65	715539	47.61	ug/Kg	95.23%
29) 1,4-Dioxane-d8	9.63	96	53561	1151.76	ug/Kg	115.18%
35) Benzene-d6	8.35	84	1516480	46.35	ug/Kg	92.69%
39) 1,2-Dichloropropane-d6	9.43	67	773774	48.01	ug/Kg	96.03%
42) cis-1,3-Dichloropropene-d4	10.44	79	1302587	48.25	ug/Kg	96.49%
44) trans-1,3-Dichloropropene-	11.20	79	772757	49.64	ug/Kg	99.27%
49) Toluene-d8	10.87	98	1420640	47.99	ug/Kg	95.98%
52) 2-Hexanone-d5	11.76	63	229598	111.27	ug/Kg	111.27%
61) 1,1,2,2-Tetrachloroethane-	14.70	84	815314	49.05	ug/Kg	98.11%
67) 1,2-Dichlorobenzene-d4	16.81	152	724295	47.84	ug/Kg	95.69%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.79	85	724921	46.16	ug/Kg#	100
3) Chloromethane	3.00	50	367808	43.88	ug/Kg	96
4) Vinyl chloride	3.19	62	414499	47.43	ug/Kg	98
6) Bromomethane	3.66	94	607528	45.46	ug/Kg	100
7) Chloroethane	3.82	64	317561	47.93	ug/Kg	99
9) Trichlorofluoromethane	4.17	101	1486412	49.30	ug/Kg	100
10) 1,1-Dichloroethene	4.84	96	544619	47.60	ug/Kg	98
12) 1,1,2-Trichloro-1,2,2-trif	4.90	101	1325945	46.73	ug/Kg	99
13) Acetone	4.90	43	326597	109.84	ug/Kg	100
14) Carbon disulfide	5.16	76	1617424	47.50	ug/Kg	98
15) Methyl acetate	5.35	43	226002	46.19	ug/Kg	96
16) Methylene chloride	5.50	84	562049	50.34	ug/Kg	99
17) trans-1,2-Dichloroethene	5.87	96	601787	48.32	ug/Kg	100
18) Methyl tert-butyl ether	5.87	73	976474	49.80	ug/Kg	98
19) 1,1-Dichloroethane	6.45	63	1170543	48.32	ug/Kg	99
20) cis-1,2-Dichloroethene	7.23	96	615553	48.48	ug/Kg	100
21) 2-Butanone	7.23	43	360489	104.34	ug/Kg	99
23) Bromochloromethane	7.55	128	403925	48.81	ug/Kg	97
24) Chloroform	7.64	83	1482645	48.54	ug/Kg	99

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

00249

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU58S50.D
Acq Time : 06/08/2015 16:48 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 8 17:11 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	8.41	62	856985	50.78 ug/Kg	99
28)	1,4-Dioxane	9.71	88	55570	1097.70 ug/Kg	96
31)	1,1,1-Trichloroethane	7.91	97	1365004	48.11 ug/Kg	100
32)	Cyclohexane	8.00	56	747749	48.40 ug/Kg	96
33)	Carbon tetrachloride	8.13	117	1407500	48.30 ug/Kg	98
34)	Benzene	8.40	78	1500466	48.88 ug/Kg#	98
36)	Trichloroethene	9.24	95	777279	48.78 ug/Kg	100
37)	Methylcyclohexane	9.51	55	711451	48.40 ug/Kg	98
38)	1,2-Dichloropropane	9.54	63	593875	48.81 ug/Kg	99
40)	Bromodichloromethane	9.90	83	1557611	48.20 ug/Kg	99
41)	cis-1,3-Dichloropropene	10.50	75	991376	49.98 ug/Kg	100
43)	trans-1,3-Dichloropropene	11.24	75	818175	50.83 ug/Kg	100
45)	1,1,2-Trichloroethane	11.50	97	465689	50.05 ug/Kg	99
46)	Dibromochloromethane	12.05	129	1244969	50.26 ug/Kg	99
47)	4-Methyl-2-pentanone	10.69	43	666457	97.24 ug/Kg	99
48)	Toluene	10.96	91	1604866	50.08 ug/Kg	100
50)	Tetrachloroethene	11.72	164	628643	49.82 ug/Kg	99
51)	2-Hexanone	11.83	43	607485	102.87 ug/Kg	99
53)	1,2-Dibromoethane	12.24	107	823976	50.42 ug/Kg	99
54)	Chlorobenzene	12.92	112	1301761	50.00 ug/Kg	100
55)	Ethylbenzene	13.06	91	1953504	50.68 ug/Kg	100
56)	m,p-Xylene	13.22	106	720317	51.03 ug/Kg	98
57)	o-Xylene	13.80	106	753084	51.28 ug/Kg	100
58)	Styrene	13.82	104	1269481	52.19 ug/Kg	99
59)	Isopropylbenzene	14.32	105	2241294	51.15 ug/Kg	99
60)	1,1,2,2-Tetrachloroethane	14.73	83	792043	50.39 ug/Kg	99
63)	Bromoform	14.09	173	799295	49.84 ug/Kg	100
64)	1,3-Dichlorobenzene	16.15	146	1136977	51.13 ug/Kg	99
65)	1,4-Dichlorobenzene	16.28	146	1231611	51.86 ug/Kg	98
66)	1,2-Dichlorobenzene	16.84	146	1122322	49.83 ug/Kg	99
68)	1,2-Dibromo-3-chloropropan	17.99	75	207587	49.50 ug/Kg	100
69)	1,2,4-Trichlorobenzene	19.23	180	816316	48.94 ug/Kg	100
70)	1,2,3-Trichlorobenzene	19.97	180	725712	48.91 ug/Kg	100

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

00219

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.: F9M21

Instrument ID: 5972-S Calibration Date: 06/09/2015 Time: 02:43

Lab File ID: SU76F50 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	0.430	0.010	-12.6	50.0
Chloromethane	0.263	0.243	0.010	-7.7	50.0
Vinyl chloride	0.274	0.253	0.010	-7.6	50.0
Bromomethane	0.419	0.400	0.010	-4.6	50.0
Chloroethane	0.208	0.193	0.010	-6.9	50.0
Trichlorofluoromethane	0.945	0.898	0.010	-5.0	50.0
1,1-Dichloroethene	0.359	0.335	0.010	-6.6	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.889	0.819	0.010	-7.9	50.0
Acetone	0.093	0.066	0.010	-28.9	50.0
Carbon disulfide	1.067	0.990	0.010	-7.2	50.0
Methyl acetate	0.153	0.157	0.010	2.1	50.0
Methylene chloride	0.350	0.343	0.010	-2.0	50.0
trans-1,2-Dichloroethene	0.390	0.375	0.010	-4.0	50.0
Methyl tert-butyl ether	0.615	0.627	0.010	1.9	50.0
1,1-Dichloroethane	0.759	0.728	0.010	-4.1	50.0
cis-1,2-Dichloroethene	0.398	0.387	0.010	-2.8	50.0
2-Butanone	0.108	0.084	0.010	-22.2	50.0
Bromochloromethane	0.259	0.266	0.010	2.4	50.0
Chloroform	0.957	0.944	0.010	-1.4	50.0
1,1,1-Trichloroethane	1.066	1.017	0.010	-4.6	50.0
Cyclohexane	0.581	0.530	0.010	-8.6	50.0
Carbon tetrachloride	1.095	1.037	0.010	-5.2	50.0
Benzene	1.154	1.115	0.010	-3.3	50.0
1,2-Dichloroethane	0.529	0.547	0.010	3.4	50.0
1,4-Dioxane	0.0016	0.0018	0.0050	11.6	50.0
Trichloroethene	0.599	0.571	0.010	-4.6	50.0
Methylcyclohexane	0.552	0.492	0.010	-10.9	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.: F9M21

Instrument ID: 5972-S Calibration Date: 06/09/2015 Time: 02:43

Lab File ID: SU76F50 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	0.455	0.010	-0.5	50.0
Bromodichloromethane	1.214	1.224	0.010	0.8	50.0
cis-1,3-Dichloropropene	0.745	0.737	0.010	-1.1	50.0
4-Methyl-2-Pentanone	0.258	0.258	0.010	0.1	50.0
Toluene	1.204	1.168	0.010	-3.0	50.0
trans-1,3-Dichloropropene	0.605	0.612	0.010	1.2	50.0
1,1,2-Trichloroethane	0.350	0.359	0.010	2.7	50.0
Tetrachloroethene	0.474	0.452	0.010	-4.7	50.0
2-Hexanone	0.222	0.185	0.010	-16.7	50.0
Dibromochloromethane	0.931	0.980	0.010	5.2	50.0
1,2-Dibromoethane	0.614	0.652	0.010	6.1	50.0
Chlorobenzene	0.978	0.965	0.010	-1.4	50.0
Ethylbenzene	1.448	1.408	0.010	-2.8	50.0
o-Xylene	0.552	0.553	0.010	0.3	50.0
m,p-Xylene	0.530	0.517	0.010	-2.6	50.0
Styrene	0.914	0.930	0.010	1.7	50.0
Bromoform	1.015	1.090	0.010	7.3	50.0
Isopropylbenzene	1.647	1.608	0.010	-2.3	50.0
1,1,2,2-Tetrachloroethane	0.591	0.622	0.010	5.3	50.0
1,3-Dichlorobenzene	1.408	1.368	0.010	-2.9	50.0
1,4-Dichlorobenzene	1.504	1.525	0.010	1.4	50.0
1,2-Dichlorobenzene	1.426	1.430	0.010	0.3	50.0
1,2-Dibromo-3-chloropropane	0.266	0.273	0.010	2.9	50.0
1,2,4-Trichlorobenzene	1.056	1.016	0.010	-3.8	50.0
1,2,3-Trichlorobenzene	0.939	0.931	0.010	-0.9	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.: F9M21

Instrument ID: 5972-S Calibration Date: 06/09/2015 Time: 02:43

Lab File ID: SU76F50 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	0.283	0.010	-11.4	50.0
Chloroethane-d5	0.304	0.274	0.010	-9.7	50.0
1,1-Dichloroethene-d2	1.052	0.956	0.010	-9.2	50.0
2-Butanone-d5	0.087	0.083	0.010	-4.4	50.0
Chloroform-d	1.031	1.000	0.010	-2.9	50.0
1,2-Dichloroethane-d4	0.471	0.473	0.010	0.3	50.0
Benzene-d6	1.230	1.169	0.010	-5.0	50.0
1,2-Dichloropropane-d6	0.606	0.587	0.010	-3.0	50.0
Toluene-d8	1.112	1.068	0.010	-4.0	50.0
trans-1,3-Dichloropropene-d4	0.585	0.585	0.010	0.0	50.0
2-Hexanone-d5	0.078	0.077	0.010	-0.5	50.0
1,4-Dioxane-d8	0.0015	0.0017	0.0050	18.2	50.0
1,1,2,2-Tetrachloroethane-d2	0.625	0.653	0.010	4.6	50.0
1,2-Dichlorobenzene-d4	0.959	0.936	0.010	-2.3	50.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

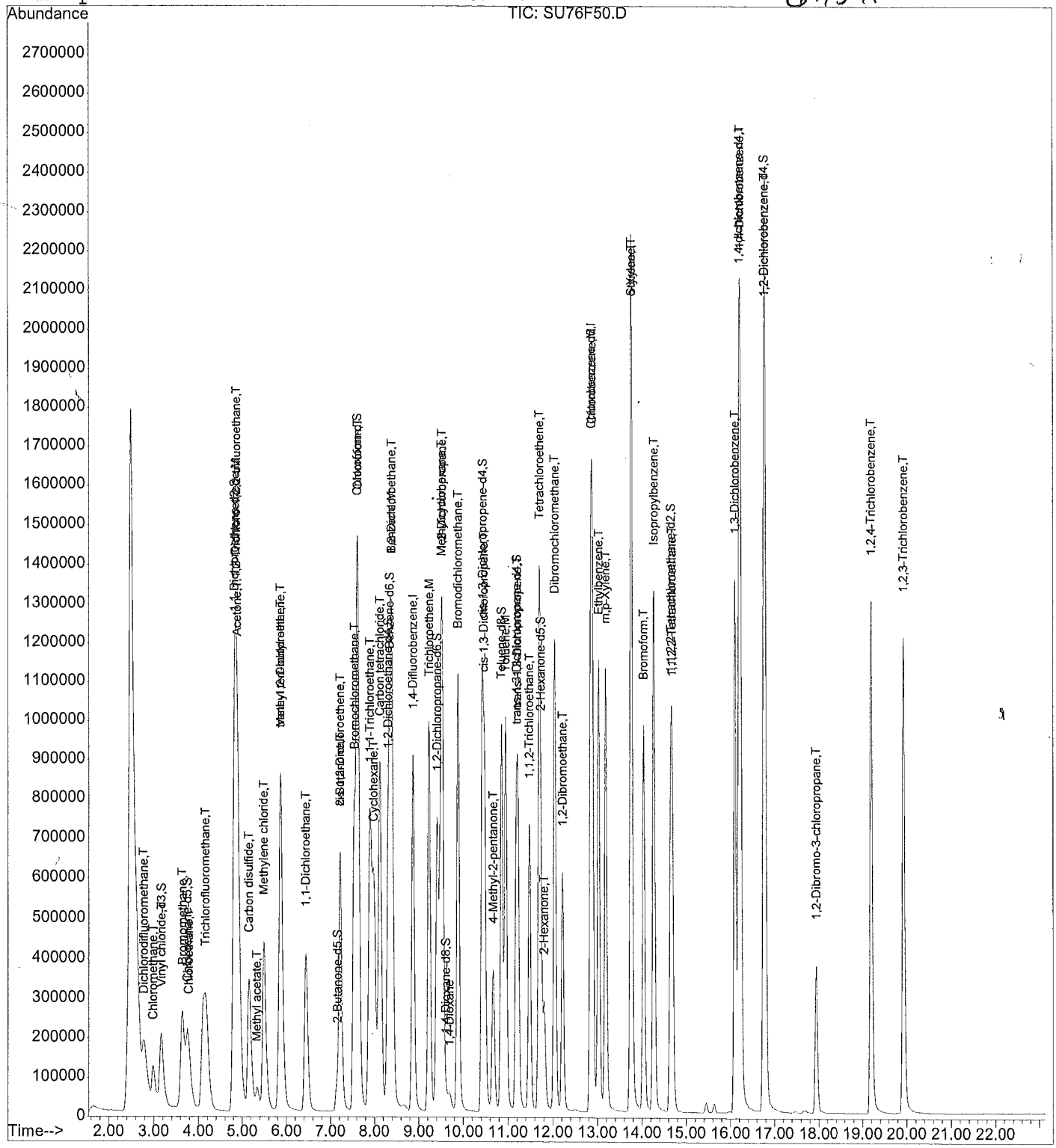
Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU76F50.D
Acq Time : 06/09/2015 02:43 Operator: CQC
Sample : VSTD050S2 VSTD050S2 50 ug/Kg FCS Inst : 5972-S
Misc : 2.5 uL of 28198, 28199 Multiplr: 1.00

Quant Time: Jun 9 3:07 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

6.10.15



00253

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU76F50.D
Acq Time : 06/09/2015 02:43 Operator: CQC
Sample : VSTD050S2 VSTD050S2 50 ug/Kg FCS Inst : 5972-S
Misc : 2.5 uL of 28198, 28199 Multiplr: 1.00

Quant Time: Jun 9 3:07 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	1370366	50.00	ug/Kg	103.81
30) Chlorobenzene-d5	12.85	117	1135654	50.00	ug/Kg	106.09
62) 1,4-dichlorobenzene-d4	16.19	152	670082	50.00	ug/Kg	110.14
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	3.16	65	387259	44.29	ug/Kg	88.57%
8) Chloroethane-d5	3.74	69	375857	45.17	ug/Kg	90.34%
11) 1,1-Dichloroethene-d2	4.82	63	1309575	45.42	ug/Kg	90.84%
22) 2-Butanone-d5	7.15	46	226860	95.57	ug/Kg	95.57%
25) Chloroform-d	7.60	84	1370936	48.54	ug/Kg	97.08%
27) 1,2-Dichloroethane-d4	8.30	65	647667	50.17	ug/Kg	100.34%
29) 1,4-Dioxane-d8	9.62	96	47221	1182.03	ug/Kg	118.20%
35) Benzene-d6	8.34	84	1327226	47.52	ug/Kg	95.05%
39) 1,2-Dichloropropane-d6	9.41	67	666988	48.49	ug/Kg	96.98%
42) cis-1,3-Dichloropropene-d4	10.43	79	1132955	49.17	ug/Kg	98.33%
44) trans-1,3-Dichloropropene-	11.18	79	664193	49.99	ug/Kg	99.97%
49) Toluene-d8	10.86	98	1212593	47.99	ug/Kg	95.99%
52) 2-Hexanone-d5	11.74	63	175223	99.50	ug/Kg	99.50%
61) 1,1,2,2-Tetrachloroethane-	14.65	84	741976	52.30	ug/Kg	104.61%
67) 1,2-Dichlorobenzene-d4	16.76	152	627455	48.85	ug/Kg	97.69%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.79	85	589244	43.68	ug/Kg#	99
3) Chloromethane	2.99	50	332414	46.16	ug/Kg	99
4) Vinyl chloride	3.17	62	346901	46.21	ug/Kg	99
6) Bromomethane	3.64	94	547704	47.71	ug/Kg	99
7) Chloroethane	3.79	64	265055	46.57	ug/Kg	100
9) Trichlorofluoromethane	4.16	101	1230567	47.51	ug/Kg	99
10) 1,1-Dichloroethene	4.84	96	458854	46.68	ug/Kg	98
12) 1,1,2-Trichloro-1,2,2-trif	4.87	101	1122465	46.05	ug/Kg	99
13) Acetone	4.89	43	181504	71.06	ug/Kg	99
14) Carbon disulfide	5.16	76	1356687	46.38	ug/Kg	99
15) Methyl acetate	5.34	43	214556	51.04	ug/Kg	99
16) Methylene chloride	5.49	84	470000	49.00	ug/Kg	99
17) trans-1,2-Dichloroethene	5.87	96	513755	48.02	ug/Kg	99
18) Methyl tert-butyl ether	5.87	73	858678	50.97	ug/Kg	99
19) 1,1-Dichloroethane	6.44	63	997850	47.95	ug/Kg	99
20) cis-1,2-Dichloroethene	7.22	96	529905	48.58	ug/Kg	99
21) 2-Butanone	7.22	43	231000	77.83	ug/Kg	99
23) Bromochloromethane	7.54	128	363933	51.20	ug/Kg	96
24) Chloroform	7.63	83	1293510	49.29	ug/Kg	99

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

0025

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU76F50.D
Acq Time : 06/09/2015 02:43 Operator: CQC
Sample : VSTD050S2 VSTD050S2 50 ug/Kg FCS Inst : 5972-S
Misc : 2.5 uL of 28198, 28199 Multiplr: 1.00

Quant Time: Jun 9 3:07 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	749385	51.69 ug/Kg	98
28)	1,4-Dioxane	9.70	88	48539	1116.13 ug/Kg	96
31)	1,1,1-Trichloroethane	7.90	97	1155527	47.71 ug/Kg	99
32)	Cyclohexane	7.98	56	602313	45.68 ug/Kg	99
33)	Carbon tetrachloride	8.12	117	1178238	47.38 ug/Kg	100
34)	Benzene	8.39	78	1266809	48.35 ug/Kg#	99
36)	Trichloroethene	9.22	95	648732	47.70 ug/Kg	100
37)	Methylcyclohexane	9.50	55	558743	44.54 ug/Kg	98
38)	1,2-Dichloropropane	9.53	63	516821	49.77 ug/Kg	96
40)	Bromodichloromethane	9.88	83	1389841	50.40 ug/Kg	100
41)	cis-1,3-Dichloropropene	10.47	75	837040	49.44 ug/Kg	100
43)	trans-1,3-Dichloropropene	11.22	75	694942	50.59 ug/Kg	100
45)	1,1,2-Trichloroethane	11.49	97	407827	51.35 ug/Kg	100
46)	Dibromochloromethane	12.04	129	1112527	52.62 ug/Kg	99
47)	4-Methyl-2-pentanone	10.67	43	585266	100.05 ug/Kg	100
48)	Toluene	10.95	91	1326297	48.49 ug/Kg	99
50)	Tetrachloroethene	11.70	164	513005	47.63 ug/Kg	99
51)	2-Hexanone	11.81	43	419703	83.27 ug/Kg	100
53)	1,2-Dibromoethane	12.22	107	739907	53.05 ug/Kg	100
54)	Chlorobenzene	12.89	112	1095987	49.32 ug/Kg	99
55)	Ethylbenzene	13.02	91	1599469	48.62 ug/Kg	100
56)	m,p-Xylene	13.18	106	586767	48.71 ug/Kg	99
57)	o-Xylene	13.75	106	628286	50.13 ug/Kg	100
58)	Styrene	13.76	104	1055654	50.84 ug/Kg	99
59)	Isopropylbenzene	14.27	105	1826418	48.83 ug/Kg	100
60)	1,1,2,2-Tetrachloroethane	14.69	83	706383	52.65 ug/Kg	99
63)	Bromoform	14.04	173	730386	53.67 ug/Kg	100
64)	1,3-Dichlorobenzene	16.10	146	916614	48.57 ug/Kg	99
65)	1,4-Dichlorobenzene	16.23	146	1021617	50.70 ug/Kg	98
66)	1,2-Dichlorobenzene	16.79	146	958369	50.15 ug/Kg	100
68)	1,2-Dibromo-3-chloropropan	17.94	75	183007	51.43 ug/Kg	99
69)	1,2,4-Trichlorobenzene	19.19	180	680856	48.11 ug/Kg	100
70)	1,2,3-Trichlorobenzene	19.93	180	623810	49.55 ug/Kg	99

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

00255

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.: F9M21

Instrument ID: 5972-S Calibration Date: 06/09/2015 Time: 17:03

Lab File ID: SU80S50 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	0.407	0.010	-17.4	40.0
Chloromethane	0.263	0.215	0.010	-18.3	40.0
Vinyl chloride	0.274	0.239	0.100	-12.9	25.0
Bromomethane	0.419	0.363	0.100	-13.3	25.0
Chloroethane	0.208	0.188	0.010	-9.3	40.0
Trichlorofluoromethane	0.945	0.850	0.010	-10.0	40.0
1,1-Dichloroethene	0.359	0.322	0.100	-10.3	25.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.889	0.790	0.010	-11.2	40.0
Acetone	0.093	0.073	0.010	-21.8	40.0
Carbon disulfide	1.067	0.919	0.010	-13.9	40.0
Methyl acetate	0.153	0.155	0.010	1.1	40.0
Methylene chloride	0.350	0.316	0.010	-9.6	40.0
trans-1,2-Dichloroethene	0.390	0.356	0.010	-8.8	40.0
Methyl tert-butyl ether	0.615	0.603	0.010	-1.9	40.0
1,1-Dichloroethane	0.759	0.702	0.200	-7.5	25.0
cis-1,2-Dichloroethene	0.398	0.368	0.010	-7.5	40.0
2-Butanone	0.108	0.093	0.010	-14.1	40.0
Bromochloromethane	0.259	0.247	0.050	-4.9	25.0
Chloroform	0.957	0.886	0.200	-7.5	25.0
1,1,1-Trichloroethane	1.066	0.967	0.100	-9.3	25.0
Cyclohexane	0.581	0.532	0.010	-8.4	40.0
Carbon tetrachloride	1.095	1.009	0.100	-7.8	25.0
Benzene	1.154	1.087	0.400	-5.8	25.0
1,2-Dichloroethane	0.529	0.532	0.100	0.5	25.0
1,4-Dioxane	0.0016	0.0018	0.0050	13.9	50.0
Trichloroethene	0.599	0.560	0.300	-6.4	25.0
Methylcyclohexane	0.552	0.509	0.010	-7.9	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.: F9M21

Instrument ID: 5972-S Calibration Date: 06/09/2015 Time: 17:03

Lab File ID: SU80S50 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	0.443	0.010	-3.1	40.0
Bromodichloromethane	1.214	1.165	0.200	-4.1	25.0
cis-1,3-Dichloropropene	0.745	0.741	0.200	-0.6	25.0
4-Methyl-2-Pentanone	0.258	0.260	0.010	0.8	40.0
Toluene	1.204	1.173	0.400	-2.6	25.0
trans-1,3-Dichloropropene	0.605	0.624	0.100	3.2	25.0
1,1,2-Trichloroethane	0.350	0.358	0.100	2.4	25.0
Tetrachloroethene	0.474	0.462	0.100	-2.6	25.0
2-Hexanone	0.222	0.194	0.010	-12.5	40.0
Dibromochloromethane	0.931	0.936	0.100	0.5	25.0
1,2-Dibromoethane	0.614	0.628	0.010	2.4	40.0
Chlorobenzene	0.978	0.954	0.500	-2.5	25.0
Ethylbenzene	1.448	1.402	0.100	-3.2	25.0
o-Xylene	0.552	0.546	0.300	-1.1	25.0
m,p-Xylene	0.530	0.521	0.300	-1.8	25.0
Styrene	0.914	0.923	0.300	1.0	25.0
Bromoform	1.015	1.042	0.050	2.6	25.0
Isopropylbenzene	1.647	1.627	0.010	-1.2	40.0
1,1,2,2-Tetrachloroethane	0.591	0.610	0.300	3.3	25.0
1,3-Dichlorobenzene	1.408	1.389	0.600	-1.3	25.0
1,4-Dichlorobenzene	1.504	1.518	0.500	0.9	25.0
1,2-Dichlorobenzene	1.426	1.414	0.400	-0.9	25.0
1,2-Dibromo-3-chloropropane	0.266	0.275	0.010	3.6	40.0
1,2,4-Trichlorobenzene	1.056	1.074	0.200	1.7	25.0
1,2,3-Trichlorobenzene	0.939	0.990	0.200	5.4	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.: F9M21

Instrument ID: 5972-S Calibration Date: 06/09/2015 Time: 17:03

Lab File ID: SU80S50 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	0.262	0.010	-17.9	25.0
Chloroethane-d5	0.304	0.267	0.010	-12.1	40.0
1,1-Dichloroethene-d2	1.052	0.924	0.010	-12.2	25.0
2-Butanone-d5	0.087	0.090	0.010	3.9	40.0
Chloroform-d	1.031	0.951	0.010	-7.7	25.0
1,2-Dichloroethane-d4	0.471	0.456	0.010	-3.3	25.0
Benzene-d6	1.230	1.148	0.010	-6.6	25.0
1,2-Dichloropropane-d6	0.606	0.574	0.010	-5.2	40.0
Toluene-d8	1.112	1.069	0.010	-3.9	25.0
trans-1,3-Dichloropropene-d4	0.585	0.600	0.010	2.6	25.0
2-Hexanone-d5	0.078	0.080	0.010	3.4	40.0
1,4-Dioxane-d8	0.0015	0.0017	0.0050	18.5	50.0
1,1,2,2-Tetrachloroethane-d2	0.625	0.641	0.010	2.6	25.0
1,2-Dichlorobenzene-d4	0.959	0.928	0.010	-3.2	25.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

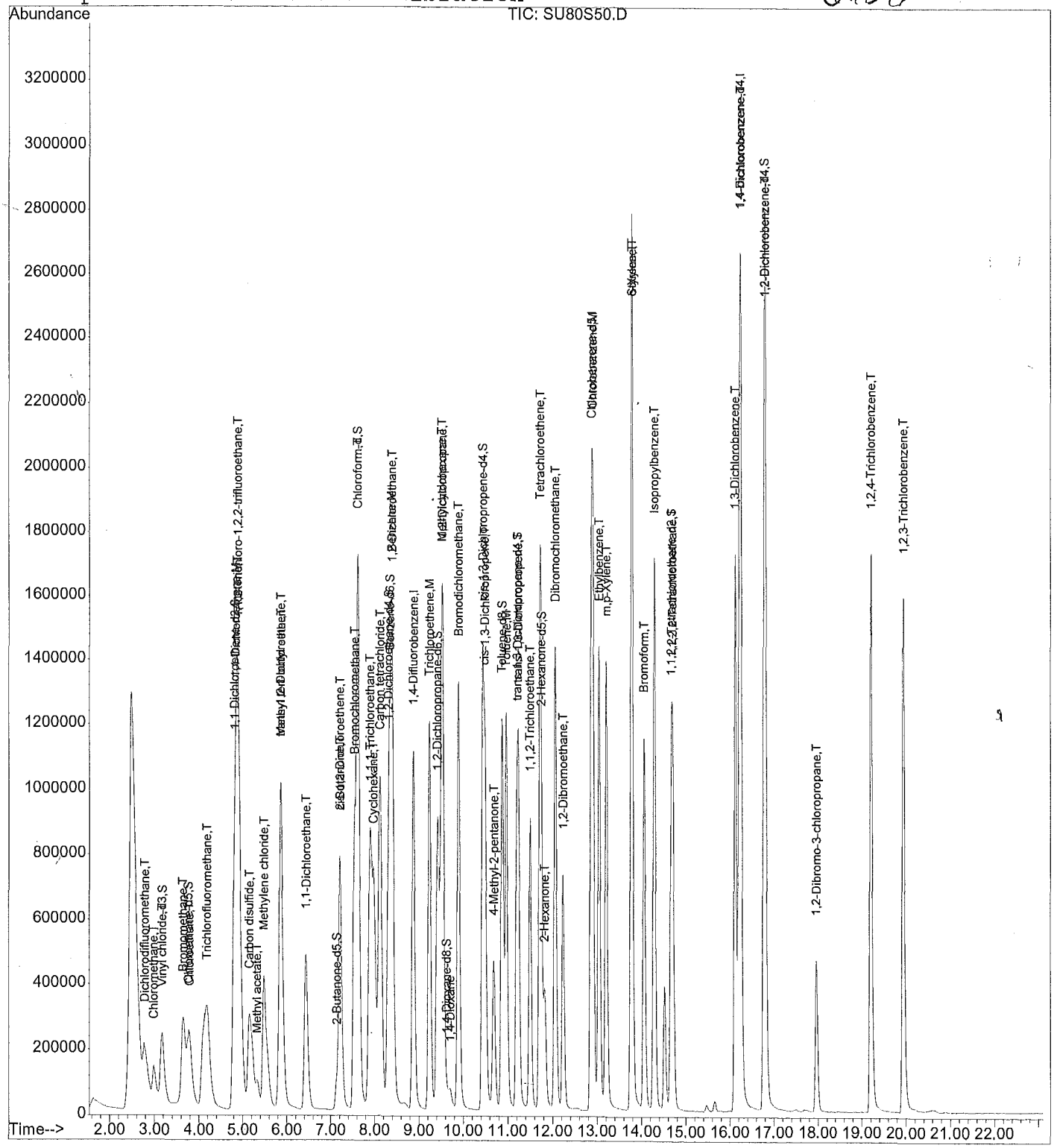
Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU80S50.D
Acq Time : 06/09/2015 17:03 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 9 17:26 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

6.10.15



88259

Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU80S50.D
Acq Time : 06/09/2015 17:03 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 9 17:26 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	1733598	50.00	ug/Kg	131.32
30) Chlorobenzene-d5	12.86	117	1432581	50.00	ug/Kg	133.83
62) 1,4-dichlorobenzene-d4	16.22	152	846184	50.00	ug/Kg	139.08
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	3.17	65	453865	41.03	ug/Kg	82.05%
8) Chloroethane-d5	3.76	69	462811	43.97	ug/Kg	87.94%
11) 1,1-Dichloroethene-d2	4.81	63	1601892	43.92	ug/Kg	87.83%
22) 2-Butanone-d5	7.14	46	311954	103.89	ug/Kg	103.89%
25) Chloroform-d	7.61	84	1648309	46.13	ug/Kg	92.27%
27) 1,2-Dichloroethane-d4	8.31	65	790024	48.37	ug/Kg	96.75%
29) 1,4-Dioxane-d8	9.64	96	59884	1184.93	ug/Kg	118.49%
35) Benzene-d6	8.34	84	1644488	46.68	ug/Kg	93.36%
39) 1,2-Dichloropropane-d6	9.42	67	822757	47.42	ug/Kg	94.83%
42) cis-1,3-Dichloropropene-d4	10.44	79	1431901	49.26	ug/Kg	98.52%
44) trans-1,3-Dichloropropene-	11.20	79	859470	51.28	ug/Kg	102.55%
49) Toluene-d8	10.87	98	1531407	48.05	ug/Kg	96.10%
52) 2-Hexanone-d5	11.76	63	229763	103.42	ug/Kg	103.42%
61) 1,1,2,2-Tetrachloroethane-	14.67	84	918225	51.31	ug/Kg	102.62%
67) 1,2-Dichlorobenzene-d4	16.78	152	784868	48.38	ug/Kg	96.77%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.80	85	705143	41.32	ug/Kg#	99
3) Chloromethane	2.99	50	371927	40.83	ug/Kg	97
4) Vinyl chloride	3.18	62	413506	43.54	ug/Kg	98
6) Bromomethane	3.64	94	629949	43.37	ug/Kg	100
7) Chloroethane	3.80	64	326402	45.33	ug/Kg	99
9) Trichlorofluoromethane	4.18	101	1473735	44.98	ug/Kg	100
10) 1,1-Dichloroethene	4.83	96	557400	44.83	ug/Kg	99
12) 1,1,2-Trichloro-1,2,2-trif	4.90	101	1368860	44.39	ug/Kg	99
13) Acetone	4.88	43	252680	78.19	ug/Kg	99
14) Carbon disulfide	5.16	76	1593072	43.05	ug/Kg	100
15) Methyl acetate	5.34	43	268897	50.57	ug/Kg	98
16) Methylene chloride	5.48	84	548181	45.18	ug/Kg	100
17) trans-1,2-Dichloroethene	5.87	96	617243	45.61	ug/Kg	100
18) Methyl tert-butyl ether	5.86	73	1045433	49.06	ug/Kg	99
19) 1,1-Dichloroethane	6.44	63	1217403	46.24	ug/Kg	100
20) cis-1,2-Dichloroethene	7.22	96	638246	46.26	ug/Kg	100
21) 2-Butanone	7.23	43	322591	85.92	ug/Kg	99
23) Bromochloromethane	7.54	128	427531	47.54	ug/Kg	97
24) Chloroform	7.63	83	1535781	46.26	ug/Kg	100

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

00269

Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU80S50.D
Acq Time : 06/09/2015 17:03 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 9 17:26 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	921785	50.26 ug/Kg	99
28)	1,4-Dioxane	9.71	88	62668	1139.09 ug/Kg	96
31)	1,1,1-Trichloroethane	7.89	97	1385167	45.34 ug/Kg	100
32)	Cyclohexane	7.98	56	761479	45.78 ug/Kg	97
33)	Carbon tetrachloride	8.12	117	1445923	46.09 ug/Kg	98
34)	Benzene	8.40	78	1557337	47.12 ug/Kg#	99
36)	Trichloroethene	9.24	95	802898	46.80 ug/Kg	99
37)	Methylcyclohexane	9.51	55	728660	46.05 ug/Kg	99
38)	1,2-Dichloropropane	9.54	63	634615	48.45 ug/Kg	98
40)	Bromodichloromethane	9.89	83	1668590	47.96 ug/Kg	99
41)	cis-1,3-Dichloropropene	10.49	75	1061699	49.71 ug/Kg	100
43)	trans-1,3-Dichloropropene	11.24	75	894296	51.61 ug/Kg	99
45)	1,1,2-Trichloroethane	11.50	97	512831	51.19 ug/Kg	99
46)	Dibromochloromethane	12.06	129	1340656	50.27 ug/Kg	98
47)	4-Methyl-2-pentanone	10.68	43	744126	100.84 ug/Kg	100
48)	Toluene	10.97	91	1680555	48.71 ug/Kg	100
50)	Tetrachloroethene	11.72	164	661942	48.72 ug/Kg	99
51)	2-Hexanone	11.82	43	556032	87.46 ug/Kg	99
53)	1,2-Dibromoethane	12.23	107	900361	51.18 ug/Kg	99
54)	Chlorobenzene	12.90	112	1366968	48.76 ug/Kg	100
55)	Ethylbenzene	13.04	91	2008607	48.40 ug/Kg	100
56)	m,p-Xylene	13.21	106	746276	49.11 ug/Kg	98
57)	o-Xylene	13.77	106	782082	49.47 ug/Kg	100
58)	Styrene	13.79	104	1322541	50.50 ug/Kg	98
59)	Isopropylbenzene	14.29	105	2331207	49.41 ug/Kg	99
60)	1,1,2,2-Tetrachloroethane	14.70	83	874111	51.65 ug/Kg	99
63)	Bromoform	14.06	173	881557	51.30 ug/Kg	100
64)	1,3-Dichlorobenzene	16.12	146	1175459	49.33 ug/Kg	98
65)	1,4-Dichlorobenzene	16.25	146	1284207	50.47 ug/Kg	98
66)	1,2-Dichlorobenzene	16.81	146	1196245	49.57 ug/Kg	99
68)	1,2-Dibromo-3-chloropropan	17.96	75	232835	51.81 ug/Kg	99
69)	1,2,4-Trichlorobenzene	19.21	180	909064	50.86 ug/Kg	100
70)	1,2,3-Trichlorobenzene	19.95	180	837593	52.69 ug/Kg	99

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

00261

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.: F9M21

Instrument ID: 5972-S Calibration Date: 06/10/2015 Time: 02:57

Lab File ID: SU99F50 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	0.411	0.010	-16.6	50.0
Chloromethane	0.263	0.226	0.010	-14.0	50.0
Vinyl chloride	0.274	0.241	0.010	-11.9	50.0
Bromomethane	0.419	0.372	0.010	-11.1	50.0
Chloroethane	0.208	0.184	0.010	-11.3	50.0
Trichlorofluoromethane	0.945	0.826	0.010	-12.6	50.0
1,1-Dichloroethene	0.359	0.325	0.010	-9.4	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.889	0.807	0.010	-9.3	50.0
Acetone	0.093	0.093	0.010	-0.2	50.0
Carbon disulfide	1.067	0.949	0.010	-11.0	50.0
Methyl acetate	0.153	0.147	0.010	-4.0	50.0
Methylene chloride	0.350	0.326	0.010	-6.8	50.0
trans-1,2-Dichloroethene	0.390	0.361	0.010	-7.4	50.0
Methyl tert-butyl ether	0.615	0.589	0.010	-4.1	50.0
1,1-Dichloroethane	0.759	0.705	0.010	-7.1	50.0
cis-1,2-Dichloroethene	0.398	0.372	0.010	-6.5	50.0
2-Butanone	0.108	0.101	0.010	-6.5	50.0
Bromochloromethane	0.259	0.253	0.010	-2.4	50.0
Chloroform	0.957	0.908	0.010	-5.2	50.0
1,1,1-Trichloroethane	1.066	0.972	0.010	-8.8	50.0
Cyclohexane	0.581	0.514	0.010	-11.5	50.0
Carbon tetrachloride	1.095	1.008	0.010	-8.0	50.0
Benzene	1.154	1.077	0.010	-6.6	50.0
1,2-Dichloroethane	0.529	0.522	0.010	-1.3	50.0
1,4-Dioxane	0.0016	0.0017	0.0050	7.2	50.0
Trichloroethene	0.599	0.557	0.010	-7.0	50.0
Methylcyclohexane	0.552	0.489	0.010	-11.4	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.: F9M21

Instrument ID: 5972-S Calibration Date: 06/10/2015 Time: 02:57

Lab File ID: SU99F50 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	0.437	0.010	-4.4	50.0
Bromodichloromethane	1.214	1.176	0.010	-3.1	50.0
cis-1,3-Dichloropropene	0.745	0.720	0.010	-3.5	50.0
4-Methyl-2-Pentanone	0.258	0.243	0.010	-5.5	50.0
Toluene	1.204	1.146	0.010	-4.8	50.0
trans-1,3-Dichloropropene	0.605	0.600	0.010	-0.8	50.0
1,1,2-Trichloroethane	0.350	0.353	0.010	0.8	50.0
Tetrachloroethene	0.474	0.457	0.010	-3.7	50.0
2-Hexanone	0.222	0.205	0.010	-7.5	50.0
Dibromochloromethane	0.931	0.959	0.010	3.1	50.0
1,2-Dibromoethane	0.614	0.636	0.010	3.6	50.0
Chlorobenzene	0.978	0.947	0.010	-3.3	50.0
Ethylbenzene	1.448	1.382	0.010	-4.6	50.0
o-Xylene	0.552	0.540	0.010	-2.2	50.0
m,p-Xylene	0.530	0.506	0.010	-4.6	50.0
Styrene	0.914	0.914	0.010	-0.1	50.0
Bromoform	1.015	1.039	0.010	2.3	50.0
Isopropylbenzene	1.647	1.591	0.010	-3.4	50.0
1,1,2,2-Tetrachloroethane	0.591	0.602	0.010	1.8	50.0
1,3-Dichlorobenzene	1.408	1.346	0.010	-4.4	50.0
1,4-Dichlorobenzene	1.504	1.491	0.010	-0.8	50.0
1,2-Dichlorobenzene	1.426	1.381	0.010	-3.2	50.0
1,2-Dibromo-3-chloropropane	0.266	0.255	0.010	-4.0	50.0
1,2,4-Trichlorobenzene	1.056	1.008	0.010	-4.6	50.0
1,2,3-Trichlorobenzene	0.939	0.914	0.010	-2.7	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.: F9M21

Instrument ID: 5972-S Calibration Date: 06/10/2015 Time: 02:57

Lab File ID: SU99F50 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	0.271	0.010	-15.2	50.0
Chloroethane-d5	0.304	0.265	0.010	-12.6	50.0
1,1-Dichloroethene-d2	1.052	0.938	0.010	-10.9	50.0
2-Butanone-d5	0.087	0.090	0.010	4.2	50.0
Chloroform-d	1.031	0.977	0.010	-5.2	50.0
1,2-Dichloroethane-d4	0.471	0.461	0.010	-2.1	50.0
Benzene-d6	1.230	1.140	0.010	-7.3	50.0
1,2-Dichloropropane-d6	0.606	0.575	0.010	-5.1	50.0
Toluene-d8	1.112	1.062	0.010	-4.6	50.0
trans-1,3-Dichloropropene-d4	0.585	0.579	0.010	-1.0	50.0
2-Hexanone-d5	0.078	0.079	0.010	1.5	50.0
1,4-Dioxane-d8	0.0015	0.0017	0.0050	18.1	50.0
1,1,2,2-Tetrachloroethane-d2	0.625	0.640	0.010	2.4	50.0
1,2-Dichlorobenzene-d4	0.959	0.928	0.010	-3.1	50.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

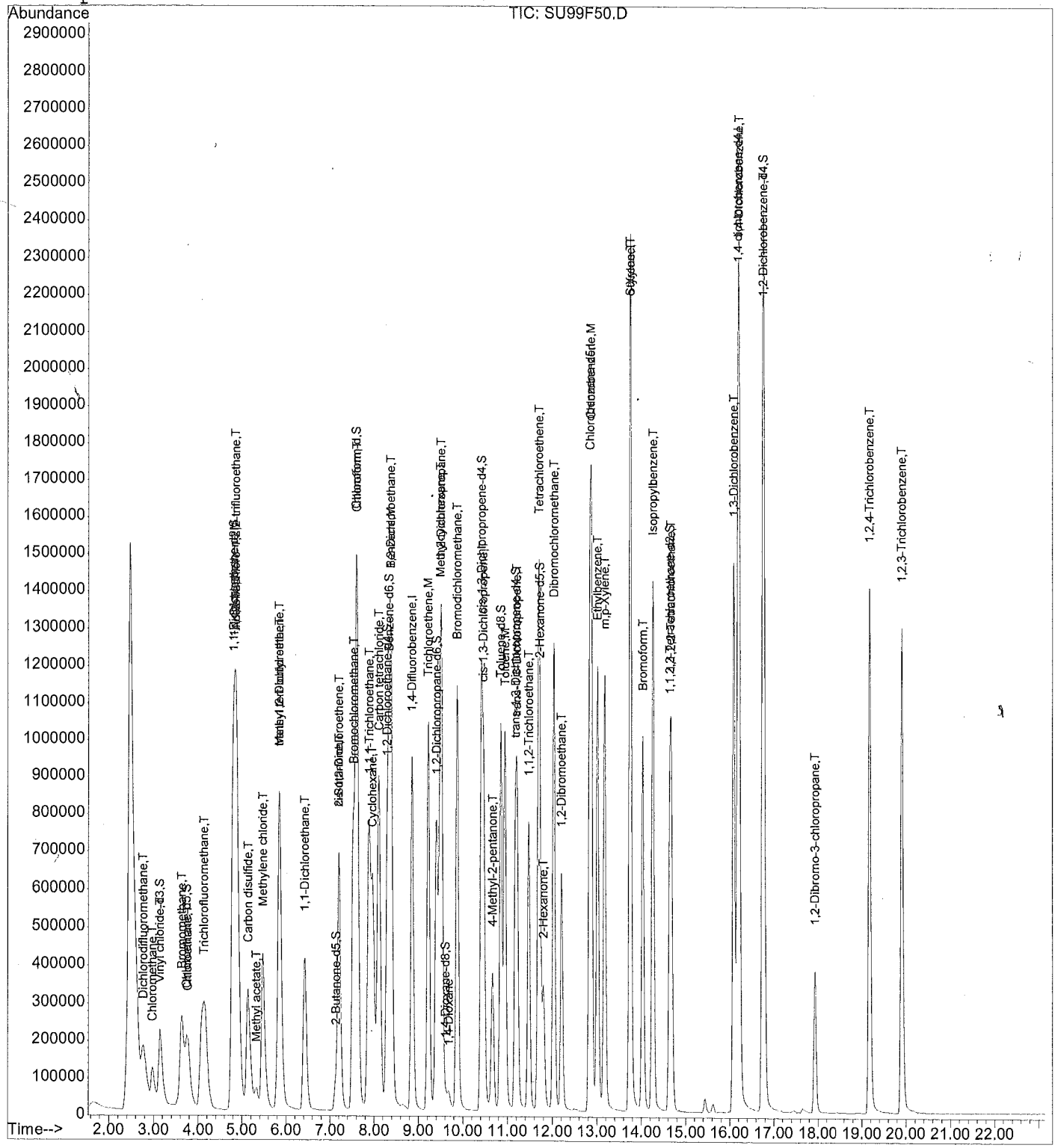
Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU99F50.D
Acq Time : 06/10/2015 02:57 Operator: CQC
Sample : VSTD050S4 VSTD050S4 50 ug/Kg FCS Inst : 5972-S
Misc : 2.5 uL of 28198, 28199 Multiplr: 1.00

Quant Time: Jun 10 3:19 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 16 17:27:26 2015
Response via : Initial Calibration

6.16.15



00265

Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU99F50.D
Acq Time : 06/10/2015 02:57 Operator: CQC
Sample : VSTD050S4 VSTD050S4 50 ug/Kg FCS Inst : 5972-S
Misc : 2.5 uL of 28198, 28199 Multiplr: 1.00

Quant Time: Jun 10 3:19 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	8.86	114	1459258	50.00	ug/Kg	110.54
30) Chlorobenzene-d5	12.83	117	1215256	50.00	ug/Kg	113.53
62) 1,4-dichlorobenzene-d4	16.18	152	733204	50.00	ug/Kg	120.51
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	3.15	65	394790	42.40	ug/Kg	84.79%
8) Chloroethane-d5	3.75	69	387317	43.71	ug/Kg	87.43%
11) 1,1-Dichloroethene-d2	4.80	63	1368290	44.56	ug/Kg	89.13%
22) 2-Butanone-d5	7.12	46	263455	104.23	ug/Kg	104.23%
25) Chloroform-d	7.59	84	1426128	47.42	ug/Kg	94.84%
27) 1,2-Dichloroethane-d4	8.29	65	672658	48.93	ug/Kg	97.86%
29) 1,4-Dioxane-d8	9.61	96	50256	1181.37	ug/Kg	118.14%
35) Benzene-d6	8.32	84	1385070	46.35	ug/Kg	92.69%
39) 1,2-Dichloropropane-d6	9.40	67	698638	47.46	ug/Kg	94.93%
42) cis-1,3-Dichloropropene-d4	10.42	79	1191193	48.31	ug/Kg	96.61%
44) trans-1,3-Dichloropropene-	11.17	79	703938	49.51	ug/Kg	99.02%
49) Toluene-d8	10.84	98	1290229	47.72	ug/Kg	95.44%
52) 2-Hexanone-d5	11.73	63	191263	101.49	ug/Kg	101.49%
61) 1,1,2,2-Tetrachloroethane-	14.63	84	777272	51.20	ug/Kg	102.40%
67) 1,2-Dichlorobenzene-d4	16.75	152	680727	48.43	ug/Kg	96.86%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.77	85	599295	41.72	ug/Kg#	100
3) Chloromethane	2.97	50	329639	42.99	ug/Kg	99
4) Vinyl chloride	3.15	62	352296	44.07	ug/Kg	100
6) Bromomethane	3.63	94	543349	44.44	ug/Kg	99
7) Chloroethane	3.77	64	268684	44.33	ug/Kg	100
9) Trichlorofluoromethane	4.14	101	1205241	43.70	ug/Kg	99
10) 1,1-Dichloroethene	4.81	96	474331	45.32	ug/Kg	98
12) 1,1,2-Trichloro-1,2,2-trif	4.87	101	1177518	45.36	ug/Kg	99
13) Acetone	4.87	43	271536	99.83	ug/Kg	100
14) Carbon disulfide	5.14	76	1385527	44.48	ug/Kg	99
15) Methyl acetate	5.32	43	214757	47.98	ug/Kg	99
16) Methylene chloride	5.47	84	475976	46.60	ug/Kg	99
17) trans-1,2-Dichloroethene	5.85	96	527192	46.28	ug/Kg	99
18) Methyl tert-butyl ether	5.84	73	860185	47.95	ug/Kg	100
19) 1,1-Dichloroethane	6.43	63	1029310	46.44	ug/Kg	99
20) cis-1,2-Dichloroethene	7.20	96	542697	46.73	ug/Kg	100
21) 2-Butanone	7.20	43	295496	93.50	ug/Kg	99
23) Bromochloromethane	7.53	128	369565	48.82	ug/Kg	96
24) Chloroform	7.62	83	1324361	47.39	ug/Kg	99

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

00266

Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU99F50.D
Acq Time : 06/10/2015 02:57 Operator: CQC
Sample : VSTD050S4 VSTD050S4 50 ug/Kg FCS Inst : 5972-S
Misc : 2.5 uL of 28198, 28199 Multiplr: 1.00

Quant Time: Jun 10 3:19 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	8.38	62	761987	49.36 ug/Kg	99
28)	1,4-Dioxane	9.69	88	49650	1072.13 ug/Kg	96
31)	1,1,1-Trichloroethane	7.88	97	1181644	45.60 ug/Kg	100
32)	Cyclohexane	7.97	56	624166	44.24 ug/Kg	99
33)	Carbon tetrachloride	8.11	117	1224809	46.02 ug/Kg	99
34)	Benzene	8.37	78	1308871	46.68 ug/Kg#	98
36)	Trichloroethene	9.22	95	676461	46.48 ug/Kg	99
37)	Methylcyclohexane	9.49	55	594621	44.29 ug/Kg	99
38)	1,2-Dichloropropane	9.52	63	530949	47.78 ug/Kg	97
40)	Bromodichloromethane	9.87	83	1429104	48.43 ug/Kg	99
41)	cis-1,3-Dichloropropene	10.47	75	874448	48.27 ug/Kg	99
43)	trans-1,3-Dichloropropene	11.22	75	728787	49.58 ug/Kg	98
45)	1,1,2-Trichloroethane	11.47	97	428401	50.41 ug/Kg	99
46)	Dibromochloromethane	12.03	129	1165811	51.53 ug/Kg	98
47)	4-Methyl-2-pentanone	10.67	43	591462	94.49 ug/Kg	100
48)	Toluene	10.94	91	1393257	47.60 ug/Kg	100
50)	Tetrachloroethene	11.69	164	554853	48.14 ug/Kg	100
51)	2-Hexanone	11.80	43	498839	92.49 ug/Kg	99
53)	1,2-Dibromoethane	12.20	107	772844	51.78 ug/Kg	100
54)	Chlorobenzene	12.87	112	1150241	48.37 ug/Kg	99
55)	Ethylbenzene	13.01	91	1679556	47.71 ug/Kg	100
56)	m,p-Xylene	13.18	106	615031	47.71 ug/Kg	99
57)	o-Xylene	13.74	106	656089	48.92 ug/Kg	99
58)	Styrene	13.76	104	1110150	49.97 ug/Kg	99
59)	Isopropylbenzene	14.26	105	1932996	48.30 ug/Kg	99
60)	1,1,2,2-Tetrachloroethane	14.67	83	730977	50.92 ug/Kg	99
63)	Bromoform	14.03	173	761709	51.16 ug/Kg	100
64)	1,3-Dichlorobenzene	16.09	146	986988	47.80 ug/Kg	99
65)	1,4-Dichlorobenzene	16.22	146	1093426	49.59 ug/Kg	97
66)	1,2-Dichlorobenzene	16.77	146	1012422	48.42 ug/Kg	99
68)	1,2-Dibromo-3-chloropropan	17.93	75	186882	48.00 ug/Kg	97
69)	1,2,4-Trichlorobenzene	19.17	180	738787	47.71 ug/Kg	100
70)	1,2,3-Trichlorobenzene	19.91	180	670481	48.67 ug/Kg	99

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

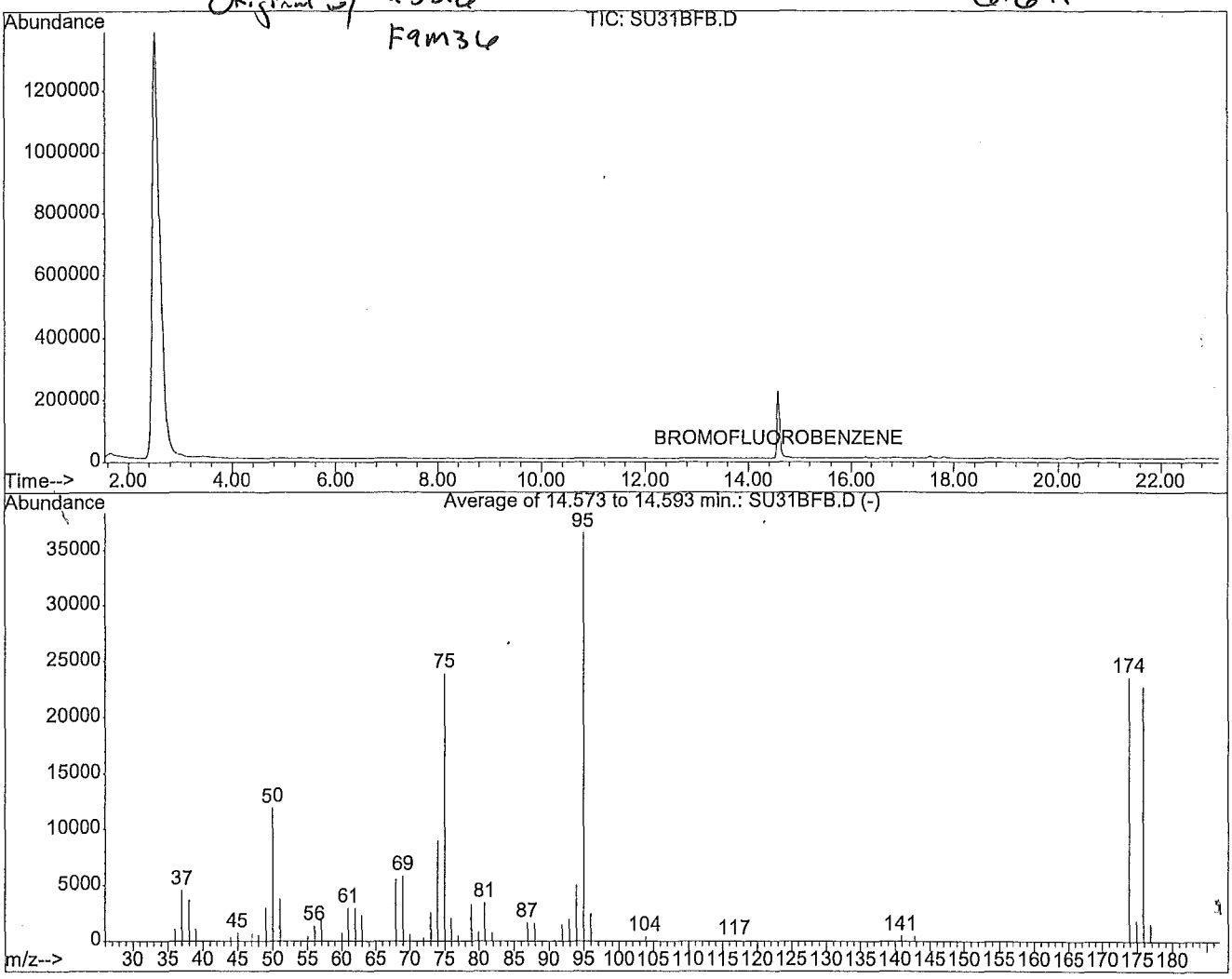
00267

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/ 415316 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						

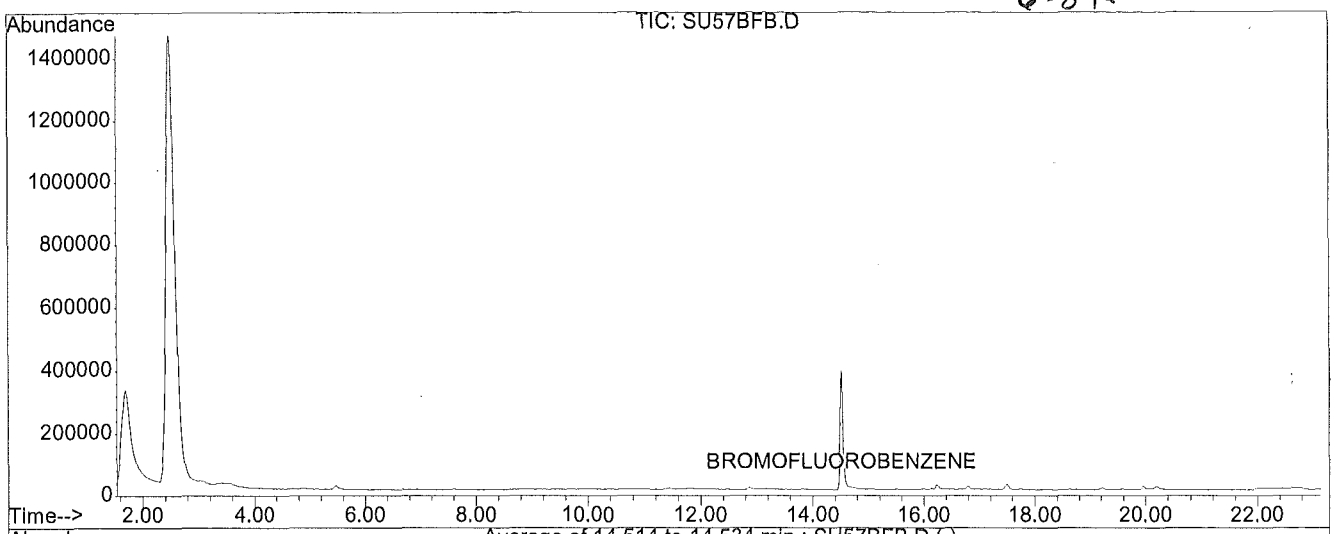
SOM01.1 BFB

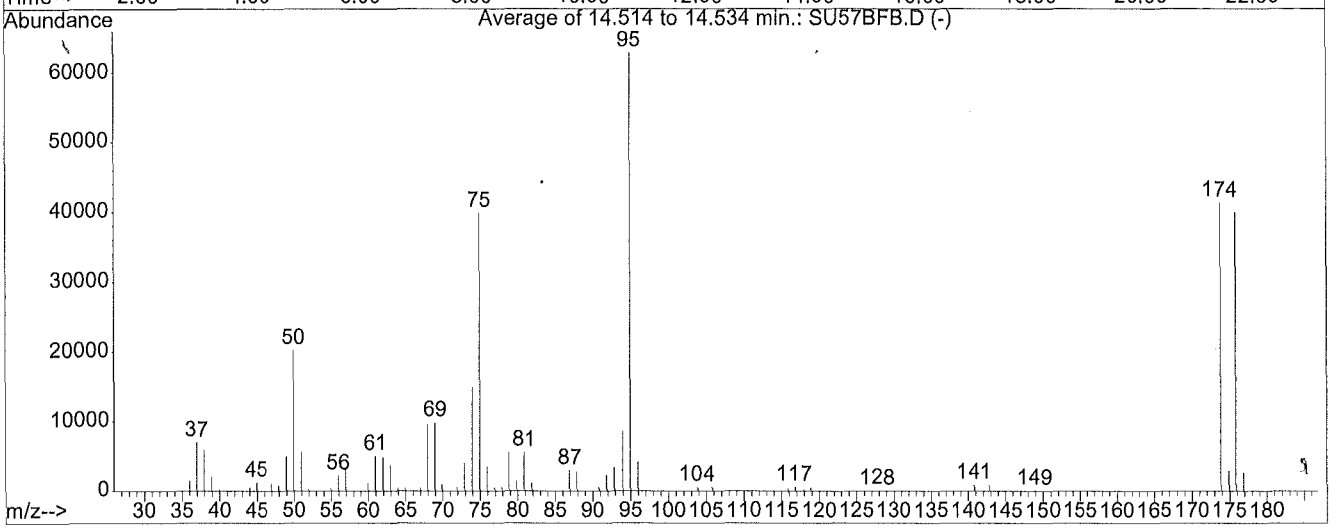
Data File : D:\HPCHEM\1\DATA\08JUN15S\SU57BFB.D
Acq Time : 06/08/2015 16:17
Sample : BFBS1 50 ng BFB
Misc : 2.0 uL of 28268

Operator: CQC
Inst : 5972-S
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\BFB_SOM.M (RTE Integrator)
Title :

6-8-15





Peak Apex is scan: 1320
Average of 3 Scans: 1319,1320,1321 minus Background scan: 1311

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	32.2	20237	PASS
75	95	30	80	63.3	39811	PASS
95	95	100	100	100.0	62885	PASS
96	95	5	9	6.8	4266	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	65.7	41320	PASS
175	174	5	9	7.2	2995	PASS
176	174	95	101	96.8	40013	PASS
177	176	5	9	6.8	2723	PASS

BFBS1 50 ng BFB 5972-S 06/08/2015 16:17 5972-S

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU57BFB.D
Inject Time: 06/08/2015 16:17 Operator:CQC
Sample : BFBS1 5 Inst :5972-S
Misc : 2.0 uL of 28268

Average of 14.514 to 14.534 min.: SU57BFB.D
BFBS1 50 ng BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	1585	50.00	20237	65.00	423	77.95	627
37.00	7050	51.00	5649	67.00	423	78.90	5563
38.00	5978	52.00	330	68.00	9617	79.90	1398
39.00	2051	55.00	343	69.00	9846	80.90	5596
40.00	264	56.00	2235	69.95	979	81.90	1161
43.00	69	57.00	3092	71.95	537	86.95	2960
44.00	556	60.00	1186	72.95	3987	87.90	2700
45.00	1259	61.00	5051	74.00	14954	90.85	564
47.00	1130	62.00	4801	75.00	39811	91.90	2396
48.00	795	63.00	3752	76.00	3585	92.90	3358
49.00	4958	64.00	442	76.95	482	94.00	8654

Average of 14.514 to 14.534 min.: SU57BFB.D
BFBS1 50 ng BFB
Modified:subtracted

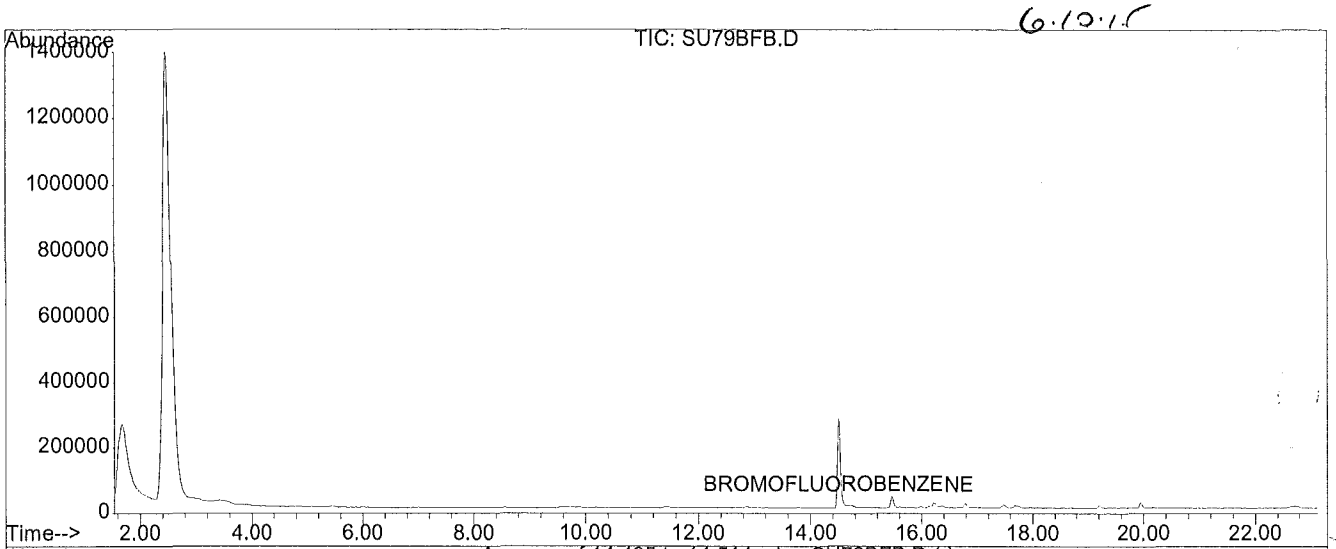
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.00	62885	148.95	141				
96.00	4266	173.85	41320				
103.85	568	174.90	2995				
105.80	560	175.85	40013				
115.85	414	176.85	2723				
116.80	639						
117.90	297						
118.85	496						
127.80	120						
140.85	928						
142.85	889						

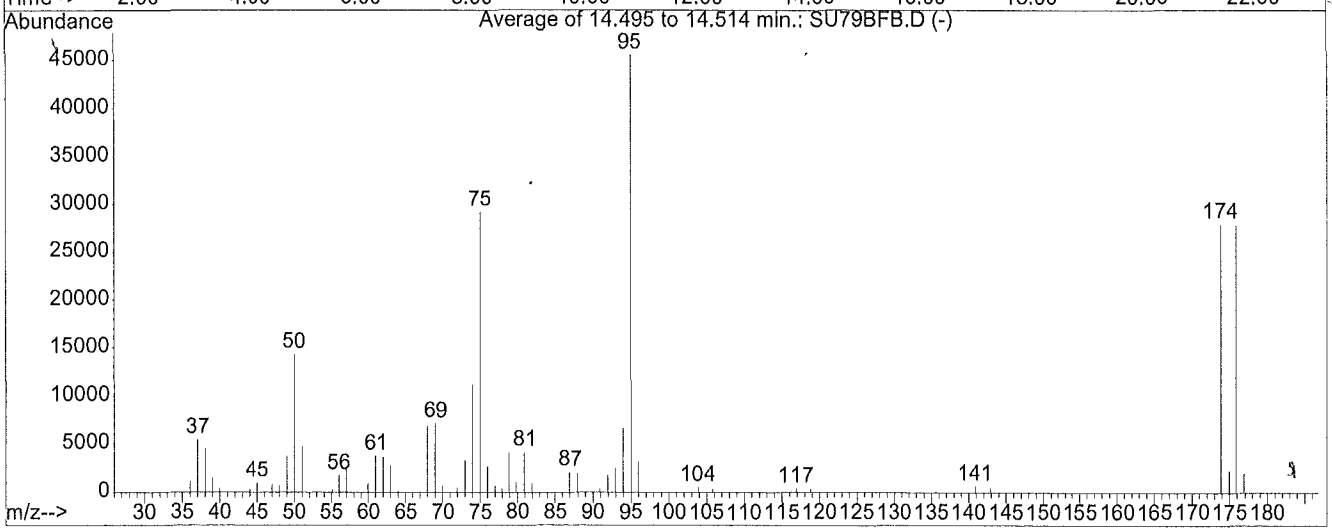
SOM01.1 BFB

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU79BFB.D
Acq Time : 06/09/2015 16:32 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 :

6.12.15





Peak Apex is scan: 1318
Average of 3 Scans: 1317,1318,1319 minus Background scan: 1310

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	31.4	14319	PASS
75	95	30	80	64.1	29203	PASS
95	95	100	100	100.0	45544	PASS
96	95	5	9	6.9	3134	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	61.3	27925	PASS
175	174	5	9	8.2	2282	PASS
176	174	95	101	99.9	27907	PASS
177	176	5	9	7.1	1985	PASS

BFBS2 50 ng BFB 5972-S 06/09/2015 16:32 5972-S

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU79BFB.D
Inject Time: 06/09/2015 16:32 Operator:CQC
Sample : BFBS2 5 Inst :5972-S
Misc : 2.0 uL of 28268

Average of 14.495 to 14.514 min.: SU79BFB.D
BFBS2 50 ng BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1176	49.00	3716	67.00	134	78.90	4139
37.00	5421	50.00	14319	68.00	6884	79.85	1036
38.05	4476	51.00	4684	69.00	7131	80.90	4129
39.00	1443	55.05	326	70.00	694	81.90	956
40.00	424	56.00	1731	71.95	429	86.95	2077
41.00	68	57.00	2859	73.00	3292	87.95	1945
43.00	111	59.95	885	74.00	11136	90.85	399
44.00	347	61.00	3752	75.00	29203	91.95	1769
45.00	966	62.00	3639	76.00	2684	92.90	2513
47.00	804	63.00	2747	77.00	642	93.95	6642
48.00	680	64.00	167	77.95	411	95.00	45544

Average of 14.495 to 14.514 min.: SU79BFB.D
BFBS2 50 ng BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.95	3134						
103.85	514						
105.80	380						
116.85	420						
118.80	355						
140.90	653						
142.85	512						
173.85	27925						
174.95	2282						
175.85	27907						
176.85	1985						

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.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450610

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SU59BLK

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 06/08/2015

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	1.8	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.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450610

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SU59BLK

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 06/08/2015

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	0.31	J
106-46-7	1,4-Dichlorobenzene	0.36	J
95-50-1	1,2-Dichlorobenzene	0.38	J
96-12-8	1,2-Dibromo-3-chloropropane	0.81	J
120-82-1	1,2,4-Trichlorobenzene	0.77	J
87-61-6	1,2,3-Trichlorobenzene	1.3	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.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450610

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SU59BLK

Level: (TRACE or LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 06/08/2015

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.

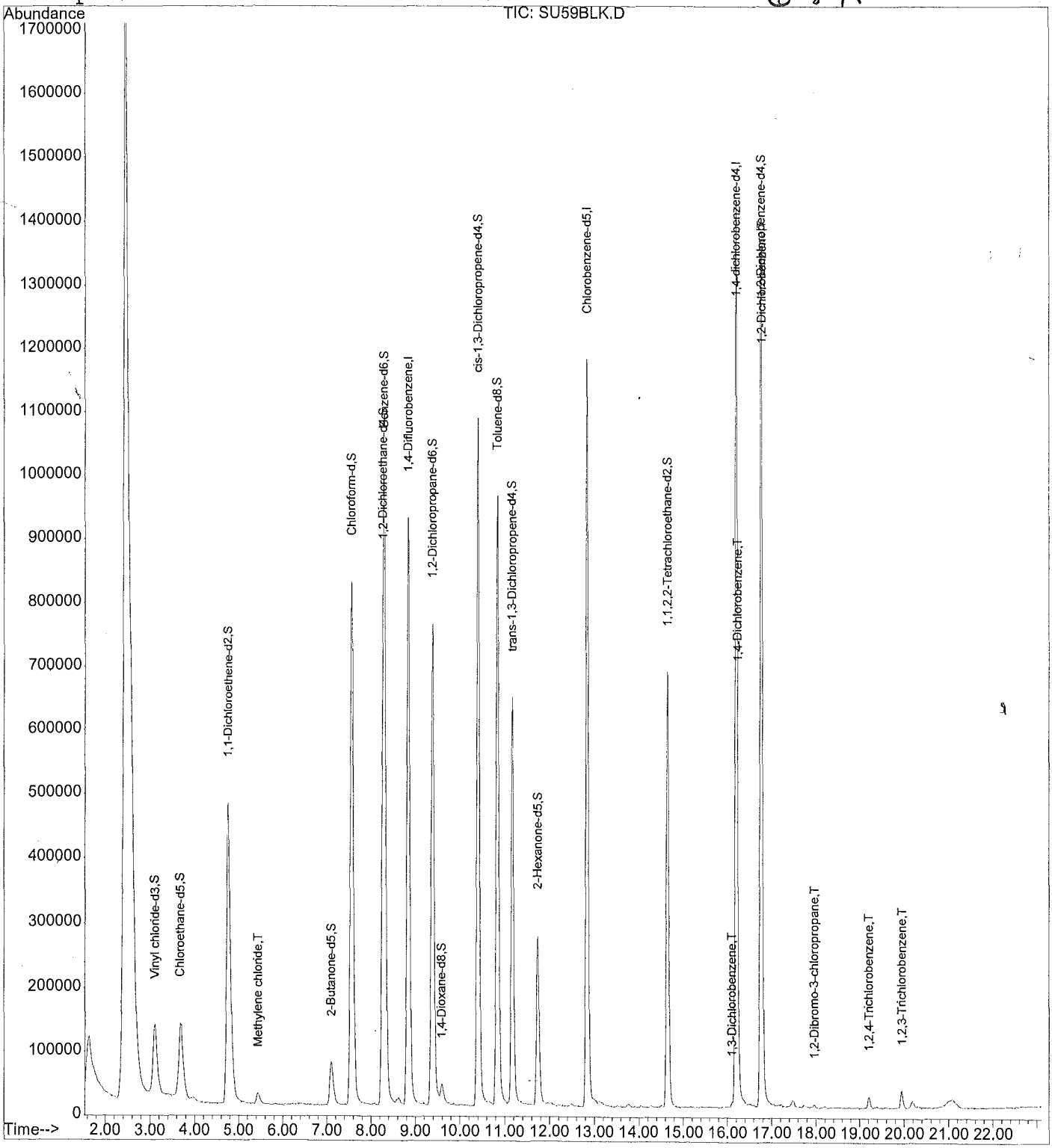
Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU59BLK.D
Acq Time : 06/08/2015 17:45 Operator: CQC
Sample : 450610 VBLKS1 Inst : 5972-S
Misc : 2.5 uL of 28198 Multiplr: 1.00

Quant Time: Jun 8 18:21 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

6.8.15



00277

Quantitation Report

Data File : D:\HPCHEM\1\DATA\08JUN15S\SU59BLK.D
Acq Time : 06/08/2015 17:45 Operator: CQC
Sample : 450610 VBLKS1 Inst : 5972-S
Misc : 2.5 uL of 28198 Multiplr: 1.00

Quant Time: Jun 8 18:21 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	8.84	114	1464409	50.00 ug/Kg	110.93
30) Chlorobenzene-d5	12.83	117	1103657	50.00 ug/Kg	103.11
62) 1,4-dichlorobenzene-d4	16.20	152	652623	50.00 ug/Kg	107.27
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.11	65	464265	49.68 ug/Kg	99.36%
8) Chloroethane-d5	3.68	69	438658	49.33 ug/Kg	98.67%
11) 1,1-Dichloroethene-d2	4.75	63	1196148	38.82 ug/Kg	77.64%
22) 2-Butanone-d5	7.10	46	245615	96.83 ug/Kg	96.83%
25) Chloroform-d	7.56	84	1475017	48.87 ug/Kg	97.74%
27) 1,2-Dichloroethane-d4	8.26	65	677463	49.11 ug/Kg	98.21%
29) 1,4-Dioxane-d8	9.59	96	46466	1088.43 ug/Kg	108.84%
35) Benzene-d6	8.30	84	1442433	53.15 ug/Kg	106.29%
39) 1,2-Dichloropropane-d6	9.38	67	662914	49.59 ug/Kg	99.18%
42) cis-1,3-Dichloropropene-d4	10.40	79	1158474	51.73 ug/Kg	103.46%
44) trans-1,3-Dichloropropene-	11.16	79	656403	50.83 ug/Kg	101.67%
49) Toluene-d8	10.83	98	1221125	49.73 ug/Kg	99.47%
52) 2-Hexanone-d5	11.73	63	201113	117.51 ug/Kg	117.51%
61) 1,1,2,2-Tetrachloroethane-	14.64	84	704447	51.10 ug/Kg	102.19%
67) 1,2-Dichlorobenzene-d4	16.77	152	630919	50.43 ug/Kg	100.86%
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	5.43	84	17981	1.75 ug/Kg#	89
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

00278

Quantitation Report

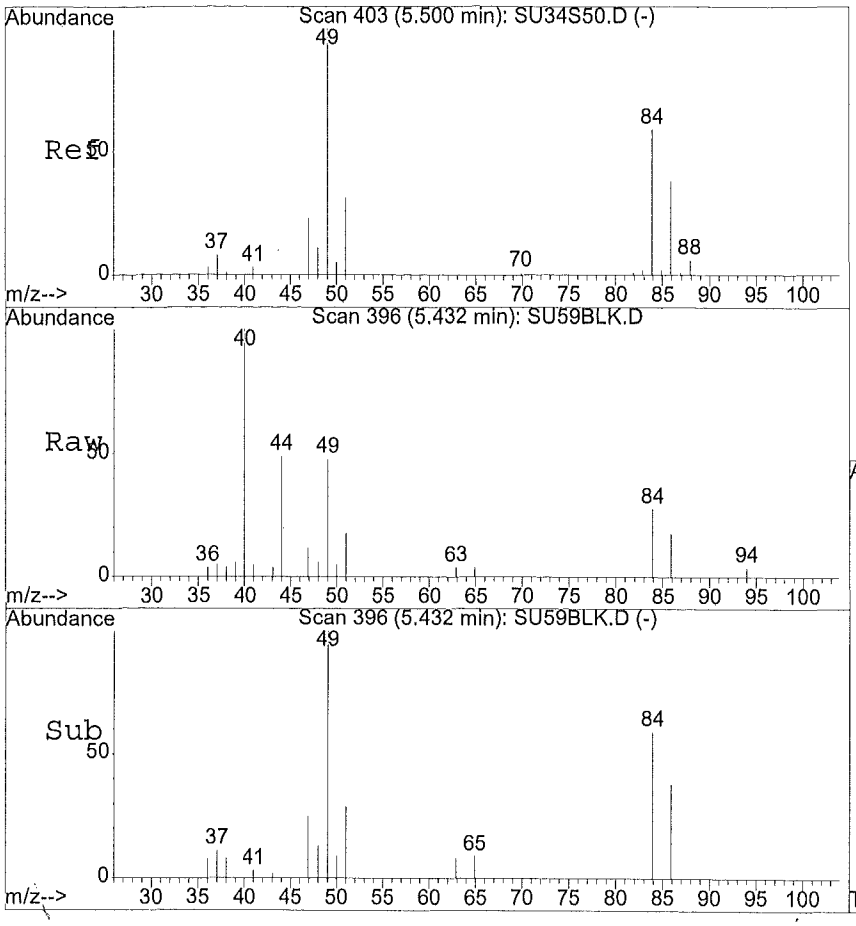
Data File : D:\HPCHEM\1\DATA\08JUN15S\SU59BLK.D
Acq Time : 06/08/2015 17:45 Operator: CQC
Sample : 450610 VBLKS1 Inst : 5972-S
Misc : 2.5 uL of 28198 Multiplr: 1.00

Quant Time: Jun 8 18:21 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	16.11	146	5668	0.31 ug/Kg#	1
65)	1,4-Dichlorobenzene	16.24	146	7018	0.36 ug/Kg#	1
66)	1,2-Dichlorobenzene	16.79	146	7094	0.38 ug/Kg#	1
68)	1,2-Dibromo-3-chloropropan	17.95	75	2794	0.81 ug/Kg	79
69)	1,2,4-Trichlorobenzene	19.22	180	10659	0.77 ug/Kg	97
70)	1,2,3-Trichlorobenzene	19.95	180	15633	1.28 ug/Kg	97

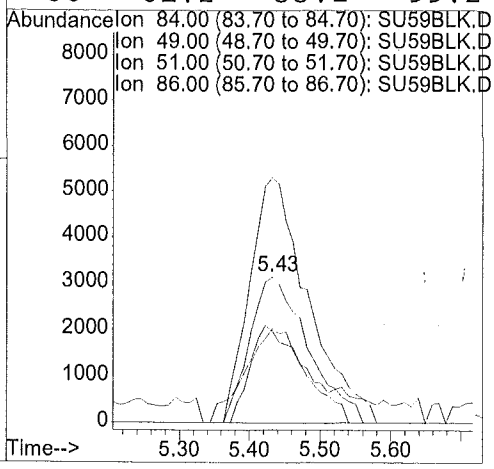
(#) = qualifier out of range (m) = manual integration

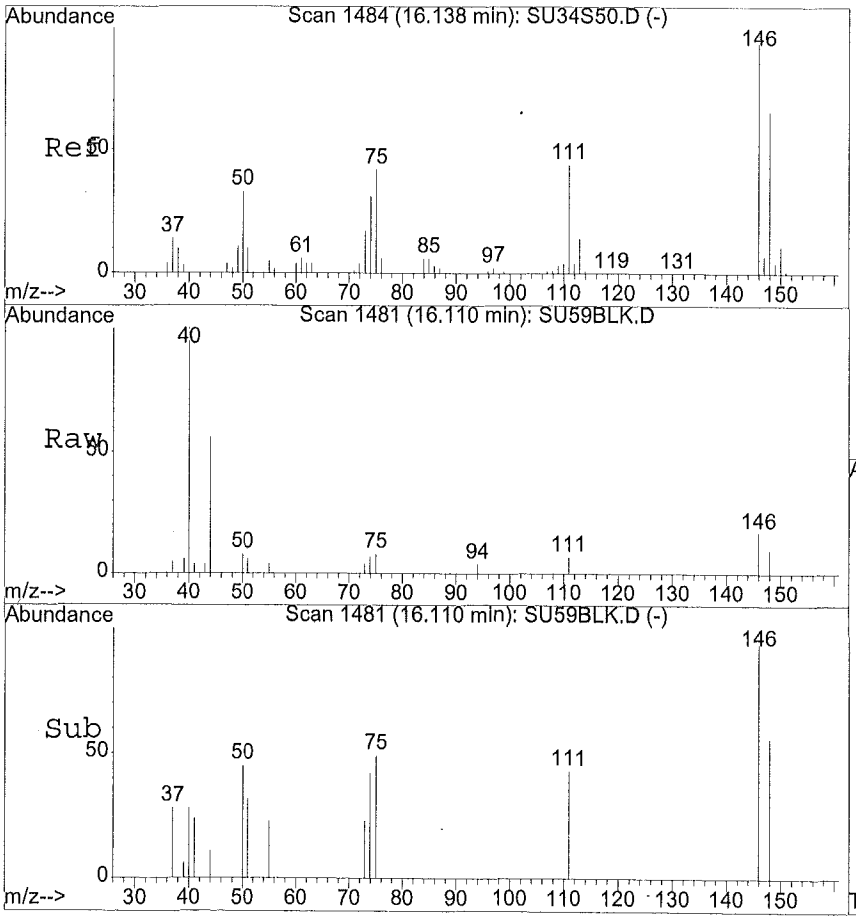


#16
Methylene chloride
Concen: 1.75 ug/Kg
RT: 5.43 min Scan# 396
Delta R.T. -0.07 min
Lab File: SU59BLK.D
Acq: 06/08/2015 17:45

Tgt Ion:84 Resp: 17981

Ion	Ratio	Lower	Upper
84	100		
49	168.8	85.4	256.1
51	88.8	26.8	80.4#
86	61.2	33.1	99.2

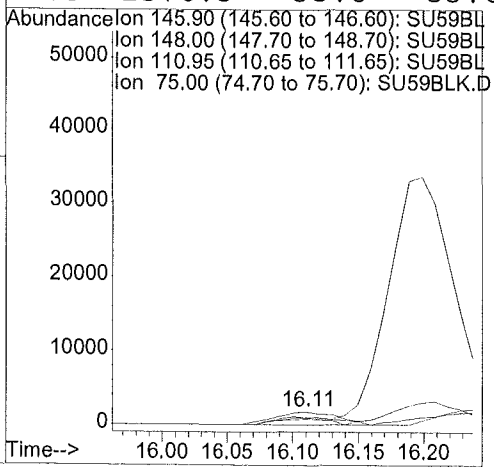


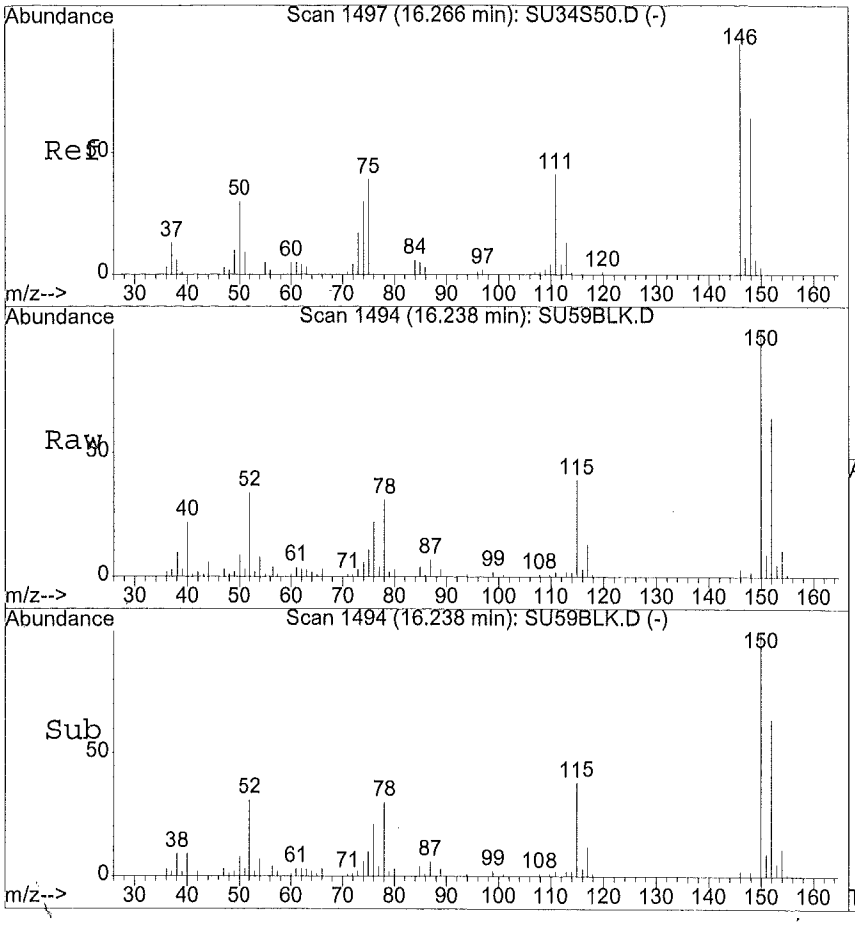


#64
1,3-Dichlorobenzene
Concen: 0.31 ug/Kg
RT: 16.11 min Scan# 1481
Delta R.T. -0.03 min
Lab File: SU59BLK.D
Acq: 06/08/2015 17:45

Tgt Ion:145.9 Resp: 5668

Ion	Ratio	Lower	Upper
146	100		
148	67.0	51.8	77.6
111	0.0	35.9	53.9#
75	1576.5	35.8	53.6#

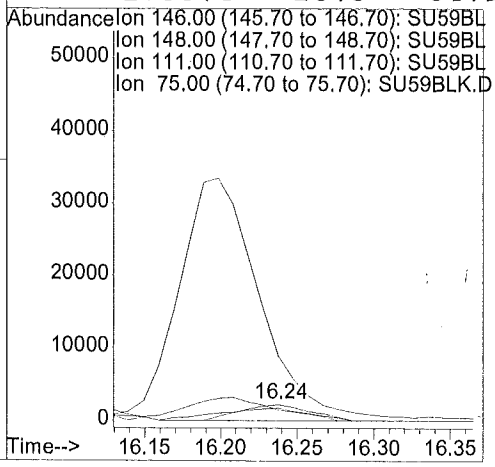


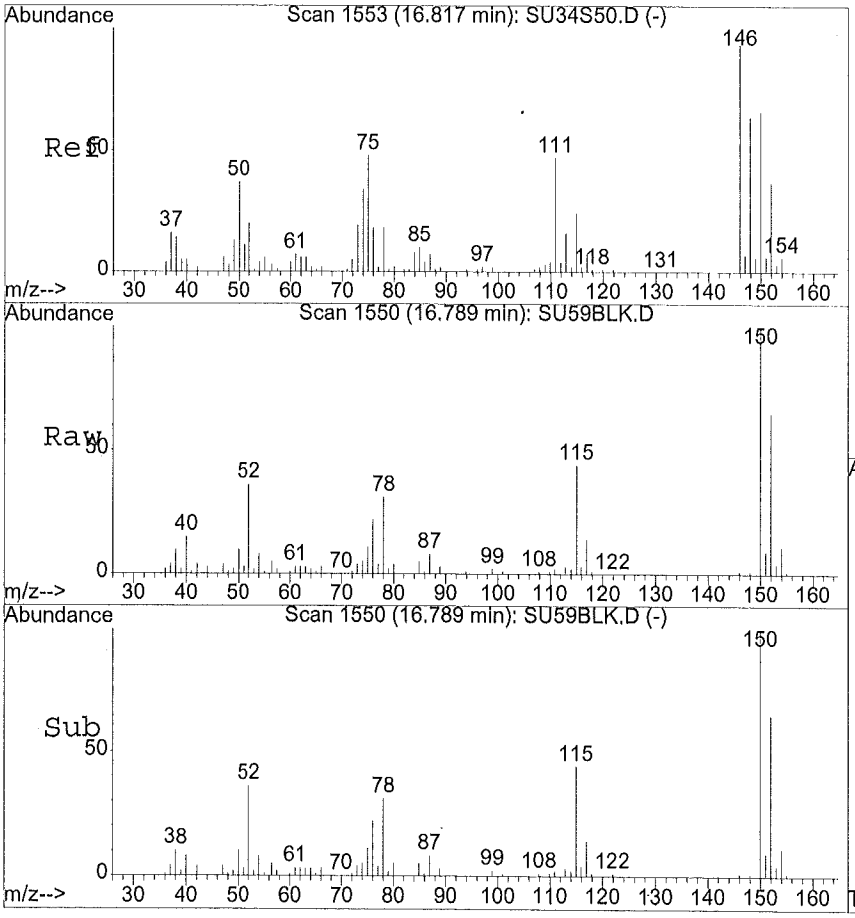


#65
1,4-Dichlorobenzene
Concen: 0.36 ug/Kg
RT: 16.24 min Scan# 1494
Delta R.T. -0.03 min
Lab File: SU59BLK.D
Acq: 06/08/2015 17:45

Tgt Ion:146 Resp: 7018

Ion	Ratio	Lower	Upper
146	100		
148	96.2	32.2	96.6
111	180.7	21.9	65.5#
75	1755.4	28.3	84.9#

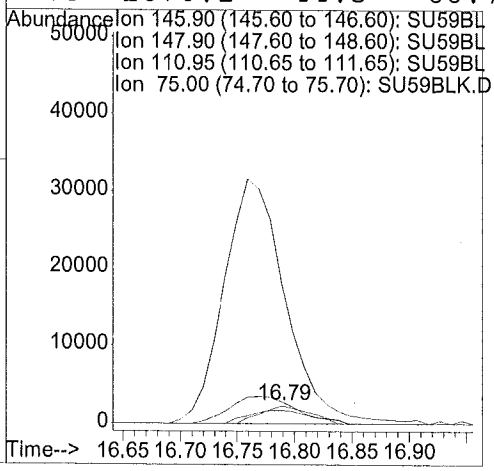




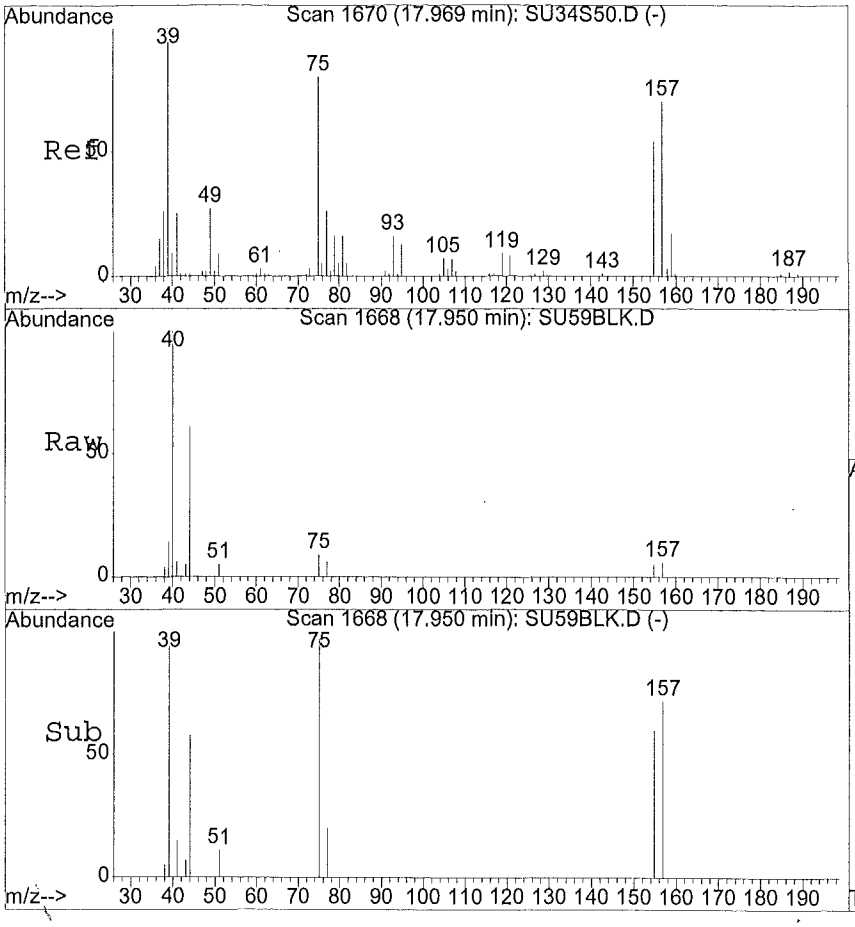
#66
1,2-Dichlorobenzene
Concen: 0.38 ug/Kg
RT: 16.79 min Scan# 1550
Delta R.T. -0.03 min
Lab File: SU59BLK.D
Acq: 06/08/2015 17:45

Tgt Ion:145.9 Resp: 7094

Ion	Ratio	Lower	Upper
146	100		
148	92.6	52.6	78.8#
111	194.2	38.3	57.5#
75	1670.1	44.5	66.7#



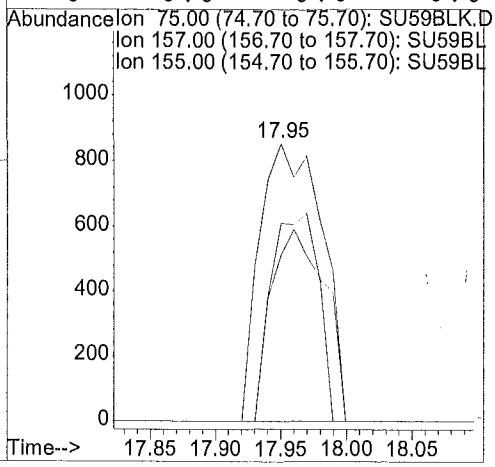
00291

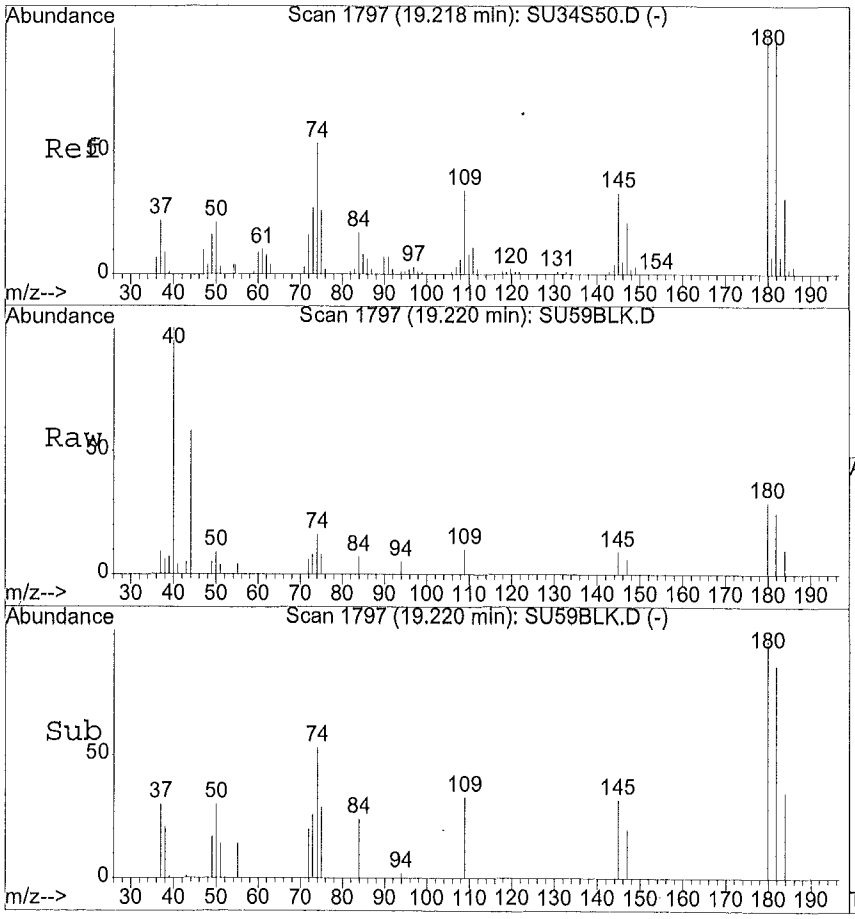


#68
1,2-Dibromo-3-chloropropane
Concen: 0.81 ug/Kg
RT: 17.95 min Scan# 1668
Delta R.T. -0.02 min
Lab File: SU59BLK.D
Acq: 06/08/2015 17:45

Tgt Ion:75 Resp: 2794

Ion	Ratio	Lower	Upper
75	100		
157	65.0	43.0	129.0
155	51.5	33.1	99.5
0	0.0	0.0	0.0

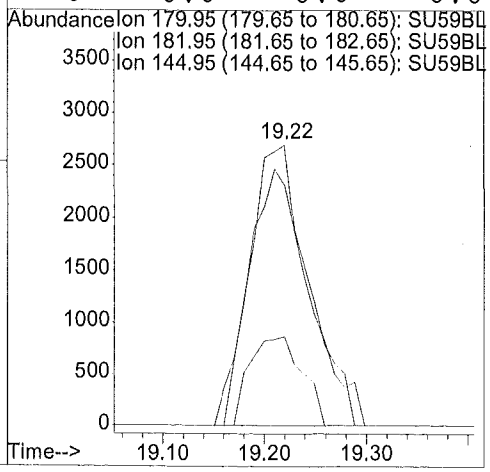




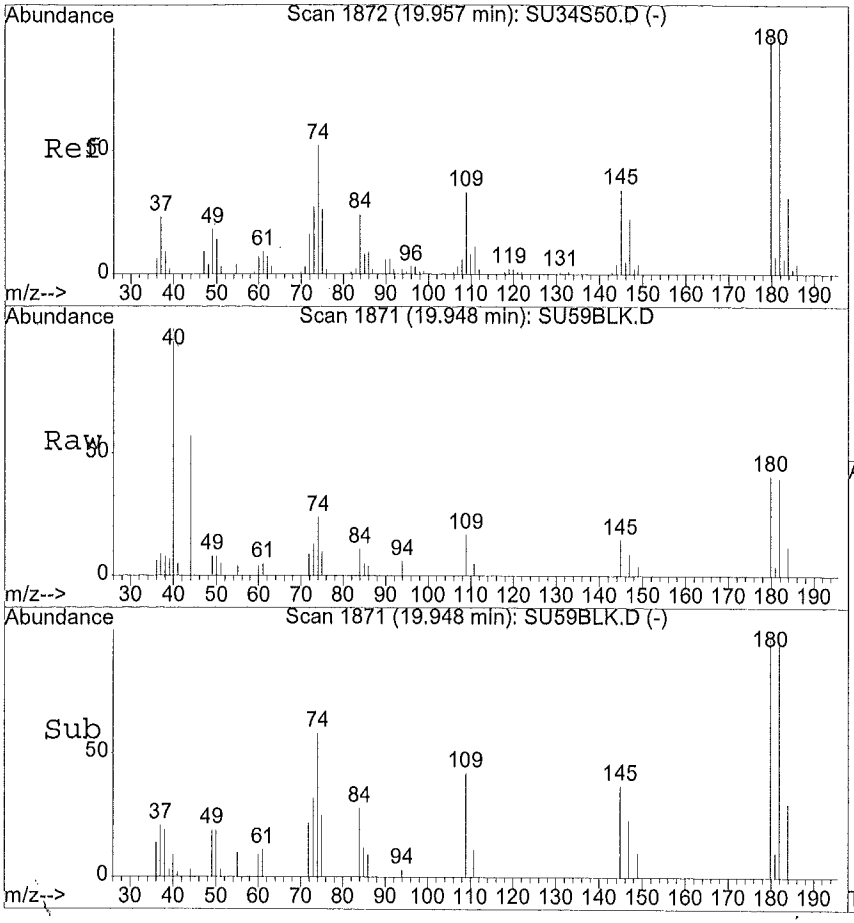
#69
1,2,4-Trichlorobenzene
Concen: 0.77 ug/Kg
RT: 19.22 min Scan# 1797
Delta R.T. 0.00 min
Lab File: SU59BLK.D
Acq: 06/08/2015 17:45

Tgt Ion:179.95 Resp: 10659

Ion	Ratio	Lower	Upper
180	100		
182	97.0	76.8	115.2
145	29.0	26.5	39.7
0	0.0	0.0	0.0



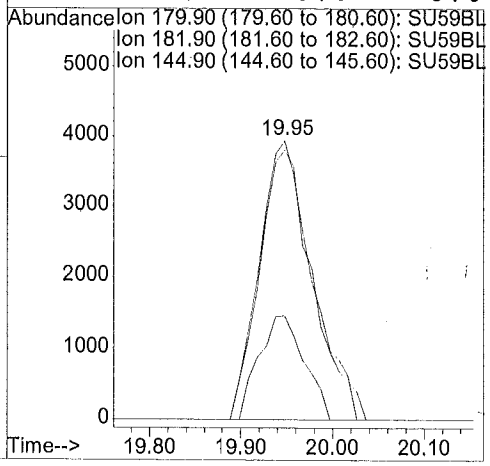
00292



#70
1,2,3-Trichlorobenzene
Concen: 1.28 ug/Kg
RT: 19.95 min Scan# 1871
Delta R.T. -0.01 min
Lab File: SU59BLK.D
Acq: 06/08/2015 17:45

Tgt Ion:179.9 Resp: 15633

Ion	Ratio	Lower	Upper
180	100		
182	97.6	76.4	114.6
145	32.2	27.8	41.8
0	0.0	0.0	0.0



00293

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.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450611

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SU81BLK

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 06/09/2015

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	0.21	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.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450611

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SU81BLK

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 06/09/2015

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	0.31	J
106-46-7	1,4-Dichlorobenzene	0.36	J
95-50-1	1,2-Dichlorobenzene	0.34	J
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	0.75	J
87-61-6	1,2,3-Trichlorobenzene	1.2	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.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450611

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SU81BLK

Level: (TRACE or LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 06/09/2015

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		

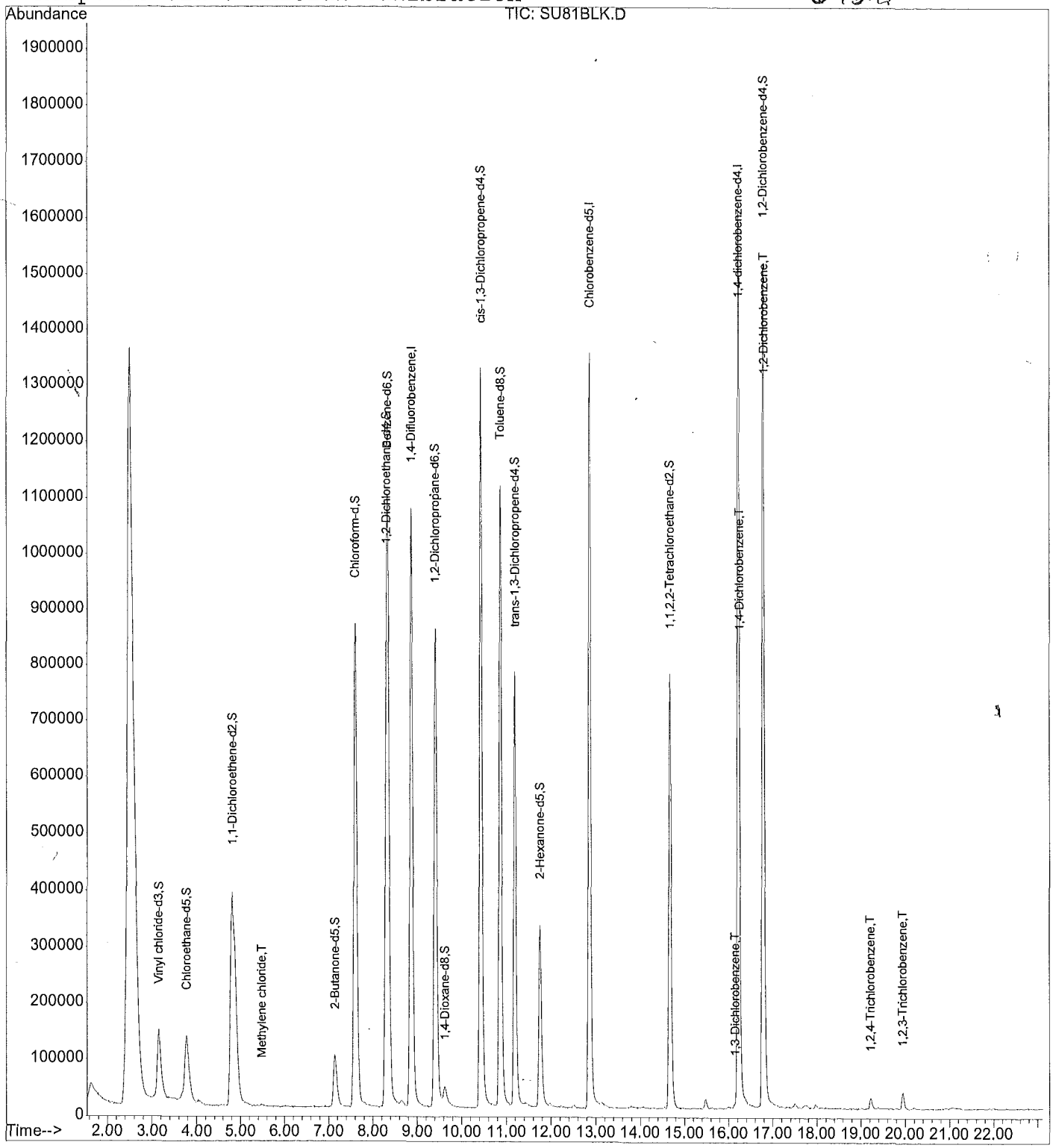
[1] EPA-designated Registry Number.

Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU81BLK.D
Acq Time : 06/09/2015 17:35 Operator: CQC
Sample : 450611/450812/450814 VBLKS2 Inst : 5972-S
Misc : 2.5 uL of 28198 Multiplr: 1.00

Quant Time: Jun 10 0:26 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



00297

Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU81BLK.D
Acq Time : 06/09/2015 17:35 Operator: CQC
Sample : 450611/450812/450814 VBLKS2 Inst : 5972-S
Misc : 2.5 uL of 28198 Multiplr: 1.00

Quant Time: Jun 10 0:26 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	1670353	50.00	ug/Kg	126.53
30) Chlorobenzene-d5	12.87	117	1290075	50.00	ug/Kg	120.52
62) 1,4-dichlorobenzene-d4	16.22	152	738229	50.00	ug/Kg	121.34
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	3.16	65	464923	43.62	ug/Kg	87.24%
8) Chloroethane-d5	3.77	69	434889	42.88	ug/Kg	85.76%
11) 1,1-Dichloroethene-d2	4.82	63	1205458	34.30	ug/Kg	68.60%
22) 2-Butanone-d5	7.15	46	321136	110.99	ug/Kg	110.99%
25) Chloroform-d	7.60	84	1545816	44.90	ug/Kg	89.80%
27) 1,2-Dichloroethane-d4	8.30	65	755691	48.02	ug/Kg	96.05%
29) 1,4-Dioxane-d8	9.63	96	53239	1093.33	ug/Kg	109.33%
35) Benzene-d6	8.34	84	1574844	49.64	ug/Kg	99.28%
39) 1,2-Dichloropropane-d6	9.41	67	744695	47.66	ug/Kg	95.32%
42) cis-1,3-Dichloropropene-d4	10.44	79	1355254	51.77	ug/Kg	103.55%
44) trans-1,3-Dichloropropene-	11.19	79	788188	52.22	ug/Kg	104.44%
49) Toluene-d8	10.87	98	1416566	49.36	ug/Kg	98.71%
52) 2-Hexanone-d5	11.75	63	232883	116.41	ug/Kg	116.41%
61) 1,1,2,2-Tetrachloroethane-	14.68	84	793419	49.23	ug/Kg	98.47%
67) 1,2-Dichlorobenzene-d4	16.79	152	698089	49.33	ug/Kg	98.66%
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	2417	0.21	ug/Kg#	18
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

00288

Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU81BLK.D
Acq Time : 06/09/2015 17:35 Operator: CQC
Sample : 450611/450812/450814 VBLKS2 Inst : 5972-S
Misc : 2.5 uL of 28198 Multiplr: 1.00

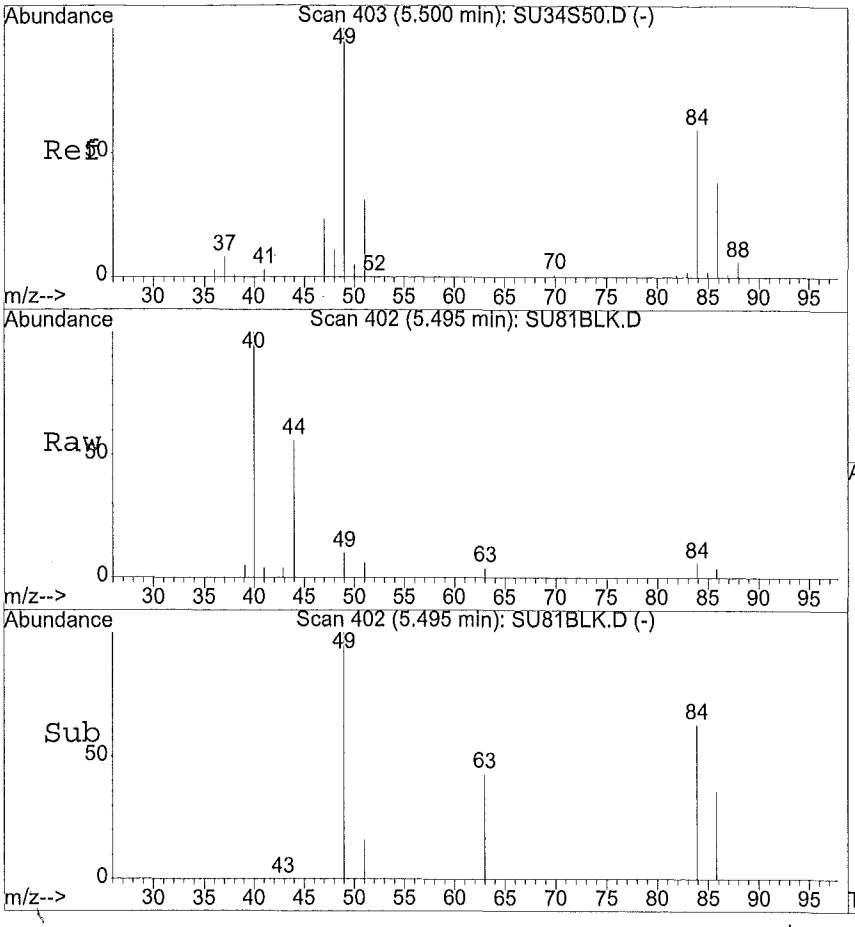
Quant Time: Jun 10 0:26 2015 Quant Results File: SCLPSS.RES

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	16.14	146	6358	0.31 ug/Kg#	57
65)	1,4-Dichlorobenzene	16.26	146	7997	0.36 ug/Kg#	1
66)	1,2-Dichlorobenzene	16.81	146	7159	0.34 ug/Kg#	1
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	19.21	180	11771	0.75 ug/Kg	97
70)	1,2,3-Trichlorobenzene	19.94	180	16793	1.21 ug/Kg	97

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

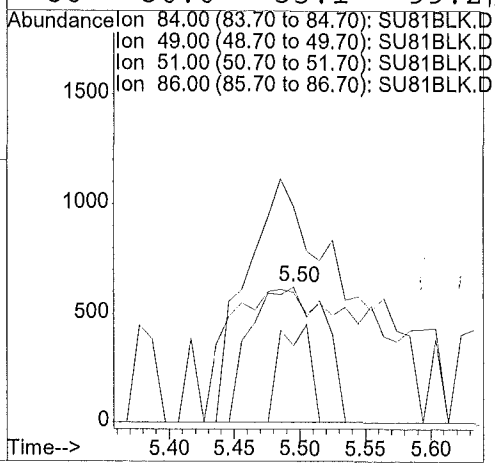
00289

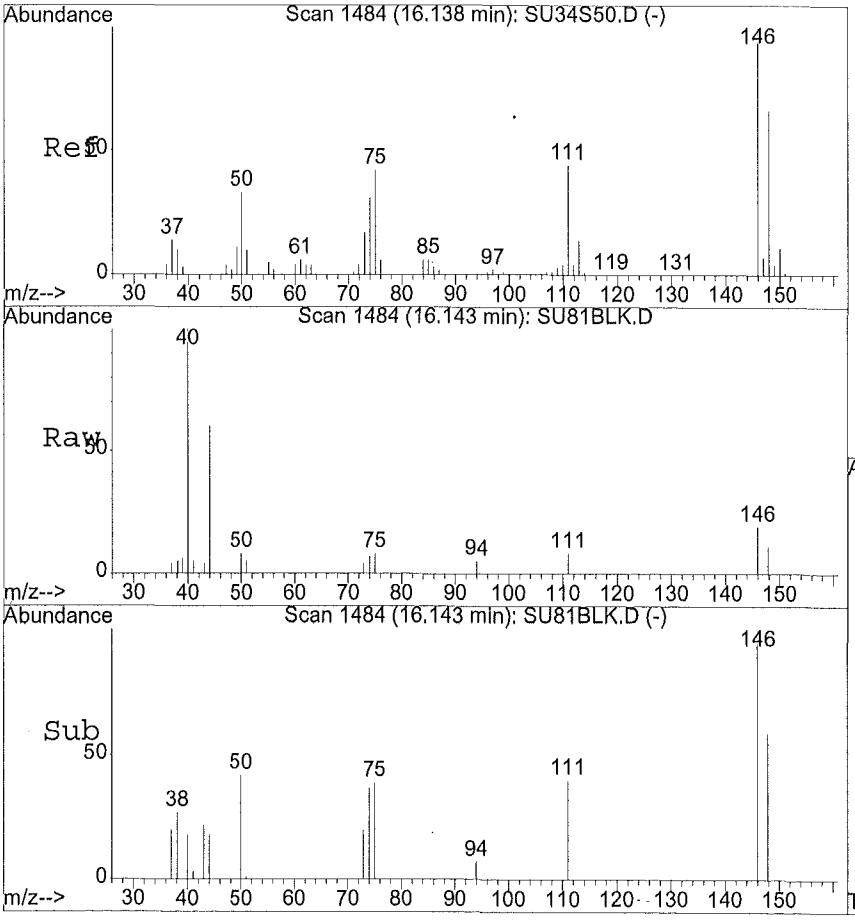


#16
Methylene chloride
Concen: 0.21 ug/Kg
RT: 5.50 min Scan# 402
Delta R.T. -0.00 min
Lab File: SU81BLK.D
Acq: 06/09/2015 17:35

Tgt Ion:84 Resp: 2417

Ion	Ratio	Lower	Upper
84	100		
49	264.2	85.4	256.1#
51	175.8	26.8	80.4#
86	30.0	33.1	99.2#

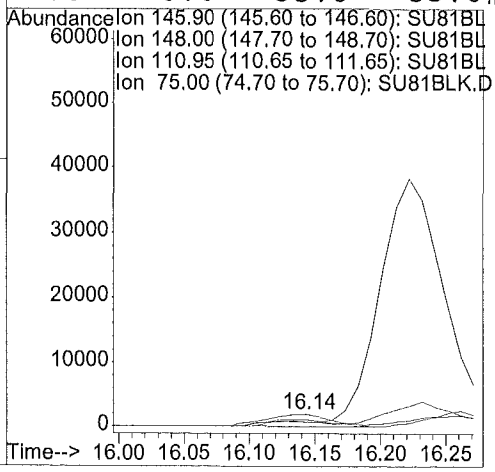


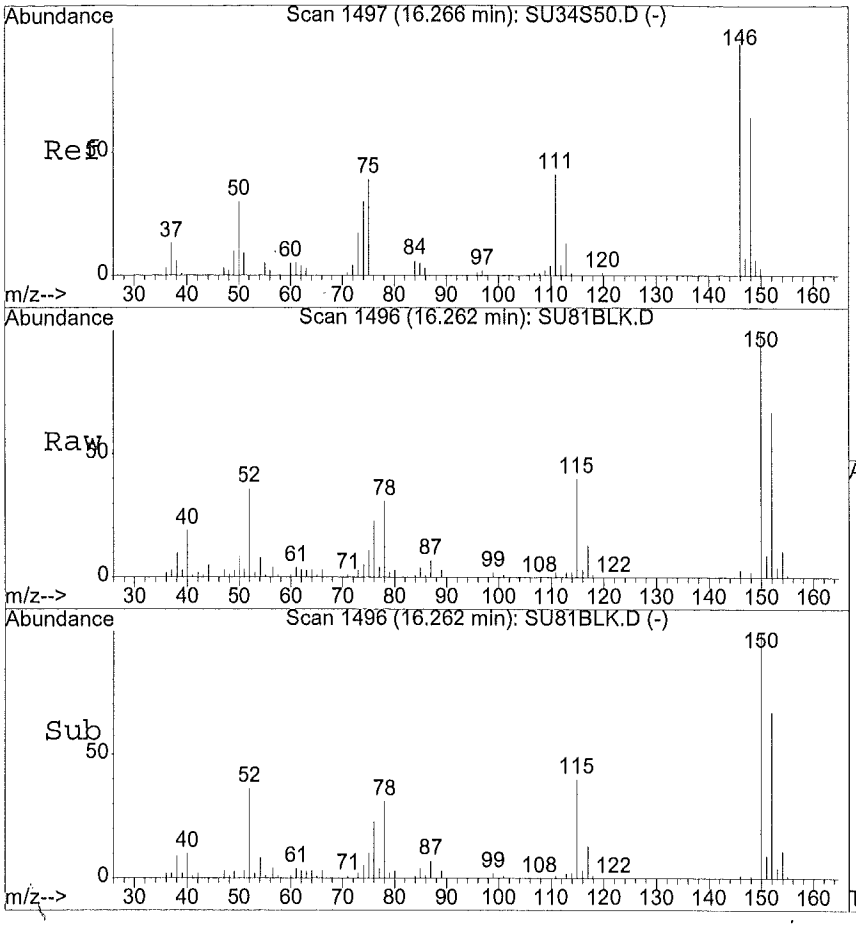


#64
1,3-Dichlorobenzene
Concen: 0.31 ug/Kg
RT: 16.14 min Scan# 1484
Delta R.T. 0.01 min
Lab File: SU81BLK.D
Acq: 06/09/2015 17:35

Tgt Ion:145.9 Resp: 6358

Ion	Ratio	Lower	Upper
146	100		
148	58.6	51.8	77.6
111	0.0	35.9	53.9#
75	0.0	35.8	53.6#

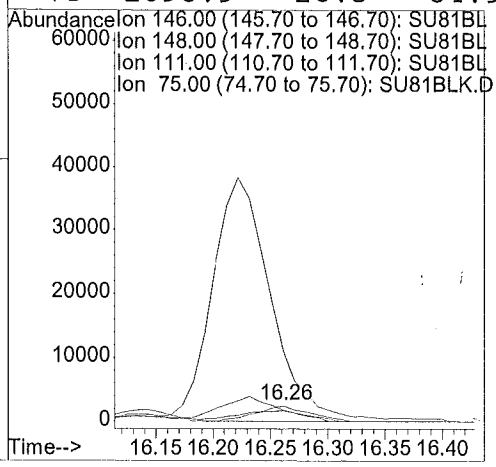


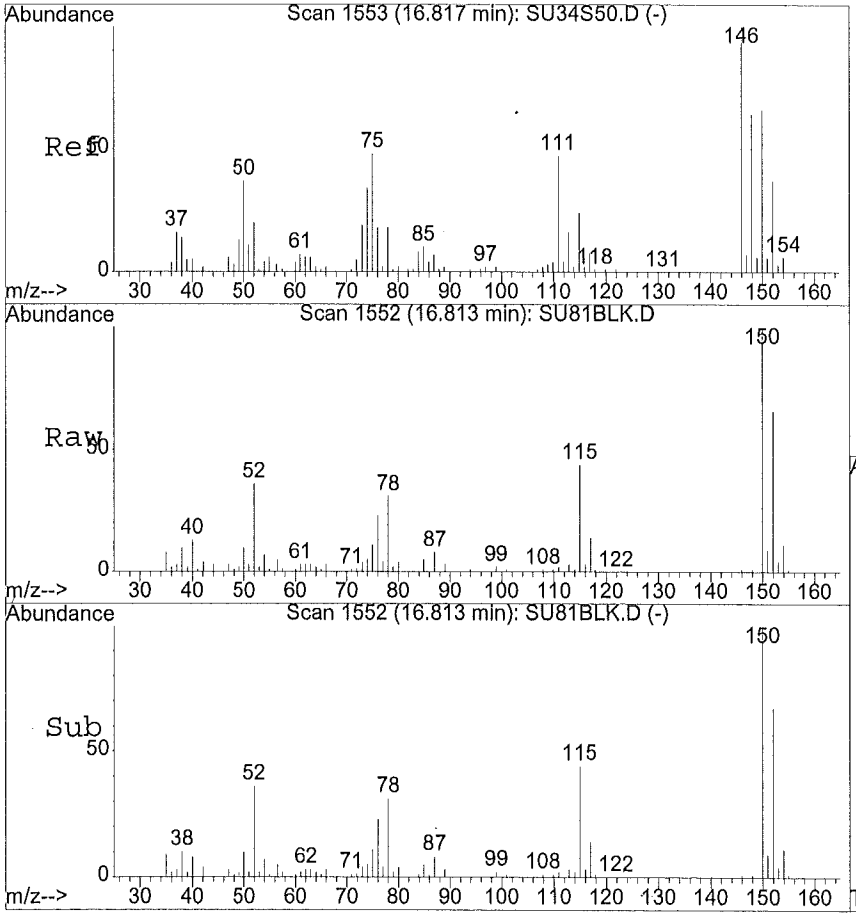


#65
1,4-Dichlorobenzene
Concen: 0.36 ug/Kg
RT: 16.26 min Scan# 1496
Delta R.T. -0.00 min
Lab File: SU81BLK.D
Acq: 06/09/2015 17:35

Tgt Ion:146 Resp: 7997

Ion	Ratio	Lower	Upper
146	100		
148	88.5	32.2	96.6
111	177.4	21.9	65.5#
75	1698.9	28.3	84.9#

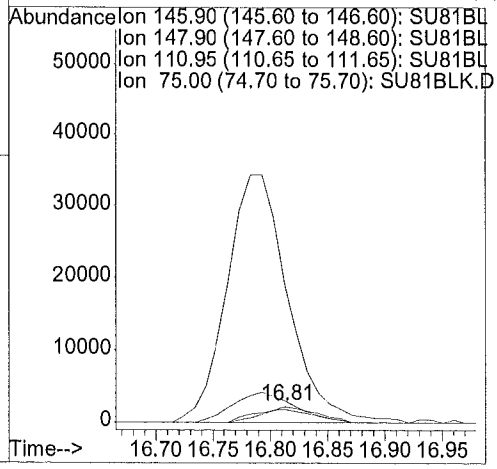


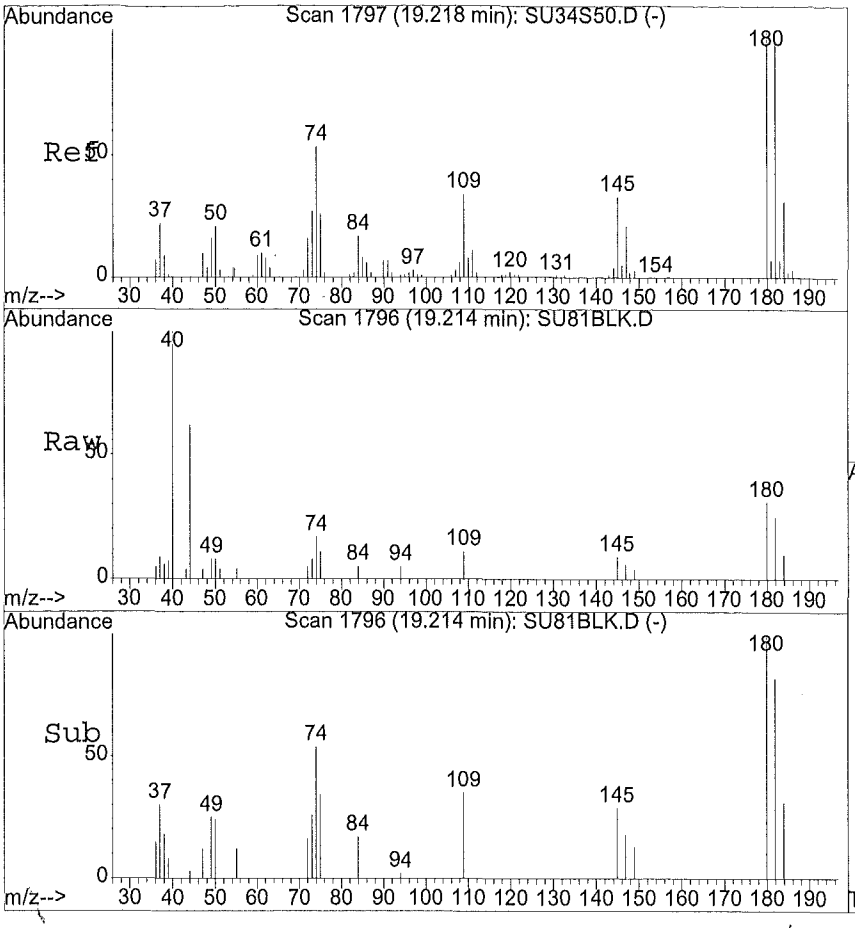


#66
1,2-Dichlorobenzene
Concen: 0.34 ug/Kg
RT: 16.81 min Scan# 1552
Delta R.T. -0.00 min
Lab File: SU81BLK.D
Acq: 06/09/2015 17:35

Tgt Ion:145.9 Resp: 7159

Ion	Ratio	Lower	Upper
146	100		
148	93.5	52.6	78.8#
111	220.3	38.3	57.5#
75	1776.3	44.5	66.7#

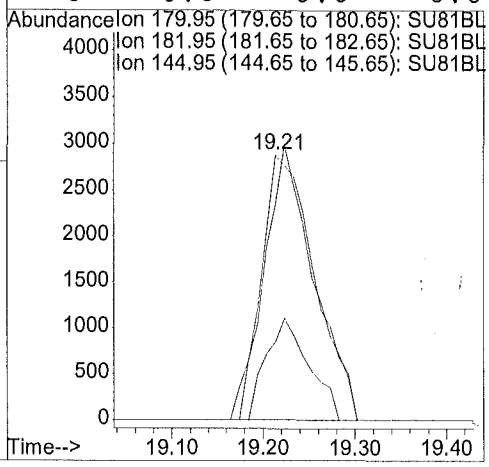


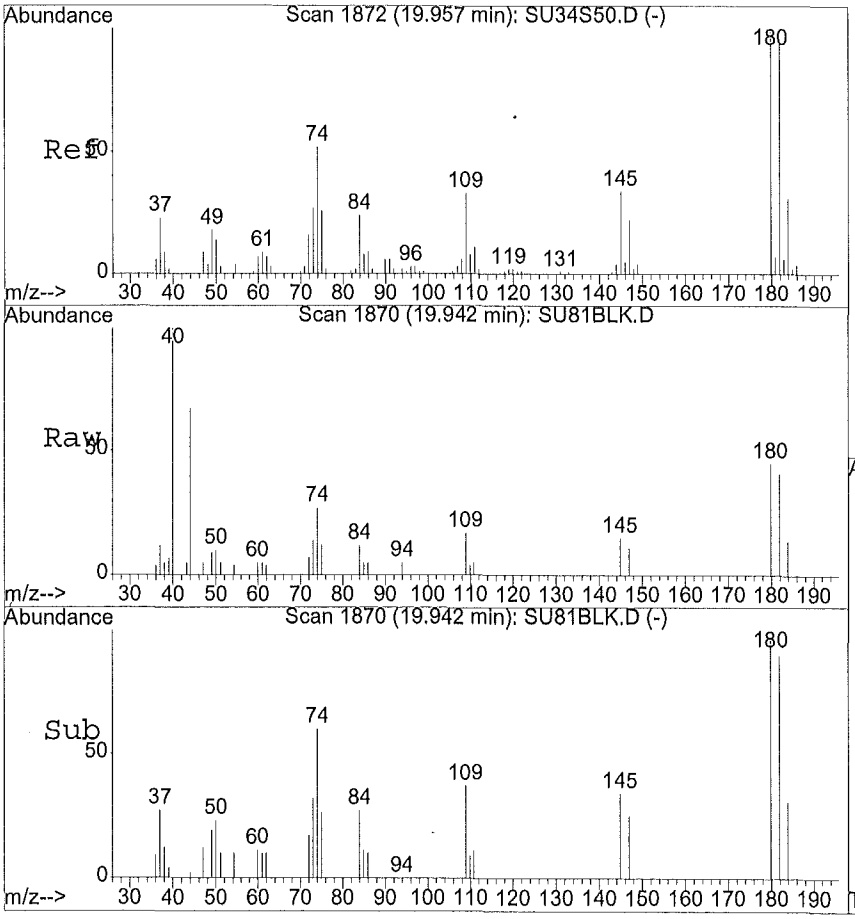


#69
1,2,4-Trichlorobenzene
Concen: 0.75 ug/Kg
RT: 19.21 min Scan# 1796
Delta R.T. -0.00 min
Lab File: SU81BLK.D
Acq: 06/09/2015 17:35

Tgt Ion:179.95 Resp: 11771

Ion	Ratio	Lower	Upper
180	100		
182	93.0	76.8	115.2
145	30.5	26.5	39.7
0	0.0	0.0	0.0

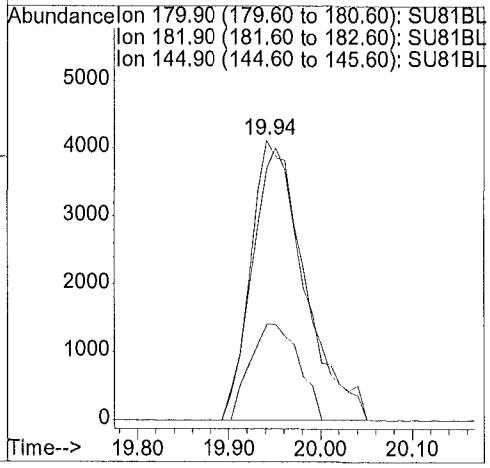




#70
1,2,3-Trichlorobenzene
Concen: 1.21 ug/Kg
RT: 19.94 min Scan# 1870
Delta R.T. -0.01 min
Lab File: SU81BLK.D
Acq: 06/09/2015 17:35

Tgt Ion:179.9 Resp: 16793

Ion	Ratio	Lower	Upper
180	100		
182	94.4	76.4	114.6
145	30.7	27.8	41.8
0	0.0	0.0	0.0



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

EPA SAMPLE NO.

VHBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450612

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SU98HBLK

Level: (TRACE/LOW/MED) LOW Date Received:

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

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	0.40	JB
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.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450612

Sample wt/vol: 5.00 (g/mL) g Lab File ID: SU98HBLK

Level: (TRACE/LOW/MED) LOW Date Received:

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

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.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450612
Sample wt/vol: 5.00 (g/mL) g Lab File ID: SU98HBLK
Level: (TRACE or LOW/MED) LOW Date Received:
% Moisture: not dec. Date Analyzed: 06/10/2015
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					
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17					
18					
19					
20					
21					
22					
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25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

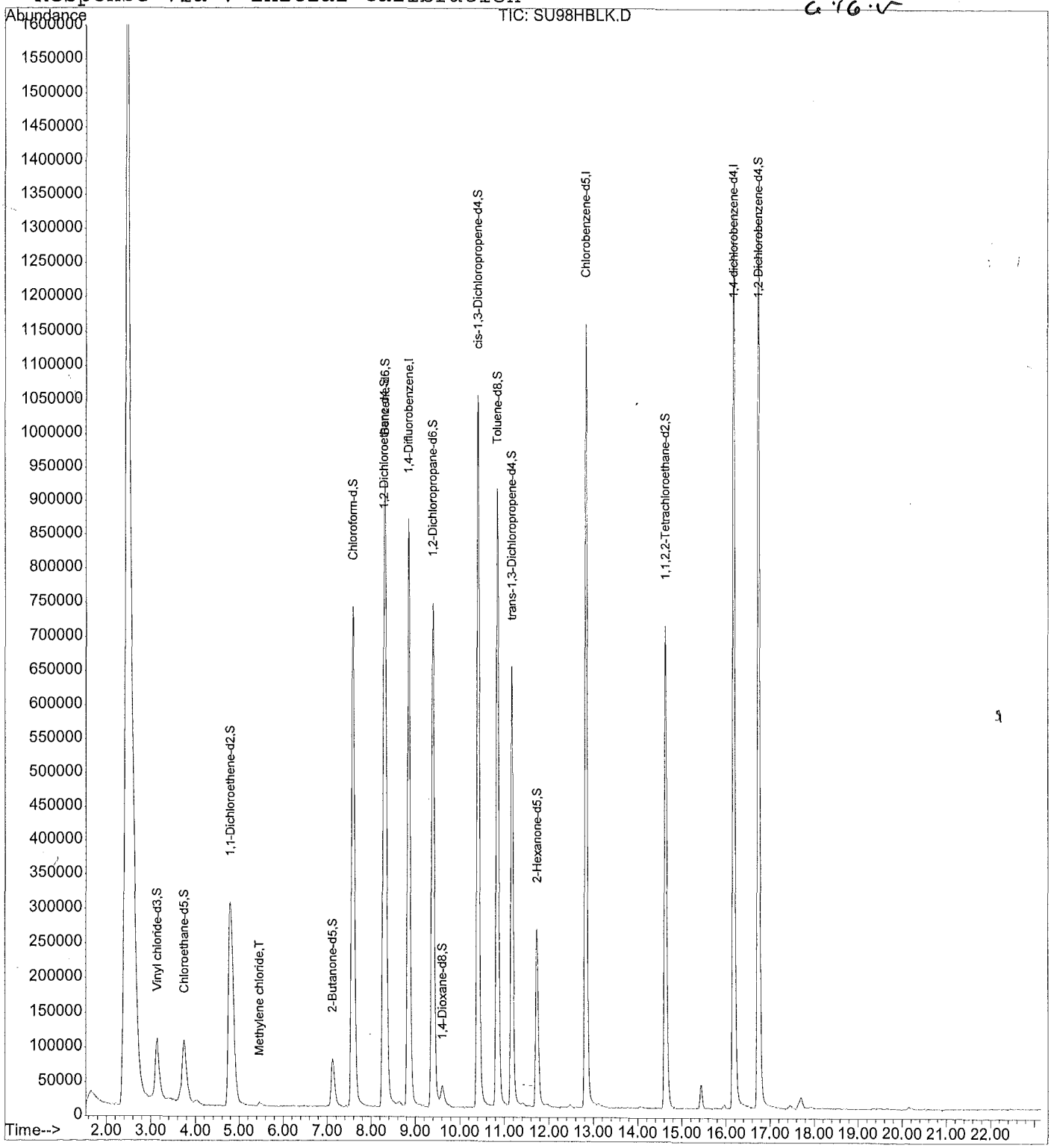
Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU98HBLK.D
Acq Time : 06/10/2015 02:26 Operator: CQC
Sample : 450612/450813 VHBLKS1 Inst : 5972-S
Misc : 2.5 uL of 28198 Multiplr: 1.00

Quant Time: Jun 16 23:50 2015 Quant Results File: SCLPSS.RES

Method : D:\HPCHEM\1\METHODS\SCLPSS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue Jun 16 17:27:26 2015
Response via : Initial Calibration

6.16.15



: 09296

Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU98HBLK.D
Acq Time : 06/10/2015 02:26 Operator: CQC
Sample : 450612/450813 VHBLKS1 Inst : 5972-S
Misc : 2.5 uL of 28198 Multiplr: 1.00

Quant Time: Jun 16 23:50 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	1339343	50.00 ug/Kg	101.46
30) Chlorobenzene-d5	12.83	117	1074241	50.00 ug/Kg	100.36
62) 1,4-dichlorobenzene-d4	16.18	152	610942	50.00 ug/Kg	100.42
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	3.14	65	350094	40.96 ug/Kg	81.93%
8) Chloroethane-d5	3.75	69	347613	42.75 ug/Kg	85.49%
11) 1,1-Dichloroethene-d2	4.80	63	901911	32.00 ug/Kg	64.01%
22) 2-Butanone-d5	7.12	46	246561	106.28 ug/Kg	106.28%
25) Chloroform-d	7.59	84	1307571	47.37 ug/Kg	94.74%
27) 1,2-Dichloroethane-d4	8.28	65	665934	52.78 ug/Kg	105.56%
29) 1,4-Dioxane-d8	9.60	96	45950	1176.85 ug/Kg	117.69%
35) Benzene-d6	8.32	84	1292299	48.92 ug/Kg	97.84%
39) 1,2-Dichloropropane-d6	9.40	67	637692	49.01 ug/Kg	98.02%
42) cis-1,3-Dichloropropene-d4	10.41	79	1123173	51.53 ug/Kg	103.05%
44) trans-1,3-Dichloropropene-	11.17	79	656136	52.20 ug/Kg	104.41%
49) Toluene-d8	10.84	98	1141480	47.76 ug/Kg	95.53%
52) 2-Hexanone-d5	11.74	63	191931	115.21 ug/Kg	115.21%
61) 1,1,2,2-Tetrachloroethane-	14.63	84	732279	54.57 ug/Kg	109.14%
67) 1,2-Dichlorobenzene-d4	16.75	152	606994	51.83 ug/Kg	103.66%
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	5.47	84	3778	0.40 ug/Kg#	66
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

00297

Quantitation Report

Data File : D:\HPCHEM\1\DATA\09JUN15S\SU98HBLK.D
Acq Time : 06/10/2015 02:26 Operator: CQC
Sample : 450612/450813 VHBLKS1 Inst : 5972-S
Misc : 2.5 uL of 28198 Multiplr: 1.00

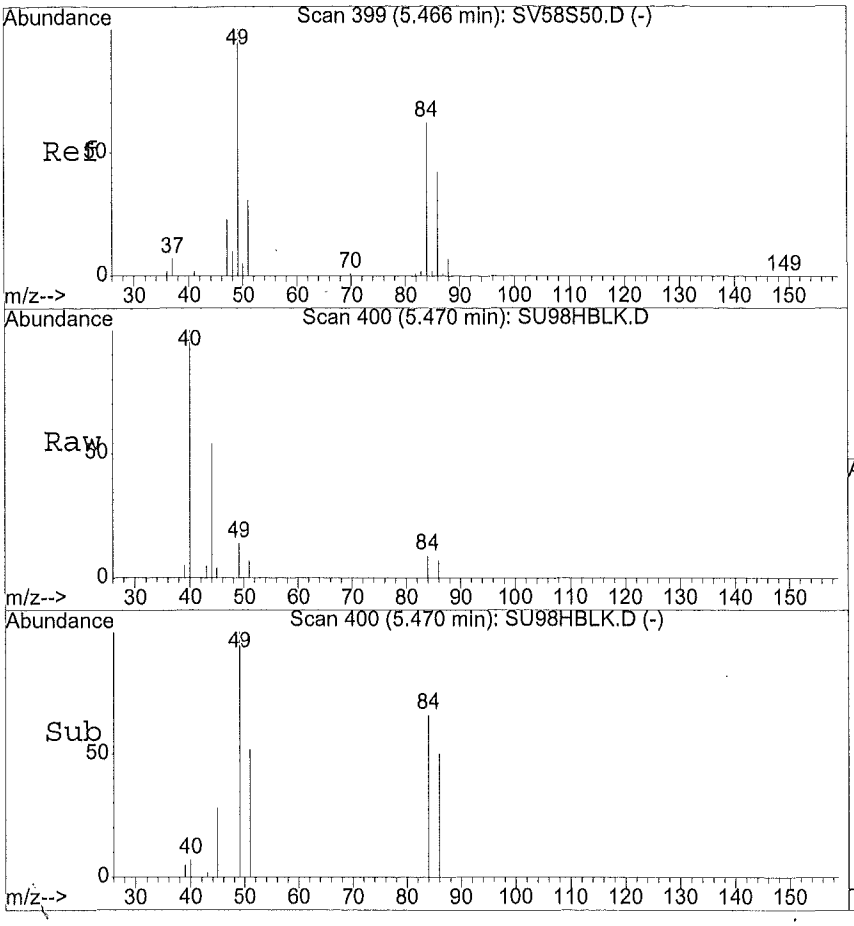
Quant Time: Jun 16 23:50 2015 Quant Results File: SCLPSS.RES

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

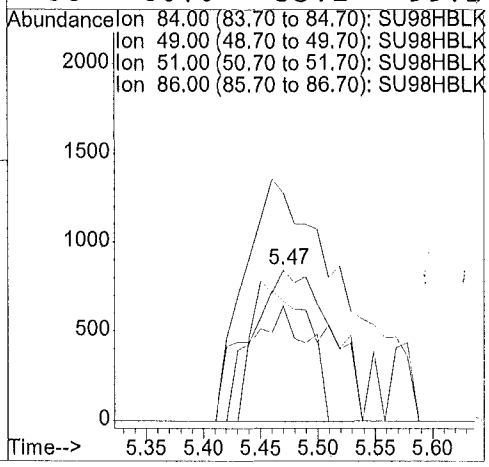
00299



#16
Methylene chloride
Concen: 0.40 ug/Kg
RT: 5.47 min Scan# 400
Delta R.T. -0.03 min
Lab File: SU98HBLK.D
Acq: 06/10/2015 02:26

Tgt Ion:84 Resp: 3778

Ion	Ratio	Lower	Upper
84	100		
49	215.3	85.4	256.1
51	105.2	26.8	80.4#
86	60.0	33.1	99.2



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.: F9M21

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC1 (PHL) #	SDMC2 (BCE) #	SDMC3 (2CP) #	SDMC4 (4MP) #	SDMC5 (NBZ) #	SDMC6 (2NP) #	SDMC7 (DCP) #	SDMC8 (4CA) #
01	F9M21	74	67	76	73	76	75	71	0 D
02	F9M22	60	57	64	57	63	63	62	0 D
03	F9M23	71	68	73	69	76	76	76	119
04	F9M24	71	67	79	73	75	74	72	0 D
05	F9M25	79	74	87	82	85	84	81	0 D
06	F9M26	85	81	91	86	94	91	85	0 D
07	F9M27	53	51	56	40	56	57	51	7
08	F9M28	71	65	73	43	75	74	74	0 D
09	F9M29	70	65	71	31	74	76	64	7
10	F9M30	75	68	76	46	76	78	73	7
11	F9M31	78	67	81	76	78	79	78	16
12	F9M32	65	46	62	59	57	60	75	13
13	F9M33	61	54	61	38	65	65	63	8
14	F9M34	83	77	88	59	86	84	86	11
15	F9M35	62	44	62	57	58	57	71	12
16	F9M37	67	44	66	48	60	63	71	0 D
17	F9M38	64	62	72	22	71	72	69	0 D
18	F9M39	58	48	55	16	58	60	57	0 D
19	F9M40	67	60	69	52	68	66	65	0 D
20	F9M41	71	67	69	26	76	74	64	0 D
21	SBLK93	73	68	72	32	77	79	66	3
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.: F9M21

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	F9M21	88	84	39	88	40	90	85	83	0
02	F9M22	73	67	54	74	35	69	71	65	0
03	F9M23	93	88	59	101	71	100 D	97	95	0
04	F9M24	86	82	39	89	34	96	90	88	0
05	F9M25	92	87	62	89	37	90	88	84	0
06	F9M26	102	93	76	99	35	103 D	100	98	0
07	F9M27	59	55	47	58	24	54	57	51	0
08	F9M28	88	80	62	86	31	82	84	75	0
09	F9M29	79	74	69	78	36	74	74	68	0
10	F9M30	85	79	76	84	42	86	87	84	0
11	F9M31	93	85	78	92	32	88	86	84	0
12	F9M32	91	82	75	90	30	87	89	76	0
13	F9M33	81	70	68	77	29	75	77	65	0
14	F9M34	102	92	84	100	27	93	93	80	0
15	F9M35	83	74	71	81	27	79	79	70	0
16	F9M37	86	79	63	84	51	77	85	72	0
17	F9M38	78	75	61	77	45	73	80	66	0
18	F9M39	76	69	66	75	40	66	76	61	0
19	F9M40	77	71	62	75	33	72	73	63	0
20	F9M41	79	74	65	76	41	67	73	56	0
21	SBLK93	81	76	76	80	78	79	82	78	0
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.

SBLK93

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab File ID: GBK03BLK Lab Sample ID: 450193

Instrument ID: 5975-G Date Extracted: 06/08/2015

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 06/12/2015

Level: (LOW/MED) LOW Time Analyzed: 17:14

Extraction: (Type) SONC GPC Cleanup: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	F9M21	1515542001	GBK05F01	06/12/2015
02	F9M22	1515542002	GBK06F02	06/12/2015
03	F9M23	1515542003	GBK07F03	06/12/2015
04	F9M24	1515542004	GBK08F04	06/12/2015
05	F9M25	1515542005	GBK09F05	06/12/2015
06	F9M26	1515542006	GBK10F06	06/12/2015
07	F9M27	1515542007	GBK11F07	06/12/2015
08	F9M28	1515542010	GBK12F10	06/12/2015
09	F9M29	1515542011	GBK13F11	06/12/2015
10	F9M30	1515542012	GBK14F12	06/12/2015
11	F9M31	1515542013	GBK15F13	06/12/2015
12	F9M32	1515542014	GBK16F14	06/13/2015
13	F9M33	1515542015	GBK17F15	06/13/2015
14	F9M34	1515542016	GBK18F16	06/13/2015
15	F9M35	1515542017	GBK19F17	06/13/2015
16	F9M37	1515542018	GBM02F18	06/15/2015
17	F9M38	1515542019	GBM03F19	06/15/2015
18	F9M39	1515542020	GBM04F20	06/15/2015
19	F9M40	1515542021	GBM05F21	06/15/2015
20	F9M41	1515542022	GBM06F22	06/15/2015
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.: DFTPPGX

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab File ID: GAX01S20 DFTPP Injection Date: 05/27/2015

Instrument ID: 5975-G DFTPP Injection Time: 15:49

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.5
68	Less than 2.0% of mass 69	0.8 (2.0) 1
69	Mass 69 relative abundance	38.4
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	51.1
197	Less than 2.0% of mass 198	0.0
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	2.8
441	Present, but less than mass 443	12.1
442	50.0 - 100% of mass 198	79.9
443	15.0 - 24.0% of mass 442	15.8 (19.8) 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	SSTD020GX	SSTD020GX	GAX01S20	05/27/2015	15:49
02	SSTD005GX	SSTD005GX	GAX02S05	05/27/2015	16:21
03	SSTD010GX	SSTD010GX	GAX03S10	05/27/2015	16:54
04	SSTD040GX	SSTD040GX	GAX06S40	05/27/2015	18:30
05	SSTD080GX	SSTD080GX	GAX07S80	05/27/2015	19:02
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.: DFTPPGK

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab File ID: GBK02S20 DFTPP Injection Date: 06/12/2015

Instrument ID: 5975-G DFTPP Injection Time: 16:39

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	30.8
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	36.2
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	50.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	25.3
365	Greater than 1.0% of mass 198	3.0
441	Present, but less than mass 443	13.8
442	50.0 - 100% of mass 198	91.0
443	15.0 - 24.0% of mass 442	17.3 (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	SSTD020GK	SSTD020GK	GBK02S20	06/12/2015	16:39
02	SBLK93	450193	GBK03BLK	06/12/2015	17:14
03	F9M21	1515542001	GBK05F01	06/12/2015	18:19
04	F9M22	1515542002	GBK06F02	06/12/2015	18:52
05	F9M23	1515542003	GBK07F03	06/12/2015	19:24
06	F9M24	1515542004	GBK08F04	06/12/2015	19:57
07	F9M25	1515542005	GBK09F05	06/12/2015	20:29
08	F9M26	1515542006	GBK10F06	06/12/2015	21:02
09	F9M27	1515542007	GBK11F07	06/12/2015	21:34
10	F9M28	1515542010	GBK12F10	06/12/2015	22:06
11	F9M29	1515542011	GBK13F11	06/12/2015	22:38
12	F9M30	1515542012	GBK14F12	06/12/2015	23:10
13	F9M31	1515542013	GBK15F13	06/12/2015	23:42
14	F9M32	1515542014	GBK16F14	06/13/2015	00:14
15	F9M33	1515542015	GBK17F15	06/13/2015	00:46
16	F9M34	1515542016	GBK18F16	06/13/2015	01:18
17	F9M35	1515542017	GBK19F17	06/13/2015	01:50
18	SSTD020K1	SSTD020K1	GBK21S20	06/13/2015	02:54
19					
20					
21					

5B - FORM V SV
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.: DFTPPGM

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab File ID: GBM01S20 DFTPP Injection Date: 06/15/2015

Instrument ID: 5975-G DFTPP Injection Time: 15:28

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	29.4
68	Less than 2.0% of mass 69	0.5 (1.3) 1
69	Mass 69 relative abundance	35.1
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	49.6
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	25.1
365	Greater than 1.0% of mass 198	3.1
441	Present, but less than mass 443	13.7
442	50.0 - 100% of mass 198	89.2
443	15.0 - 24.0% of mass 442	17.3 (19.4) 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	SSTD020GM	SSTD020GM	GBM01S20	06/15/2015	15:28
02	F9M37	1515542018	GBM02F18	06/15/2015	16:58
03	F9M38	1515542019	GBM03F19	06/15/2015	17:31
04	F9M39	1515542020	GBM04F20	06/15/2015	18:04
05	F9M40	1515542021	GBM05F21	06/15/2015	18:36
06	F9M41	1515542022	GBM06F22	06/15/2015	19:09
07	SSTD020M1	SSTD020M1	GBM08S20	06/15/2015	20:13
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					

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.: F9M21

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020GK Date Analyzed: 06/12/2015

Lab File ID (Standard): GBK02S20 Time Analyzed: 16:39

Instrument ID: 5975-G

	IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD		331787		4.96		1253617		6.37		697317		9.02	
	UPPER LIMIT		663574		5.46		2507234		6.87		1394634		9.52	
	LOWER LIMIT		165894		4.46		626809		5.87		348659		8.52	
	EPA SAMPLE NO.													
01	SBLK93		355500		4.96		1388256		6.37		802233		9.02	
02	F9M21		319673		4.96		1194167		6.37		660099		9.02	
03	F9M22		295060		4.96		1104025		6.37		616920		9.02	
04	F9M23		299613		4.96		1120798		6.37		651208		9.02	
05	F9M24		302481		4.96		1128340		6.37		646522		9.02	
06	F9M25		302958		4.96		1122801		6.37		646889		9.02	
07	F9M26		265194		4.96		984617		6.37		568103		9.02	
08	F9M27		269376		4.96		1044932		6.37		607753		9.02	
09	F9M28		281761		4.96		1056752		6.37		603461		9.02	
10	F9M29		307570		4.96		1164139		6.37		669006		9.02	
11	F9M30		338466		4.96		1292606		6.37		735692		9.02	
12	F9M31		306885		4.96		1136574		6.37		663444		9.02	
13	F9M32		285487		4.96		1066796		6.37		627258		9.02	
14	F9M33		339227		4.96		1268694		6.37		737358		9.02	
15	F9M34		255985		4.96		981610		6.37		582888		9.02	
16	F9M35		307063		4.96		1160468		6.37		680449		9.02	
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.

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.: F9M21

EPA Sample No.(SSTD020##): SSTD020GK Date Analyzed: 06/12/2015

Lab File ID (Standard): GBK02S20 Time Analyzed: 16:39

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	1142317	11.66	1108122	15.84	1089928	18.26
	UPPER LIMIT	2284634	12.16	2216244	16.34	2179856	18.76
	LOWER LIMIT	571159	11.16	554061	15.34	544964	17.76
	EPA SAMPLE NO.						
01	SBLK93	1296788	11.65	1247962	15.83	1232287	18.26
02	F9M21	1086090	11.65	1081699	15.83	1075968	18.25
03	F9M22	1016081	11.65	1025500	15.83	1015101	18.25
04	F9M23	1095066	11.65	1104801	15.84	986208	18.27
05	F9M24	1057124	11.65	1042236	15.83	1066375	18.26
06	F9M25	1082439	11.65	1052695	15.83	1037174	18.25
07	F9M26	935257	11.65	957845	15.83	933485	18.25
08	F9M27	1025678	11.65	1018605	15.83	1014561	18.25
09	F9M28	1016134	11.65	1014410	15.83	1012936	18.25
10	F9M29	1109483	11.65	1114086	15.83	1105004	18.25
11	F9M30	1201807	11.65	1178334	15.83	1160872	18.25
12	F9M31	1127330	11.65	1157743	15.83	1124314	18.25
13	F9M32	1075210	11.65	1087598	15.83	1059003	18.25
14	F9M33	1218352	11.65	1190036	15.83	1189633	18.25
15	F9M34	989531	11.65	1013519	15.83	987945	18.25
16	F9M35	1146542	11.65	1153957	15.83	1110869	18.25
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.

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.: F9M21

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020GM Date Analyzed: 06/15/2015

Lab File ID (Standard): GBM01S20 Time Analyzed: 15:28

Instrument ID: 5975-G

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	328161		4.96		1215372		6.37		672865		9.02	
	UPPER LIMIT	656322		5.46		2430744		6.87		1345730		9.52	
	LOWER LIMIT	164081		4.46		607686		5.87		336433		8.52	
	EPA SAMPLE NO.												
01	F9M37	404962		4.96		1509910		6.37		825060		9.02	
02	F9M38	391164		4.96		1492076		6.37		840698		9.02	
03	F9M39	357261		4.96		1351964		6.37		758406		9.02	
04	F9M40	361298		4.96		1380563		6.37		771415		9.02	
05	F9M41	356860		4.96		1363082		6.37		771754		9.02	
06													
07													
08													
09													
10													
11													
12													
13													
14													
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.

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.: F9M21

EPA Sample No.(SSTD020##): SSTD020GM Date Analyzed: 06/15/2015

Lab File ID (Standard): GBM01S20 Time Analyzed: 15:28

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	1075058		11.66		1008439		15.84		979010		18.26	
	UPPER LIMIT	2150116		12.16		2016878		16.34		1958020		18.76	
	LOWER LIMIT	537529		11.16		504220		15.34		489505		17.76	
	EPA SAMPLE NO.												
01	F9M37	1331606		11.66		1200694		15.84		1136213		18.27	
02	F9M38	1347505		11.65		1204310		15.83		1143557		18.26	
03	F9M39	1230757		11.65		1165903		15.83		1150909		18.26	
04	F9M40	1247759		11.65		1196604		15.83		1168257		18.26	
05	F9M41	1230733		11.65		1128537		15.83		1102636		18.25	
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
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.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M21

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542001

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GBK05F01

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 30.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	6200	U
108-95-2	Phenol	6200	U
111-44-4	Bis(2-chloroethyl)ether	6200	U
95-57-8	2-Chlorophenol	6200	U
95-48-7	2-Methylphenol	6200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	6200	U
98-86-2	Acetophenone	6200	U
106-44-5	4-Methylphenol	6200	U
621-64-7	N-Nitroso-di-n-propylamine	6200	U
67-72-1	Hexachloroethane	6200	U
98-95-3	Nitrobenzene	6200	U
78-59-1	Isophorone	6200	U
88-75-5	2-Nitrophenol	6200	U
105-67-9	2,4-Dimethylphenol	6200	U
111-91-1	Bis(2-chloroethoxy)methane	6200	U
120-83-2	2,4-Dichlorophenol	6200	U
91-20-3	Naphthalene	6200	U
106-47-8	4-Chloroaniline	6200	U
87-68-3	Hexachlorobutadiene	6200	U
105-60-2	Caprolactam	6200	U
59-50-7	4-Chloro-3-methylphenol	6200	U
91-57-6	2-Methylnaphthalene	6200	U
77-47-4	Hexachlorocyclopentadiene	6200	U
88-06-2	2,4,6-Trichlorophenol	6200	U
95-95-4	2,4,5-Trichlorophenol	6200	U
92-52-4	1,1'-Biphenyl	6200	U
91-58-7	2-Chloronaphthalene	6200	U
88-74-4	2-Nitroaniline	12000	U
131-11-3	Dimethylphthalate	6200	U
606-20-2	2,6-Dinitrotoluene	6200	U
208-96-8	Acenaphthylene	6200	U
99-09-2	3-Nitroaniline	12000	U
83-32-9	Acenaphthene	6200	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M21

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542001

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GBK05F01

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 30.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	12000	U
100-02-7	4-Nitrophenol	12000	U
132-64-9	Dibenzofuran	6200	U
121-14-2	2,4-Dinitrotoluene	6200	U
84-66-2	Diethylphthalate	6200	U
86-73-7	Fluorene	6200	U
7005-72-3	4-Chlorophenyl-phenylether	6200	U
100-01-6	4-Nitroaniline	12000	U
534-52-1	4,6-Dinitro-2-methylphenol	12000	U
86-30-6	N-Nitrosodiphenylamine[1]	6200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	6200	U
101-55-3	4-Bromophenyl-phenylether	6200	U
118-74-1	Hexachlorobenzene	6200	U
1912-24-9	Atrazine	6200	U
87-86-5	Pentachlorophenol	12000	U
85-01-8	Phenanthrene	6200	U
120-12-7	Anthracene	6200	U
86-74-8	Carbazole	6200	U
84-74-2	Di-n-butylphthalate	6200	U
206-44-0	Fluoranthene	6200	U
129-00-0	Pyrene	6200	U
85-68-7	Butylbenzylphthalate	6200	U
91-94-1	3,3'-Dichlorobenzidine	6200	U
56-55-3	Benzo(a)anthracene	6200	U
218-01-9	Chrysene	6200	U
117-81-7	Bis(2-ethylhexyl)phthalate	6200	U
117-84-0	Di-n-octylphthalate	6200	U
205-99-2	Benzo(b)fluoranthene	6200	U
207-08-9	Benzo(k)fluoranthene	6200	U
50-32-8	Benzo(a)pyrene	6200	U
193-39-5	Indeno(1,2,3-cd)pyrene	6200	U
53-70-3	Dibenzo(a,h)anthracene	6200	U
191-24-2	Benzo(g,h,i)perylene	6200	U
58-90-2	2,3,4,6-Tetrachlorophenol	6200	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M21

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542001
Sample wt/vol: 30.1 (g/mL) g Lab File ID: GBK05F01
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015
GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 30.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.56	11000	JB
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[2]	Total Alkanes	N/A		

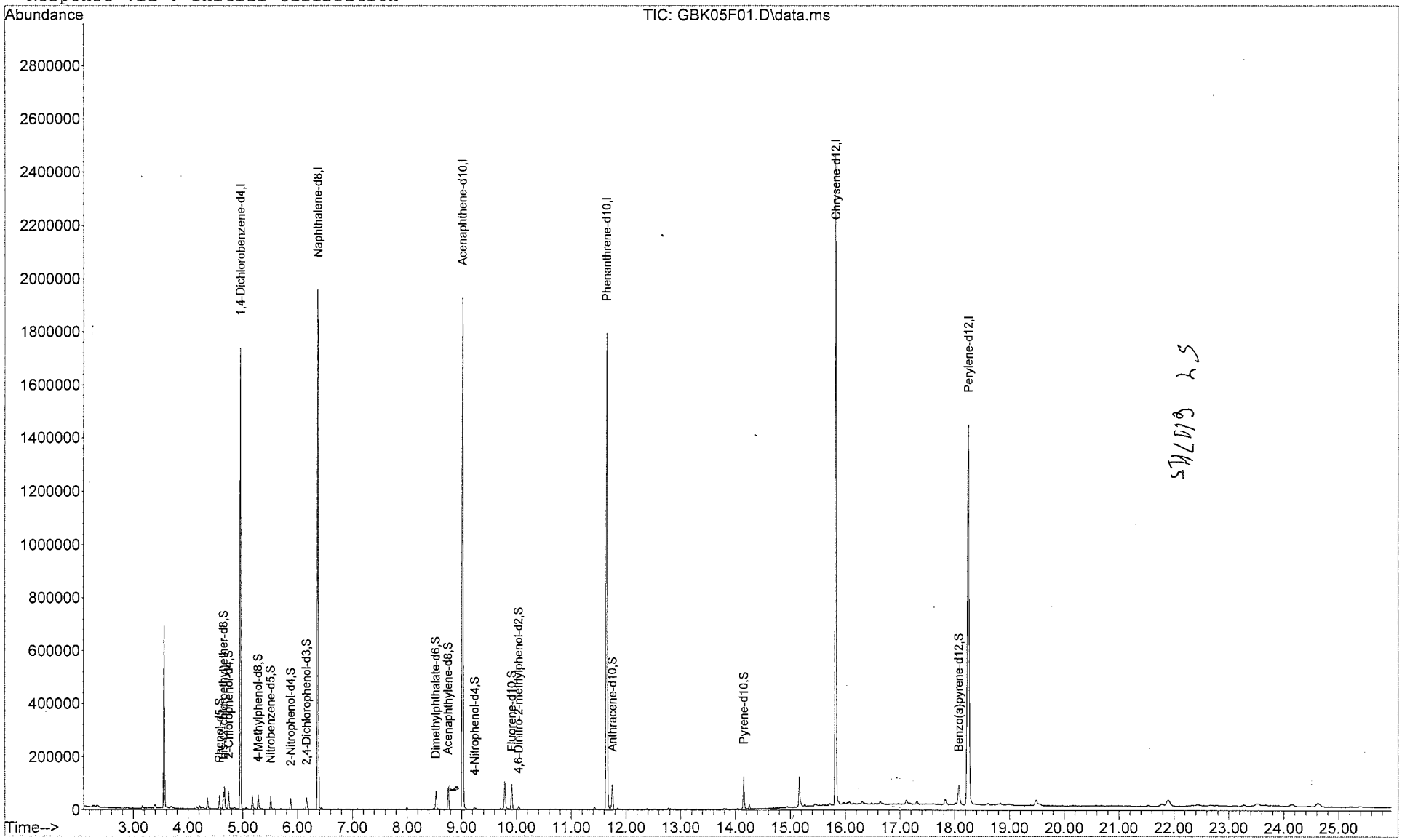
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK05F01.D Vial: 4
Acq On : 06/12/2015 18:19 Operator: DJC
Sample : 1515542001 F9M21 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 12 18:45:27 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK05F01.D Vial: 4
Acq On : 06/12/2015 18:19 Operator: DJC
Sample : 1515542001 F9M21 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 12 18:45:27 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	319673	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1194167	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	660099	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1086090	20.00 ug/ml
73) Chrysene-d12	15.83	240	1081699	20.00 ug/ml
81) Perylene-d12	18.25	264	1075968	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	22040	0.989ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	12191	0.893ug/mL
7) 2-Chlorophenol-d4	4.74	132	22315	1.020ug/ml
13) 4-Methylphenol-d8	5.28	113	16788	0.967ug/mL
17) Nitrobenzene-d5	5.51	128	10090	1.007ug/ml
21) 2-Nitrophenol-d4	5.87	143	11125	0.996ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	15413	0.942ug/mL
28) 4-Chloroaniline-d4	6.44	131	2595	0.146ug/mL
42) Dimethylphthalate-d6	8.53	166	46874	1.168ug/mL
45) Acenaphthylene-d8	8.75	160	59836	1.117ug/mL
50) 4-Nitrophenol-d4	9.24	143	4480	0.524ug/mL
57) Fluorene-d10	9.92	176	40786	1.170ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	3828	0.537ug/mL
69) Anthracene-d10	11.75	188	66248	1.206ug/mL
75) Pyrene-d10	14.15	212	55892	1.137ug/mL
86) Benzo(a)pyrene-d12	18.07	264	54212	1.111ug/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)

00314

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK05F01.D Vial: 4
Acq On : 06/12/2015 18:19 Operator: DJC
Sample : 1515542001 F9M21 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 12 18:45:27 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 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)

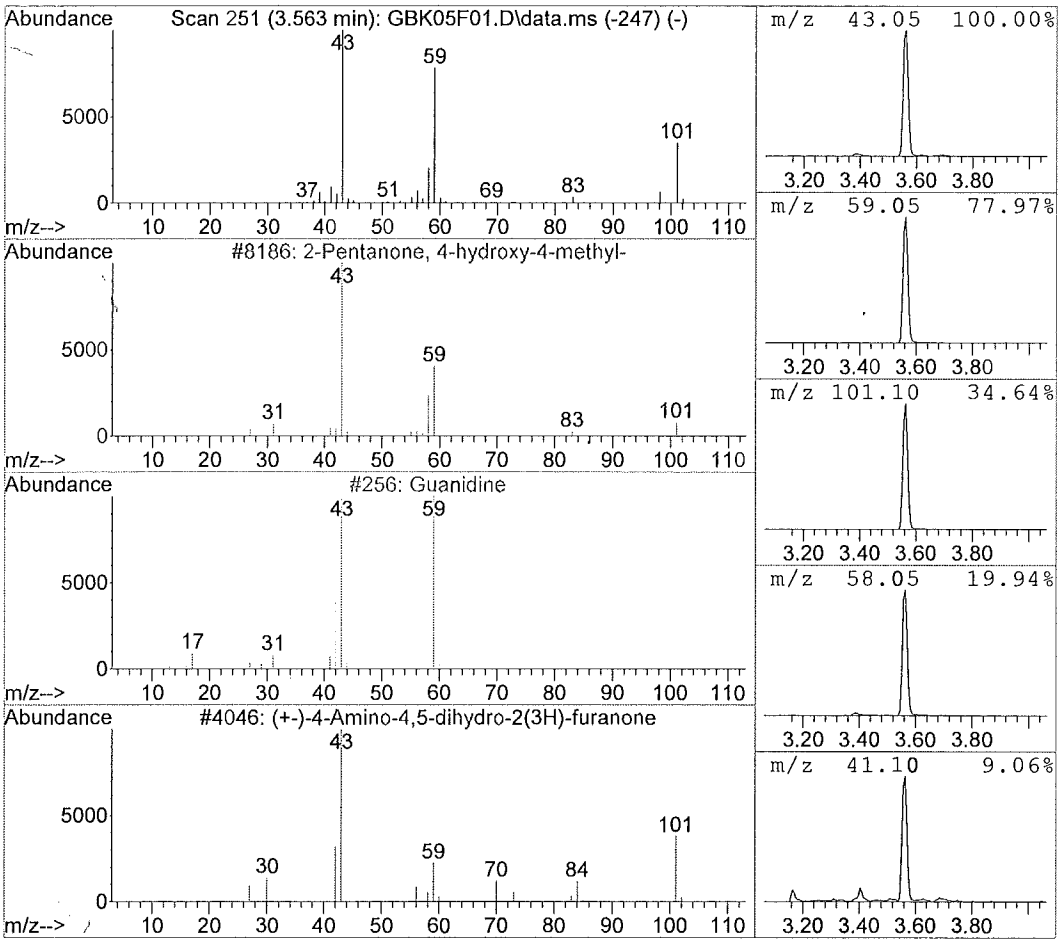
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK05F01.D Vial: 4
Acq On : 06/12/2015 18:19 Operator: DJC
Sample : 1515542001 F9M21 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.56	9.03 ug/ml	798770	1,4-Dichlorobenzene-d4	1769786

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	47.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Morpholine, 4-methyl-	4083	000109-02-4	9.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M22

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542002

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBK06F02

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	1900	U
108-95-2	Phenol	1900	U
111-44-4	Bis(2-chloroethyl)ether	1900	U
95-57-8	2-Chlorophenol	1900	U
95-48-7	2-Methylphenol	1900	U
108-60-1	2,2'-Oxybis(1-chloropropane)	1900	U
98-86-2	Acetophenone	1900	U
106-44-5	4-Methylphenol	1900	U
621-64-7	N-Nitroso-di-n-propylamine	1900	U
67-72-1	Hexachloroethane	1900	U
98-95-3	Nitrobenzene	1900	U
78-59-1	Isophorone	1900	U
88-75-5	2-Nitrophenol	1900	U
105-67-9	2,4-Dimethylphenol	1900	U
111-91-1	Bis(2-chloroethoxy)methane	1900	U
120-83-2	2,4-Dichlorophenol	1900	U
91-20-3	Naphthalene	1900	U
106-47-8	4-Chloroaniline	1900	U
87-68-3	Hexachlorobutadiene	1900	U
105-60-2	Caprolactam	1900	U
59-50-7	4-Chloro-3-methylphenol	1900	U
91-57-6	2-Methylnaphthalene	1900	U
77-47-4	Hexachlorocyclopentadiene	1900	U
88-06-2	2,4,6-Trichlorophenol	1900	U
95-95-4	2,4,5-Trichlorophenol	1900	U
92-52-4	1,1'-Biphenyl	1900	U
91-58-7	2-Chloronaphthalene	1900	U
88-74-4	2-Nitroaniline	3800	U
131-11-3	Dimethylphthalate	1900	U
606-20-2	2,6-Dinitrotoluene	1900	U
208-96-8	Acenaphthylene	1900	U
99-09-2	3-Nitroaniline	3800	U
83-32-9	Acenaphthene	1900	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M22

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542002

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBK06F02

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	3800	U
100-02-7	4-Nitrophenol	3800	U
132-64-9	Dibenzofuran	1900	U
121-14-2	2,4-Dinitrotoluene	1900	U
84-66-2	Diethylphthalate	1900	U
86-73-7	Fluorene	1900	U
7005-72-3	4-Chlorophenyl-phenylether	1900	U
100-01-6	4-Nitroaniline	3800	U
534-52-1	4,6-Dinitro-2-methylphenol	3800	U
86-30-6	N-Nitrosodiphenylamine[1]	1900	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1900	U
101-55-3	4-Bromophenyl-phenylether	1900	U
118-74-1	Hexachlorobenzene	1900	U
1912-24-9	Atrazine	1900	U
87-86-5	Pentachlorophenol	3800	U
85-01-8	Phenanthrene	1900	U
120-12-7	Anthracene	1900	U
86-74-8	Carbazole	1900	U
84-74-2	Di-n-butylphthalate	1900	U
206-44-0	Fluoranthene	1900	U
129-00-0	Pyrene	1900	U
85-68-7	Butylbenzylphthalate	1900	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
56-55-3	Benzo(a)anthracene	1900	U
218-01-9	Chrysene	1900	U
117-81-7	Bis(2-ethylhexyl)phthalate	1900	U
117-84-0	Di-n-octylphthalate	1900	U
205-99-2	Benzo(b)fluoranthene	1900	U
207-08-9	Benzo(k)fluoranthene	1900	U
50-32-8	Benzo(a)pyrene	1900	U
193-39-5	Indeno(1,2,3-cd)pyrene	1900	U
53-70-3	Dibenzo(a,h)anthracene	1900	U
191-24-2	Benzo(g,h,i)perylene	1900	U
58-90-2	2,3,4,6-Tetrachlorophenol	1900	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M22

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542002
Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBK06F02
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 12. Decanted: (Y/N) N Date Received: 06/03/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015
GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 10.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Guanidine	3.56	8700	J
02	301-02-0	9-Octadecenamide, (Z)-	15.16	1100	JNB
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[2]	Total Alkanes	N/A		

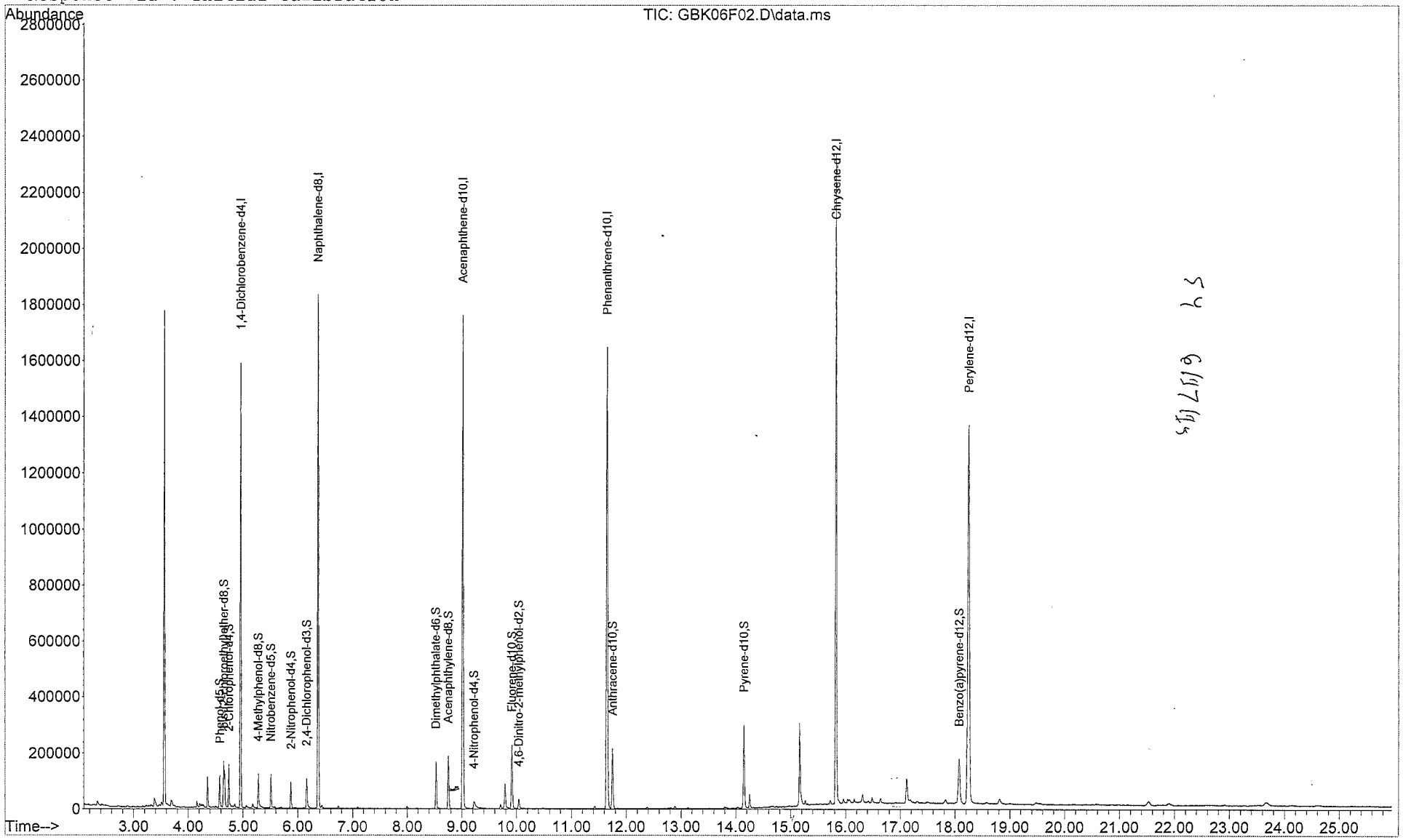
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK06F02.D Vial: 5
Acq On : 06/12/2015 18:52 Operator: DJC
Sample : 1515542002 F9M22 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 12 19:18:09 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK06F02.D Vial: 5
Acq On : 06/12/2015 18:52 Operator: DJC
Sample : 1515542002 F9M22 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 12 19:18:09 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	295060	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1104025	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	616920	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1016081	20.00 ug/ml
73) Chrysene-d12	15.83	240	1025500	20.00 ug/ml
81) Perylene-d12	18.25	264	1015101	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.58	99	49059	2.384ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	28584	2.269ug/mL
7) 2-Chlorophenol-d4	4.74	132	51827	2.565ug/ml
13) 4-Methylphenol-d8	5.28	113	36731	2.293ug/mL
17) Nitrobenzene-d5	5.51	128	23467	2.533ug/ml
21) 2-Nitrophenol-d4	5.87	143	25931	2.512ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	37737	2.495ug/mL
28) 4-Chloroaniline-d4	6.44	131	4476	0.273ug/mL
42) Dimethylphthalate-d6	8.53	166	109914	2.930ug/mL
45) Acenaphthylene-d8	8.75	160	133587	2.668ug/mL
50) 4-Nitrophenol-d4	9.23	143	17217	2.155ug/mL
57) Fluorene-d10	9.92	176	96067	2.948ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	9414	1.410ug/mL
69) Anthracene-d10	11.75	188	142386	2.770ug/mL
75) Pyrene-d10	14.15	212	132499	2.842ug/mL
86) Benzo(a)pyrene-d12	18.07	264	120259	2.612ug/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)\12JUN15\GBK06F02.D Vial: 5
Acq On : 06/12/2015 18:52 Operator: DJC
Sample : 1515542002 F9M22 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 12 19:18:09 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 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)

: 00322

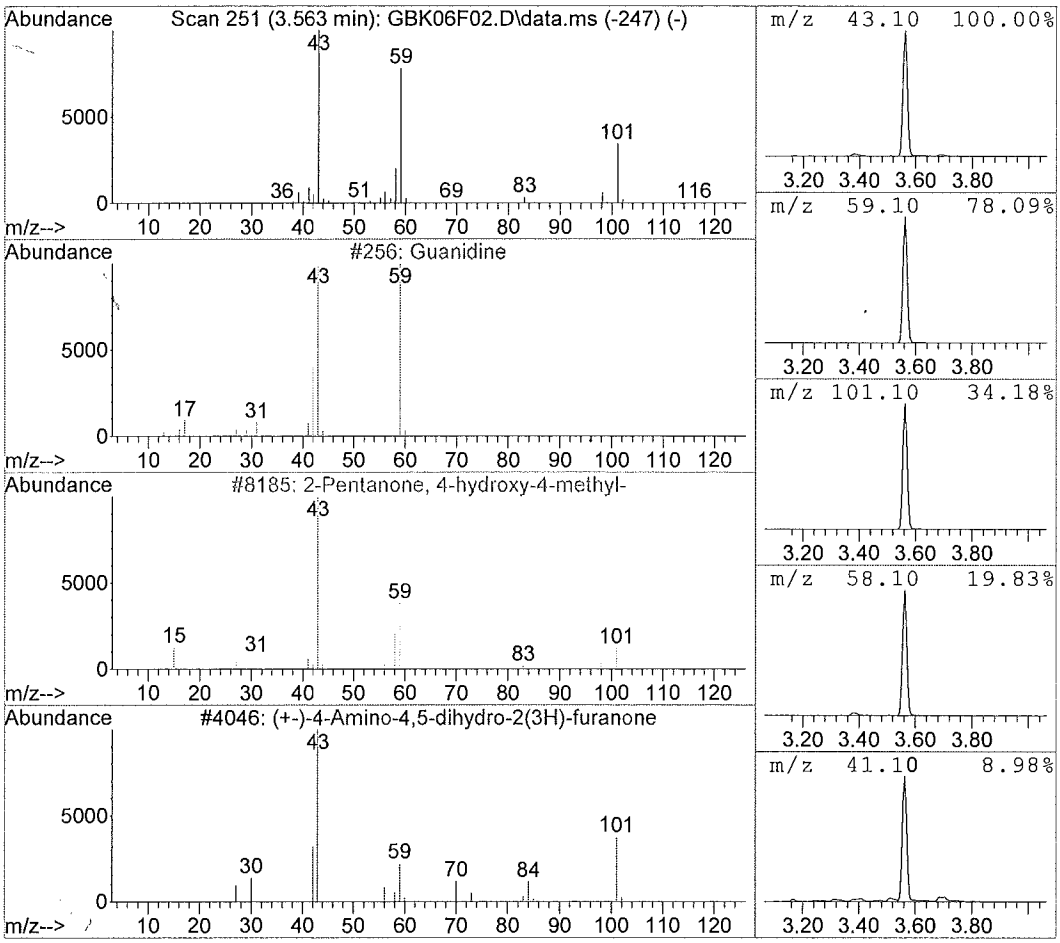
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK06F02.D Vial: 5
Acq On : 06/12/2015 18:52 Operator: DJC
Sample : 1515542002 F9M22 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.56	22.93 ug/ml	1869206	1,4-Dichlorobenzene-d4	1630366

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Guanidine	256	000113-00-8	47.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	38.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Morpholine, 4-methyl-	4083	000109-02-4	9.00



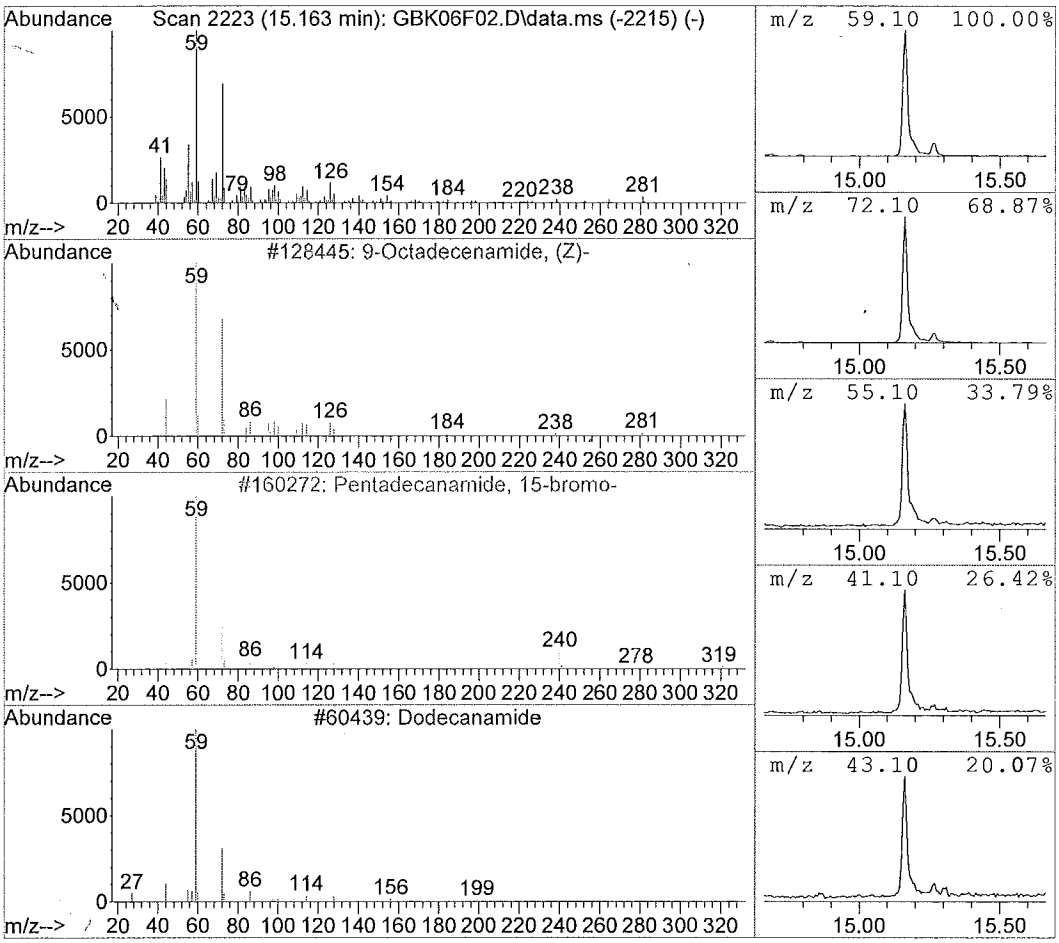
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK06F02.D Vial: 5
Acq On : 06/12/2015 18:52 Operator: DJC
Sample : 1515542002 F9M22 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.16	2.86 ug/ml	414616	Chrysene-d12	2895127

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00
3	Dodecanamide	60439	001120-16-7	53.00
4	Pentanamide, 4-methyl-	7815	001119-29-5	47.00
5	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	47.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M23

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542003

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBK07F03

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 30.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	6000	U
108-95-2	Phenol	6000	U
111-44-4	Bis(2-chloroethyl)ether	6000	U
95-57-8	2-Chlorophenol	6000	U
95-48-7	2-Methylphenol	6000	U
108-60-1	2,2'-Oxybis(1-chloropropane)	6000	U
98-86-2	Acetophenone	6000	U
106-44-5	4-Methylphenol	6000	U
621-64-7	N-Nitroso-di-n-propylamine	6000	U
67-72-1	Hexachloroethane	6000	U
98-95-3	Nitrobenzene	6000	U
78-59-1	Isophorone	6000	U
88-75-5	2-Nitrophenol	6000	U
105-67-9	2,4-Dimethylphenol	6000	U
111-91-1	Bis(2-chloroethoxy)methane	6000	U
120-83-2	2,4-Dichlorophenol	6000	U
91-20-3	Naphthalene	6000	U
106-47-8	4-Chloroaniline	6000	U
87-68-3	Hexachlorobutadiene	6000	U
105-60-2	Caprolactam	6000	U
59-50-7	4-Chloro-3-methylphenol	6000	U
91-57-6	2-Methylnaphthalene	6000	U
77-47-4	Hexachlorocyclopentadiene	6000	U
88-06-2	2,4,6-Trichlorophenol	6000	U
95-95-4	2,4,5-Trichlorophenol	6000	U
92-52-4	1,1'-Biphenyl	6000	U
91-58-7	2-Chloronaphthalene	6000	U
88-74-4	2-Nitroaniline	12000	U
131-11-3	Dimethylphthalate	6000	U
606-20-2	2,6-Dinitrotoluene	6000	U
208-96-8	Acenaphthylene	6000	U
99-09-2	3-Nitroaniline	12000	U
83-32-9	Acenaphthene	830	J

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M23

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542003

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBK07F03

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 30.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	12000	U
100-02-7	4-Nitrophenol	12000	U
132-64-9	Dibenzofuran	6000	U
121-14-2	2,4-Dinitrotoluene	6000	U
84-66-2	Diethylphthalate	6000	U
86-73-7	Fluorene	1800	J
7005-72-3	4-Chlorophenyl-phenylether	6000	U
100-01-6	4-Nitroaniline	12000	U
534-52-1	4,6-Dinitro-2-methylphenol	12000	U
86-30-6	N-Nitrosodiphenylamine[1]	6000	U
95-94-3	1,2,4,5-Tetrachlorobenzene	6000	U
101-55-3	4-Bromophenyl-phenylether	6000	U
118-74-1	Hexachlorobenzene	6000	U
1912-24-9	Atrazine	6000	U
87-86-5	Pentachlorophenol	12000	U
85-01-8	Phenanthrene	5800	J
120-12-7	Anthracene	2600	J
86-74-8	Carbazole	6000	U
84-74-2	Di-n-butylphthalate	6000	U
206-44-0	Fluoranthene	1800	J
129-00-0	Pyrene	19000	
85-68-7	Butylbenzylphthalate	6000	U
91-94-1	3,3'-Dichlorobenzidine	6000	U
56-55-3	Benzo(a)anthracene	1900	J
218-01-9	Chrysene	2600	J
117-81-7	Bis(2-ethylhexyl)phthalate	6000	U
117-84-0	Di-n-octylphthalate	6000	U
205-99-2	Benzo(b)fluoranthene	650	J
207-08-9	Benzo(k)fluoranthene	6000	U
50-32-8	Benzo(a)pyrene	1900	J
193-39-5	Indeno(1,2,3-cd)pyrene	6000	U
53-70-3	Dibenzo(a,h)anthracene	6000	U
191-24-2	Benzo(g,h,i)perylene	550	J
58-90-2	2,3,4,6-Tetrachlorophenol	6000	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M23

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542003
Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBK07F03
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015
GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 30.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.56	9600	JB
02	2027-17-0	Naphthalene, 2-(1-methylethyl)-	9.22	7800	JN
03	2131-42-2	Naphthalene, 1,4,6-trimethyl-	9.37	6200	JN
04	2131-41-1	Naphthalene, 1,4,5-trimethyl-	9.74	5200	JN
05	33930-85-7	Benzene, (4,5,5-trimethyl-1,3-cyclopentadien-1-y	10.49	5700	JN
06		Unknown 9H-Fluorene, 1-methyl-	10.96	6200	J
07	1430-97-3	9H-Fluorene, 2-methyl-	11.00	4700	JN
08		Unknown 4,4'-Dimethylbiphenyl	11.23	4600	J
09		Unknown 9H-Fluorene, 9,9-dimethyl-	11.89	6100	J
10	31317-07-4	1-Methyldibenzothiophene	12.26	6400	JN
11	2531-84-2	Phenanthrene, 2-methyl-	12.59	5800	JN
12	949-41-7	1H-Cyclopropa[l]phenanthrene,1a,9b-dihydro-	12.64	12000	JN
13	949-41-7	1H-Cyclopropa[l]phenanthrene,1a,9b-dihydro-	12.79	8900	JN
14	3674-66-6	Phenanthrene, 2,5-dimethyl-	13.60	12000	JN
15		Unknown Anthracene, 1,4-dimethyl-	13.64	12000	J
16	1576-67-6	Phenanthrene, 3,6-dimethyl-	13.69	4500	JN
17	3674-73-5	Phenanthrene, 2,3,5-trimethyl-	14.32	5500	JN
18	2381-21-7	Pyrene, 1-methyl-	14.82	5800	JN
19	2381-21-7	Pyrene, 1-methyl-	14.94	8400	JN
20	2381-21-7	Pyrene, 1-methyl-	14.99	8100	JN
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

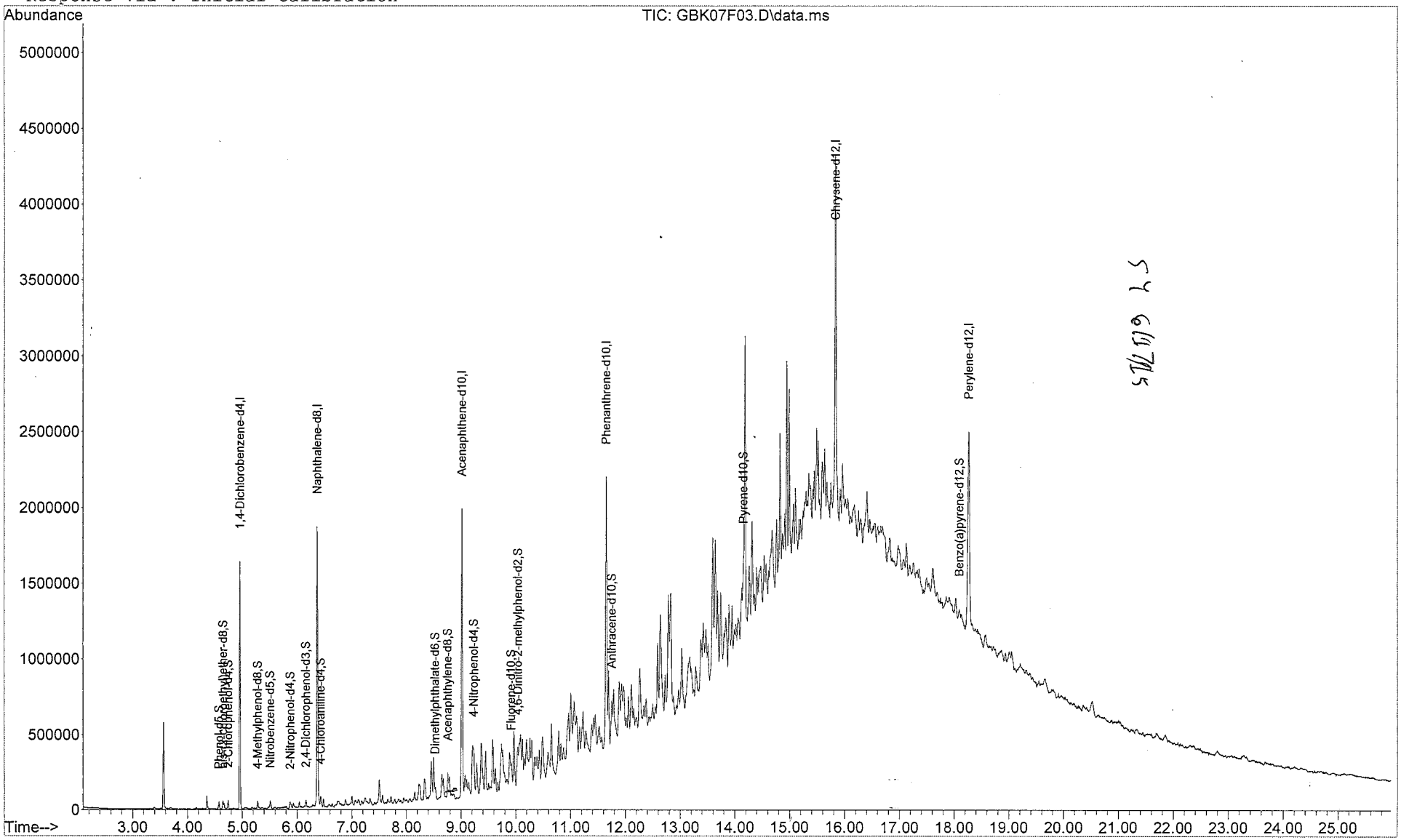
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 17 08:00:54 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 17 08:00:54 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	299613	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1120798	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	651208	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1095066	20.00 ug/ml
73) Chrysene-d12	15.84	240	1104801	20.00 ug/ml
81) Perylene-d12	18.27	264	986208	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	19654	0.941ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	11547	0.903ug/mL
7) 2-Chlorophenol-d4	4.74	132	20023	0.976ug/ml
13) 4-Methylphenol-d8	5.28	113	14976	0.921ug/mL
17) Nitrobenzene-d5	5.51	128	9527	1.013ug/ml
21) 2-Nitrophenol-d4	5.87	143	10609	1.012ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	15588	1.015ug/mL
28) 4-Chloroaniline-d4	6.43	131	26345	1.582ug/mL
42) Dimethylphthalate-d6	8.53	166	49131	1.241ug/mL
45) Acenaphthylene-d8	8.75	160	62206	1.177ug/mL
50) 4-Nitrophenol-d4	9.24	143	6602	0.783ug/mL
57) Fluorene-d10	9.92	176	46479	1.351ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	6805	0.946ug/mL
69) Anthracene-d10	11.75	188	73544	1.328ug/mL
75) Pyrene-d10	14.16	212	64990	1.294ug/mL
86) Benzo(a)pyrene-d12	18.09	264	56768	1.269ug/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)

: 88329

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 17 08:00:54 2015 Results File: GSOM01D4.RES

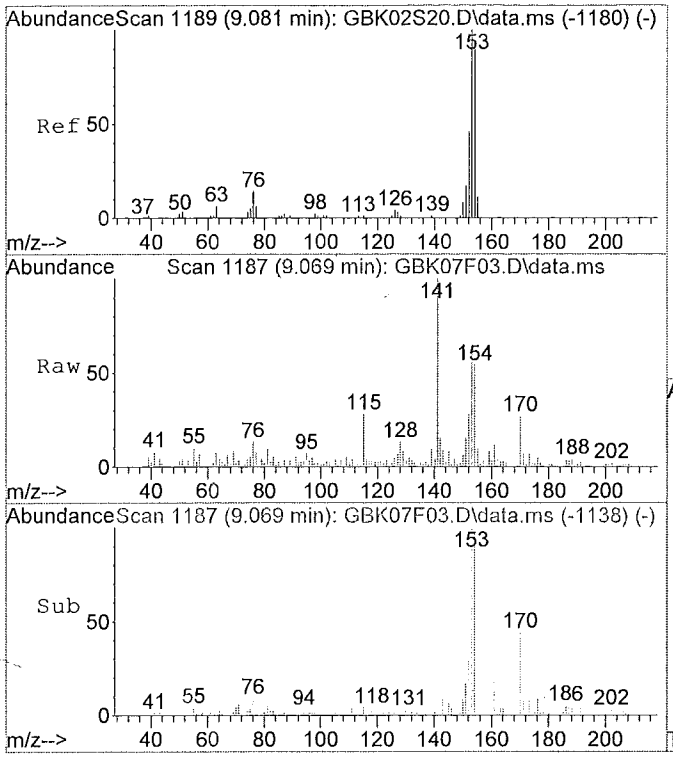
Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

	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	9.07	153	25903	0.707ug/ml	97
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	9.97	166	62238	1.559ug/ml	89
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	11.69	178	294714	4.921ug/ml	95
68)	Anthracene	11.79	178	137871	2.256ug/ml	56
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	13.83	202	94480	1.530ug/ml	89
74)	Pyrene	14.19	202	1092064	15.963ug/ml	96
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	15.82	228	100291	1.597ug/ml	37
79)	Chrysene	15.87	228	127092	2.230ug/ml	57
80)	Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	17.50	252	31714	0.553ug/ml m	80
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	18.04	252	90109	1.630ug/ml	89
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	21.85	276	25841	0.471ug/ml	81

SY 6/17/15

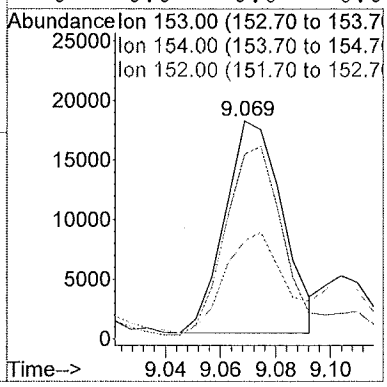
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

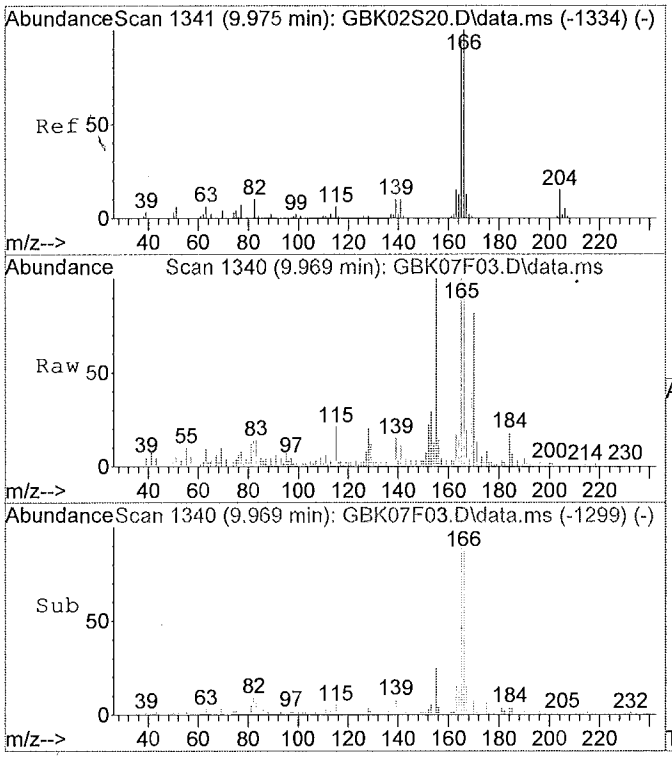
00330



#47
Acenaphthene
Concen: 0.71 ug/ml
RT: 9.07 min Scan# 1187
Delta R.T. -0.01 min
Lab File: GBK07F03.D
Acq: 06/12/2015 19:24

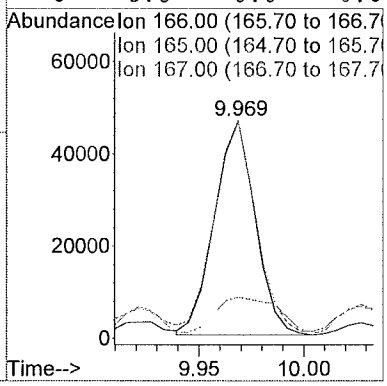
Tgt Ion:153	Resp:	25903	
Ion	Ratio	Lower	Upper
153	100		
154	101.7	71.2	132.2
152	53.9	33.5	62.3
0	0.0	0.0	0.0

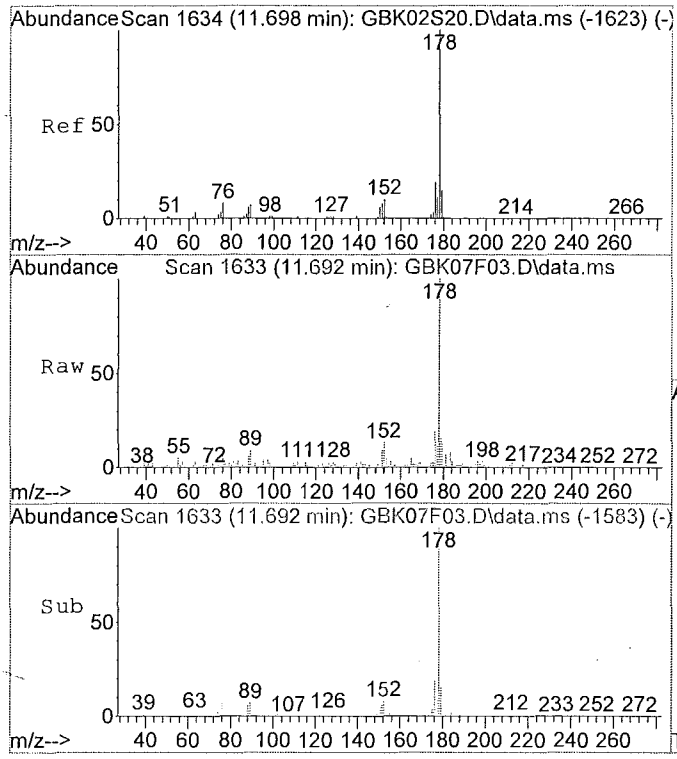




#56
Fluorene
Concen: 1.56 ug/ml
RT: 9.97 min Scan# 1340
Delta R.T. -0.01 min
Lab File: GBK07F03.D
Acq: 06/12/2015 19:24

Tgt Ion:166	Resp:	62238	
Ion	Ratio	Lower	Upper
166	100		
165	99.0	63.8	118.4
167	25.7	9.3	17.3#
0	0.0	0.0	0.0

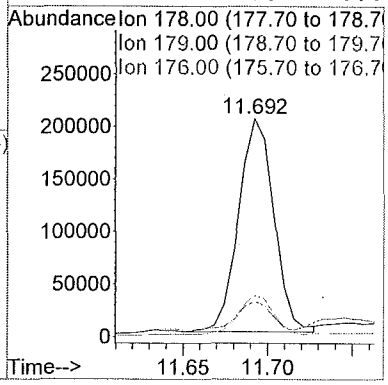


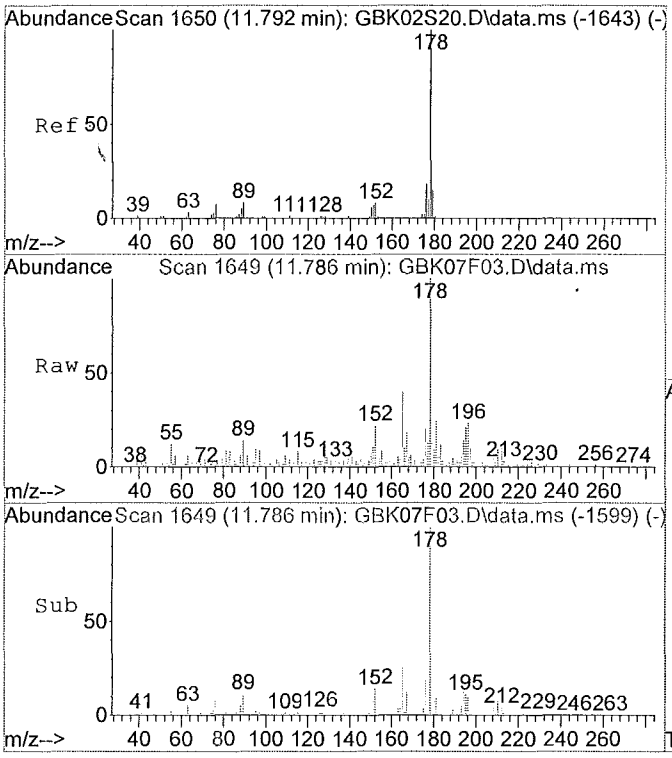


#67
Phenanthrene
Concen: 4.92 ug/ml
RT: 11.69 min Scan# 1633
Delta R.T. -0.01 min
Lab File: GBK07F03.D
Acq: 06/12/2015 19:24

Tgt Ion:178 Resp: 294714

Ion	Ratio	Lower	Upper
178	100		
179	12.9	10.6	19.8
176	20.8	13.2	24.4
0	0.0	0.0	0.0

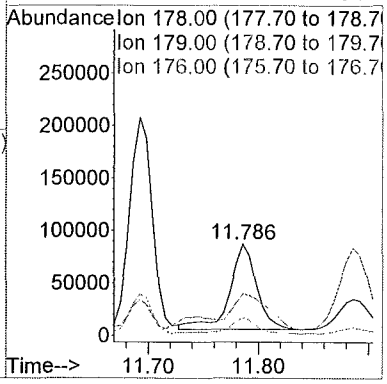


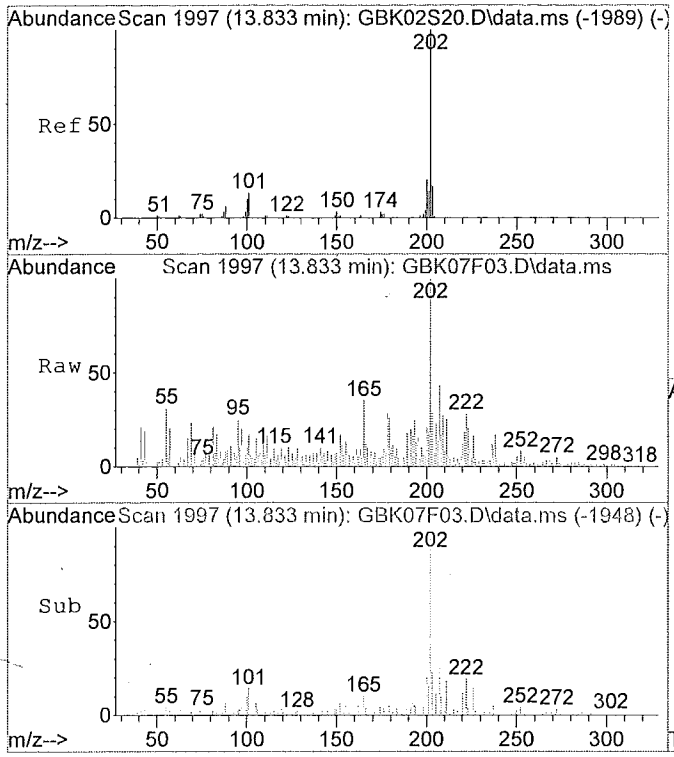


#68
Anthracene
Concen: 2.26 ug/ml
RT: 11.79 min Scan# 1649
Delta R.T. -0.01 min
Lab File: GBK07F03.D
Acq: 06/12/2015 19:24

Tgt Ion:178 Resp: 137871

Ion	Ratio	Lower	Upper
178	100		
179	54.6	10.5	19.5#
176	17.1	12.7	23.5
0	0.0	0.0	0.0

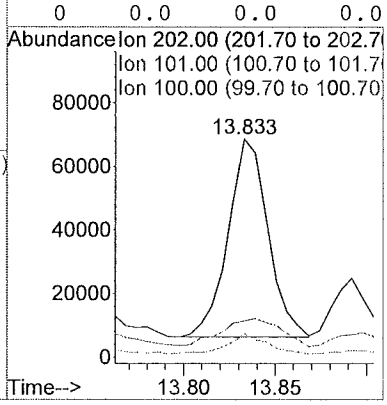


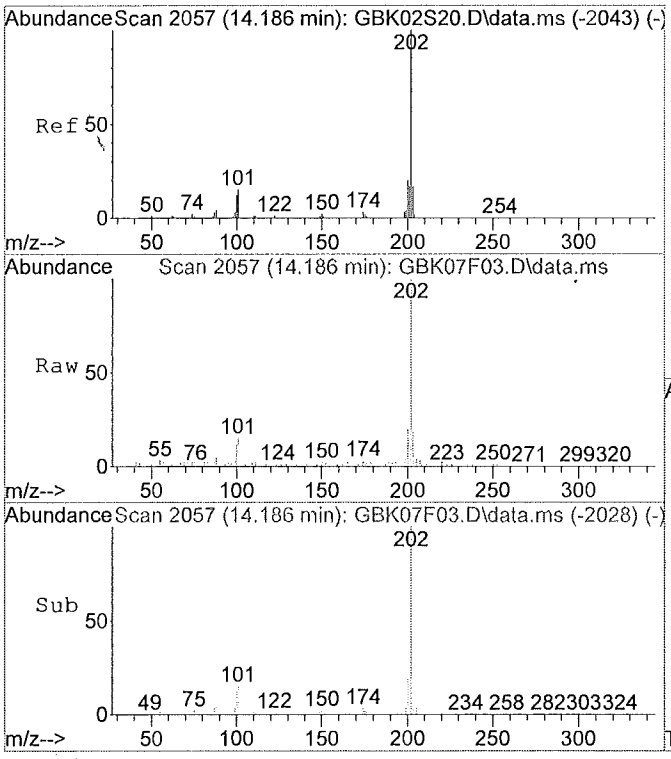


#72
Fluoranthene
Concen: 1.53 ug/ml
RT: 13.83 min Scan# 1997
Delta R.T. -0.00 min
Lab File: GBK07F03.D
Acq: 06/12/2015 19:24

Tgt Ion:202 Resp: 94480

Ion	Ratio	Lower	Upper
202	100		
101	22.3	10.5	19.5#
100	10.0	7.4	13.8
0	0.0	0.0	0.0

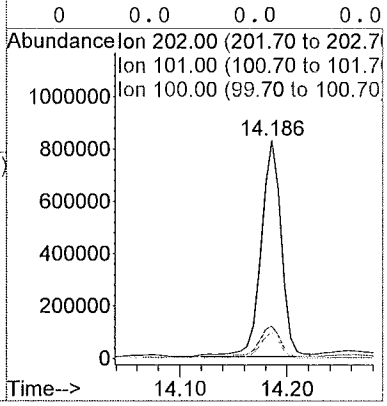


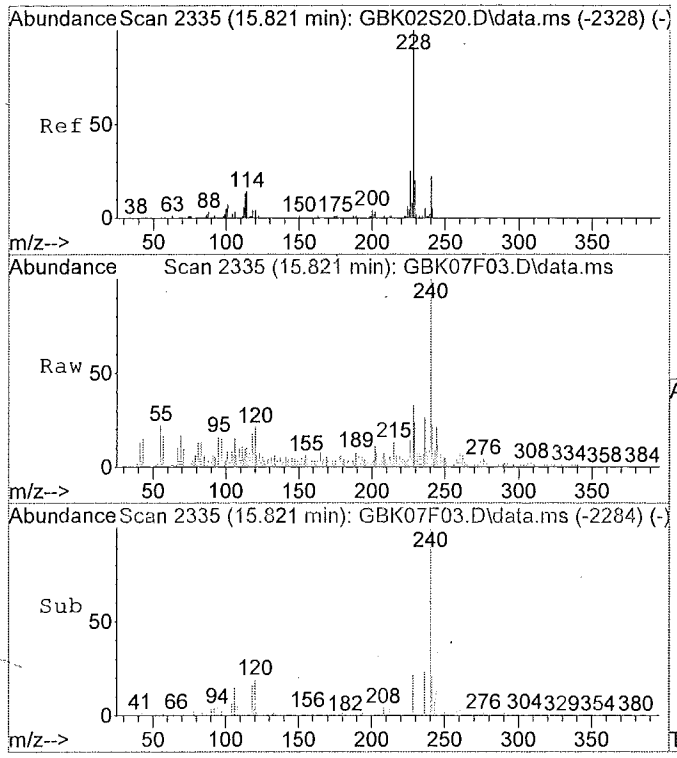


#74
Pyrene
Concen: 15.96 ug/ml
RT: 14.19 min Scan# 2057
Delta R.T. -0.00 min
Lab File: GBK07F03.D
Acq: 06/12/2015 19:24

Tgt Ion:202 Resp: 1092064

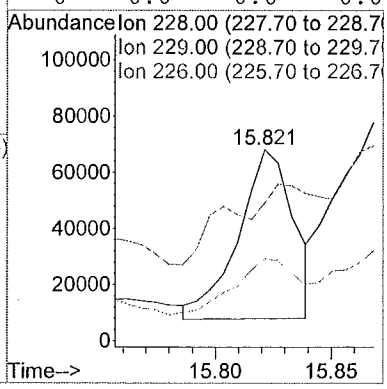
Ion	Ratio	Lower	Upper
202	100		
101	16.8	12.2	22.7
100	11.5	10.1	18.7
0	0.0	0.0	0.0

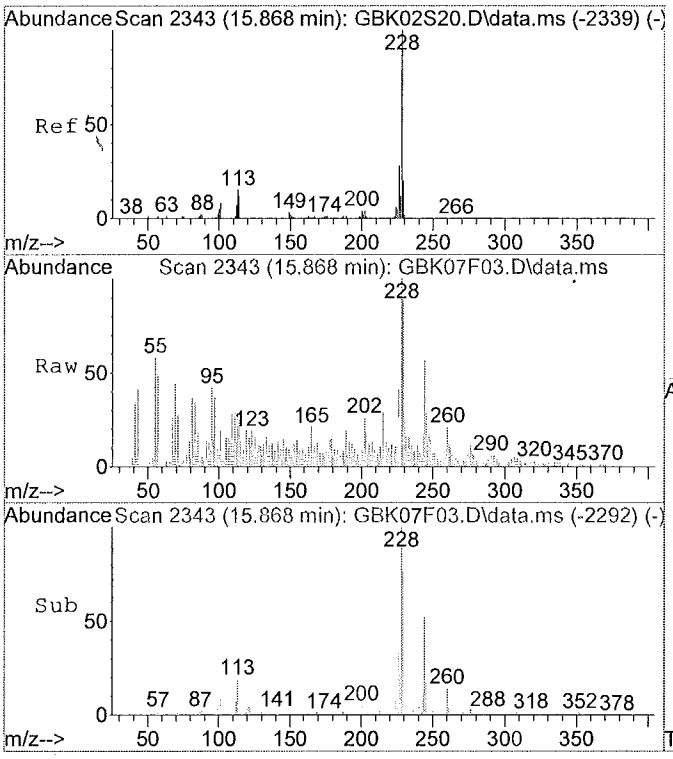




#78
Benzo(a)anthracene
Concen: 1.60 ug/ml
RT: 15.82 min Scan# 2335
Delta R.T. 0.00 min
Lab File: GBK07F03.D
Acq: 06/12/2015 19:24

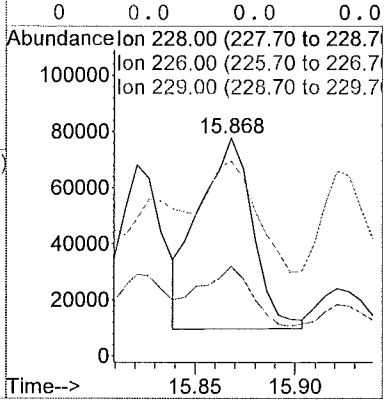
Tgt Ion:228	Resp:	100291	
Ion	Ratio	Lower	Upper
228	100		
229	72.6	13.7	25.5#
226	37.7	18.2	33.8#
0	0.0	0.0	0.0

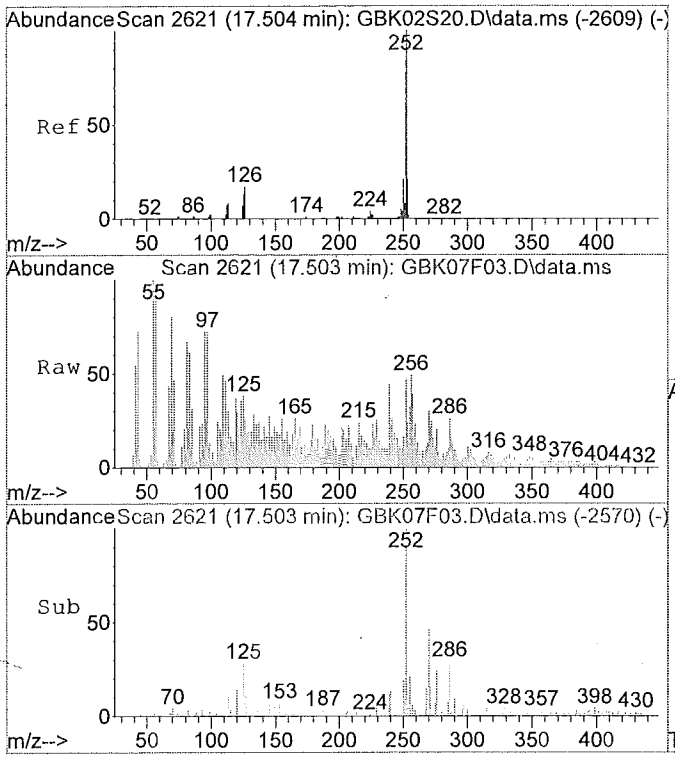




#79
Chrysene
Concen: 2.23 ug/ml
RT: 15.87 min Scan# 2343
Delta R.T. 0.00 min
Lab File: GBK07F03.D
Acq: 06/12/2015 19:24

Tgt Ion:228	Resp:	127092	
Ion	Ratio	Lower	Upper
228	100		
226	27.4	20.1	37.3
229	66.0	13.7	25.5#
0	0.0	0.0	0.0

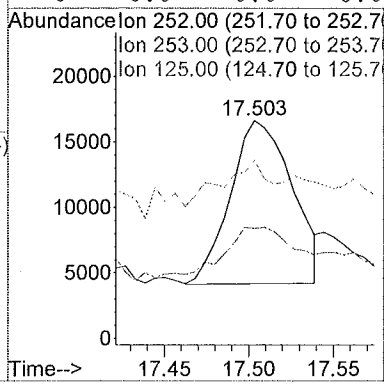


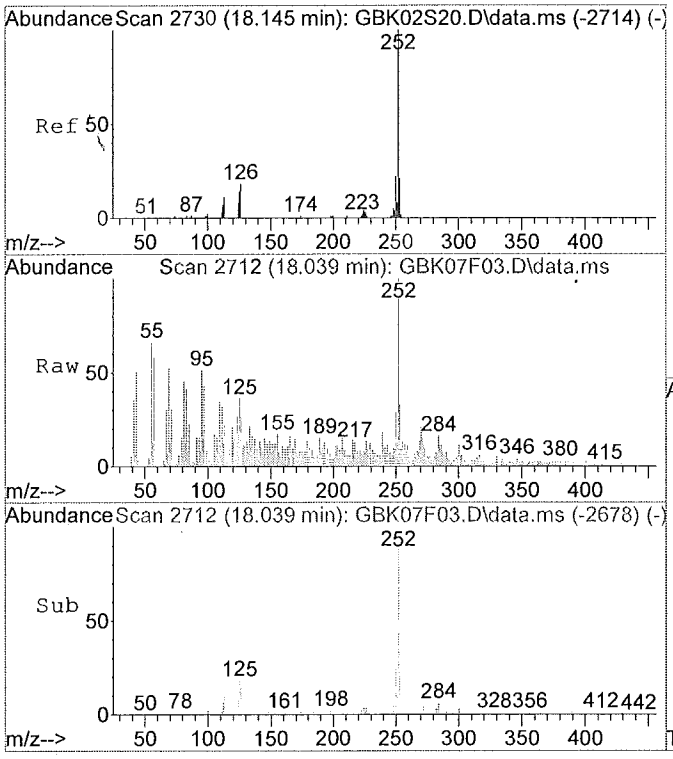


#83
Benzo(b)fluoranthene
Concen: 0.55 ug/ml m
RT: 17.50 min Scan# 2621
Delta R.T. 0.01 min
Lab File: GBK07F03.D
Acq: 06/12/2015 19:24

Tgt Ion:252 Resp: 31714

Ion	Ratio	Lower	Upper
252	100		
253	43.2	15.1	28.1#
125	20.8	10.6	19.8#
0	0.0	0.0	0.0

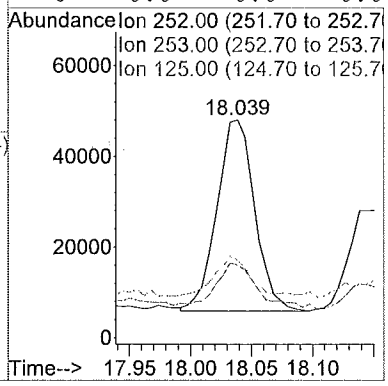


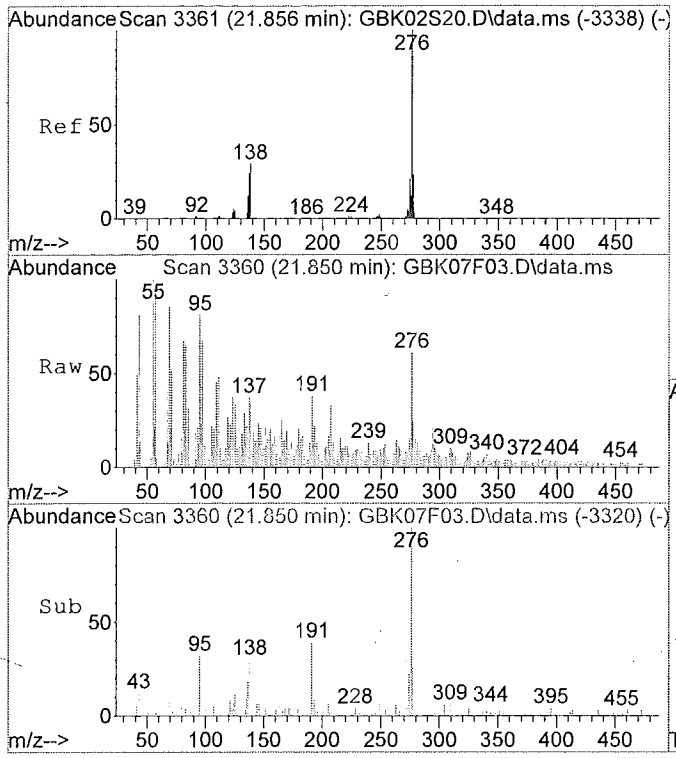


#85
Benzo(a)pyrene
Concen: 1.63 ug/ml
RT: 18.04 min Scan# 2712
Delta R.T. -0.10 min
Lab File: GBK07F03.D
Acq: 06/12/2015 19:24

Tgt Ion:252 Resp: 90109

Ion	Ratio	Lower	Upper
252	100		
253	27.0	15.2	28.2
125	21.7	11.8	21.8
0	0.0	0.0	0.0

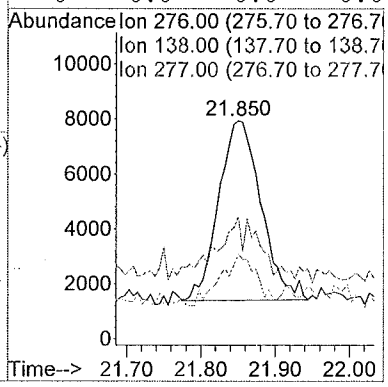




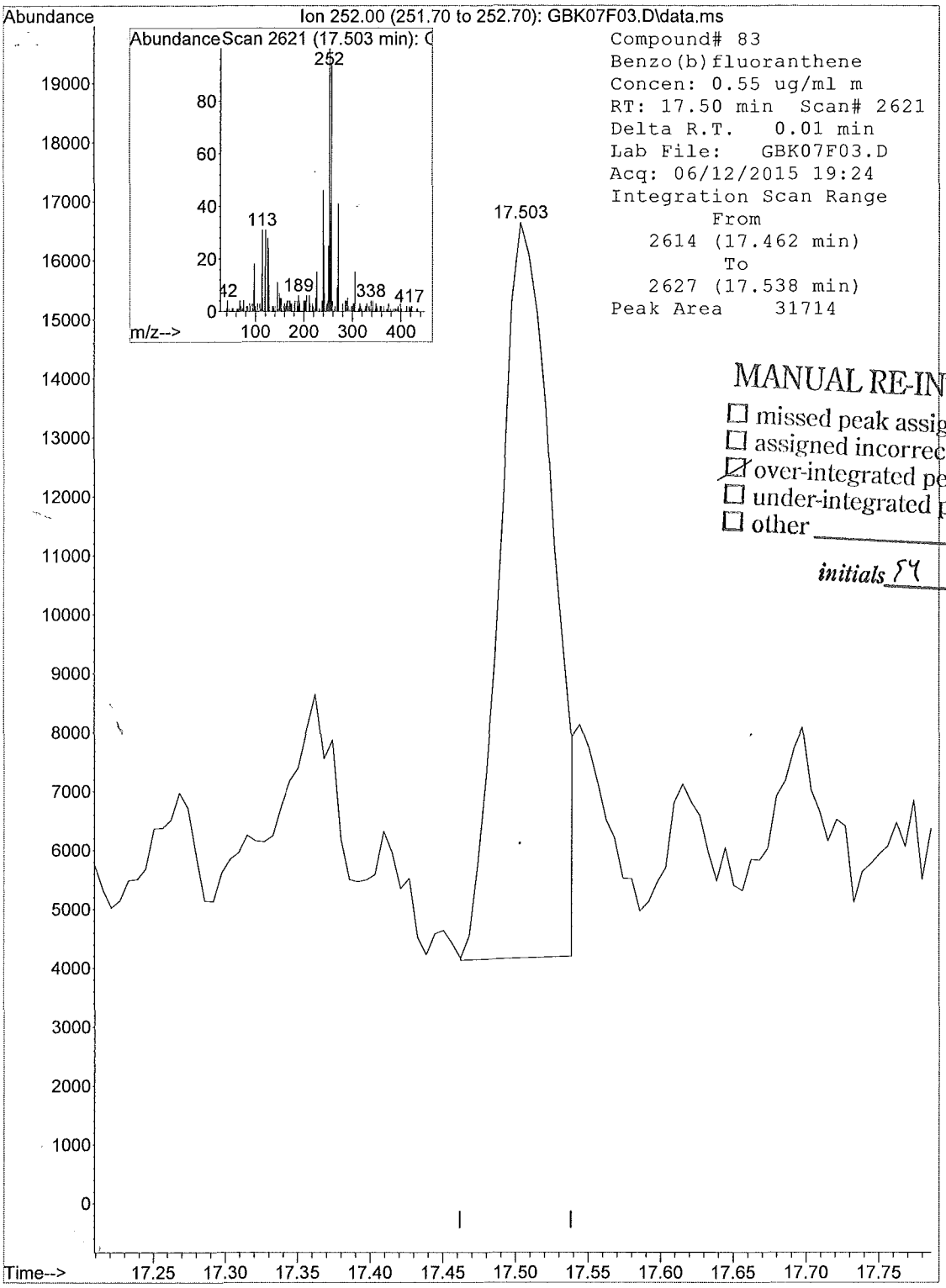
#89
Benzo(g,h,i)perylene
Concen: 0.47 ug/ml
RT: 21.85 min Scan# 3360
Delta R.T. 0.01 min
Lab File: GBK07F03.D
Acq: 06/12/2015 19:24

Tgt Ion:276 Resp: 25841

Ion	Ratio	Lower	Upper
276	100		
138	18.2	24.1	44.7#
277	26.8	16.7	30.9
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* 6/17/15

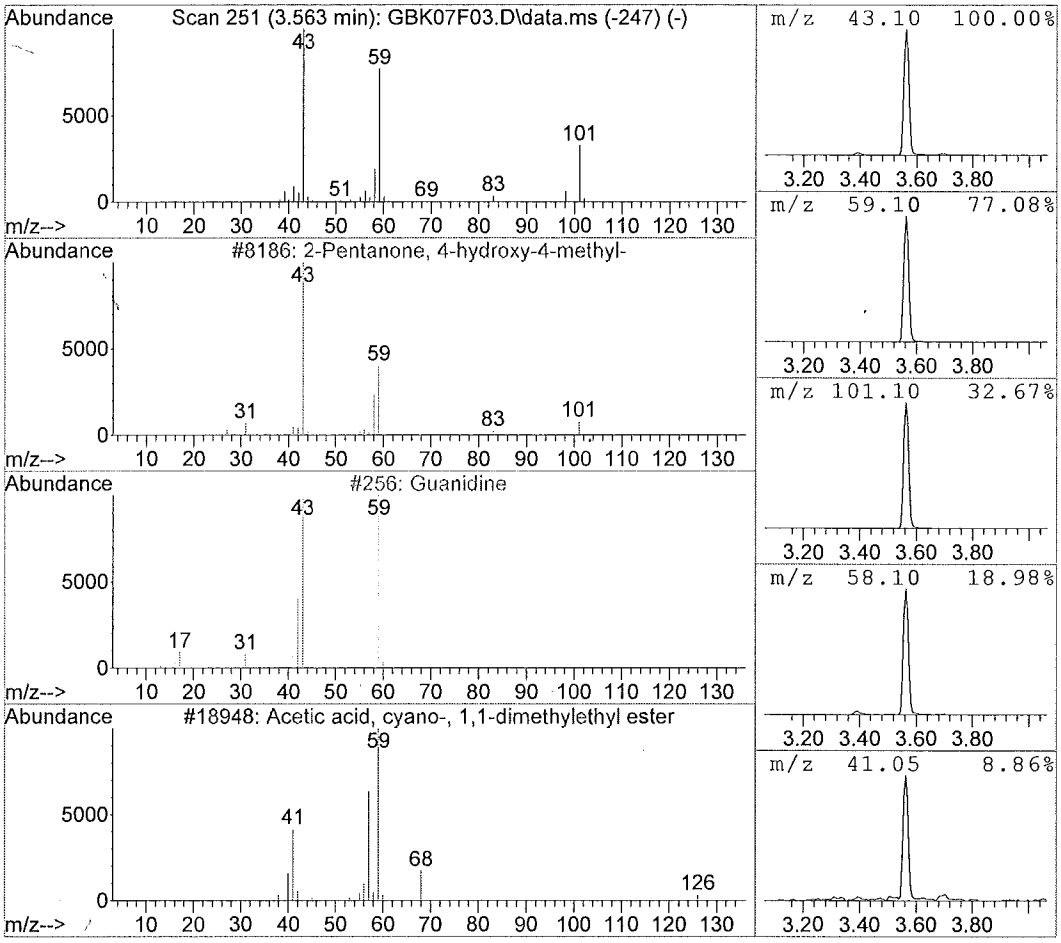
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.56	8.20 ug/ml	684607	1,4-Dichlorobenzene-d4	1669884

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	56.00
2	Guanidine	256	000113-00-8	50.00
3	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	28.00
4	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
5	Morpholine, 4-methyl-	4084	000109-02-4	9.00



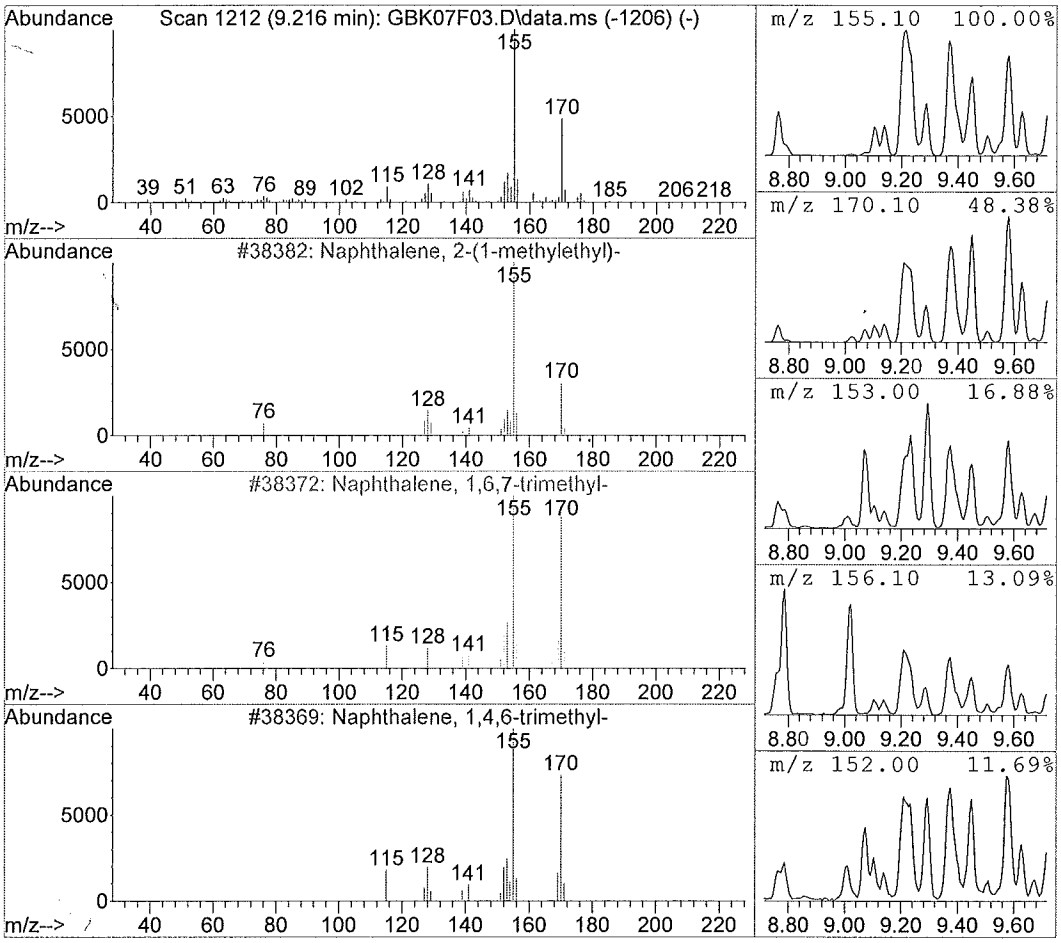
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.22	6.68 ug/ml	919558	Acenaphthene-d10	2754041

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 2-(1-methylethyl)-	38382	002027-17-0	94.00
2	Naphthalene, 1,6,7-trimethyl-	38372	002245-38-7	86.00
3	Naphthalene, 1,4,6-trimethyl-	38369	002131-42-2	86.00
4	2-Naphthyl methyl ketone	38306	000093-08-3	72.00
5	Ethanone, 1-(1-Naphthalenyl)-	38310	000941-98-0	72.00

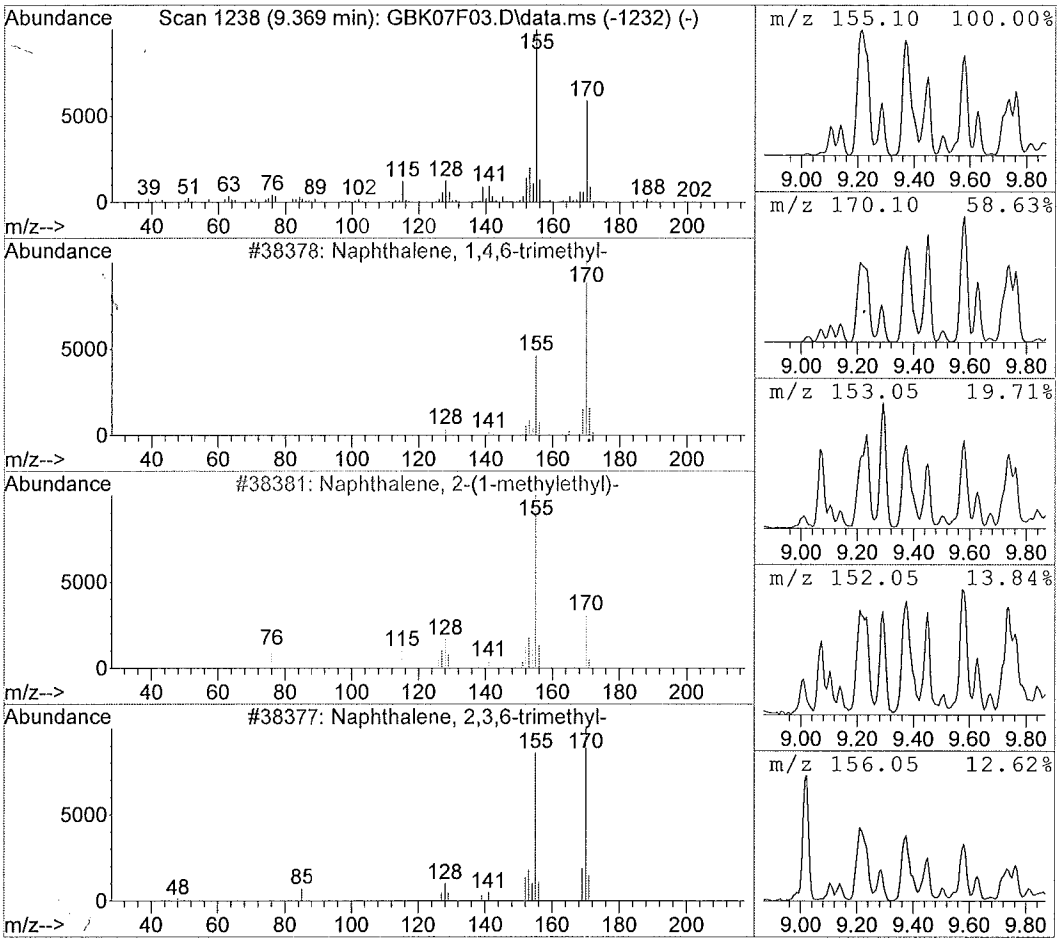


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.37	5.28 ug/ml	726873	Acenaphthene-d10	2754041

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1,4,6-trimethyl-	38378	002131-42-2	94.00
2	Naphthalene, 2-(1-methylethyl)-	38381	002027-17-0	94.00
3	Naphthalene, 2,3,6-trimethyl-	38377	000829-26-5	94.00
4	Naphthalene, 1,6,7-trimethyl-	38373	002245-38-7	94.00
5	Naphthalene, 1-(1-methylethyl)-	38379	006158-45-8	90.00

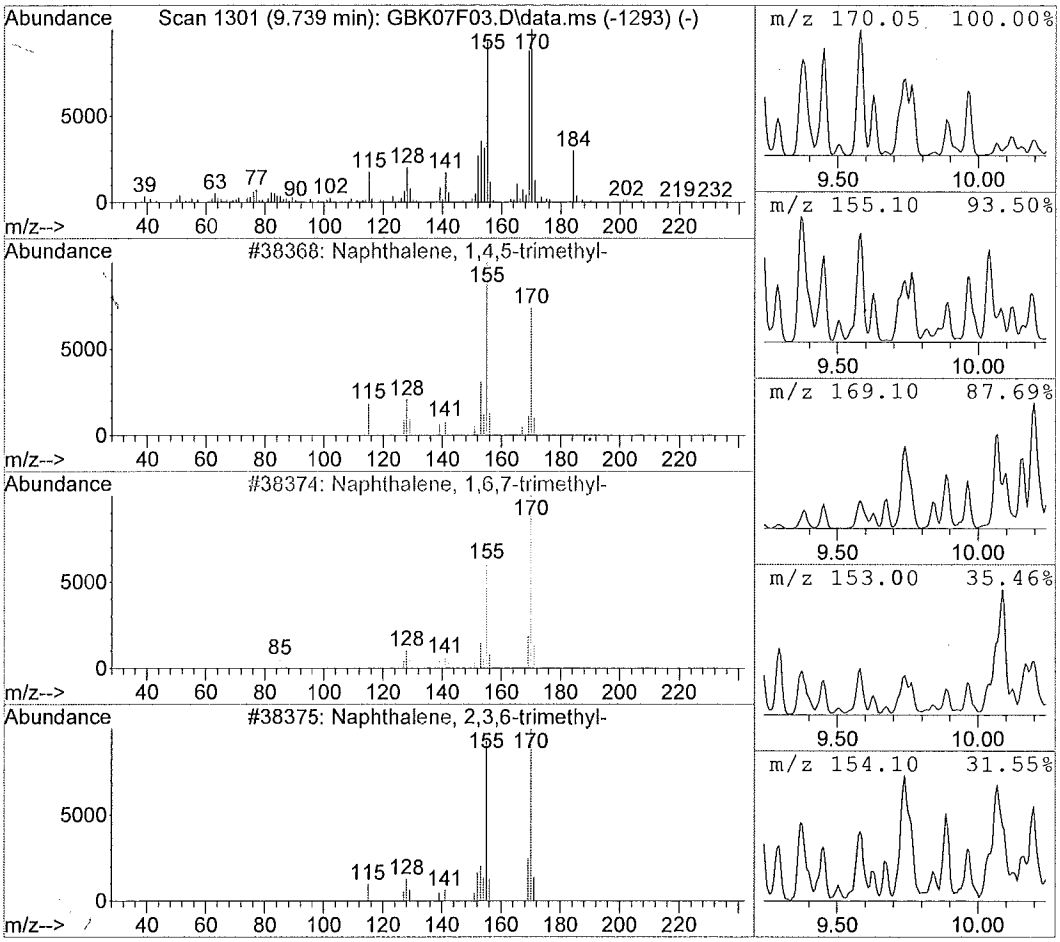


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.74	4.43 ug/ml	610254	Acenaphthene-d10	2754041

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1,4,5-trimethyl-	38368	002131-41-1	92.00
2	Naphthalene, 1,6,7-trimethyl-	38374	002245-38-7	91.00
3	Naphthalene, 2,3,6-trimethyl-	38375	000829-26-5	70.00
4	Naphthalene, 1,4,6-trimethyl-	38369	002131-42-2	70.00
5	4,6,8-Trimethylazulene	38363	000941-81-1	58.00

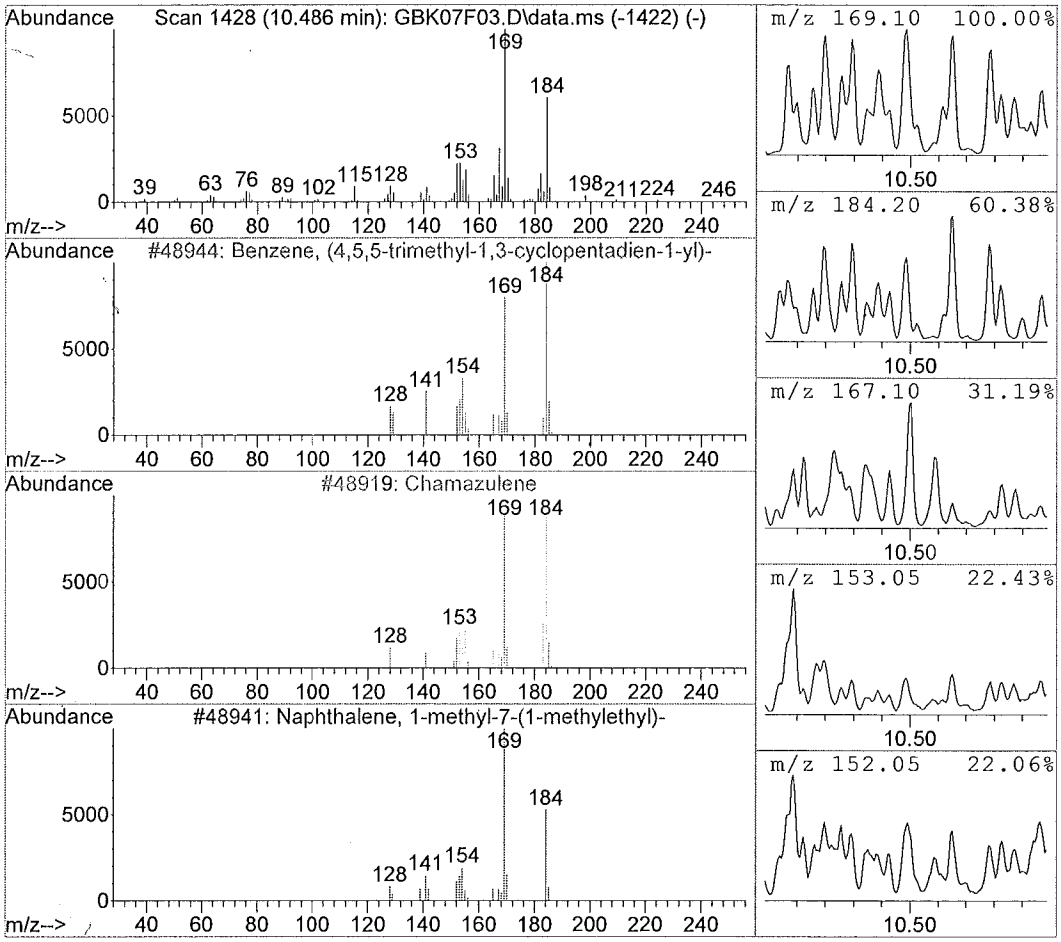


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.49	4.88 ug/ml	661883	Phenanthrene-d10	2712831

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzene, (4,5,5-trimethyl-1,3-cyclo	48944	033930-85-7	91.00
2	Chamazulene	48919	000529-05-5	90.00
3	Naphthalene, 1-methyl-7-(1-methylet	48941	000490-65-3	58.00
4	Cyclopentene, 1,2-dimethyl-4-methyl	48943	1000152-22-4	53.00
5	Phenol, 3,4,5-trimethoxy-	49268	000642-71-7	49.00



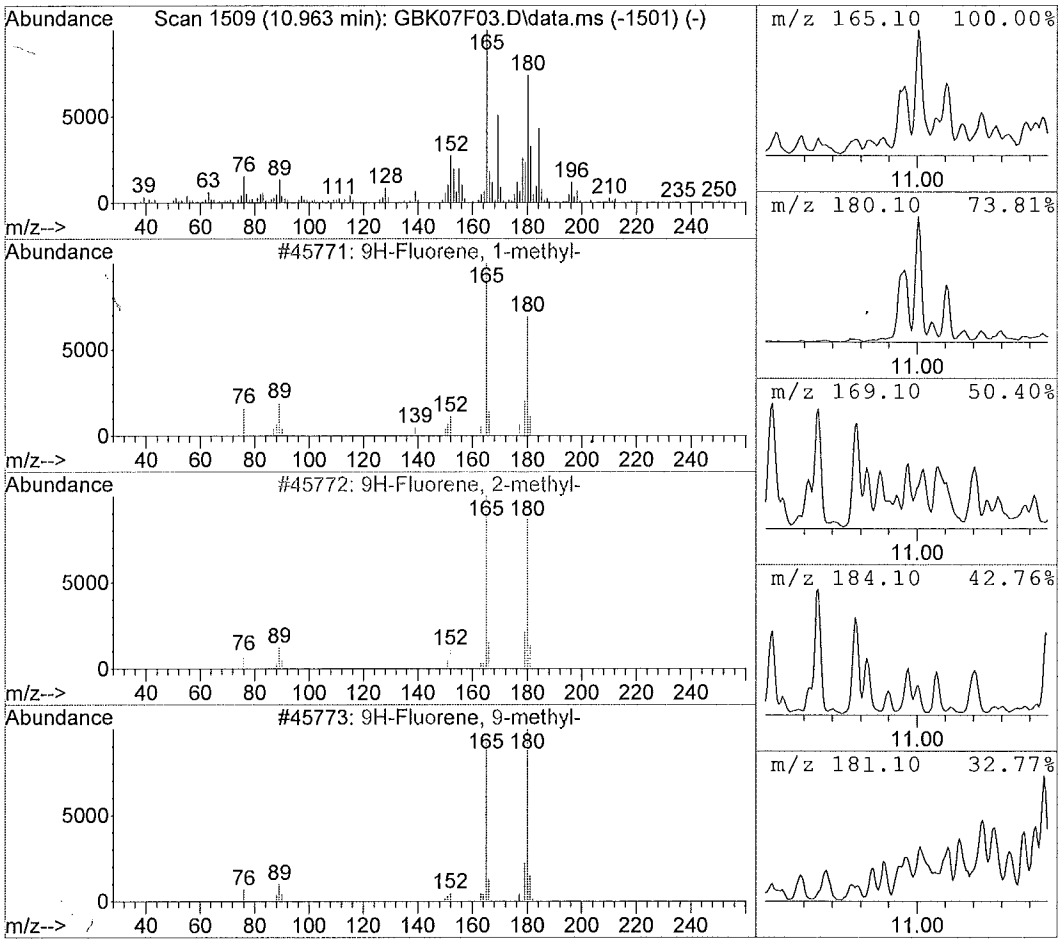
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.96	5.26 ug/ml	713937	Phenanthrene-d10	2712831

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9H-Fluorene, 1-methyl-	45771	001730-37-6	70.00
2	9H-Fluorene, 2-methyl-	45772	001430-97-3	55.00
3	9H-Fluorene, 9-methyl-	45773	002523-37-7	49.00
4	9H-Fluorene, 4-methyl-	45769	001556-99-6	46.00
5	9H-Fluorene, 3-methyl-	45770	002523-39-9	45.00

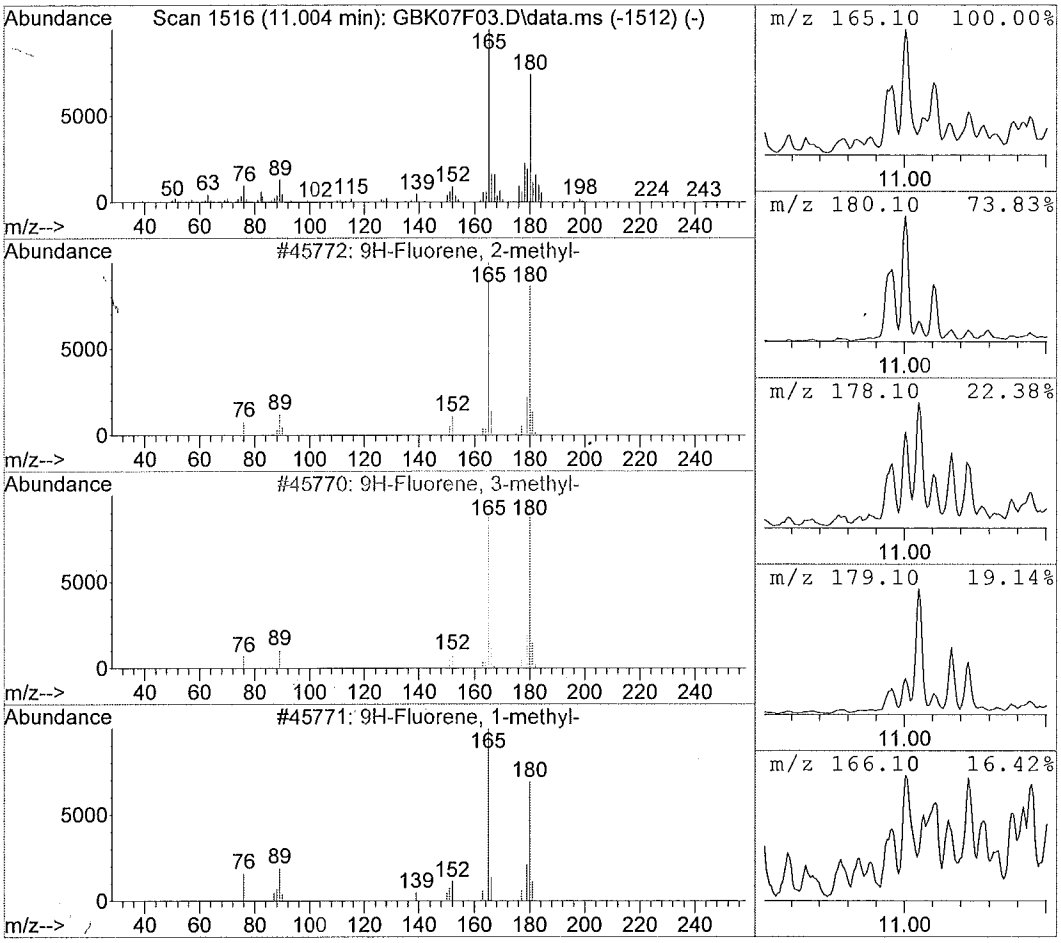


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.00	4.05 ug/ml	549694	Phenanthrene-d10	2712831

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9H-Fluorene, 2-methyl-	45772	001430-97-3	96.00
2	9H-Fluorene, 3-methyl-	45770	002523-39-9	95.00
3	9H-Fluorene, 1-methyl-	45771	001730-37-6	94.00
4	9H-Fluorene, 9-methyl-	45773	002523-37-7	93.00
5	Ethylene, 1,1-diphenyl-	45784	000530-48-3	49.00

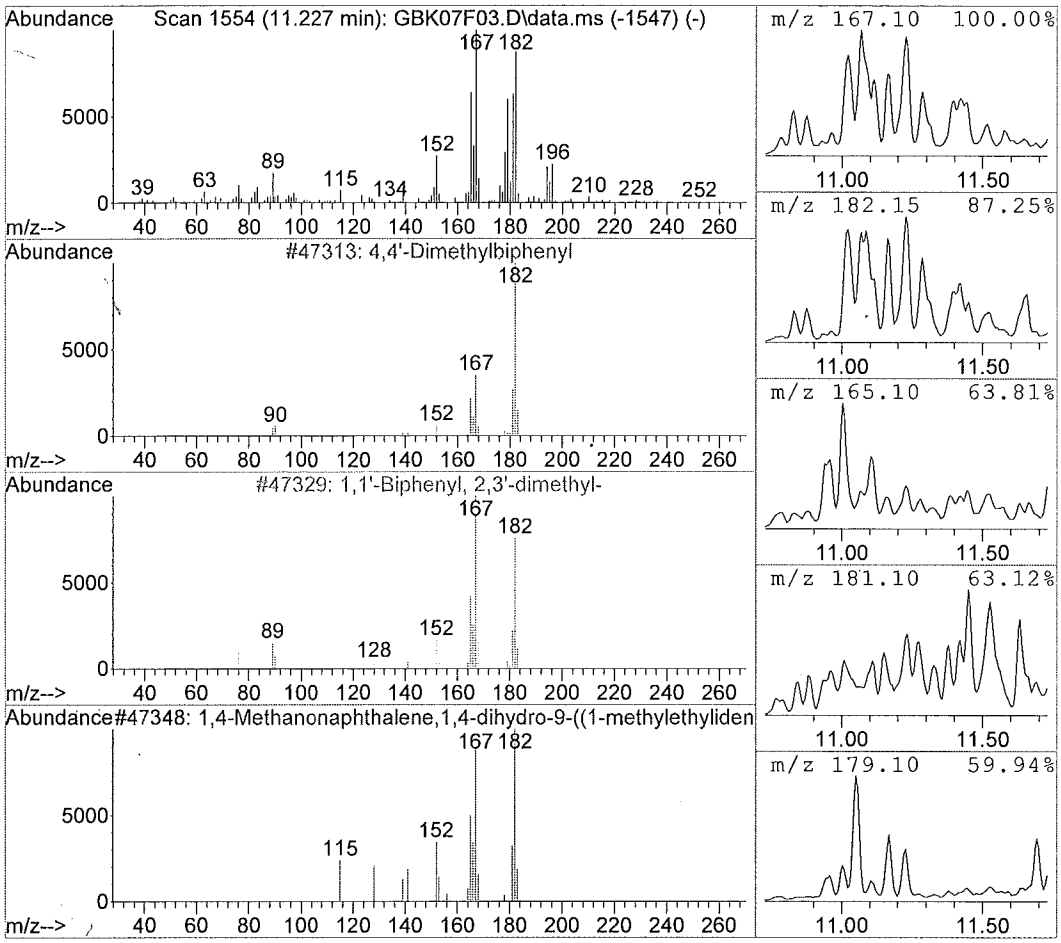


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : luL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.23	3.97 ug/ml	538579	Phenanthrene-d10	2712831

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4,4'-Dimethylbiphenyl	47313	000613-33-2	70.00
2	1,1'-Biphenyl, 2,3'-dimethyl-	47329	000611-43-8	58.00
3	1,4-Methanonaphthalene,1,4-dihydro-	47348	007350-72-3	58.00
4	1,1'-Biphenyl, 2-ethyl-	47322	001812-51-7	53.00
5	Benzene, 1-methyl-2-(phenylmethyl)-	47342	000713-36-0	49.00

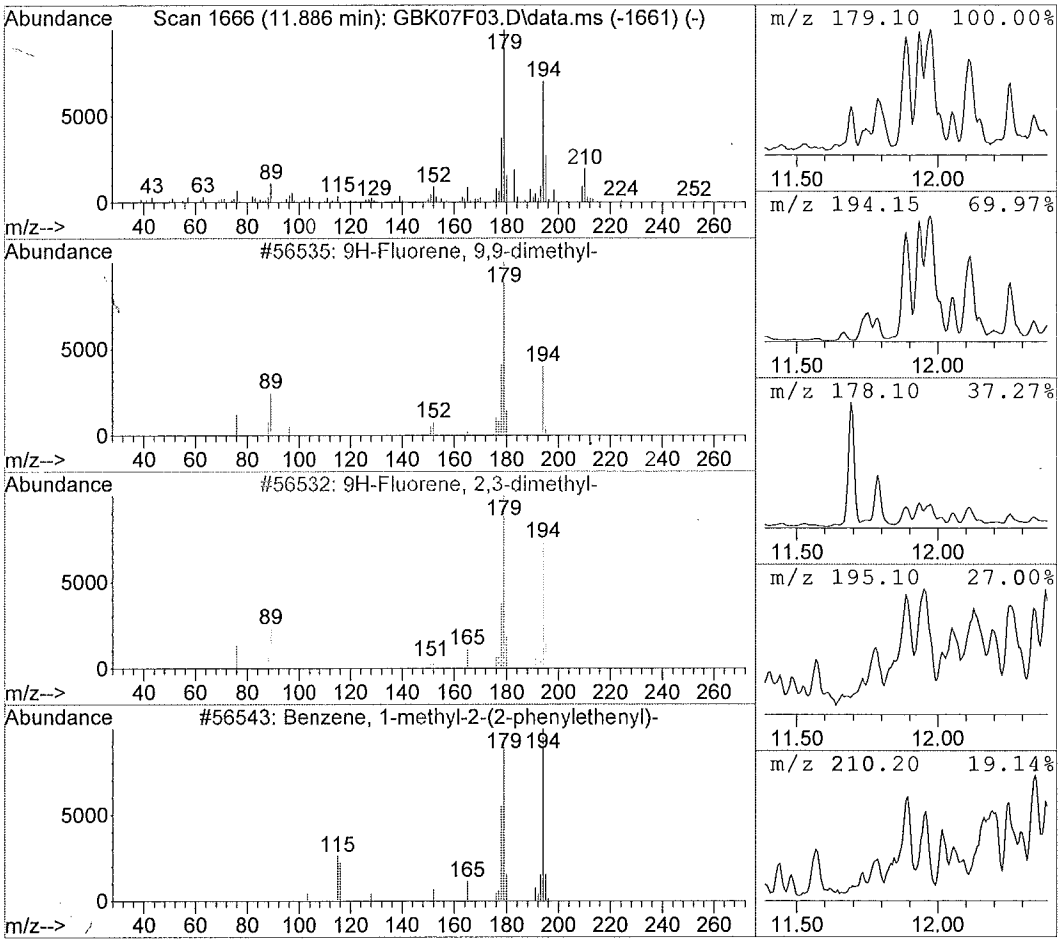


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NISTl1.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.89	5.18 ug/ml	702174	Phenanthrene-d10	2712831

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9H-Fluorene, 9,9-dimethyl-	56535	004569-45-3	70.00
2	9H-Fluorene, 2,3-dimethyl-	56532	004612-63-9	68.00
3	Benzene, 1-methyl-2-(2-phenyletheny	56543	074685-42-0	55.00
4	.alpha.-Methylstilbene	56525	000779-51-1	49.00
5	Phenanthrene, 9,10-dihydro-1-methyl	56540	095676-48-5	45.00

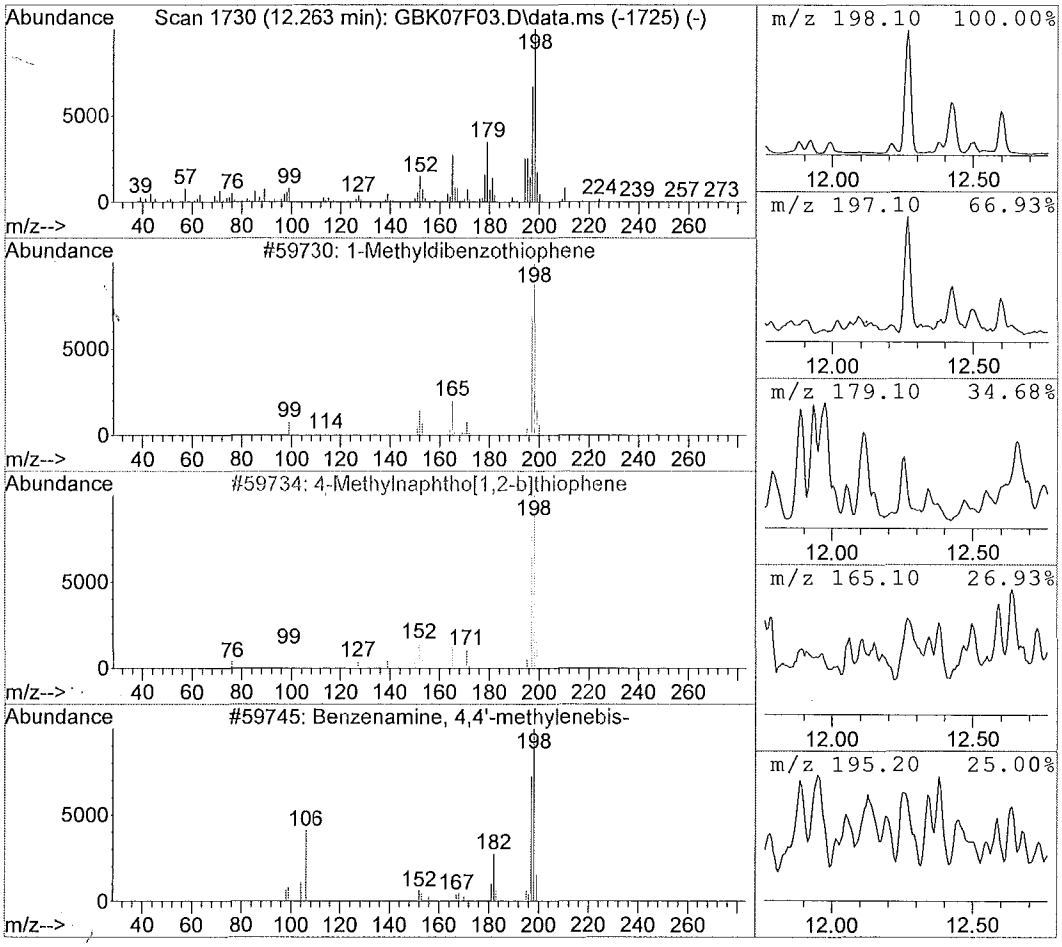


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.26	5.48 ug/ml	743570	Phenanthrene-d10	2712831

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Methyldibenzothiophene	59730	031317-07-4	92.00
2	4-Methylnaphtho[1,2-b]thiophene	59734	067388-11-8	60.00
3	Benzenamine, 4,4'-methylenebis-	59745	000101-77-9	53.00
4	Thioxanthene	59726	000261-31-4	50.00
5	Dibenzothiophene, 4-methyl-	59733	007372-88-5	49.00

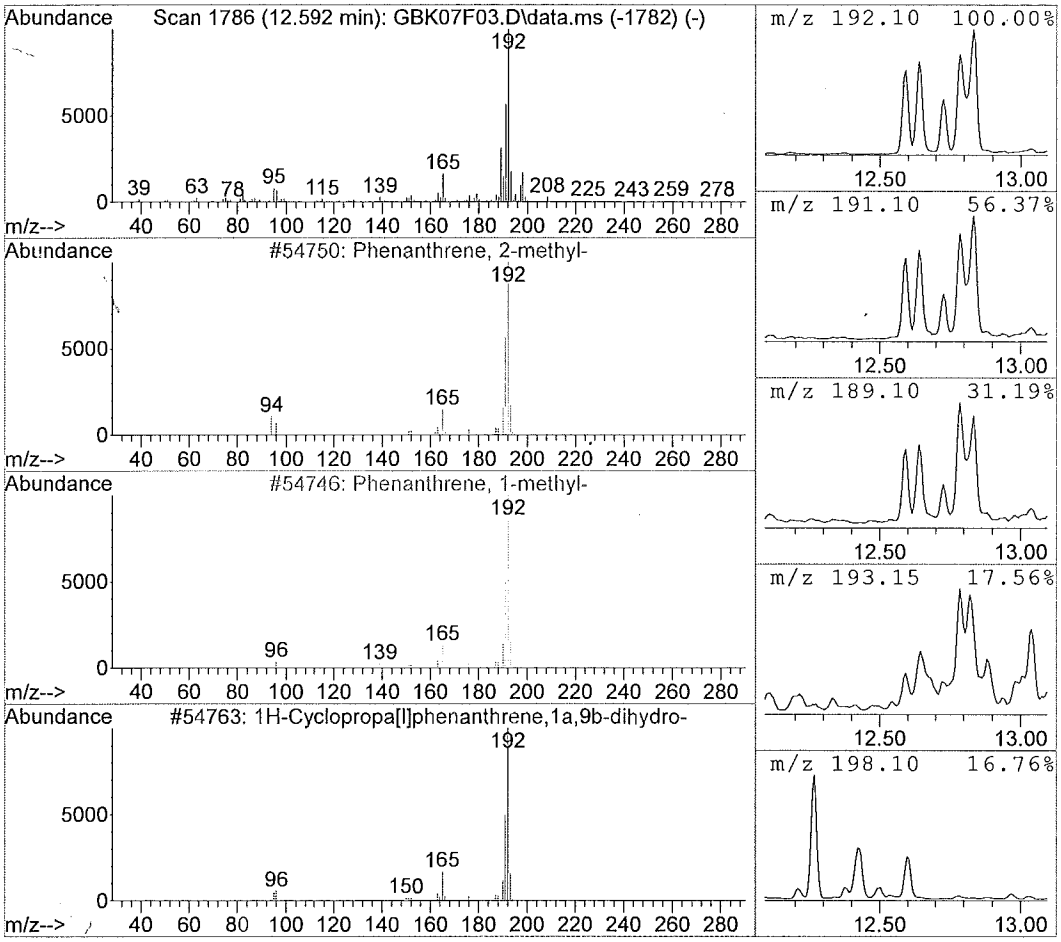


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.59	4.95 ug/ml	671720	Phenanthrene-d10	2712831

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenanthrene, 2-methyl-	54750	002531-84-2	97.00
2	Phenanthrene, 1-methyl-	54746	000832-69-9	97.00
3	1H-Cyclopropa[l]phenanthrene,1a,9b-	54763	000949-41-7	96.00
4	Anthracene, 2-methyl-	54735	000613-12-7	96.00
5	Anthracene, 1-methyl-	54741	000610-48-0	93.00



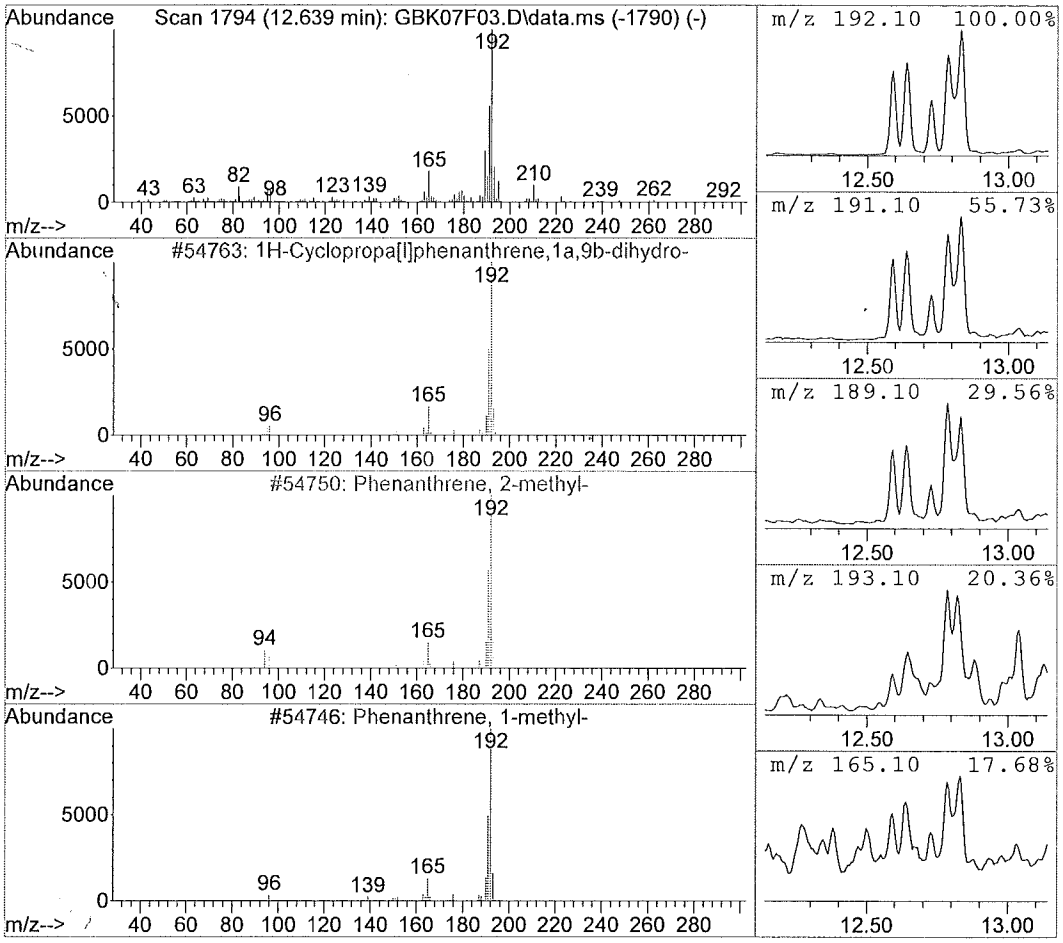
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.64	10.35 ug/ml	1404477	Phenanthrene-d10	2712831

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,9b-	54763	000949-41-7	98.00
2	Phenanthrene, 2-methyl-	54750	002531-84-2	97.00
3	Phenanthrene, 1-methyl-	54746	000832-69-9	97.00
4	Anthracene, 2-methyl-	54735	000613-12-7	96.00
5	Phenanthrene, 4-methyl-	54745	000832-64-4	95.00

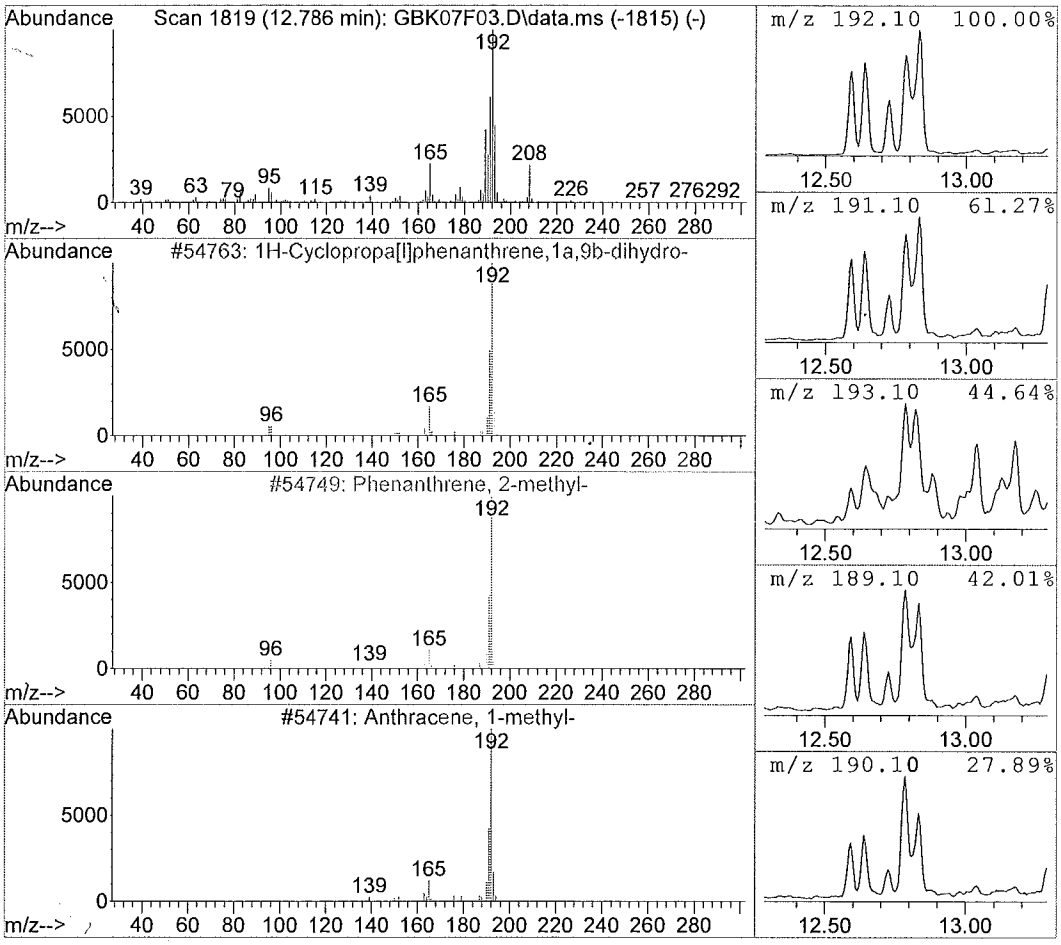


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.79	7.61 ug/ml	1032361	Phenanthrene-d10	2712831

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,9b-	54763	000949-41-7	90.00
2	Phenanthrene, 2-methyl-	54749	002531-84-2	60.00
3	Anthracene, 1-methyl-	54741	000610-48-0	55.00
4	Phenanthrene, 4-methyl-	54751	000832-64-4	55.00
5	Phenanthrene, 1-methyl-	54752	000832-69-9	55.00

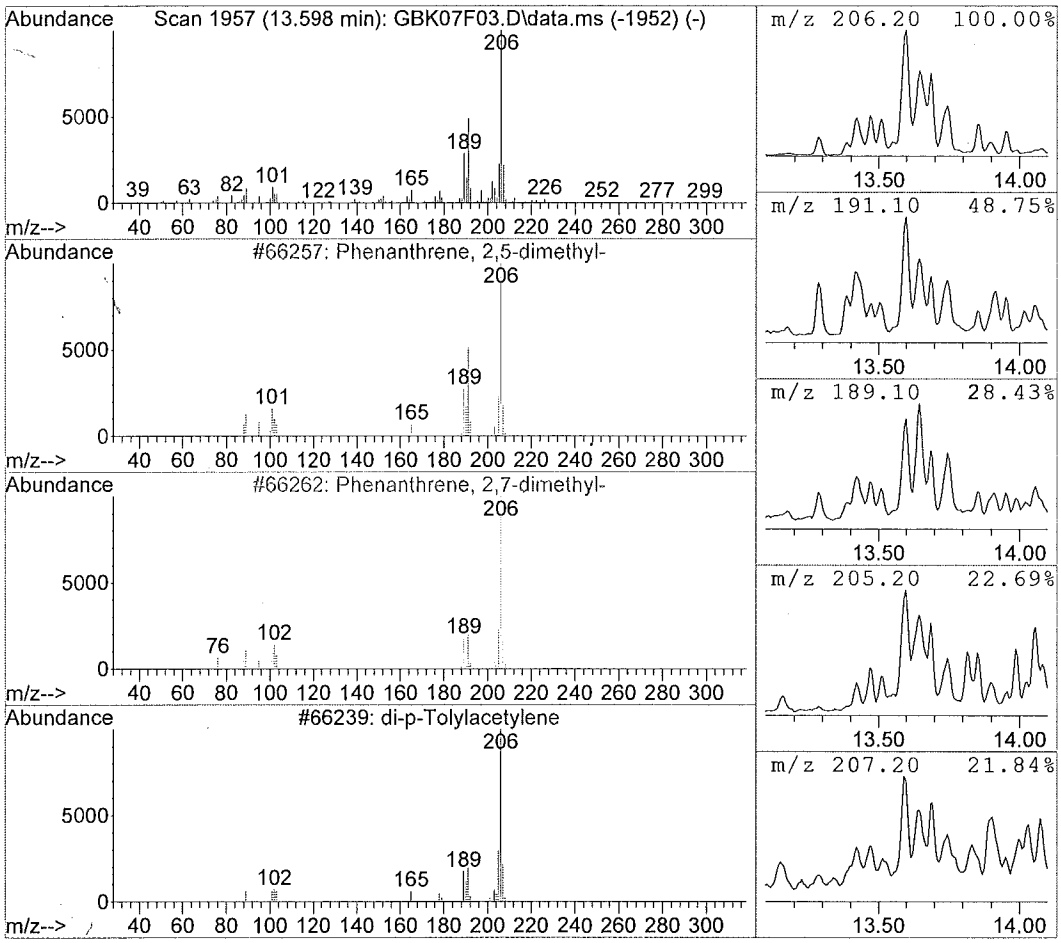


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.60	10.37 ug/ml	1406460	Phenanthrene-d10	2712831

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	66257	003674-66-6	97.00
2	Phenanthrene, 2,7-dimethyl-	66262	001576-69-8	94.00
3	di-p-Tolylacetylene	66239	002789-88-0	93.00
4	Anthracene, 1,4-dimethyl-	66250	000781-92-0	93.00
5	Phenanthrene, 2,3-dimethyl-	66256	003674-65-5	93.00



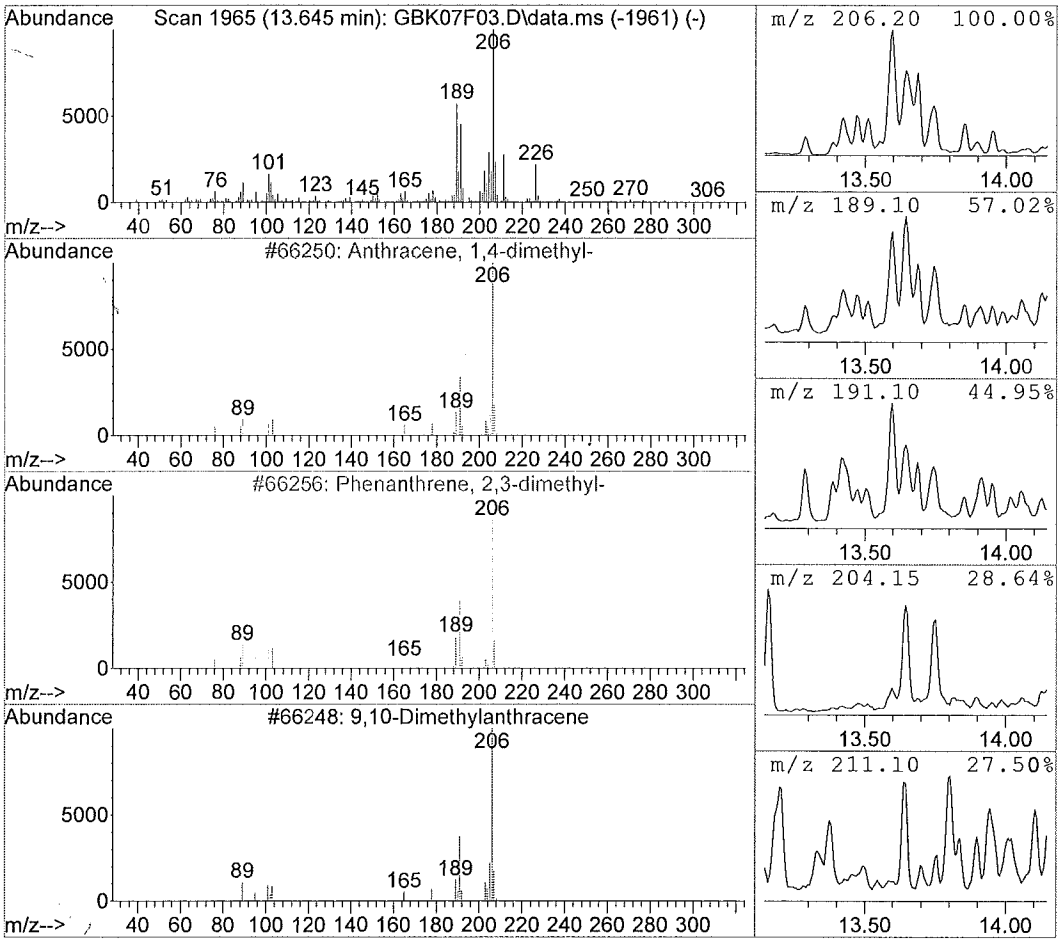
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.64	10.15 ug/ml	1376632	Phenanthrene-d10	2712831

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Anthracene, 1,4-dimethyl-	66250	000781-92-0	83.00
2	Phenanthrene, 2,3-dimethyl-	66256	003674-65-5	60.00
3	9,10-Dimethylanthracene	66248	000781-43-1	60.00
4	Phenanthrene, 3,6-dimethyl-	66266	001576-67-6	58.00
5	di-p-Tolylacetylene	66238	002789-88-0	53.00

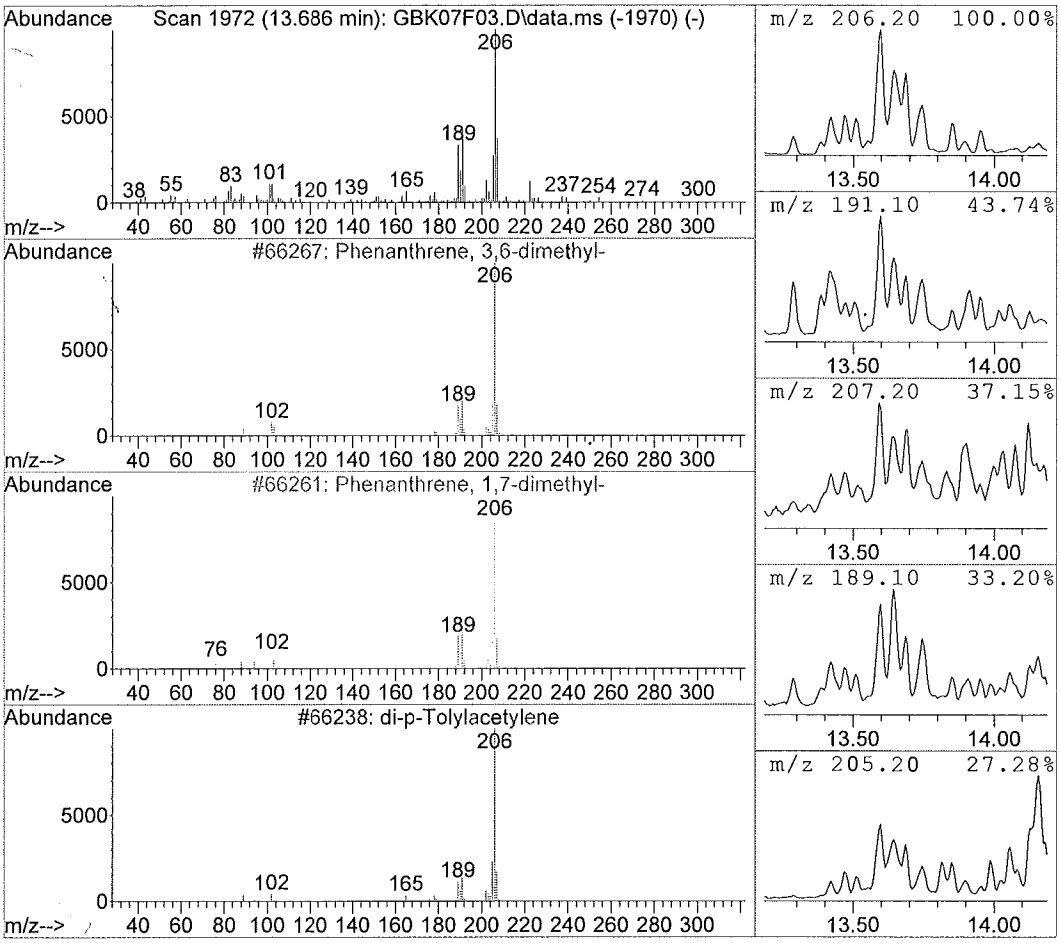


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.69	3.87 ug/ml	524836	Phenanthrene-d10	2712831

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	66267	001576-67-6	94.00
2	Phenanthrene, 1,7-dimethyl-	66261	000483-87-4	94.00
3	di-p-Tolylacetylene	66238	002789-88-0	93.00
4	Phenanthrene, 2,5-dimethyl-	66257	003674-66-6	91.00
5	Phenanthrene, 2,7-dimethyl-	66262	001576-69-8	81.00



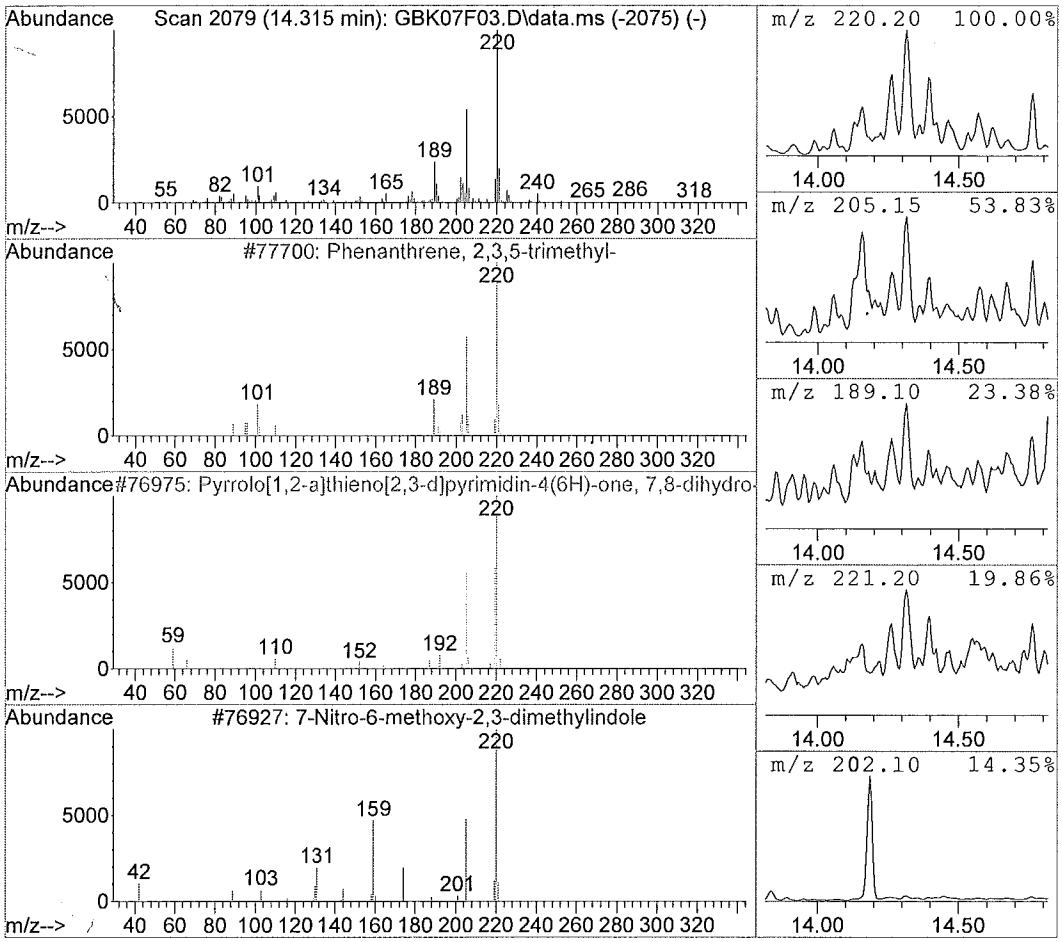
00353

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.32	4.71 ug/ml	942116	Chrysene-d12	3998454

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenanthrene, 2,3,5-trimethyl-	77700	003674-73-5	91.00
2	Pyrrolo[1,2-a]thieno[2,3-d]pyrimidi	76975	056929-61-4	52.00
3	7-Nitro-6-methoxy-2,3-dimethylindol	76927	068289-71-4	52.00
4	Phenmethylcynide, .alpha.,.alpha.-d	76952	1000128-94-6	50.00
5	6-Methoxy-4-nitroquinoline 1-oxide	76884	025015-35-4	43.00

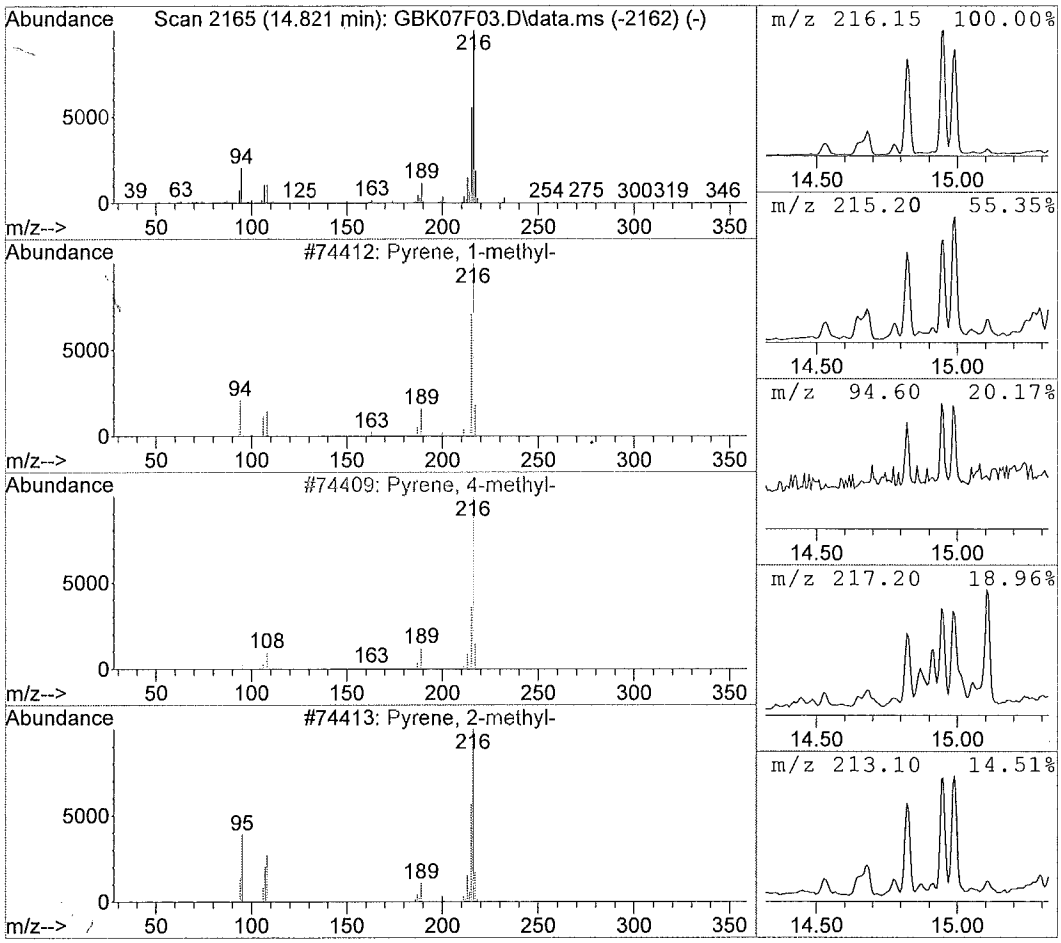


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.82	4.99 ug/ml	996919	Chrysene-d12	3998454

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pyrene, 1-methyl-	74412	002381-21-7	98.00
2	Pyrene, 4-methyl-	74409	003353-12-6	95.00
3	Pyrene, 2-methyl-	74413	003442-78-2	94.00
4	11H-Benzo[a]fluorene	74419	000238-84-6	93.00
5	Fluoranthene, 2-methyl-	74425	033543-31-6	90.00

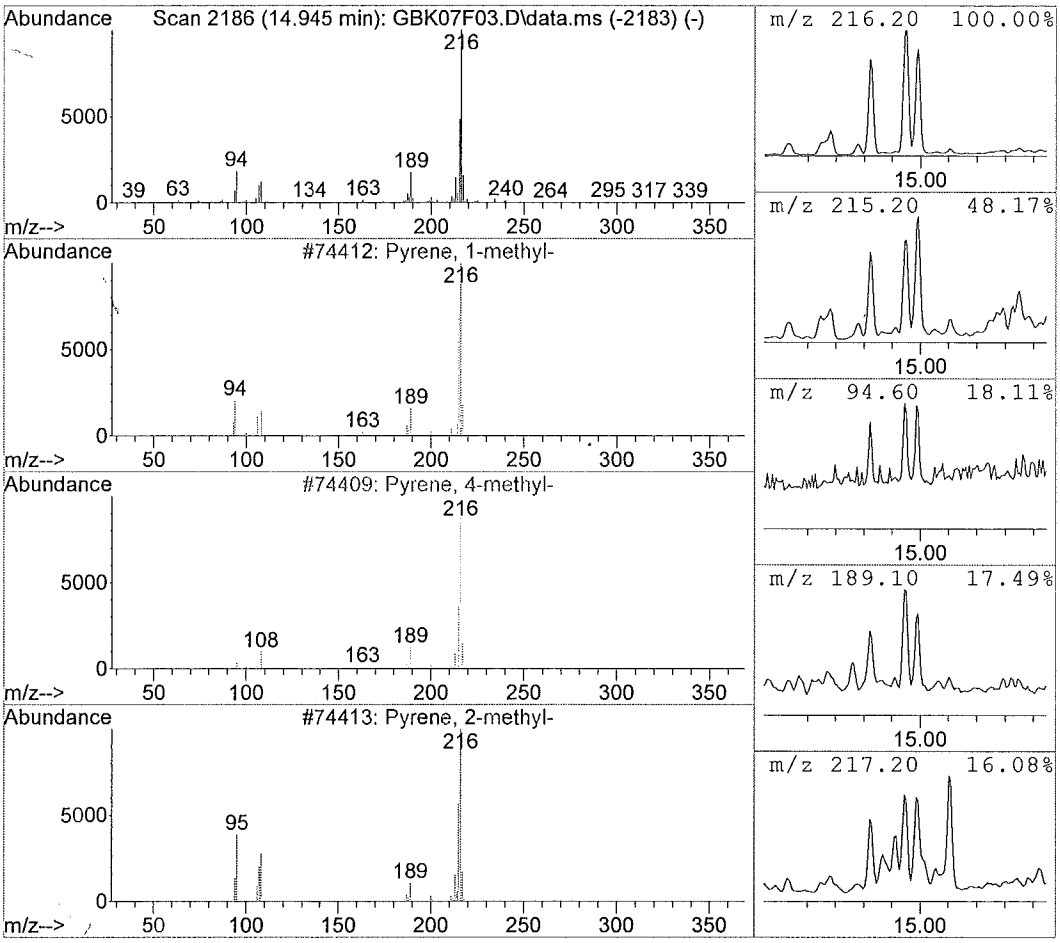


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.94	7.19 ug/ml	1437625	Chrysene-d12	3998454

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pyrene, 1-methyl-	74412	002381-21-7	98.00
2	Pyrene, 4-methyl-	74409	003353-12-6	95.00
3	Pyrene, 2-methyl-	74413	003442-78-2	93.00
4	11H-Benzo[a]fluorene	74419	000238-84-6	90.00
5	11H-Benzo[b]fluorene	74418	000243-17-4	80.00



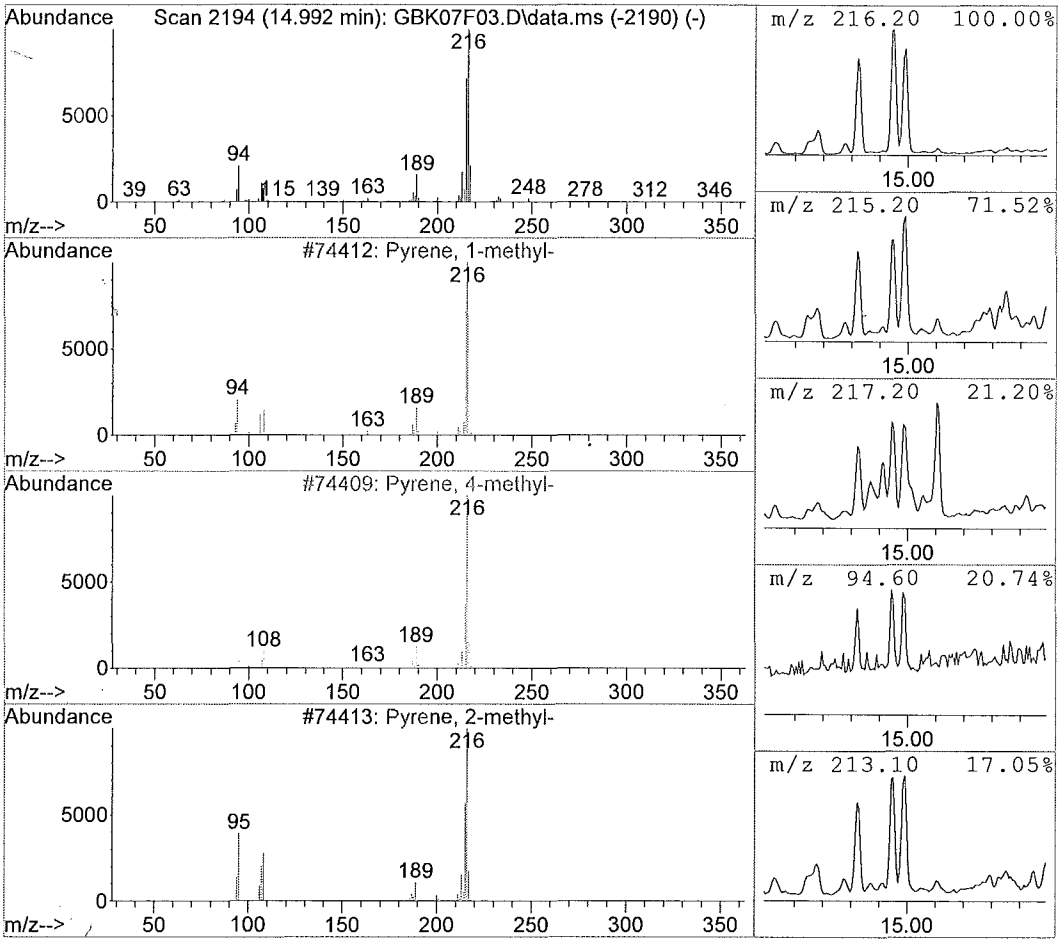
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.99	6.89 ug/ml	1378101	Chrysene-d12	3998454

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pyrene, 1-methyl-	74412	002381-21-7	98.00
2	Pyrene, 4-methyl-	74409	003353-12-6	95.00
3	Pyrene, 2-methyl-	74413	003442-78-2	93.00
4	11H-Benzo[b]fluorene	74418	000243-17-4	91.00
5	Fluoranthene, 2-methyl-	74424	033543-31-6	90.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M24

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542004

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GBK08F04

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 30.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	5900	U
108-95-2	Phenol	5900	U
111-44-4	Bis(2-chloroethyl)ether	5900	U
95-57-8	2-Chlorophenol	5900	U
95-48-7	2-Methylphenol	5900	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5900	U
98-86-2	Acetophenone	5900	U
106-44-5	4-Methylphenol	5900	U
621-64-7	N-Nitroso-di-n-propylamine	5900	U
67-72-1	Hexachloroethane	5900	U
98-95-3	Nitrobenzene	5900	U
78-59-1	Isophorone	5900	U
88-75-5	2-Nitrophenol	5900	U
105-67-9	2,4-Dimethylphenol	5900	U
111-91-1	Bis(2-chloroethoxy)methane	5900	U
120-83-2	2,4-Dichlorophenol	5900	U
91-20-3	Naphthalene	5900	U
106-47-8	4-Chloroaniline	5900	U
87-68-3	Hexachlorobutadiene	5900	U
105-60-2	Caprolactam	5900	U
59-50-7	4-Chloro-3-methylphenol	5900	U
91-57-6	2-Methylnaphthalene	5900	U
77-47-4	Hexachlorocyclopentadiene	5900	U
88-06-2	2,4,6-Trichlorophenol	5900	U
95-95-4	2,4,5-Trichlorophenol	5900	U
92-52-4	1,1'-Biphenyl	5900	U
91-58-7	2-Chloronaphthalene	5900	U
88-74-4	2-Nitroaniline	12000	U
131-11-3	Dimethylphthalate	5900	U
606-20-2	2,6-Dinitrotoluene	5900	U
208-96-8	Acenaphthylene	5900	U
99-09-2	3-Nitroaniline	12000	U
83-32-9	Acenaphthene	5900	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M24

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542004

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GBK08F04

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 30.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	12000	U
100-02-7	4-Nitrophenol	12000	U
132-64-9	Dibenzofuran	5900	U
121-14-2	2,4-Dinitrotoluene	5900	U
84-66-2	Diethylphthalate	5900	U
86-73-7	Fluorene	5900	U
7005-72-3	4-Chlorophenyl-phenylether	5900	U
100-01-6	4-Nitroaniline	12000	U
534-52-1	4,6-Dinitro-2-methylphenol	12000	U
86-30-6	N-Nitrosodiphenylamine[1]	5900	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5900	U
101-55-3	4-Bromophenyl-phenylether	5900	U
118-74-1	Hexachlorobenzene	5900	U
1912-24-9	Atrazine	5900	U
87-86-5	Pentachlorophenol	12000	U
85-01-8	Phenanthrene	5900	U
120-12-7	Anthracene	5900	U
86-74-8	Carbazole	5900	U
84-74-2	Di-n-butylphthalate	5900	U
206-44-0	Fluoranthene	5900	U
129-00-0	Pyrene	1500	J
85-68-7	Butylbenzylphthalate	5900	U
91-94-1	3,3'-Dichlorobenzidine	5900	U
56-55-3	Benzo(a)anthracene	5900	U
218-01-9	Chrysene	5900	U
117-81-7	Bis(2-ethylhexyl)phthalate	5900	U
117-84-0	Di-n-octylphthalate	5900	U
205-99-2	Benzo(b)fluoranthene	5900	U
207-08-9	Benzo(k)fluoranthene	5900	U
50-32-8	Benzo(a)pyrene	5900	U
193-39-5	Indeno(1,2,3-cd)pyrene	5900	U
53-70-3	Dibenzo(a,h)anthracene	5900	U
191-24-2	Benzo(g,h,i)perylene	5900	U
58-90-2	2,3,4,6-Tetrachlorophenol	5900	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M24

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542004
Sample wt/vol: 30.1 (g/mL) g Lab File ID: GBK08F04
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015
GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 30.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.56	10000	JB
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[2]	Total Alkanes	N/A		

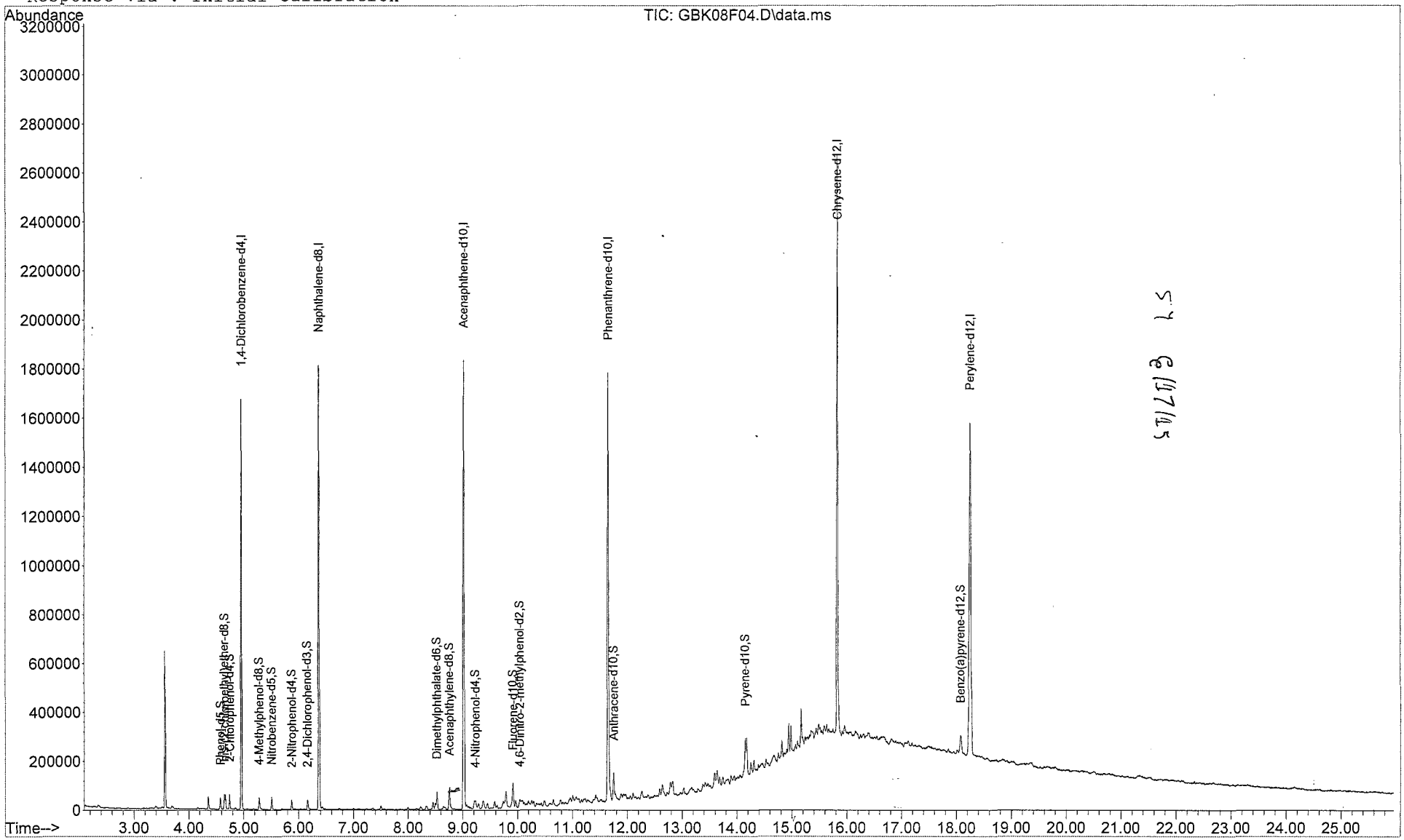
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK08F04.D Vial: 7
Acq On : 06/12/2015 19:57 Operator: DJC
Sample : 1515542004 F9M24 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 12 20:23:29 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK08F04.D Vial: 7
Acq On : 06/12/2015 19:57 Operator: DJC
Sample : 1515542004 F9M24 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 12 20:23:29 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	302481	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1128340	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	646522	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1057124	20.00 ug/ml
73) Chrysene-d12	15.83	240	1042236	20.00 ug/ml
81) Perylene-d12	18.26	264	1066375	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	20046	0.950ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	11574	0.896ug/mL
7) 2-Chlorophenol-d4	4.74	132	21877	1.056ug/ml
13) 4-Methylphenol-d8	5.28	113	16019	0.975ug/mL
17) Nitrobenzene-d5	5.51	128	9420	0.995ug/ml
21) 2-Nitrophenol-d4	5.87	143	10431	0.989ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	14934	0.966ug/mL
28) 4-Chloroaniline-d4	6.43	131	4756	0.284ug/mL
42) Dimethylphthalate-d6	8.53	166	45290	1.152ug/mL
45) Acenaphthylene-d8	8.76	160	57171	1.090ug/mL
50) 4-Nitrophenol-d4	9.23	143	4329	0.517ug/mL
57) Fluorene-d10	9.92	176	40717	1.192ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	3171	0.457ug/mL
69) Anthracene-d10	11.75	188	68282	1.277ug/mL
75) Pyrene-d10	14.15	212	57023	1.203ug/mL
86) Benzo(a)pyrene-d12	18.08	264	56705	1.172ug/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

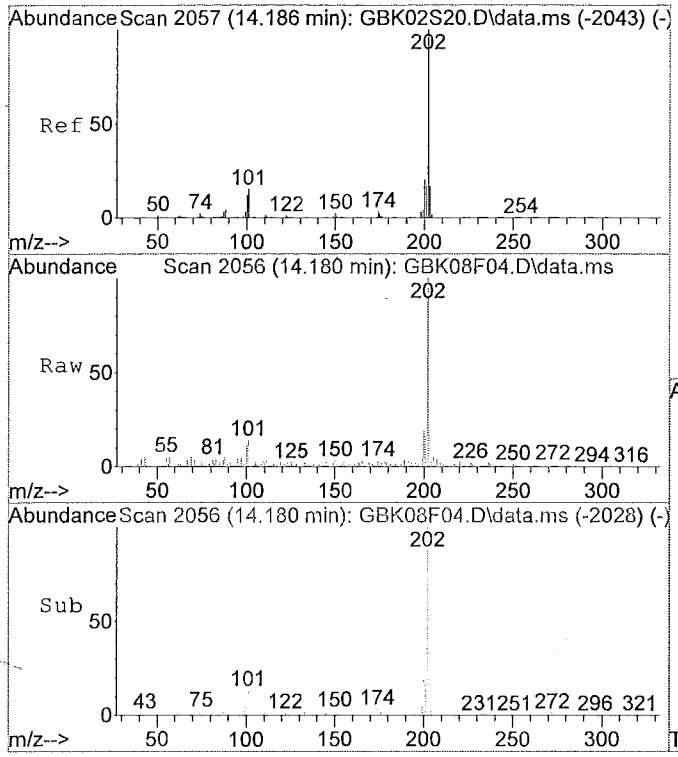
Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK08F04.D Vial: 7
Acq On : 06/12/2015 19:57 Operator: DJC
Sample : 1515542004 F9M24 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 12 20:23:29 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 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	14.18	202	81982	1.270ug/ml	96
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)

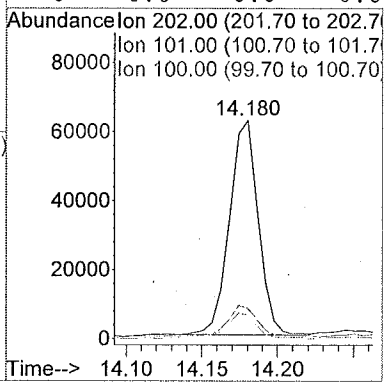
00369



#74
Pyrene
Concen: 1.27 ug/ml
RT: 14.18 min Scan# 2056
Delta R.T. -0.01 min
Lab File: GBK08F04.D
Acq: 06/12/2015 19:57

Tgt Ion:202 Resp: 81982

Ion	Ratio	Lower	Upper
202	100		
101	15.5	12.2	22.7
100	13.4	10.1	18.7
0	0.0	0.0	0.0



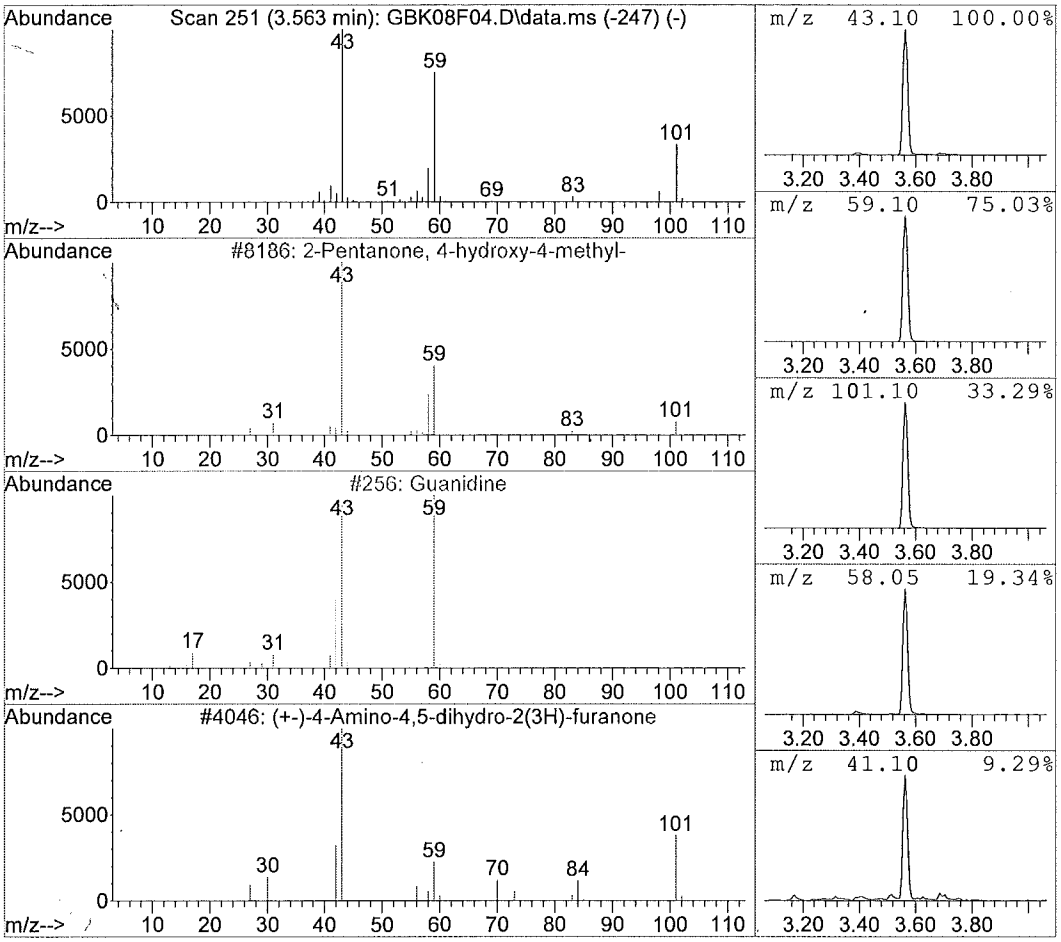
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK08F04.D Vial: 7
Acq On : 06/12/2015 19:57 Operator: DJC
Sample : 1515542004 F9M24 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.56	8.70 ug/ml	726280	1,4-Dichlorobenzene-d4	1670536

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	47.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Morpholine, 4-methyl-	4084	000109-02-4	9.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M25

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542005

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GBK09F05

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 20.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	4400	U
108-95-2	Phenol	4400	U
111-44-4	Bis(2-chloroethyl)ether	4400	U
95-57-8	2-Chlorophenol	4400	U
95-48-7	2-Methylphenol	4400	U
108-60-1	2,2'-Oxybis(1-chloropropane)	4400	U
98-86-2	Acetophenone	4400	U
106-44-5	4-Methylphenol	4400	U
621-64-7	N-Nitroso-di-n-propylamine	4400	U
67-72-1	Hexachloroethane	4400	U
98-95-3	Nitrobenzene	4400	U
78-59-1	Isophorone	4400	U
88-75-5	2-Nitrophenol	4400	U
105-67-9	2,4-Dimethylphenol	4400	U
111-91-1	Bis(2-chloroethoxy)methane	4400	U
120-83-2	2,4-Dichlorophenol	4400	U
91-20-3	Naphthalene	4400	U
106-47-8	4-Chloroaniline	4400	U
87-68-3	Hexachlorobutadiene	4400	U
105-60-2	Caprolactam	4400	U
59-50-7	4-Chloro-3-methylphenol	4400	U
91-57-6	2-Methylnaphthalene	4400	U
77-47-4	Hexachlorocyclopentadiene	4400	U
88-06-2	2,4,6-Trichlorophenol	4400	U
95-95-4	2,4,5-Trichlorophenol	4400	U
92-52-4	1,1'-Biphenyl	4400	U
91-58-7	2-Chloronaphthalene	4400	U
88-74-4	2-Nitroaniline	8500	U
131-11-3	Dimethylphthalate	4400	U
606-20-2	2,6-Dinitrotoluene	4400	U
208-96-8	Acenaphthylene	4400	U
99-09-2	3-Nitroaniline	8500	U
83-32-9	Acenaphthene	4400	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M25

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542005

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GBK09F05

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 20.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	8500	U
100-02-7	4-Nitrophenol	8500	U
132-64-9	Dibenzofuran	4400	U
121-14-2	2,4-Dinitrotoluene	4400	U
84-66-2	Diethylphthalate	4400	U
86-73-7	Fluorene	4400	U
7005-72-3	4-Chlorophenyl-phenylether	4400	U
100-01-6	4-Nitroaniline	8500	U
534-52-1	4,6-Dinitro-2-methylphenol	8500	U
86-30-6	N-Nitrosodiphenylamine[1]	4400	U
95-94-3	1,2,4,5-Tetrachlorobenzene	4400	U
101-55-3	4-Bromophenyl-phenylether	4400	U
118-74-1	Hexachlorobenzene	4400	U
1912-24-9	Atrazine	4400	U
87-86-5	Pentachlorophenol	8500	U
85-01-8	Phenanthrene	4400	U
120-12-7	Anthracene	4400	U
86-74-8	Carbazole	4400	U
84-74-2	Di-n-butylphthalate	4400	U
206-44-0	Fluoranthene	4400	U
129-00-0	Pyrene	4400	U
85-68-7	Butylbenzylphthalate	4400	U
91-94-1	3,3'-Dichlorobenzidine	4400	U
56-55-3	Benzo(a)anthracene	4400	U
218-01-9	Chrysene	4400	U
117-81-7	Bis(2-ethylhexyl)phthalate	4400	U
117-84-0	Di-n-octylphthalate	4400	U
205-99-2	Benzo(b)fluoranthene	4400	U
207-08-9	Benzo(k)fluoranthene	4400	U
50-32-8	Benzo(a)pyrene	4400	U
193-39-5	Indeno(1,2,3-cd)pyrene	4400	U
53-70-3	Dibenzo(a,h)anthracene	4400	U
191-24-2	Benzo(g,h,i)perylene	4400	U
58-90-2	2,3,4,6-Tetrachlorophenol	4400	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M25

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542005
Sample wt/vol: 30.4 (g/mL) g Lab File ID: GBK09F05
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 24. Decanted: (Y/N) N Date Received: 06/03/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015
GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 20.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Guanidine	3.56	10000	J
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[2]	Total Alkanes	N/A		

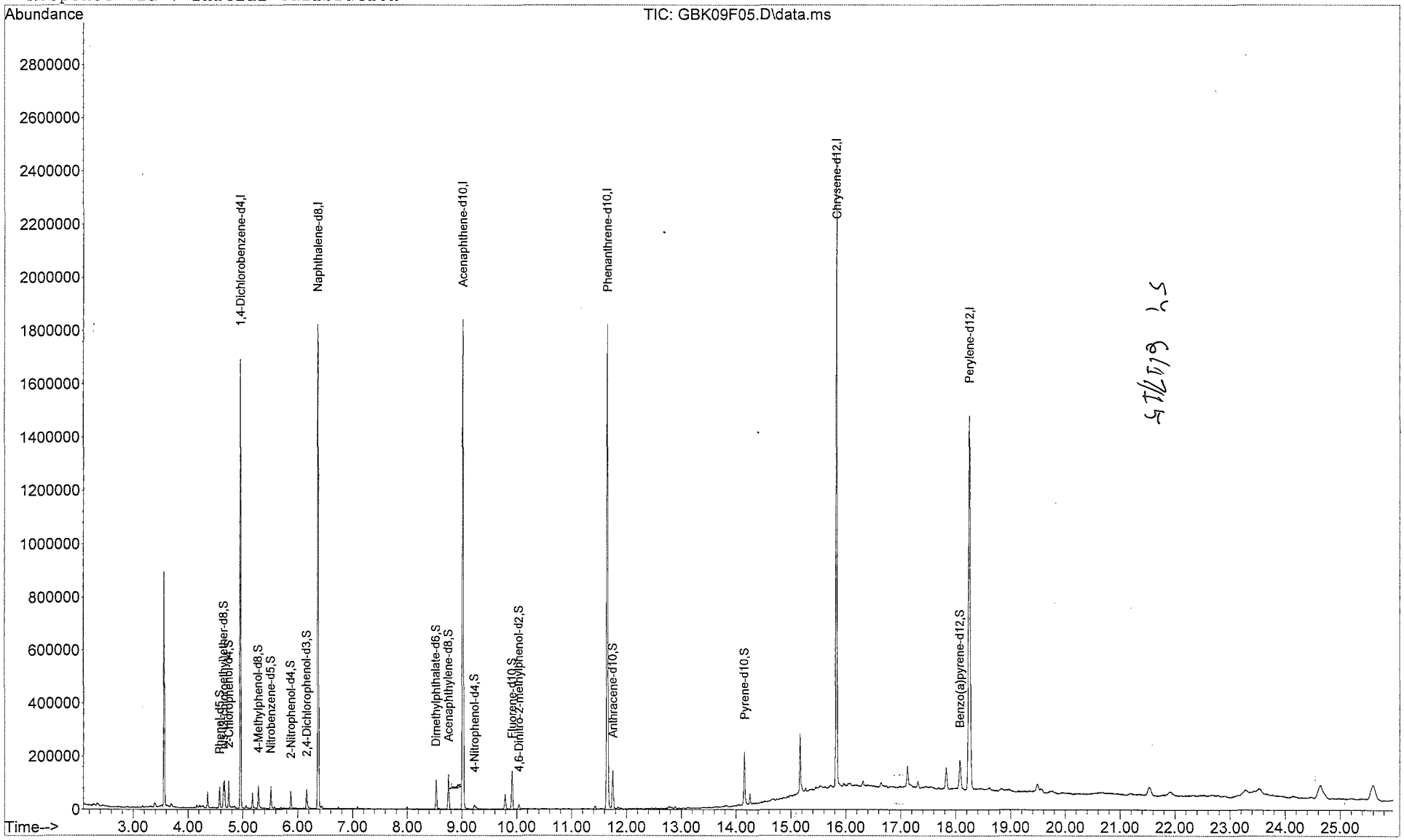
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK09F05.D Vial: 8
Acq On : 06/12/2015 20:29 Operator: DJC
Sample : 1515542005 F9M25 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 12 20:56:01 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK09F05.D Vial: 8
Acq On : 06/12/2015 20:29 Operator: DJC
Sample : 1515542005 F9M25 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 12 20:56:01 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	302958	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1122801	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	646889	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1082439	20.00 ug/ml
73) Chrysene-d12	15.83	240	1052695	20.00 ug/ml
81) Perylene-d12	18.25	264	1037174	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	33533	1.587ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	19200	1.484ug/mL
7) 2-Chlorophenol-d4	4.74	132	36023	1.737ug/ml
13) 4-Methylphenol-d8	5.28	113	26875	1.634ug/mL
17) Nitrobenzene-d5	5.51	128	16106	1.710ug/ml
21) 2-Nitrophenol-d4	5.87	143	17719	1.688ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	25051	1.629ug/mL
28) 4-Chloroaniline-d4	6.44	131	4541	0.272ug/mL
42) Dimethylphthalate-d6	8.53	166	72330	1.839ug/mL
45) Acenaphthylene-d8	8.75	160	91317	1.739ug/mL
50) 4-Nitrophenol-d4	9.23	143	10389	1.240ug/mL
57) Fluorene-d10	9.92	176	60589	1.773ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	5253	0.739ug/mL
69) Anthracene-d10	11.75	188	98343	1.796ug/mL
75) Pyrene-d10	14.15	212	84276	1.761ug/mL
86) Benzo(a)pyrene-d12	18.07	264	78591	1.671ug/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)

: 00378

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK09F05.D Vial: 8
Acq On : 06/12/2015 20:29 Operator: DJC
Sample : 1515542005 F9M25 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 12 20:56:01 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 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)

00371

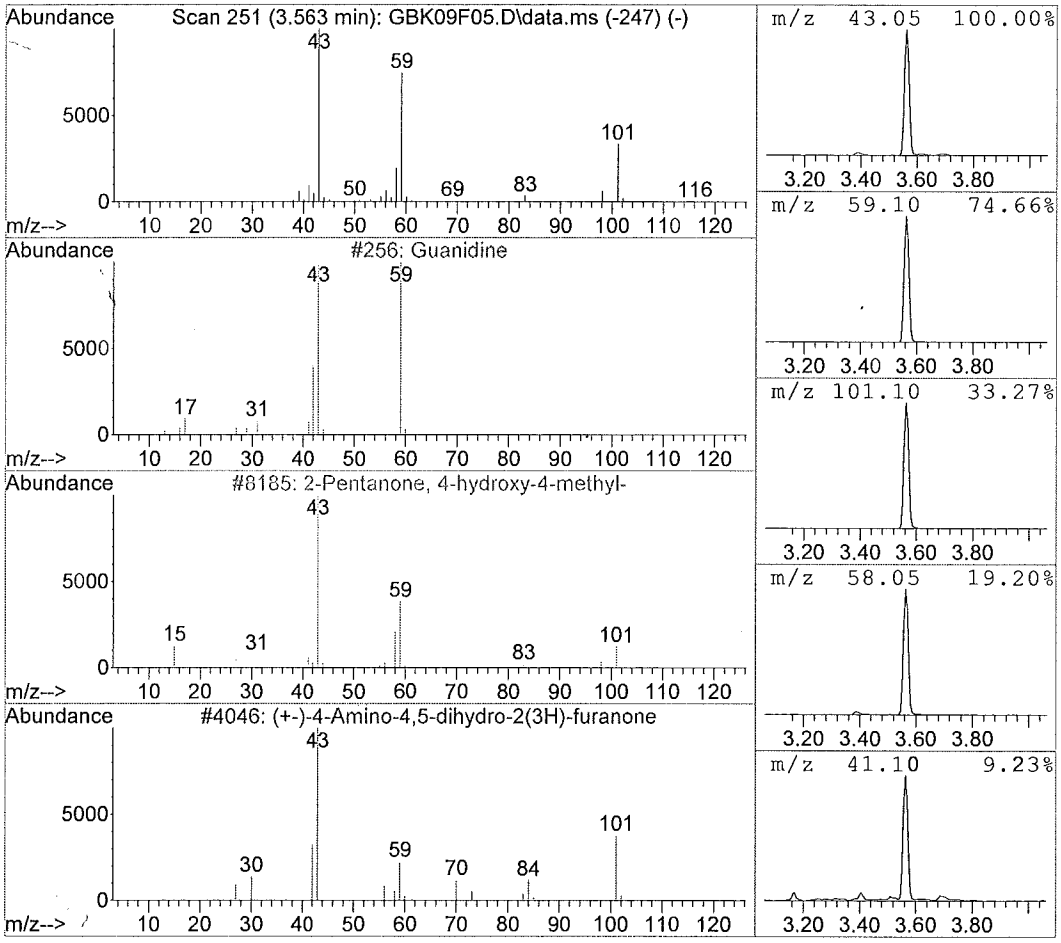
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK09F05.D Vial: 8
Acq On : 06/12/2015 20:29 Operator: DJC
Sample : 1515542005 F9M25 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.56	12.07 ug/ml	1018651	1,4-Dichlorobenzene-d4	1687311

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Guanidine	256	000113-00-8	47.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	32.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Butane, 1-ethoxy-	4425	000628-81-9	9.00



: 00372

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M26

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542006

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GBK10F06

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 20.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	4000	U
108-95-2	Phenol	4000	U
111-44-4	Bis(2-chloroethyl)ether	4000	U
95-57-8	2-Chlorophenol	4000	U
95-48-7	2-Methylphenol	4000	U
108-60-1	2,2'-Oxybis(1-chloropropane)	4000	U
98-86-2	Acetophenone	4000	U
106-44-5	4-Methylphenol	4000	U
621-64-7	N-Nitroso-di-n-propylamine	4000	U
67-72-1	Hexachloroethane	4000	U
98-95-3	Nitrobenzene	4000	U
78-59-1	Isophorone	4000	U
88-75-5	2-Nitrophenol	4000	U
105-67-9	2,4-Dimethylphenol	4000	U
111-91-1	Bis(2-chloroethoxy)methane	4000	U
120-83-2	2,4-Dichlorophenol	4000	U
91-20-3	Naphthalene	4000	U
106-47-8	4-Chloroaniline	4000	U
87-68-3	Hexachlorobutadiene	4000	U
105-60-2	Caprolactam	4000	U
59-50-7	4-Chloro-3-methylphenol	4000	U
91-57-6	2-Methylnaphthalene	4000	U
77-47-4	Hexachlorocyclopentadiene	4000	U
88-06-2	2,4,6-Trichlorophenol	4000	U
95-95-4	2,4,5-Trichlorophenol	4000	U
92-52-4	1,1'-Biphenyl	4000	U
91-58-7	2-Chloronaphthalene	4000	U
88-74-4	2-Nitroaniline	7800	U
131-11-3	Dimethylphthalate	4000	U
606-20-2	2,6-Dinitrotoluene	4000	U
208-96-8	Acenaphthylene	4000	U
99-09-2	3-Nitroaniline	7800	U
83-32-9	Acenaphthene	4000	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M26

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542006

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GBK10F06

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 20.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	7800	U
100-02-7	4-Nitrophenol	7800	U
132-64-9	Dibenzofuran	4000	U
121-14-2	2,4-Dinitrotoluene	4000	U
84-66-2	Diethylphthalate	4000	U
86-73-7	Fluorene	4000	U
7005-72-3	4-Chlorophenyl-phenylether	4000	U
100-01-6	4-Nitroaniline	7800	U
534-52-1	4,6-Dinitro-2-methylphenol	7800	U
86-30-6	N-Nitrosodiphenylamine[1]	4000	U
95-94-3	1,2,4,5-Tetrachlorobenzene	4000	U
101-55-3	4-Bromophenyl-phenylether	4000	U
118-74-1	Hexachlorobenzene	4000	U
1912-24-9	Atrazine	4000	U
87-86-5	Pentachlorophenol	7800	U
85-01-8	Phenanthrene	4000	U
120-12-7	Anthracene	4000	U
86-74-8	Carbazole	4000	U
84-74-2	Di-n-butylphthalate	4000	U
206-44-0	Fluoranthene	4000	U
129-00-0	Pyrene	4000	U
85-68-7	Butylbenzylphthalate	4000	U
91-94-1	3,3'-Dichlorobenzidine	4000	U
56-55-3	Benzo(a)anthracene	4000	U
218-01-9	Chrysene	4000	U
117-81-7	Bis(2-ethylhexyl)phthalate	4000	U
117-84-0	Di-n-octylphthalate	4000	U
205-99-2	Benzo(b)fluoranthene	4000	U
207-08-9	Benzo(k)fluoranthene	4000	U
50-32-8	Benzo(a)pyrene	4000	U
193-39-5	Indeno(1,2,3-cd)pyrene	4000	U
53-70-3	Dibenzo(a,h)anthracene	4000	U
191-24-2	Benzo(g,h,i)perylene	4000	U
58-90-2	2,3,4,6-Tetrachlorophenol	4000	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9M26

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542006

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GBK10F06

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 20.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Guanidine	3.56	12000	J
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[2]	Total Alkanes	N/A		

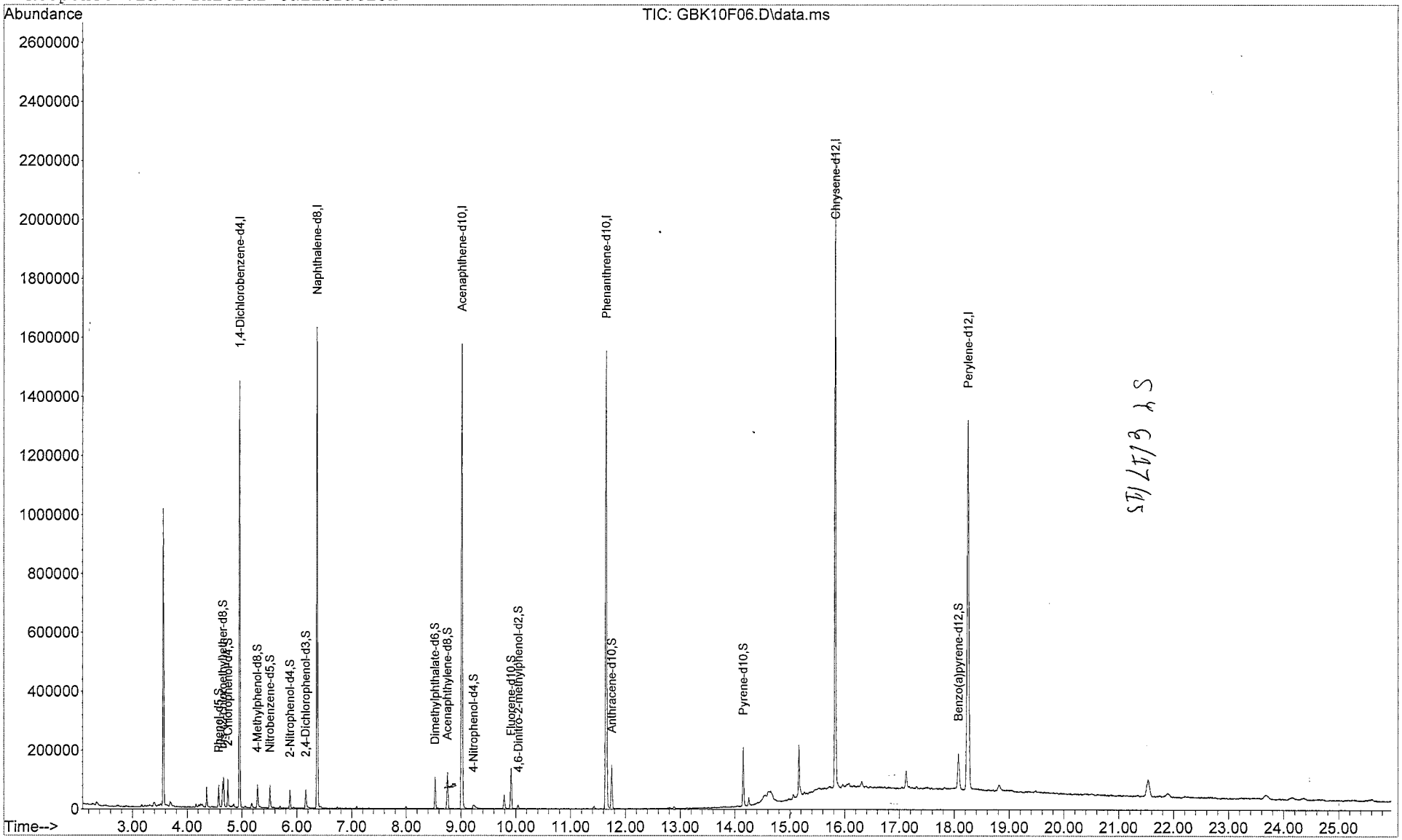
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK10F06.D Vial: 9
Acq On : 06/12/2015 21:02 Operator: DJC
Sample : 1515542006 F9M26 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 12 21:28:27 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK10F06.D Vial: 9
Acq On : 06/12/2015 21:02 Operator: DJC
Sample : 1515542006 F9M26 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 12 21:28:27 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	265194	20.00 ug/ml
16) Naphthalene-d8	6.37	136	984617	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	568103	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	935257	20.00 ug/ml
73) Chrysene-d12	15.83	240	957845	20.00 ug/ml
81) Perylene-d12	18.25	264	933485	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	31339	1.695ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	18236	1.610ug/mL
7) 2-Chlorophenol-d4	4.74	132	32871	1.810ug/ml
13) 4-Methylphenol-d8	5.28	113	24673	1.714ug/mL
17) Nitrobenzene-d5	5.51	128	15549	1.882ug/ml
21) 2-Nitrophenol-d4	5.87	143	16761	1.821ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	22847	1.694ug/mL
28) 4-Chloroaniline-d4	6.44	131	2990	0.204ug/mL
42) Dimethylphthalate-d6	8.53	166	70826	2.050ug/mL
45) Acenaphthylene-d8	8.75	160	86219	1.870ug/mL
50) 4-Nitrophenol-d4	9.23	143	11243	1.528ug/mL
57) Fluorene-d10	9.92	176	59271	1.975ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	4278	0.696ug/mL
69) Anthracene-d10	11.75	188	97196	2.054ug/mL
75) Pyrene-d10	14.15	212	86709	1.991ug/mL
86) Benzo(a)pyrene-d12	18.07	264	83292	1.967ug/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)

00377

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK10F06.D Vial: 9
Acq On : 06/12/2015 21:02 Operator: DJC
Sample : 1515542006 F9M26 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 12 21:28:27 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 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)

00378

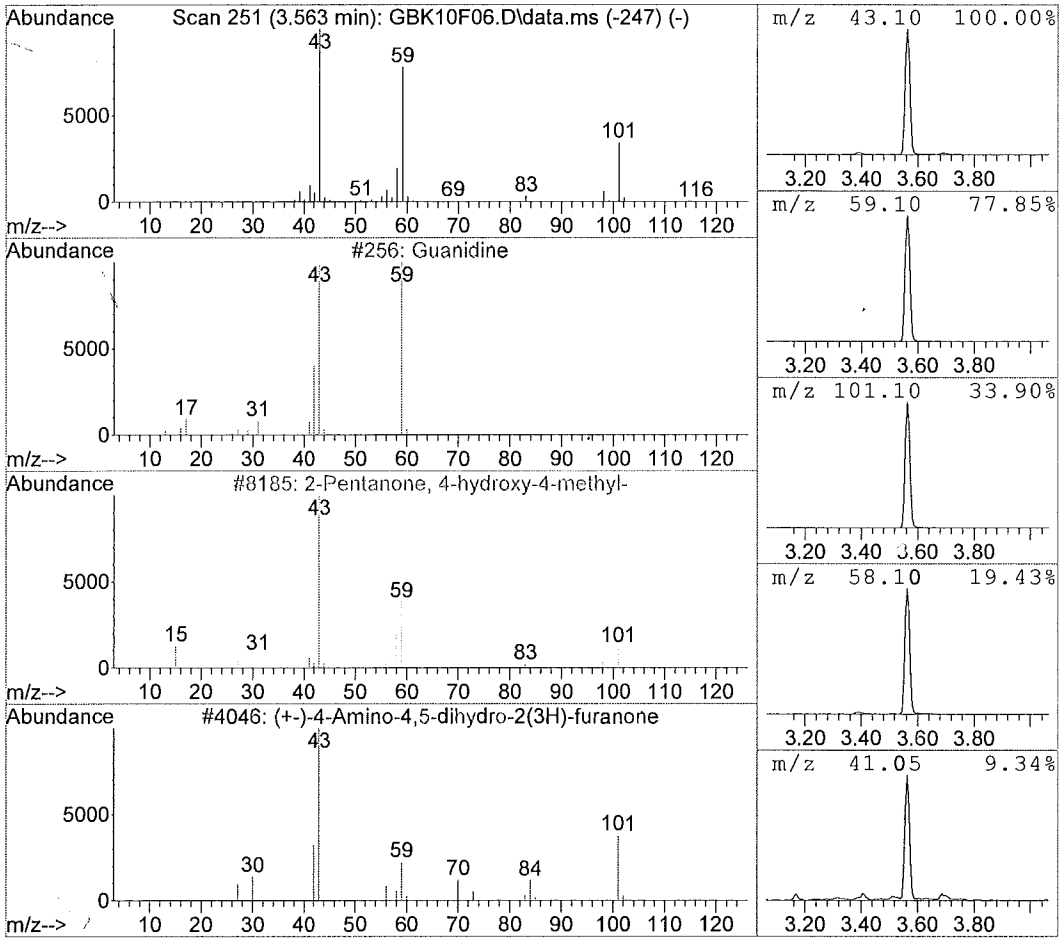
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK10F06.D Vial: 9
Acq On : 06/12/2015 21:02 Operator: DJC
Sample : 1515542006 F9M26 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.56	15.68 ug/ml	1150715	1,4-Dichlorobenzene-d4	1467307

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Guanidine	256	000113-00-8	47.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	32.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Morpholine, 4-methyl-	4076	000109-02-4	9.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M27

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542007

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBK11F07

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	1000	U
108-95-2	Phenol	1000	U
111-44-4	Bis(2-chloroethyl)ether	1000	U
95-57-8	2-Chlorophenol	1000	U
95-48-7	2-Methylphenol	1000	U
108-60-1	2,2'-Oxybis(1-chloropropane)	1000	U
98-86-2	Acetophenone	1000	U
106-44-5	4-Methylphenol	1000	U
621-64-7	N-Nitroso-di-n-propylamine	1000	U
67-72-1	Hexachloroethane	1000	U
98-95-3	Nitrobenzene	1000	U
78-59-1	Isophorone	1000	U
88-75-5	2-Nitrophenol	1000	U
105-67-9	2,4-Dimethylphenol	1000	U
111-91-1	Bis(2-chloroethoxy)methane	1000	U
120-83-2	2,4-Dichlorophenol	1000	U
91-20-3	Naphthalene	1000	U
106-47-8	4-Chloroaniline	1000	U
87-68-3	Hexachlorobutadiene	1000	U
105-60-2	Caprolactam	1000	U
59-50-7	4-Chloro-3-methylphenol	1000	U
91-57-6	2-Methylnaphthalene	1000	U
77-47-4	Hexachlorocyclopentadiene	1000	U
88-06-2	2,4,6-Trichlorophenol	1000	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	1000	U
91-58-7	2-Chloronaphthalene	1000	U
88-74-4	2-Nitroaniline	2000	U
131-11-3	Dimethylphthalate	1000	U
606-20-2	2,6-Dinitrotoluene	1000	U
208-96-8	Acenaphthylene	1000	U
99-09-2	3-Nitroaniline	2000	U
83-32-9	Acenaphthene	1000	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M27

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542007

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBK11F07

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	2000	U
100-02-7	4-Nitrophenol	2000	U
132-64-9	Dibenzofuran	1000	U
121-14-2	2,4-Dinitrotoluene	1000	U
84-66-2	Diethylphthalate	1000	U
86-73-7	Fluorene	1000	U
7005-72-3	4-Chlorophenyl-phenylether	1000	U
100-01-6	4-Nitroaniline	2000	U
534-52-1	4,6-Dinitro-2-methylphenol	2000	U
86-30-6	N-Nitrosodiphenylamine[1]	1000	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1000	U
101-55-3	4-Bromophenyl-phenylether	1000	U
118-74-1	Hexachlorobenzene	1000	U
1912-24-9	Atrazine	1000	U
87-86-5	Pentachlorophenol	2000	U
85-01-8	Phenanthrene	1000	U
120-12-7	Anthracene	1000	U
86-74-8	Carbazole	1000	U
84-74-2	Di-n-butylphthalate	1000	U
206-44-0	Fluoranthene	1000	U
129-00-0	Pyrene	1000	U
85-68-7	Butylbenzylphthalate	1000	U
91-94-1	3,3'-Dichlorobenzidine	1000	U
56-55-3	Benzo(a)anthracene	1000	U
218-01-9	Chrysene	1000	U
117-81-7	Bis(2-ethylhexyl)phthalate	1000	U
117-84-0	Di-n-octylphthalate	1000	U
205-99-2	Benzo(b)fluoranthene	1000	U
207-08-9	Benzo(k)fluoranthene	1000	U
50-32-8	Benzo(a)pyrene	1000	U
193-39-5	Indeno(1,2,3-cd)pyrene	1000	U
53-70-3	Dibenzo(a,h)anthracene	1000	U
191-24-2	Benzo(g,h,i)perylene	1000	U
58-90-2	2,3,4,6-Tetrachlorophenol	1000	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M27

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542007
Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBK11F07
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 19. Decanted: (Y/N) N Date Received: 06/03/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015
GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 5.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Guanidine	3.56	7600	J
02		Unknown 3-Hexene-2,5-dione	4.35	510	JB
03	301-02-0	9-Octadecenamide, (Z)-	15.16	1200	JNB
04		Unknown Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	21.53	550	J
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[2]	Total Alkanes	N/A	1000	J

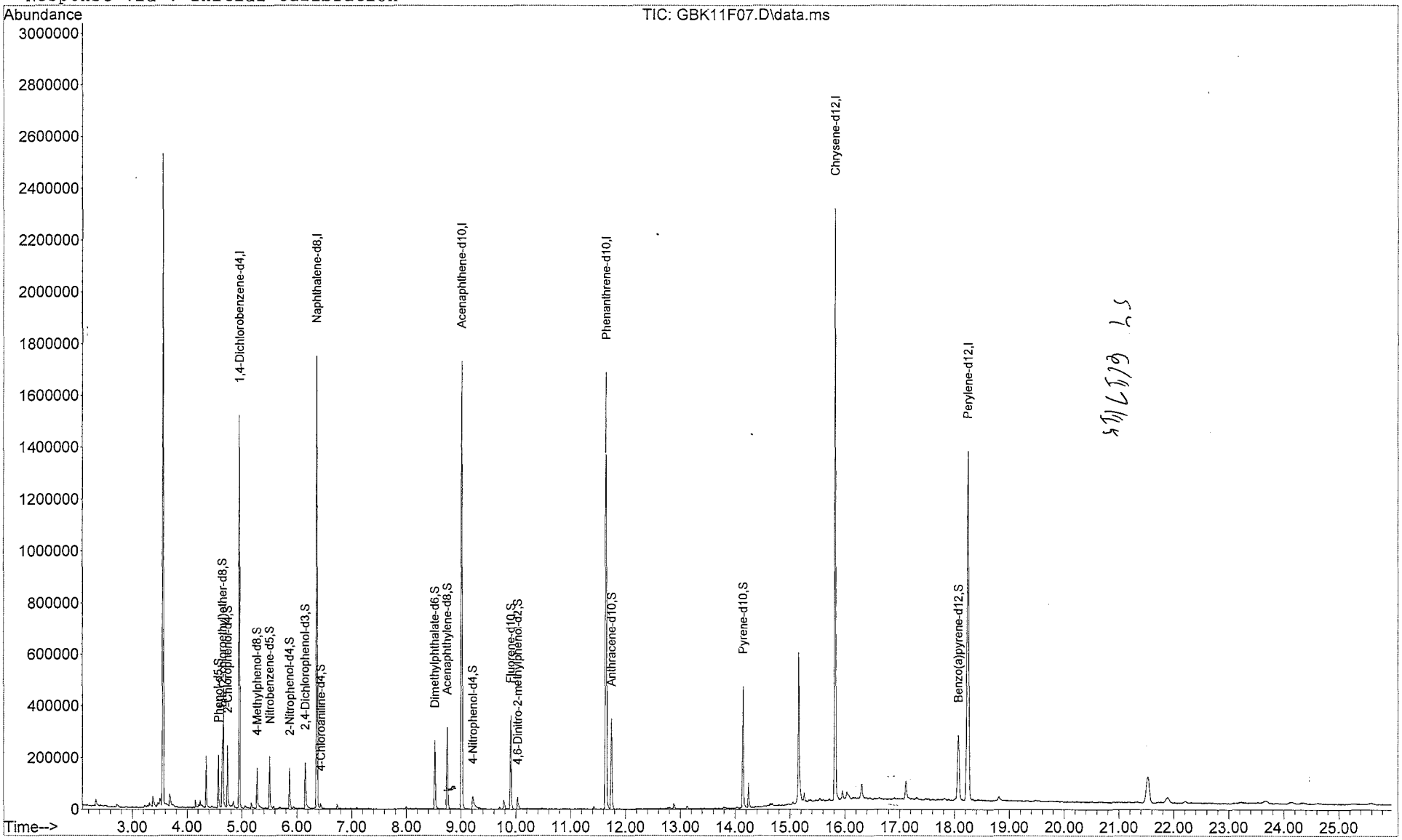
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK11F07.D Vial: 10
Acq On : 06/12/2015 21:34 Operator: DJC
Sample : 1515542007 F9M27 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 12 22:00:42 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK11F07.D Vial: 10
Acq On : 06/12/2015 21:34 Operator: DJC
Sample : 1515542007 F9M27 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 12 22:00:42 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	269376	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1044932	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	607753	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1025678	20.00 ug/ml
73) Chrysene-d12	15.83	240	1018605	20.00 ug/ml
81) Perylene-d12	18.25	264	1014561	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	80118	4.265ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	47307	4.113ug/mL
7) 2-Chlorophenol-d4	4.74	132	83010	4.501ug/ml
13) 4-Methylphenol-d8	5.28	113	46760	3.197ug/mL
17) Nitrobenzene-d5	5.51	128	39285	4.481ug/ml
21) 2-Nitrophenol-d4	5.87	143	44226	4.527ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	58865	4.113ug/mL
28) 4-Chloroaniline-d4	6.44	131	8980	0.578ug/mL
42) Dimethylphthalate-d6	8.53	166	174241	4.714ug/mL
45) Acenaphthylene-d8	8.75	160	218837	4.436ug/mL
50) 4-Nitrophenol-d4	9.22	143	29639	3.766ug/mL
57) Fluorene-d10	9.92	176	149650	4.661ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	12857	1.908ug/mL
69) Anthracene-d10	11.75	188	222840	4.295ug/mL
75) Pyrene-d10	14.15	212	209947	4.534ug/mL
86) Benzo(a)pyrene-d12	18.07	264	188547	4.097ug/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)\12JUN15\GBK11F07.D Vial: 10
Acq On : 06/12/2015 21:34 Operator: DJC
Sample : 1515542007 F9M27 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 12 22:00:42 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 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)

00395

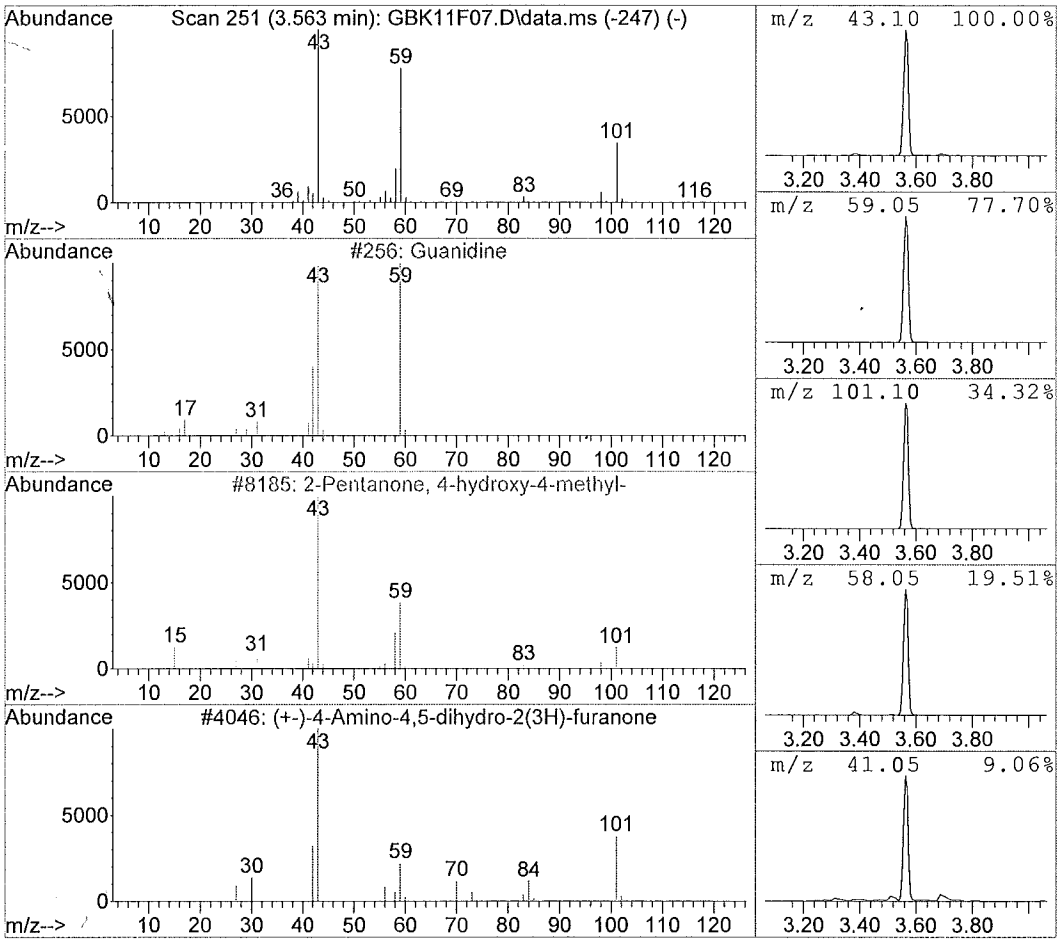
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK11F07.D Vial: 10
Acq On : 06/12/2015 21:34 Operator: DJC
Sample : 1515542007 F9M27 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.56	37.09 ug/ml	2796186	1,4-Dichlorobenzene-d4	1507962

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Guanidine	256	000113-00-8	47.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	32.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Butane, 1-ethoxy-	4425	000628-81-9	9.00

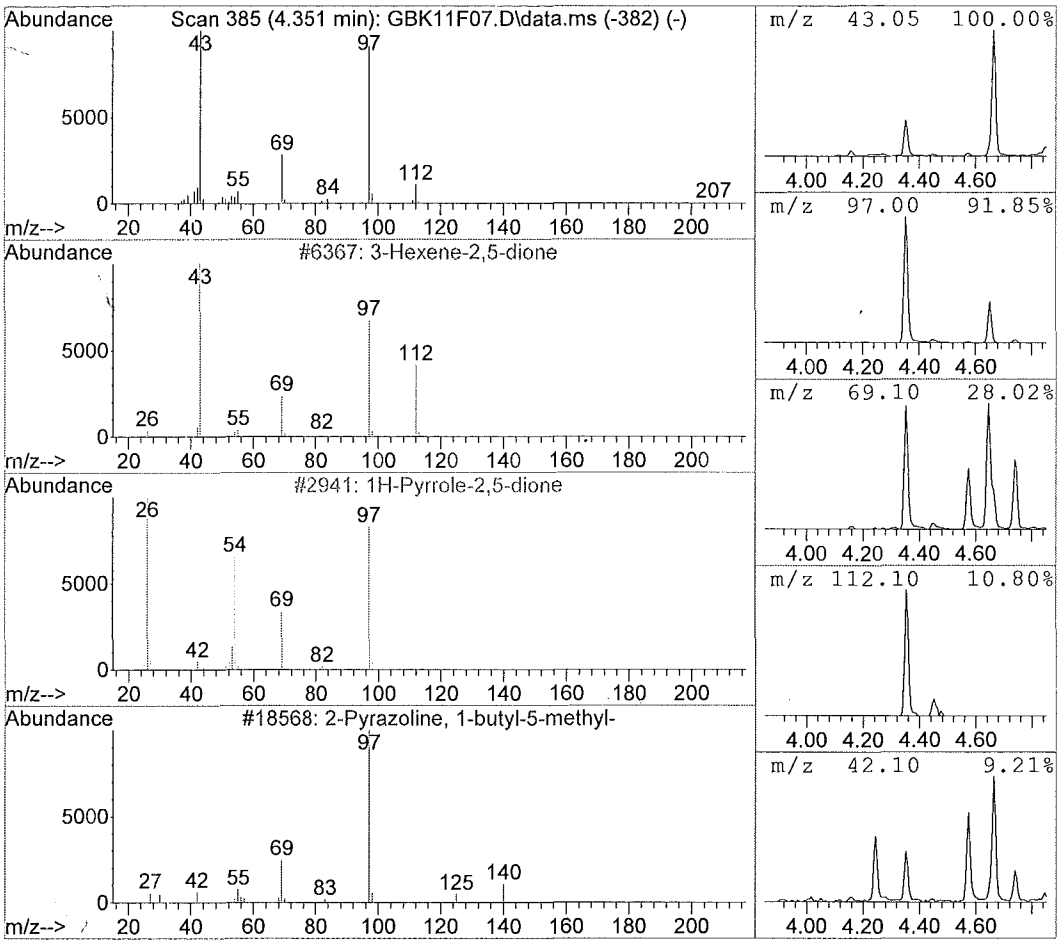


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK11F07.D Vial: 10
Acq On : 06/12/2015 21:34 Operator: DJC
Sample : 1515542007 F9M27 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.35	2.49 ug/ml	187756	1,4-Dichlorobenzene-d4	1507962

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene-2,5-dione	6367	004436-75-3	45.00
2	1H-Pyrrole-2,5-dione	2941	000541-59-3	40.00
3	2-Pyrazoline, 1-butyl-5-methyl-	18568	022581-50-6	38.00
4	Pyridine, 2,3,4,5-tetrahydro-6-prop	10922	001604-01-9	36.00
5	Sulfurous acid, butyl cyclohexylmet	88702	1000309-21-4	33.00



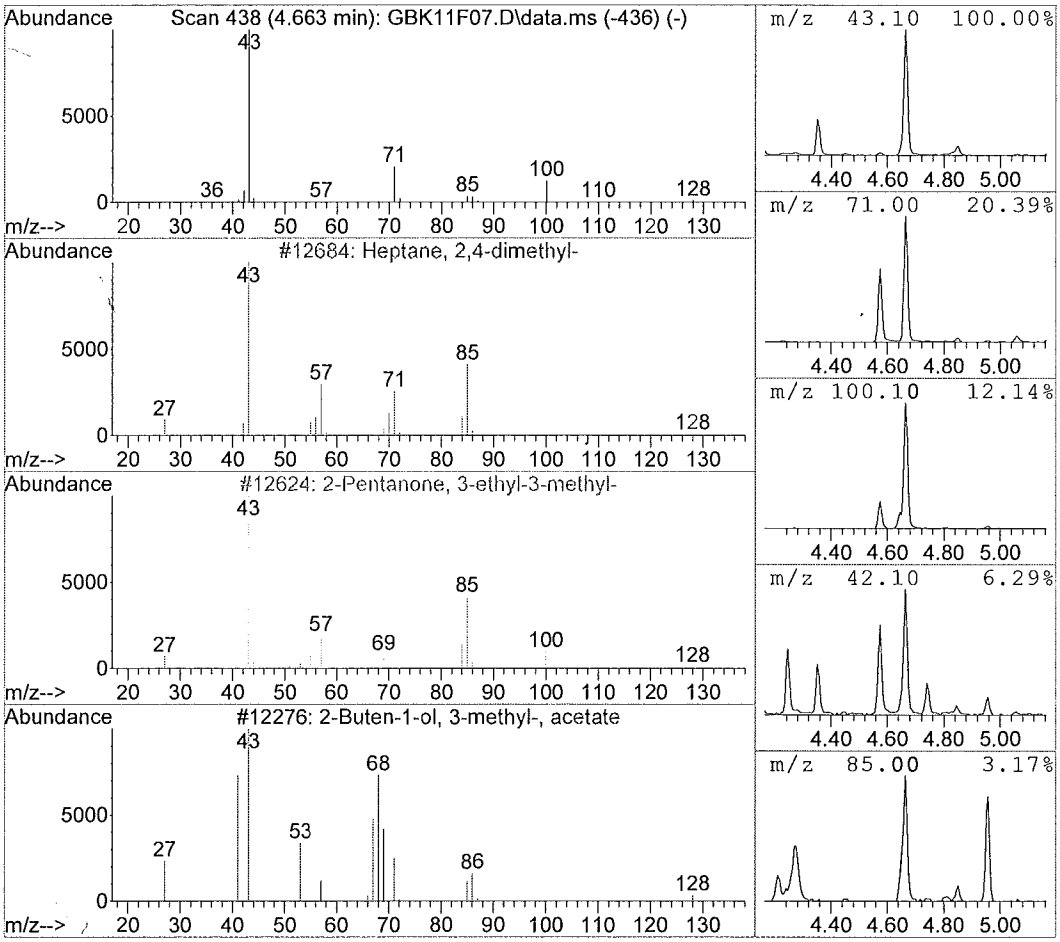
Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK11F07.D Vial: 10
Acq On : 06/12/2015 21:34 Operator: DJC
Sample : 1515542007 F9M27 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.66	4.87 ug/ml	367519	1,4-Dichlorobenzene-d4	1507962

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,4-dimethyl-	12684	002213-23-2	45.00
2	2-Pentanone, 3-ethyl-3-methyl-	12624	019780-65-5	9.00
3	2-Buten-1-ol, 3-methyl-, acetate	12276	001191-16-8	9.00
4	Pentane, 2-methyl-	1823	000107-83-5	9.00
5	Cyanic acid, ethyl ester	600	000627-48-5	9.00

BA

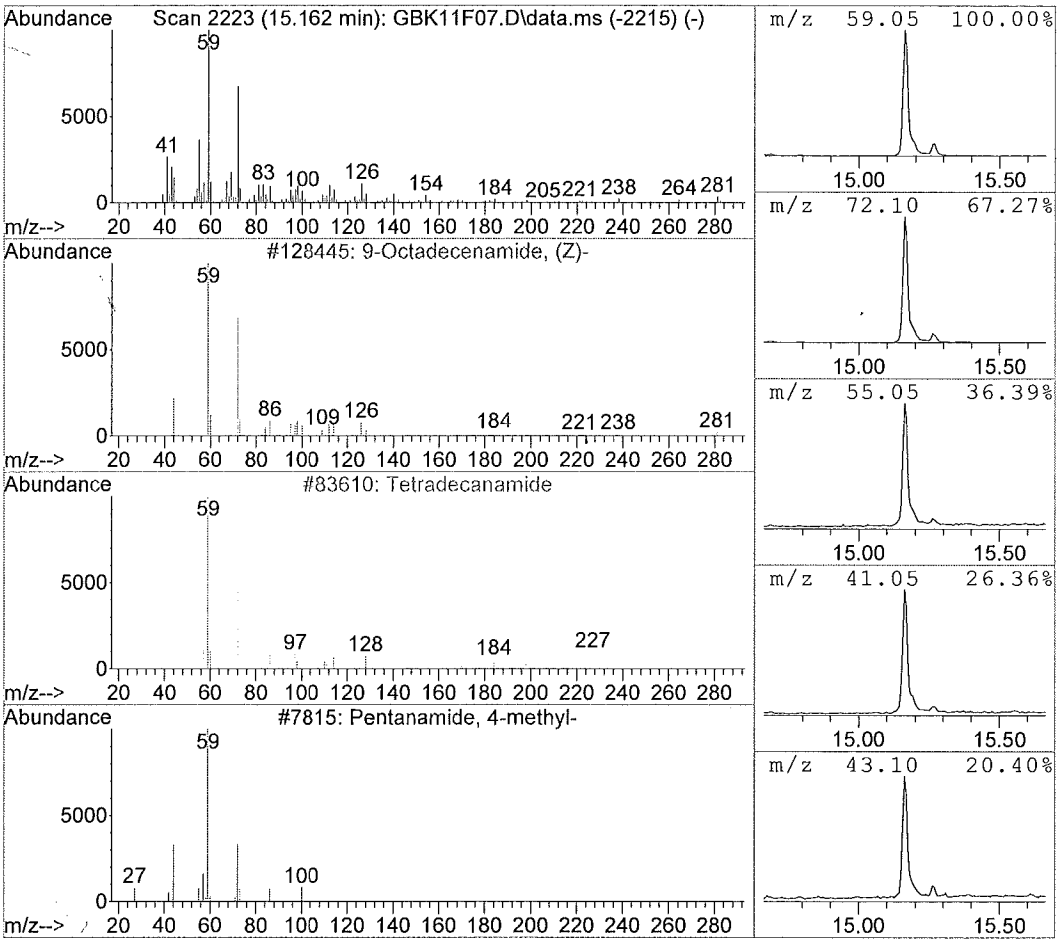


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK11F07.D Vial: 10
Acq On : 06/12/2015 21:34 Operator: DJC
Sample : 1515542007 F9M27 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.16	5.70 ug/ml	833416	Chrysene-d12	2923808

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Tetradecanamide	83610	000638-58-4	53.00
3	Pentanamide, 4-methyl-	7815	001119-29-5	53.00
4	Octadecanamide	130204	000124-26-5	53.00
5	Nonanamide	29478	001120-07-6	50.00

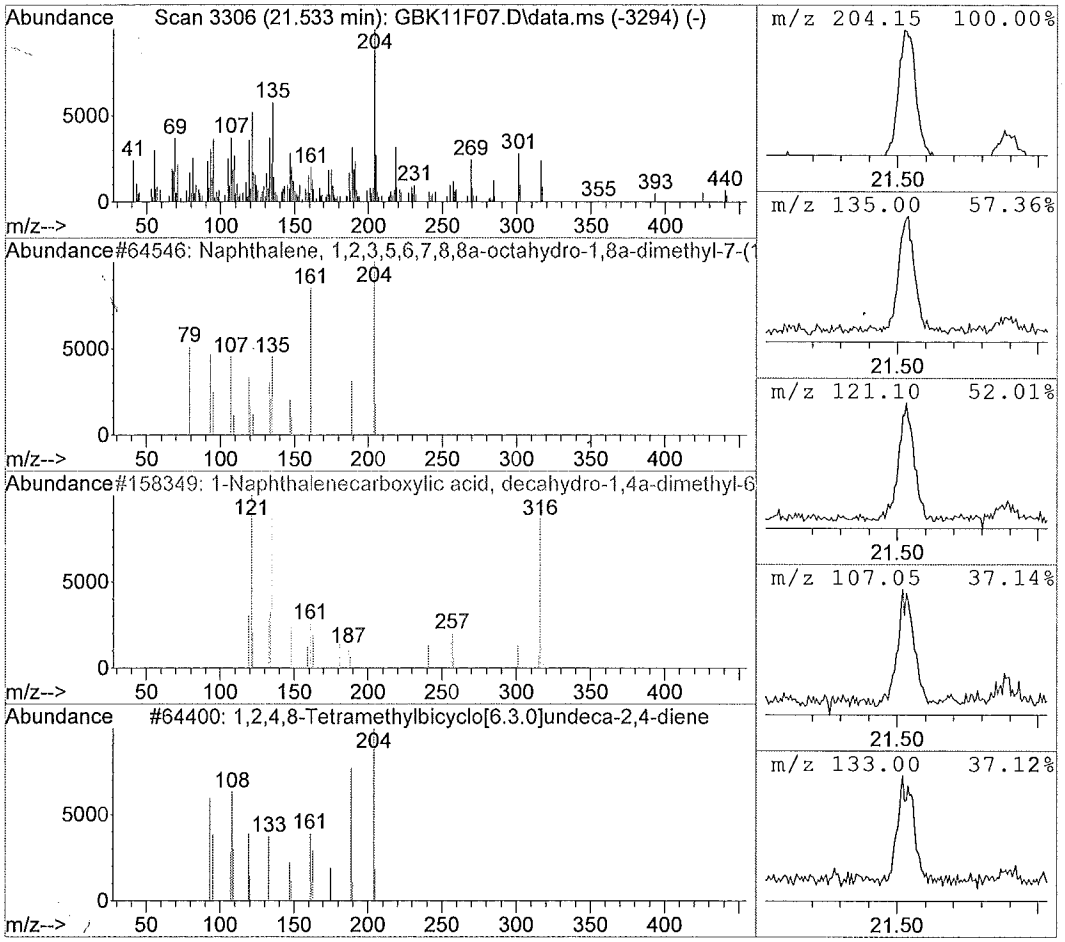


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK11F07.D Vial: 10
Acq On : 06/12/2015 21:34 Operator: DJC
Sample : 1515542007 F9M27 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.53	2.67 ug/ml	404555	Perylene-d12	3029593

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-Naphthalenecarboxylic acid, decah	158349	001235-39-8	45.00
3	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	30.00
4	Coumarin, 3,4-dihydro-4,4,6,8-tetra	64132	249629-60-5	30.00
5	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64574	000489-40-7	30.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M28

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542010

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GBK12F10

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	2100	U
108-95-2	Phenol	2100	U
111-44-4	Bis(2-chloroethyl)ether	2100	U
95-57-8	2-Chlorophenol	2100	U
95-48-7	2-Methylphenol	2100	U
108-60-1	2,2'-Oxybis(1-chloropropane)	2100	U
98-86-2	Acetophenone	2100	U
106-44-5	4-Methylphenol	2100	U
621-64-7	N-Nitroso-di-n-propylamine	2100	U
67-72-1	Hexachloroethane	2100	U
98-95-3	Nitrobenzene	2100	U
78-59-1	Isophorone	2100	U
88-75-5	2-Nitrophenol	2100	U
105-67-9	2,4-Dimethylphenol	2100	U
111-91-1	Bis(2-chloroethoxy)methane	2100	U
120-83-2	2,4-Dichlorophenol	2100	U
91-20-3	Naphthalene	2100	U
106-47-8	4-Chloroaniline	2100	U
87-68-3	Hexachlorobutadiene	2100	U
105-60-2	Caprolactam	2100	U
59-50-7	4-Chloro-3-methylphenol	2100	U
91-57-6	2-Methylnaphthalene	2100	U
77-47-4	Hexachlorocyclopentadiene	2100	U
88-06-2	2,4,6-Trichlorophenol	2100	U
95-95-4	2,4,5-Trichlorophenol	2100	U
92-52-4	1,1'-Biphenyl	2100	U
91-58-7	2-Chloronaphthalene	2100	U
88-74-4	2-Nitroaniline	4000	U
131-11-3	Dimethylphthalate	2100	U
606-20-2	2,6-Dinitrotoluene	2100	U
208-96-8	Acenaphthylene	2100	U
99-09-2	3-Nitroaniline	4000	U
83-32-9	Acenaphthene	2100	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M28

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542010

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GBK12F10

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	4000	U
100-02-7	4-Nitrophenol	4000	U
132-64-9	Dibenzofuran	2100	U
121-14-2	2,4-Dinitrotoluene	2100	U
84-66-2	Diethylphthalate	2100	U
86-73-7	Fluorene	2100	U
7005-72-3	4-Chlorophenyl-phenylether	2100	U
100-01-6	4-Nitroaniline	4000	U
534-52-1	4,6-Dinitro-2-methylphenol	4000	U
86-30-6	N-Nitrosodiphenylamine[1]	2100	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2100	U
101-55-3	4-Bromophenyl-phenylether	2100	U
118-74-1	Hexachlorobenzene	2100	U
1912-24-9	Atrazine	2100	U
87-86-5	Pentachlorophenol	4000	U
85-01-8	Phenanthrene	2100	U
120-12-7	Anthracene	2100	U
86-74-8	Carbazole	2100	U
84-74-2	Di-n-butylphthalate	2100	U
206-44-0	Fluoranthene	2100	U
129-00-0	Pyrene	2100	U
85-68-7	Butylbenzylphthalate	2100	U
91-94-1	3,3'-Dichlorobenzidine	2100	U
56-55-3	Benzo(a)anthracene	2100	U
218-01-9	Chrysene	2100	U
117-81-7	Bis(2-ethylhexyl)phthalate	2100	U
117-84-0	Di-n-octylphthalate	2100	U
205-99-2	Benzo(b)fluoranthene	2100	U
207-08-9	Benzo(k)fluoranthene	2100	U
50-32-8	Benzo(a)pyrene	2100	U
193-39-5	Indeno(1,2,3-cd)pyrene	2100	U
53-70-3	Dibenzo(a,h)anthracene	2100	U
191-24-2	Benzo(g,h,i)perylene	2100	U
58-90-2	2,3,4,6-Tetrachlorophenol	2100	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9M28

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542010

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GBK12F10

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 10.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.56	14000	JB
02	301-02-0	9-Octadecenamide, (Z)-	15.16	1700	JNB
03		Unknown Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	21.54	1100	J
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[2]	Total Alkanes	N/A	1000	J

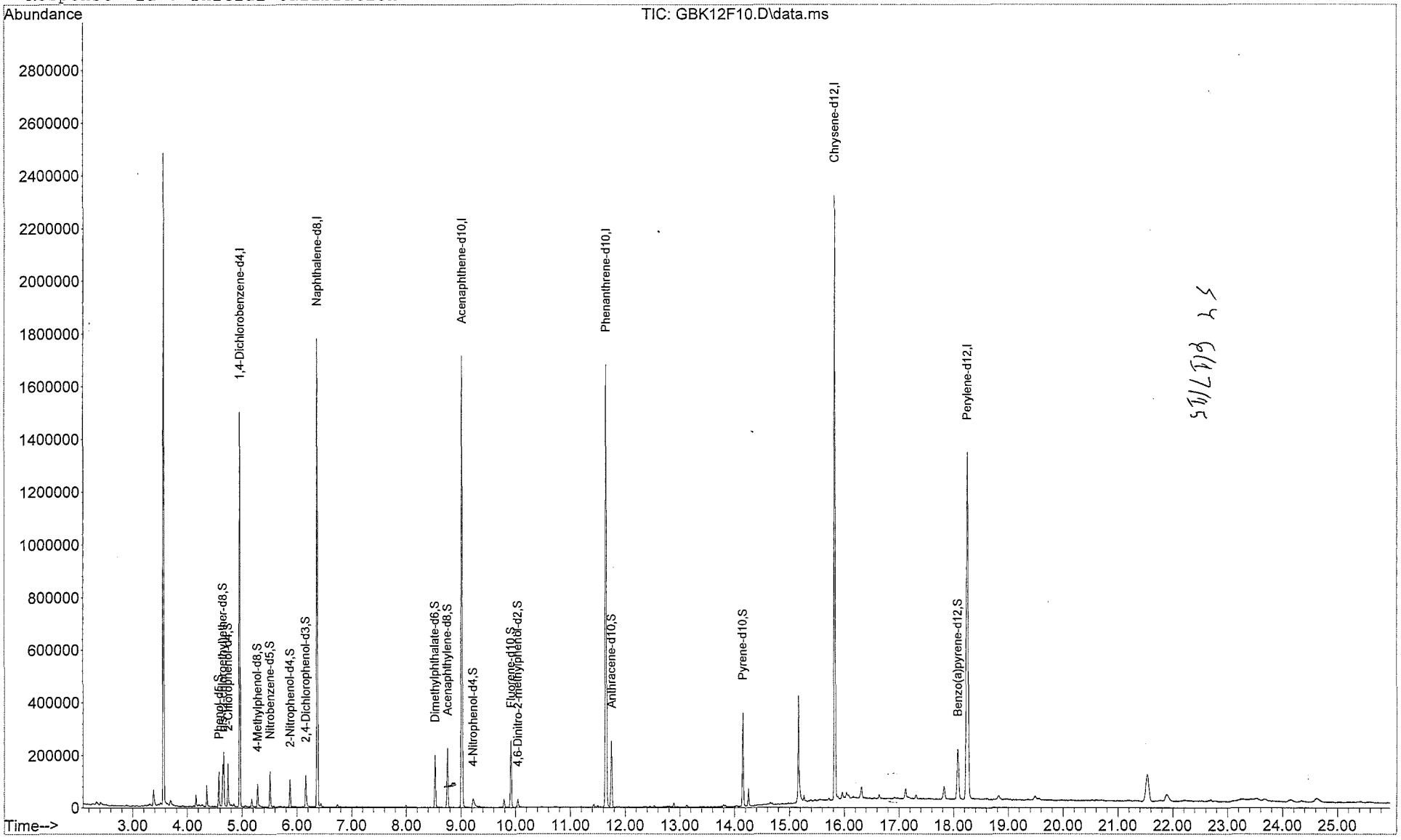
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK12F10.D Vial: 11
Acq On : 06/12/2015 22:06 Operator: DJC
Sample : 1515542010 F9M28 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 12 22:32:53 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK12F10.D Vial: 11
Acq On : 06/12/2015 22:06 Operator: DJC
Sample : 1515542010 F9M28 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 12 22:32:53 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	281761	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1056752	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	603461	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1016134	20.00 ug/ml
73) Chrysene-d12	15.83	240	1014410	20.00 ug/ml
81) Perylene-d12	18.25	264	1012936	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.58	99	56094	2.855ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	31179	2.592ug/mL
7) 2-Chlorophenol-d4	4.74	132	56702	2.939ug/ml
13) 4-Methylphenol-d8	5.28	113	26595	1.739ug/mL
17) Nitrobenzene-d5	5.51	128	26710	3.013ug/ml
21) 2-Nitrophenol-d4	5.87	143	29186	2.954ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	43089	2.977ug/mL
28) 4-Chloroaniline-d4	6.43	131	6078	0.387ug/mL
42) Dimethylphthalate-d6	8.53	166	128717	3.507ug/mL
45) Acenaphthylene-d8	8.76	160	157422	3.214ug/mL
50) 4-Nitrophenol-d4	9.22	143	19441	2.488ug/mL
57) Fluorene-d10	9.92	176	109268	3.428ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	8227	1.233ug/mL
69) Anthracene-d10	11.75	188	168626	3.281ug/mL
75) Pyrene-d10	14.15	212	154212	3.344ug/mL
86) Benzo(a)pyrene-d12	18.07	264	138569	3.016ug/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)\12JUN15\GBK12F10.D Vial: 11
Acq On : 06/12/2015 22:06 Operator: DJC
Sample : 1515542010 F9M28 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 12 22:32:53 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 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)

000396

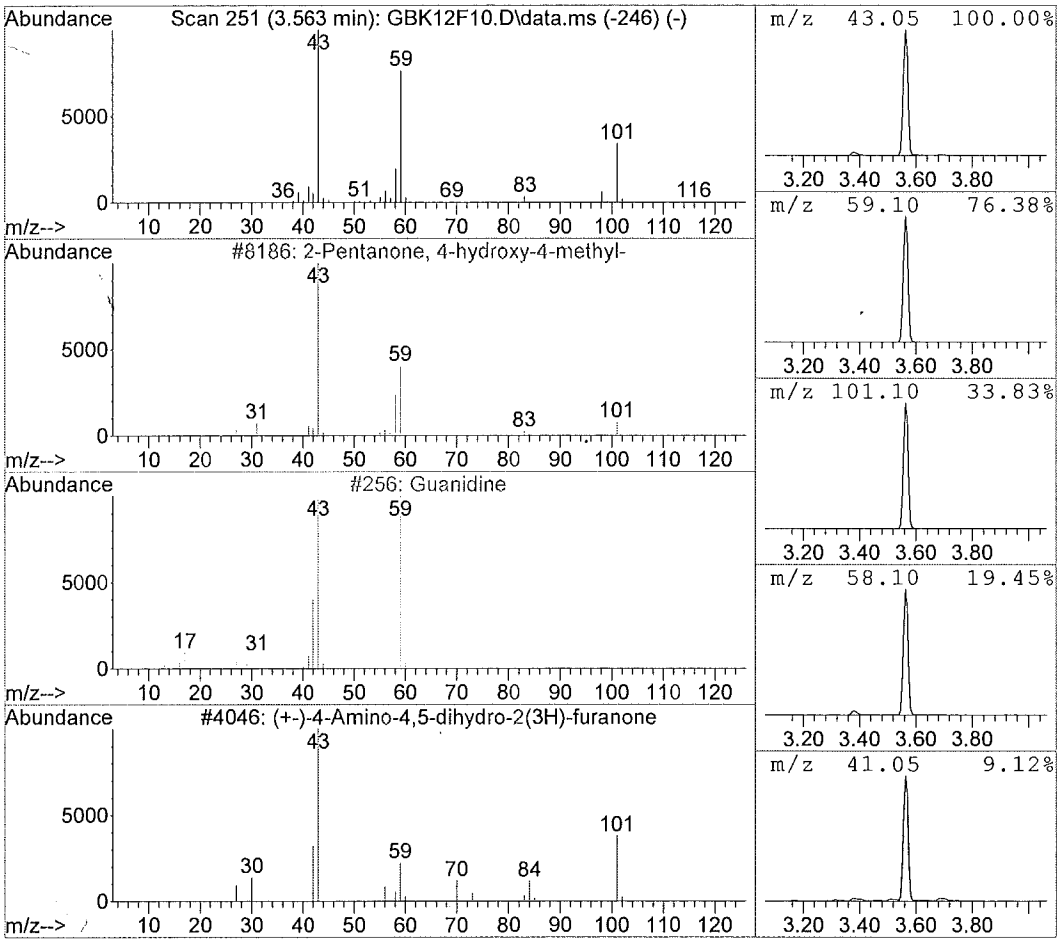
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK12F10.D Vial: 11
Acq On : 06/12/2015 22:06 Operator: DJC
Sample : 1515542010 F9M28 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.56	35.84 ug/ml	2792561	1,4-Dichlorobenzene-d4	1558406

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	47.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Butane, 1-ethoxy-	4425	000628-81-9	9.00



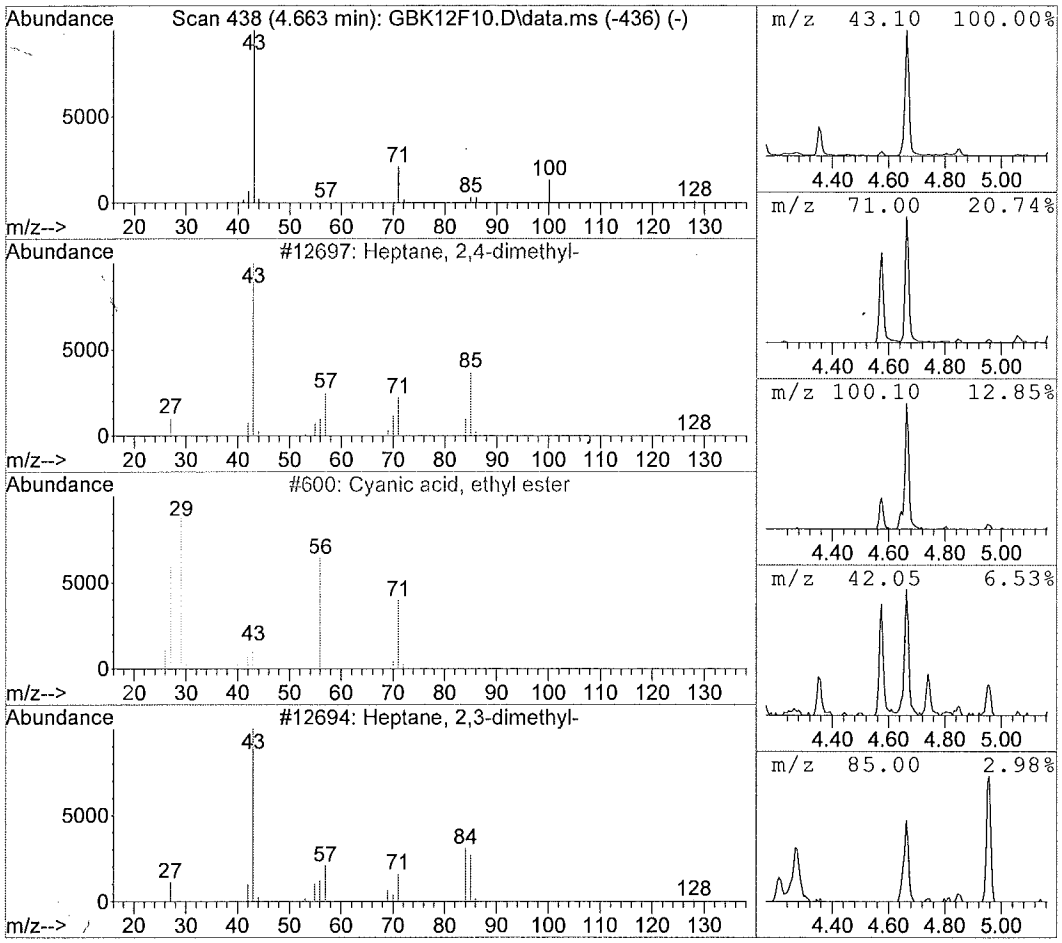
Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK12F10.D Vial: 11
Acq On : 06/12/2015 22:06 Operator: DJC
Sample : 1515542010 F9M28 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.66	2.48 ug/ml	193377	1,4-Dichlorobenzene-d4	1558406

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,4-dimethyl-	12697	002213-23-2	45.00
2	Cyanic acid, ethyl ester	600	000627-48-5	9.00
3	Heptane, 2,3-dimethyl-	12694	003074-71-3	9.00
4	Acetic acid, (3-methylbutoxy)-, 2-p	49899	067634-00-8	9.00
5	3-Hexanone, 5-hydroxy-2-methyl-	13493	059357-07-2	9.00

BA

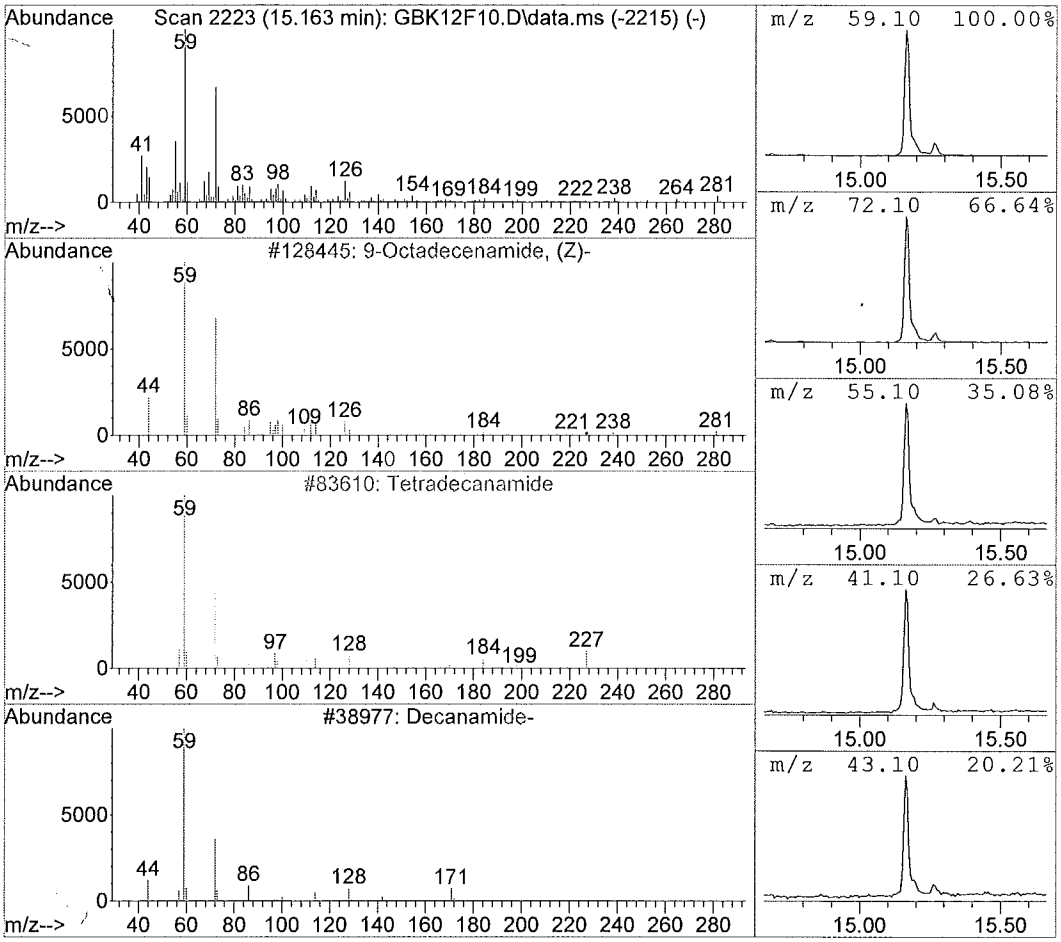


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK12F10.D Vial: 11
Acq On : 06/12/2015 22:06 Operator: DJC
Sample : 1515542010 F9M28 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.16	4.12 ug/ml	595595	Chrysene-d12	2888048

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	95.00
2	Tetradecanamide	83610	000638-58-4	72.00
3	Decanamide-	38977	002319-29-1	53.00
4	Hexadecanamide	106564	000629-54-9	53.00
5	Octanamide	20317	000629-01-6	50.00

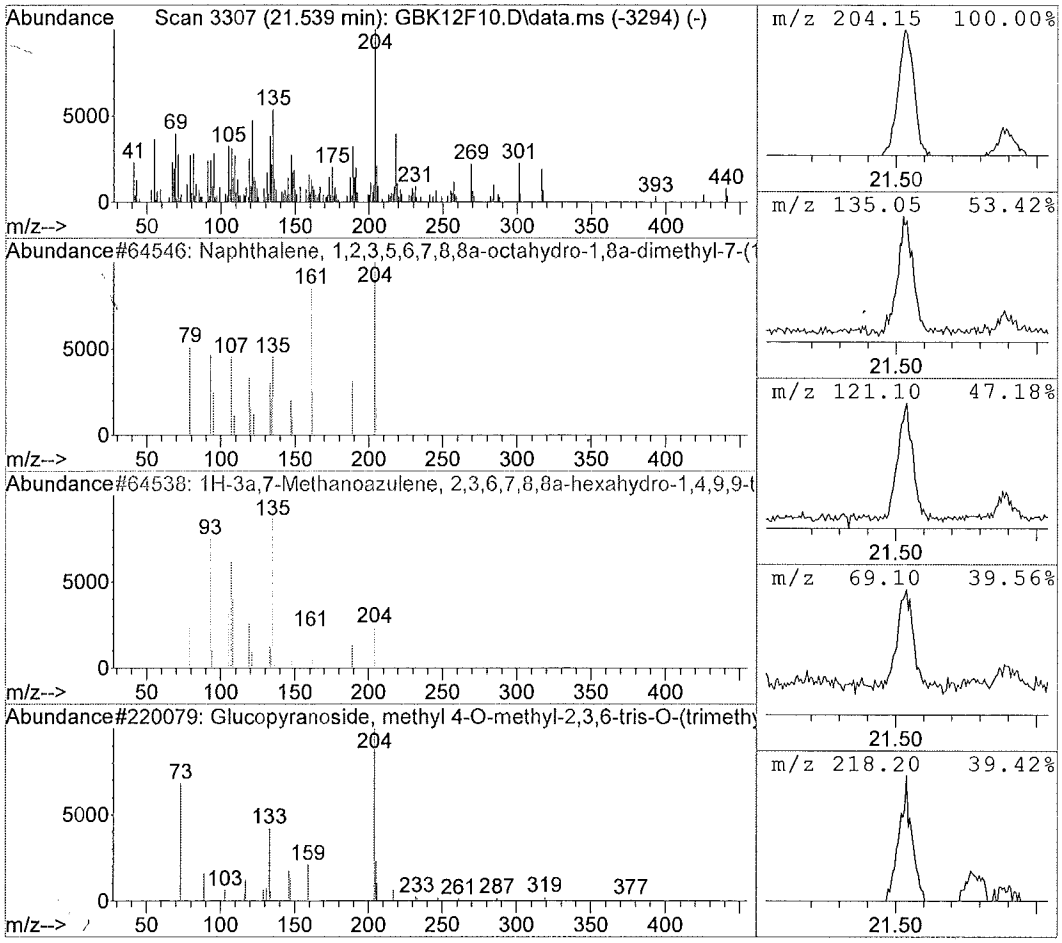


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK12F10.D Vial: 11
Acq On : 06/12/2015 22:06 Operator: DJC
Sample : 1515542010 F9M28 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.54	2.71 ug/ml	406893	Perylene-d12	2998134

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	60.00
2	1H-3a,7-Methanoazulene, 2,3,6,7,8,8	64538	000560-32-7	43.00
3	Glucopyranoside, methyl 4-O-methyl-	220079	032388-33-3	38.00
4	3H-3a,7-Methanoazulene, 2,4,5,6,7,8	64520	002387-78-2	38.00
5	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	38.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M29

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542011

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBK13F11

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: 8.2 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	980	U
108-95-2	Phenol	980	U
111-44-4	Bis(2-chloroethyl)ether	980	U
95-57-8	2-Chlorophenol	980	U
95-48-7	2-Methylphenol	980	U
108-60-1	2,2'-Oxybis(1-chloropropane)	980	U
98-86-2	Acetophenone	980	U
106-44-5	4-Methylphenol	980	U
621-64-7	N-Nitroso-di-n-propylamine	980	U
67-72-1	Hexachloroethane	980	U
98-95-3	Nitrobenzene	980	U
78-59-1	Isophorone	980	U
88-75-5	2-Nitrophenol	980	U
105-67-9	2,4-Dimethylphenol	980	U
111-91-1	Bis(2-chloroethoxy)methane	980	U
120-83-2	2,4-Dichlorophenol	980	U
91-20-3	Naphthalene	980	U
106-47-8	4-Chloroaniline	980	U
87-68-3	Hexachlorobutadiene	980	U
105-60-2	Caprolactam	980	U
59-50-7	4-Chloro-3-methylphenol	980	U
91-57-6	2-Methylnaphthalene	980	U
77-47-4	Hexachlorocyclopentadiene	980	U
88-06-2	2,4,6-Trichlorophenol	980	U
95-95-4	2,4,5-Trichlorophenol	980	U
92-52-4	1,1'-Biphenyl	980	U
91-58-7	2-Chloronaphthalene	980	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	980	U
606-20-2	2,6-Dinitrotoluene	980	U
208-96-8	Acenaphthylene	980	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	980	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M29

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542011

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBK13F11

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: 8.2 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	980	U
121-14-2	2,4-Dinitrotoluene	980	U
84-66-2	Diethylphthalate	980	U
86-73-7	Fluorene	980	U
7005-72-3	4-Chlorophenyl-phenylether	980	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine[1]	980	U
95-94-3	1,2,4,5-Tetrachlorobenzene	980	U
101-55-3	4-Bromophenyl-phenylether	980	U
118-74-1	Hexachlorobenzene	980	U
1912-24-9	Atrazine	980	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	980	U
120-12-7	Anthracene	980	U
86-74-8	Carbazole	980	U
84-74-2	Di-n-butylphthalate	980	U
206-44-0	Fluoranthene	980	U
129-00-0	Pyrene	980	U
85-68-7	Butylbenzylphthalate	980	U
91-94-1	3,3'-Dichlorobenzidine	980	U
56-55-3	Benzo(a)anthracene	980	U
218-01-9	Chrysene	980	U
117-81-7	Bis(2-ethylhexyl)phthalate	980	U
117-84-0	Di-n-octylphthalate	980	U
205-99-2	Benzo(b)fluoranthene	980	U
207-08-9	Benzo(k)fluoranthene	980	U
50-32-8	Benzo(a)pyrene	980	U
193-39-5	Indeno(1,2,3-cd)pyrene	980	U
53-70-3	Dibenzo(a,h)anthracene	980	U
191-24-2	Benzo(g,h,i)perylene	980	U
58-90-2	2,3,4,6-Tetrachlorophenol	980	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9M29

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542011

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBK13F11

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: 8.2 Dilution Factor: 5.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Pentanone, 4-hydroxy-	3.38	520	JB
02		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.58	15000	JB
03		Unknown 3-Hexene-2,5-dione	4.35	400	JB
04	301-02-0	9-Octadecenamide, (Z)-	15.16	1700	JNB
05	112-84-5	13-Docosenamide, (Z)-	17.12	670	JN
06		Unknown 1,4-Dimethyl-8-isopropylidenetricyclo[5.	21.53	990	J
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[2]	Total Alkanes	N/A	950	J

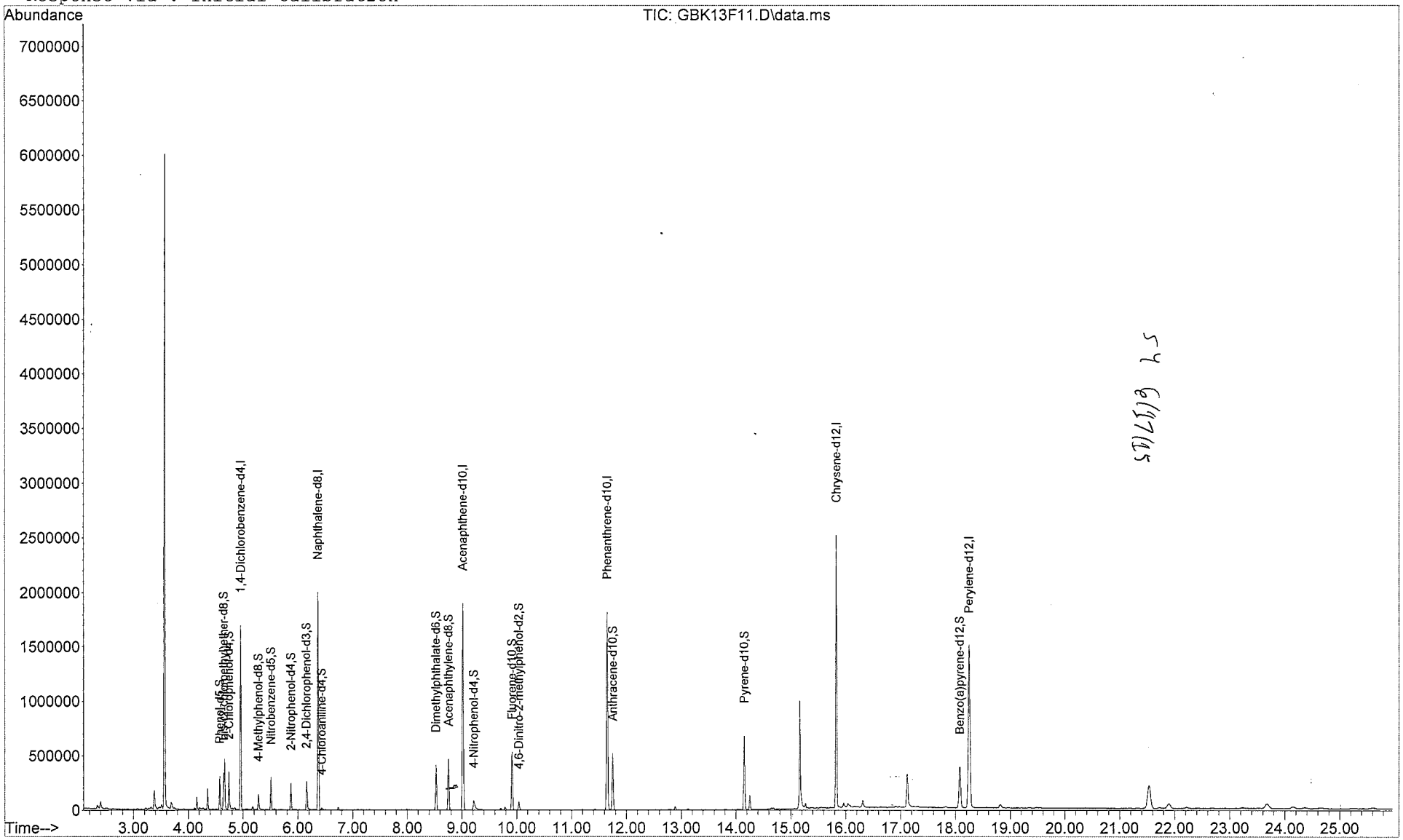
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK13F11.D Vial: 12
Acq On : 06/12/2015 22:38 Operator: DJC
Sample : 1515542011 F9M29 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 12 23:04:57 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK13F11.D Vial: 12
Acq On : 06/12/2015 22:38 Operator: DJC
Sample : 1515542011 F9M29 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 12 23:04:57 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	307570	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1164139	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	669006	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1109483	20.00 ug/ml
73) Chrysene-d12	15.83	240	1114086	20.00 ug/ml
81) Perylene-d12	18.25	264	1105004	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	119816	5.586ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	68753	5.235ug/mL
7) 2-Chlorophenol-d4	4.74	132	119267	5.664ug/ml
13) 4-Methylphenol-d8	5.28	113	41101	2.461ug/mL
17) Nitrobenzene-d5	5.51	128	57494	5.886ug/ml
21) 2-Nitrophenol-d4	5.87	143	66094	6.072ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	81785	5.129ug/mL
28) 4-Chloroaniline-d4	6.43	131	9310	0.538ug/mL
42) Dimethylphthalate-d6	8.53	166	258194	6.346ug/mL
45) Acenaphthylene-d8	8.76	160	320635	5.905ug/mL
50) 4-Nitrophenol-d4	9.22	143	47913	5.530ug/mL
57) Fluorene-d10	9.92	176	221088	6.256ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	21089	2.894ug/mL
69) Anthracene-d10	11.75	188	331725	5.911ug/mL
75) Pyrene-d10	14.15	212	301705	5.957ug/mL
86) Benzo(a)pyrene-d12	18.08	264	273297	5.453ug/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)\12JUN15\GBK13F11.D Vial: 12
Acq On : 06/12/2015 22:38 Operator: DJC
Sample : 1515542011 F9M29 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 12 23:04:57 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 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)

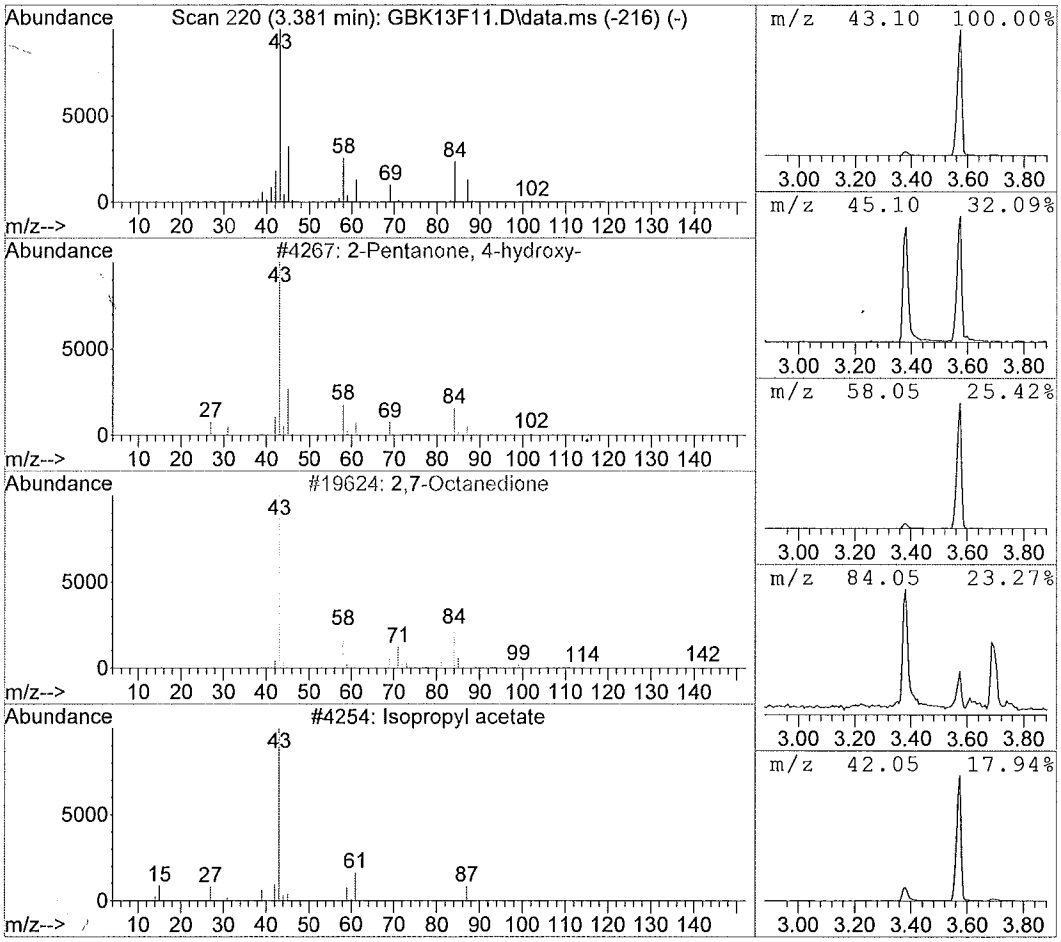
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK13F11.D Vial: 12
Acq On : 06/12/2015 22:38 Operator: DJC
Sample : 1515542011 F9M29 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.38	2.72 ug/ml	233033	1,4-Dichlorobenzene-d4	1714652

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	83.00
2	2,7-Octanedione	19624	001626-09-1	38.00
3	Isopropyl acetate	4254	000108-21-4	10.00
4	Acetone	214	000067-64-1	9.00
5	Propane, 1-(1-methylethoxy)-	4493	000627-08-7	9.00

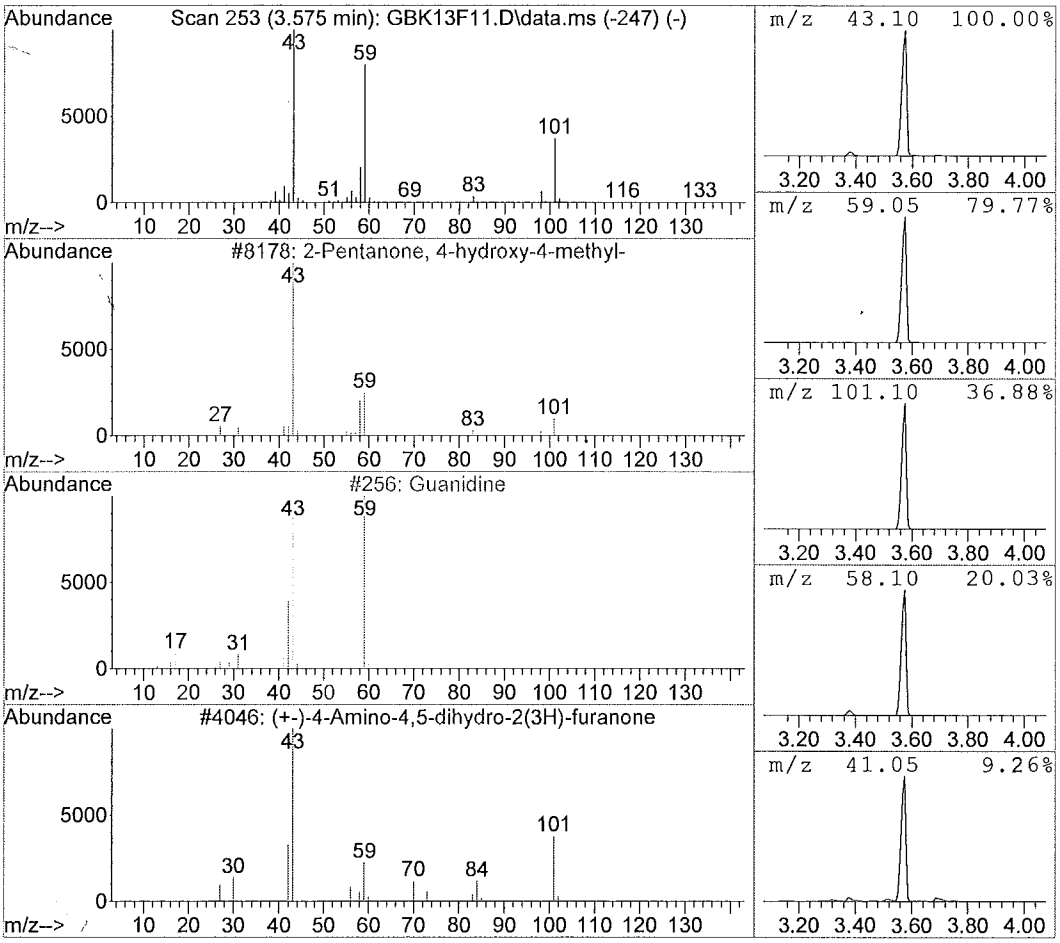


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK13F11.D Vial: 12
Acq On : 06/12/2015 22:38 Operator: DJC
Sample : 1515542011 F9M29 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.57	77.82 ug/ml	6671553	1,4-Dichlorobenzene-d4	1714652

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	47.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Morpholine, 4-methyl-	4083	000109-02-4	9.00

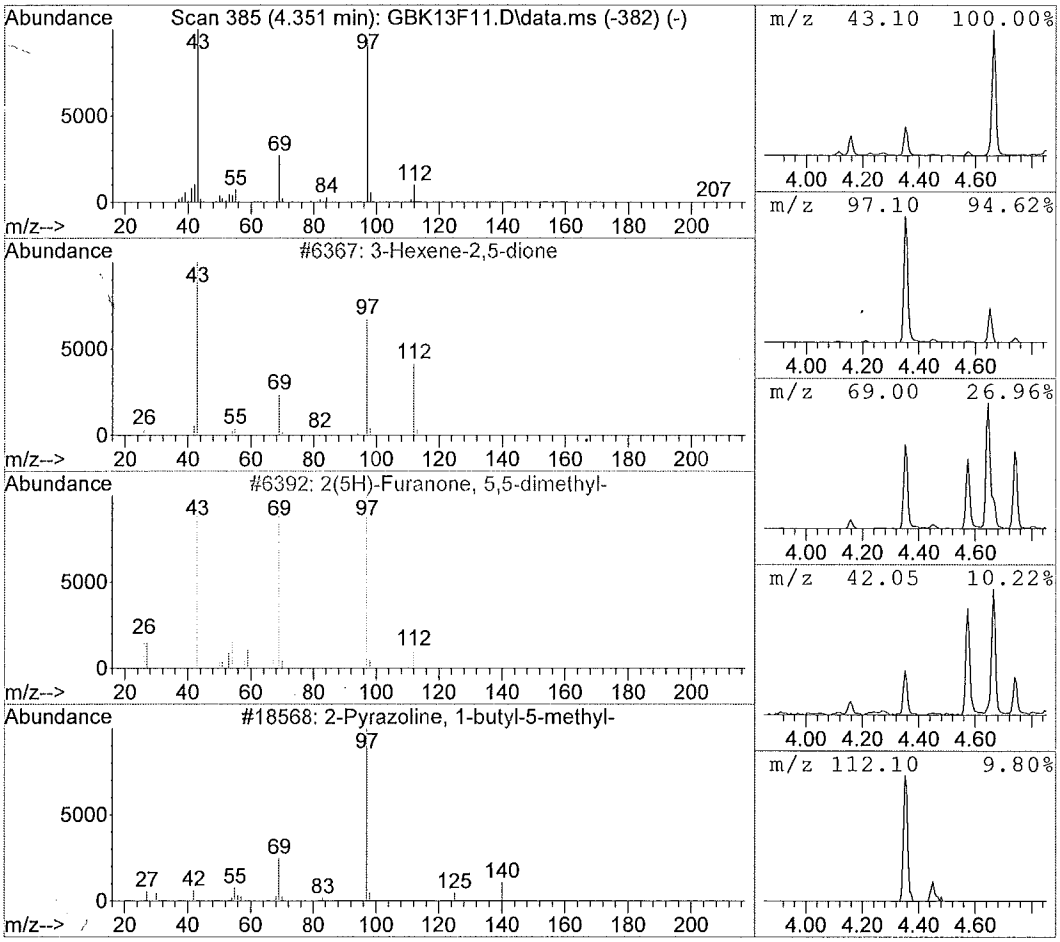


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK13F11.D Vial: 12
Acq On : 06/12/2015 22:38 Operator: DJC
Sample : 1515542011 F9M29 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.35	2.11 ug/ml	181248	1,4-Dichlorobenzene-d4	1714652

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene-2,5-dione	6367	004436-75-3	64.00
2	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	50.00
3	2-Pyrazoline, 1-butyl-5-methyl-	18568	022581-50-6	38.00
4	3-Cyclohexen-1-ol, 3-methyl-	6579	053783-91-8	9.00
5	1-(Trimethylsilyl)-1-propyne	6340	006224-91-5	9.00



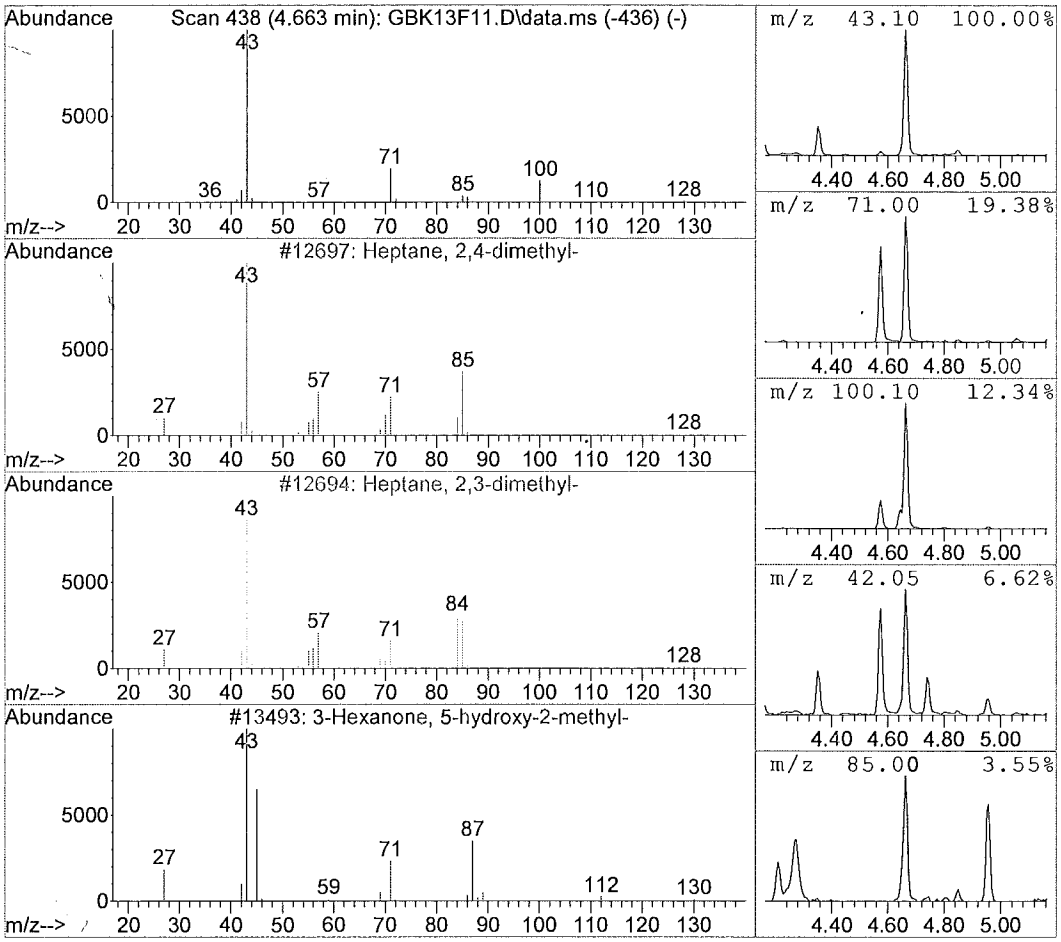
Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK13F11.D Vial: 12
Acq On : 06/12/2015 22:38 Operator: DJC
Sample : 1515542011 F9M29 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.66	4.96 ug/ml	425354	1,4-Dichlorobenzene-d4	1714652

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,4-dimethyl-	12697	002213-23-2	42.00
2	Heptane, 2,3-dimethyl-	12694	003074-71-3	9.00
3	3-Hexanone, 5-hydroxy-2-methyl-	13493	059357-07-2	9.00
4	Acetic acid, (3-methylbutoxy)-, 2-p	49899	067634-00-8	9.00
5	2-Pentanone, 3-ethyl-	7514	006137-03-7	9.00

BA

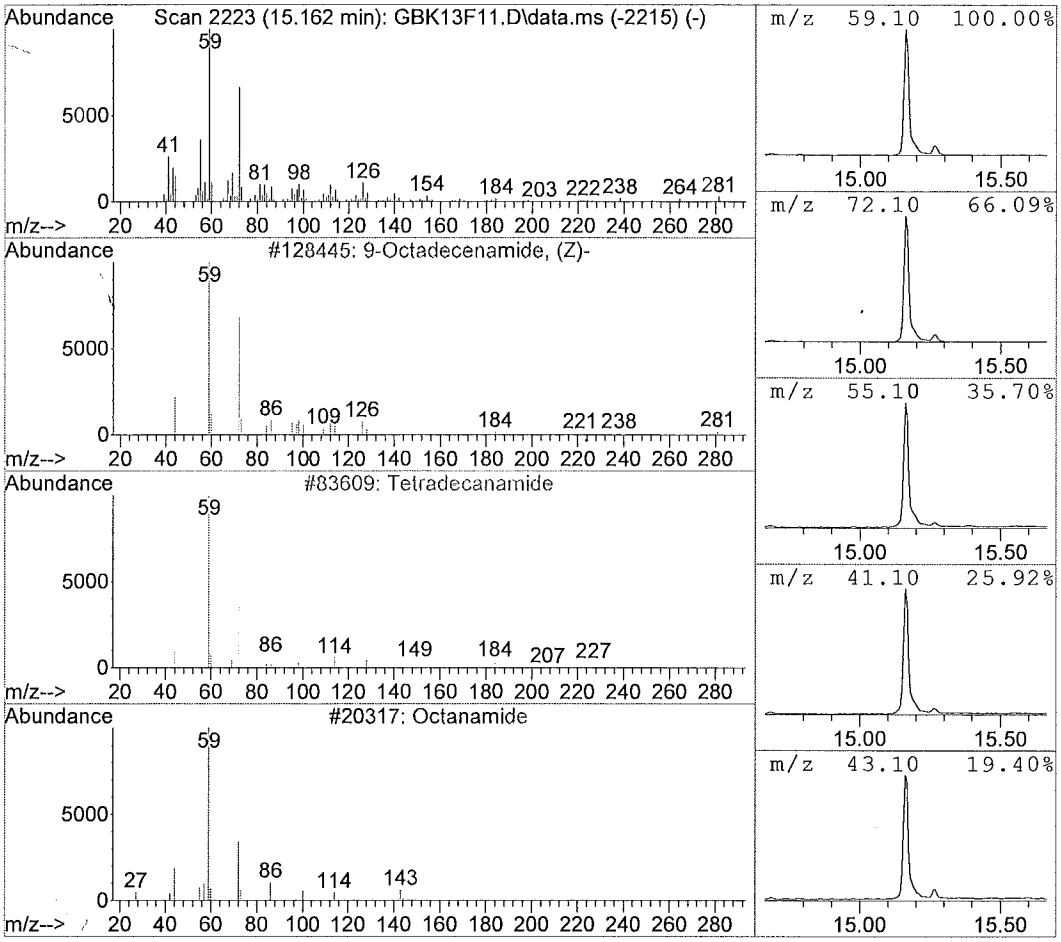


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK13F11.D Vial: 12
Acq On : 06/12/2015 22:38 Operator: DJC
Sample : 1515542011 F9M29 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.16	8.88 ug/ml	1388705	Chrysene-d12	3128376

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Tetradecanamide	83609	000638-58-4	64.00
3	Octanamide	20317	000629-01-6	50.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	50.00
5	Dodecanamide	60440	001120-16-7	50.00

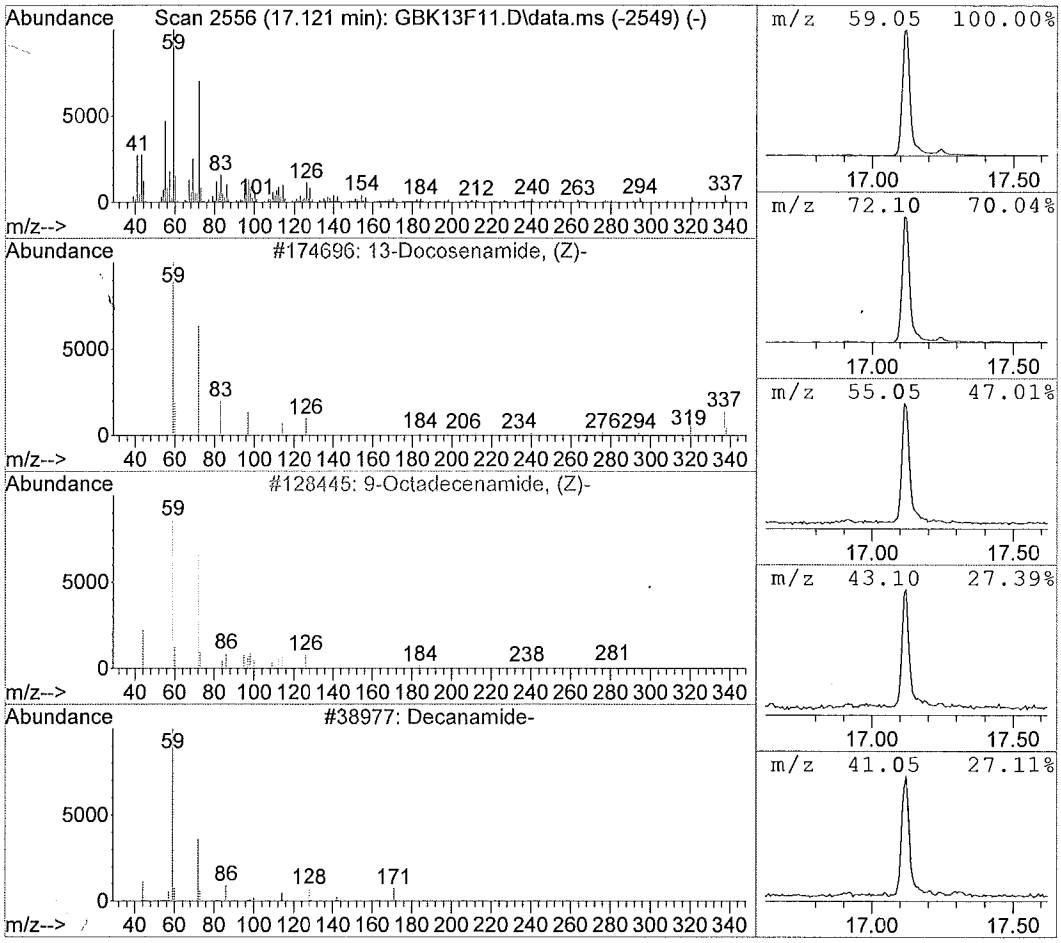


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK13F11.D Vial: 12
Acq On : 06/12/2015 22:38 Operator: DJC
Sample : 1515542011 F9M29 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.12	3.49 ug/ml	572184	Perylene-d12	3275516

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174696	000112-84-5	91.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	91.00
3	Decanamide-	38977	002319-29-1	50.00
4	Dodecanamide	60440	001120-16-7	47.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	43.00



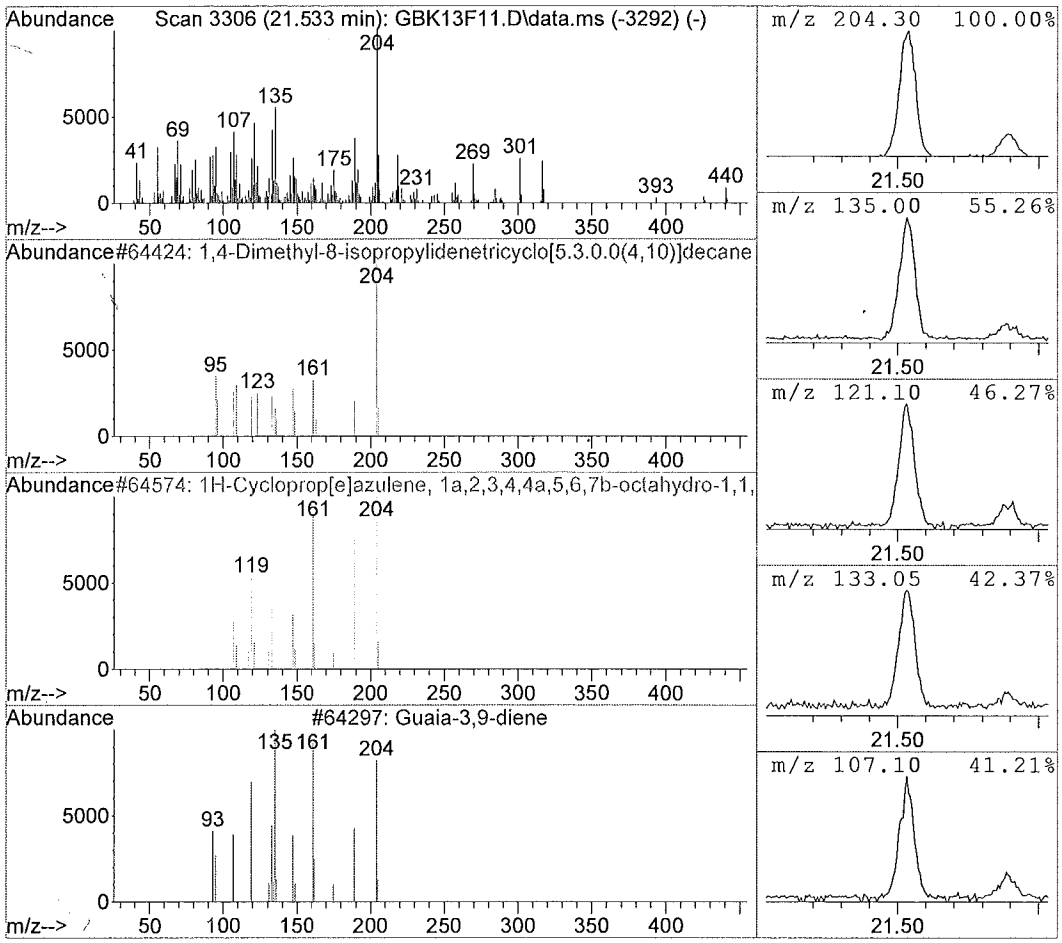
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK13F11.D Vial: 12
Acq On : 06/12/2015 22:38 Operator: DJC
Sample : 1515542011 F9M29 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.53	5.16 ug/ml	845085	Perylene-d12	3275516

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	56.00
2	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64574	000489-40-7	55.00
3	Guaia-3,9-diene	64297	000489-83-8	49.00
4	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	47.00
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.

F9M30

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542012

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBK14F12

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: 8.2 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	990	U
108-95-2	Phenol	990	U
111-44-4	Bis(2-chloroethyl)ether	990	U
95-57-8	2-Chlorophenol	990	U
95-48-7	2-Methylphenol	990	U
108-60-1	2,2'-Oxybis(1-chloropropane)	990	U
98-86-2	Acetophenone	990	U
106-44-5	4-Methylphenol	990	U
621-64-7	N-Nitroso-di-n-propylamine	990	U
67-72-1	Hexachloroethane	990	U
98-95-3	Nitrobenzene	990	U
78-59-1	Isophorone	990	U
88-75-5	2-Nitrophenol	990	U
105-67-9	2,4-Dimethylphenol	990	U
111-91-1	Bis(2-chloroethoxy)methane	990	U
120-83-2	2,4-Dichlorophenol	990	U
91-20-3	Naphthalene	990	U
106-47-8	4-Chloroaniline	990	U
87-68-3	Hexachlorobutadiene	990	U
105-60-2	Caprolactam	990	U
59-50-7	4-Chloro-3-methylphenol	990	U
91-57-6	2-Methylnaphthalene	990	U
77-47-4	Hexachlorocyclopentadiene	990	U
88-06-2	2,4,6-Trichlorophenol	990	U
95-95-4	2,4,5-Trichlorophenol	990	U
92-52-4	1,1'-Biphenyl	990	U
91-58-7	2-Chloronaphthalene	990	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	990	U
606-20-2	2,6-Dinitrotoluene	990	U
208-96-8	Acenaphthylene	990	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	990	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M30

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542012

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBK14F12

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: 8.2 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	990	U
121-14-2	2,4-Dinitrotoluene	990	U
84-66-2	Diethylphthalate	990	U
86-73-7	Fluorene	990	U
7005-72-3	4-Chlorophenyl-phenylether	990	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine[1]	990	U
95-94-3	1,2,4,5-Tetrachlorobenzene	990	U
101-55-3	4-Bromophenyl-phenylether	990	U
118-74-1	Hexachlorobenzene	990	U
1912-24-9	Atrazine	990	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	990	U
120-12-7	Anthracene	990	U
86-74-8	Carbazole	990	U
84-74-2	Di-n-butylphthalate	990	U
206-44-0	Fluoranthene	990	U
129-00-0	Pyrene	990	U
85-68-7	Butylbenzylphthalate	990	U
91-94-1	3,3'-Dichlorobenzidine	990	U
56-55-3	Benzo(a)anthracene	990	U
218-01-9	Chrysene	990	U
117-81-7	Bis(2-ethylhexyl)phthalate	990	U
117-84-0	Di-n-octylphthalate	990	U
205-99-2	Benzo(b)fluoranthene	990	U
207-08-9	Benzo(k)fluoranthene	990	U
50-32-8	Benzo(a)pyrene	990	U
193-39-5	Indeno(1,2,3-cd)pyrene	990	U
53-70-3	Dibenzo(a,h)anthracene	990	U
191-24-2	Benzo(g,h,i)perylene	990	U
58-90-2	2,3,4,6-Tetrachlorophenol	990	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M30

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542012
Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBK14F12
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015
GPC Cleanup: (Y/N) Y pH: 8.2 Dilution Factor: 5.0

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-	2.49	540	JNB
02		Unknown 2-Pentanone, 4-hydroxy-	3.38	550	JB
03		Unknown Guanidine	3.57	16000	J
04	301-02-0	9-Octadecenamide, (Z)-	15.17	1700	JNB
05	112-84-5	13-Docosenamide, (Z)-	17.12	740	JN
06		Unknown Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	21.53	1000	J
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[2]	Total Alkanes	N/A	420	J

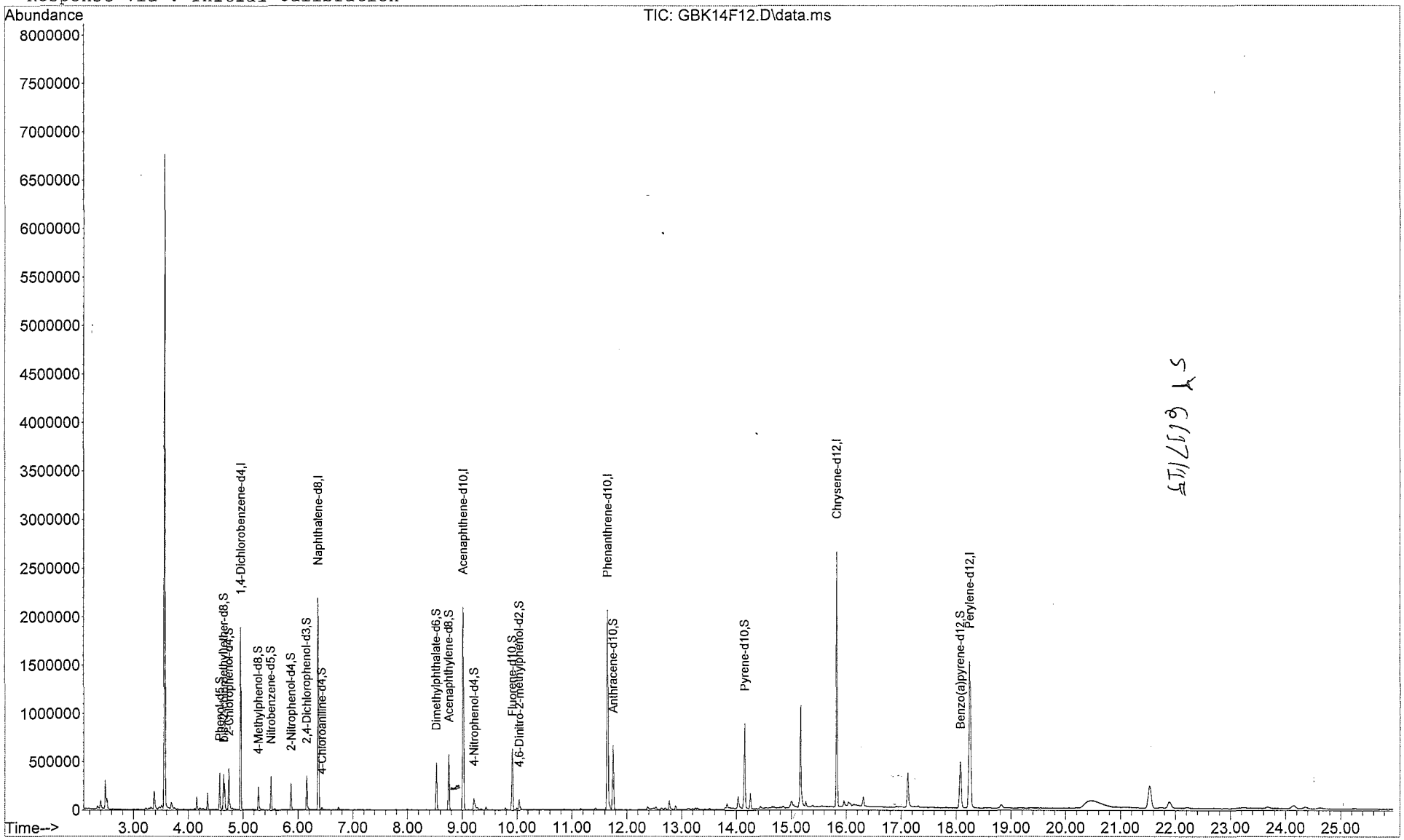
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK14F12.D Vial: 13
Acq On : 06/12/2015 23:10 Operator: DJC
Sample : 1515542012 F9M30 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 12 23:36:51 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK14F12.D Vial: 13
Acq On : 06/12/2015 23:10 Operator: DJC
Sample : 1515542012 F9M30 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 12 23:36:51 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	338466	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1292606	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	735692	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1201807	20.00 ug/ml
73) Chrysene-d12	15.83	240	1178334	20.00 ug/ml
81) Perylene-d12	18.25	264	1160872	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	141887	6.012ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	79043	5.469ug/mL
7) 2-Chlorophenol-d4	4.74	132	141155	6.091ug/ml
13) 4-Methylphenol-d8	5.28	113	67857	3.693ug/mL
17) Nitrobenzene-d5	5.51	128	66313	6.115ug/ml
21) 2-Nitrophenol-d4	5.87	143	74990	6.205ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	103745	5.860ug/mL
28) 4-Chloroaniline-d4	6.43	131	11442	0.596ug/mL
42) Dimethylphthalate-d6	8.53	166	302964	6.771ug/mL
45) Acenaphthylene-d8	8.76	160	377643	6.325ug/mL
50) 4-Nitrophenol-d4	9.22	143	57832	6.070ug/mL
57) Fluorene-d10	9.92	176	260588	6.706ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	26743	3.388ug/mL
69) Anthracene-d10	11.75	188	419654	6.903ug/mL
75) Pyrene-d10	14.15	212	370734	6.921ug/mL
86) Benzo(a)pyrene-d12	18.08	264	353570	6.715ug/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)\12JUN15\GBK14F12.D Vial: 13
Acq On : 06/12/2015 23:10 Operator: DJC
Sample : 1515542012 F9M30 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 12 23:36:51 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 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)

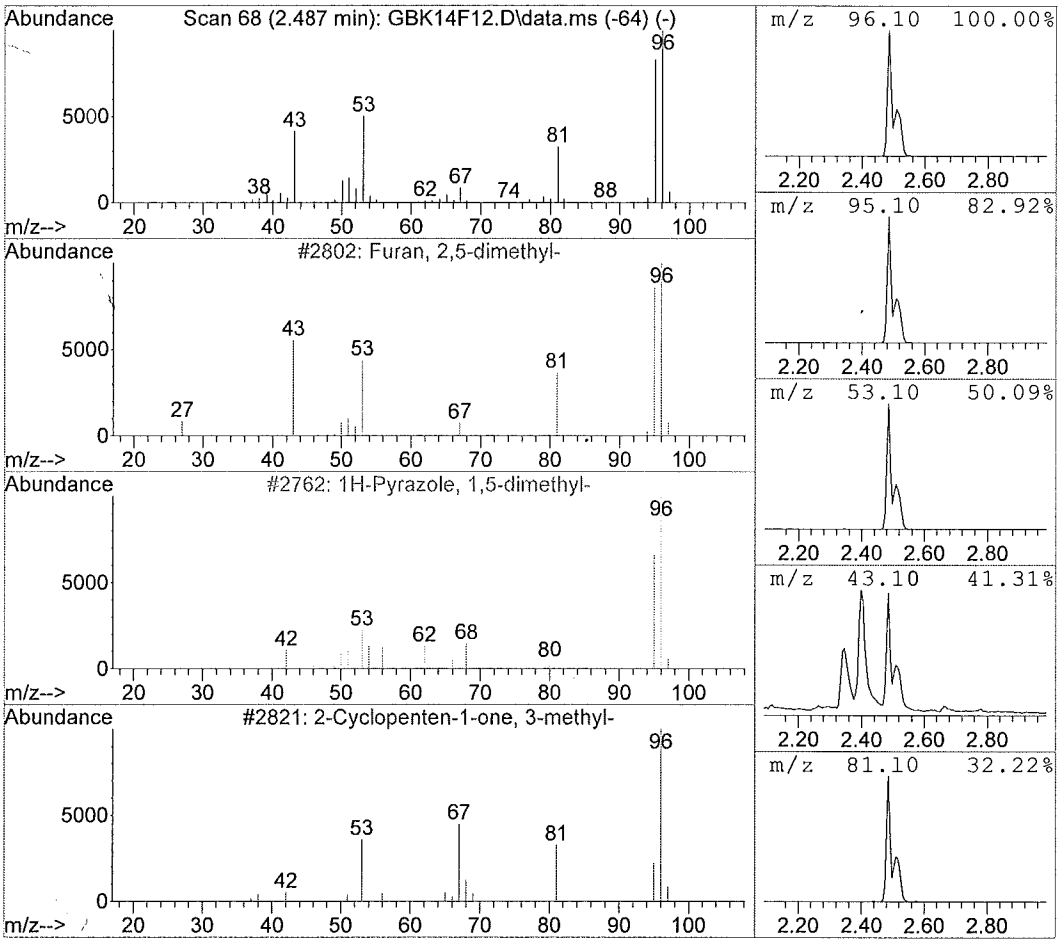
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK14F12.D Vial: 13
Acq On : 06/12/2015 23:10 Operator: DJC
Sample : 1515542012 F9M30 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.49	2.78 ug/ml	262410	1,4-Dichlorobenzene-d4	1884602

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Furan, 2,5-dimethyl-	2802	000625-86-5	94.00
2	1H-Pyrazole, 1,5-dimethyl-	2762	000694-31-5	43.00
3	2-Cyclopenten-1-one, 3-methyl-	2821	002758-18-1	38.00
4	1H-Pyrazole, 1,3-dimethyl-	2761	000694-48-4	38.00
5	3-Furaldehyde	2738	000498-60-2	35.00

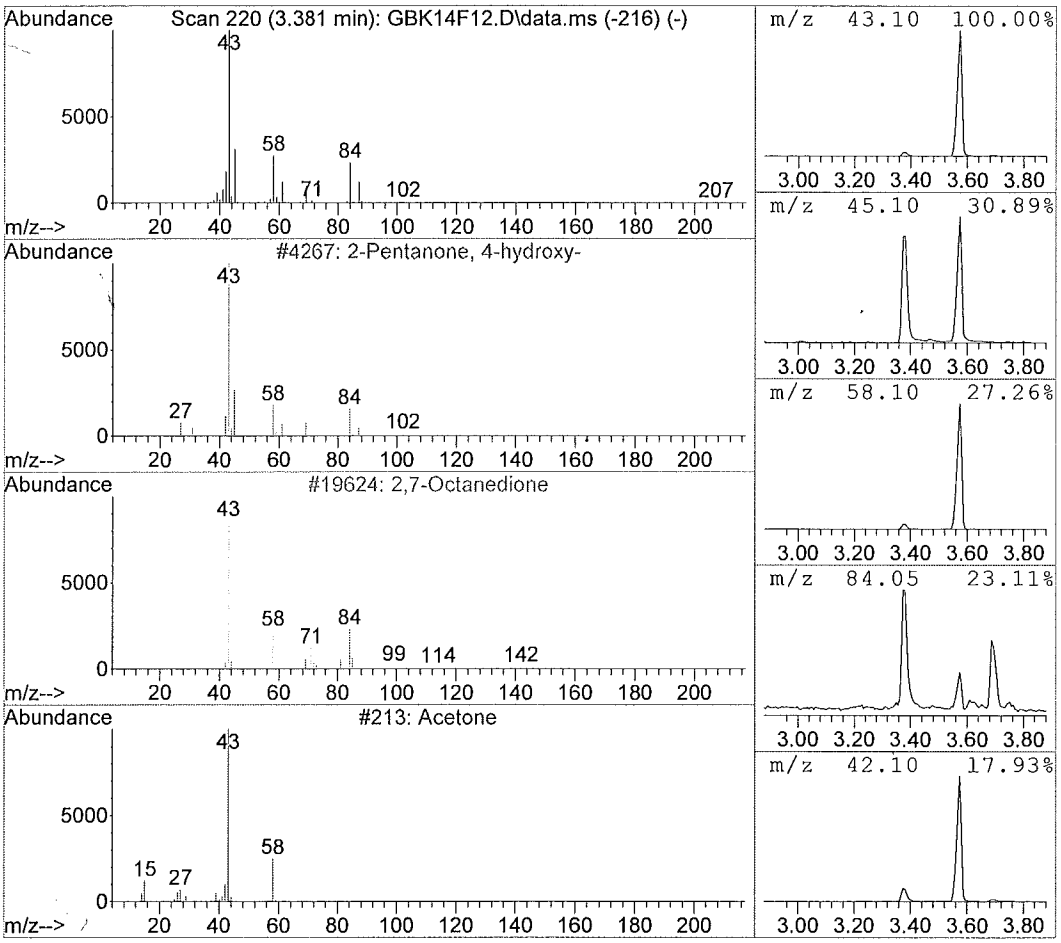


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK14F12.D Vial: 13
Acq On : 06/12/2015 23:10 Operator: DJC
Sample : 1515542012 F9M30 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.38	2.84 ug/ml	268073	1,4-Dichlorobenzene-d4	1884602

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	64.00
2	2,7-Octanedione	19624	001626-09-1	28.00
3	Acetone	213	000067-64-1	9.00
4	Acetic acid, hexyl ester	20871	000142-92-7	9.00
5	Methylene diamine, N,N'-diacetyl-	13181	003852-14-0	9.00

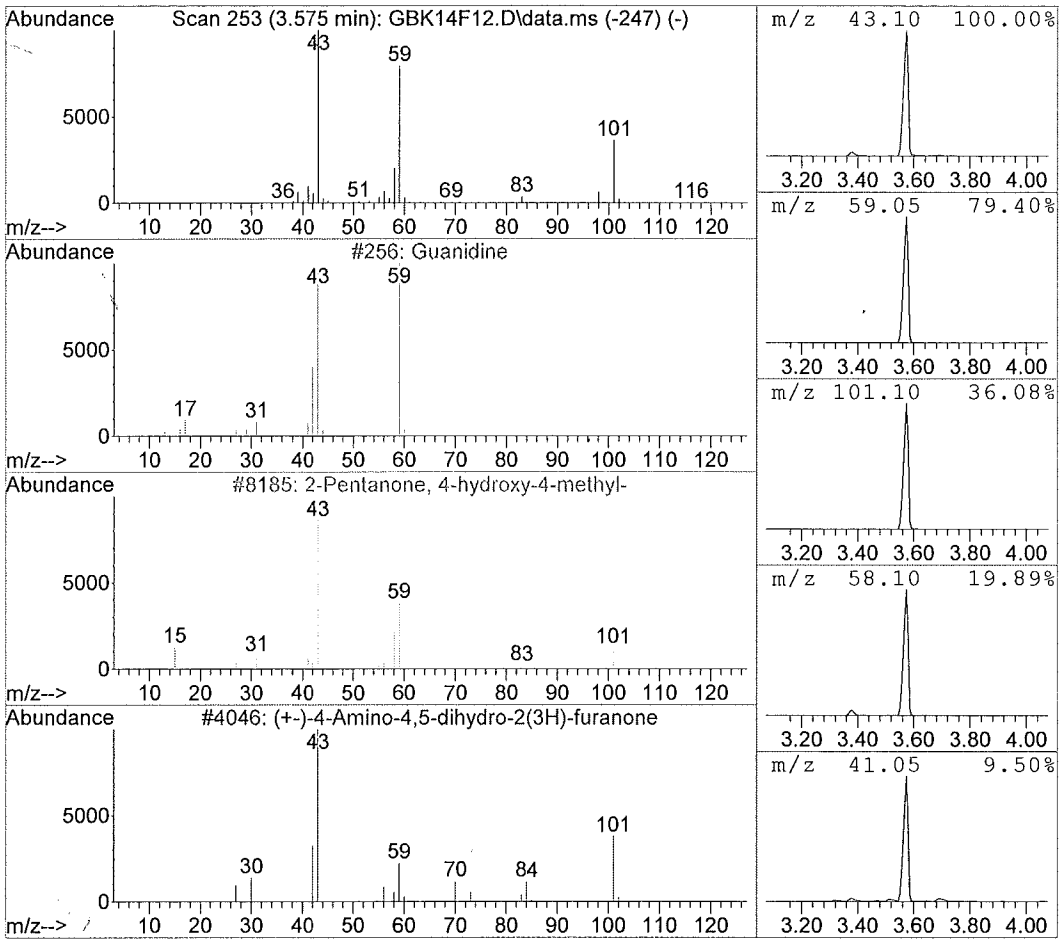


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK14F12.D Vial: 13
Acq On : 06/12/2015 23:10 Operator: DJC
Sample : 1515542012 F9M30 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.57	80.85 ug/ml	7618391	1,4-Dichlorobenzene-d4	1884602

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Guanidine	256	000113-00-8	47.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	37.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Morpholine, 4-methyl-	4084	000109-02-4	9.00



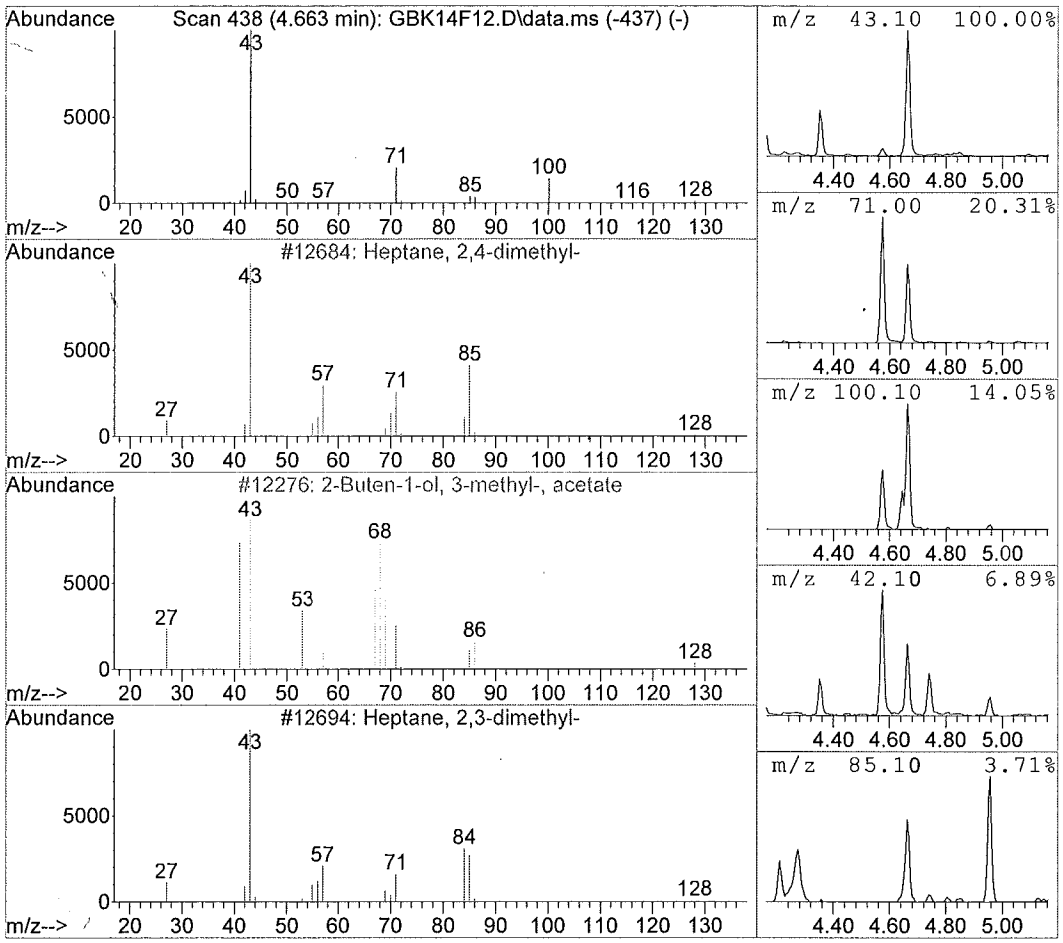
Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK14F12.D Vial: 13
Acq On : 06/12/2015 23:10 Operator: DJC
Sample : 1515542012 F9M30 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.66	2.15 ug/ml	202727	1,4-Dichlorobenzene-d4	1884602

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,4-dimethyl-	12684	002213-23-2	42.00
2	2-Buten-1-ol, 3-methyl-, acetate	12276	001191-16-8	9.00
3	Heptane, 2,3-dimethyl-	12694	003074-71-3	9.00
4	2-Pentanone, 3-methyl-	3859	000565-61-7	9.00
5	3-Hexanone, 5-hydroxy-2-methyl-	13493	059357-07-2	9.00

BA

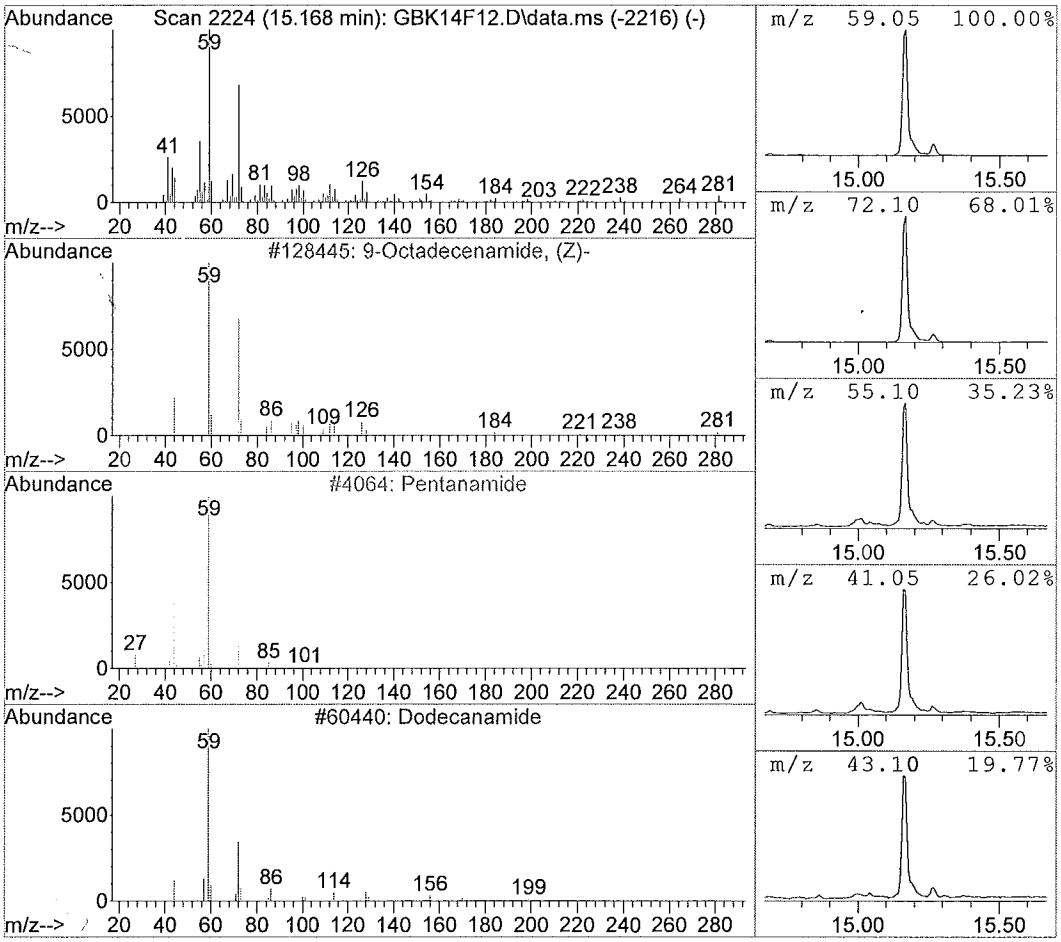


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK14F12.D Vial: 13
Acq On : 06/12/2015 23:10 Operator: DJC
Sample : 1515542012 F9M30 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	8.84 ug/ml	1474583	Chrysene-d12	3336107

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	Pentanamide	4064	000626-97-1	50.00
3	Dodecanamide	60440	001120-16-7	50.00
4	Pentanamide, 4-methyl-	7815	001119-29-5	47.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	45.00



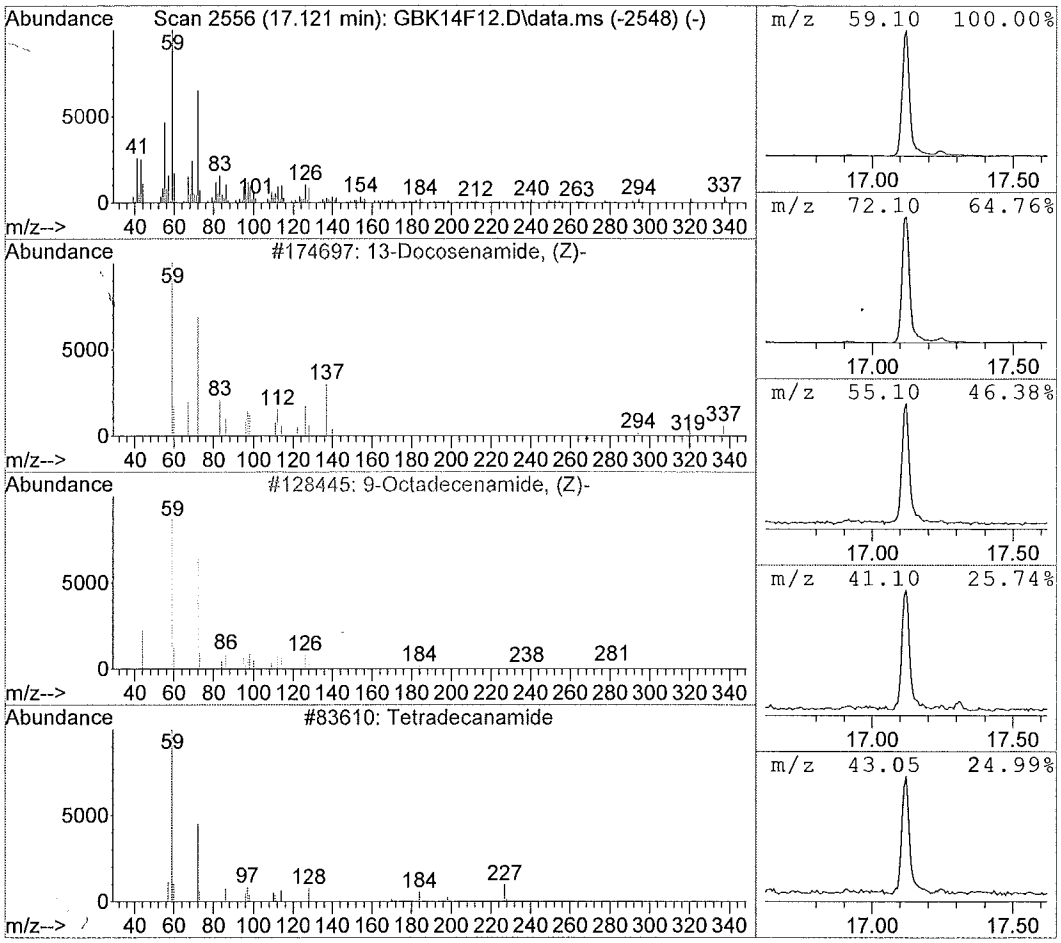
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK14F12.D Vial: 13
Acq On : 06/12/2015 23:10 Operator: DJC
Sample : 1515542012 F9M30 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.12	3.83 ug/ml	669022	Perylene-d12	3493522

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174697	000112-84-5	92.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	90.00
3	Tetradecanamide	83610	000638-58-4	72.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	50.00
5	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	47.00

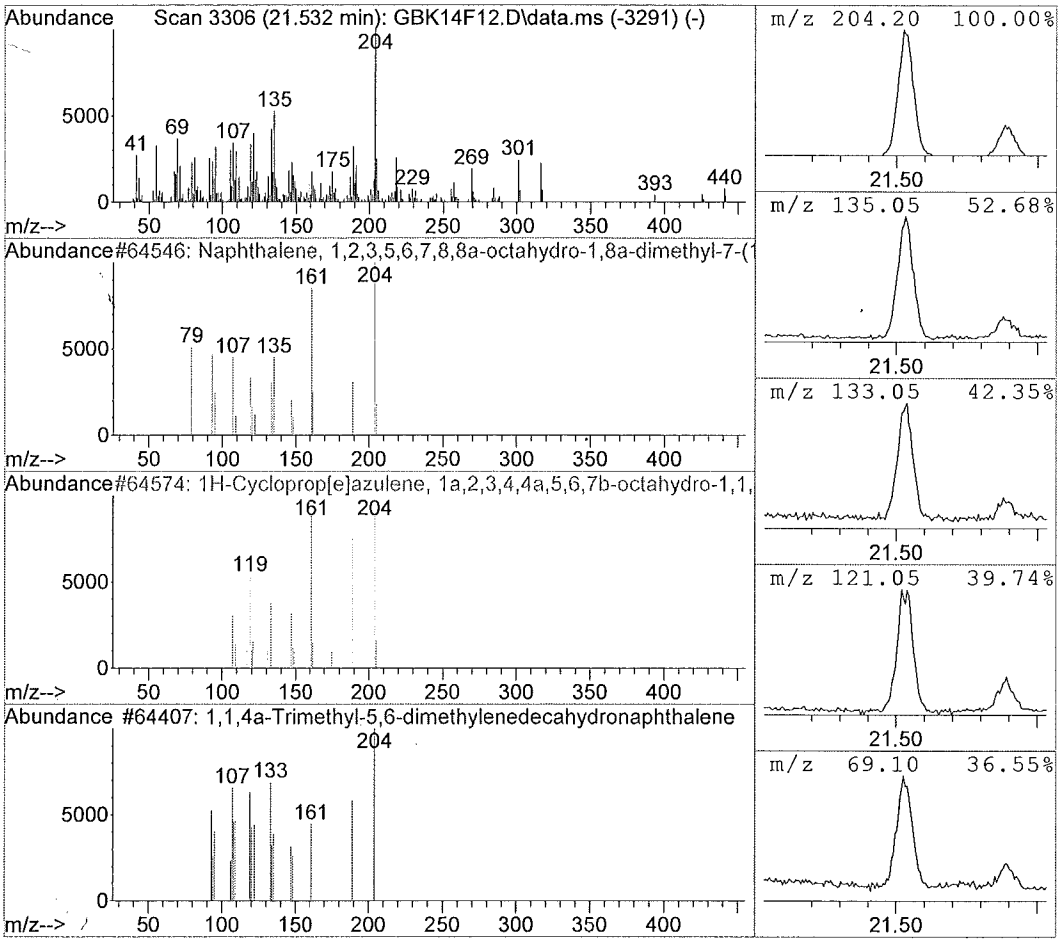


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK14F12.D Vial: 13
Acq On : 06/12/2015 23:10 Operator: DJC
Sample : 1515542012 F9M30 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.53	5.19 ug/ml	907333	Perylene-d12	3493522

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	64.00
2	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64574	000489-40-7	53.00
3	1,1,4a-Trimethyl-5,6-dimethylenedec	64407	1000193-60-8	50.00
4	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	49.00
5	2H-Cyclopentacyclooctene, 4,5,6,7,8	64452	1000221-85-8	45.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M31

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542013

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBK15F13

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	2000	U
108-95-2	Phenol	2000	U
111-44-4	Bis(2-chloroethyl)ether	2000	U
95-57-8	2-Chlorophenol	2000	U
95-48-7	2-Methylphenol	2000	U
108-60-1	2,2'-Oxybis(1-chloropropane)	2000	U
98-86-2	Acetophenone	2000	U
106-44-5	4-Methylphenol	2000	U
621-64-7	N-Nitroso-di-n-propylamine	2000	U
67-72-1	Hexachloroethane	2000	U
98-95-3	Nitrobenzene	2000	U
78-59-1	Isophorone	2000	U
88-75-5	2-Nitrophenol	2000	U
105-67-9	2,4-Dimethylphenol	2000	U
111-91-1	Bis(2-chloroethoxy)methane	2000	U
120-83-2	2,4-Dichlorophenol	2000	U
91-20-3	Naphthalene	2000	U
106-47-8	4-Chloroaniline	2000	U
87-68-3	Hexachlorobutadiene	2000	U
105-60-2	Caprolactam	2000	U
59-50-7	4-Chloro-3-methylphenol	2000	U
91-57-6	2-Methylnaphthalene	2000	U
77-47-4	Hexachlorocyclopentadiene	2000	U
88-06-2	2,4,6-Trichlorophenol	2000	U
95-95-4	2,4,5-Trichlorophenol	2000	U
92-52-4	1,1'-Biphenyl	2000	U
91-58-7	2-Chloronaphthalene	2000	U
88-74-4	2-Nitroaniline	3900	U
131-11-3	Dimethylphthalate	2000	U
606-20-2	2,6-Dinitrotoluene	2000	U
208-96-8	Acenaphthylene	2000	U
99-09-2	3-Nitroaniline	3900	U
83-32-9	Acenaphthene	2000	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M31

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542013

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBK15F13

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	3900	U
100-02-7	4-Nitrophenol	3900	U
132-64-9	Dibenzofuran	2000	U
121-14-2	2,4-Dinitrotoluene	2000	U
84-66-2	Diethylphthalate	2000	U
86-73-7	Fluorene	2000	U
7005-72-3	4-Chlorophenyl-phenylether	2000	U
100-01-6	4-Nitroaniline	3900	U
534-52-1	4,6-Dinitro-2-methylphenol	3900	U
86-30-6	N-Nitrosodiphenylamine[1]	2000	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2000	U
101-55-3	4-Bromophenyl-phenylether	2000	U
118-74-1	Hexachlorobenzene	2000	U
1912-24-9	Atrazine	2000	U
87-86-5	Pentachlorophenol	3900	U
85-01-8	Phenanthrene	2000	U
120-12-7	Anthracene	2000	U
86-74-8	Carbazole	2000	U
84-74-2	Di-n-butylphthalate	2000	U
206-44-0	Fluoranthene	2000	U
129-00-0	Pyrene	2000	U
85-68-7	Butylbenzylphthalate	2000	U
91-94-1	3,3'-Dichlorobenzidine	2000	U
56-55-3	Benzo(a)anthracene	2000	U
218-01-9	Chrysene	2000	U
117-81-7	Bis(2-ethylhexyl)phthalate	2000	U
117-84-0	Di-n-octylphthalate	2000	U
205-99-2	Benzo(b)fluoranthene	2000	U
207-08-9	Benzo(k)fluoranthene	2000	U
50-32-8	Benzo(a)pyrene	2000	U
193-39-5	Indeno(1,2,3-cd)pyrene	2000	U
53-70-3	Dibenzo(a,h)anthracene	2000	U
191-24-2	Benzo(g,h,i)perylene	2000	U
58-90-2	2,3,4,6-Tetrachlorophenol	2000	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M31

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542013
Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBK15F13
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015
GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 10.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Guanidine	3.57	16000	J
02	301-02-0	9-Octadecenamide, (Z)-	15.16	1300	JNB
03	112-84-5	13-Docosenamide, (Z)-	17.12	780	JN
04		Unknown Picolinyl 8-(5-hexyl-2-furyl)-octanoate	23.67	980	J
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[2]	Total Alkanes	N/A		

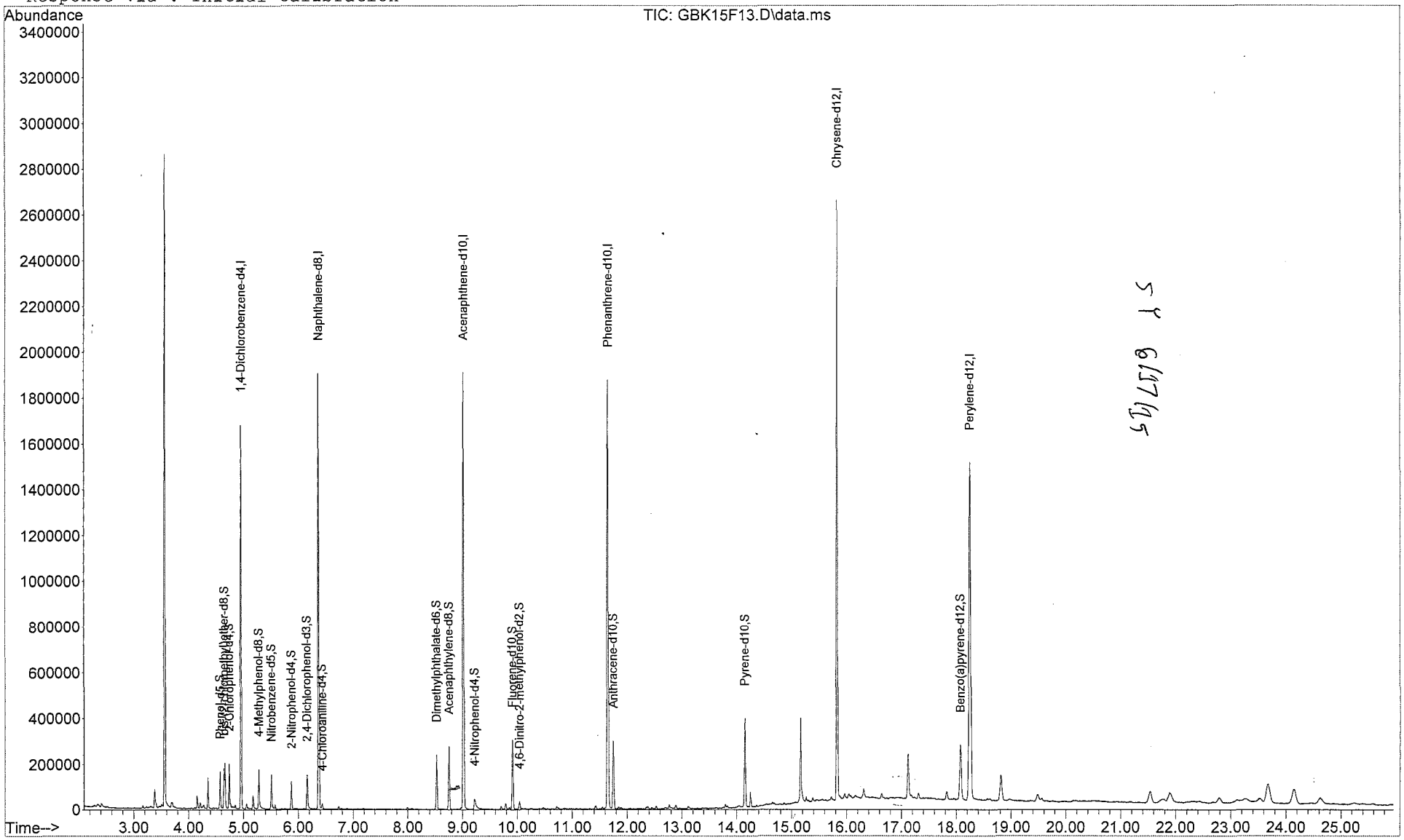
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK15F13.D Vial: 14
Acq On : 06/12/2015 23:42 Operator: DJC
Sample : 1515542013 F9M31 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 13 00:08:43 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK15F13.D Vial: 14
Acq On : 06/12/2015 23:42 Operator: DJC
Sample : 1515542013 F9M31 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 13 00:08:43 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	306885	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1136574	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	663444	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1127330	20.00 ug/ml
73) Chrysene-d12	15.83	240	1157743	20.00 ug/ml
81) Perylene-d12	18.25	264	1124314	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	66908	3.126ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	34933	2.666ug/mL
7) 2-Chlorophenol-d4	4.74	132	67786	3.226ug/ml
13) 4-Methylphenol-d8	5.28	113	50981	3.060ug/mL
17) Nitrobenzene-d5	5.51	128	29839	3.129ug/ml
21) 2-Nitrophenol-d4	5.87	143	33794	3.180ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	48835	3.137ug/mL
28) 4-Chloroaniline-d4	6.43	131	10735	0.636ug/mL
42) Dimethylphthalate-d6	8.53	166	149658	3.709ug/mL
45) Acenaphthylene-d8	8.75	160	183445	3.407ug/mL
50) 4-Nitrophenol-d4	9.22	143	26842	3.124ug/mL
57) Fluorene-d10	9.91	176	128841	3.676ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	9413	1.271ug/mL
69) Anthracene-d10	11.75	188	200103	3.509ug/mL
75) Pyrene-d10	14.15	212	180108	3.422ug/mL
86) Benzo(a)pyrene-d12	18.07	264	170337	3.340ug/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)\12JUN15\GBK15F13.D Vial: 14
Acq On : 06/12/2015 23:42 Operator: DJC
Sample : 1515542013 F9M31 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 13 00:08:43 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 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)

: 89432

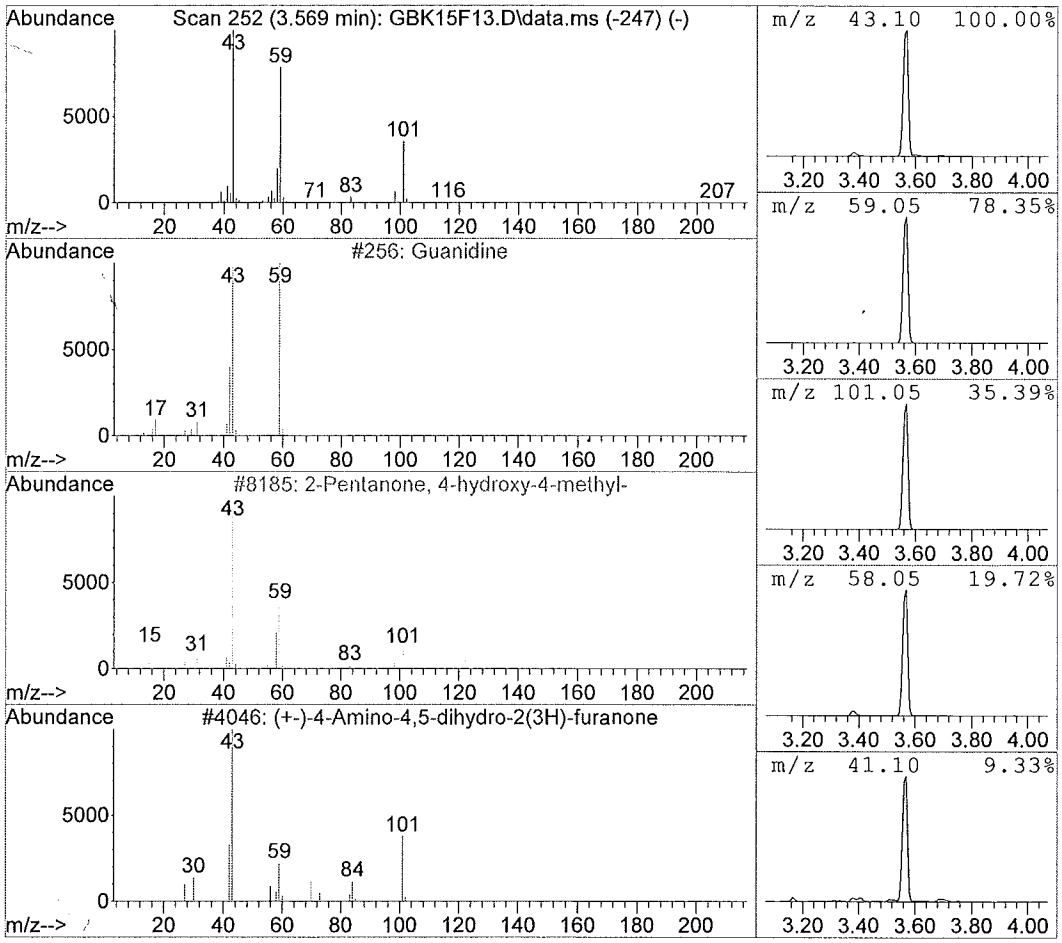
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK15F13.D Vial: 14
Acq On : 06/12/2015 23:42 Operator: DJC
Sample : 1515542013 F9M31 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.57	40.41 ug/ml	3405004	1,4-Dichlorobenzene-d4	1685151

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Guanidine	256	000113-00-8	47.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	32.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Morpholine, 4-methyl-	4076	000109-02-4	9.00

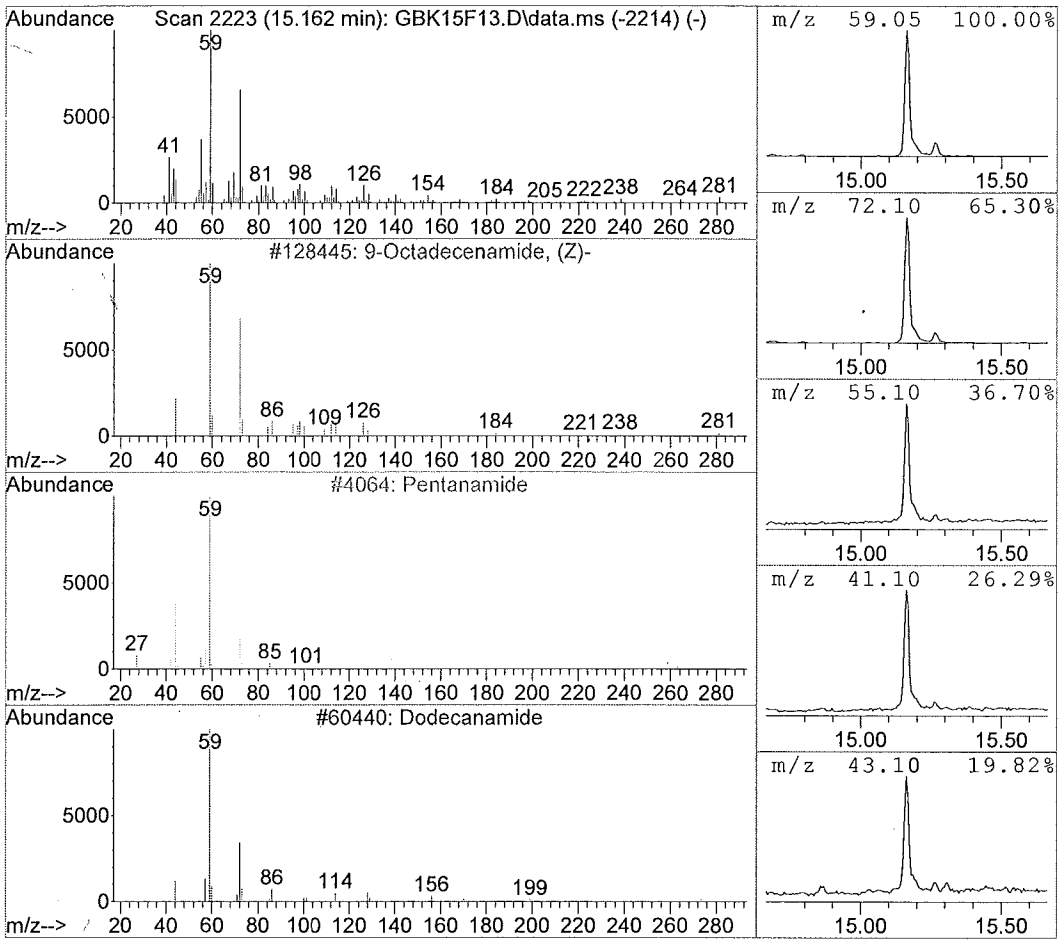


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK15F13.D Vial: 14
Acq On : 06/12/2015 23:42 Operator: DJC
Sample : 1515542013 F9M31 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.16	3.22 ug/ml	526978	Chrysene-d12	3276572

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	96.00
2	Pentanamide	4064	000626-97-1	53.00
3	Dodecanamide	60440	001120-16-7	53.00
4	Octanamide	20317	000629-01-6	50.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	47.00

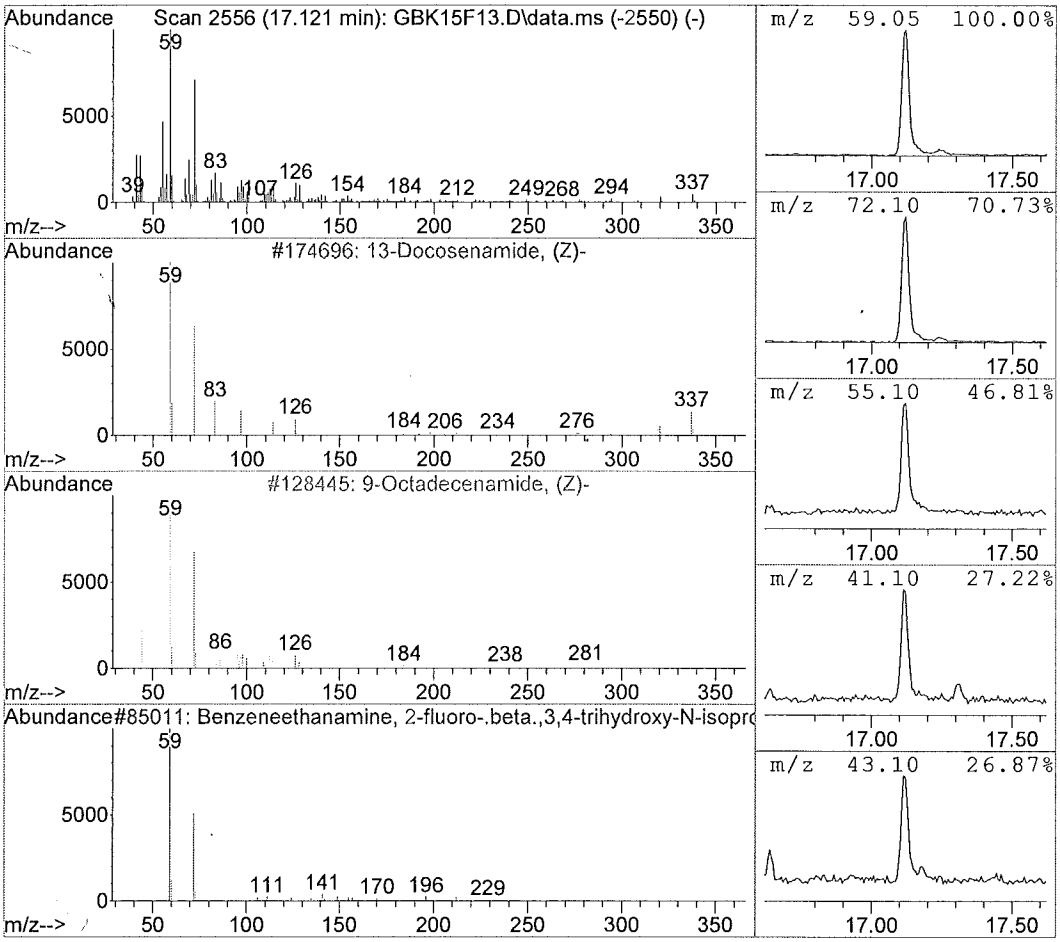


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK15F13.D Vial: 14
Acq On : 06/12/2015 23:42 Operator: DJC
Sample : 1515542013 F9M31 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.12	2.02 ug/ml	338844	Perylene-d12	3361526

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174696	000112-84-5	93.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	91.00
3	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	50.00
4	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	50.00
5	2-Hydroxy-2,4-dimethyl-hept-6-en-3-	29069	1000192-56-0	38.00

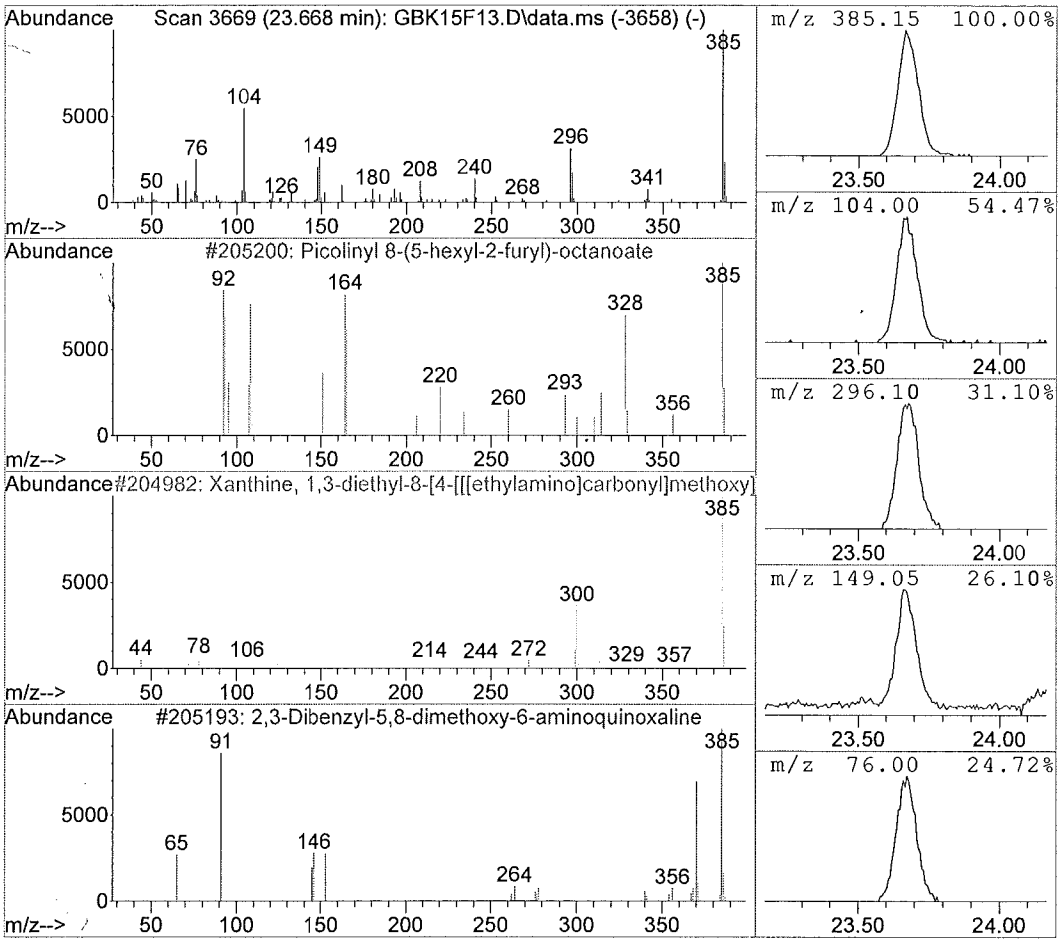


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK15F13.D Vial: 14
Acq On : 06/12/2015 23:42 Operator: DJC
Sample : 1515542013 F9M31 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.67	2.52 ug/ml	423772	Perylene-d12	3361526

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Picolinyl 8-(5-hexyl-2-furyl)-octan	205200	1000335-93-0	30.00
2	Xanthine, 1,3-diethyl-8-[4-[[[ethyl	204982	104576-48-9	27.00
3	2,3-Dibenzyl-5,8-dimethoxy-6-aminoq	205193	056393-28-3	12.00
4	dylchicine, 3-demethyl-	205036	007336-34-7	12.00
5	Silane, diethyl(2-methylpent-3-ylox	217344	1000363-78-6	12.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M32

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542014

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBK16F14

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2015

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	2000	U
108-95-2	Phenol	2000	U
111-44-4	Bis(2-chloroethyl)ether	2000	U
95-57-8	2-Chlorophenol	2000	U
95-48-7	2-Methylphenol	2000	U
108-60-1	2,2'-Oxybis(1-chloropropane)	2000	U
98-86-2	Acetophenone	2000	U
106-44-5	4-Methylphenol	2000	U
621-64-7	N-Nitroso-di-n-propylamine	2000	U
67-72-1	Hexachloroethane	2000	U
98-95-3	Nitrobenzene	2000	U
78-59-1	Isophorone	2000	U
88-75-5	2-Nitrophenol	2000	U
105-67-9	2,4-Dimethylphenol	2000	U
111-91-1	Bis(2-chloroethoxy)methane	2000	U
120-83-2	2,4-Dichlorophenol	2000	U
91-20-3	Naphthalene	2000	U
106-47-8	4-Chloroaniline	2000	U
87-68-3	Hexachlorobutadiene	2000	U
105-60-2	Caprolactam	2000	U
59-50-7	4-Chloro-3-methylphenol	2000	U
91-57-6	2-Methylnaphthalene	2000	U
77-47-4	Hexachlorocyclopentadiene	2000	U
88-06-2	2,4,6-Trichlorophenol	2000	U
95-95-4	2,4,5-Trichlorophenol	2000	U
92-52-4	1,1'-Biphenyl	2000	U
91-58-7	2-Chloronaphthalene	2000	U
88-74-4	2-Nitroaniline	3800	U
131-11-3	Dimethylphthalate	2000	U
606-20-2	2,6-Dinitrotoluene	2000	U
208-96-8	Acenaphthylene	2000	U
99-09-2	3-Nitroaniline	3800	U
83-32-9	Acenaphthene	2000	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M32

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542014

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBK16F14

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2015

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	3800	U
100-02-7	4-Nitrophenol	3800	U
132-64-9	Dibenzofuran	2000	U
121-14-2	2,4-Dinitrotoluene	2000	U
84-66-2	Diethylphthalate	2000	U
86-73-7	Fluorene	2000	U
7005-72-3	4-Chlorophenyl-phenylether	2000	U
100-01-6	4-Nitroaniline	3800	U
534-52-1	4,6-Dinitro-2-methylphenol	3800	U
86-30-6	N-Nitrosodiphenylamine[1]	2000	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2000	U
101-55-3	4-Bromophenyl-phenylether	2000	U
118-74-1	Hexachlorobenzene	2000	U
1912-24-9	Atrazine	2000	U
87-86-5	Pentachlorophenol	3800	U
85-01-8	Phenanthrene	2000	U
120-12-7	Anthracene	2000	U
86-74-8	Carbazole	2000	U
84-74-2	Di-n-butylphthalate	2000	U
206-44-0	Fluoranthene	2000	U
129-00-0	Pyrene	2000	U
85-68-7	Butylbenzylphthalate	2000	U
91-94-1	3,3'-Dichlorobenzidine	2000	U
56-55-3	Benzo(a)anthracene	2000	U
218-01-9	Chrysene	2000	U
117-81-7	Bis(2-ethylhexyl)phthalate	2000	U
117-84-0	Di-n-octylphthalate	2000	U
205-99-2	Benzo(b)fluoranthene	2000	U
207-08-9	Benzo(k)fluoranthene	2000	U
50-32-8	Benzo(a)pyrene	2000	U
193-39-5	Indeno(1,2,3-cd)pyrene	2000	U
53-70-3	Dibenzo(a,h)anthracene	2000	U
191-24-2	Benzo(g,h,i)perylene	2000	U
58-90-2	2,3,4,6-Tetrachlorophenol	2000	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M32

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542014
Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBK16F14
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2015
GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 10.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.56	9700	JB
02	301-02-0	9-Octadecenamide, (Z)-	15.16	1500	JNB
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[2]	Total Alkanes	N/A		

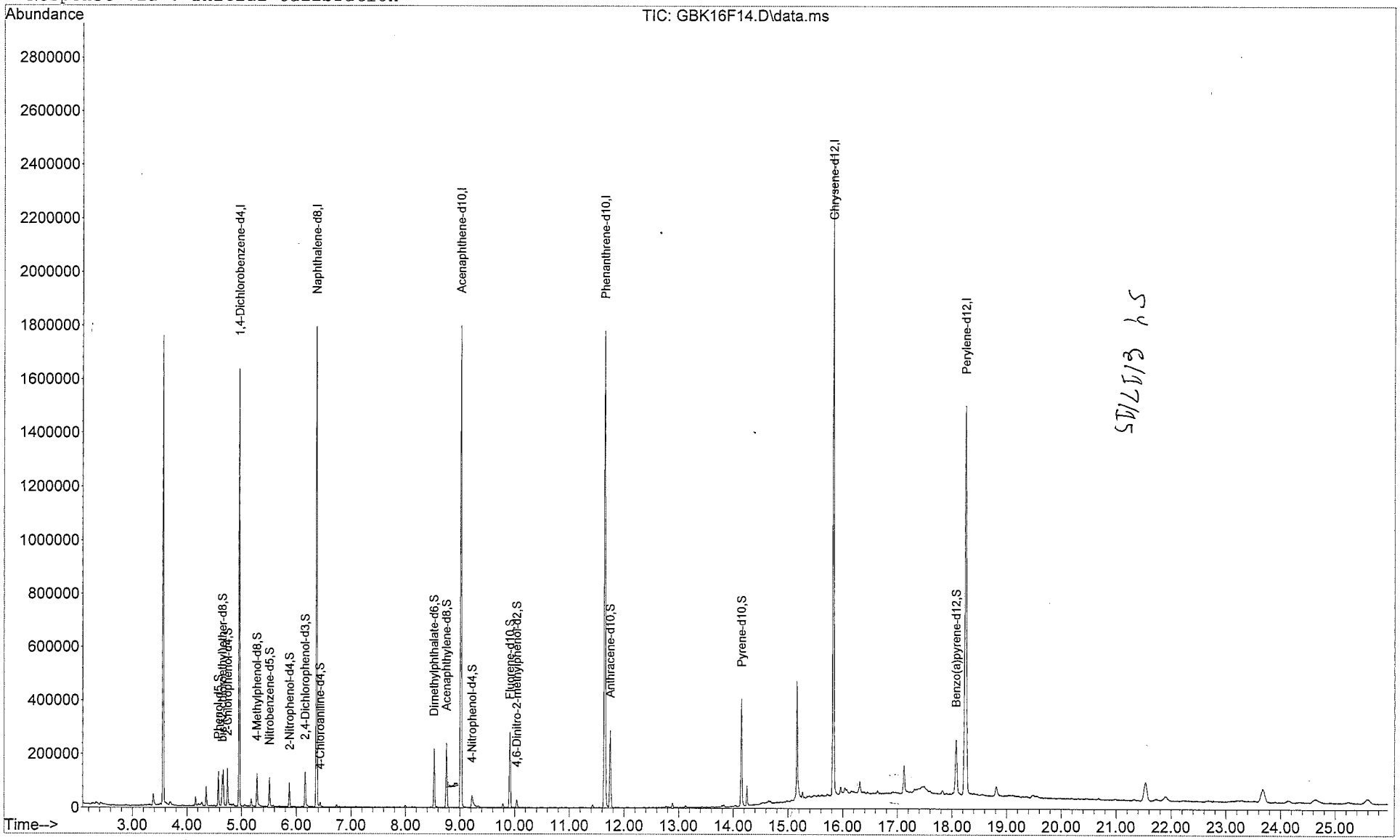
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK16F14.D Vial: 15
Acq On : 06/13/2015 00:14 Operator: DJC
Sample : 1515542014 F9M32 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 13 00:40:43 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK16F14.D Vial: 15
Acq On : 06/13/2015 00:14 Operator: DJC
Sample : 1515542014 F9M32 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 13 00:40:43 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	285487	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1066796	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	627258	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1075210	20.00 ug/ml
73) Chrysene-d12	15.83	240	1087598	20.00 ug/ml
81) Perylene-d12	18.25	264	1059003	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	51649	2.594ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	22449	1.842ug/mL
7) 2-Chlorophenol-d4	4.74	132	48312	2.472ug/ml
13) 4-Methylphenol-d8	5.28	113	36451	2.352ug/mL
17) Nitrobenzene-d5	5.51	128	20396	2.279ug/ml
21) 2-Nitrophenol-d4	5.87	143	23996	2.406ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	43631	2.986ug/mL
28) 4-Chloroaniline-d4	6.43	131	8122	0.512ug/mL
42) Dimethylphthalate-d6	8.53	166	138938	3.642ug/mL
45) Acenaphthylene-d8	8.75	160	167549	3.291ug/mL
50) 4-Nitrophenol-d4	9.22	143	24327	2.995ug/mL
57) Fluorene-d10	9.92	176	118879	3.588ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	8556	1.211ug/mL
69) Anthracene-d10	11.75	188	189779	3.489ug/mL
75) Pyrene-d10	14.15	212	175831	3.556ug/mL
86) Benzo(a)pyrene-d12	18.07	264	146159	3.043ug/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)\12JUN15\GBK16F14.D Vial: 15
Acq On : 06/13/2015 00:14 Operator: DJC
Sample : 1515542014 F9M32 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 13 00:40:43 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 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)

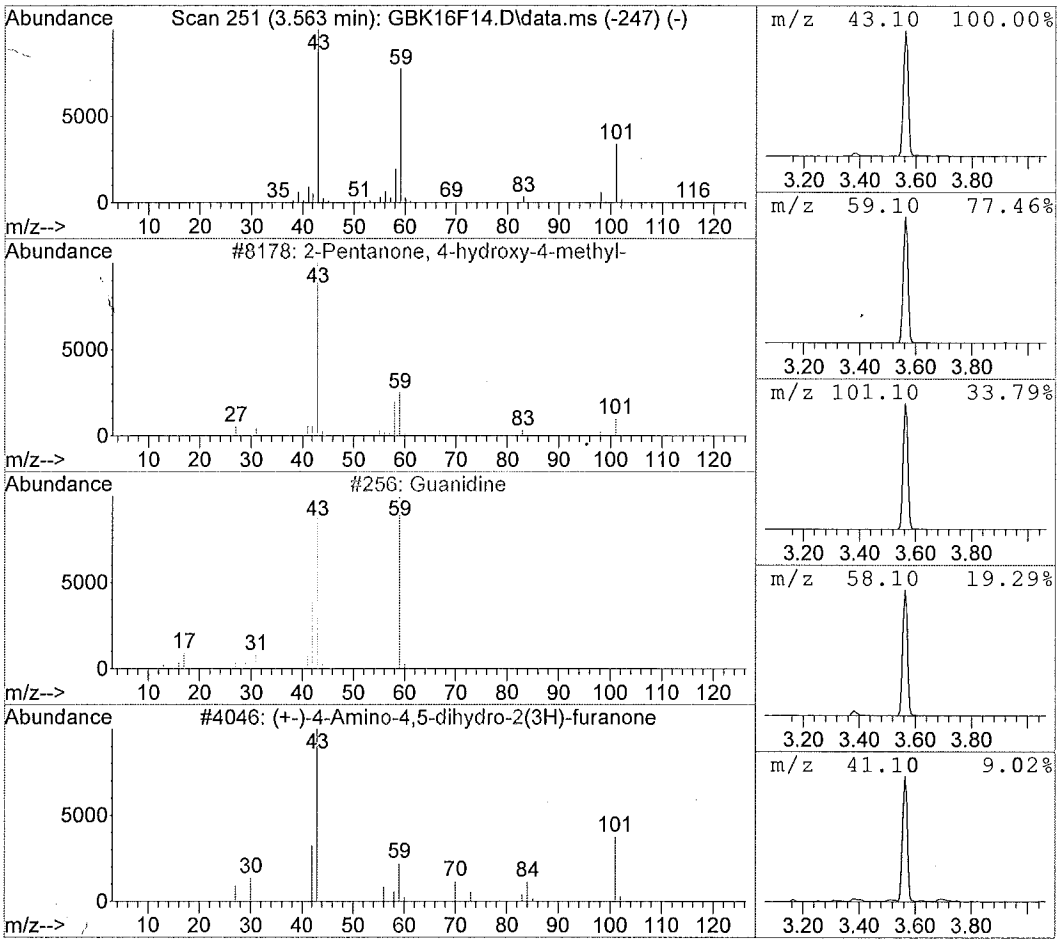
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK16F14.D Vial: 15
Acq On : 06/13/2015 00:14 Operator: DJC
Sample : 1515542014 F9M32 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.56	25.12 ug/ml	1996470	1,4-Dichlorobenzene-d4	1589527

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	47.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Acetone	214	000067-64-1	9.00



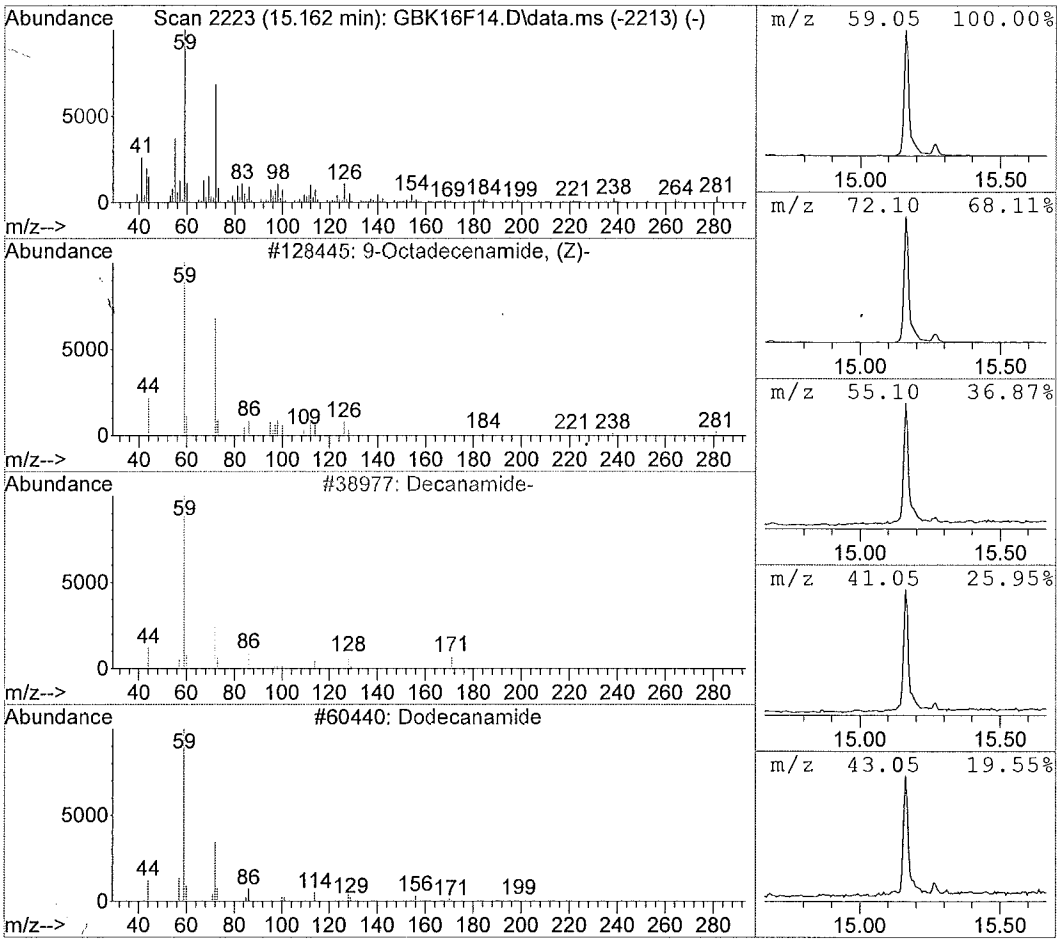
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK16F14.D Vial: 15
Acq On : 06/13/2015 00:14 Operator: DJC
Sample : 1515542014 F9M32 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.16	4.01 ug/ml	619281	Chrysene-d12	3091663

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Decanamide-	38977	002319-29-1	50.00
3	Dodecanamide	60440	001120-16-7	50.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	50.00
5	Octanamide	20317	000629-01-6	50.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M33

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542015

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GBK17F15

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2015

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	950	U
108-95-2	Phenol	950	U
111-44-4	Bis(2-chloroethyl)ether	950	U
95-57-8	2-Chlorophenol	950	U
95-48-7	2-Methylphenol	950	U
108-60-1	2,2'-Oxybis(1-chloropropane)	950	U
98-86-2	Acetophenone	950	U
106-44-5	4-Methylphenol	950	U
621-64-7	N-Nitroso-di-n-propylamine	950	U
67-72-1	Hexachloroethane	950	U
98-95-3	Nitrobenzene	950	U
78-59-1	Isophorone	950	U
88-75-5	2-Nitrophenol	950	U
105-67-9	2,4-Dimethylphenol	950	U
111-91-1	Bis(2-chloroethoxy)methane	950	U
120-83-2	2,4-Dichlorophenol	950	U
91-20-3	Naphthalene	950	U
106-47-8	4-Chloroaniline	950	U
87-68-3	Hexachlorobutadiene	950	U
105-60-2	Caprolactam	950	U
59-50-7	4-Chloro-3-methylphenol	950	U
91-57-6	2-Methylnaphthalene	950	U
77-47-4	Hexachlorocyclopentadiene	950	U
88-06-2	2,4,6-Trichlorophenol	950	U
95-95-4	2,4,5-Trichlorophenol	950	U
92-52-4	1,1'-Biphenyl	950	U
91-58-7	2-Chloronaphthalene	950	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	950	U
606-20-2	2,6-Dinitrotoluene	950	U
208-96-8	Acenaphthylene	950	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	950	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F9M33

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542015
Sample wt/vol: 30.4 (g/mL) g Lab File ID: GBK17F15
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 12. Decanted: (Y/N) N Date Received: 06/03/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2015
GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	950	U
121-14-2	2,4-Dinitrotoluene	950	U
84-66-2	Diethylphthalate	950	U
86-73-7	Fluorene	950	U
7005-72-3	4-Chlorophenyl-phenylether	950	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine[1]	950	U
95-94-3	1,2,4,5-Tetrachlorobenzene	950	U
101-55-3	4-Bromophenyl-phenylether	950	U
118-74-1	Hexachlorobenzene	950	U
1912-24-9	Atrazine	950	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	950	U
120-12-7	Anthracene	950	U
86-74-8	Carbazole	950	U
84-74-2	Di-n-butylphthalate	950	U
206-44-0	Fluoranthene	950	U
129-00-0	Pyrene	950	U
85-68-7	Butylbenzylphthalate	950	U
91-94-1	3,3'-Dichlorobenzidine	950	U
56-55-3	Benzo(a)anthracene	950	U
218-01-9	Chrysene	950	U
117-81-7	Bis(2-ethylhexyl)phthalate	950	U
117-84-0	Di-n-octylphthalate	950	U
205-99-2	Benzo(b)fluoranthene	950	U
207-08-9	Benzo(k)fluoranthene	950	U
50-32-8	Benzo(a)pyrene	950	U
193-39-5	Indeno(1,2,3-cd)pyrene	950	U
53-70-3	Dibenzo(a,h)anthracene	950	U
191-24-2	Benzo(g,h,i)perylene	950	U
58-90-2	2,3,4,6-Tetrachlorophenol	950	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9M33

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542015

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GBK17F15

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2015

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 5.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.57	11000	JB
02	301-02-0	9-Octadecenamide, (Z)-	15.16	1100	JNB
03	301-02-0	9-Octadecenamide, (Z)-	17.12	490	JN
04		Unknown Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	21.53	540	J
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[2]	Total Alkanes	N/A	500	J

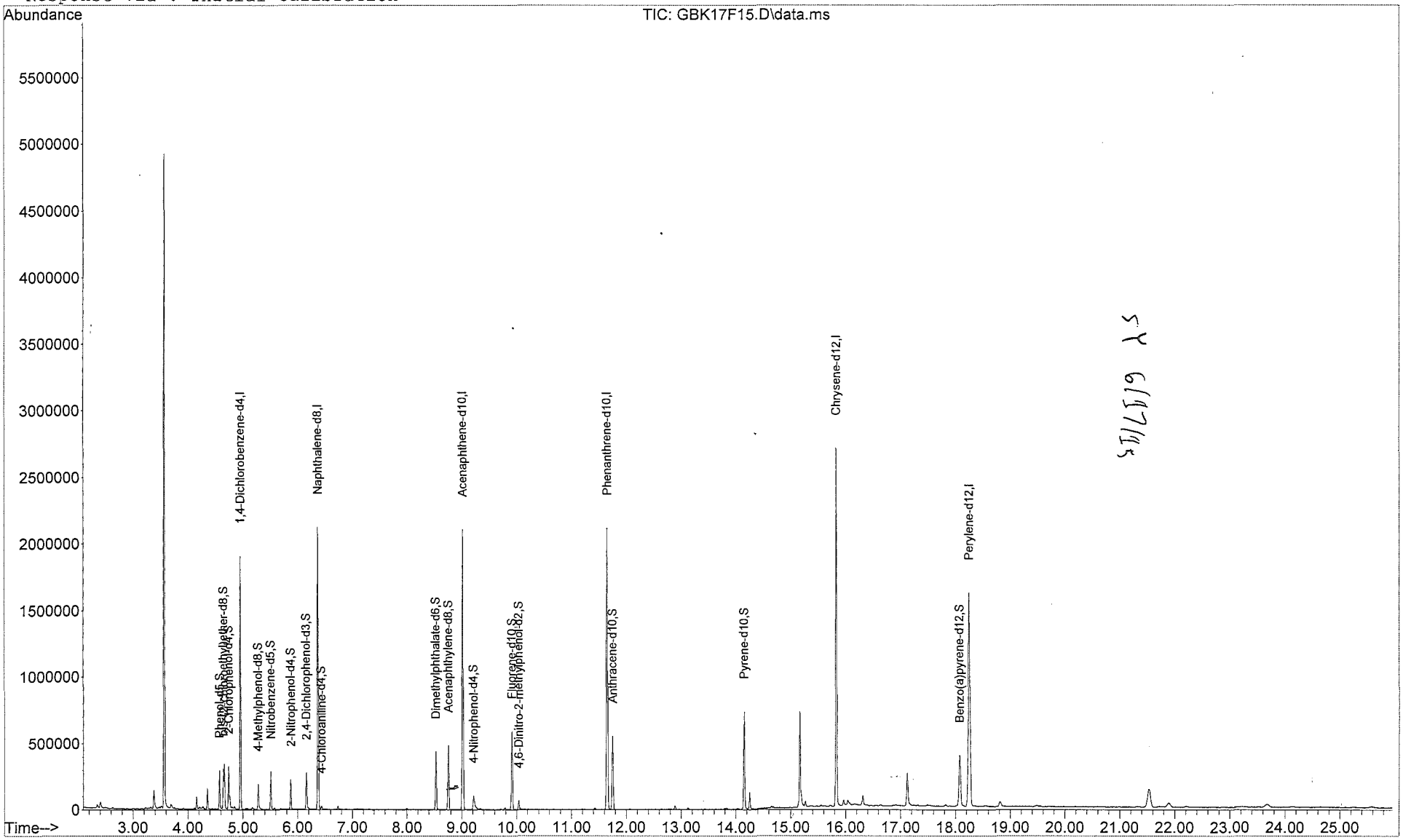
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK17F15.D Vial: 16
Acq On : 06/13/2015 00:46 Operator: DJC
Sample : 1515542015 F9M33 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 13 01:12:35 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK17F15.D Vial: 16
Acq On : 06/13/2015 00:46 Operator: DJC
Sample : 1515542015 F9M33 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 13 01:12:35 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	339227	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1268694	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	737358	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1218352	20.00 ug/ml
73) Chrysene-d12	15.83	240	1190036	20.00 ug/ml
81) Perylene-d12	18.25	264	1189633	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	115468	4.881ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	62516	4.316ug/mL
7) 2-Chlorophenol-d4	4.74	132	113758	4.898ug/ml
13) 4-Methylphenol-d8	5.28	113	55986	3.040ug/mL
17) Nitrobenzene-d5	5.51	128	55232	5.189ug/ml
21) 2-Nitrophenol-d4	5.87	143	61528	5.187ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	87518	5.036ug/mL
28) 4-Chloroaniline-d4	6.43	131	12603	0.669ug/mL
42) Dimethylphthalate-d6	8.53	166	288884	6.442ug/mL
45) Acenaphthylene-d8	8.76	160	333031	5.565ug/mL
50) 4-Nitrophenol-d4	9.22	143	52048	5.450ug/mL
57) Fluorene-d10	9.92	176	239925	6.160ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	18703	2.337ug/mL
69) Anthracene-d10	11.75	188	367524	5.963ug/mL
75) Pyrene-d10	14.15	212	335136	6.195ug/mL
86) Benzo(a)pyrene-d12	18.07	264	282269	5.231ug/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)\12JUN15\GBK17F15.D Vial: 16
Acq On : 06/13/2015 00:46 Operator: DJC
Sample : 1515542015 F9M33 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 13 01:12:35 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 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)

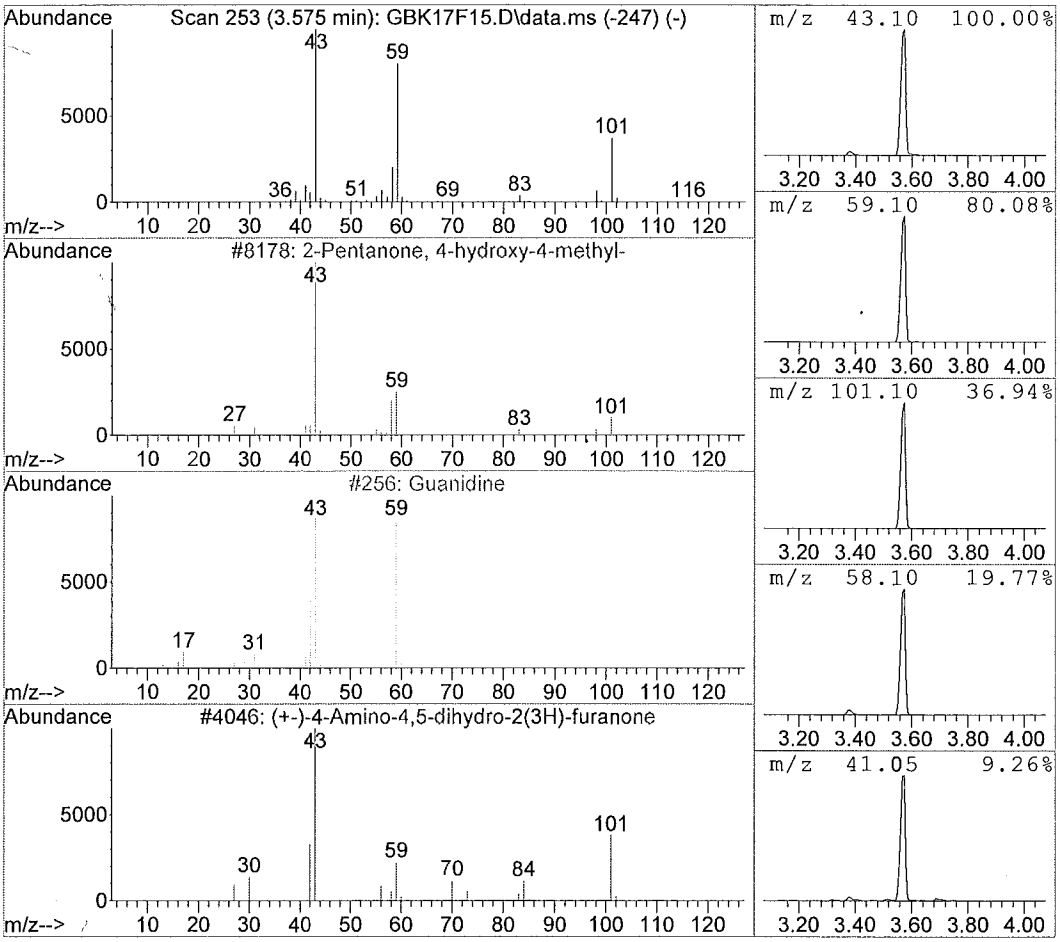
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK17F15.D Vial: 16
Acq On : 06/13/2015 00:46 Operator: DJC
Sample : 1515542015 F9M33 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.57	59.75 ug/ml	5626376	1,4-Dichlorobenzene-d4	1883224

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	47.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Acetone	217	000067-64-1	9.00

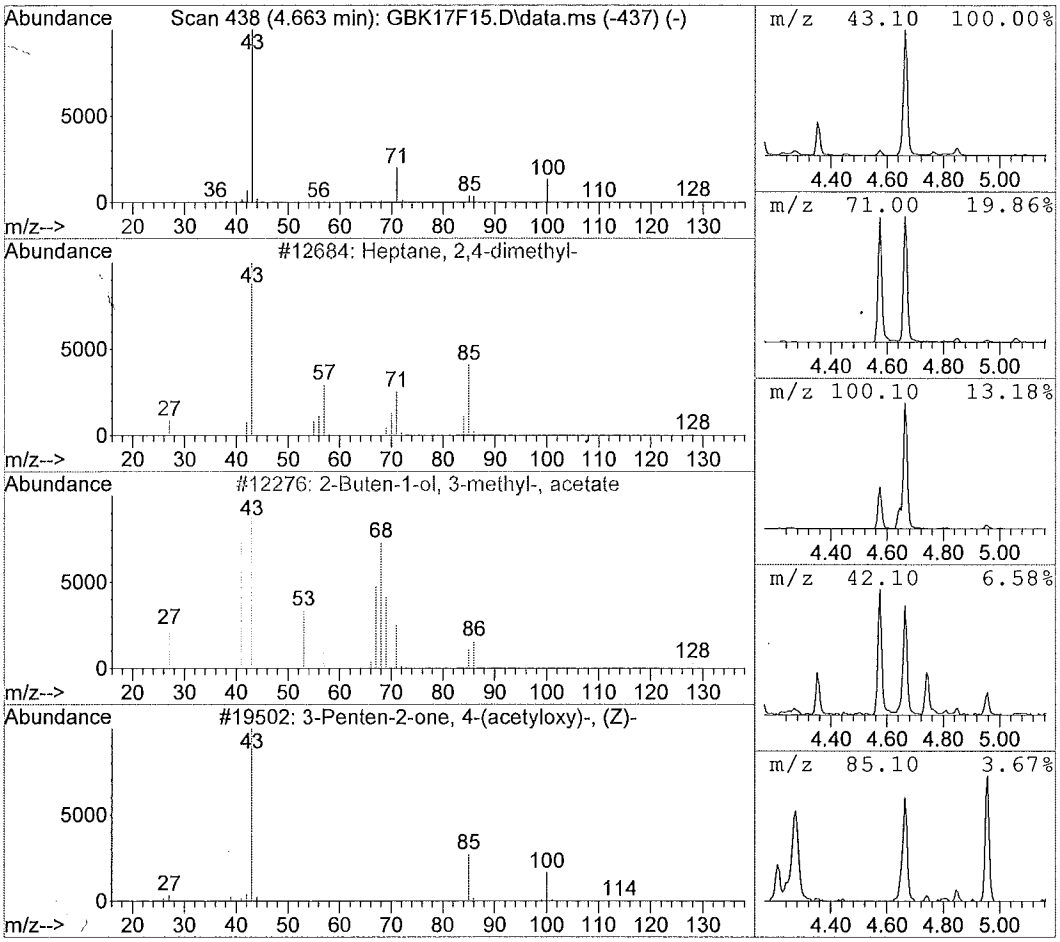


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK17F15.D Vial: 16
Acq On : 06/13/2015 00:46 Operator: DJC
Sample : 1515542015 F9M33 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.66	2.68 ug/ml	251907	1,4-Dichlorobenzene-d4	1883224

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,4-dimethyl-	12684	002213-23-2	42.00
2	2-Buten-1-ol, 3-methyl-, acetate	12276	001191-16-8	9.00
3	3-Penten-2-one, 4-(acetyloxy)-, (Z)	19502	038365-58-1	9.00
4	3-Hexanone, 5-hydroxy-2-methyl-	13493	059357-07-2	9.00
5	Acetylacetone	3662	000123-54-6	7.00

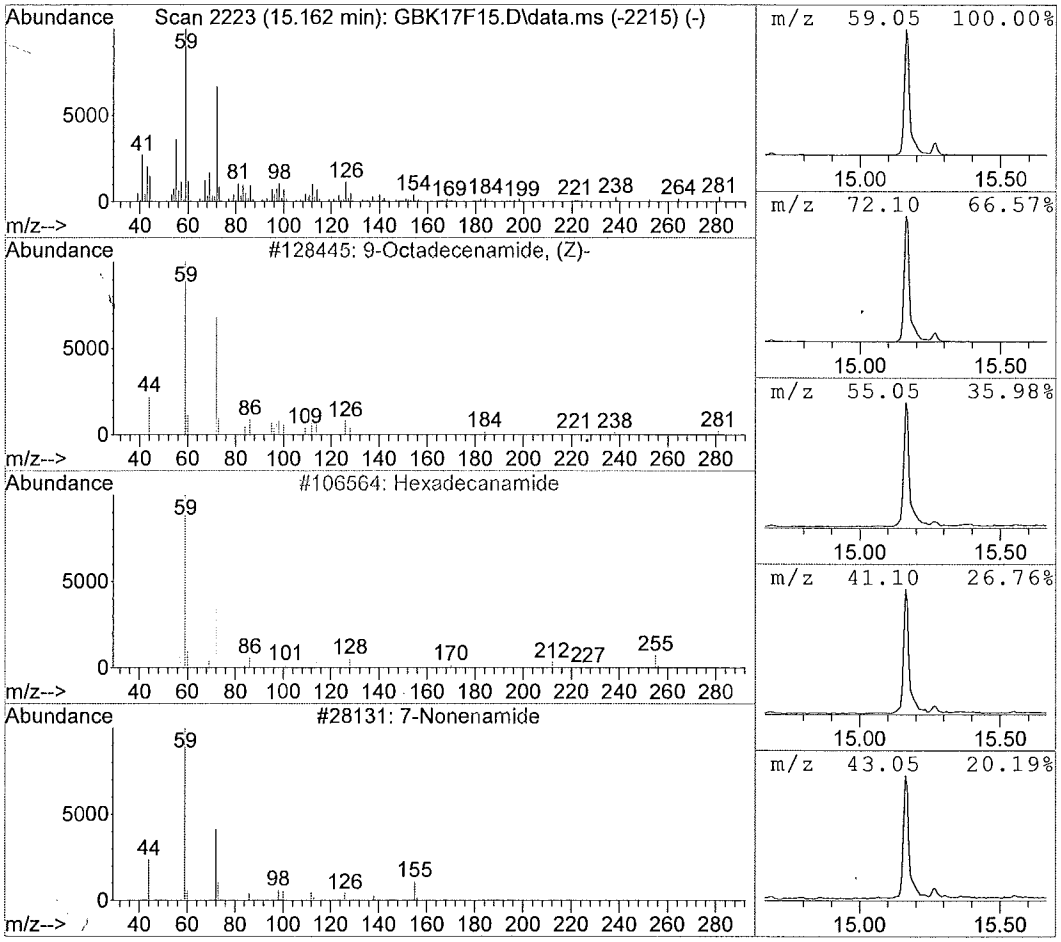


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK17F15.D Vial: 16
Acq On : 06/13/2015 00:46 Operator: DJC
Sample : 1515542015 F9M33 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.16	6.08 ug/ml	1040076	Chrysene-d12	3423038

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Hexadecanamide	106564	000629-54-9	64.00
3	7-Nonenamide	28131	090949-53-4	56.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	45.00
5	Octanamide	20317	000629-01-6	45.00

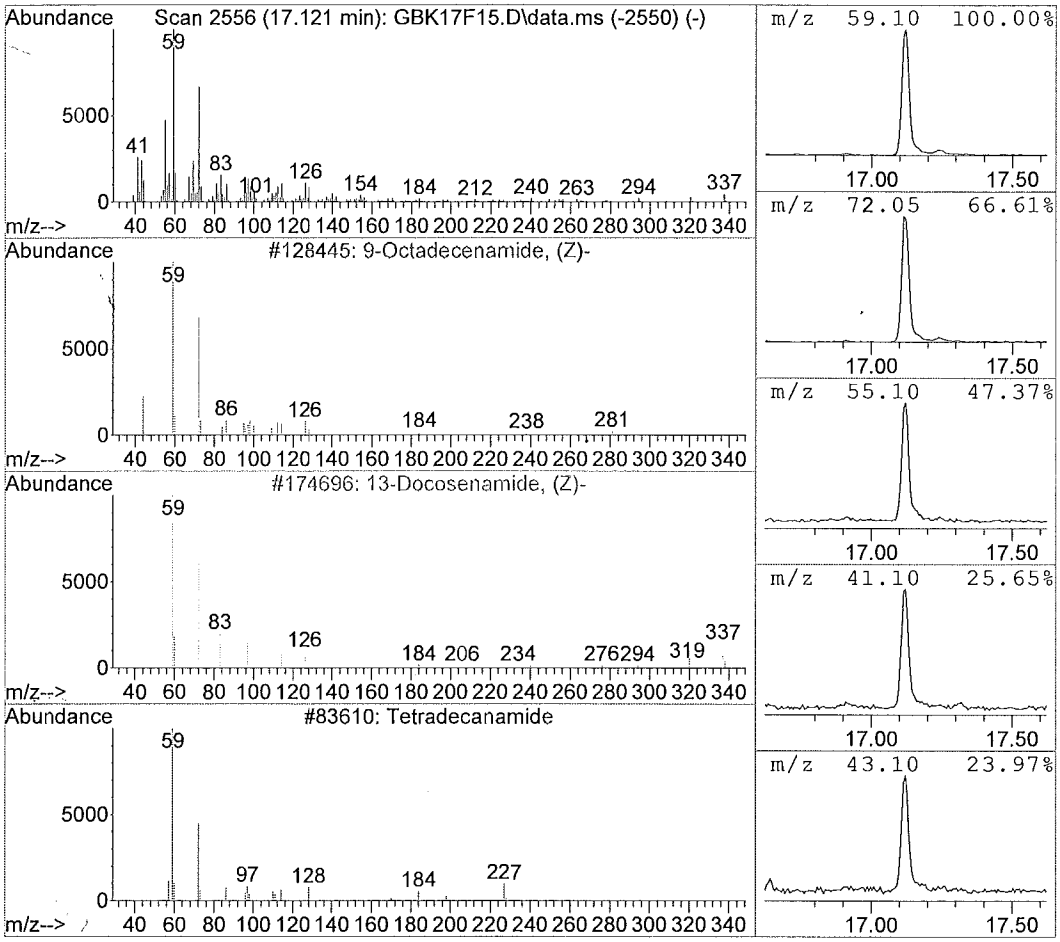


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK17F15.D Vial: 16
Acq On : 06/13/2015 00:46 Operator: DJC
Sample : 1515542015 F9M33 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.12	2.64 ug/ml	465715	Perylene-d12	3530536

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	91.00
2	13-Docosenamide, (Z)-	174696	000112-84-5	83.00
3	Tetradecanamide	83610	000638-58-4	72.00
4	Dodecanamide	60440	001120-16-7	50.00
5	2-Methyl-tridecane-2,12-diol	86147	1000187-03-5	38.00

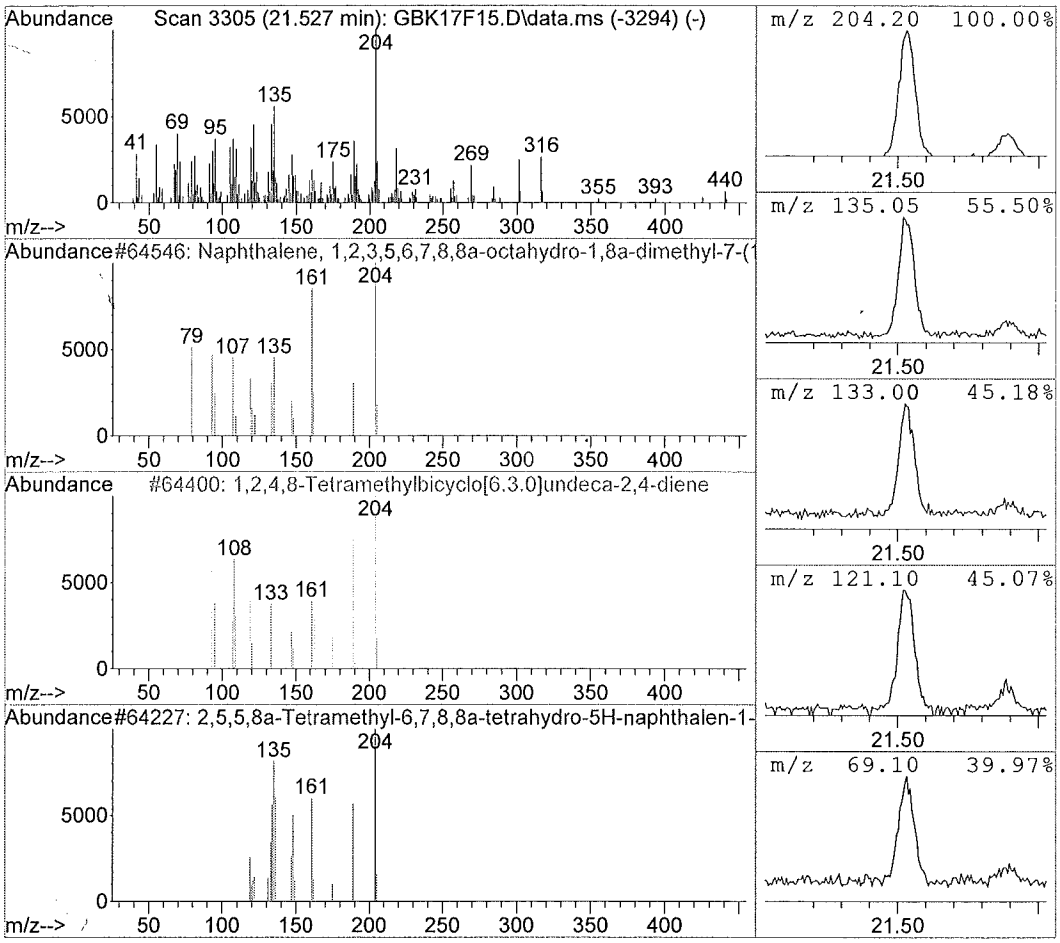


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK17F15.D Vial: 16
Acq On : 06/13/2015 00:46 Operator: DJC
Sample : 1515542015 F9M33 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.53	2.92 ug/ml	514728	Perylene-d12	3530536

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	78.00
2	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	64.00
3	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	45.00
4	1,1,4a-Trimethyl-5,6-dimethylenedec	64407	1000193-60-8	45.00
5	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	41.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M34

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542016

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBK18F16

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	2100	U
108-95-2	Phenol	2100	U
111-44-4	Bis(2-chloroethyl)ether	2100	U
95-57-8	2-Chlorophenol	2100	U
95-48-7	2-Methylphenol	2100	U
108-60-1	2,2'-Oxybis(1-chloropropane)	2100	U
98-86-2	Acetophenone	2100	U
106-44-5	4-Methylphenol	2100	U
621-64-7	N-Nitroso-di-n-propylamine	2100	U
67-72-1	Hexachloroethane	2100	U
98-95-3	Nitrobenzene	2100	U
78-59-1	Isophorone	2100	U
88-75-5	2-Nitrophenol	2100	U
105-67-9	2,4-Dimethylphenol	2100	U
111-91-1	Bis(2-chloroethoxy)methane	2100	U
120-83-2	2,4-Dichlorophenol	2100	U
91-20-3	Naphthalene	2100	U
106-47-8	4-Chloroaniline	2100	U
87-68-3	Hexachlorobutadiene	2100	U
105-60-2	Caprolactam	2100	U
59-50-7	4-Chloro-3-methylphenol	2100	U
91-57-6	2-Methylnaphthalene	2100	U
77-47-4	Hexachlorocyclopentadiene	2100	U
88-06-2	2,4,6-Trichlorophenol	2100	U
95-95-4	2,4,5-Trichlorophenol	2100	U
92-52-4	1,1'-Biphenyl	2100	U
91-58-7	2-Chloronaphthalene	2100	U
88-74-4	2-Nitroaniline	4000	U
131-11-3	Dimethylphthalate	2100	U
606-20-2	2,6-Dinitrotoluene	2100	U
208-96-8	Acenaphthylene	2100	U
99-09-2	3-Nitroaniline	4000	U
83-32-9	Acenaphthene	2100	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M34

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542016

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBK18F16

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	4000	U
100-02-7	4-Nitrophenol	4000	U
132-64-9	Dibenzofuran	2100	U
121-14-2	2,4-Dinitrotoluene	2100	U
84-66-2	Diethylphthalate	2100	U
86-73-7	Fluorene	2100	U
7005-72-3	4-Chlorophenyl-phenylether	2100	U
100-01-6	4-Nitroaniline	4000	U
534-52-1	4,6-Dinitro-2-methylphenol	4000	U
86-30-6	N-Nitrosodiphenylamine[1]	2100	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2100	U
101-55-3	4-Bromophenyl-phenylether	2100	U
118-74-1	Hexachlorobenzene	2100	U
1912-24-9	Atrazine	2100	U
87-86-5	Pentachlorophenol	4000	U
85-01-8	Phenanthrene	2100	U
120-12-7	Anthracene	2100	U
86-74-8	Carbazole	2100	U
84-74-2	Di-n-butylphthalate	2100	U
206-44-0	Fluoranthene	2100	U
129-00-0	Pyrene	2100	U
85-68-7	Butylbenzylphthalate	2100	U
91-94-1	3,3'-Dichlorobenzidine	2100	U
56-55-3	Benzo(a)anthracene	2100	U
218-01-9	Chrysene	2100	U
117-81-7	Bis(2-ethylhexyl)phthalate	160	J
117-84-0	Di-n-octylphthalate	2100	U
205-99-2	Benzo(b)fluoranthene	2100	U
207-08-9	Benzo(k)fluoranthene	2100	U
50-32-8	Benzo(a)pyrene	2100	U
193-39-5	Indeno(1,2,3-cd)pyrene	2100	U
53-70-3	Dibenzo(a,h)anthracene	2100	U
191-24-2	Benzo(g,h,i)perylene	2100	U
58-90-2	2,3,4,6-Tetrachlorophenol	2100	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M34

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542016
Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBK18F16
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2015
GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 10.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.56	17000	JB
02	301-02-0	9-Octadecenamide, (Z)-	15.16	2200	JNB
03		Unknown Phthalic anhydride	18.82	4300	J
04		Unknown Hexadecanoic acid, 4-nitrophenyl ester	21.73	1100	J
05		Unknown Picolinyl 8-(5-hexyl-2-furyl)-octanoate	23.69	5300	J
06		Unknown 9-Thiabicyclo[3.3.1]nonane, 2,6-bis(1H-i	24.14	830	J
07		Unknown Octadecanoic acid, ethenyl ester	25.24	880	J
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

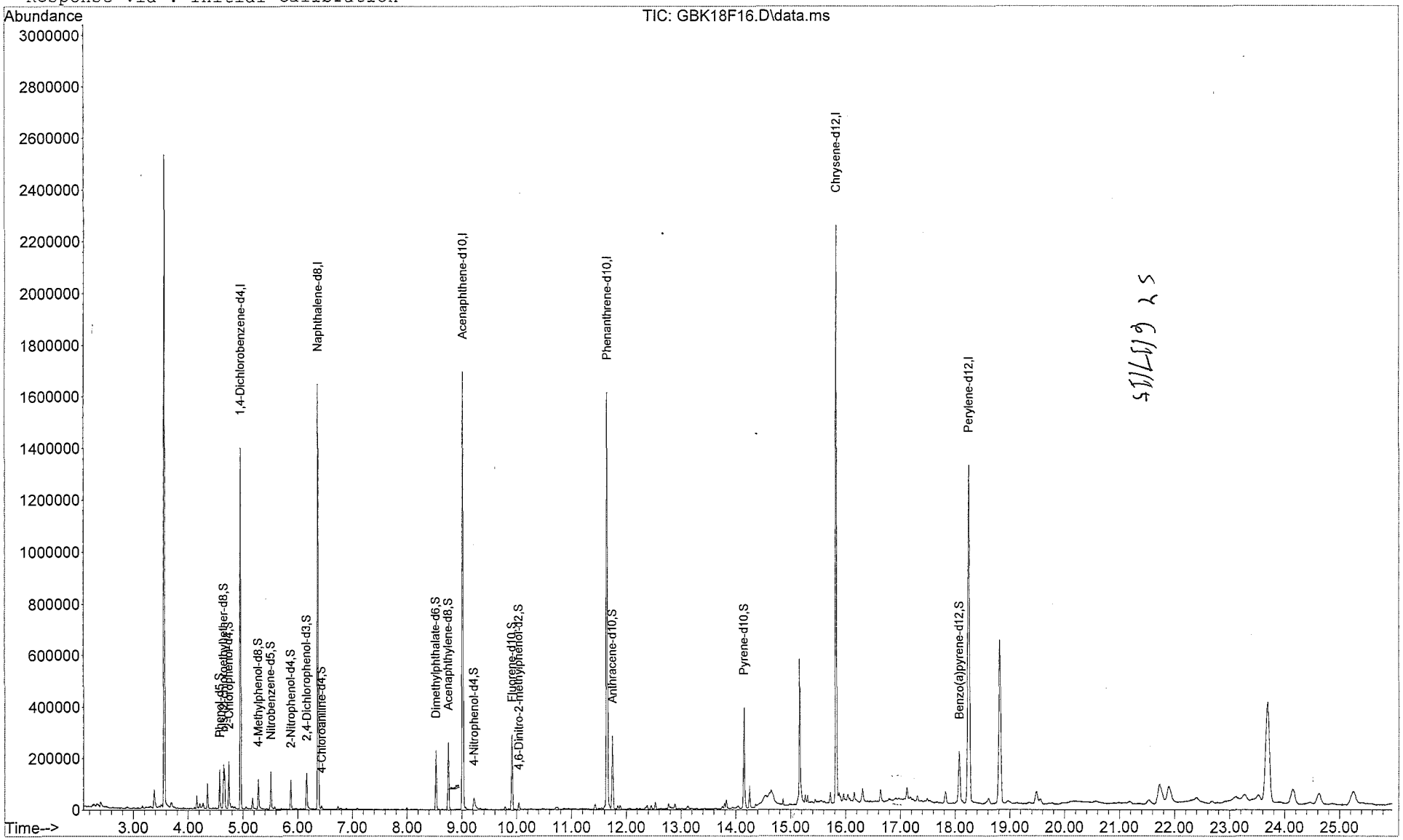
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK18F16.D Vial: 17
Acq On : 06/13/2015 01:18 Operator: DJC
Sample : 1515542016 F9M34 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 13 01:44:37 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK18F16.D Vial: 17
Acq On : 06/13/2015 01:18 Operator: DJC
Sample : 1515542016 F9M34 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 13 01:44:37 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	255985	20.00 ug/ml
16) Naphthalene-d8	6.37	136	981610	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	582888	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	989531	20.00 ug/ml
73) Chrysene-d12	15.83	240	1013519	20.00 ug/ml
81) Perylene-d12	18.25	264	987945	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.58	99	59517	3.334ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	33593	3.073ug/mL
7) 2-Chlorophenol-d4	4.74	132	61357	3.501ug/ml
13) 4-Methylphenol-d8	5.28	113	33007	2.375ug/mL
17) Nitrobenzene-d5	5.51	128	28441	3.453ug/ml
21) 2-Nitrophenol-d4	5.87	143	30868	3.363ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	46327	3.446ug/mL
28) 4-Chloroaniline-d4	6.44	131	6503	0.446ug/mL
42) Dimethylphthalate-d6	8.53	166	144290	4.070ug/mL
45) Acenaphthylene-d8	8.75	160	174375	3.686ug/mL
50) 4-Nitrophenol-d4	9.22	143	25418	3.367ug/mL
57) Fluorene-d10	9.92	176	123029	3.996ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	6926	1.066ug/mL
69) Anthracene-d10	11.75	188	186326	3.722ug/mL
75) Pyrene-d10	14.15	212	172314	3.740ug/mL
86) Benzo(a)pyrene-d12	18.07	264	144099	3.216ug/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)

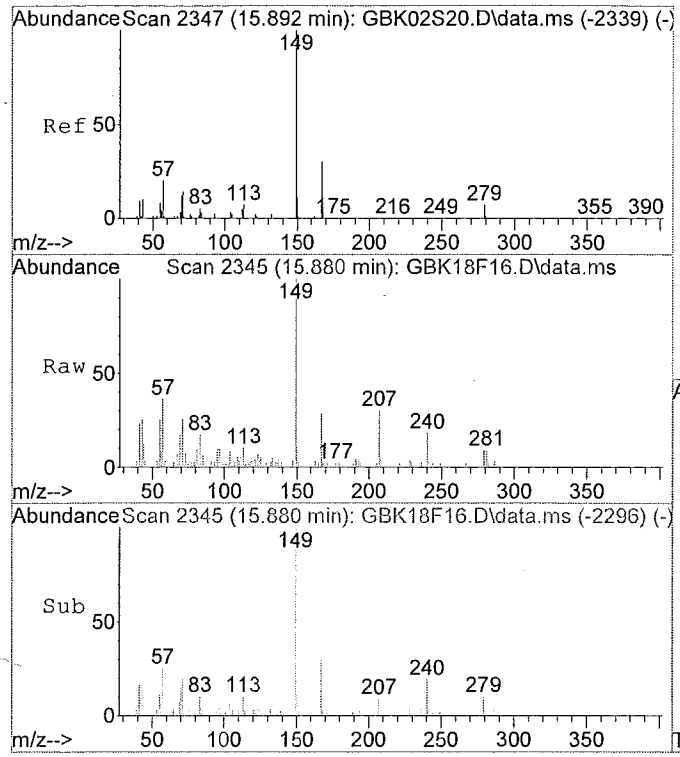
Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK18F16.D Vial: 17
Acq On : 06/13/2015 01:18 Operator: DJC
Sample : 1515542016 F9M34 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 13 01:44:37 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 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	15.88	149	19593	0.401ug/ml	82
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	

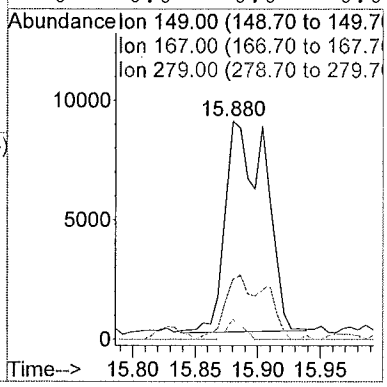
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#80
Bis-(2-ethylhexyl)phthalate
Concen: 0.40 ug/ml
RT: 15.88 min Scan# 2345
Delta R.T. -0.01 min
Lab File: GBK18F16.D
Acq: 06/13/2015 01:18

Tgt Ion:149 Resp: 19593

Ion	Ratio	Lower	Upper
149	100		
167	20.4	22.0	40.8#
279	3.7	5.0	9.2#
0	0.0	0.0	0.0



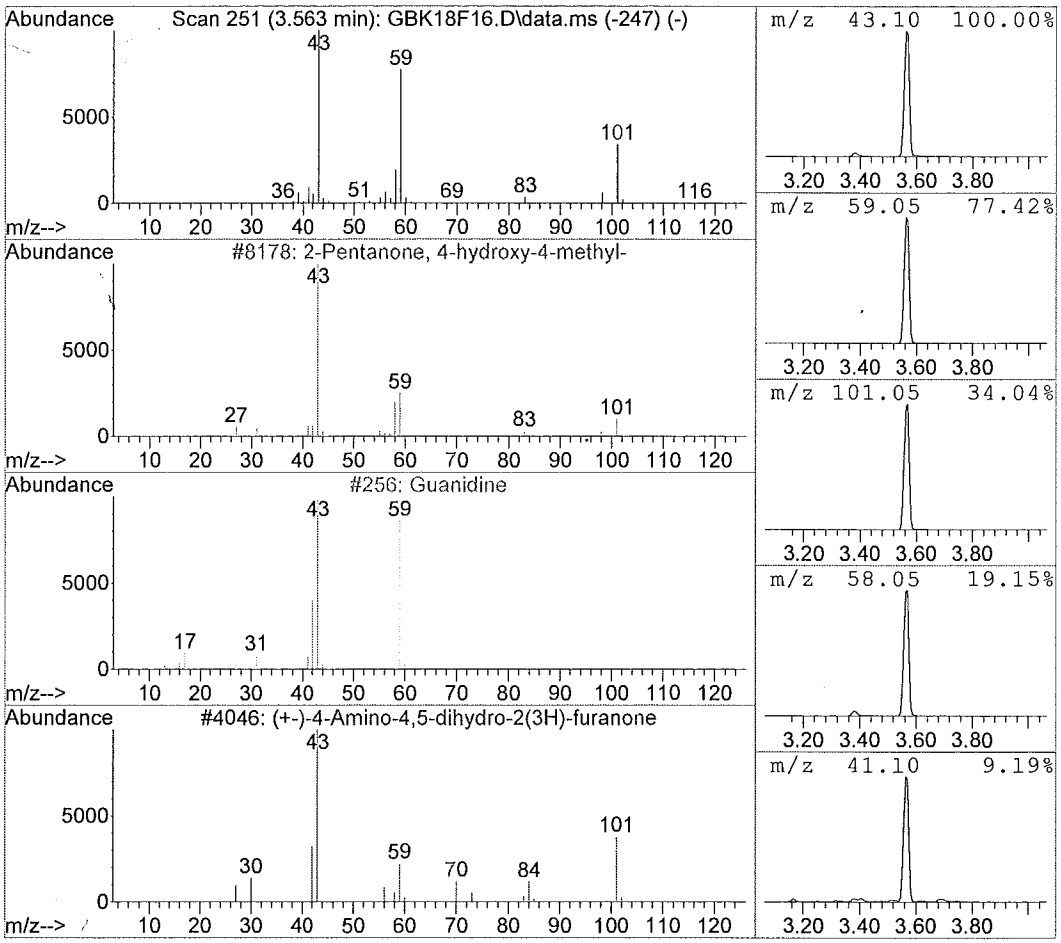
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK18F16.D Vial: 17
Acq On : 06/13/2015 01:18 Operator: DJC
Sample : 1515542016 F9M34 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.56	42.90 ug/ml	3043031	1,4-Dichlorobenzene-d4	1418622

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	47.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Morpholine, 4-methyl-	4076	000109-02-4	9.00

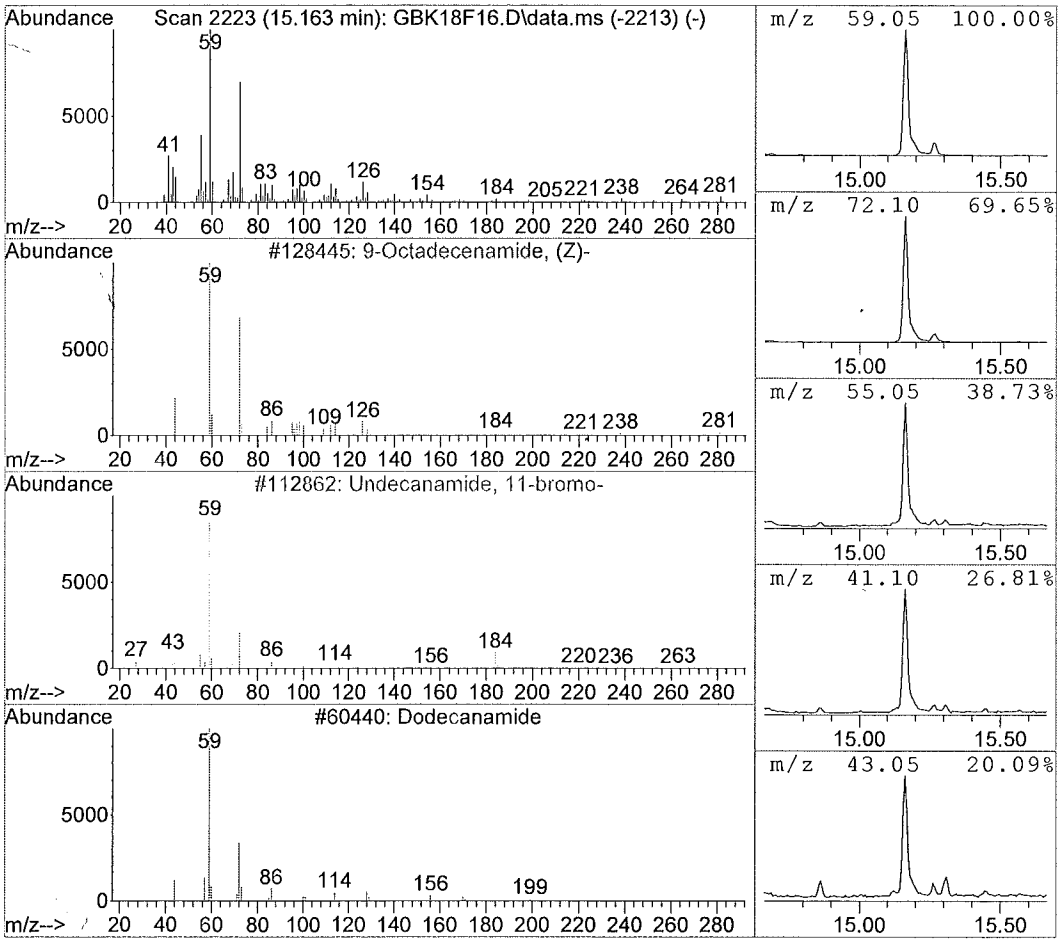


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK18F16.D Vial: 17
Acq On : 06/13/2015 01:18 Operator: DJC
Sample : 1515542016 F9M34 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.16	5.40 ug/ml	781264	Chrysene-d12	2891294

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	53.00
3	Dodecanamide	60440	001120-16-7	53.00
4	Decanamide-	38977	002319-29-1	50.00
5	Octanamide	20317	000629-01-6	50.00



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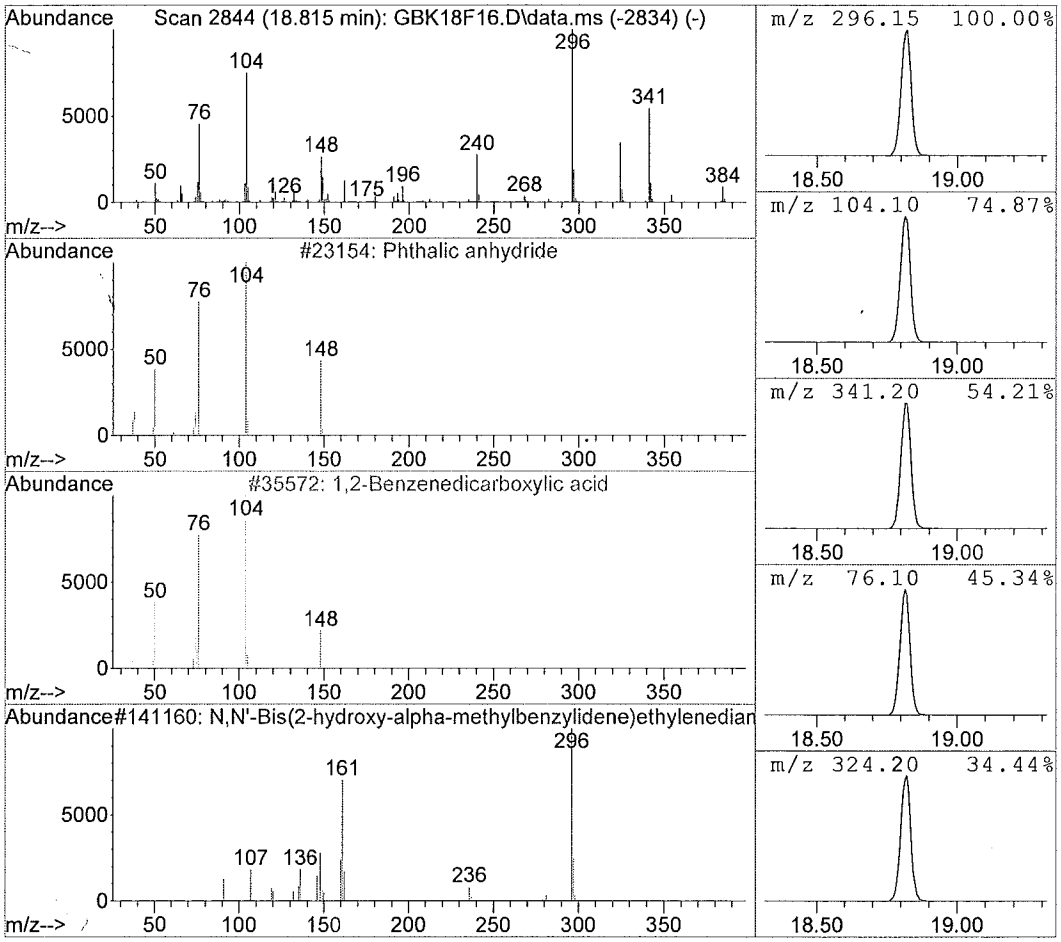
Acq On : 06/13/2015 01:18 Operator: DJC
Sample : 1515542016 F9M34 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.82	10.71 ug/ml	1571279	Perylene-d12	2933430

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23154	000085-44-9	16.00
2	1,2-Benzenedicarboxylic acid	35572	000088-99-3	16.00
3	N,N'-Bis(2-hydroxy-alpha-methylbenz	141160	005464-60-8	14.00
4	Indan-1,2,3-trione	31444	000938-24-9	12.00
5	[2.2]Paracyclophane	67981	001633-22-3	11.00

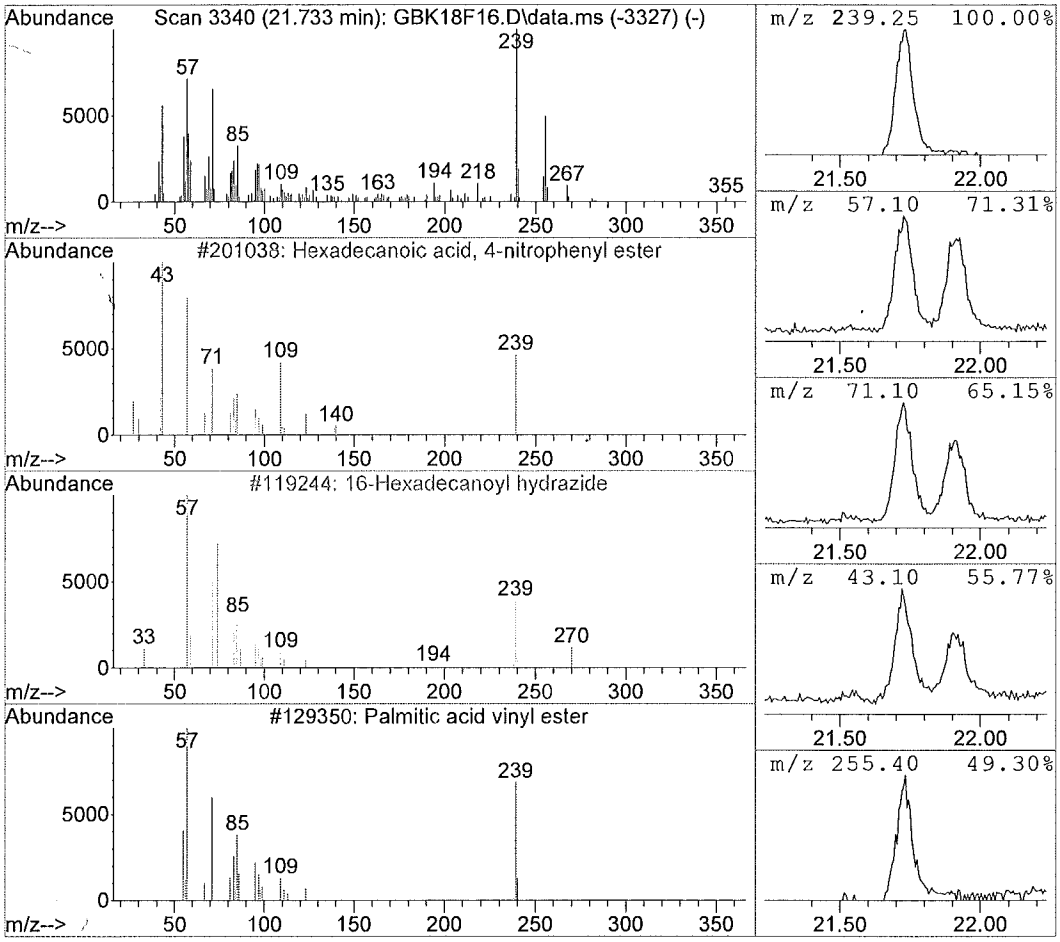


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK18F16.D Vial: 17
Acq On : 06/13/2015 01:18 Operator: DJC
Sample : 1515542016 F9M34 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.73	2.65 ug/ml	388918	Perylene-d12	2933430

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, 4-nitrophenyl es	201038	001492-30-4	43.00
2	16-Hexadecanoyl hydrazide	119244	002619-88-7	38.00
3	Palmitic acid vinyl ester	129350	000693-38-9	30.00
4	Phthalic acid, 4-methoxyphenyl 2-me	191934	1000315-59-5	27.00
5	1H-Benzoimidazole, 2-(3-nitrophenyl	93084	1000305-12-9	27.00

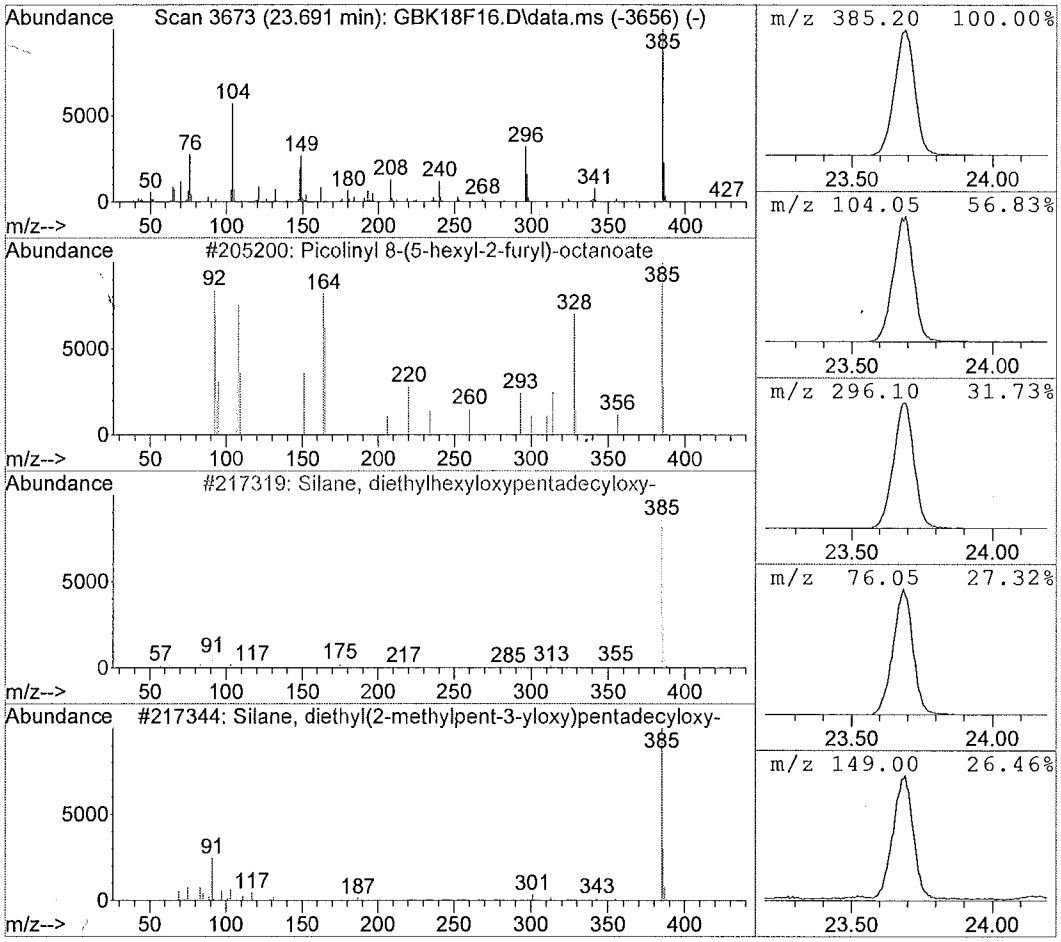


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK18F16.D Vial: 17
Acq On : 06/13/2015 01:18 Operator: DJC
Sample : 1515542016 F9M34 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.69	13.12 ug/ml	1923734	Perylene-d12	2933430

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Picolinyl 8-(5-hexyl-2-furyl)-octan	205200	1000335-93-0	30.00
2	Silane, diethylhexyloxypentadecylox	217319	1000363-74-3	12.00
3	Silane, diethyl(2-methylpent-3-ylox	217344	1000363-78-6	12.00
4	2,3-Dibenzyl-5,8-dimethoxy-6-aminoq	205193	056393-28-3	12.00
5	[2.2]Paracyclophane	67982	001633-22-3	10.00



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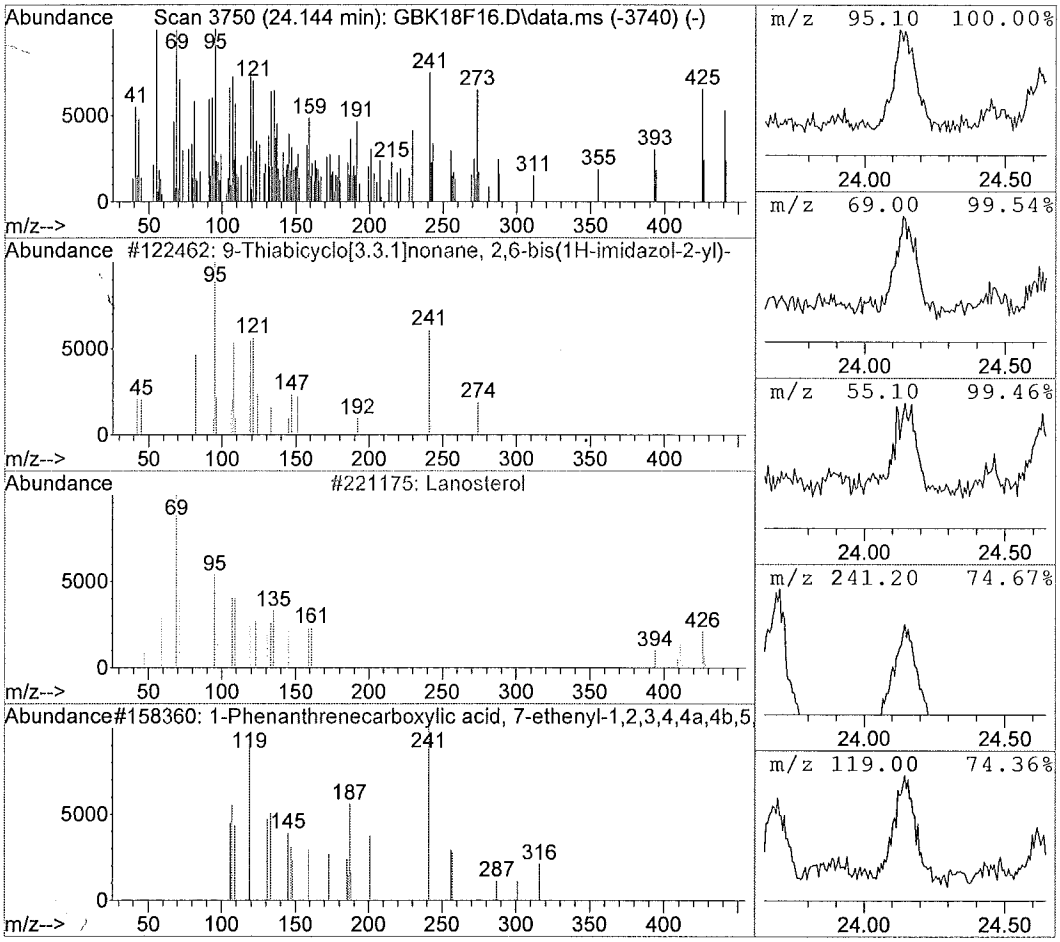
Acq On : 06/13/2015 01:18 Operator: DJC
Sample : 1515542016 F9M34 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.14	2.06 ug/ml	301647	Perylene-d12	2933430

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Thiabicyclo[3.3.1]nonane, 2,6-bis	122462	1000141-52-1	55.00
2	Lanosterol	221175	000079-63-0	45.00
3	1-Phenanthrenecarboxylic acid, 7-et	158360	001686-62-0	25.00
4	Sebacic acid, butyl 1-phenylpropyl	200592	1000354-98-7	22.00
5	13,15-Octacosadiyne	205920	024643-46-7	12.00

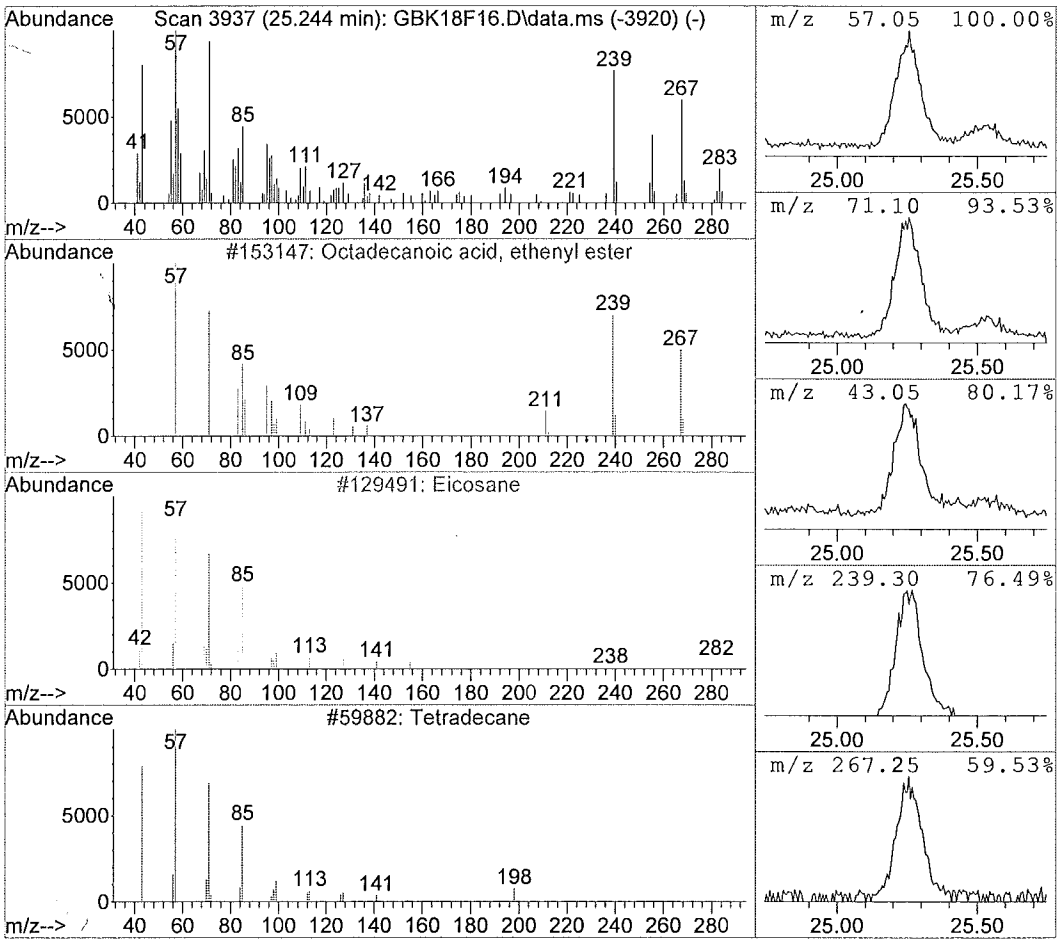


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK18F16.D Vial: 17
Acq On : 06/13/2015 01:18 Operator: DJC
Sample : 1515542016 F9M34 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
25.24	2.17 ug/ml	318004	Perylene-d12	2933430

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octadecanoic acid, ethenyl ester	153147	000111-63-7	68.00
2	Eicosane	129491	000112-95-8	53.00
3	Tetradecane	59882	000629-59-4	25.00
4	Octadecane	105883	000593-45-3	25.00
5	Nonadecane	117637	000629-92-5	25.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M35

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542017

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GBK19F17

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	2100	U
108-95-2	Phenol	2100	U
111-44-4	Bis(2-chloroethyl)ether	2100	U
95-57-8	2-Chlorophenol	2100	U
95-48-7	2-Methylphenol	2100	U
108-60-1	2,2'-Oxybis(1-chloropropane)	2100	U
98-86-2	Acetophenone	2100	U
106-44-5	4-Methylphenol	2100	U
621-64-7	N-Nitroso-di-n-propylamine	2100	U
67-72-1	Hexachloroethane	2100	U
98-95-3	Nitrobenzene	2100	U
78-59-1	Isophorone	2100	U
88-75-5	2-Nitrophenol	2100	U
105-67-9	2,4-Dimethylphenol	2100	U
111-91-1	Bis(2-chloroethoxy)methane	2100	U
120-83-2	2,4-Dichlorophenol	2100	U
91-20-3	Naphthalene	2100	U
106-47-8	4-Chloroaniline	2100	U
87-68-3	Hexachlorobutadiene	2100	U
105-60-2	Caprolactam	2100	U
59-50-7	4-Chloro-3-methylphenol	2100	U
91-57-6	2-Methylnaphthalene	2100	U
77-47-4	Hexachlorocyclopentadiene	2100	U
88-06-2	2,4,6-Trichlorophenol	2100	U
95-95-4	2,4,5-Trichlorophenol	2100	U
92-52-4	1,1'-Biphenyl	2100	U
91-58-7	2-Chloronaphthalene	2100	U
88-74-4	2-Nitroaniline	4000	U
131-11-3	Dimethylphthalate	2100	U
606-20-2	2,6-Dinitrotoluene	2100	U
208-96-8	Acenaphthylene	2100	U
99-09-2	3-Nitroaniline	4000	U
83-32-9	Acenaphthene	2100	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M35

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542017

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GBK19F17

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	4000	U
100-02-7	4-Nitrophenol	4000	U
132-64-9	Dibenzofuran	2100	U
121-14-2	2,4-Dinitrotoluene	2100	U
84-66-2	Diethylphthalate	2100	U
86-73-7	Fluorene	2100	U
7005-72-3	4-Chlorophenyl-phenylether	2100	U
100-01-6	4-Nitroaniline	4000	U
534-52-1	4,6-Dinitro-2-methylphenol	4000	U
86-30-6	N-Nitrosodiphenylamine[1]	2100	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2100	U
101-55-3	4-Bromophenyl-phenylether	2100	U
118-74-1	Hexachlorobenzene	2100	U
1912-24-9	Atrazine	2100	U
87-86-5	Pentachlorophenol	4000	U
85-01-8	Phenanthrene	2100	U
120-12-7	Anthracene	2100	U
86-74-8	Carbazole	2100	U
84-74-2	Di-n-butylphthalate	2100	U
206-44-0	Fluoranthene	2100	U
129-00-0	Pyrene	2100	U
85-68-7	Butylbenzylphthalate	2100	U
91-94-1	3,3'-Dichlorobenzidine	2100	U
56-55-3	Benzo(a)anthracene	2100	U
218-01-9	Chrysene	2100	U
117-81-7	Bis(2-ethylhexyl)phthalate	2100	U
117-84-0	Di-n-octylphthalate	2100	U
205-99-2	Benzo(b)fluoranthene	2100	U
207-08-9	Benzo(k)fluoranthene	2100	U
50-32-8	Benzo(a)pyrene	2100	U
193-39-5	Indeno(1,2,3-cd)pyrene	2100	U
53-70-3	Dibenzo(a,h)anthracene	2100	U
191-24-2	Benzo(g,h,i)perylene	2100	U
58-90-2	2,3,4,6-Tetrachlorophenol	2100	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M35

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542017
Sample wt/vol: 30.4 (g/mL) g Lab File ID: GBK19F17
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2015
GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 10.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.56	11000	JB
02	301-02-0	9-Octadecenamide, (Z)-	15.16	1200	JNB
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[2]	Total Alkanes	N/A		

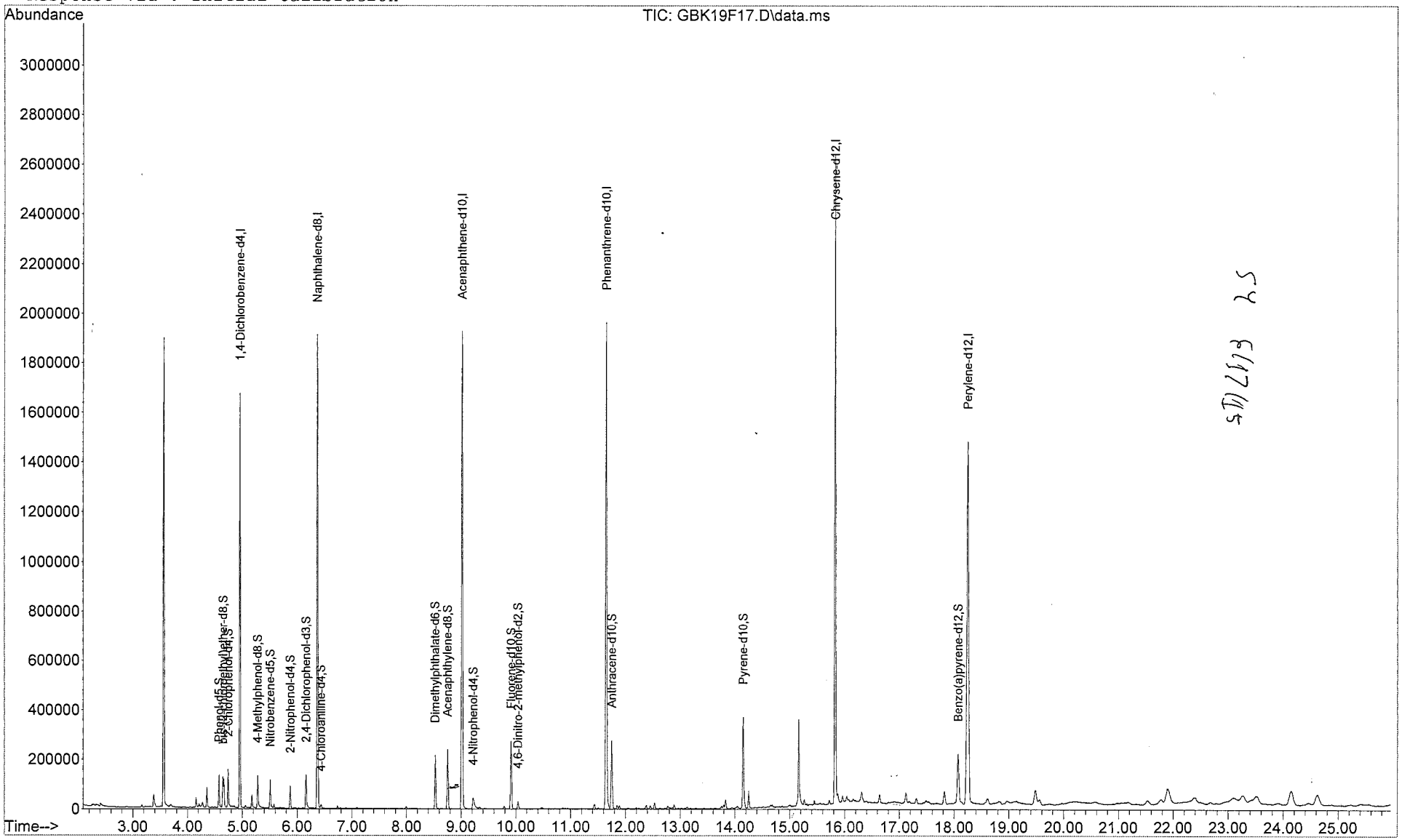
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK19F17.D Vial: 18
Acq On : 06/13/2015 01:50 Operator: DJC
Sample : 1515542017 F9M35 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 13 02:16:34 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK19F17.D Vial: 18
Acq On : 06/13/2015 01:50 Operator: DJC
Sample : 1515542017 F9M35 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 13 02:16:34 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	307063	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1160468	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	680449	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1146542	20.00 ug/ml
73) Chrysene-d12	15.83	240	1153957	20.00 ug/ml
81) Perylene-d12	18.25	264	1110869	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	53402	2.494ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	22955	1.751ug/mL
7) 2-Chlorophenol-d4	4.74	132	51980	2.472ug/ml
13) 4-Methylphenol-d8	5.28	113	37704	2.262ug/mL
17) Nitrobenzene-d5	5.51	128	22551	2.316ug/ml
21) 2-Nitrophenol-d4	5.87	143	24620	2.269ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	44865	2.823ug/mL
28) 4-Chloroaniline-d4	6.43	131	7986	0.463ug/mL
42) Dimethylphthalate-d6	8.53	166	137863	3.331ug/mL
45) Acenaphthylene-d8	8.76	160	162555	2.943ug/mL
50) 4-Nitrophenol-d4	9.22	143	25126	2.851ug/mL
57) Fluorene-d10	9.92	176	116083	3.230ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	8133	1.080ug/mL
69) Anthracene-d10	11.75	188	182871	3.153ug/mL
75) Pyrene-d10	14.15	212	165764	3.160ug/mL
86) Benzo(a)pyrene-d12	18.07	264	140471	2.788ug/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)

: 80471

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK19F17.D Vial: 18
Acq On : 06/13/2015 01:50 Operator: DJC
Sample : 1515542017 F9M35 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 13 02:16:34 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 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)

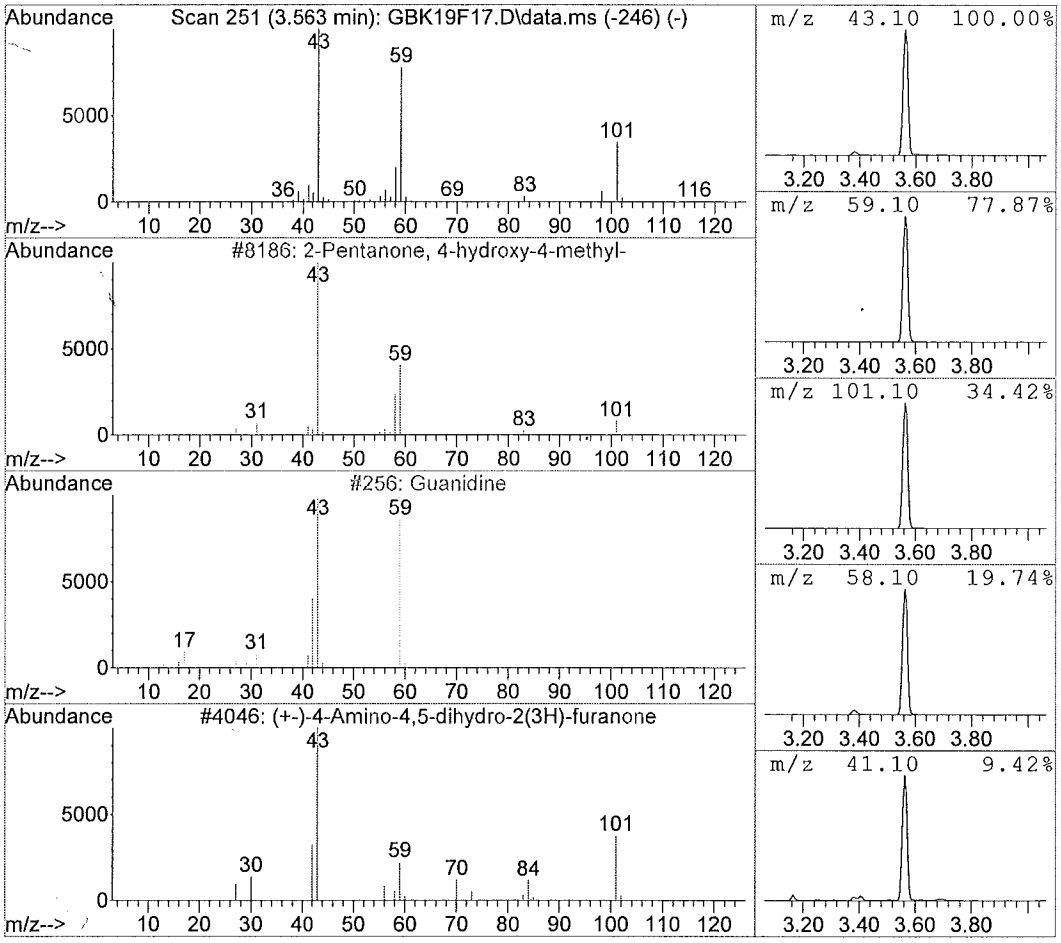
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK19F17.D Vial: 18
Acq On : 06/13/2015 01:50 Operator: DJC
Sample : 1515542017 F9M35 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.56	26.50 ug/ml	2246939	1,4-Dichlorobenzene-d4	1695797

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	47.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Morpholine, 4-methyl-	4084	000109-02-4	9.00

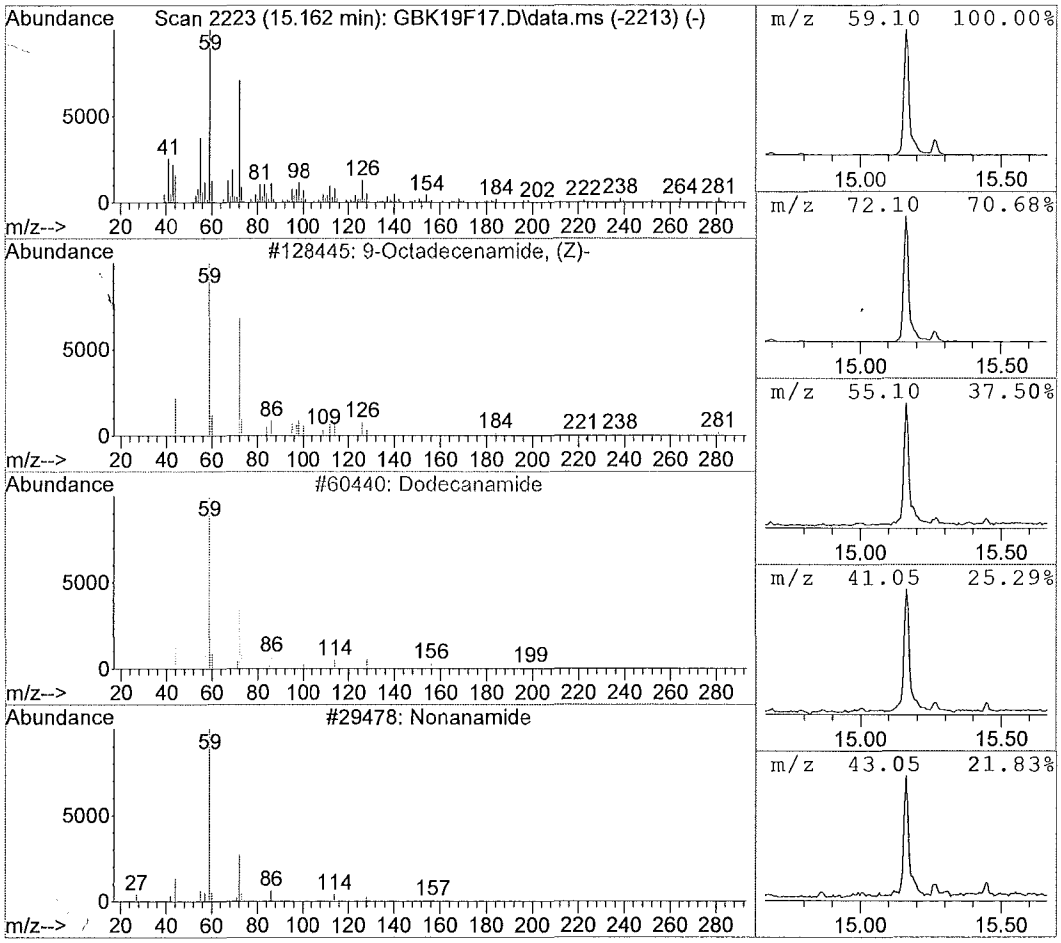


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK19F17.D Vial: 18
Acq On : 06/13/2015 01:50 Operator: DJC
Sample : 1515542017 F9M35 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.16	3.03 ug/ml	499473	Chrysene-d12	3292224

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Dodecanamide	60440	001120-16-7	53.00
3	Nonanamide	29478	001120-07-6	53.00
4	2-Hydroxy-2,4-dimethyl-hept-6-en-3-	29069	1000192-56-0	43.00
5	Decanamide-	38977	002319-29-1	42.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M37

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542018

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GBM02F18

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	2000	U
108-95-2	Phenol	2000	U
111-44-4	Bis(2-chloroethyl)ether	2000	U
95-57-8	2-Chlorophenol	2000	U
95-48-7	2-Methylphenol	2000	U
108-60-1	2,2'-Oxybis(1-chloropropane)	2000	U
98-86-2	Acetophenone	2000	U
106-44-5	4-Methylphenol	2000	U
621-64-7	N-Nitroso-di-n-propylamine	2000	U
67-72-1	Hexachloroethane	2000	U
98-95-3	Nitrobenzene	2000	U
78-59-1	Isophorone	2000	U
88-75-5	2-Nitrophenol	2000	U
105-67-9	2,4-Dimethylphenol	2000	U
111-91-1	Bis(2-chloroethoxy)methane	2000	U
120-83-2	2,4-Dichlorophenol	2000	U
91-20-3	Naphthalene	2000	U
106-47-8	4-Chloroaniline	2000	U
87-68-3	Hexachlorobutadiene	2000	U
105-60-2	Caprolactam	2000	U
59-50-7	4-Chloro-3-methylphenol	2000	U
91-57-6	2-Methylnaphthalene	2000	U
77-47-4	Hexachlorocyclopentadiene	2000	U
88-06-2	2,4,6-Trichlorophenol	2000	U
95-95-4	2,4,5-Trichlorophenol	2000	U
92-52-4	1,1'-Biphenyl	2000	U
91-58-7	2-Chloronaphthalene	2000	U
88-74-4	2-Nitroaniline	3800	U
131-11-3	Dimethylphthalate	2000	U
606-20-2	2,6-Dinitrotoluene	2000	U
208-96-8	Acenaphthylene	2000	U
99-09-2	3-Nitroaniline	3800	U
83-32-9	Acenaphthene	2000	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M37

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542018

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GBM02F18

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	3800	U
100-02-7	4-Nitrophenol	3800	U
132-64-9	Dibenzofuran	2000	U
121-14-2	2,4-Dinitrotoluene	2000	U
84-66-2	Diethylphthalate	2000	U
86-73-7	Fluorene	2000	U
7005-72-3	4-Chlorophenyl-phenylether	2000	U
100-01-6	4-Nitroaniline	3800	U
534-52-1	4,6-Dinitro-2-methylphenol	3800	U
86-30-6	N-Nitrosodiphenylamine[1]	2000	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2000	U
101-55-3	4-Bromophenyl-phenylether	2000	U
118-74-1	Hexachlorobenzene	2000	U
1912-24-9	Atrazine	2000	U
87-86-5	Pentachlorophenol	3800	U
85-01-8	Phenanthrene	2000	U
120-12-7	Anthracene	2000	U
86-74-8	Carbazole	2000	U
84-74-2	Di-n-butylphthalate	2000	U
206-44-0	Fluoranthene	330	J
129-00-0	Pyrene	320	J
85-68-7	Butylbenzylphthalate	2000	U
91-94-1	3,3'-Dichlorobenzidine	2000	U
56-55-3	Benzo(a)anthracene	230	J
218-01-9	Chrysene	230	J
117-81-7	Bis(2-ethylhexyl)phthalate	2000	U
117-84-0	Di-n-octylphthalate	2000	U
205-99-2	Benzo(b)fluoranthene	390	J
207-08-9	Benzo(k)fluoranthene	2000	U
50-32-8	Benzo(a)pyrene	200	J
193-39-5	Indeno(1,2,3-cd)pyrene	190	J
53-70-3	Dibenzo(a,h)anthracene	2000	U
191-24-2	Benzo(g,h,i)perylene	2000	U
58-90-2	2,3,4,6-Tetrachlorophenol	2000	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M37

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542018
Sample wt/vol: 30.4 (g/mL) g Lab File ID: GBM02F18
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015
GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 10.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.56	7900	JB
02		Unknown Propanoic acid, 2-methyl-, 1-(1,1-dimeth	9.78	6400	J
03	301-02-0	9-Octadecenamide, (Z)-	15.17	1400	JNB
04	1058-61-3	Stigmast-4-en-3-one	24.64	810	JN
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[2]	Total Alkanes	N/A		

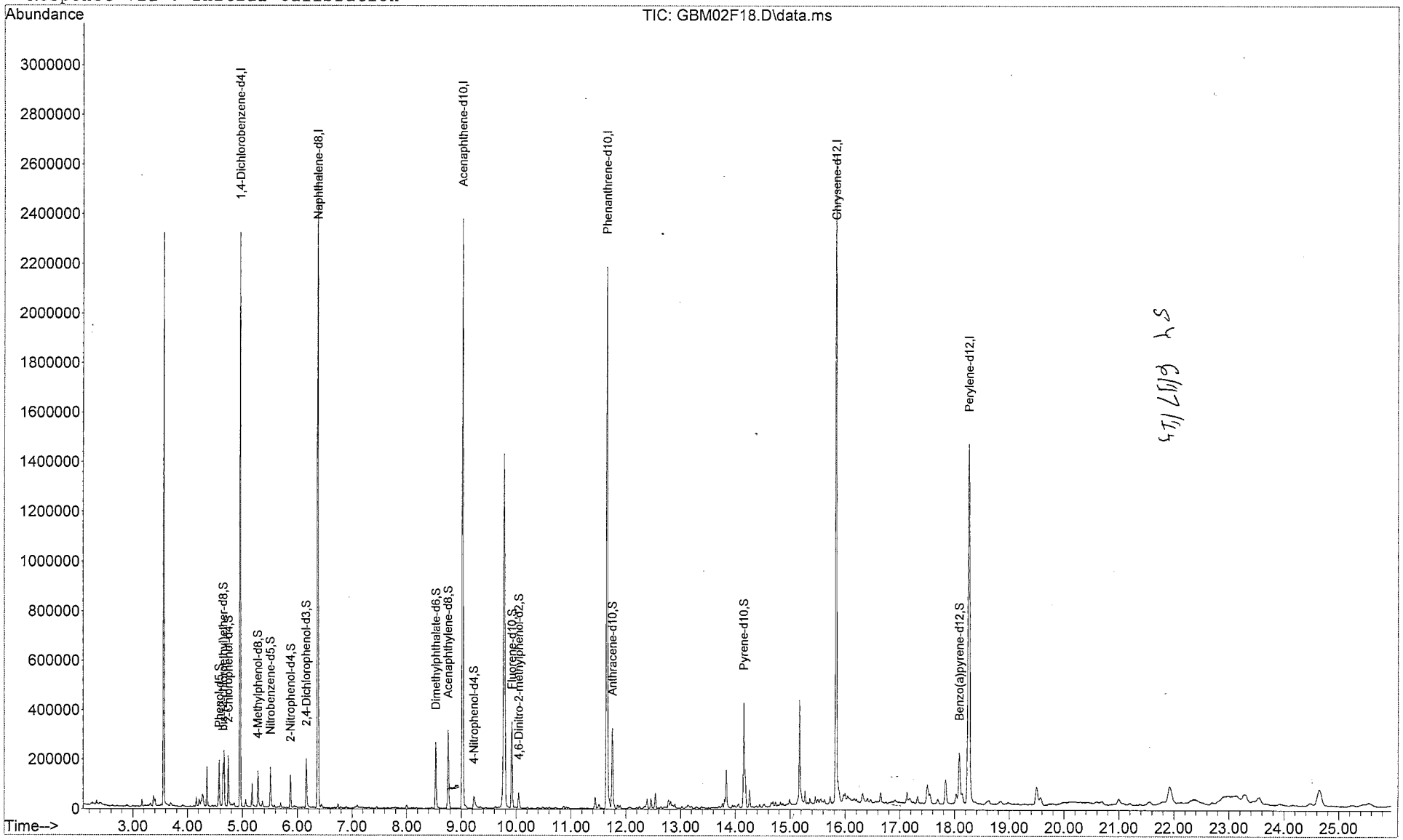
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM02F18.D Vial: 2
Acq On : 06/15/2015 16:58 Operator: DJC
Sample : 1515542018 F9M37 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 17 08:44:29 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM02F18.D Vial: 2
Acq On : 06/15/2015 16:58 Operator: DJC
Sample : 1515542018 F9M37 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : luL
MS Integration Params: rteint.p
Quant Time: Jun 17 08:44:29 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	404962	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1509910	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	825060	20.00 ug/ml
59) Phenanthrene-d10	11.66	188	1331606	20.00 ug/ml
73) Chrysene-d12	15.84	240	1200694	20.00 ug/ml
81) Perylene-d12	18.27	264	1136213	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.58	99	75511	2.674ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	30153	1.744ug/mL
7) 2-Chlorophenol-d4	4.74	132	73207	2.640ug/ml
13) 4-Methylphenol-d8	5.28	113	42373	1.927ug/mL
17) Nitrobenzene-d5	5.51	128	30329	2.394ug/ml
21) 2-Nitrophenol-d4	5.87	143	35837	2.538ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	59033	2.854ug/mL
28) 4-Chloroaniline-d4	6.44	131	4544	0.203ug/mL
42) Dimethylphthalate-d6	8.53	166	172298	3.434ug/mL
45) Acenaphthylene-d8	8.76	160	211837	3.163ug/mL
50) 4-Nitrophenol-d4	9.23	143	26789	2.507ug/mL
57) Fluorene-d10	9.92	176	146625	3.364ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	17782	2.033ug/mL
69) Anthracene-d10	11.76	188	206801	3.070ug/mL
75) Pyrene-d10	14.16	212	186463	3.416ug/mL
86) Benzo(a)pyrene-d12	18.09	264	147748	2.867ug/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)

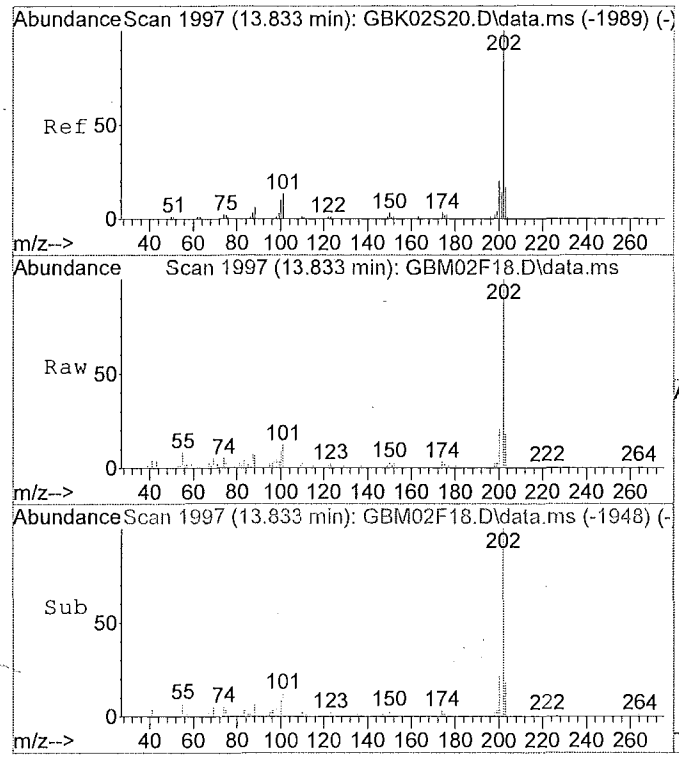
Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM02F18.D Vial: 2
Acq On : 06/15/2015 16:58 Operator: DJC
Sample : 1515542018 F9M37 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 17 08:44:29 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 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	13.83	202	63575	0.847ug/ml	96
74)	Pyrene	14.18	202	62400	0.839ug/ml	96
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	15.82	228	41044	0.602ug/ml	86
79)	Chrysene	15.87	228	37579	0.607ug/ml	96
80)	Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	17.50	252	66150	1.002ug/ml	98
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	18.14	252	33043	0.519ug/ml	95
87)	Indeno(1,2,3-c,d)pyrene	20.99	276	31232	0.500ug/ml	96
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

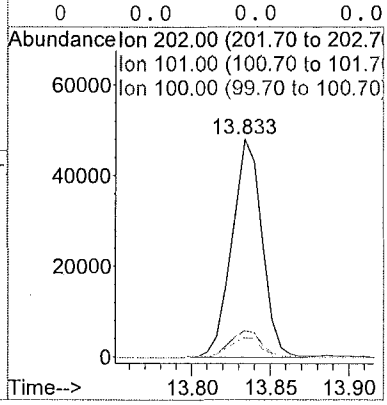
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

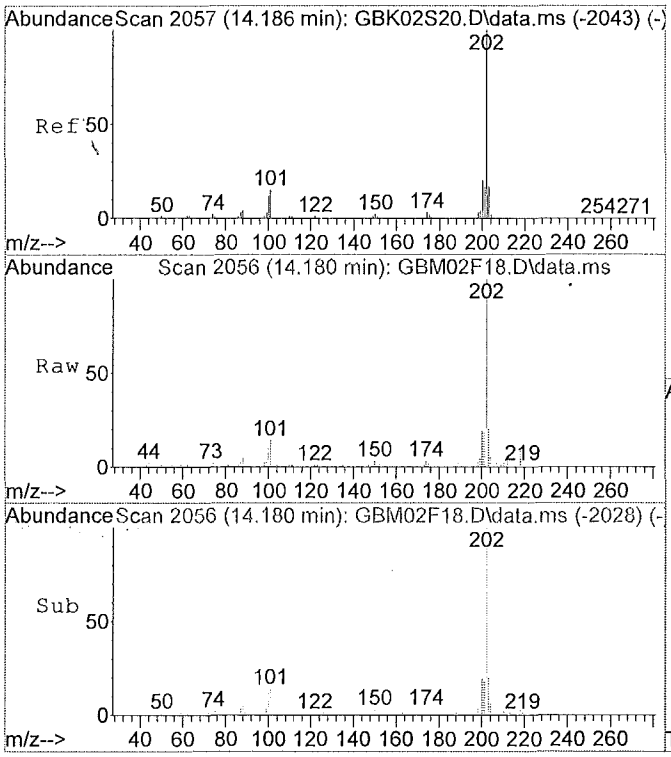


#72
Fluoranthene
Concen: 0.85 ug/ml
RT: 13.83 min Scan# 1997
Delta R.T. 0.00 min
Lab File: GBM02F18.D
Acq: 06/15/2015 16:58

Tgt Ion:202 Resp: 63575

Ion	Ratio	Lower	Upper
202	100		
101	13.0	10.5	19.5
100	9.9	7.4	13.8
0	0.0	0.0	0.0

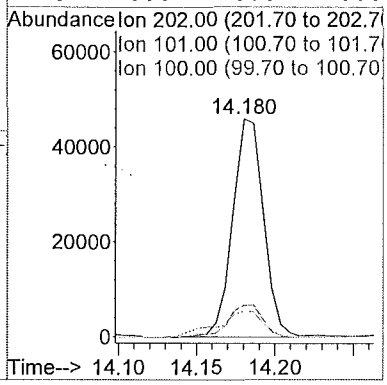


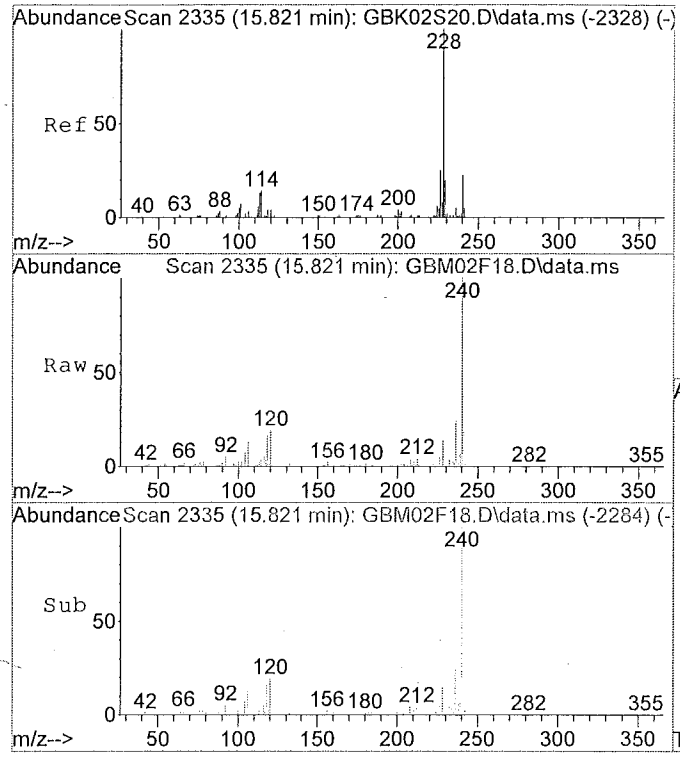


#74
Pyrene
Concen: 0.84 ug/ml
RT: 14.18 min Scan# 2056
Delta R.T. -0.01 min
Lab File: GBM02F18.D
Acq: 06/15/2015 16:58

Tgt Ion:202 Resp: 62400

Ion	Ratio	Lower	Upper
202	100		
101	16.6	12.2	22.7
100	17.1	10.1	18.7
0	0.0	0.0	0.0

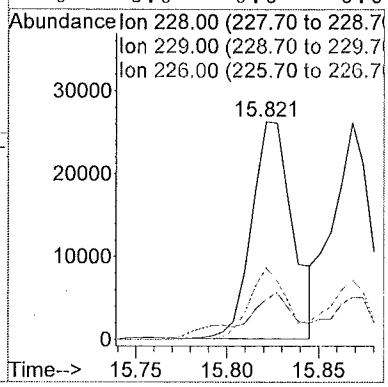


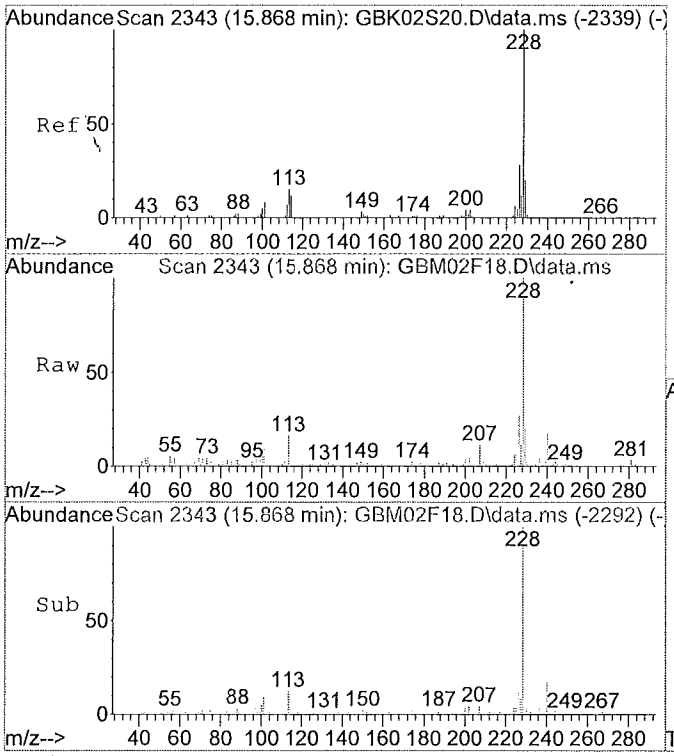


#78
Benzo(a)anthracene
Concen: 0.60 ug/ml
RT: 15.82 min Scan# 2335
Delta R.T. 0.00 min
Lab File: GBM02F18.D
Acq: 06/15/2015 16:58

Tgt Ion:228 Resp: 41044

Ion	Ratio	Lower	Upper
228	100		
229	27.9	13.7	25.5#
226	31.3	18.2	33.8
0	0.0	0.0	0.0

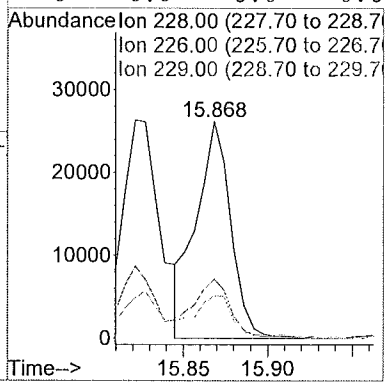


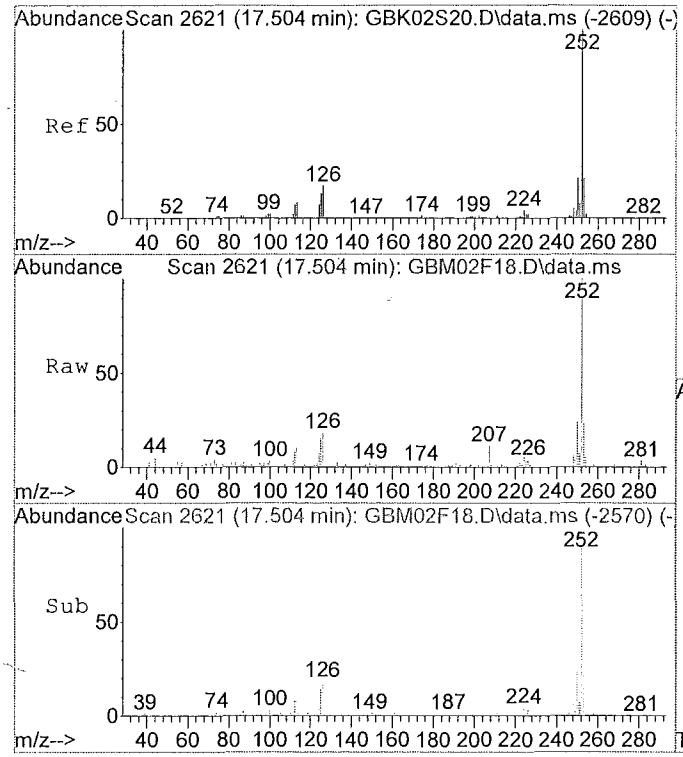


#79
Chrysene
Concen: 0.61 ug/ml
RT: 15.87 min Scan# 2343
Delta R.T. 0.00 min
Lab File: GBM02F18.D
Acq: 06/15/2015 16:58

Tgt Ion:228 Resp: 37579

Ion	Ratio	Lower	Upper
228	100		
226	29.2	20.1	37.3
229	23.4	13.7	25.5
0	0.0	0.0	0.0

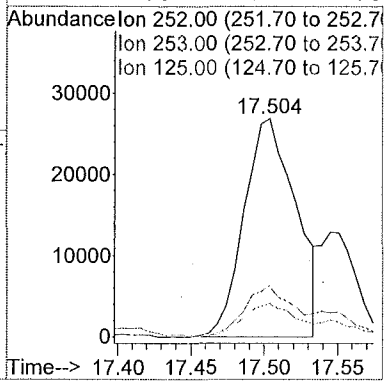


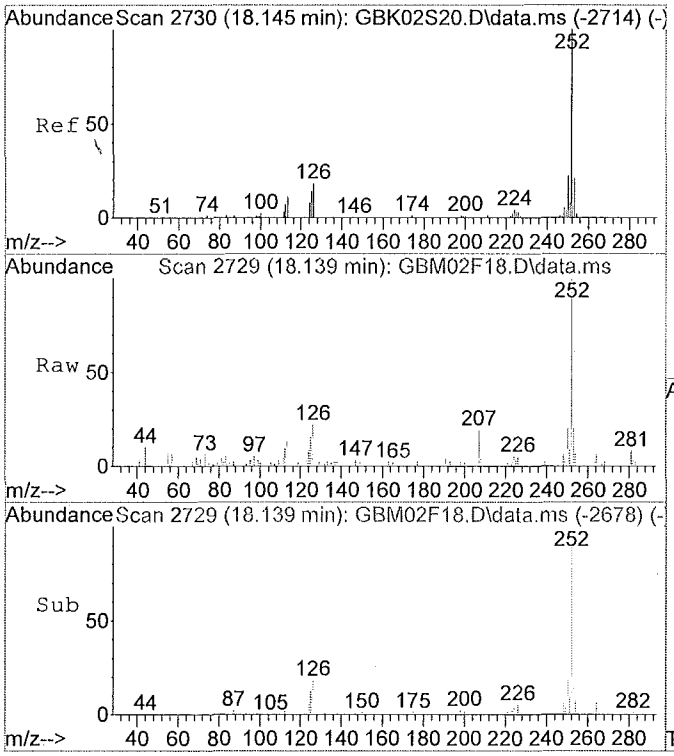


#83
Benzo(b)fluoranthene
Concen: 1.00 ug/ml
RT: 17.50 min Scan# 2621
Delta R.T. 0.01 min
Lab File: GBM02F18.D
Acq: 06/15/2015 16:58

Tgt Ion:252 Resp: 66150

Ion	Ratio	Lower	Upper
252	100		
253	22.6	15.1	28.1
125	14.4	10.6	19.8
0	0.0	0.0	0.0

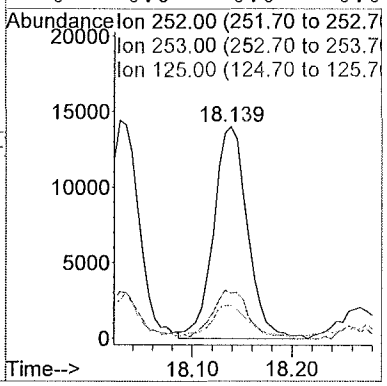


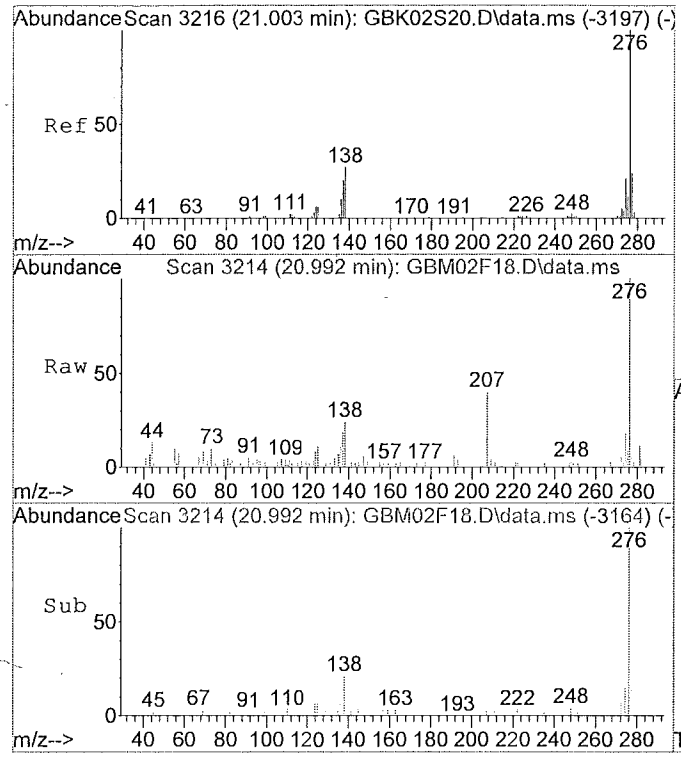


#85
Benzo(a)pyrene
Concen: 0.52 ug/ml
RT: 18.14 min Scan# 2729
Delta R.T. 0.00 min
Lab File: GBM02F18.D
Acq: 06/15/2015 16:58

Tgt Ion:252 Resp: 33043

Ion	Ratio	Lower	Upper
252	100		
253	24.3	15.2	28.2
125	18.4	11.8	21.8
0	0.0	0.0	0.0

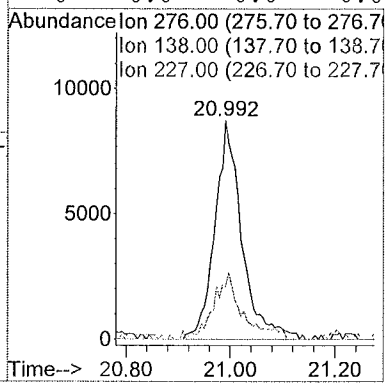




#87
Indeno(1,2,3-c,d)pyrene
Concen: 0.50 ug/ml
RT: 20.99 min Scan# 3214
Delta R.T. -0.01 min
Lab File: GBM02F18.D
Acq: 06/15/2015 16:58

Tgt Ion:276 Resp: 31232

Ion	Ratio	Lower	Upper
276	100		
138	29.5	22.3	41.5
227	0.0	0.1	0.1#
0	0.0	0.0	0.0



00487

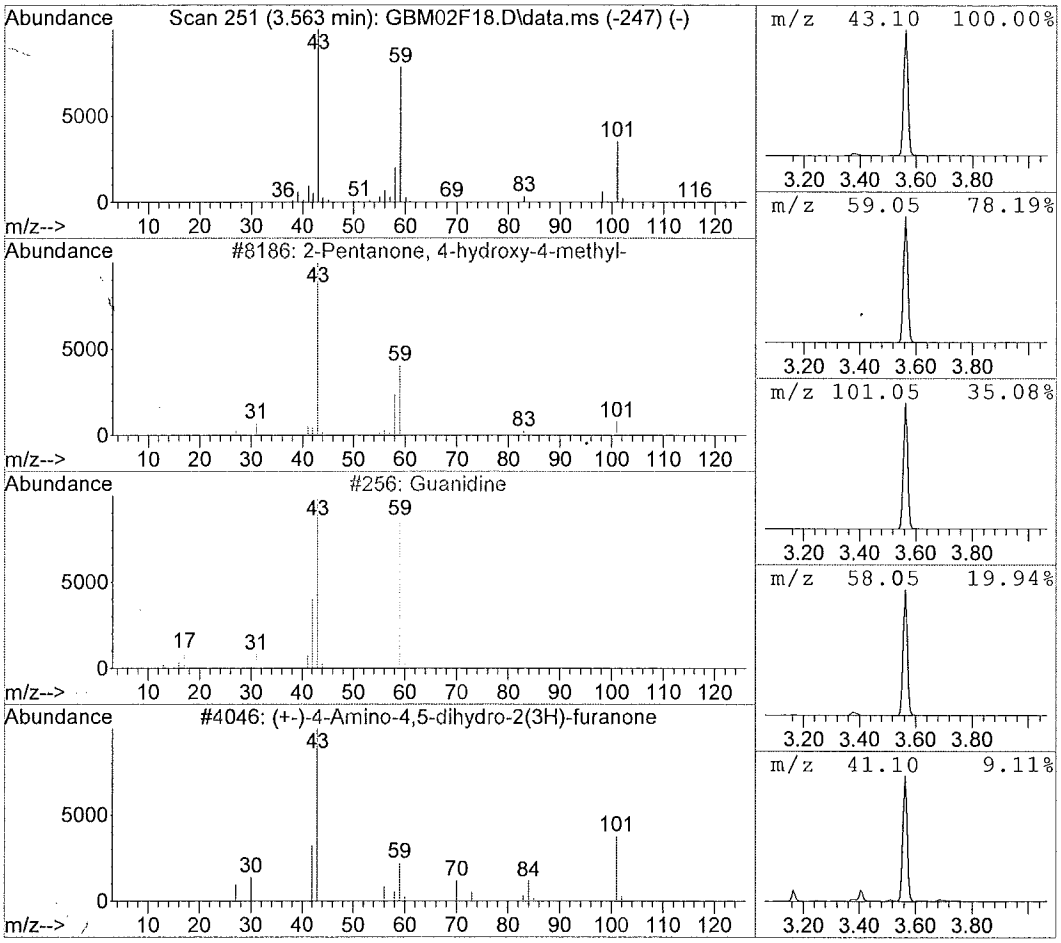
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM02F18.D Vial: 2
Acq On : 06/15/2015 16:58 Operator: DJC
Sample : 1515542018 F9M37 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.56	20.56 ug/ml	2309688	1,4-Dichlorobenzene-d4	2246888

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	47.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Morpholine, 4-methyl-	4084	000109-02-4	9.00

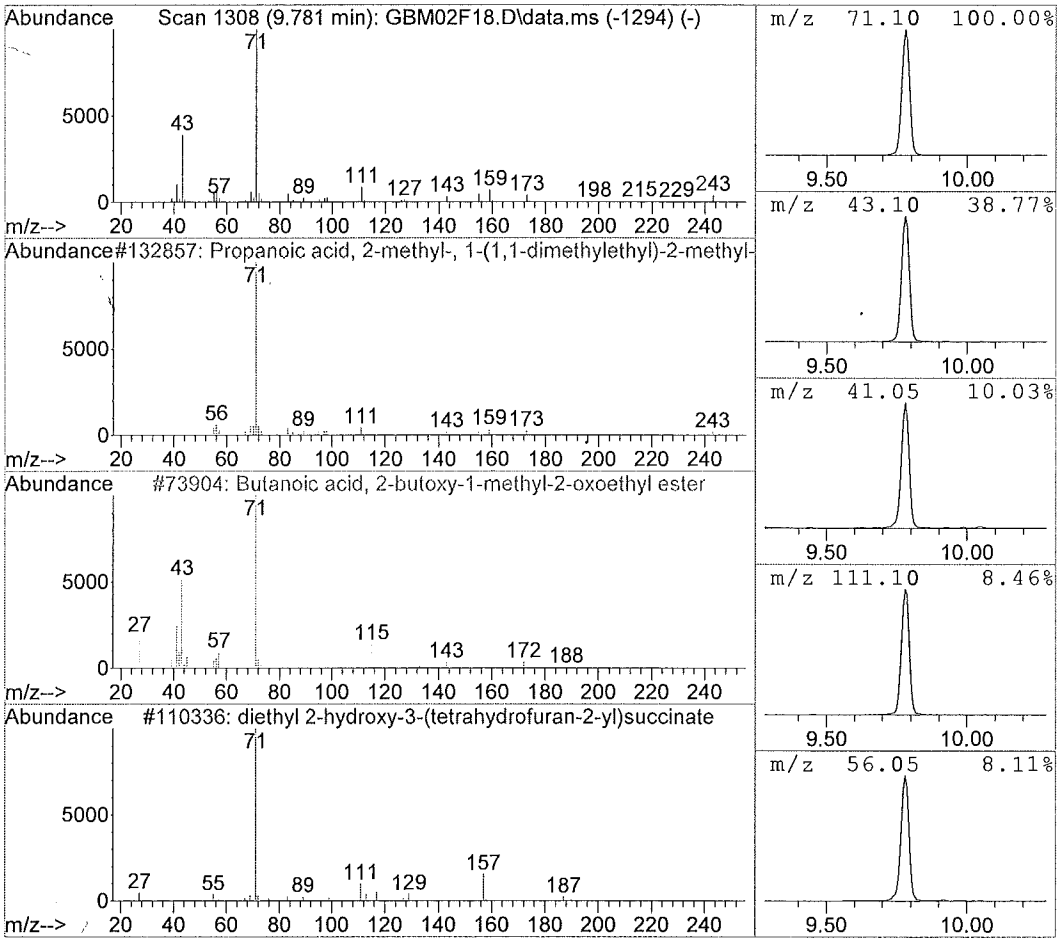


Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM02F18.D Vial: 2
Acq On : 06/15/2015 16:58 Operator: DJC
Sample : 1515542018 F9M37 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.78	16.65 ug/ml	2732944	Acenaphthene-d10	3283735

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propanoic acid, 2-methyl-, 1-(1,1-d	132857	074381-40-1	56.00
2	Butanoic acid, 2-butoxy-1-methyl-2-	73904	007492-70-8	45.00
3	diethyl 2-hydroxy-3-(tetrahydrofura	110336	1000365-67-1	45.00
4	2,2,4-Trimethyl-1,3-pentanediol dii	132814	006846-50-0	43.00
5	Pentanoic acid, 2,2,4-trimethyl-3-c	132856	1000140-77-5	43.00

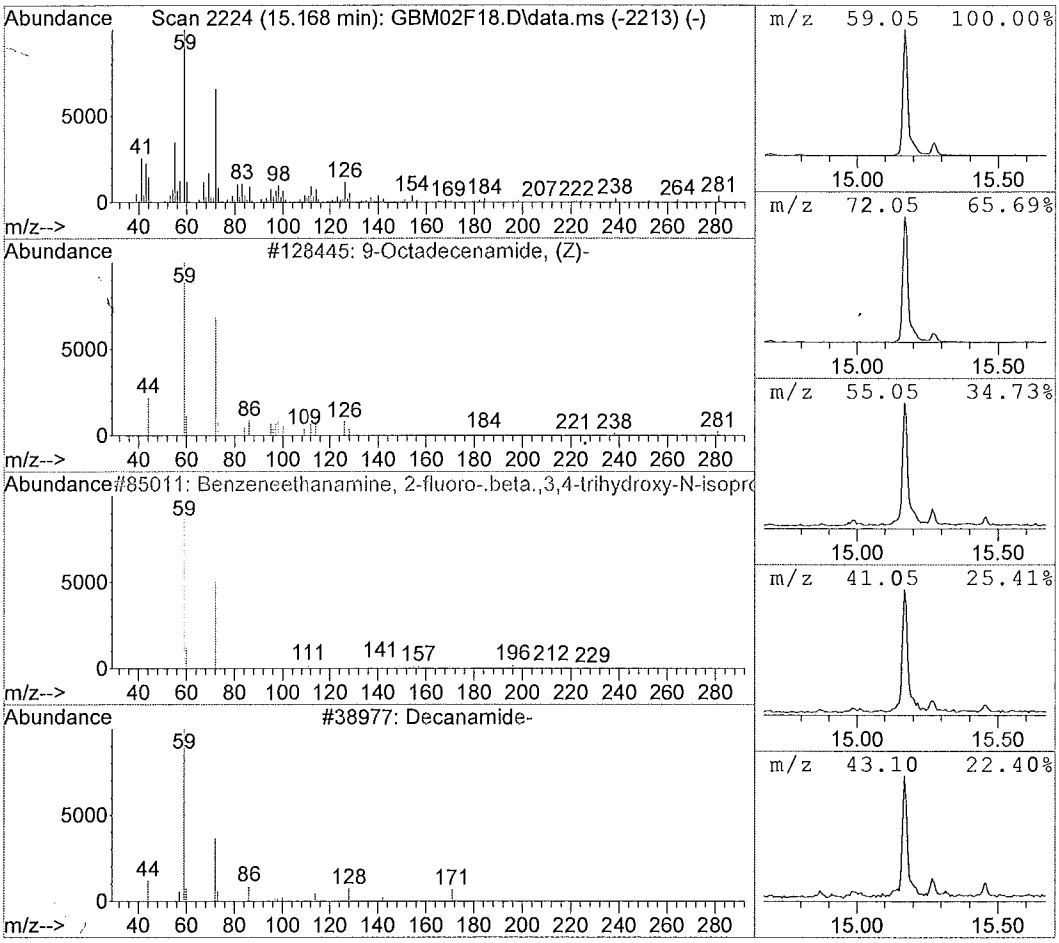


Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM02F18.D Vial: 2
Acq On : 06/15/2015 16:58 Operator: DJC
Sample : 1515542018 F9M37 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	3.52 ug/ml	620558	Chrysene-d12	3528944

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	98.00
2	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	59.00
3	Decanamide-	38977	002319-29-1	50.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	50.00
5	Dodecanamide	60440	001120-16-7	50.00



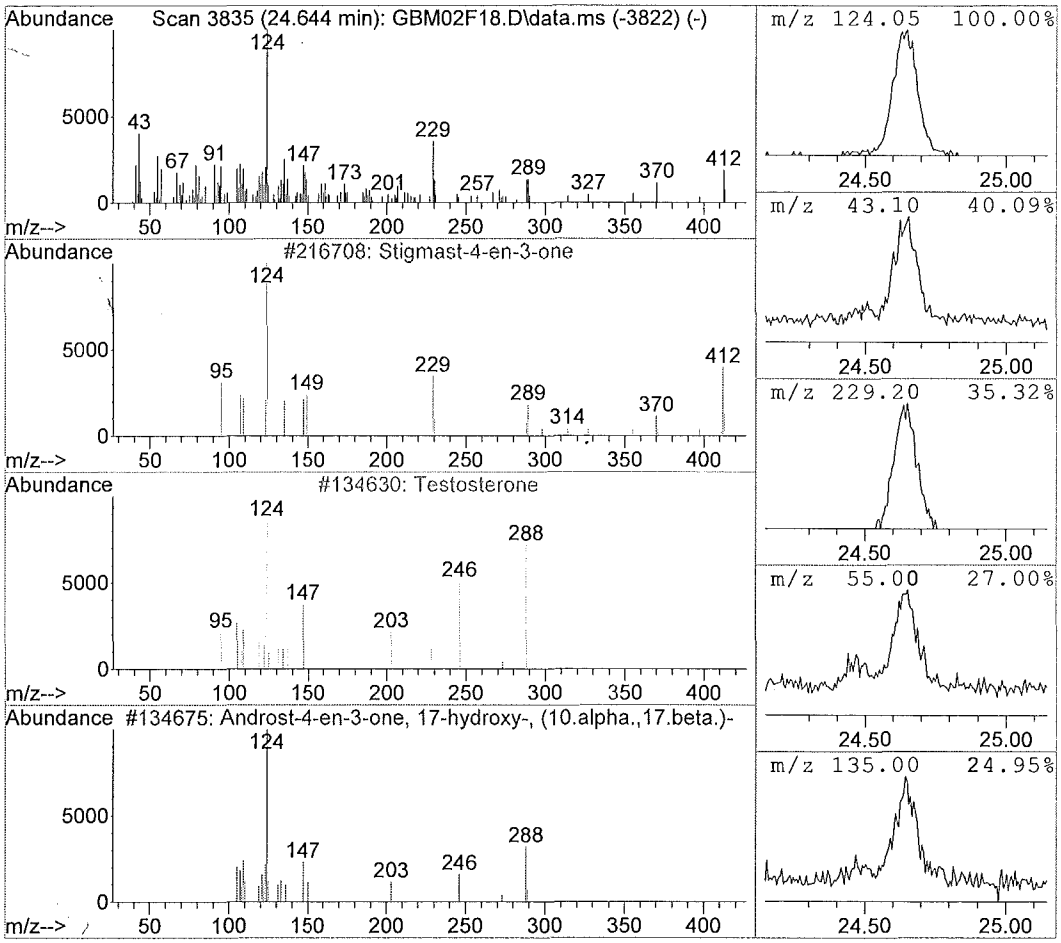
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM02F18.D Vial: 2
Acq On : 06/15/2015 16:58 Operator: DJC
Sample : 1515542018 F9M37 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.64	2.10 ug/ml	353784	Perylene-d12	3368898

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmast-4-en-3-one	216708	001058-61-3	94.00
2	Testosterone	134630	000058-22-0	89.00
3	Androst-4-en-3-one, 17-hydroxy-, (1	134675	000604-39-7	46.00
4	3-(4-Fluoroanilino)-1-(3-nitropheny	134233	350039-84-8	38.00
5	p-Fluoroatropine dehydrate	135261	1000212-74-8	38.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M38

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542019

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBM03F19

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	1900	U
108-95-2	Phenol	1900	U
111-44-4	Bis(2-chloroethyl)ether	1900	U
95-57-8	2-Chlorophenol	1900	U
95-48-7	2-Methylphenol	1900	U
108-60-1	2,2'-Oxybis(1-chloropropane)	1900	U
98-86-2	Acetophenone	1900	U
106-44-5	4-Methylphenol	1900	U
621-64-7	N-Nitroso-di-n-propylamine	1900	U
67-72-1	Hexachloroethane	1900	U
98-95-3	Nitrobenzene	1900	U
78-59-1	Isophorone	1900	U
88-75-5	2-Nitrophenol	1900	U
105-67-9	2,4-Dimethylphenol	1900	U
111-91-1	Bis(2-chloroethoxy)methane	1900	U
120-83-2	2,4-Dichlorophenol	1900	U
91-20-3	Naphthalene	1900	U
106-47-8	4-Chloroaniline	1900	U
87-68-3	Hexachlorobutadiene	1900	U
105-60-2	Caprolactam	1900	U
59-50-7	4-Chloro-3-methylphenol	1900	U
91-57-6	2-Methylnaphthalene	1900	U
77-47-4	Hexachlorocyclopentadiene	1900	U
88-06-2	2,4,6-Trichlorophenol	1900	U
95-95-4	2,4,5-Trichlorophenol	1900	U
92-52-4	1,1'-Biphenyl	1900	U
91-58-7	2-Chloronaphthalene	1900	U
88-74-4	2-Nitroaniline	3700	U
131-11-3	Dimethylphthalate	1900	U
606-20-2	2,6-Dinitrotoluene	1900	U
208-96-8	Acenaphthylene	1900	U
99-09-2	3-Nitroaniline	3700	U
83-32-9	Acenaphthene	1900	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M38

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542019

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBM03F19

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	3700	U
100-02-7	4-Nitrophenol	3700	U
132-64-9	Dibenzofuran	1900	U
121-14-2	2,4-Dinitrotoluene	1900	U
84-66-2	Diethylphthalate	1900	U
86-73-7	Fluorene	1900	U
7005-72-3	4-Chlorophenyl-phenylether	1900	U
100-01-6	4-Nitroaniline	3700	U
534-52-1	4,6-Dinitro-2-methylphenol	3700	U
86-30-6	N-Nitrosodiphenylamine[1]	1900	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1900	U
101-55-3	4-Bromophenyl-phenylether	1900	U
118-74-1	Hexachlorobenzene	1900	U
1912-24-9	Atrazine	1900	U
87-86-5	Pentachlorophenol	3700	U
85-01-8	Phenanthrene	1900	U
120-12-7	Anthracene	1900	U
86-74-8	Carbazole	1900	U
84-74-2	Di-n-butylphthalate	1900	U
206-44-0	Fluoranthene	1900	U
129-00-0	Pyrene	1900	U
85-68-7	Butylbenzylphthalate	1900	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
56-55-3	Benzo(a)anthracene	1900	U
218-01-9	Chrysene	1900	U
117-81-7	Bis(2-ethylhexyl)phthalate	1900	U
117-84-0	Di-n-octylphthalate	1900	U
205-99-2	Benzo(b)fluoranthene	1900	U
207-08-9	Benzo(k)fluoranthene	1900	U
50-32-8	Benzo(a)pyrene	1900	U
193-39-5	Indeno(1,2,3-cd)pyrene	1900	U
53-70-3	Dibenzo(a,h)anthracene	1900	U
191-24-2	Benzo(g,h,i)perylene	1900	U
58-90-2	2,3,4,6-Tetrachlorophenol	1900	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9M38

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542019

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBM03F19

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 10.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.57	15000	JB
02	301-02-0	9-Octadecenamide, (Z)-	15.17	1500	JNB
03		Unknown Stigmast-4-en-3-one	24.63	1500	J
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[2]	Total Alkanes	N/A	3200	J

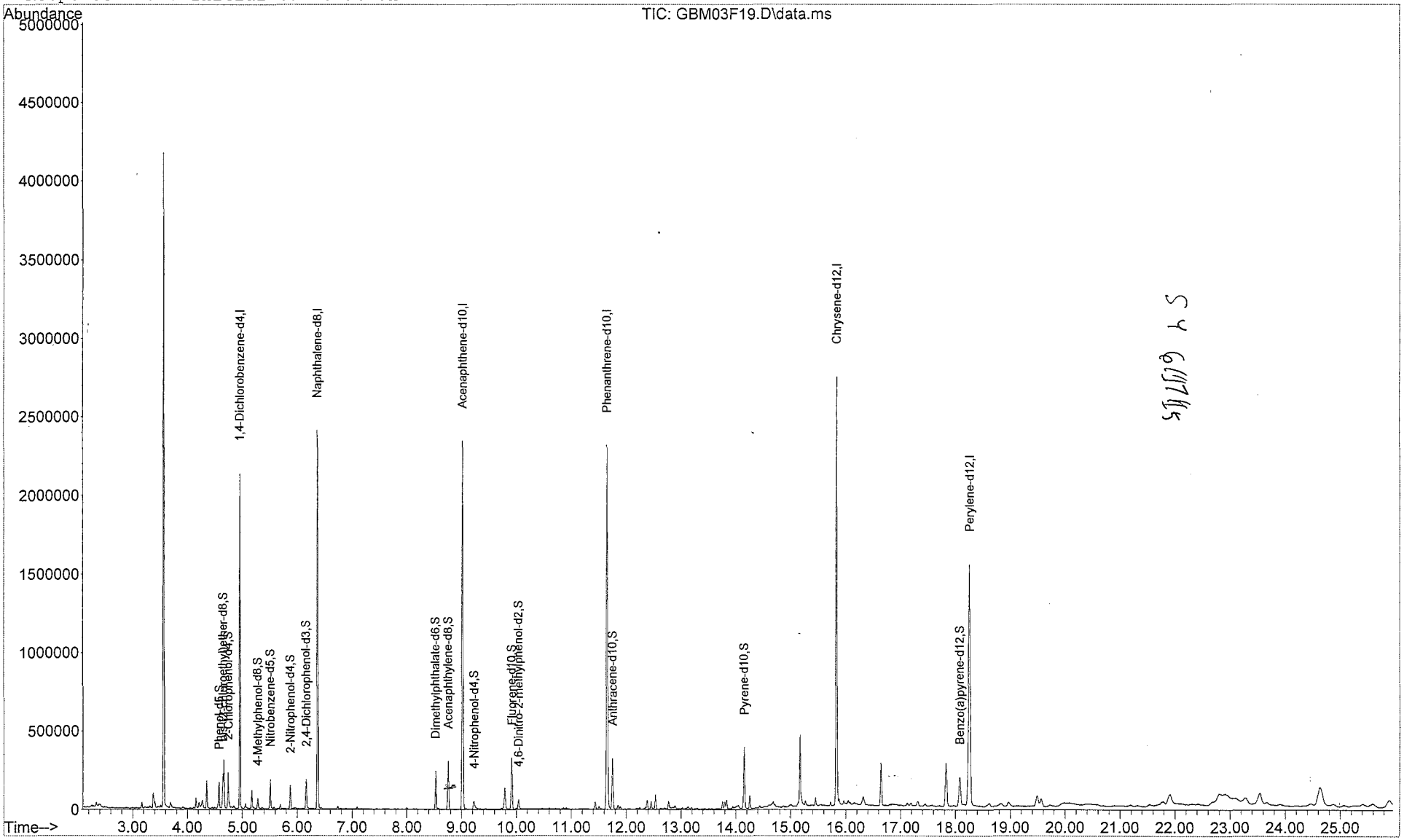
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM03F19.D Vial: 3
Acq On : 06/15/2015 17:31 Operator: DJC
Sample : 1515542019 F9M38 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 15 17:57:27 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM03F19.D Vial: 3
Acq On : 06/15/2015 17:31 Operator: DJC
Sample : 1515542019 F9M38 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 15 17:57:27 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	391164	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1492076	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	840698	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1347505	20.00 ug/ml
73) Chrysene-d12	15.83	240	1204310	20.00 ug/ml
81) Perylene-d12	18.26	264	1143557	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	69340	2.542ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	41683	2.496ug/mL
7) 2-Chlorophenol-d4	4.74	132	77434	2.891ug/ml
13) 4-Methylphenol-d8	5.28	113	18944	0.892ug/mL
17) Nitrobenzene-d5	5.51	128	35648	2.848ug/ml
21) 2-Nitrophenol-d4	5.87	143	40181	2.880ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	56739	2.776ug/mL
28) 4-Chloroaniline-d4	6.44	131	3447	0.155ug/mL
42) Dimethylphthalate-d6	8.53	166	160517	3.140ug/mL
45) Acenaphthylene-d8	8.76	160	204035	2.990ug/mL
50) 4-Nitrophenol-d4	9.23	143	26500	2.434ug/mL
57) Fluorene-d10	9.92	176	137467	3.096ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	15847	1.790ug/mL
69) Anthracene-d10	11.75	188	199497	2.927ug/mL
75) Pyrene-d10	14.15	212	175338	3.202ug/mL
86) Benzo(a)pyrene-d12	18.08	264	137454	2.650ug/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)\15JUN15\GBM03F19.D Vial: 3
Acq On : 06/15/2015 17:31 Operator: DJC
Sample : 1515542019 F9M38 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 15 17:57:27 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 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)

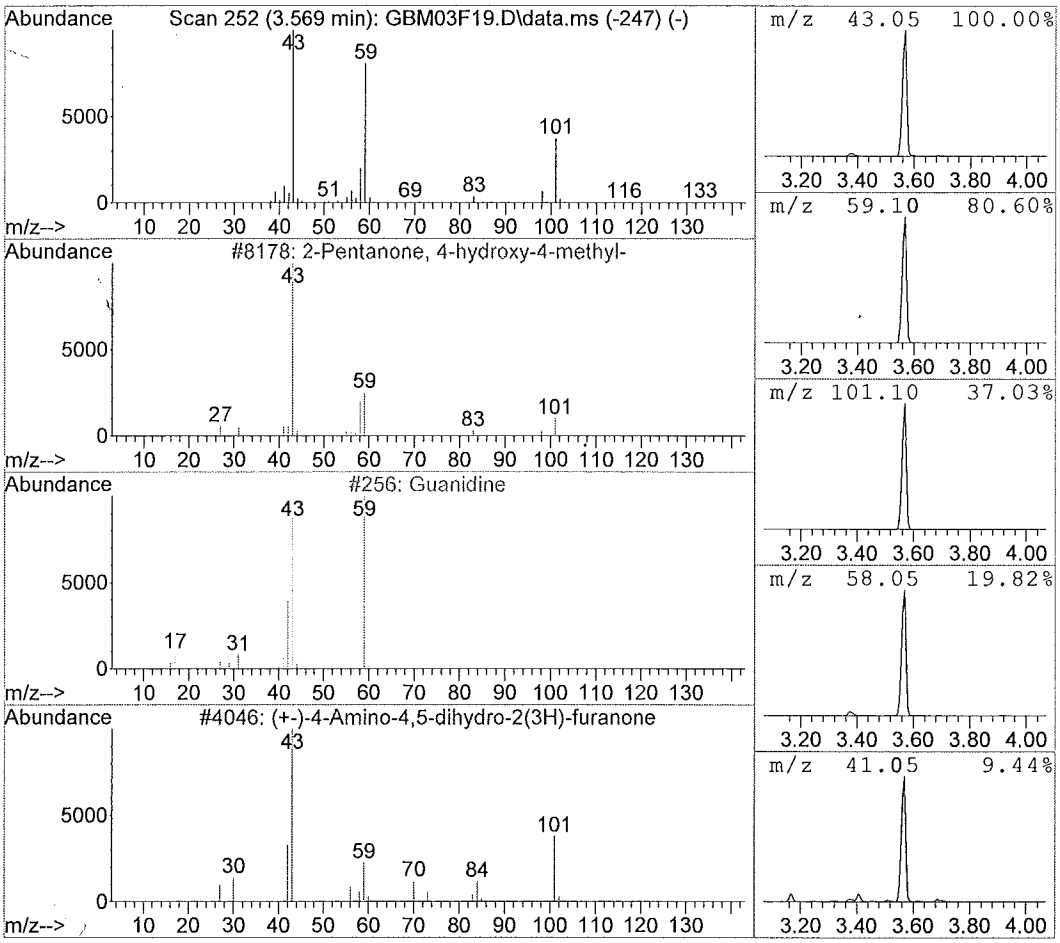
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM03F19.D Vial: 3
Acq On : 06/15/2015 17:31 Operator: DJC
Sample : 1515542019 F9M38 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.57	38.87 ug/ml	4199057	1,4-Dichlorobenzene-d4	2160597

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	47.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Morpholine, 4-methyl-	4084	000109-02-4	9.00



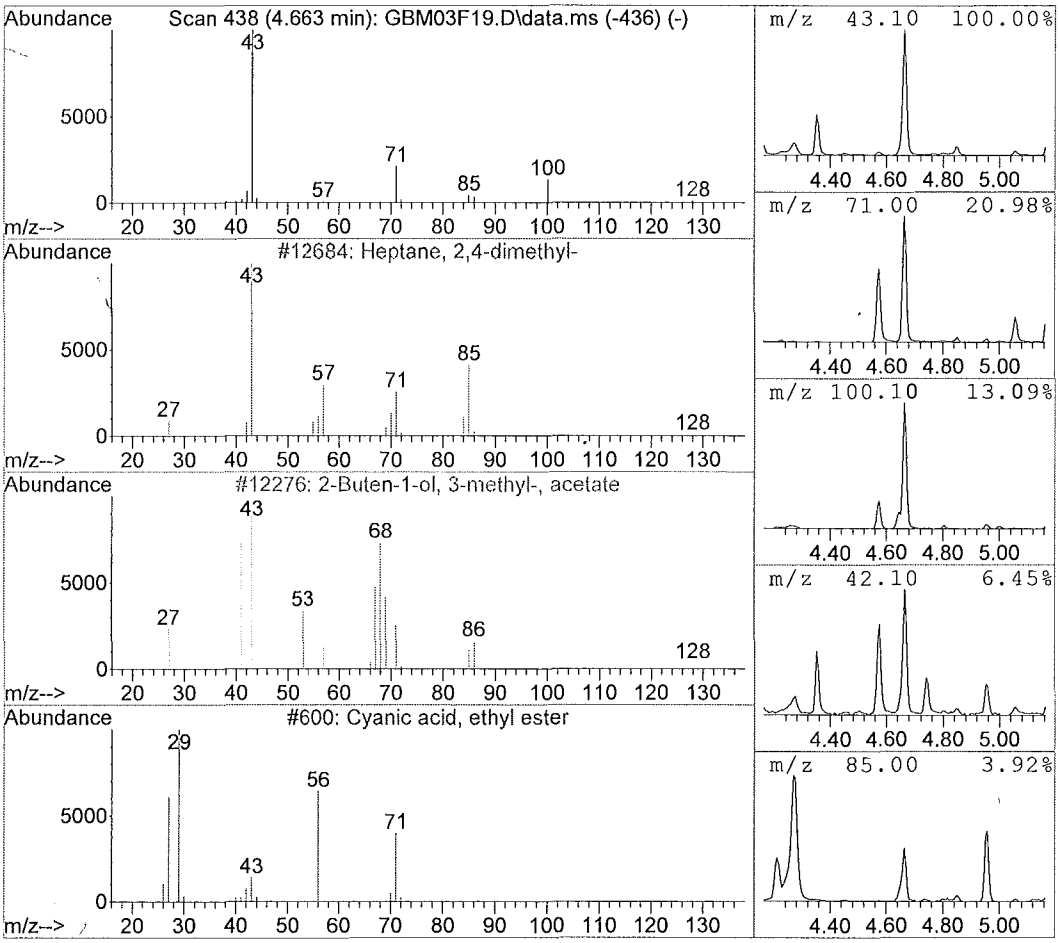
Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM03F19.D Vial: 3
Acq On : 06/15/2015 17:31 Operator: DJC
Sample : 1515542019 F9M38 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.66	2.61 ug/ml	281957	1,4-Dichlorobenzene-d4	2160597

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,4-dimethyl-	12684	002213-23-2	42.00
2	2-Buten-1-ol, 3-methyl-, acetate	12276	001191-16-8	9.00
3	Cyanic acid, ethyl ester	600	000627-48-5	9.00
4	Pentane, 2-methyl-	1823	000107-83-5	9.00
5	Heptane, 2,3-dimethyl-	12694	003074-71-3	9.00

BA

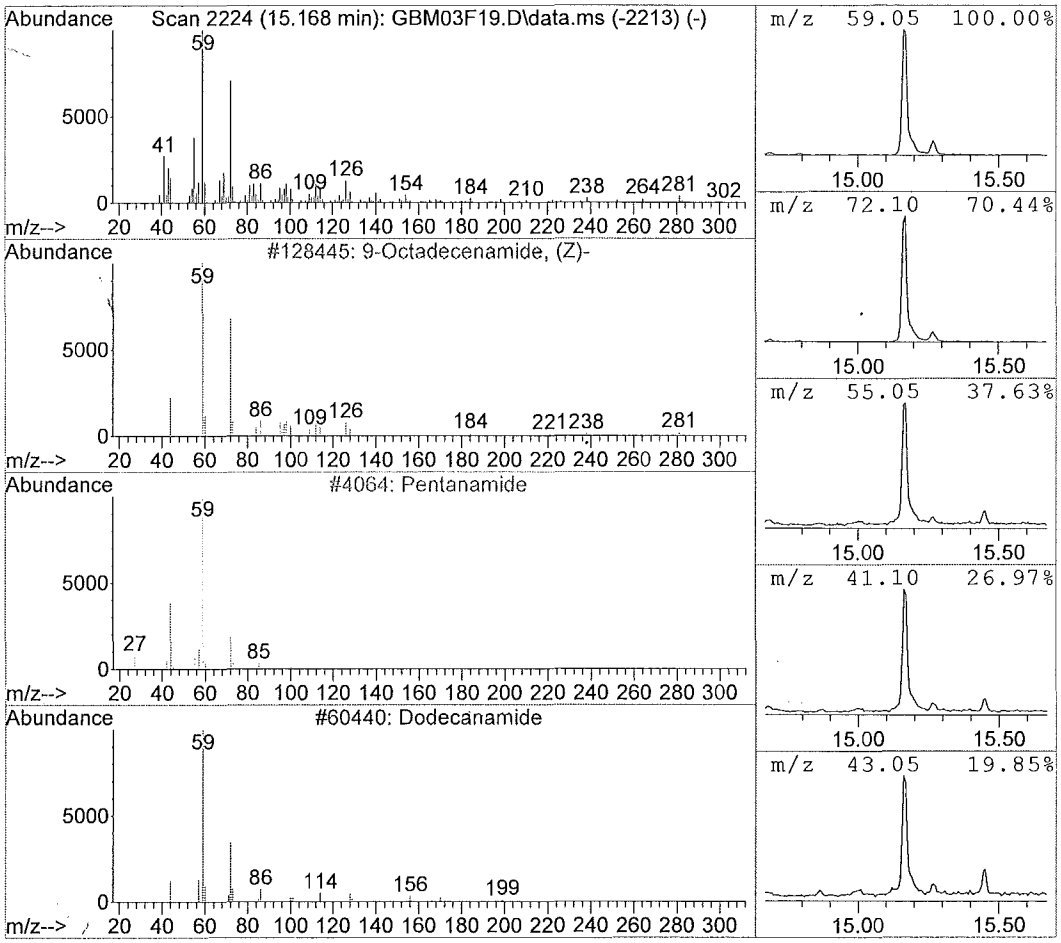


Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM03F19.D Vial: 3
Acq On : 06/15/2015 17:31 Operator: DJC
Sample : 1515542019 F9M38 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	3.96 ug/ml	676529	Chrysene-d12	3418019

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	Pentanamide	4064	000626-97-1	53.00
3	Dodecanamide	60440	001120-16-7	53.00
4	Octanamide	20317	000629-01-6	50.00
5	14-Hydroxy-14-methylpentadecanoic a	121120	091544-39-7	47.00



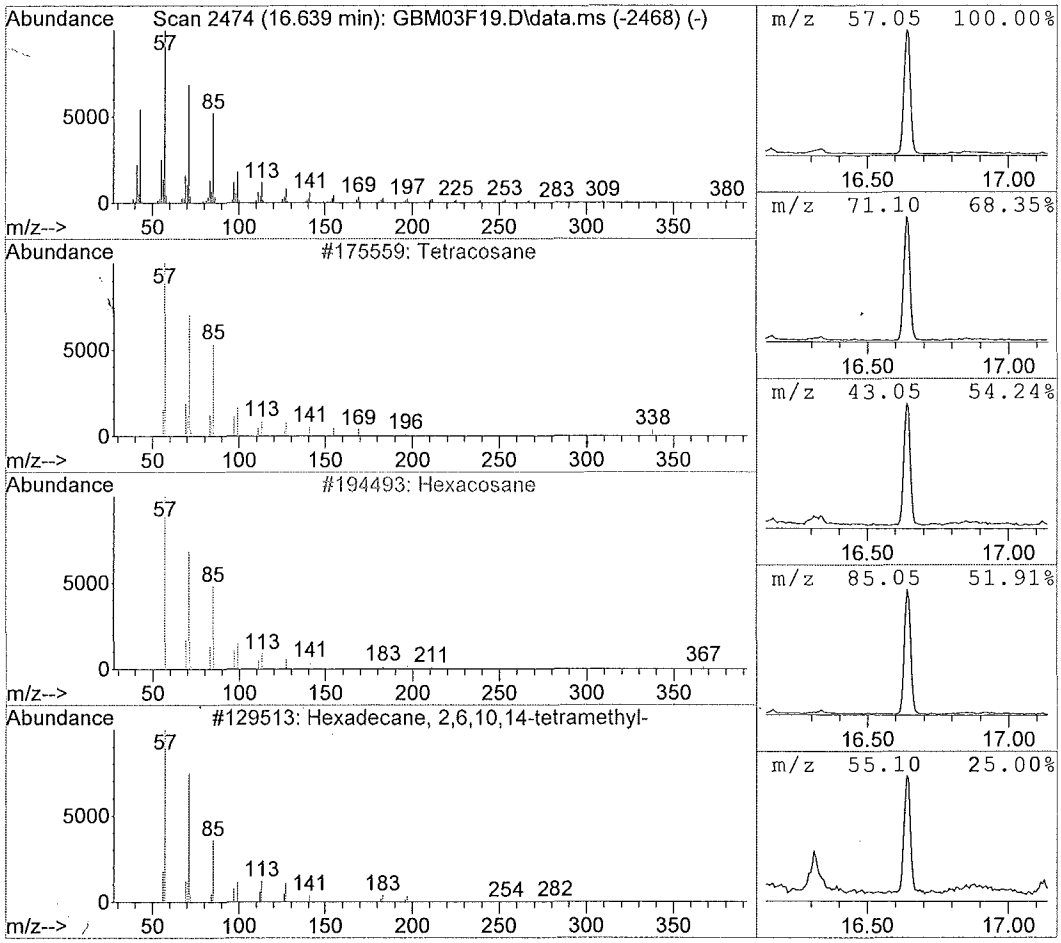
Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM03F19.D Vial: 3
Acq On : 06/15/2015 17:31 Operator: DJC
Sample : 1515542019 F9M38 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.64	2.47 ug/ml	421510	Chrysene-d12	3418019

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetracosane	175559	000646-31-1	94.00
2	Hexacosane	194493	000630-01-3	93.00
3	Hexadecane, 2,6,10,14-tetramethyl-	129513	000638-36-8	92.00
4	Heneicosane	141426	000629-94-7	91.00
5	2-methyloctacosane	215181	1000376-72-8	91.00

SA



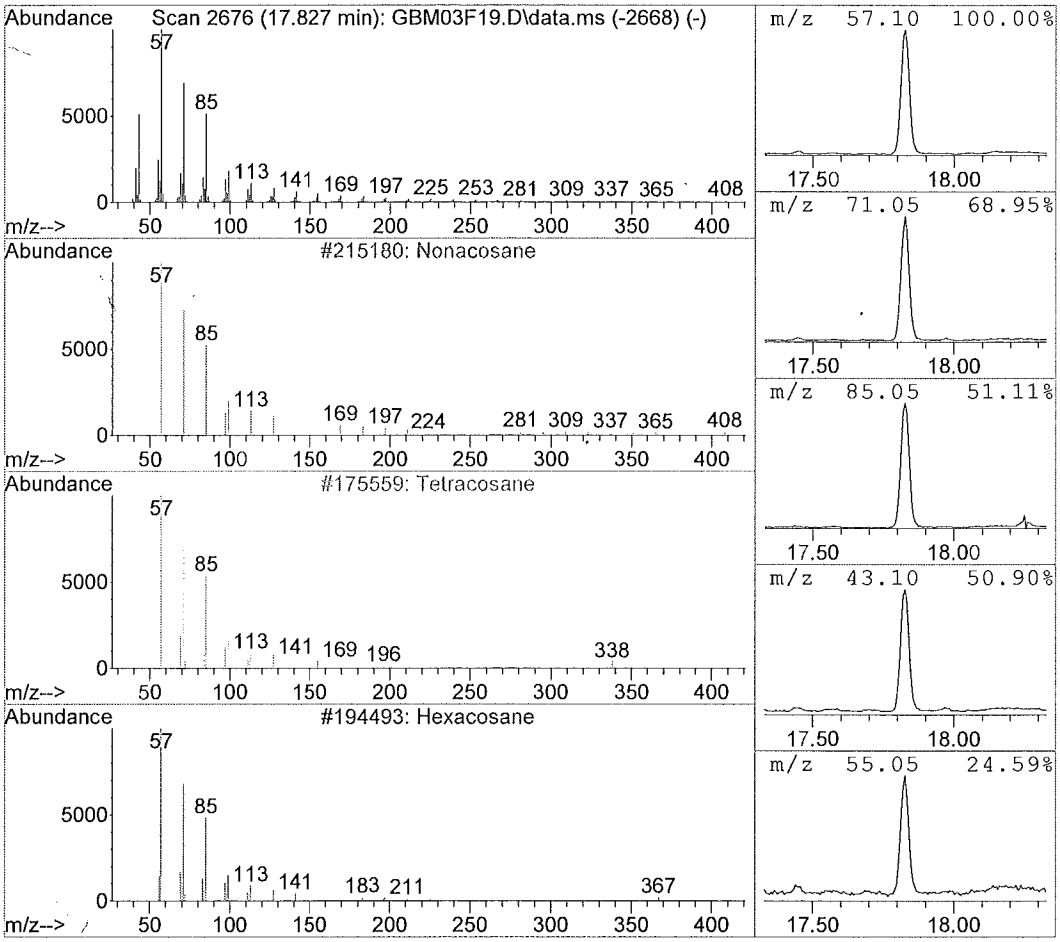
00501

Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM03F19.D Vial: 3
Acq On : 06/15/2015 17:31 Operator: DJC
Sample : 1515542019 F9M38 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.83	3.31 ug/ml	559130	Perylene-d12	3382668

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonacosane	215180	000630-03-5	97.00
2	Tetracosane	175559	000646-31-1	94.00
3	Hexacosane	194493	000630-01-3	93.00
4	Eicosane	129490	000112-95-8	91.00
5	2-methyloctacosane	215181	1000376-72-8	91.00

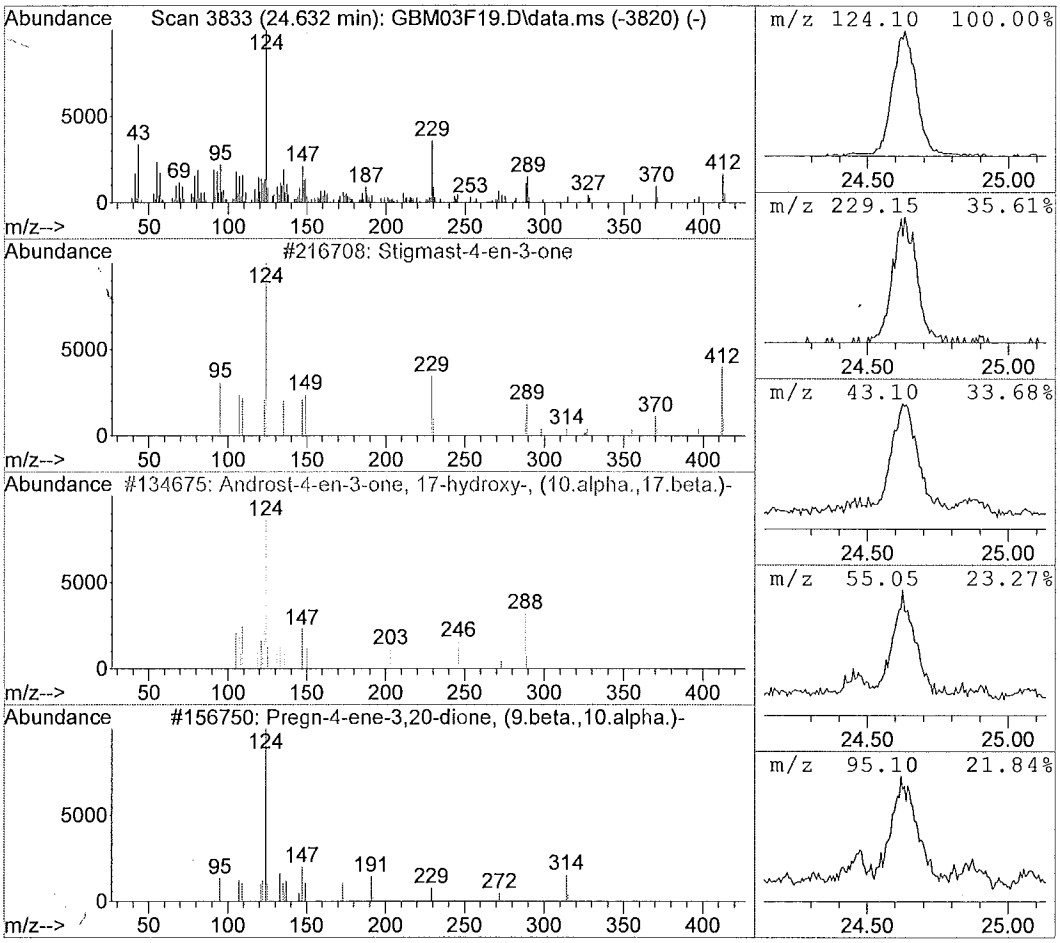


Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM03F19.D Vial: 3
Acq On : 06/15/2015 17:31 Operator: DJC
Sample : 1515542019 F9M38 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.63	4.06 ug/ml	687357	Perylene-d12	3382668

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmast-4-en-3-one	216708	001058-61-3	50.00
2	Androst-4-en-3-one, 17-hydroxy-, (1	134675	000604-39-7	47.00
3	Pregn-4-ene-3,20-dione, (9.beta.,10	156750	002755-10-4	47.00
4	Dichloroacetic acid, 4-methoxypheny	89516	1000307-58-6	38.00
5	1,4-Benzenediol, 2-methyl-	10430	000095-71-6	38.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M39

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542020

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GBM04F20

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015

GPC Cleanup: (Y/N) Y pH: 6.5 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	970	U
108-95-2	Phenol	970	U
111-44-4	Bis(2-chloroethyl)ether	970	U
95-57-8	2-Chlorophenol	970	U
95-48-7	2-Methylphenol	970	U
108-60-1	2,2'-Oxybis(1-chloropropane)	970	U
98-86-2	Acetophenone	970	U
106-44-5	4-Methylphenol	970	U
621-64-7	N-Nitroso-di-n-propylamine	970	U
67-72-1	Hexachloroethane	970	U
98-95-3	Nitrobenzene	970	U
78-59-1	Isophorone	970	U
88-75-5	2-Nitrophenol	970	U
105-67-9	2,4-Dimethylphenol	970	U
111-91-1	Bis(2-chloroethoxy)methane	970	U
120-83-2	2,4-Dichlorophenol	970	U
91-20-3	Naphthalene	970	U
106-47-8	4-Chloroaniline	970	U
87-68-3	Hexachlorobutadiene	970	U
105-60-2	Caprolactam	970	U
59-50-7	4-Chloro-3-methylphenol	970	U
91-57-6	2-Methylnaphthalene	970	U
77-47-4	Hexachlorocyclopentadiene	970	U
88-06-2	2,4,6-Trichlorophenol	970	U
95-95-4	2,4,5-Trichlorophenol	970	U
92-52-4	1,1'-Biphenyl	970	U
91-58-7	2-Chloronaphthalene	970	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	970	U
606-20-2	2,6-Dinitrotoluene	970	U
208-96-8	Acenaphthylene	970	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	970	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M39

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542020

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GBM04F20

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015

GPC Cleanup: (Y/N) Y pH: 6.5 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	970	U
121-14-2	2,4-Dinitrotoluene	970	U
84-66-2	Diethylphthalate	970	U
86-73-7	Fluorene	970	U
7005-72-3	4-Chlorophenyl-phenylether	970	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine[1]	970	U
95-94-3	1,2,4,5-Tetrachlorobenzene	970	U
101-55-3	4-Bromophenyl-phenylether	970	U
118-74-1	Hexachlorobenzene	970	U
1912-24-9	Atrazine	970	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	970	U
120-12-7	Anthracene	970	U
86-74-8	Carbazole	970	U
84-74-2	Di-n-butylphthalate	970	U
206-44-0	Fluoranthene	970	U
129-00-0	Pyrene	970	U
85-68-7	Butylbenzylphthalate	970	U
91-94-1	3,3'-Dichlorobenzidine	970	U
56-55-3	Benzo(a)anthracene	970	U
218-01-9	Chrysene	970	U
117-81-7	Bis(2-ethylhexyl)phthalate	970	U
117-84-0	Di-n-octylphthalate	970	U
205-99-2	Benzo(b)fluoranthene	970	U
207-08-9	Benzo(k)fluoranthene	970	U
50-32-8	Benzo(a)pyrene	970	U
193-39-5	Indeno(1,2,3-cd)pyrene	970	U
53-70-3	Dibenzo(a,h)anthracene	970	U
191-24-2	Benzo(g,h,i)perylene	970	U
58-90-2	2,3,4,6-Tetrachlorophenol	970	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M39

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542020
Sample wt/vol: 30.1 (g/mL) g Lab File ID: GBM04F20
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 13. Decanted: (Y/N) N Date Received: 06/03/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015
GPC Cleanup: (Y/N) Y pH: 6.5 Dilution Factor: 5.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.57	11000	JB
02	301-02-0	9-Octadecenamide, (Z)-	15.17	1500	JNB
03		Unknown 1-Methyl-2,4,6-tris(cyclopentyl)benzene	18.82	1700	J
04		Unknown Phosphine, methyl-(2,4,6-triisopropylphe	21.31	680	J
05		Unknown 1,1,4a-Trimethyl-5,6-dimethylenedecahydr	21.54	390	J
06		Unknown Hexadecanoic acid, 4-nitrophenyl ester	21.74	630	J
07		Unknown [2.2]Paracyclophane	23.70	2500	J
08		Unknown Stigmast-4-en-3-one	24.63	400	J
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	1600	J

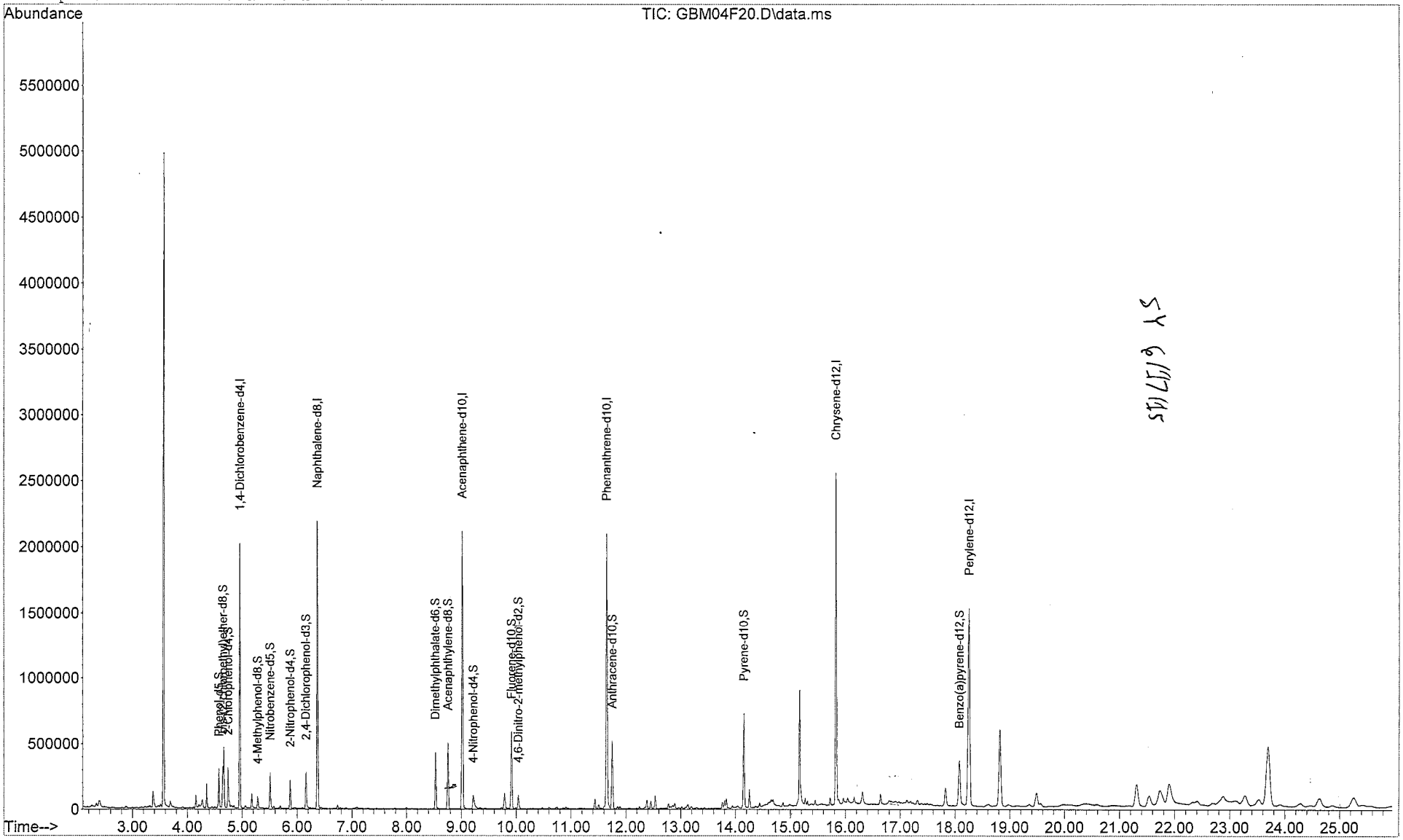
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM04F20.D Vial: 4
Acq On : 06/15/2015 18:04 Operator: DJC
Sample : 1515542020 F9M39 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 15 18:30:12 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM04F20.D Vial: 4
Acq On : 06/15/2015 18:04 Operator: DJC
Sample : 1515542020 F9M39 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 15 18:30:12 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	357261	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1351964	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	758406	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1230757	20.00 ug/ml
73) Chrysene-d12	15.83	240	1165903	20.00 ug/ml
81) Perylene-d12	18.26	264	1150909	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	115977	4.655ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	58994	3.867ug/mL
7) 2-Chlorophenol-d4	4.74	132	106816	4.367ug/ml
13) 4-Methylphenol-d8	5.28	113	24381	1.257ug/mL
17) Nitrobenzene-d5	5.51	128	52863	4.660ug/ml
21) 2-Nitrophenol-d4	5.87	143	60376	4.776ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	85001	4.590ug/mL
28) 4-Chloroaniline-d4	6.44	131	4881	0.243ug/mL
42) Dimethylphthalate-d6	8.53	166	281853	6.111ug/mL
45) Acenaphthylene-d8	8.76	160	339436	5.514ug/mL
50) 4-Nitrophenol-d4	9.22	143	51644	5.258ug/mL
57) Fluorene-d10	9.92	176	239146	5.969ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	25815	3.193ug/mL
69) Anthracene-d10	11.75	188	328513	5.277ug/mL
75) Pyrene-d10	14.15	212	322716	6.088ug/mL
86) Benzo(a)pyrene-d12	18.08	264	253059	4.847ug/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)

00508

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM04F20.D Vial: 4
Acq On : 06/15/2015 18:04 Operator: DJC
Sample : 1515542020 F9M39 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 15 18:30:12 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 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)

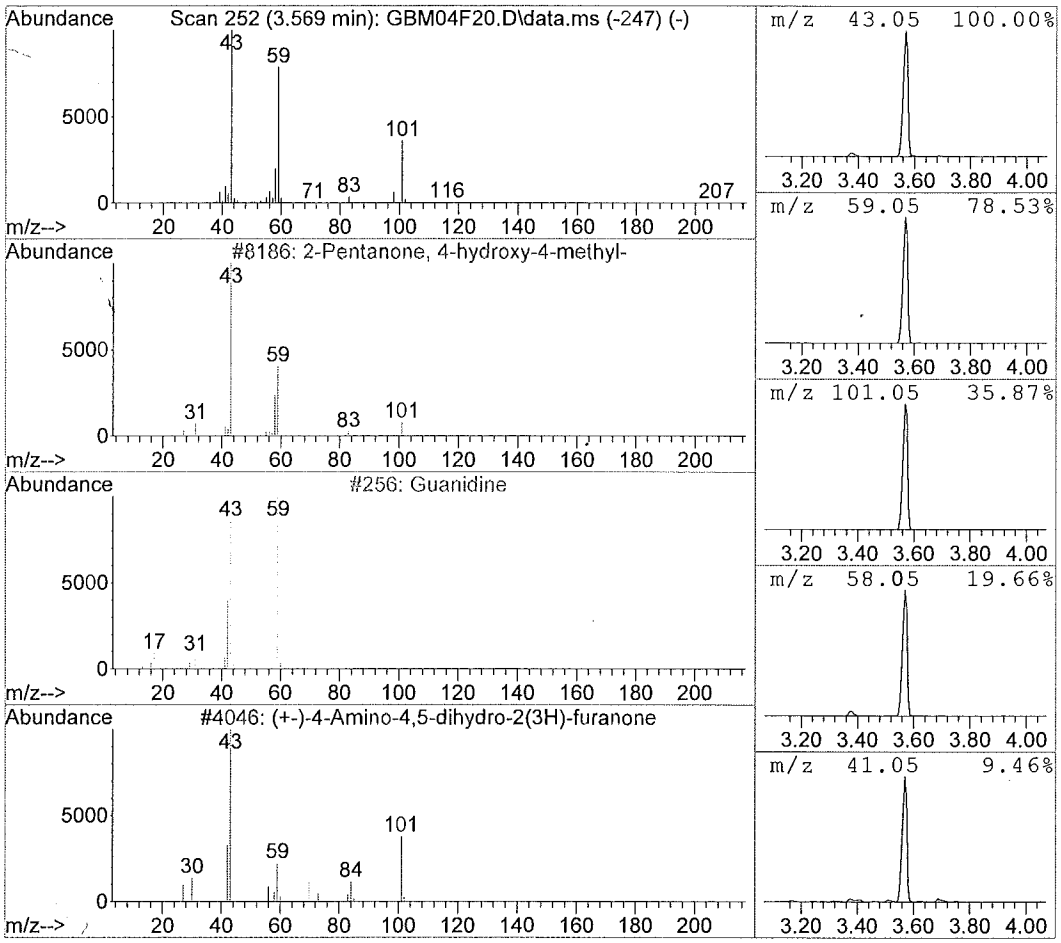
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM04F20.D Vial: 4
Acq On : 06/15/2015 18:04 Operator: DJC
Sample : 1515542020 F9M39 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.57	56.43 ug/ml	5576502	1,4-Dichlorobenzene-d4	1976419

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	47.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Acetone	217	000067-64-1	9.00



Library Search Compound Report

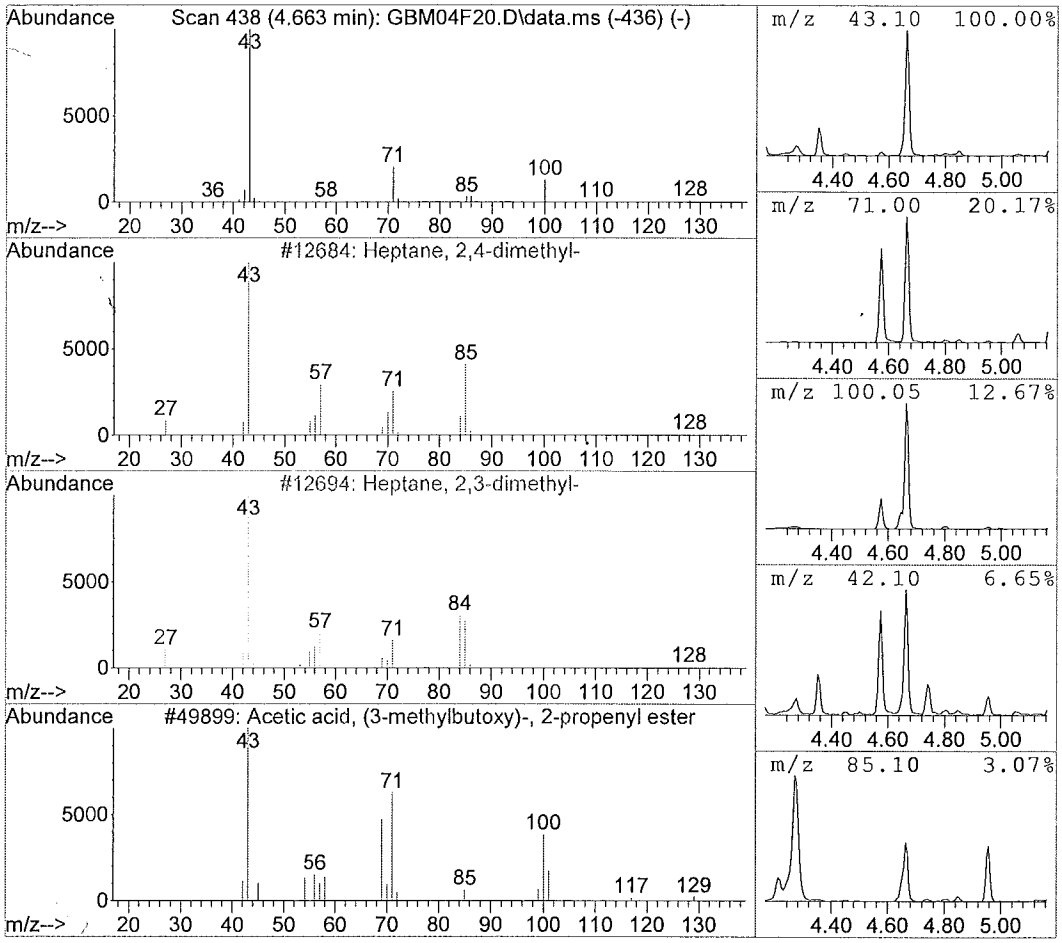
Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM04F20.D Vial: 4
Acq On : 06/15/2015 18:04 Operator: DJC
Sample : 1515542020 F9M39 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.66	4.32 ug/ml	427016	1,4-Dichlorobenzene-d4	1976419

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,4-dimethyl-	12684	002213-23-2	45.00
2	Heptane, 2,3-dimethyl-	12694	003074-71-3	9.00
3	Acetic acid, (3-methylbutoxy)-, 2-p	49899	067634-00-8	9.00
4	3-Hexanone, 5-hydroxy-2-methyl-	13493	059357-07-2	9.00
5	Octane, 4-methyl-	12674	002216-34-4	7.00

BA

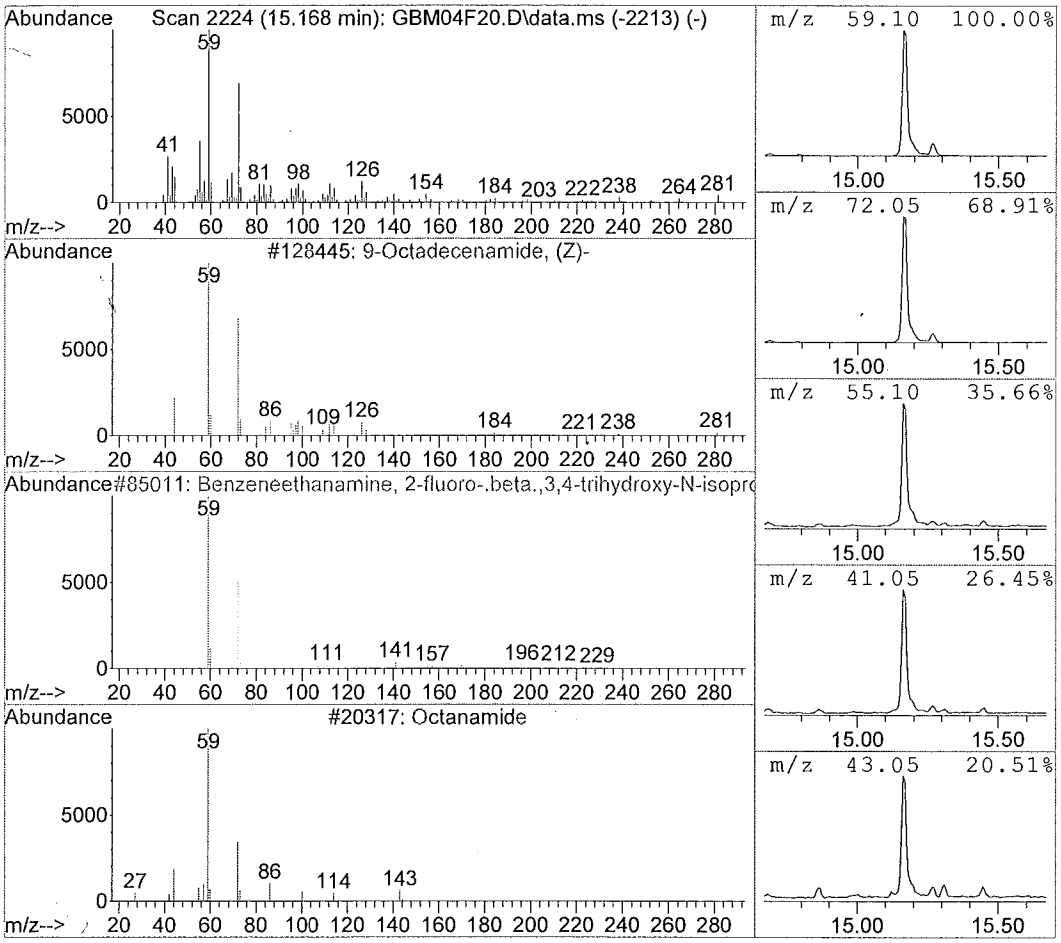


Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM04F20.D Vial: 4
Acq On : 06/15/2015 18:04 Operator: DJC
Sample : 1515542020 F9M39 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	7.69 ug/ml	1275184	Chrysene-d12	3316531

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	53.00
3	Octanamide	20317	000629-01-6	50.00
4	Hexadecanamide	106564	000629-54-9	50.00
5	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	47.00

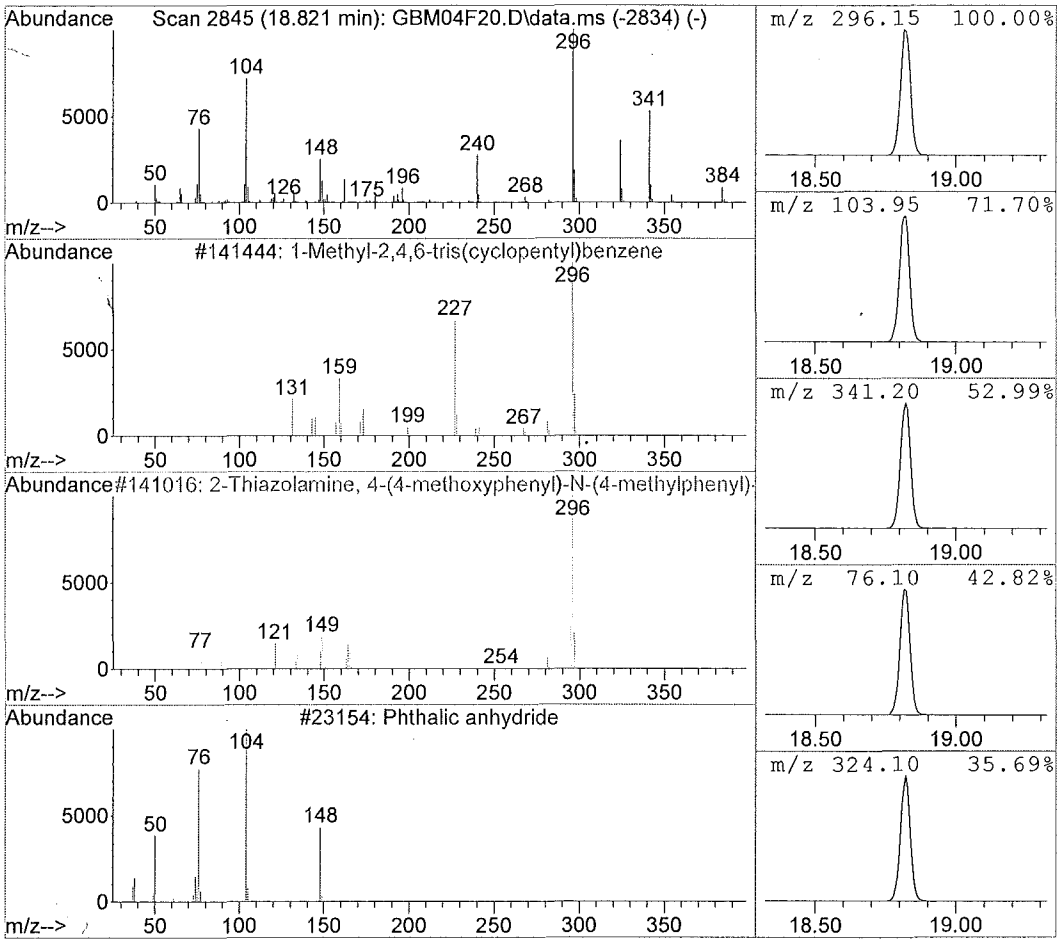


Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM04F20.D Vial: 4
Acq On : 06/15/2015 18:04 Operator: DJC
Sample : 1515542020 F9M39 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.82	8.74 ug/ml	1472932	Perylene-d12	3370495

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Methyl-2,4,6-tris(cyclopentyl)ben	141444	100325-74-4	14.00
2	2-Thiazolamine, 4-(4-methoxyphenyl)	141016	1000319-57-2	14.00
3	Phthalic anhydride	23154	000085-44-9	12.00
4	1,2-Benzenedicarboxylic acid	35572	000088-99-3	12.00
5	1H-Indole, 1,3-dimethyl-5,6-dimetho	177669	156785-76-1	11.00

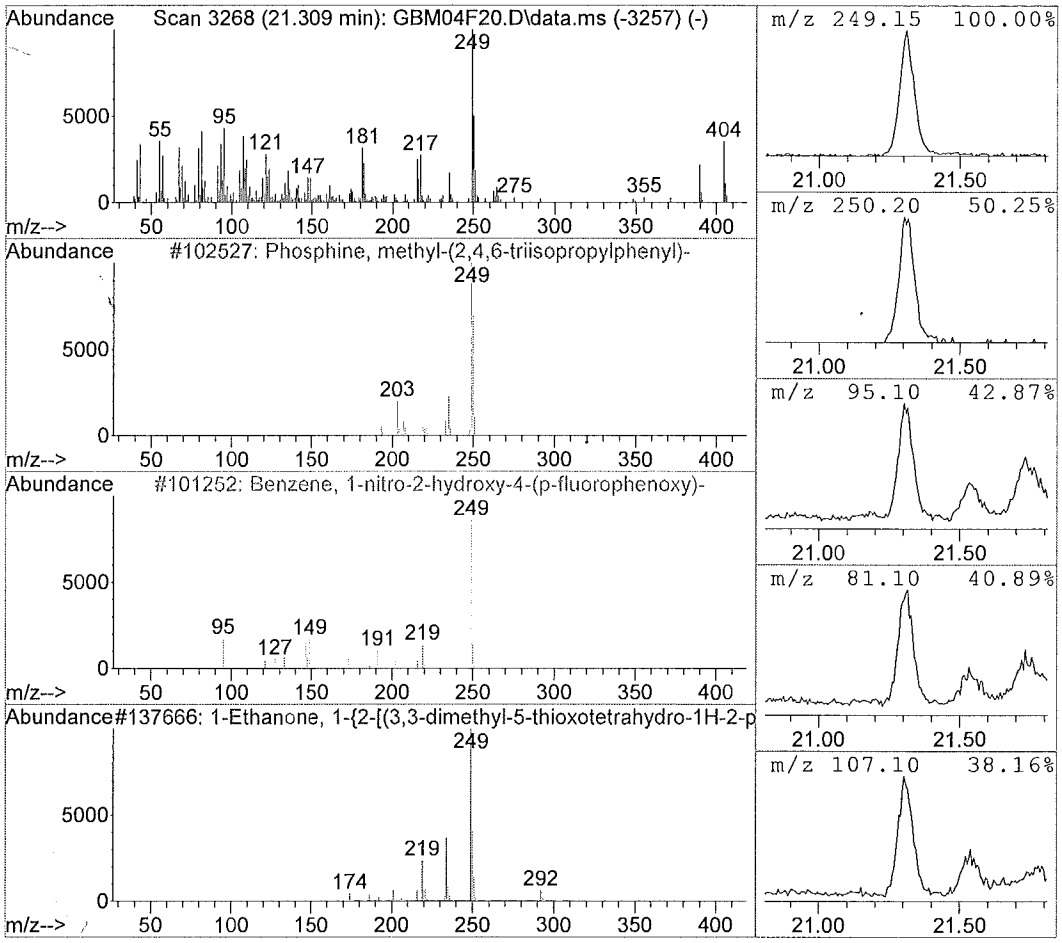


Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM04F20.D Vial: 4
Acq On : 06/15/2015 18:04 Operator: DJC
Sample : 1515542020 F9M39 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.31	3.56 ug/ml	600566	Perylene-d12	3370495

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phosphine, methyl-(2,4,6-triisoprop	102527	158748-69-7	38.00
2	Benzene, 1-nitro-2-hydroxy-4-(p-flu	101252	189214-56-0	35.00
3	1-Ethanone, 1-{2-[(3,3-dimethyl-5-t	137666	077109-20-7	32.00
4	7H-Benzo(c)phenothiazine	101518	000226-06-2	25.00
5	2-Methylphenanthro[3,4-d][1,3]oxazo	101514	098033-24-0	25.00

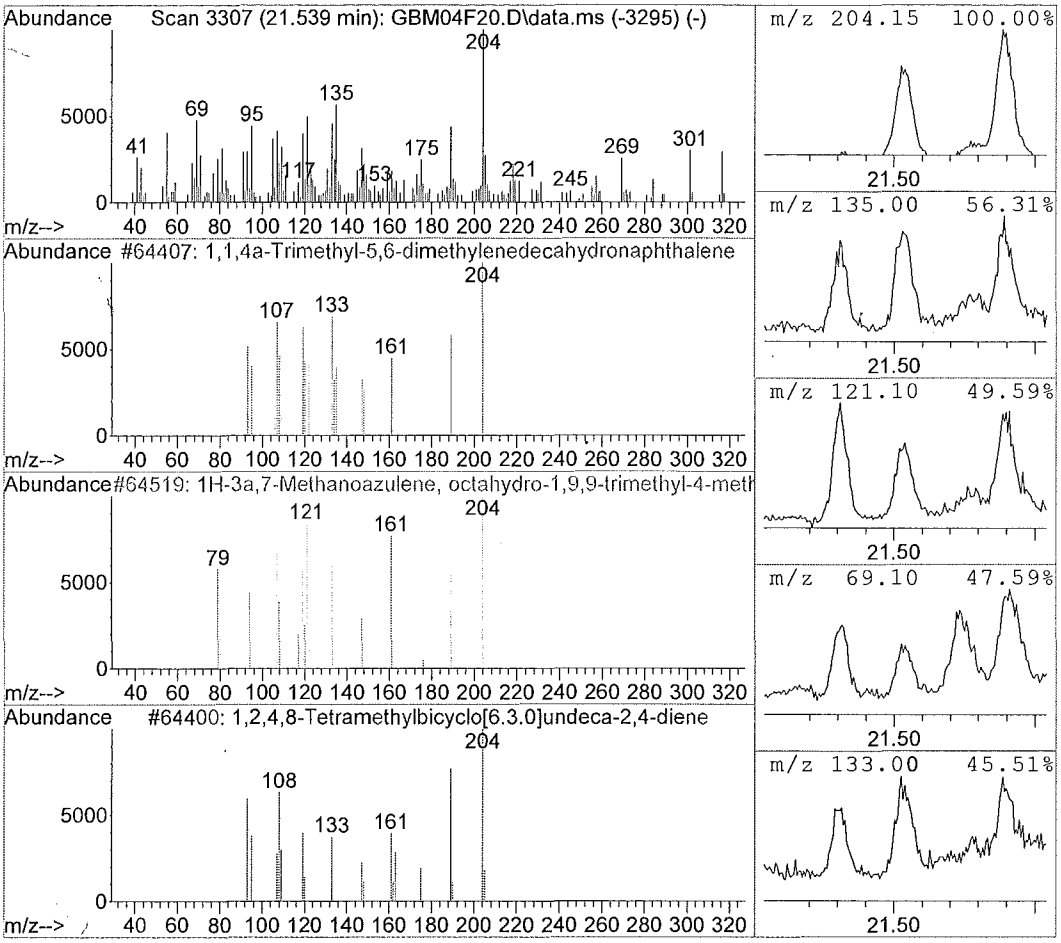


Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM04F20.D Vial: 4
Acq On : 06/15/2015 18:04 Operator: DJC
Sample : 1515542020 F9M39 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.54	2.07 ug/ml	349427	Perylene-d12	3370495

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,1,4a-Trimethyl-5,6-dimethylenedec	64407	1000193-60-8	64.00
2	1H-3a,7-Methanoazulene, octahydro-1	64519	000508-55-4	64.00
3	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	53.00
4	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	49.00
5	1H-3a,7-Methanoazulene, 2,3,6,7,8,8	64540	000560-32-7	47.00



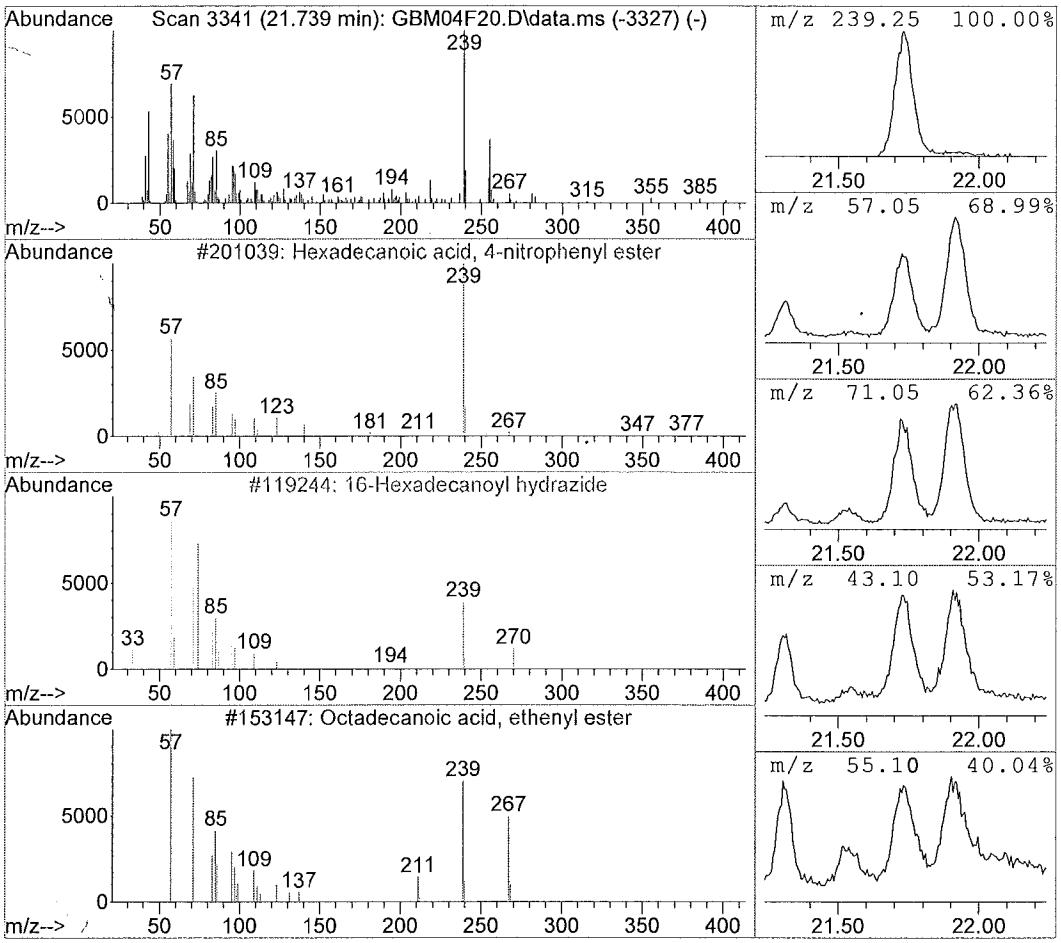
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM04F20.D Vial: 4
Acq On : 06/15/2015 18:04 Operator: DJC
Sample : 1515542020 F9M39 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.74	3.32 ug/ml	559108	Perylene-d12	3370495

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, 4-nitrophenyl es	201039	001492-30-4	53.00
2	16-Hexadecanoyl hydrazide	119244	002619-88-7	49.00
3	Octadecanoic acid, ethenyl ester	153147	000111-63-7	27.00
4	Palmitic acid vinyl ester	129350	000693-38-9	27.00
5	Phthalic acid, 4-methoxyphenyl 2-me	191934	1000315-59-5	25.00



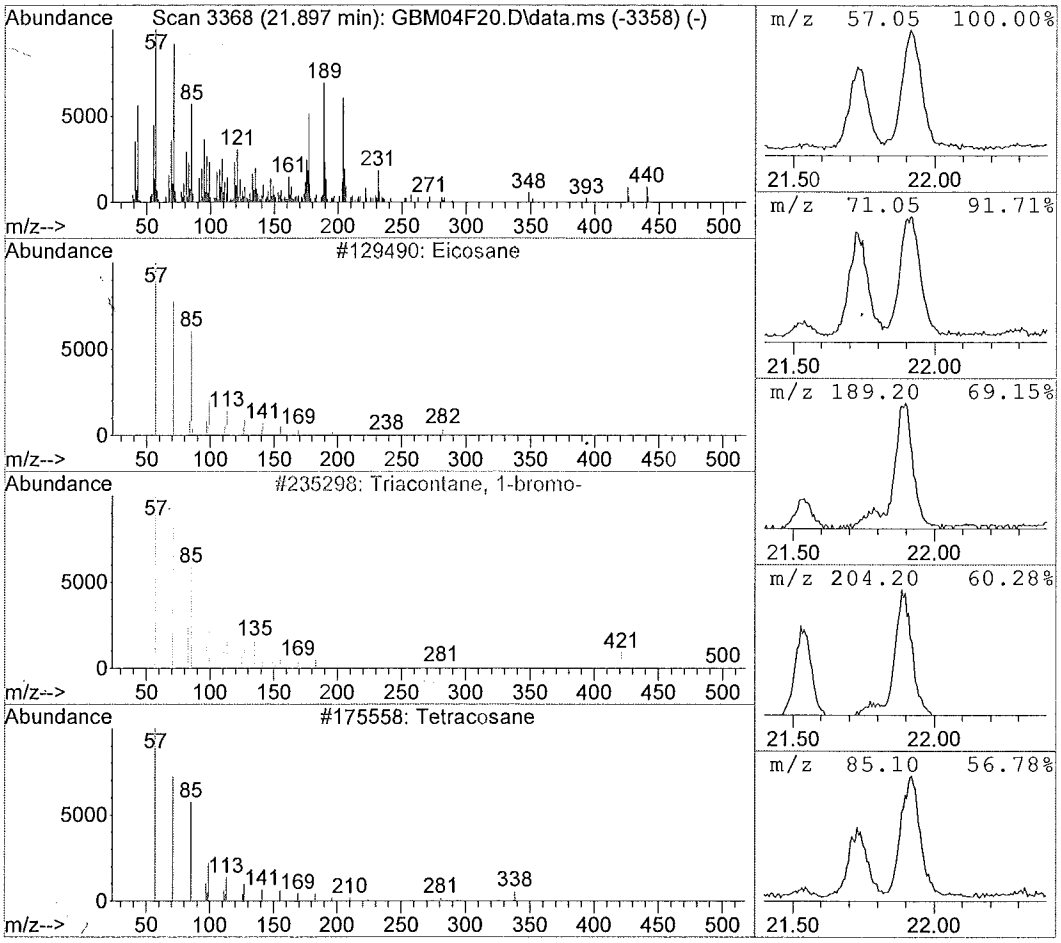
Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM04F20.D Vial: 4
Acq On : 06/15/2015 18:04 Operator: DJC
Sample : 1515542020 F9M39 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.90	4.25 ug/ml	716346	Perylene-d12	3370495

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane	129490	000112-95-8	56.00
2	Triacontane, 1-bromo-	235298	004209-22-7	42.00
3	Tetracosane	175558	000646-31-1	42.00
4	Heneicosane	141424	000629-94-7	42.00
5	Hexacosane	194494	000630-01-3	38.00

SA



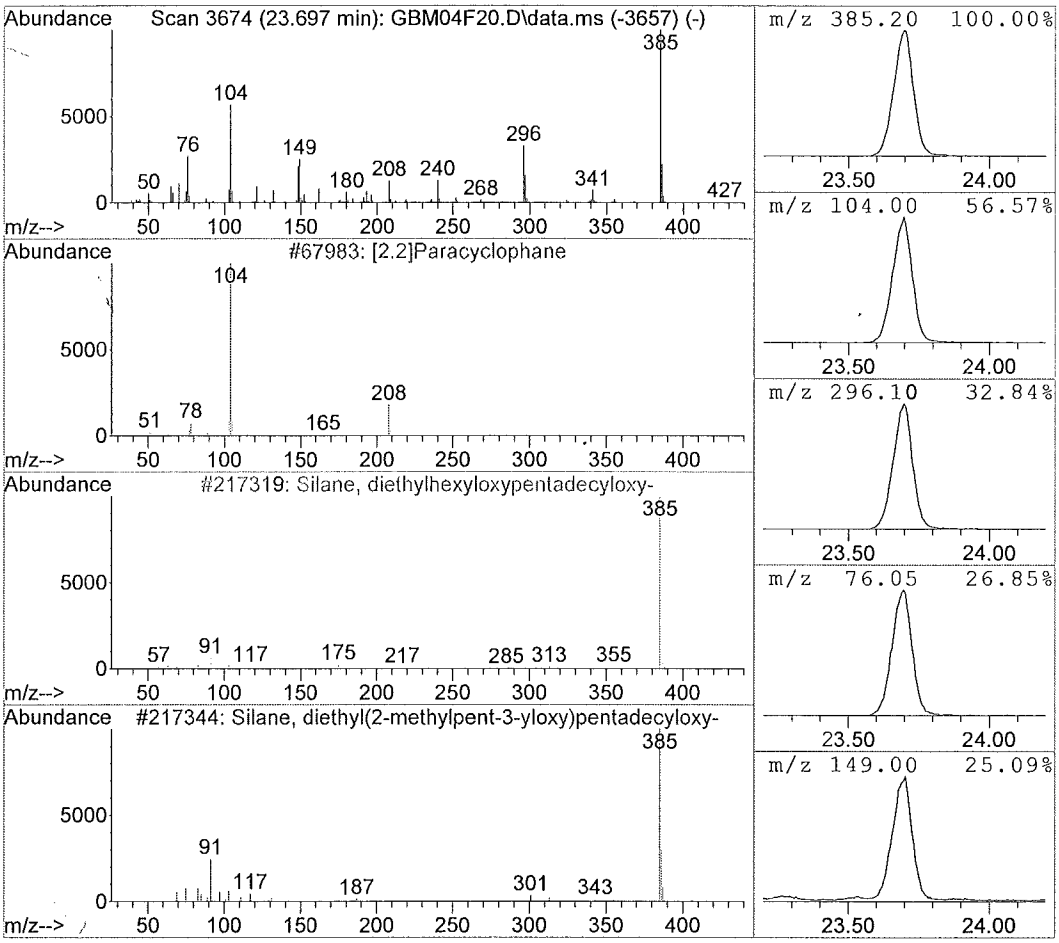
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM04F20.D Vial: 4
Acq On : 06/15/2015 18:04 Operator: DJC
Sample : 1515542020 F9M39 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.70	12.99 ug/ml	2189012	Perylene-d12	3370495

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	[2.2]Paracyclophane	67983	001633-22-3	15.00
2	Silane, diethylhexyloxypentadecylox	217319	1000363-74-3	12.00
3	Silane, diethyl(2-methylpent-3-ylox	217344	1000363-78-6	12.00
4	Silane, diethylisohexyloxypentadecy	217327	1000363-32-2	12.00
5	(+)-Diethyl L-tartrate	66417	000087-91-2	10.00

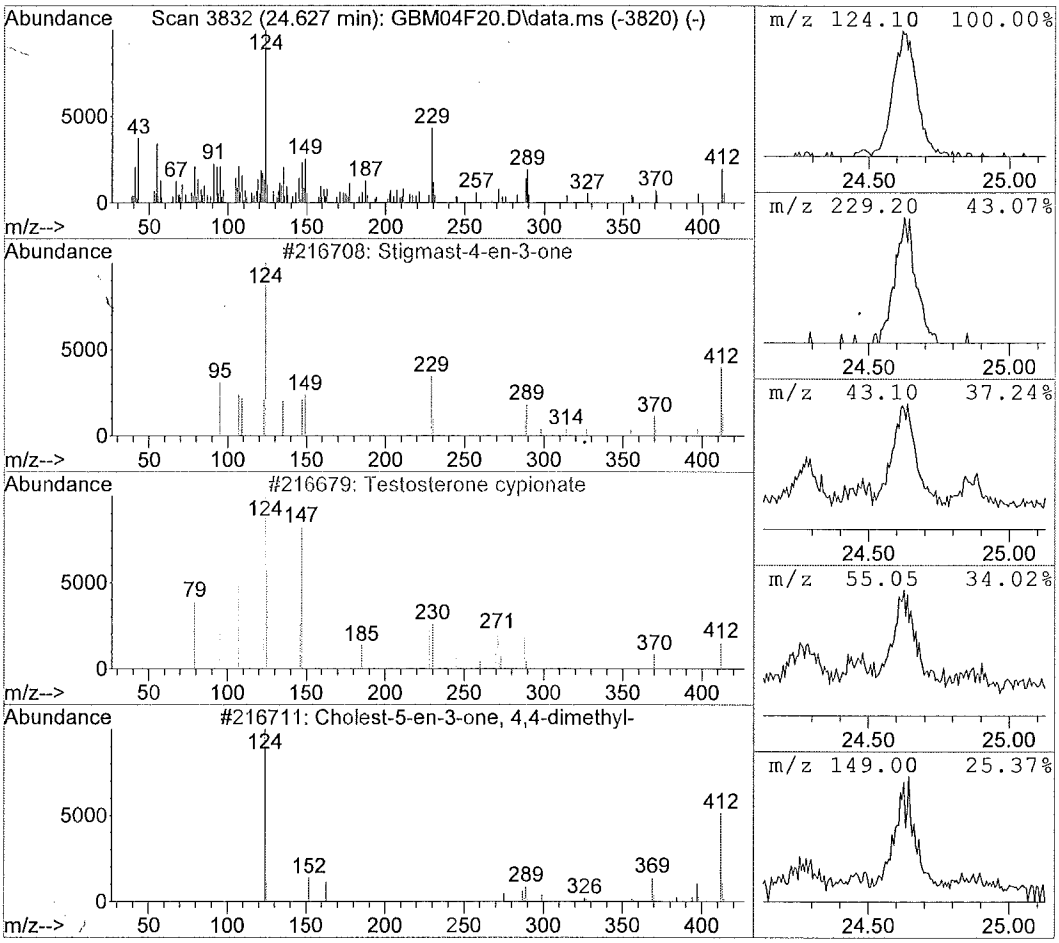


Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM04F20.D Vial: 4
Acq On : 06/15/2015 18:04 Operator: DJC
Sample : 1515542020 F9M39 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.63	2.10 ug/ml	353528	Perylene-d12	3370495

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmast-4-en-3-one	216708	001058-61-3	58.00
2	Testosterone cypionate	216679	000058-20-8	51.00
3	Cholest-5-en-3-one, 4,4-dimethyl-	216711	002220-42-0	38.00
4	Pregn-4-ene-3,20-dione, (9.beta.,10	156750	002755-10-4	38.00
5	Testosterone	134630	000058-22-0	35.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M40

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542021

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GBM05F21

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	1900	U
108-95-2	Phenol	1900	U
111-44-4	Bis(2-chloroethyl)ether	1900	U
95-57-8	2-Chlorophenol	1900	U
95-48-7	2-Methylphenol	1900	U
108-60-1	2,2'-Oxybis(1-chloropropane)	1900	U
98-86-2	Acetophenone	1900	U
106-44-5	4-Methylphenol	1900	U
621-64-7	N-Nitroso-di-n-propylamine	1900	U
67-72-1	Hexachloroethane	1900	U
98-95-3	Nitrobenzene	1900	U
78-59-1	Isophorone	1900	U
88-75-5	2-Nitrophenol	1900	U
105-67-9	2,4-Dimethylphenol	1900	U
111-91-1	Bis(2-chloroethoxy)methane	1900	U
120-83-2	2,4-Dichlorophenol	1900	U
91-20-3	Naphthalene	1900	U
106-47-8	4-Chloroaniline	1900	U
87-68-3	Hexachlorobutadiene	1900	U
105-60-2	Caprolactam	1900	U
59-50-7	4-Chloro-3-methylphenol	1900	U
91-57-6	2-Methylnaphthalene	1900	U
77-47-4	Hexachlorocyclopentadiene	1900	U
88-06-2	2,4,6-Trichlorophenol	1900	U
95-95-4	2,4,5-Trichlorophenol	1900	U
92-52-4	1,1'-Biphenyl	1900	U
91-58-7	2-Chloronaphthalene	1900	U
88-74-4	2-Nitroaniline	3700	U
131-11-3	Dimethylphthalate	1900	U
606-20-2	2,6-Dinitrotoluene	1900	U
208-96-8	Acenaphthylene	1900	U
99-09-2	3-Nitroaniline	3700	U
83-32-9	Acenaphthene	1900	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M40

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542021

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GBM05F21

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	3700	U
100-02-7	4-Nitrophenol	3700	U
132-64-9	Dibenzofuran	1900	U
121-14-2	2,4-Dinitrotoluene	1900	U
84-66-2	Diethylphthalate	1900	U
86-73-7	Fluorene	1900	U
7005-72-3	4-Chlorophenyl-phenylether	1900	U
100-01-6	4-Nitroaniline	3700	U
534-52-1	4,6-Dinitro-2-methylphenol	3700	U
86-30-6	N-Nitrosodiphenylamine[1]	1900	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1900	U
101-55-3	4-Bromophenyl-phenylether	1900	U
118-74-1	Hexachlorobenzene	1900	U
1912-24-9	Atrazine	1900	U
87-86-5	Pentachlorophenol	3700	U
85-01-8	Phenanthrene	320	J
120-12-7	Anthracene	1900	U
86-74-8	Carbazole	1900	U
84-74-2	Di-n-butylphthalate	1900	U
206-44-0	Fluoranthene	480	J
129-00-0	Pyrene	410	J
85-68-7	Butylbenzylphthalate	1900	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
56-55-3	Benzo(a)anthracene	310	J
218-01-9	Chrysene	300	J
117-81-7	Bis(2-ethylhexyl)phthalate	600	J
117-84-0	Di-n-octylphthalate	1900	U
205-99-2	Benzo(b)fluoranthene	420	J
207-08-9	Benzo(k)fluoranthene	160	J
50-32-8	Benzo(a)pyrene	260	J
193-39-5	Indeno(1,2,3-cd)pyrene	220	J
53-70-3	Dibenzo(a,h)anthracene	1900	U
191-24-2	Benzo(g,h,i)perylene	1900	U
58-90-2	2,3,4,6-Tetrachlorophenol	1900	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M40

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542021
Sample wt/vol: 30.4 (g/mL) g Lab File ID: GBM05F21
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 13. Decanted: (Y/N) N Date Received: 06/03/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015
GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 10.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Guanidine	3.56	12000	J
02	301-02-0	9-Octadecenamide, (Z)-	15.16	1100	JNB
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[2]	Total Alkanes	N/A	960	J

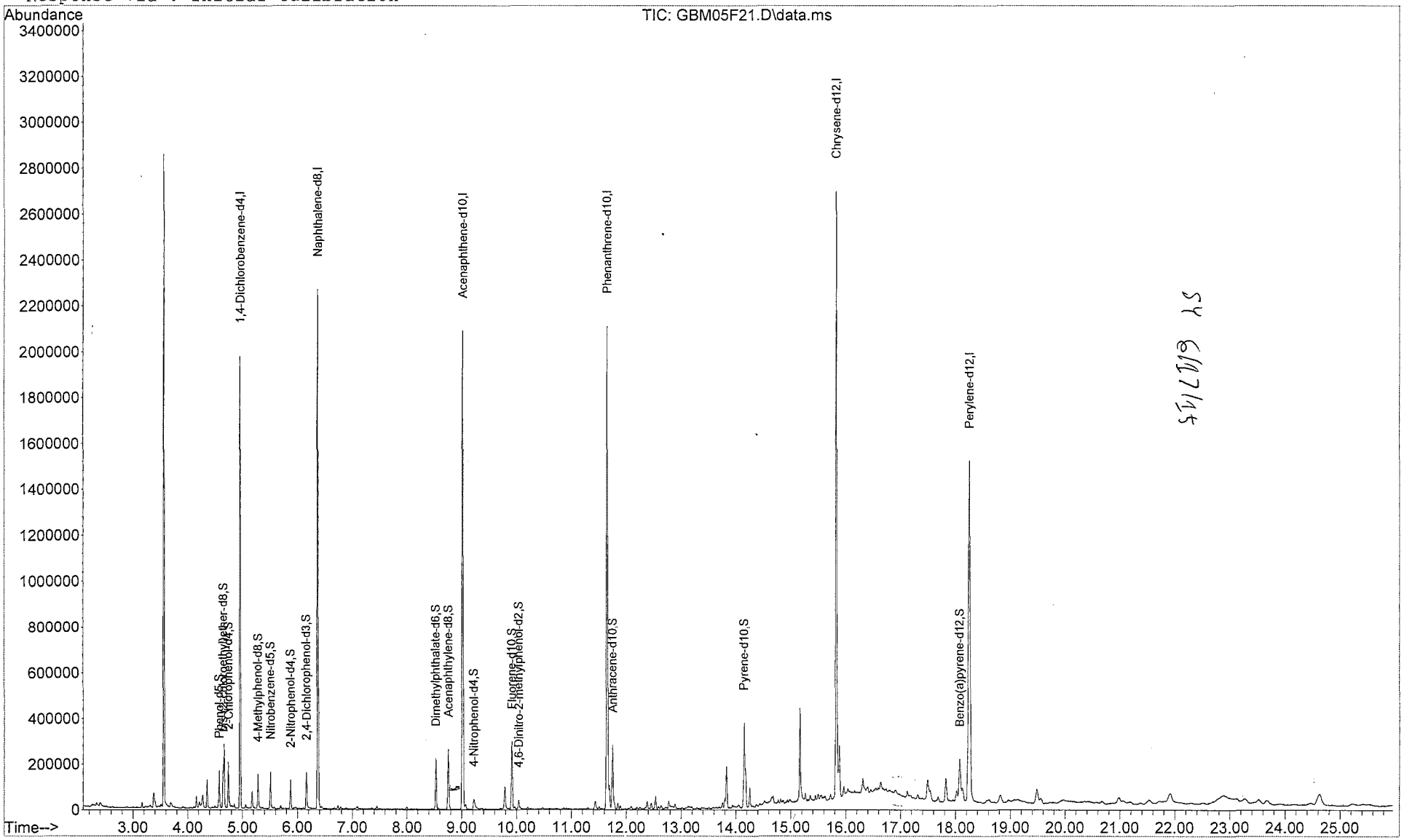
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM05F21.D Vial: 5
Acq On : 06/15/2015 18:36 Operator: DJC
Sample : 1515542021 F9M40 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 17 08:45:41 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM05F21.D Vial: 5
Acq On : 06/15/2015 18:36 Operator: DJC
Sample : 1515542021 F9M40 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 17 08:45:41 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	361298	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1380563	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	771415	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1247759	20.00 ug/ml
73) Chrysene-d12	15.83	240	1196604	20.00 ug/ml
81) Perylene-d12	18.26	264	1168257	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	67792	2.691ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	37181	2.410ug/mL
7) 2-Chlorophenol-d4	4.74	132	68281	2.760ug/ml
13) 4-Methylphenol-d8	5.28	113	40663	2.073ug/mL
17) Nitrobenzene-d5	5.51	128	31296	2.702ug/ml
21) 2-Nitrophenol-d4	5.87	143	34253	2.654ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	49223	2.603ug/mL
28) 4-Chloroaniline-d4	6.44	131	4303	0.210ug/mL
42) Dimethylphthalate-d6	8.53	166	144552	3.081ug/mL
45) Acenaphthylene-d8	8.76	160	178841	2.856ug/mL
50) 4-Nitrophenol-d4	9.23	143	24608	2.463ug/mL
57) Fluorene-d10	9.92	176	122478	3.006ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	10927	1.333ug/mL
69) Anthracene-d10	11.75	188	182056	2.884ug/mL
75) Pyrene-d10	14.15	212	159158	2.926ug/mL
86) Benzo(a)pyrene-d12	18.07	264	134539	2.539ug/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)

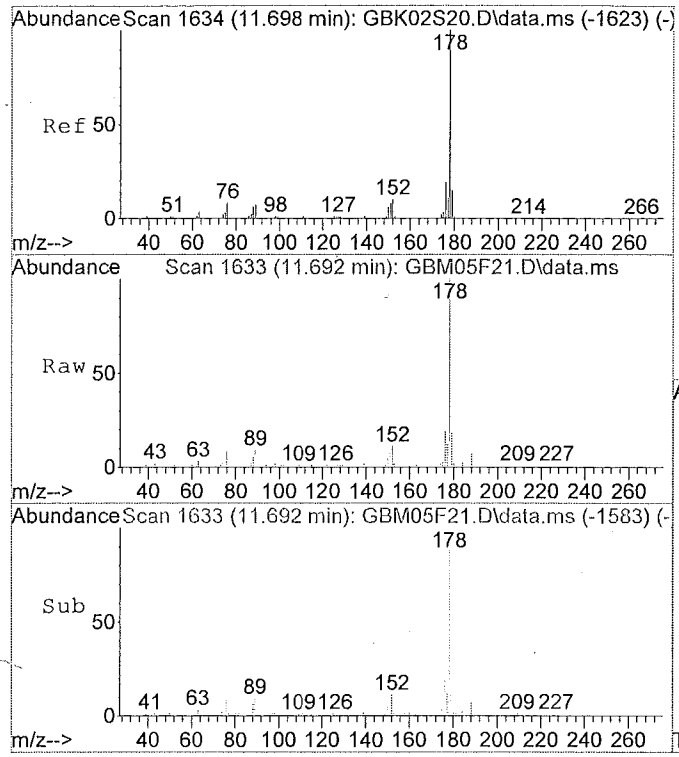
Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM05F21.D Vial: 5
Acq On : 06/15/2015 18:36 Operator: DJC
Sample : 1515542021 F9M40 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 17 08:45:41 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 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	11.69	178	57352	0.840ug/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	13.83	202	89681	1.275ug/ml	95
74) Pyrene	14.18	202	80527	1.087ug/ml	97
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	15.82	228	56252	0.827ug/ml	98
79) Chrysene	15.86	228	48304	0.782ug/ml	96
80) Bis-(2-ethylhexyl)phthalat	15.89	149	91855	1.591ug/ml	95
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	17.49	252	75972	1.119ug/ml	98
84) Benzo(k)fluoranthene	17.54	252	28329	0.430ug/ml m	98
85) Benzo(a)pyrene	18.13	252	45530	0.695ug/ml	97
87) Indeno(1,2,3-c,d)pyrene	20.98	276	37780	0.588ug/ml	96
88) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89) Benzo(g,h,i)perylene	0.00	276		Not Detected	

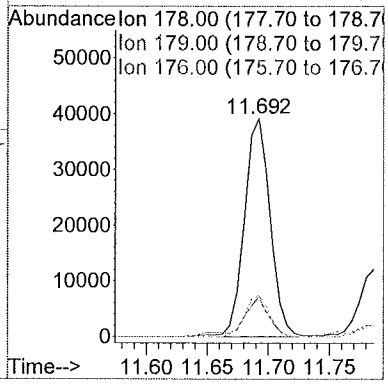
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

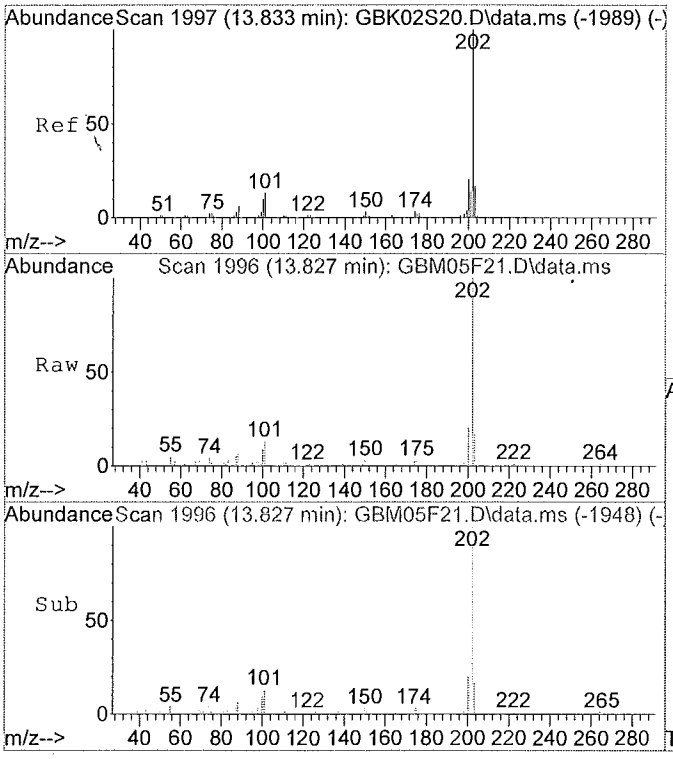


#67
Phenanthrene
Concen: 0.84 ug/ml
RT: 11.69 min Scan# 1633
Delta R.T. -0.01 min
Lab File: GBM05F21.D
Acq: 06/15/2015 18:36

Tgt Ion:178 Resp: 57352

Ion	Ratio	Lower	Upper
178	100		
179	18.2	10.6	19.8
176	18.1	13.2	24.4
0	0.0	0.0	0.0

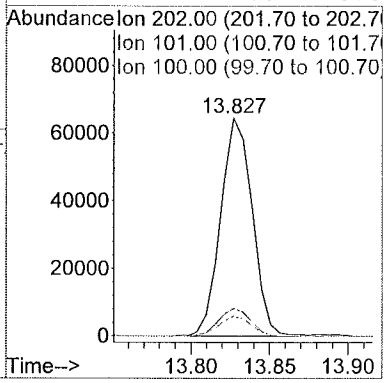


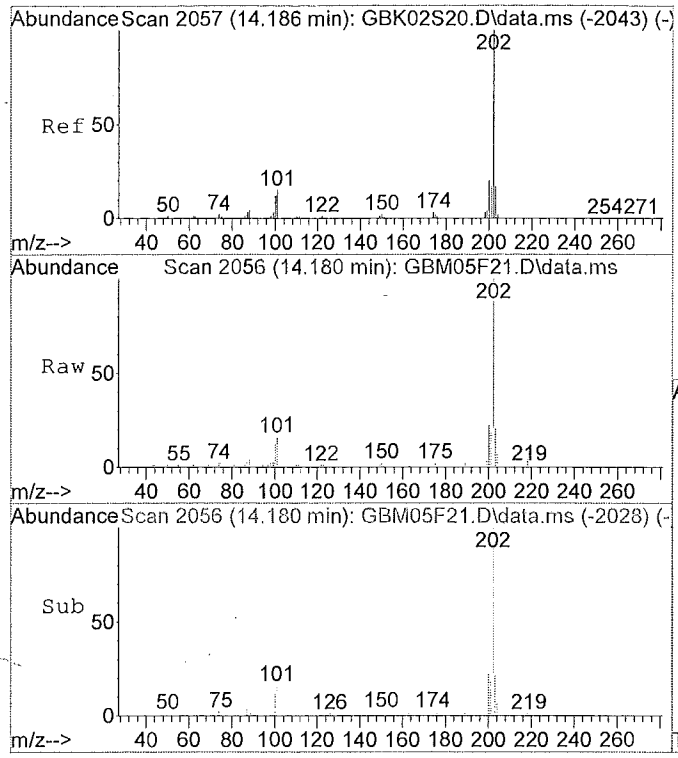


#72
Fluoranthene
Concen: 1.27 ug/ml
RT: 13.83 min Scan# 1996
Delta R.T. -0.01 min
Lab File: GBM05F21.D
Acq: 06/15/2015 18:36

Tgt Ion:202 Resp: 89681

Ion	Ratio	Lower	Upper
202	100		
101	12.8	10.5	19.5
100	9.1	7.4	13.8
0	0.0	0.0	0.0

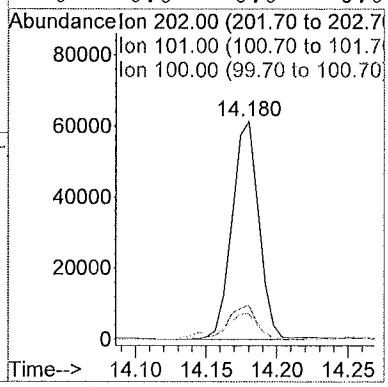


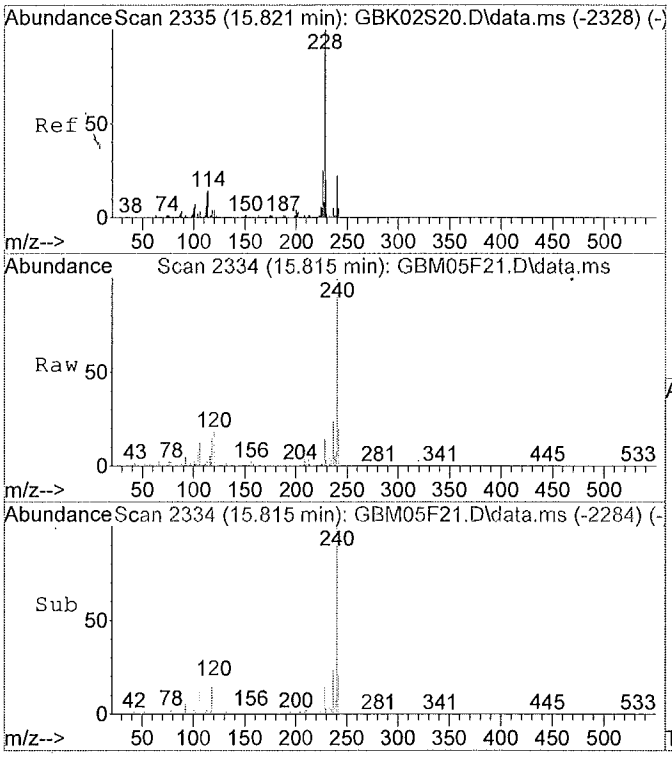


#74
Pyrene
Concen: 1.09 ug/ml
RT: 14.18 min Scan# 2056
Delta R.T. -0.01 min
Lab File: GBM05F21.D
Acq: 06/15/2015 18:36

Tgt Ion:202 Resp: 80527

Ion	Ratio	Lower	Upper
202	100		
101	16.4	12.2	22.7
100	15.7	10.1	18.7
0	0.0	0.0	0.0

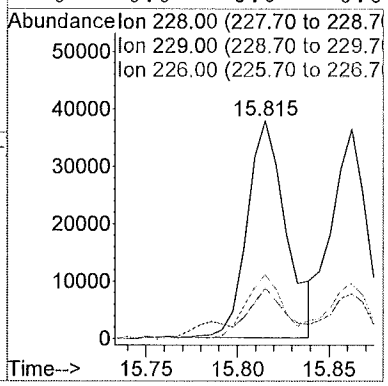


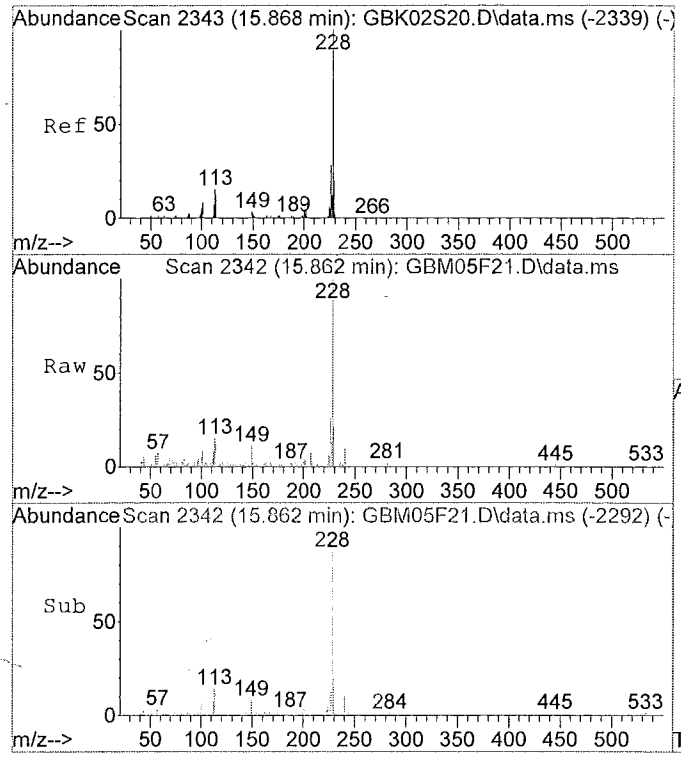


#78
Benzo(a)anthracene
Concen: 0.83 ug/ml
RT: 15.82 min Scan# 2334
Delta R.T. -0.01 min
Lab File: GBM05F21.D
Acq: 06/15/2015 18:36

Tgt Ion:228 Resp: 56252

Ion	Ratio	Lower	Upper
228	100		
229	19.7	13.7	25.5
226	27.9	18.2	33.8
0	0.0	0.0	0.0

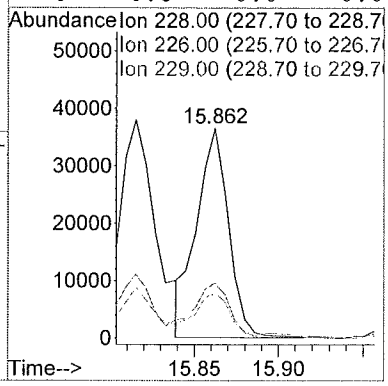


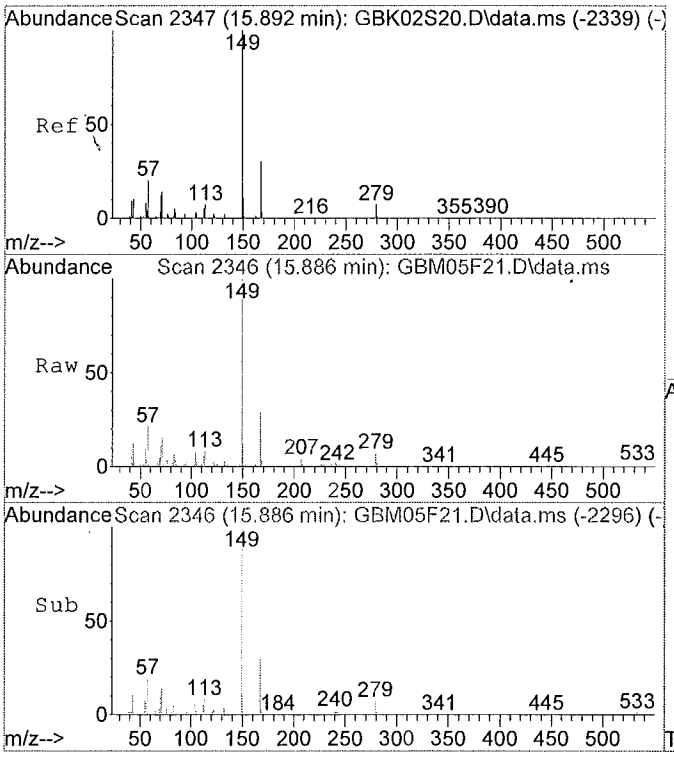


#79
Chrysene
Concen: 0.78 ug/ml
RT: 15.86 min Scan# 2342
Delta R.T. -0.01 min
Lab File: GBM05F21.D
Acq: 06/15/2015 18:36

Tgt Ion:228 Resp: 48304

Ion	Ratio	Lower	Upper
228	100		
226	31.8	20.1	37.3
229	20.5	13.7	25.5
0	0.0	0.0	0.0

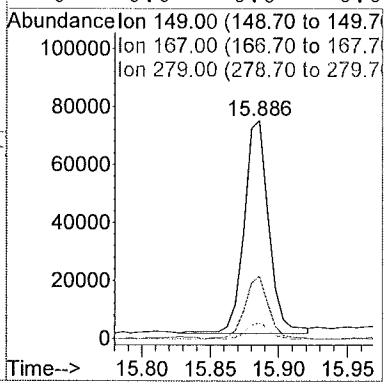


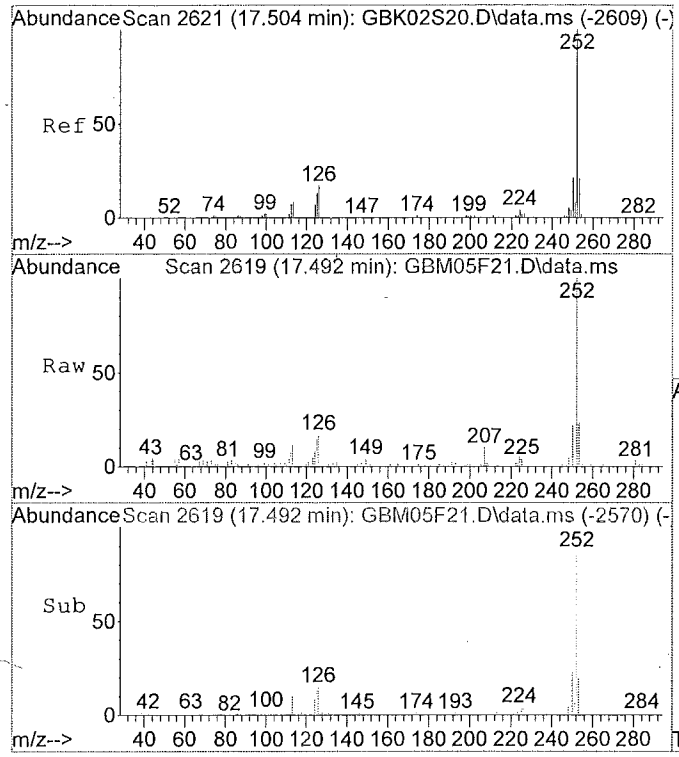


#80
Bis-(2-ethylhexyl)phthalate
Concen: 1.59 ug/ml
RT: 15.89 min Scan# 2346
Delta R.T. -0.01 min
Lab File: GBM05F21.D
Acq: 06/15/2015 18:36

Tgt Ion:149 Resp: 91855

Ion	Ratio	Lower	Upper
149	100		
167	27.9	22.0	40.8
279	6.8	5.0	9.2
0	0.0	0.0	0.0

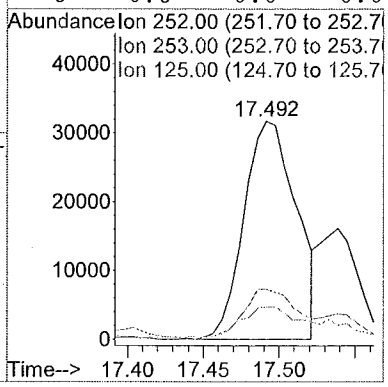


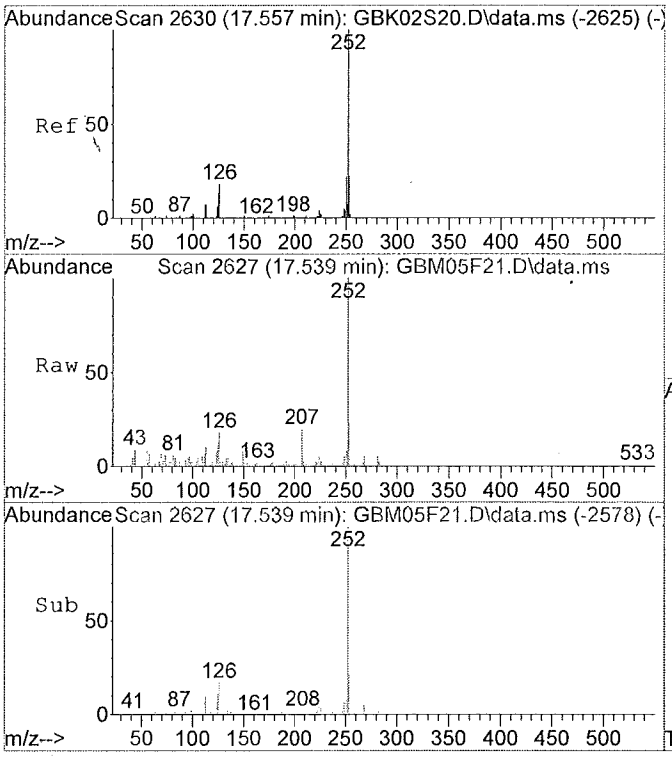


#83
Benzo(b)fluoranthene
Concen: 1.12 ug/ml
RT: 17.49 min Scan# 2619
Delta R.T. -0.01 min
Lab File: GBM05F21.D
Acq: 06/15/2015 18:36

Tgt Ion:252 Resp: 75972

Ion	Ratio	Lower	Upper
252	100		
253	23.3	15.1	28.1
125	15.0	10.6	19.8
0	0.0	0.0	0.0

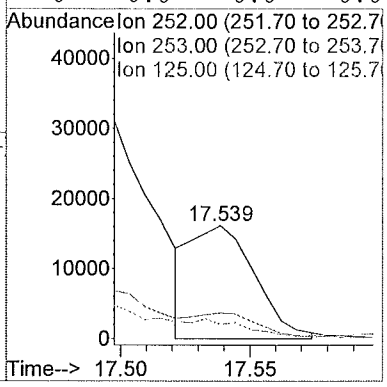


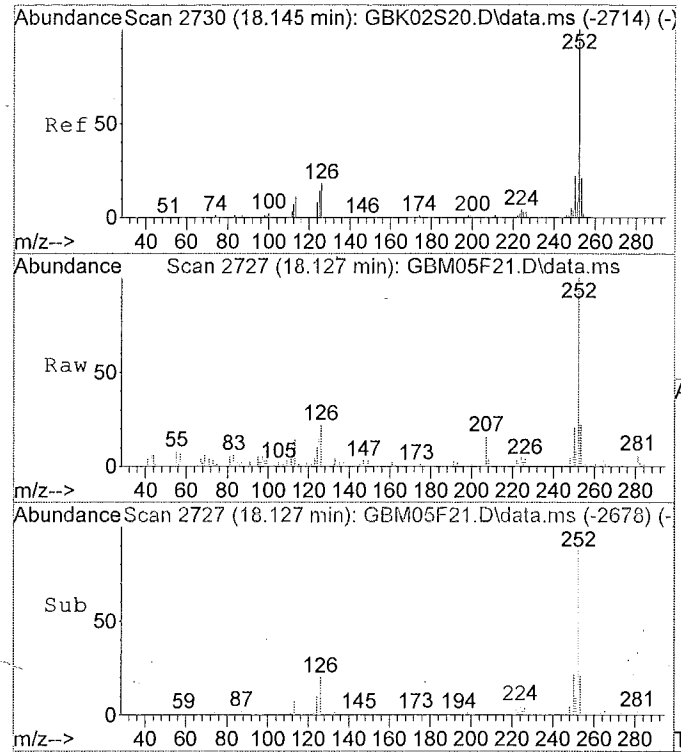


#84
Benzo(k)fluoranthene
Concen: 0.43 ug/ml m
RT: 17.54 min Scan# 2627
Delta R.T. -0.01 min
Lab File: GBM05F21.D
Acq: 06/15/2015 18:36

Tgt Ion:252 Resp: 28329

Ion	Ratio	Lower	Upper
252	100		
253	62.6	15.1	28.1#
125	40.4	10.7	19.9#
0	0.0	0.0	0.0

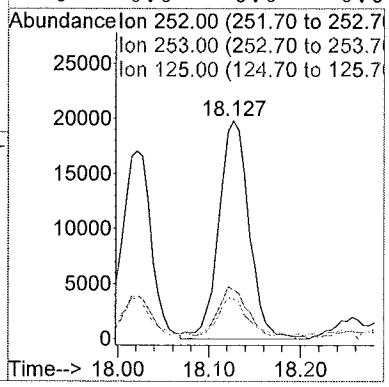


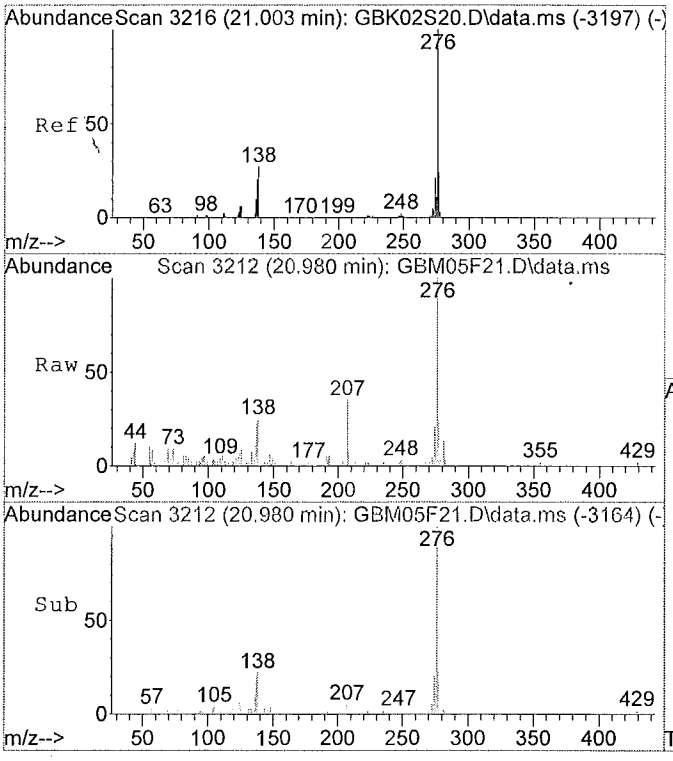


#85
Benzo(a)pyrene
Concen: 0.70 ug/ml
RT: 18.13 min Scan# 2727
Delta R.T. -0.01 min
Lab File: GBM05F21.D
Acq: 06/15/2015 18:36

Tgt Ion:252 Resp: 45530

Ion	Ratio	Lower	Upper
252	100		
253	24.3	15.2	28.2
125	17.2	11.8	21.8
0	0.0	0.0	0.0

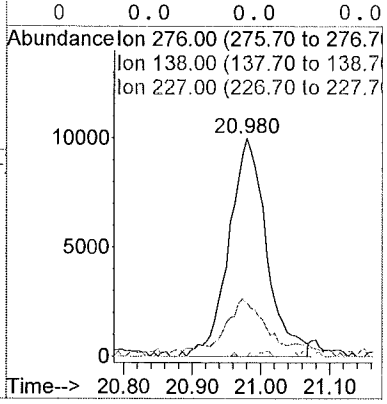


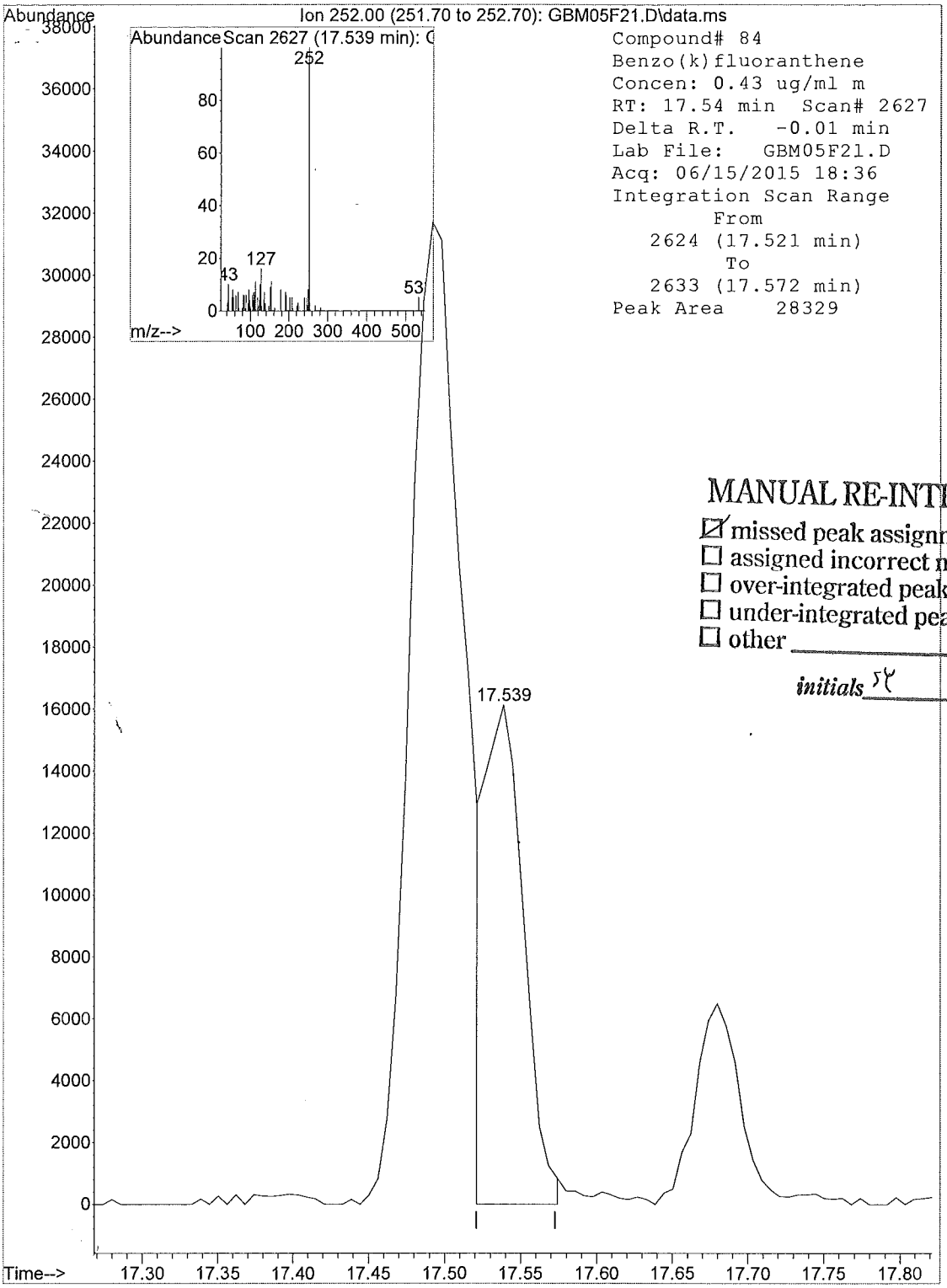


#87
Indeno(1,2,3-c,d)pyrene
Concen: 0.59 ug/ml
RT: 20.98 min Scan# 3212
Delta R.T. -0.02 min
Lab File: GBM05F21.D
Acq: 06/15/2015 18:36

Tgt Ion:276 Resp: 37780

Ion	Ratio	Lower	Upper
276	100		
138	29.7	22.3	41.5
227	0.2	0.1	0.1#
0	0.0	0.0	0.0





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* 6/17/15

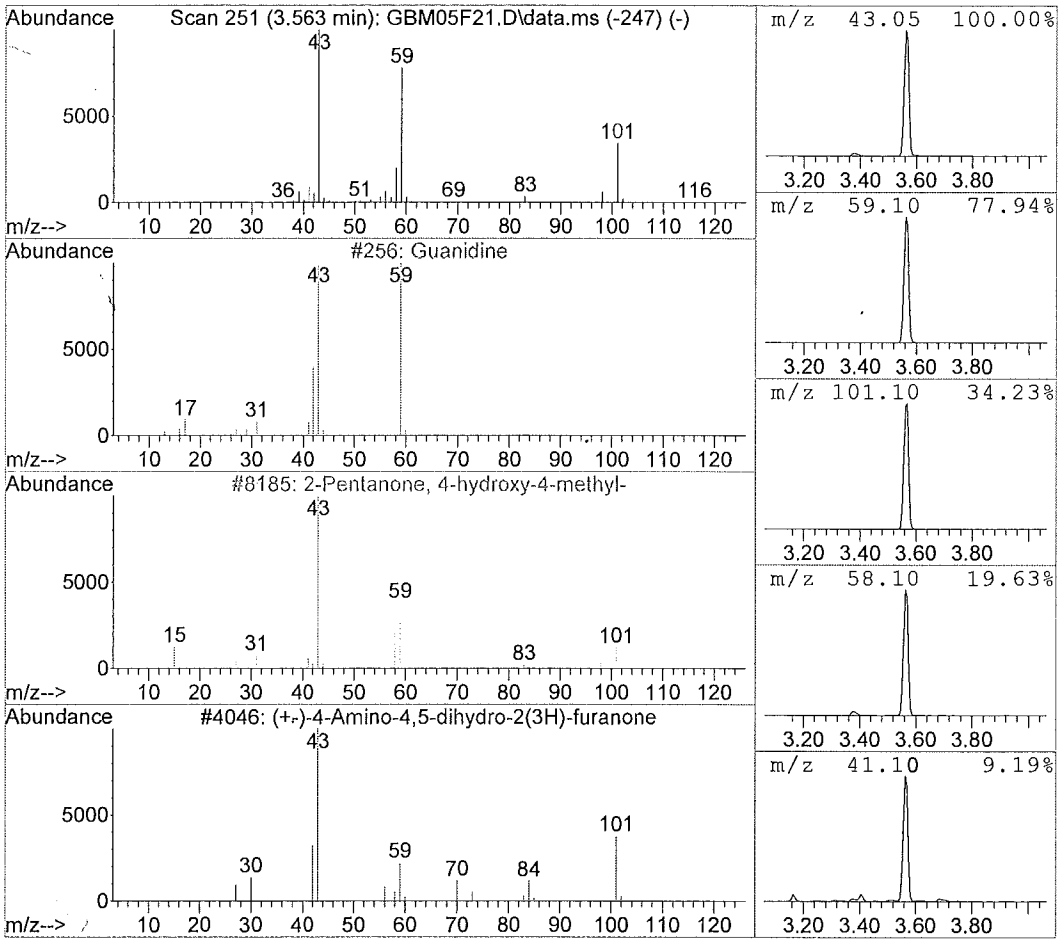
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM05F21.D Vial: 5
Acq On : 06/15/2015 18:36 Operator: DJC
Sample : 1515542021 F9M40 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.56	31.66 ug/ml	3176592	1,4-Dichlorobenzene-d4	2006727

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Guanidine	256	000113-00-8	47.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	32.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Butane, 1-ethoxy-	4425	000628-81-9	9.00
5	Acetone	217	000067-64-1	9.00



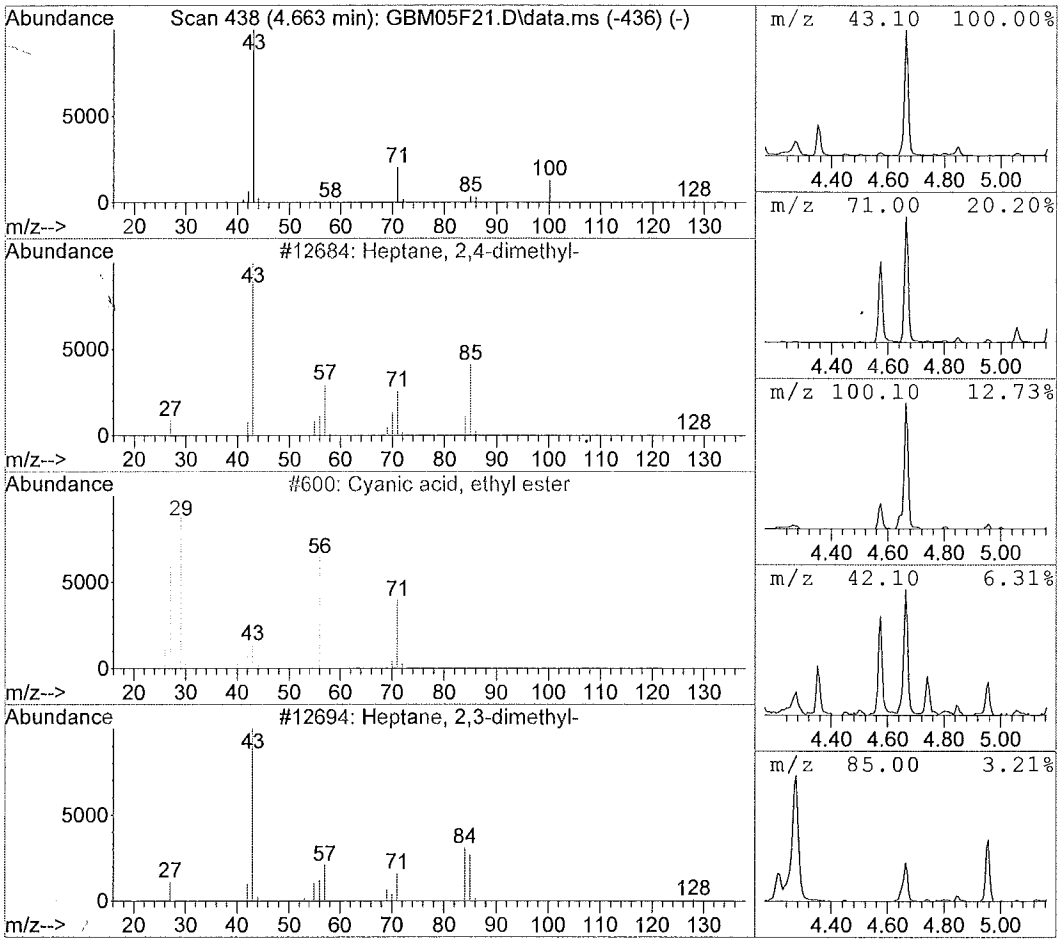
Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM05F21.D Vial: 5
Acq On : 06/15/2015 18:36 Operator: DJC
Sample : 1515542021 F9M40 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.66	2.54 ug/ml	255164	1,4-Dichlorobenzene-d4	2006727

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,4-dimethyl-	12684	002213-23-2	45.00
2	Cyanic acid, ethyl ester	600	000627-48-5	9.00
3	Heptane, 2,3-dimethyl-	12694	003074-71-3	9.00
4	2-Pentanone, 3-ethyl-3-methyl-	12624	019780-65-5	9.00
5	Pentane, 2-methyl-	1823	000107-83-5	9.00

BA

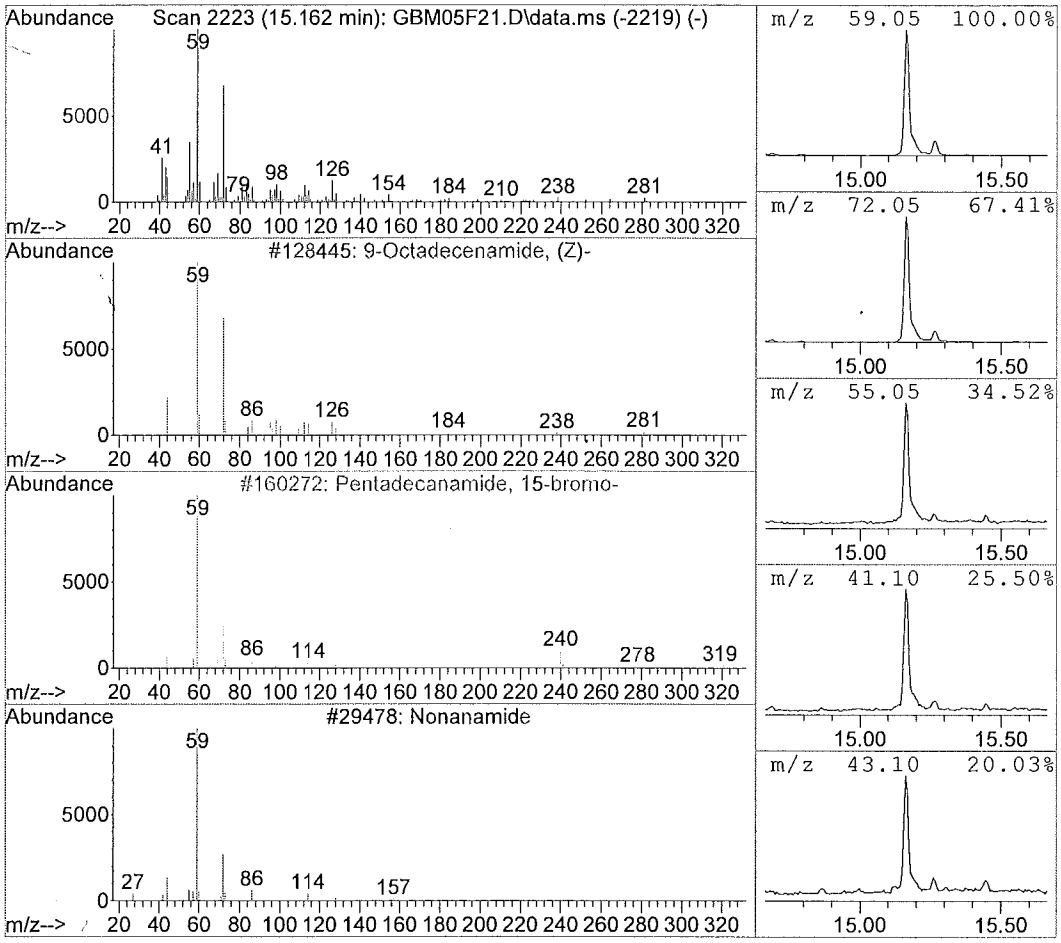


Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM05F21.D Vial: 5
Acq On : 06/15/2015 18:36 Operator: DJC
Sample : 1515542021 F9M40 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.16	2.97 ug/ml	526364	Chrysene-d12	3545699

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00
3	Nonanamide	29478	001120-07-6	47.00
4	Pentanamide, 4-methyl-	7815	001119-29-5	47.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	45.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M41

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542022

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBM06F22

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	990	U
108-95-2	Phenol	990	U
111-44-4	Bis(2-chloroethyl)ether	990	U
95-57-8	2-Chlorophenol	990	U
95-48-7	2-Methylphenol	990	U
108-60-1	2,2'-Oxybis(1-chloropropane)	990	U
98-86-2	Acetophenone	990	U
106-44-5	4-Methylphenol	990	U
621-64-7	N-Nitroso-di-n-propylamine	990	U
67-72-1	Hexachloroethane	990	U
98-95-3	Nitrobenzene	990	U
78-59-1	Isophorone	990	U
88-75-5	2-Nitrophenol	990	U
105-67-9	2,4-Dimethylphenol	990	U
111-91-1	Bis(2-chloroethoxy)methane	990	U
120-83-2	2,4-Dichlorophenol	990	U
91-20-3	Naphthalene	990	U
106-47-8	4-Chloroaniline	990	U
87-68-3	Hexachlorobutadiene	990	U
105-60-2	Caprolactam	990	U
59-50-7	4-Chloro-3-methylphenol	990	U
91-57-6	2-Methylnaphthalene	990	U
77-47-4	Hexachlorocyclopentadiene	990	U
88-06-2	2,4,6-Trichlorophenol	990	U
95-95-4	2,4,5-Trichlorophenol	990	U
92-52-4	1,1'-Biphenyl	990	U
91-58-7	2-Chloronaphthalene	990	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	990	U
606-20-2	2,6-Dinitrotoluene	990	U
208-96-8	Acenaphthylene	990	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	990	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M41

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542022

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBM06F22

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	990	U
121-14-2	2,4-Dinitrotoluene	990	U
84-66-2	Diethylphthalate	990	U
86-73-7	Fluorene	990	U
7005-72-3	4-Chlorophenyl-phenylether	990	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine[1]	990	U
95-94-3	1,2,4,5-Tetrachlorobenzene	990	U
101-55-3	4-Bromophenyl-phenylether	990	U
118-74-1	Hexachlorobenzene	990	U
1912-24-9	Atrazine	990	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	990	U
120-12-7	Anthracene	990	U
86-74-8	Carbazole	990	U
84-74-2	Di-n-butylphthalate	990	U
206-44-0	Fluoranthene	990	U
129-00-0	Pyrene	990	U
85-68-7	Butylbenzylphthalate	990	U
91-94-1	3,3'-Dichlorobenzidine	990	U
56-55-3	Benzo(a)anthracene	990	U
218-01-9	Chrysene	990	U
117-81-7	Bis(2-ethylhexyl)phthalate	230	J
117-84-0	Di-n-octylphthalate	990	U
205-99-2	Benzo(b)fluoranthene	990	U
207-08-9	Benzo(k)fluoranthene	990	U
50-32-8	Benzo(a)pyrene	990	U
193-39-5	Indeno(1,2,3-cd)pyrene	990	U
53-70-3	Dibenzo(a,h)anthracene	990	U
191-24-2	Benzo(g,h,i)perylene	990	U
58-90-2	2,3,4,6-Tetrachlorophenol	990	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9M41

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542022
Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBM06F22
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015
GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 5.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Pentanone, 4-hydroxy-	3.38	530	JB
02		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.58	15000	JB
03		Unknown 3-Hexene-2,5-dione	4.35	400	JB
04	301-02-0	9-Octadecenamide, (Z)-	15.16	1600	JNB
05		Unknown Phthalic anhydride	18.82	680	J
06		Unknown Picolinyl 8-(5-hexyl-2-furyl)-octanoate	23.67	1200	J
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[2]	Total Alkanes	N/A	730	J

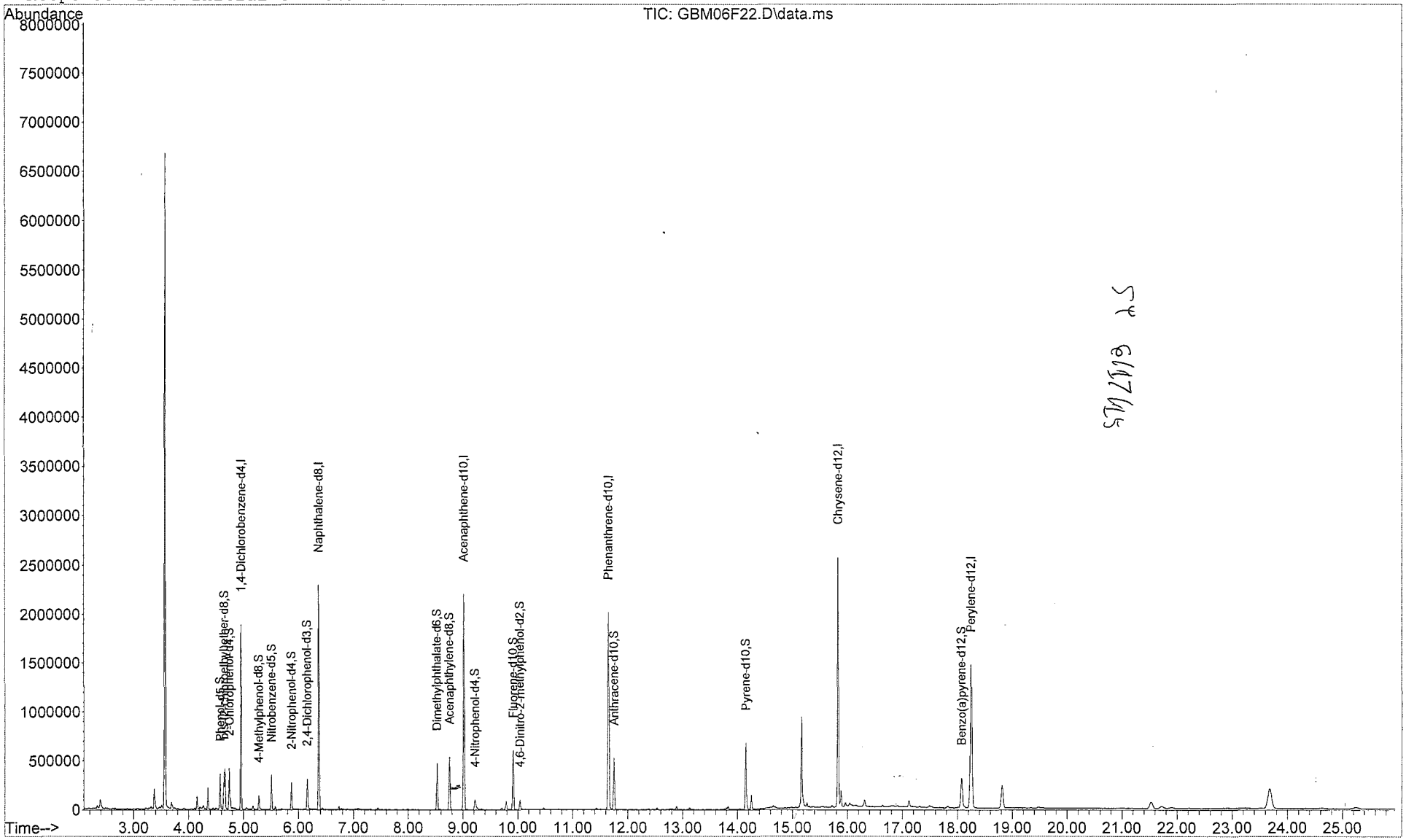
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM06F22.D Vial: 6
Acq On : 06/15/2015 19:09 Operator: DJC
Sample : 1515542022 F9M41 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 15 19:35:21 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM06F22.D Vial: 6
Acq On : 06/15/2015 19:09 Operator: DJC
Sample : 1515542022 F9M41 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 15 19:35:21 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	356860	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1363082	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	771754	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1230733	20.00 ug/ml
73) Chrysene-d12	15.83	240	1128537	20.00 ug/ml
81) Perylene-d12	18.25	264	1102636	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	140686	5.653ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	82135	5.390ug/mL
7) 2-Chlorophenol-d4	4.74	132	135400	5.542ug/ml
13) 4-Methylphenol-d8	5.28	113	40617	2.096ug/mL
17) Nitrobenzene-d5	5.51	128	69583	6.084ug/ml
21) 2-Nitrophenol-d4	5.87	143	75324	5.910ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	95886	5.136ug/mL
28) 4-Chloroaniline-d4	6.44	131	6134	0.303ug/mL
42) Dimethylphthalate-d6	8.53	166	297169	6.332ug/mL
45) Acenaphthylene-d8	8.76	160	368720	5.887ug/mL
50) 4-Nitrophenol-d4	9.22	143	51998	5.203ug/mL
57) Fluorene-d10	9.92	176	247780	6.078ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	26397	3.265ug/mL
69) Anthracene-d10	11.75	188	333249	5.353ug/mL
75) Pyrene-d10	14.15	212	300409	5.855ug/mL
86) Benzo(a)pyrene-d12	18.07	264	224185	4.482ug/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)

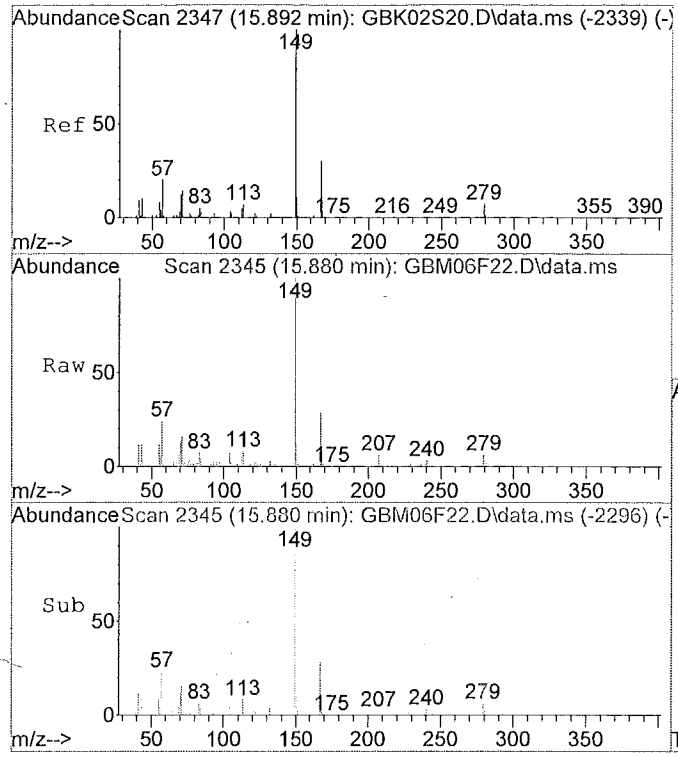
Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM06F22.D Vial: 6
Acq On : 06/15/2015 19:09 Operator: DJC
Sample : 1515542022 F9M41 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 15 19:35:21 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 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	15.88	149	63809	1.172ug/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	

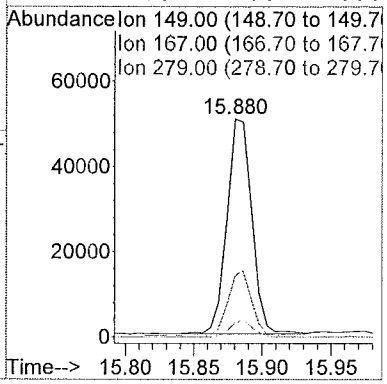
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#80
Bis-(2-ethylhexyl)phthalate
Concen: 1.17 ug/ml
RT: 15.88 min Scan# 2345
Delta R.T. -0.01 min
Lab File: GBM06F22.D
Acq: 06/15/2015 19:09

Tgt Ion:149 Resp: 63809

Ion	Ratio	Lower	Upper
149	100		
167	29.6	22.0	40.8
279	7.2	5.0	9.2
0	0.0	0.0	0.0



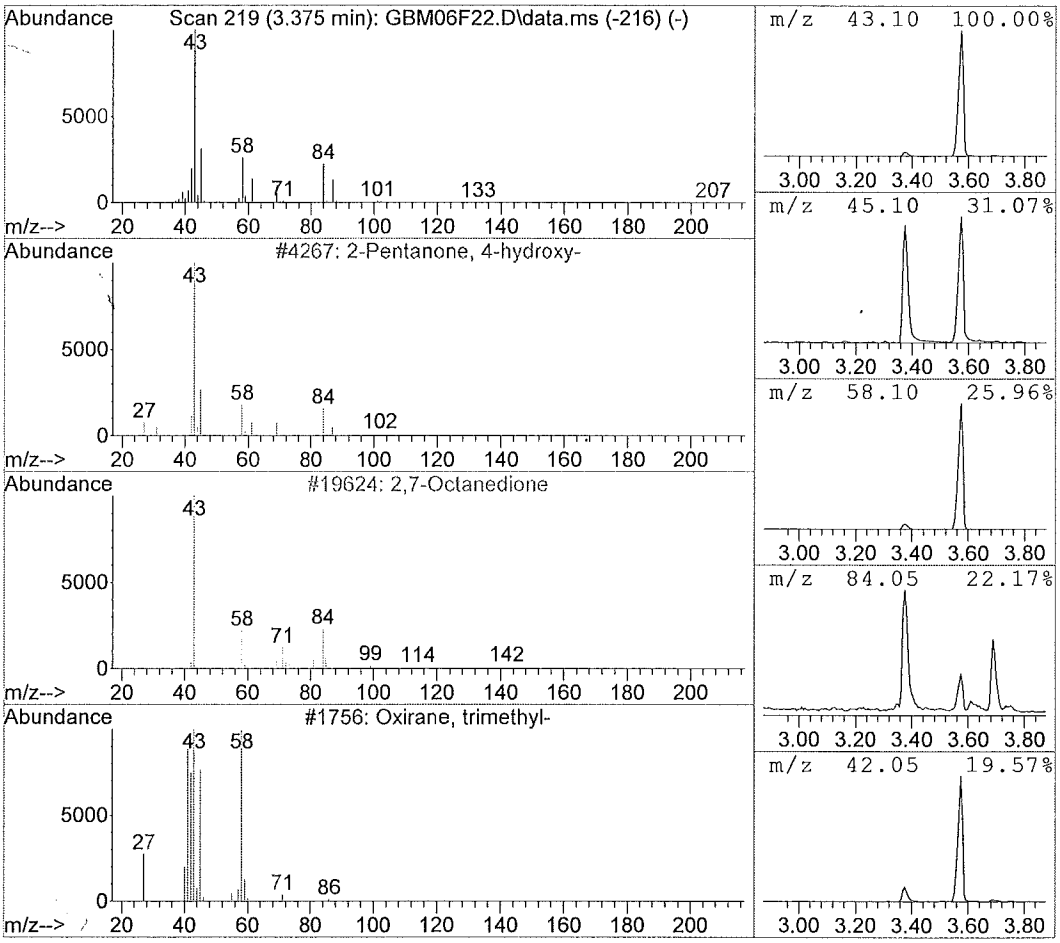
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM06F22.D Vial: 6
Acq On : 06/15/2015 19:09 Operator: DJC
Sample : 1515542022 F9M41 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.38	2.70 ug/ml	265594	1,4-Dichlorobenzene-d4	1966510

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	56.00
2	2,7-Octanedione	19624	001626-09-1	25.00
3	Oxirane, trimethyl-	1756	005076-19-7	23.00
4	Acetone	213	000067-64-1	9.00
5	Isopropyl acetate	4255	000108-21-4	9.00



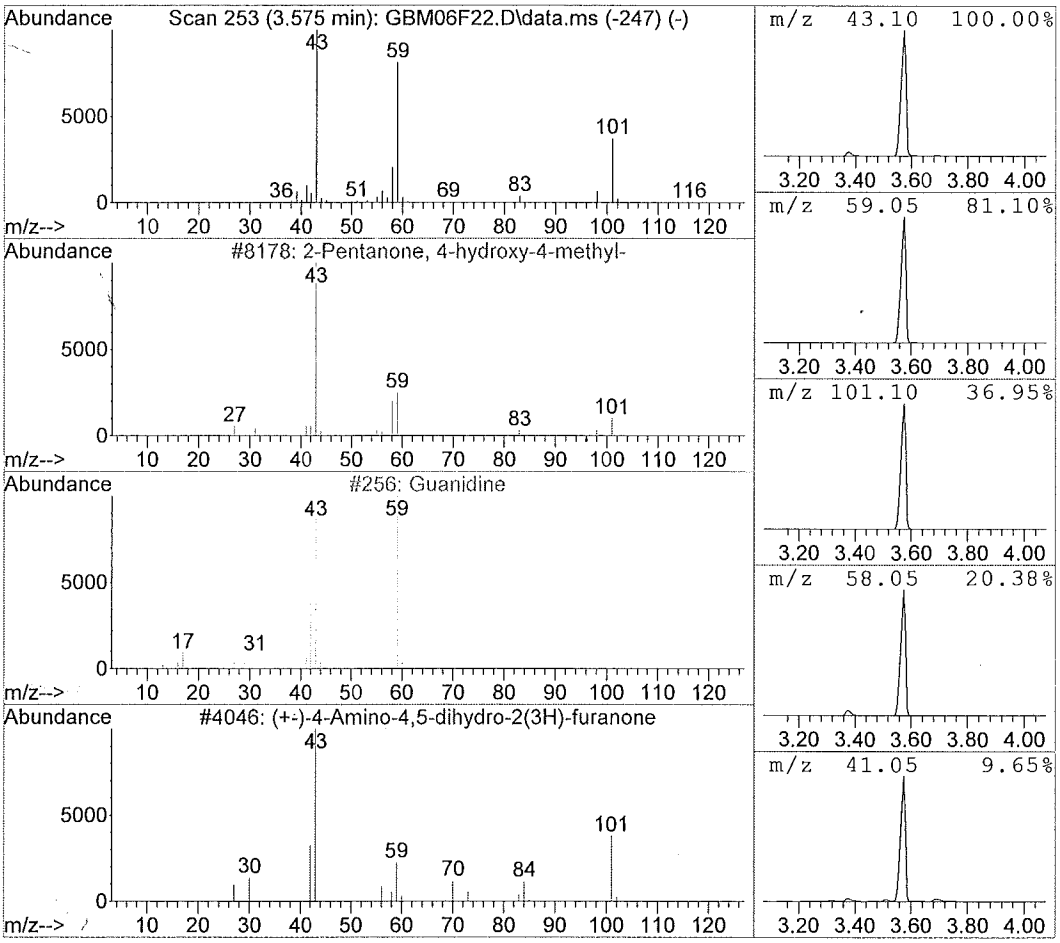
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM06F22.D Vial: 6
Acq On : 06/15/2015 19:09 Operator: DJC
Sample : 1515542022 F9M41 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.58	78.98 ug/ml	7766208	1,4-Dichlorobenzene-d4	1966510

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	50.00
2	Guanidine	256	000113-00-8	47.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	5-Hexen-2-one	3159	000109-49-9	9.00



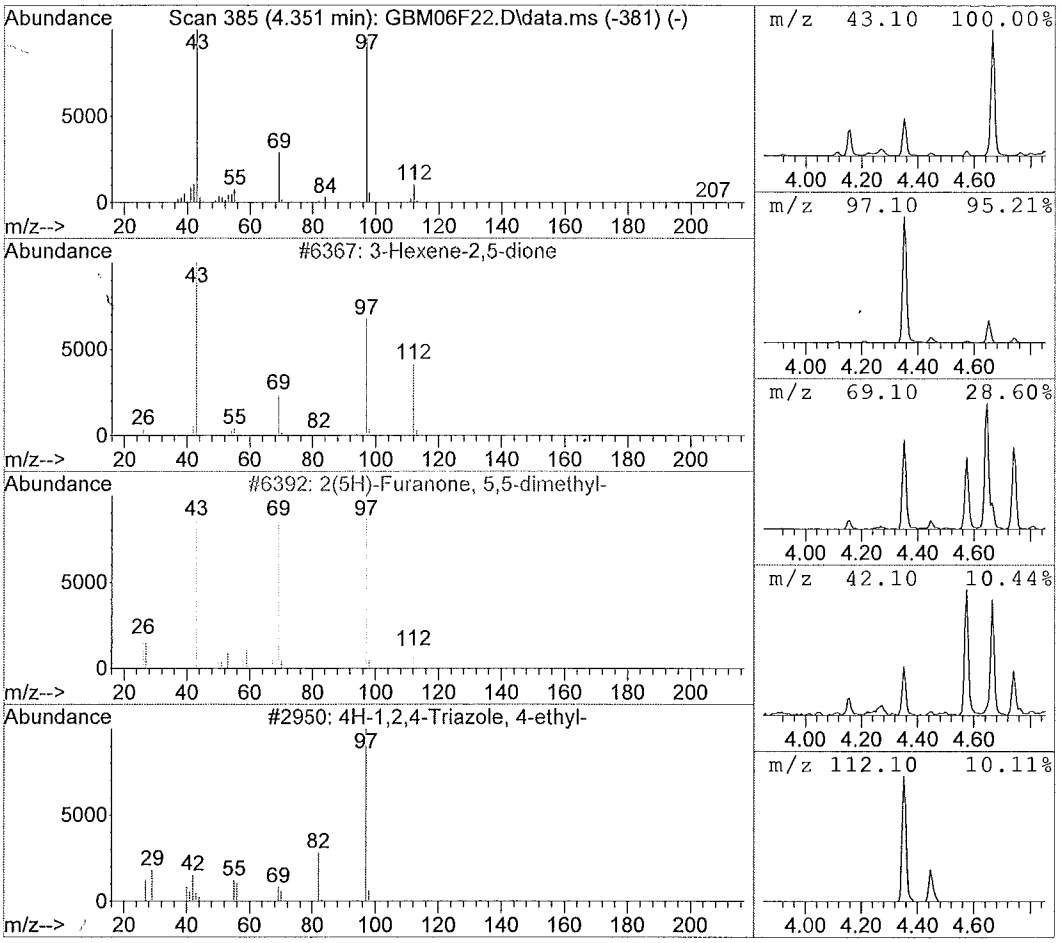
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM06F22.D Vial: 6
Acq On : 06/15/2015 19:09 Operator: DJC
Sample : 1515542022 F9M41 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.35	2.06 ug/ml	202189	1,4-Dichlorobenzene-d4	1966510

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene-2,5-dione	6367	004436-75-3	72.00
2	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	64.00
3	4H-1,2,4-Triazole, 4-ethyl-	2950	043183-55-7	42.00
4	4-Methyl-2-pyrazolin-5-one	3041	013315-23-6	36.00
5	Sulfurous acid, butyl cyclohexylmet	88702	1000309-21-4	33.00



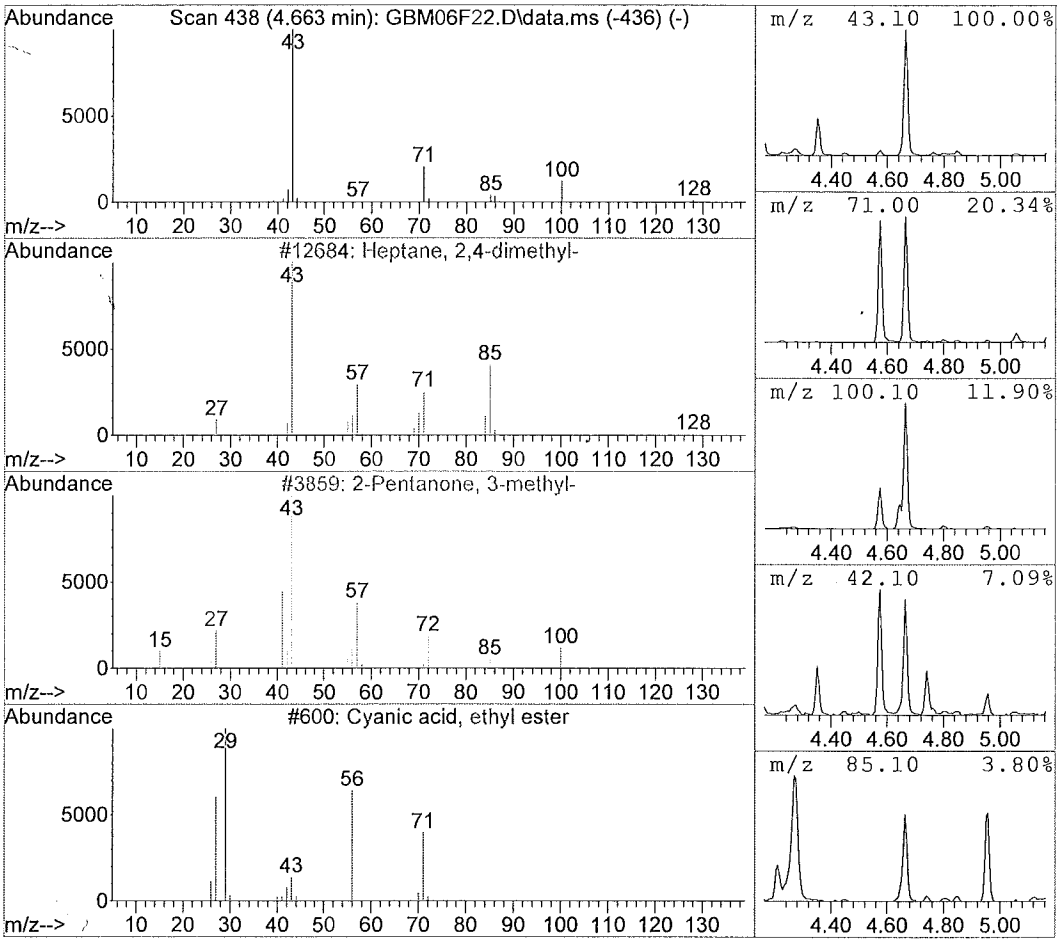
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM06F22.D Vial: 6
Acq On : 06/15/2015 19:09 Operator: DJC
Sample : 1515542022 F9M41 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.66	3.74 ug/ml	367359	1,4-Dichlorobenzene-d4	1966510

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,4-dimethyl- BA	12684	002213-23-2	42.00
2	2-Pentanone, 3-methyl-	3859	000565-61-7	9.00
3	Cyanic acid, ethyl ester	600	000627-48-5	9.00
4	Heptane, 2,3-dimethyl-	12694	003074-71-3	9.00
5	Heptane	3973	000142-82-5	9.00

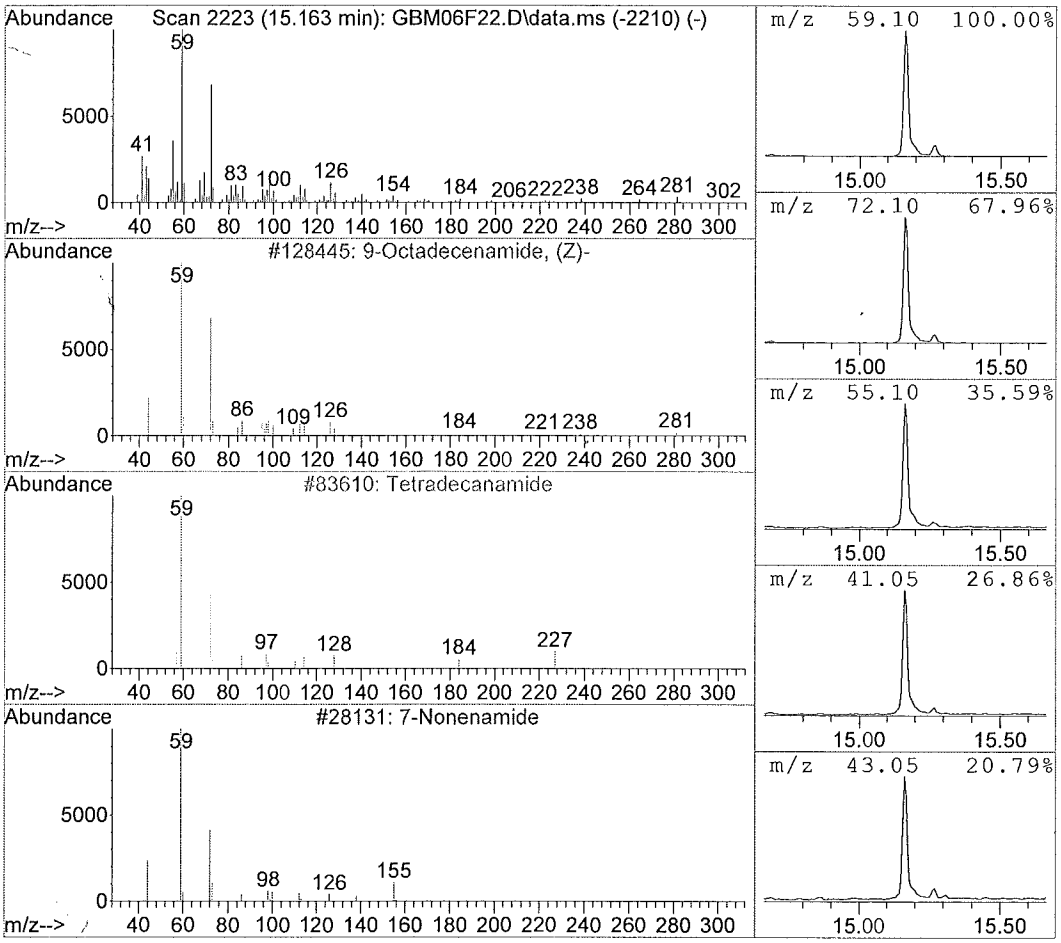


Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM06F22.D Vial: 6
Acq On : 06/15/2015 19:09 Operator: DJC
Sample : 1515542022 F9M41 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.16	8.10 ug/ml	1297889	Chrysene-d12	3206181

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	Tetradecanamide	83610	000638-58-4	90.00
3	7-Nonenamide	28131	090949-53-4	83.00
4	Decanamide-	38977	002319-29-1	50.00
5	Octanamide	20317	000629-01-6	50.00

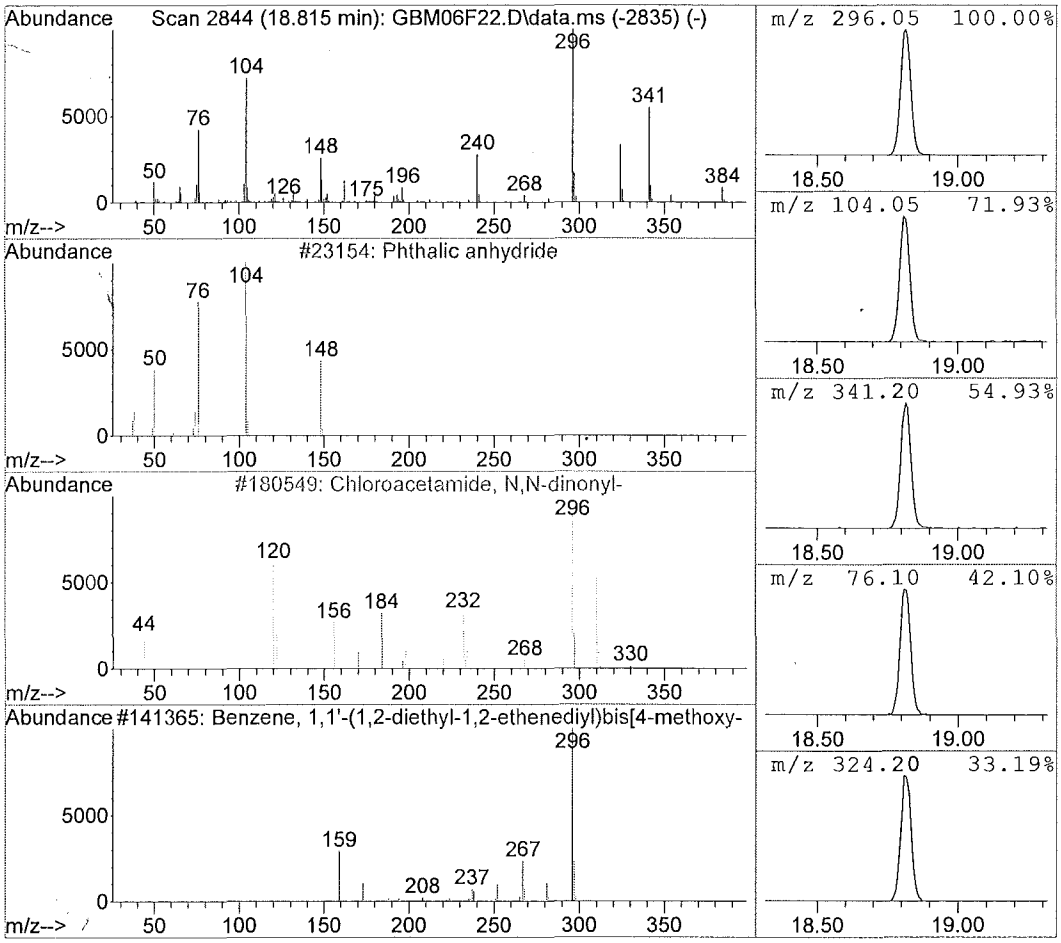


Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM06F22.D Vial: 6
Acq On : 06/15/2015 19:09 Operator: DJC
Sample : 1515542022 F9M41 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.82	3.51 ug/ml	572667	Perylene-d12	3266221

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23154	000085-44-9	22.00
2	Chloroacetamide, N,N-dinonyl-	180549	1000308-48-1	18.00
3	Benzene, 1,1'-(1,2-diethyl-1,2-ethe	141365	007773-34-4	14.00
4	1,2-Benzenedicarboxylic acid	35572	000088-99-3	12.00
5	trans-4'-Dimethylamino-3-nitrochalc	140969	1000234-56-7	12.00

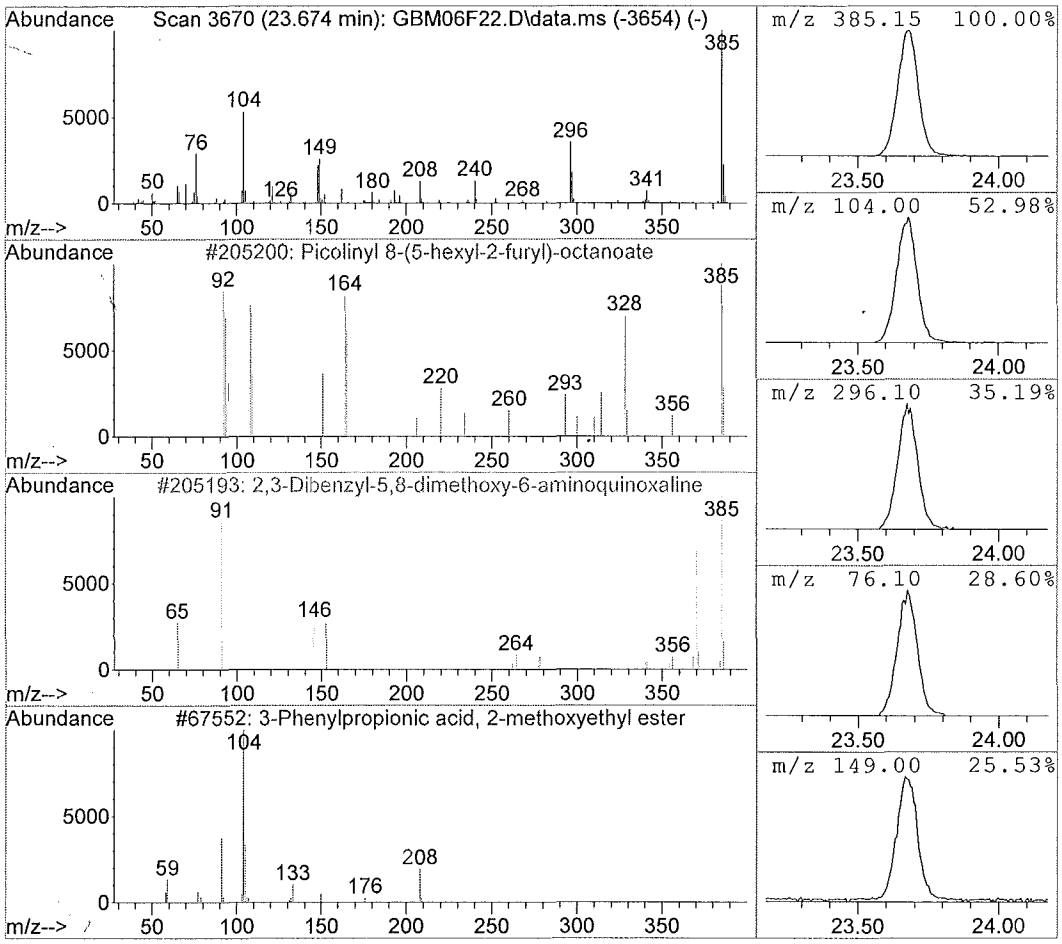


Data File : C:\msdchem\1\data\F9...6)\15JUN15\GBM06F22.D Vial: 6
Acq On : 06/15/2015 19:09 Operator: DJC
Sample : 1515542022 F9M41 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.67	5.97 ug/ml	975734	Perylene-d12	3266221

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Picolinyl 8-(5-hexyl-2-furyl)-octan	205200	1000335-93-0	30.00
2	2,3-Dibenzyl-5,8-dimethoxy-6-aminoq	205193	056393-28-3	12.00
3	3-Phenylpropionic acid, 2-methoxyet	67552	1000331-05-3	11.00
4	(+)-Diethyl L-tartrate	66417	000087-91-2	10.00
5	Phthalic acid, monoethyl ester	55736	002306-33-4	10.00



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.: F9M21

Instrument ID: 5975-G Calibration Date(s): 05/27/2015 05/27/2015

Calibration Time(s): 15:49 19:02

LAB FILE ID: RRF 5.0 = GAX02S05 RRF 10 = GAX03S10
RRF 20 = GAX01S20 RRF 40 = GAX06S40 RRF 80 = GAX07S80

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
Benzaldehyde	0.927	0.886	0.774	0.886	0.712	0.837	10.8
Phenol	1.355	1.454	1.461	1.395	1.389	1.411	3.2
Bis(2-chloroethyl)ether	1.163	1.129	1.199	1.172	1.220	1.177	3.0
2-Chlorophenol	1.244	1.341	1.351	1.293	1.276	1.301	3.4
2-Methylphenol	1.165	1.104	1.084	1.075	1.032	1.092	4.5
2,2'-Oxybis(1-chloropropane)	1.425	1.351	1.350	1.298	1.222	1.329	5.6
Acetophenone	1.659	1.588	1.569	1.534	1.481	1.566	4.2
4-Methylphenol	1.211	1.142	1.134	1.140	1.101	1.146	3.5
N-Nitroso-di-n-propylamine	0.727	0.695	0.686	0.676	0.653	0.687	3.9
Hexachloroethane	0.640	0.600	0.579	0.583	0.571	0.595	4.6
Nitrobenzene	0.333	0.313	0.300	0.304	0.294	0.309	4.9
Isophorone	0.568	0.540	0.522	0.530	0.516	0.535	3.8
2-Nitrophenol	0.191	0.203	0.203	0.196	0.195	0.197	2.8
2,4-Dimethylphenol	0.293	0.314	0.317	0.304	0.307	0.307	3.0
Bis(2-chloroethoxy)methane	0.365	0.359	0.354	0.354	0.340	0.354	2.6
2,4-Dichlorophenol	0.256	0.277	0.284	0.274	0.270	0.272	3.9
Naphthalene	1.087	1.037	0.984	0.983	0.956	1.009	5.2
4-Chloroaniline	0.405	0.397	0.352	0.279	0.235	0.334	22.2
Hexachlorobutadiene	0.185	0.176	0.169	0.172	0.163	0.173	4.8
Caprolactam	0.099	0.096	0.096	0.099	0.098	0.098	1.5
4-Chloro-3-methylphenol	0.247	0.269	0.274	0.270	0.273	0.266	4.1
2-Methylnaphthalene	0.683	0.670	0.657	0.591	0.620	0.645	5.9
Hexachlorocyclopentadiene	0.340	0.358	0.357	0.363	0.342	0.352	3.0
2,4,6-Trichlorophenol	0.330	0.354	0.368	0.354	0.350	0.351	3.9
2,4,5-Trichlorophenol	0.380	0.387	0.378	0.380	0.362	0.377	2.5
1,1'-Biphenyl	1.499	1.442	1.406	1.348	1.272	1.393	6.3
2-Chloronaphthalene	1.174	1.117	1.064	1.054	0.994	1.081	6.3
2-Nitroaniline		0.294	0.293	0.264	0.283	0.284	4.9
Dimethylphthalate	1.287	1.268	1.250	1.246	1.186	1.247	3.0
2,6-Dinitrotoluene	0.296	0.289	0.285	0.289	0.280	0.288	2.1
Acenaphthylene	1.957	1.901	1.799	1.783	1.701	1.828	5.5
3-Nitroaniline		0.314	0.218	0.157	0.135	0.206	39.0
Acenaphthene	1.211	1.169	1.102	1.093	1.053	1.126	5.6
2,4-Dinitrophenol		0.144	0.176	0.188	0.198	0.176	13.5
4-Nitrophenol		0.148	0.156	0.155	0.154	0.153	2.1
Dibenzofuran	1.575	1.563	1.519	1.353	1.381	1.478	7.0

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.: F9M21

Instrument ID: 5975-G Calibration Date(s): 05/27/2015 05/27/2015

Calibration Time(s): 15:49 19:02

LAB FILE ID: RRF 5.0 = GAX02S05 RRF 10 = GAX03S10

RRF 20 = GAX01S20 RRF 40 = GAX06S40 RRF 80 = GAX07S80

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
2,4-Dinitrotoluene	0.406	0.393	0.386	0.391	0.367	0.388	3.7
Diethylphthalate	1.316	1.297	1.307	1.305	1.224	1.290	2.9
Fluorene	1.328	1.281	1.214	1.187	1.121	1.226	6.6
4-Chlorophenyl-phenylether	0.616	0.600	0.588	0.576	0.529	0.582	5.7
4-Nitroaniline		0.294	0.252	0.226	0.180	0.238	20.1
4,6-Dinitro-2-methylphenol		0.138	0.153	0.150	0.154	0.149	4.9
N-Nitrosodiphenylamine[1]	0.554	0.545	0.533	0.507	0.476	0.523	6.1
1,2,4,5-Tetrachlorobenzene	0.528	0.517	0.516	0.451	0.462	0.495	7.1
4-Bromophenyl-phenylether	0.212	0.204	0.206	0.201	0.194	0.203	3.2
Hexachlorobenzene	0.243	0.232	0.222	0.214	0.208	0.224	6.2
Atrazine	0.210	0.208	0.197	0.180	0.161	0.191	11.0
Pentachlorophenol		0.135	0.145	0.140	0.146	0.141	3.8
Phenanthrene	1.186	1.137	1.083	1.048	1.014	1.094	6.3
Anthracene	1.215	1.170	1.107	1.060	1.028	1.116	6.9
Carbazole	0.999	0.894	0.603	0.504	0.375	0.675	39.0
Di-n-butylphthalate	1.407	1.393	1.414	1.375	1.310	1.380	3.0
Fluoranthene	1.217	1.187	1.126	1.076	1.033	1.128	6.8
Pyrene	1.346	1.285	1.214	1.184	1.164	1.238	6.1
Butylbenzylphthalate	0.643	0.652	0.667	0.665	0.652	0.656	1.6
3,3'-Dichlorobenzidine	0.371	0.345	0.315	0.289	0.296	0.323	10.6
Benzo(a)anthracene	1.200	1.164	1.126	1.093	1.100	1.137	4.0
Chrysene	1.097	1.078	1.036	0.993	0.956	1.032	5.7
Bis(2-ethylhexyl)phthalate	0.956	0.971	0.997	0.978	0.924	0.965	2.8
Di-n-octylphthalate	1.664	1.696	1.750	1.715	1.615	1.688	3.0
Benzo(b)fluoranthene	1.202	1.188	1.132	1.152	1.139	1.163	2.7
Benzo(k)fluoranthene	1.186	1.198	1.135	1.067	1.050	1.127	6.0
Benzo(a)pyrene	1.185	1.162	1.110	1.080	1.070	1.121	4.5
Indeno(1,2,3-cd)pyrene	1.066	1.101	1.071	1.102	1.156	1.099	3.3
Dibenzo(a,h)anthracene	1.139	1.137	1.124	1.118	1.121	1.128	0.9
Benzo(g,h,i)perylene	1.128	1.124	1.101	1.107	1.107	1.113	1.1
2,3,4,6-Tetrachlorophenol	0.257	0.282	0.301	0.293	0.288	0.284	5.9

[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.: F9M21

Instrument ID: 5975-G Calibration Date(s): 05/27/2015 05/27/2015

Calibration Time(s): 15:49 19:02

LAB FILE ID: RRF 5.0 = GAX02S05 RRF 10 = GAX03S10

RRF 20 = GAX01S20 RRF 40 = GAX06S40 RRF 80 = GAX07S80

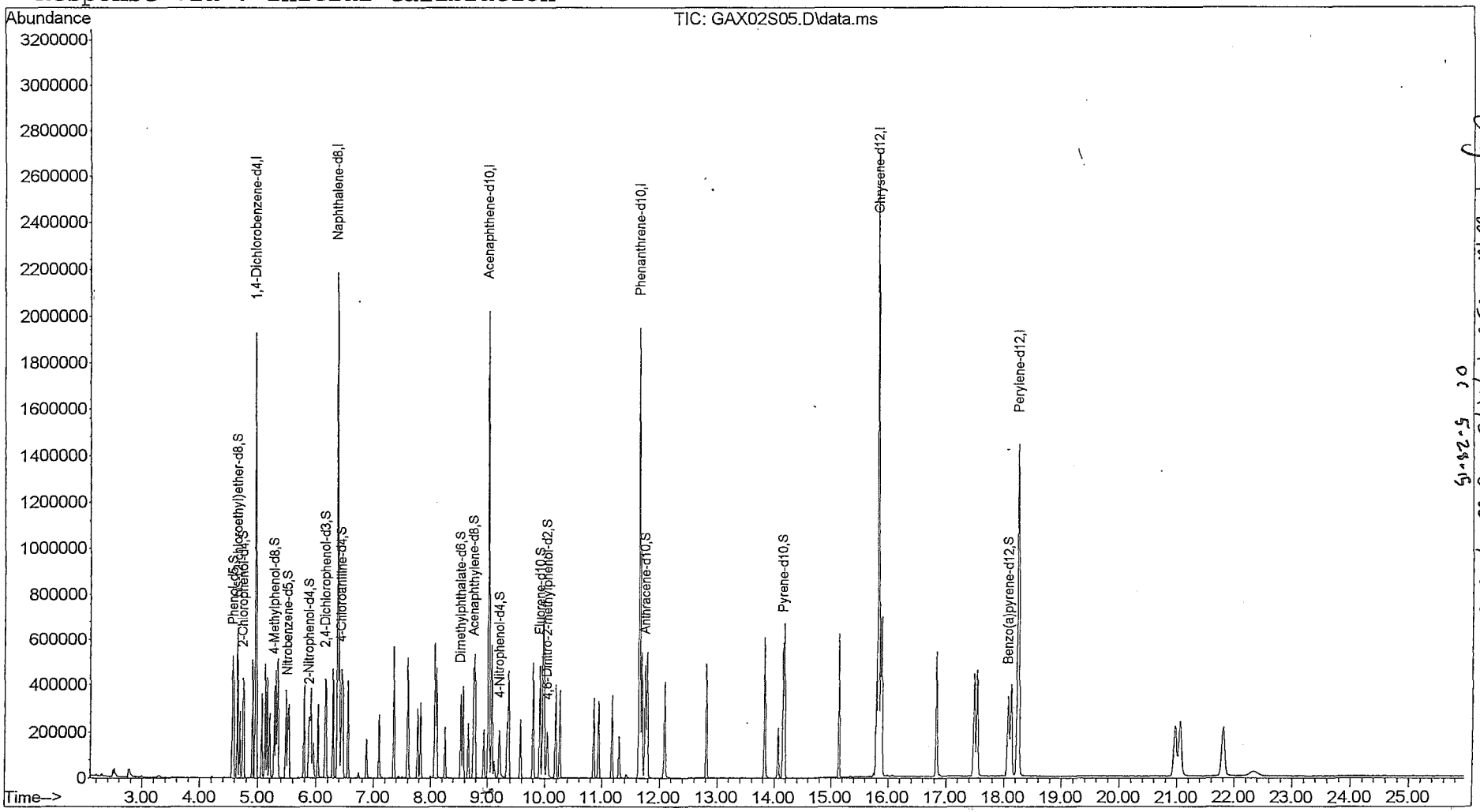
COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
Phenol-d5	1.477	1.403	1.423	1.351	1.319	1.395	4.4
Bis(2-chloroethyl)ether-d8	0.902	0.865	0.870	0.817	0.817	0.854	4.3
2-Chlorophenol-d4	1.451	1.374	1.397	1.335	1.290	1.369	4.4
4-Methylphenol-d8	1.128	1.096	1.102	1.056	1.046	1.086	3.1
Nitrobenzene-d5	0.176	0.167	0.170	0.164	0.162	0.168	3.3
2-Nitrophenol-d4	0.197	0.185	0.188	0.184	0.181	0.187	3.3
2,4-Dichlorophenol-d3	0.286	0.277	0.278	0.270	0.259	0.274	3.7
4-Chloroaniline-d4	0.374	0.360	0.307	0.250	0.194	0.297	25.5
Dimethylphthalate-d6	1.270	1.234	1.235	1.195	1.148	1.216	3.8
Acenaphthylene-d8	1.707	1.655	1.663	1.585	1.506	1.623	4.9
4-Nitrophenol-d4		0.255	0.265	0.261	0.255	0.259	2.0
Fluorene-d10	1.108	1.077	1.079	1.032	0.986	1.056	4.5
4,6-Dinitro-2-methylphenol-d2		0.123	0.135	0.133	0.135	0.131	4.4
Anthracene-d10	1.075	1.047	1.039	0.962	0.936	1.012	5.9
Pyrene-d10	0.946	0.922	0.928	0.885	0.866	0.909	3.6
Benzo(a)pyrene-d12	0.930	0.926	0.934	0.882	0.864	0.907	3.5

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX02S05.D Vial: 2
Acq On : 05/27/2015 16:21 Operator: DJC
Sample : SSTD005GX 28167 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 28 10:03:36 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration



Original with SDG: F9K48 Case: 45316
OC 5-28-15

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX02S05.D Vial: 2
Acq On : 05/27/2015 16:21 Operator: DJC
Sample : SSTD005GX 28167 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 10:03:36 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	351338	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1304988	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	717570	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1160895	20.00 ug/ml
73) Chrysene-d12	15.83	240	1127146	20.00 ug/ml
81) Perylene-d12	18.24	264	1096790	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	129756	5.190ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	79252	5.188ug/mL
7) 2-Chlorophenol-d4	4.74	132	127424	5.193ug/ml
13) 4-Methylphenol-d8	5.28	113	99100	5.117ug/mL
17) Nitrobenzene-d5	5.51	128	57567	5.201ug/ml
21) 2-Nitrophenol-d4	5.87	143	64348	5.246ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	93257	5.150ug/mL
28) 4-Chloroaniline-d4	6.43	131	122144	6.091ug/mL
42) Dimethylphthalate-d6	8.53	166	227747	5.139ug/mL
45) Acenaphthylene-d8	8.76	160	306302	5.134ug/mL
50) 4-Nitrophenol-d4	9.20	143	43515	4.577ug/mL
57) Fluorene-d10	9.92	176	198682	5.133ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	31740	4.055ug/mL
69) Anthracene-d10	11.75	188	312030	5.176ug/mL
75) Pyrene-d10	14.15	212	266460	5.097ug/mL
86) Benzo(a)pyrene-d12	18.07	264	255085	4.979ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.56	77	81404	5.986ug/ml 97
4) Phenol	4.58	94	119004	4.637ug/ml 97
5) Bis(2-chloroethyl)ether	4.69	93	102194	4.851ug/ml 94
8) 2-Chlorophenol	4.75	128	109297	4.607ug/ml 94
9) 2-Methylphenol	5.16	108	102365	5.376ug/ml 98
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	125151	5.277ug/ml 100
11) Acetophenone	5.34	105	145723	5.287ug/ml 98
12) 4-methylphenol	5.30	108	106343	5.337ug/ml 96
14) N-Nitroso-di-n-propylamine	5.33	70	63813	5.297ug/ml 98
15) Hexachloroethane	5.47	117	56210	5.522ug/ml 99
18) Nitrobenzene	5.53	77	108576	5.538ug/ml 98
19) Isophorone	5.79	82	185226	5.438ug/ml 98
20) 2-Nitrophenol	5.89	139	62226	4.694ug/ml 97
22) 2,4-Dimethylphenol	5.91	107	95679	4.625ug/ml 93
23) Bis(2-chloroethoxy)methane	6.03	93	118962	5.154ug/ml 100
24) 2,4-Dichlorophenol	6.17	162	83468	4.498ug/ml 97
26) Naphthalene	6.40	128	354475	5.521ug/ml 99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00553

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX02S05.D Vial: 2
Acq On : 05/27/2015 16:21 Operator: DJC
Sample : SSTD005GX 28167 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 10:03:36 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.45	127	132115	5.753ug/ml	95
29)	Hexachlorobutadiene	6.55	225	60385	5.477ug/ml	99
30)	Caprolactam	6.88	113	32425	5.150ug/ml	76
31)	4-Chloro-3-methylphenol	7.09	107	80588	4.512ug/ml	96
32)	2-Methylnaphthalene	7.36	142	222843	5.194ug/ml	96
34)	1,2,4,5-Tetrachlorobenzene	7.60	216	94631	5.114ug/mL	99
35)	Hexachlorocyclopentadiene	7.59	237	60993	4.755ug/ml	99
36)	2,4,6-Trichlorophenol	7.77	196	59223	4.486ug/ml	98
37)	2,4,5-Trichlorophenol	7.82	196	68244	5.027ug/ml	97
38)	1,1'-Biphenyl	8.07	154	268913	5.332ug/ml	98
39)	2-Chloronaphthalene	8.10	162	210637	5.520ug/ml	97
40)	2-Nitroaniline	8.25	65	52195	4.961ug/ml	88
41)	Dimethylphthalate	8.57	163	230832	5.147ug/ml	98
43)	2,6-Dinitrotoluene	8.66	165	53060	5.197ug/ml	89
44)	Acenaphthylene	8.78	152	351012	5.439ug/ml	99
46)	3-Nitroaniline	8.93	138	57015	7.296ug/ml	94
47)	Acenaphthene	9.07	153	217332	5.495ug/ml	94
48)	2,4-Dinitrophenol	9.12	184	17983	2.852ug/ml	100
49)	4-Nitrophenol	9.22	109	23827	4.270ug/ml	95
51)	Dibenzofuran	9.37	168	282478	5.184ug/ml	99
52)	2,4-Dinitrotoluene	9.35	165	72818	5.264ug/ml	93
53)	2,3,4,6-Tetrachlorophenol	9.57	232	46068	4.267ug/mL	98
54)	Diethylphthalate	9.80	149	236055	5.033ug/ml	98
55)	4-Chlorophenyl-phenylether	9.98	204	110468	5.234ug/ml	99
56)	Fluorene	9.97	166	238309	5.471ug/ml	98
58)	4-Nitroaniline	9.99	138	53716	5.940ug/ml	76
60)	4,6-Dinitro-2-methylphenol	10.05	198	33622	3.789ug/ml	95
62)	N-Nitrosodiphenylamine	10.19	169	160853	5.203ug/ml	100
63)	4-Bromophenyl-phenyl ether	10.86	248	61503	5.152ug/ml	99
64)	Hexachlorobenzene	10.95	284	70426	5.471ug/ml	87
65)	Atrazine	11.17	200	61076	5.333ug/ml	96
66)	Pentachlorophenol	11.30	266	32352	3.833ug/ml	99
67)	Phenanthrene	11.69	178	344119	5.472ug/ml	99
68)	Anthracene	11.79	178	352716	5.487ug/ml	100
70)	Carbazole	12.09	167	289933	8.281ug/mL	99
71)	Di-n-butylphthalate	12.81	149	408335	4.974ug/ml	99
72)	Fluoranthene	13.83	202	353302	5.404ug/ml	97
74)	Pyrene	14.17	202	379379	5.547ug/ml	97
76)	Butylbenzylphthalate	15.14	149	181096	4.814ug/ml	92
77)	3,3'-Dichlorobenzidine	15.79	252	104439	5.890ug/ml	97
78)	Benzo(a)anthracene	15.82	228	338178	5.331ug/ml	100
79)	Chrysene	15.86	228	309146	5.297ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	269512	4.797ug/ml	98

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX02S05.D Vial: 2
Acq On : 05/27/2015 16:21 Operator: DJC
Sample : SSTD005GX 28167 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 10:03:36 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82)	Di-n-octylphthalate	16.83	149	456292	4.755ug/ml	99
83)	Benzo(b)fluoranthene	17.49	252	329646	5.312ug/ml	99
84)	Benzo(k)fluoranthene	17.53	252	325177	5.226ug/ml	98
85)	Benzo(a)pyrene	18.12	252	324893	5.340ug/ml	98
87)	Indeno(1,2,3-c,d)pyrene	20.97	276	292396	4.978ug/ml	94
88)	Dibenzo(a,h)anthracene	21.06	278	312230	5.066ug/ml	97
89)	Benzo(g,h,i)perylene	21.80	276	309390	5.124ug/ml	96

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

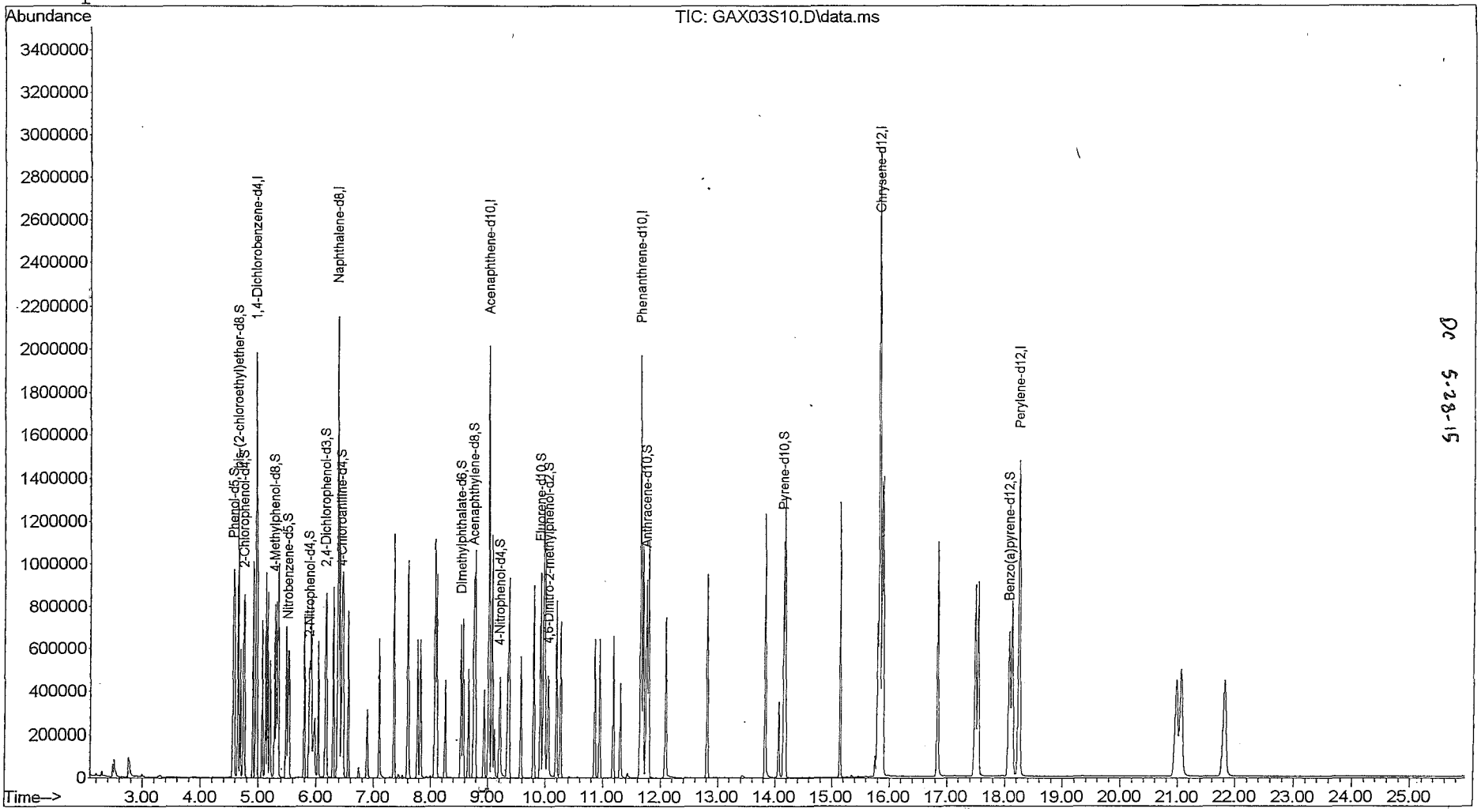
00555

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX03S10.D Vial: 3
Acq On : 05/27/2015 16:54 Operator: DJC
Sample : SSTD010GX 28168 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 27 17:20:14 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration



5-28-15 DC

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX03S10.D Vial: 3
Acq On : 05/27/2015 16:54 Operator: DJC
Sample : SSTD010GX 28168 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 27 17:20:14 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	355748	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1310552	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	716547	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1172306	20.00 ug/ml
73) Chrysene-d12	15.83	240	1133114	20.00 ug/ml
81) Perylene-d12	18.24	264	1101435	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	249576	10.025ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	153785	10.036ug/mL
7) 2-Chlorophenol-d4	4.74	132	244322	10.016ug/ml
13) 4-Methylphenol-d8	5.28	113	195025	10.091ug/mL
17) Nitrobenzene-d5	5.51	128	109241	9.910ug/ml
21) 2-Nitrophenol-d4	5.87	143	121091	9.785ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	181745	10.097ug/mL
28) 4-Chloroaniline-d4	6.43	131	236113	12.463ug/mL
42) Dimethylphthalate-d6	8.53	166	442051	10.190ug/mL
45) Acenaphthylene-d8	8.76	160	592979	10.294ug/mL
50) 4-Nitrophenol-d4	9.20	143	91183	9.937ug/mL
57) Fluorene-d10	9.92	176	385999	10.231ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	72036	9.380ug/mL
69) Anthracene-d10	11.75	188	613487	10.404ug/mL
75) Pyrene-d10	14.15	212	522506	10.269ug/mL
86) Benzo(a)pyrene-d12	18.07	264	509737	10.323ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.56	77	157634	9.898ug/ml 97
4) Phenol	4.58	94	258689	10.630ug/ml 98
5) Bis(2-chloroethyl)ether	4.69	93	200740	9.556ug/ml 94
8) 2-Chlorophenol	4.76	128	238503	10.613ug/ml 93
9) 2-Methylphenol	5.16	108	196341	10.141ug/ml 97
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	240354	10.185ug/ml 100
11) Acetophenone	5.35	105	282433	10.232ug/ml 98
12) 4-methylphenol	5.31	108	203061	9.967ug/ml 94
14) N-Nitroso-di-n-propylamine	5.33	70	123618	10.339ug/ml 97
15) Hexachloroethane	5.47	117	106639	9.922ug/ml 98
18) Nitrobenzene	5.53	77	205210	9.982ug/ml 97
19) Isophorone	5.79	82	353716	9.941ug/ml 98
20) 2-Nitrophenol	5.89	139	132956	10.593ug/ml 98
22) 2,4-Dimethylphenol	5.91	107	205967	10.466ug/ml 94
23) Bis(2-chloroethoxy)methane	6.03	93	235013	10.349ug/ml 99
24) 2,4-Dichlorophenol	6.17	162	181558	10.420ug/ml 99
26) Naphthalene	6.40	128	679545	10.370ug/ml 99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00557

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX03S10.D Vial: 3
Acq On : 05/27/2015 16:54 Operator: DJC
Sample : SSTD010GX 28168 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 27 17:20:14 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.45	127	260068	12.085ug/ml	96
29)	Hexachlorobutadiene	6.55	225	115632	10.107ug/ml	99
30)	Caprolactam	6.89	113	62954	9.902ug/ml	78
31)	4-Chloro-3-methylphenol	7.10	107	175987	10.452ug/ml	95
32)	2-Methylnaphthalene	7.36	142	439314	10.380ug/ml	97
34)	1,2,4,5-Tetrachlorobenzene	7.60	216	185248	10.750ug/mL	99
35)	Hexachlorocyclopentadiene	7.59	237	128297	9.792ug/ml	99
36)	2,4,6-Trichlorophenol	7.77	196	126962	10.505ug/ml	99
37)	2,4,5-Trichlorophenol	7.82	196	138482	10.233ug/ml	99
38)	1,1'-Biphenyl	8.07	154	516532	10.399ug/ml	98
39)	2-Chloronaphthalene	8.10	162	400214	10.219ug/ml	97
40)	2-Nitroaniline	8.26	65	105484	10.363ug/ml	89
41)	Dimethylphthalate	8.57	163	454227	10.512ug/ml	99
43)	2,6-Dinitrotoluene	8.66	165	103384	10.031ug/ml	89
44)	Acenaphthylene	8.78	152	681014	10.588ug/ml	99
46)	3-Nitroaniline	8.93	138	112627	15.015ug/ml	92
47)	Acenaphthene	9.07	153	418960	10.533ug/ml	94
48)	2,4-Dinitrophenol	9.12	184	51429	8.295ug/ml	100
49)	4-Nitrophenol	9.22	109	53189	10.178ug/ml	93
51)	Dibenzofuran	9.37	168	559856	10.586ug/ml	100
52)	2,4-Dinitrotoluene	9.35	165	140848	10.160ug/ml	93
53)	2,3,4,6-Tetrachlorophenol	9.57	232	101139	10.262ug/mL	97
54)	Diethylphthalate	9.80	149	464578	10.393ug/ml	97
55)	4-Chlorophenyl-phenylether	9.99	204	215041	10.663ug/ml	98
56)	Fluorene	9.97	166	458788	10.657ug/ml	98
58)	4-Nitroaniline	9.99	138	105465	12.300ug/ml	73
60)	4,6-Dinitro-2-methylphenol	10.05	198	80806	9.540ug/ml	96
62)	N-Nitrosodiphenylamine	10.19	169	319677	10.715ug/ml	100
63)	4-Bromophenyl-phenyl ether	10.86	248	119585	10.271ug/ml	99
64)	Hexachlorobenzene	10.95	284	135754	10.316ug/ml	87
65)	Atrazine	11.18	200	122008	10.981ug/ml	97
66)	Pentachlorophenol	11.30	266	78889	9.983ug/ml	99
67)	Phenanthrene	11.69	178	666492	10.716ug/ml	100
68)	Anthracene	11.79	178	685821	10.696ug/ml	100
70)	Carbazole	12.09	167	523995	13.103ug/mL	98
71)	Di-n-butylphthalate	12.81	149	816796	10.328ug/ml	99
72)	Fluoranthene	13.83	202	695764	10.733ug/ml	96
74)	Pyrene	14.18	202	727911	10.705ug/ml	97
76)	Butylbenzylphthalate	15.14	149	369545	10.275ug/ml	91
77)	3,3'-Dichlorobenzidine	15.79	252	195190	10.683ug/ml	99
78)	Benzo(a)anthracene	15.82	228	659738	10.548ug/ml	100
79)	Chrysene	15.86	228	610480	10.722ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	550385	10.297ug/ml	98

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00559

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX03S10.D Vial: 3
Acq On : 05/27/2015 16:54 Operator: DJC
Sample : SSTD010GX 28168 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 27 17:20:14 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.83	149	934198	10.363ug/ml	99
83) Benzo(b)fluoranthene	17.49	252	653984	10.428ug/ml	98
84) Benzo(k)fluoranthene	17.54	252	659985	10.976ug/ml	98
85) Benzo(a)pyrene	18.12	252	640124	10.609ug/ml	98
87) Indeno(1,2,3-c,d)pyrene	20.97	276	606590	10.184ug/ml	92
88) Dibenzo(a,h)anthracene	21.06	278	626411	10.221ug/ml	97
89) Benzo(g,h,i)perylene	21.81	276	618779	10.244ug/ml	96

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

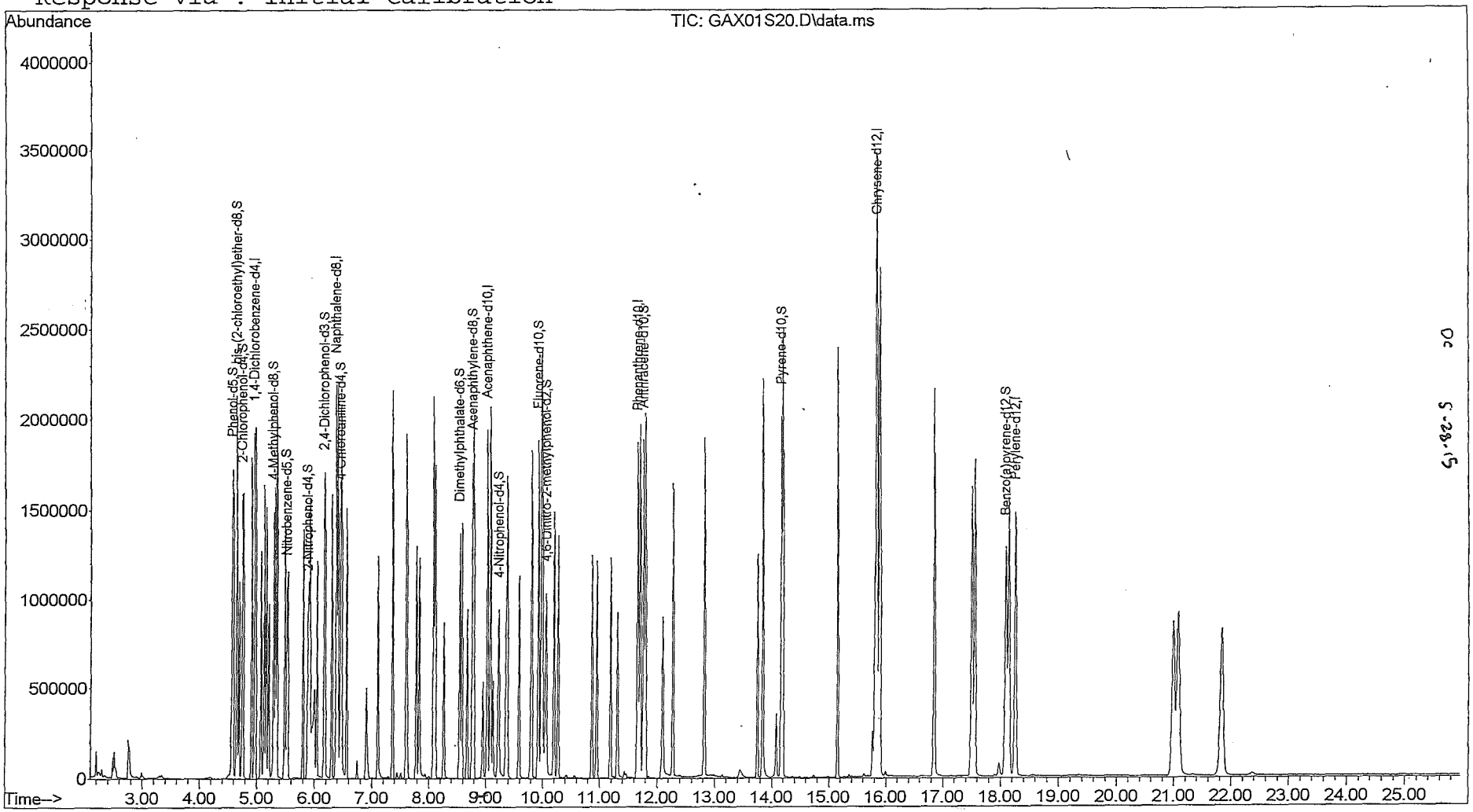
00559

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX01S20.D Vial: 1
Acq On : 05/27/2015 15:49 Operator: DJC
Sample : SSTD020GX 28165 DFTPPGX Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 27 16:15:53 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX01S20.D Vial: 1
Acq On : 05/27/2015 15:49 Operator: DJC
Sample : SSTD020GX 28165 DFTPPGX Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 27 16:15:53 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	339445	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1263698	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	695180	20.00 ug/ml
59) Phenanthrene-d10	11.66	188	1134114	20.00 ug/ml
73) Chrysene-d12	15.84	240	1090547	20.00 ug/ml
81) Perylene-d12	18.26	264	1082942	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	483117	20.338ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	295189	20.190ug/mL
7) 2-Chlorophenol-d4	4.75	132	474152	20.371ug/ml
13) 4-Methylphenol-d8	5.29	113	374219	20.292ug/mL
17) Nitrobenzene-d5	5.52	128	214365	20.168ug/ml
21) 2-Nitrophenol-d4	5.88	143	237577	19.909ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	350732	20.208ug/mL
28) 4-Chloroaniline-d4	6.45	131	388346	21.258ug/mL
42) Dimethylphthalate-d6	8.54	166	858724	20.403ug/mL
45) Acenaphthylene-d8	8.76	160	1156050	20.687ug/mL
50) 4-Nitrophenol-d4	9.22	143	184202	20.690ug/mL
57) Fluorene-d10	9.92	176	749979	20.489ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	152923	20.582ug/mL
69) Anthracene-d10	11.76	188	1177918	20.648ug/mL
75) Pyrene-d10	14.16	212	1011585	20.658ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1011724	20.838ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.56	77	262783	17.293ug/ml 93
4) Phenol	4.59	94	495889	21.355ug/ml 98
5) Bis(2-chloroethyl)ether	4.69	93	407057	20.309ug/ml 89
8) 2-Chlorophenol	4.76	128	458467	21.380ug/ml 94
9) 2-Methylphenol	5.16	108	367930	19.917ug/ml 96
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	458241	20.350ug/ml 100
11) Acetophenone	5.35	105	532547	20.220ug/ml 98
12) 4-methylphenol	5.31	108	385051	19.808ug/ml 96
14) N-Nitroso-di-n-propylamine	5.34	70	232783	20.404ug/ml 98
15) Hexachloroethane	5.48	117	196696	19.181ug/ml 97
18) Nitrobenzene	5.53	77	379695	19.153ug/ml 96
19) Isophorone	5.80	82	659650	19.226ug/ml 98
20) 2-Nitrophenol	5.89	139	256727	21.213ug/ml 99
22) 2,4-Dimethylphenol	5.92	107	400664	21.114ug/ml 96
23) Bis(2-chloroethoxy)methane	6.04	93	447007	20.413ug/ml 99
24) 2,4-Dichlorophenol	6.17	162	359394	21.392ug/ml 99
26) Naphthalene	6.40	128	1243481	19.680ug/ml 99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00561

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX01S20.D Vial: 1
Acq On : 05/27/2015 15:49 Operator: DJC
Sample : SSTD020GX 28165 DFTPPGX Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 27 16:15:53 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.46	127	444785	21.434ug/ml	96
29)	Hexachlorobutadiene	6.56	225	213543	19.356ug/ml	99
30)	Caprolactam	6.90	113	121928	19.889ug/ml	77
31)	4-Chloro-3-methylphenol	7.10	107	345939	21.307ug/ml	96
32)	2-Methylnaphthalene	7.36	142	830875	20.361ug/ml	97
34)	1,2,4,5-Tetrachlorobenzene	7.61	216	358547	21.446ug/mL	99
35)	Hexachlorocyclopentadiene	7.60	237	248515	19.551ug/ml	99
36)	2,4,6-Trichlorophenol	7.77	196	255807	21.816ug/ml	100
37)	2,4,5-Trichlorophenol	7.83	196	263035	20.035ug/ml	99
38)	1,1'-Biphenyl	8.08	154	977208	20.278ug/ml	98
39)	2-Chloronaphthalene	8.11	162	739340	19.459ug/ml	98
40)	2-Nitroaniline	8.26	65	203870	20.645ug/ml	87
41)	Dimethylphthalate	8.58	163	868989	20.729ug/ml	99
43)	2,6-Dinitrotoluene	8.67	165	197806	19.782ug/ml	89
44)	Acenaphthylene	8.79	152	1250435	20.039ug/ml	99
46)	3-Nitroaniline	8.95	138	151423	20.808ug/ml	93
47)	Acenaphthene	9.08	153	766271	19.858ug/ml	94
48)	2,4-Dinitrophenol	9.12	184	122157	20.309ug/ml	100
49)	4-Nitrophenol	9.23	109	108118	21.324ug/ml	91
51)	Dibenzofuran	9.37	168	1055793	20.576ug/ml	99
52)	2,4-Dinitrotoluene	9.35	165	268016	19.927ug/ml	93
53)	2,3,4,6-Tetrachlorophenol	9.59	232	209171	21.875ug/mL	97
54)	Diethylphthalate	9.80	149	908689	20.952ug/ml	98
55)	4-Chlorophenyl-phenylether	9.99	204	408974	20.902ug/ml	98
56)	Fluorene	9.97	166	843999	20.207ug/ml	98
58)	4-Nitroaniline	10.00	138	175210	21.061ug/ml	66
60)	4,6-Dinitro-2-methylphenol	10.06	198	173394	21.159ug/ml	92
62)	N-Nitrosodiphenylamine	10.20	169	604002	20.927ug/ml	99
63)	4-Bromophenyl-phenyl ether	10.86	248	233264	20.709ug/ml	100
64)	Hexachlorobenzene	10.95	284	251528	19.756ug/ml	87
65)	Atrazine	11.19	200	223784	20.820ug/ml	97
66)	Pentachlorophenol	11.31	266	164904	21.571ug/ml	99
67)	Phenanthrene	11.70	178	1228639	20.419ug/ml	99
68)	Anthracene	11.79	178	1255885	20.247ug/ml	100
70)	Carbazole	12.09	167	684105	17.683ug/mL	98
71)	Di-n-butylphthalate	12.82	149	1604143	20.967ug/ml	99
72)	Fluoranthene	13.83	202	1277344	20.369ug/ml	97
74)	Pyrene	14.19	202	1323437	20.223ug/ml	97
76)	Butylbenzylphthalate	15.14	149	727929	21.031ug/ml	92
77)	3,3'-Dichlorobenzidine	15.80	252	343104	19.511ug/ml	99
78)	Benzo(a)anthracene	15.82	228	1227605	20.394ug/ml	100
79)	Chrysene	15.87	228	1129363	20.610ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	1087258	21.136ug/ml	97

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00562

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX01S20.D Vial: 1
Acq On : 05/27/2015 15:49 Operator: DJC
Sample : SSTD020GX 28165 DFTPPGX Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 27 16:15:53 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.84	149	1894953	21.380ug/ml	100
83) Benzo(b)fluoranthene	17.50	252	1225511	19.875ug/ml	98
84) Benzo(k)fluoranthene	17.55	252	1228835	20.785ug/ml	98
85) Benzo(a)pyrene	18.14	252	1201527	20.254ug/ml	98
87) Indeno(1,2,3-c,d)pyrene	21.00	276	1159910	19.806ug/ml	92
88) Dibenzo(a,h)anthracene	21.08	278	1217054	20.197ug/ml	97
89) Benzo(g,h,i)perylene	21.84	276	1192283	20.075ug/ml	96

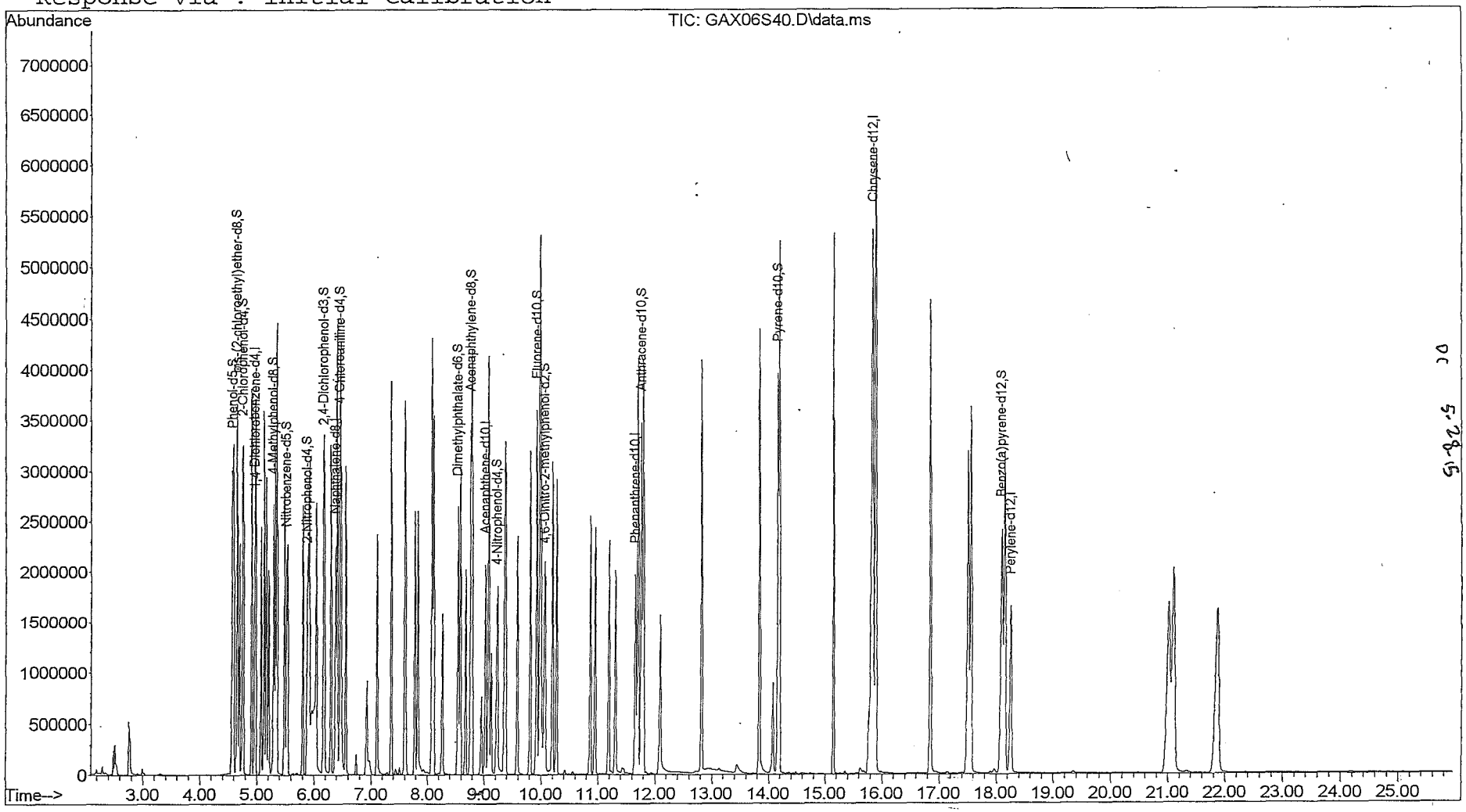
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX06S40.D Vial: 4
Acq On : 05/27/2015 18:30 Operator: DJC
Sample : SSTD040GX 28170 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 28 11:13:25 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX06S40.D Vial: 4
Acq On : 05/27/2015 18:30 Operator: DJC
Sample : SSTD040GX 28170 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 11:13:25 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	356855	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1321883	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	742931	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1245463	20.00 ug/ml
73) Chrysene-d12	15.83	240	1172449	20.00 ug/ml
81) Perylene-d12	18.25	264	1190170	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	963937	37.659ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	582884	37.172ug/mL
7) 2-Chlorophenol-d4	4.75	132	953158	37.966ug/ml
13) 4-Methylphenol-d8	5.29	113	753888	38.098ug/mL
17) Nitrobenzene-d5	5.52	128	434096	38.424ug/ml
21) 2-Nitrophenol-d4	5.88	143	486359	38.727ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	714738	38.587ug/mL
28) 4-Chloroaniline-d4	6.45	131	660458	28.769ug/mL
42) Dimethylphthalate-d6	8.54	166	1776092	38.367ug/mL
45) Acenaphthylene-d8	8.76	160	2354402	37.836ug/mL
50) 4-Nitrophenol-d4	9.22	143	388511	40.267ug/mL
57) Fluorene-d10	9.92	176	1533842	37.955ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	331171	41.267ug/mL
69) Anthracene-d10	11.76	188	2397355	36.544ug/mL
75) Pyrene-d10	14.16	212	2074679	37.980ug/mL
86) Benzo(a)pyrene-d12	18.09	264	2098592	37.918ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.56	77	632003	41.073ug/ml 95
4) Phenol	4.59	94	995640	39.204ug/ml 98
5) Bis(2-chloroethyl)ether	4.69	93	836652	40.293ug/ml 90
8) 2-Chlorophenol	4.76	128	922966	39.428ug/ml 94
9) 2-Methylphenol	5.16	108	767472	38.483ug/ml 97
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	926148	37.740ug/ml 100
11) Acetophenone	5.35	105	1095078	38.233ug/ml 98
12) 4-methylphenol	5.32	108	813941	39.250ug/ml 96
14) N-Nitroso-di-n-propylamine	5.35	70	482462	38.495ug/ml 96
15) Hexachloroethane	5.48	117	416258	38.477ug/ml 97
18) Nitrobenzene	5.53	77	803948	38.556ug/ml 97
19) Isophorone	5.80	82	1401913	39.049ug/ml 98
20) 2-Nitrophenol	5.89	139	517851	39.386ug/ml 100
22) 2,4-Dimethylphenol	5.92	107	804998	39.516ug/ml 96
23) Bis(2-chloroethoxy)methane	6.04	93	936581	39.471ug/ml 96
24) 2,4-Dichlorophenol	6.18	162	725691	40.302ug/ml 99
26) Naphthalene	6.40	128	2599955	37.976ug/ml 100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

88565

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX06S40.D Vial: 4
Acq On : 05/27/2015 18:30 Operator: DJC
Sample : SSTD040GX 28170 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 11:13:25 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
27)	4-Chloroaniline	6.46	127	738693	29.060ug/ml		96
29)	Hexachlorobutadiene	6.56	225	455009	38.928ug/ml		99
30)	Caprolactam	6.93	113	261604	40.673ug/ml	m	77
31)	4-Chloro-3-methylphenol	7.10	107	714560	41.090ug/ml	DL 5-29-15	95
32)	2-Methylnaphthalene	7.36	142	1563318	35.286ug/ml		96
34)	1,2,4,5-Tetrachlorobenzene	7.61	216	670536	34.706ug/mL		99
35)	Hexachlorocyclopentadiene	7.60	237	539352	41.265ug/ml		99
36)	2,4,6-Trichlorophenol	7.77	196	526132	40.373ug/ml		100
37)	2,4,5-Trichlorophenol	7.83	196	565168	39.853ug/ml		99
38)	1,1'-Biphenyl	8.08	154	2003146	37.220ug/ml		96
39)	2-Chloronaphthalene	8.11	162	1566218	37.705ug/ml		98
40)	2-Nitroaniline	8.26	65	392894	35.995ug/ml		86
41)	Dimethylphthalate	8.58	163	1851827	39.309ug/ml		99
43)	2,6-Dinitrotoluene	8.67	165	429694	39.940ug/ml		89
44)	Acenaphthylene	8.79	152	2649191	37.826ug/ml		99
46)	3-Nitroaniline	8.95	138	233104	23.583ug/ml		93
47)	Acenaphthene	9.08	153	1624548	37.667ug/ml		94
48)	2,4-Dinitrophenol	9.12	184	279037	47.057ug/ml		100
49)	4-Nitrophenol	9.23	109	230717	40.864ug/ml		91
51)	Dibenzofuran	9.37	168	2010801	34.878ug/ml		98
52)	2,4-Dinitrotoluene	9.36	165	580416	39.571ug/ml		96
53)	2,3,4,6-Tetrachlorophenol	9.58	232	434768	41.801ug/mL		97
54)	Diethylphthalate	9.81	149	1939039	39.952ug/ml		98
55)	4-Chlorophenyl-phenylether	9.99	204	856426	38.334ug/ml		98
56)	Fluorene	9.97	166	1763393	37.251ug/ml		98
58)	4-Nitroaniline	10.00	138	335731	33.082ug/ml		65
60)	4,6-Dinitro-2-methylphenol	10.07	198	374489	41.367ug/ml		93
62)	N-Nitrosodiphenylamine	10.20	169	1263821	37.302ug/ml		99
63)	4-Bromophenyl-phenyl ether	10.86	248	500886	38.819ug/ml		99
64)	Hexachlorobenzene	10.95	284	533136	36.899ug/ml		88
65)	Atrazine	11.19	200	447963	35.038ug/ml		97
66)	Pentachlorophenol	11.30	266	347848	39.900ug/ml		99
67)	Phenanthrene	11.70	178	2611675	36.939ug/ml		100
68)	Anthracene	11.79	178	2640326	36.418ug/ml		99
70)	Carbazole	12.09	167	1255940	24.239ug/mL		98
71)	Di-n-butylphthalate	12.82	149	3425149	39.148ug/ml		99
72)	Fluoranthene	13.83	202	2679398	36.560ug/ml		97
74)	Pyrene	14.19	202	2776024	36.950ug/ml		97
76)	Butylbenzylphthalate	15.14	149	1559120	40.658ug/ml		91
77)	3,3'-Dichlorobenzidine	15.79	252	677779	33.683ug/ml		99
78)	Benzo(a)anthracene	15.82	228	2562358	37.570ug/ml		100
79)	Chrysene	15.87	228	2328231	37.115ug/ml		99
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	2292896	40.117ug/ml		98

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00566

Quantitation Report

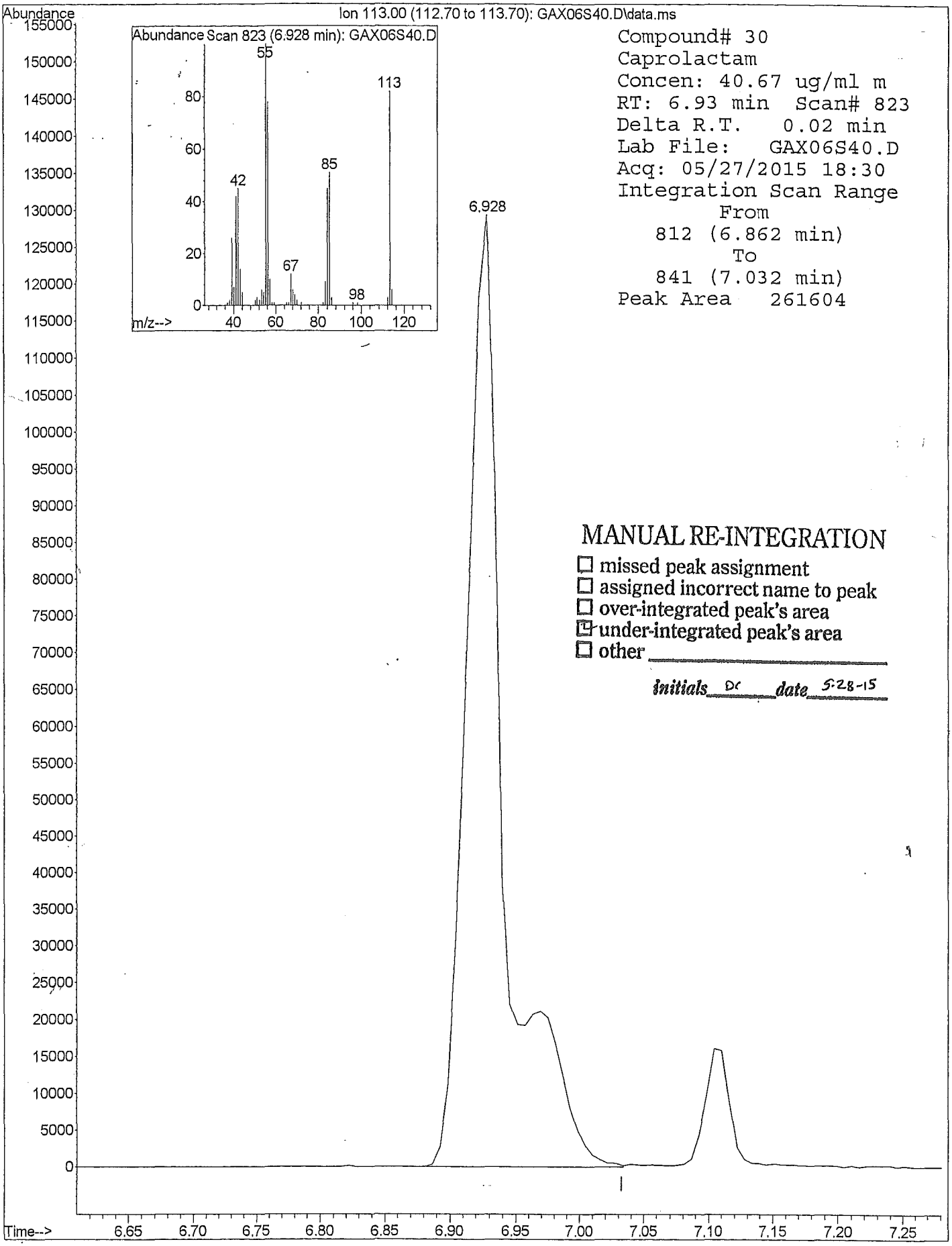
Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX06S40.D Vial: 4
Acq On : 05/27/2015 18:30 Operator: DJC
Sample : SSTD040GX 28170 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 11:13:25 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82)	Di-n-octylphthalate	16.84	149	4081868	40.268ug/ml	100
83)	Benzo(b)fluoranthene	17.50	252	2742953	39.269ug/ml	98
84)	Benzo(k)fluoranthene	17.56	252	2540766	36.398ug/ml	98
85)	Benzo(a)pyrene	18.15	252	2571746	37.506ug/ml	98
87)	Indeno(1,2,3-c,d)pyrene	21.02	276	2622046	40.812ug/ml	93
88)	Dibenzo(a,h)anthracene	21.10	278	2661464	39.463ug/ml	97
89)	Benzo(g,h,i)perylene	21.86	276	2634380	39.610ug/ml	96

(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



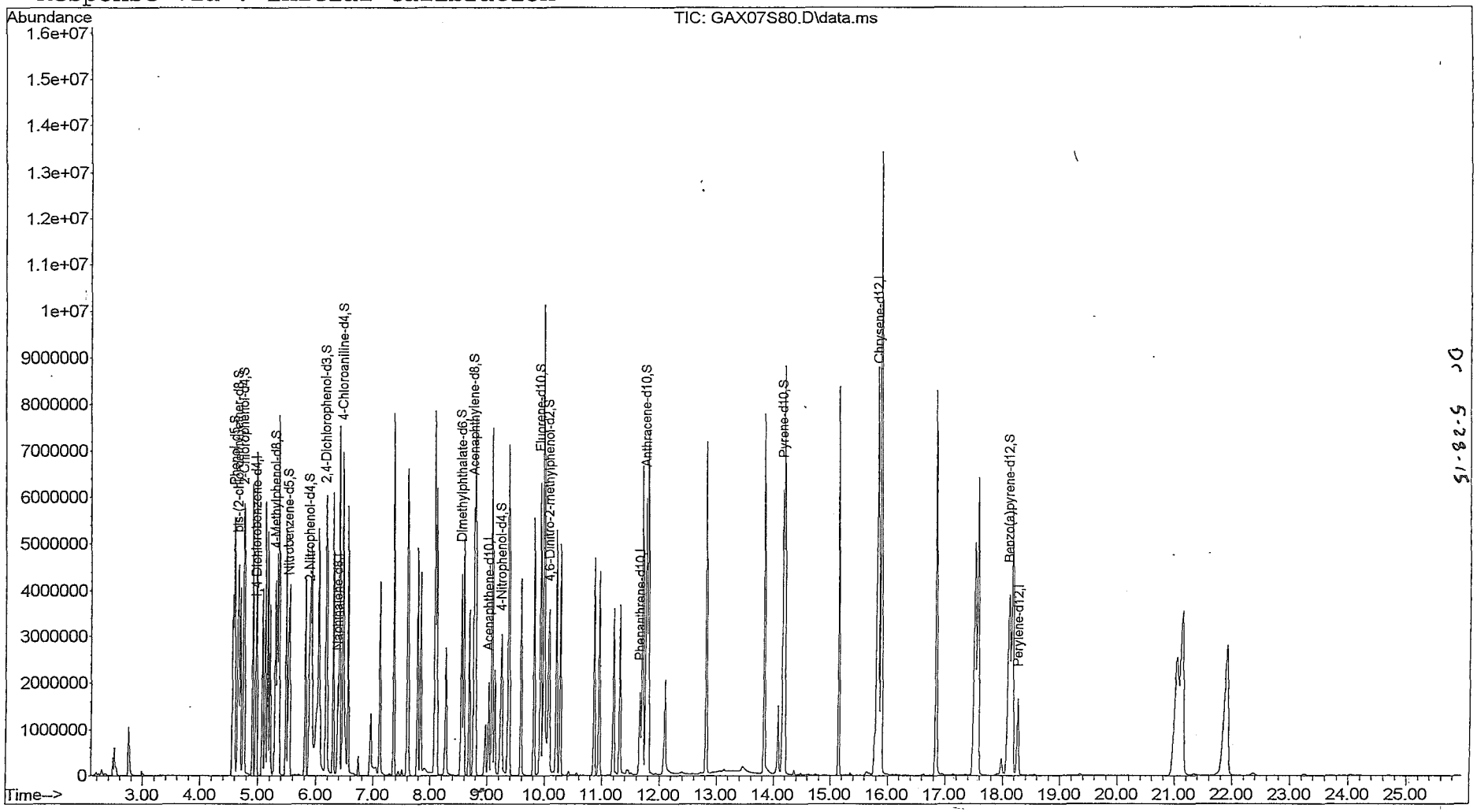
GSOM01D4.M 5975-G GSOM01D4.M SSTD040GX 28170 . X06/19/15

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX07S80.D Vial: 5
Acq On : 05/27/2015 19:02 Operator: DJC
Sample : SSTD080GX 28171 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 28 11:14:58 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX07S80.D Vial: 5
Acq On : 05/27/2015 19:02 Operator: DJC
Sample : SSTD080GX 28171 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 11:14:58 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	336609	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1261945	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	721452	20.00 ug/ml
59) Phenanthrene-d10	11.66	188	1184175	20.00 ug/ml
73) Chrysene-d12	15.84	240	1083704	20.00 ug/ml
81) Perylene-d12	18.26	264	1142790	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.59	99	1776159	74.657ug/ml
6) bis-(2-chloroethyl)ether-d	4.66	67	1099583	75.679ug/mL
7) 2-Chlorophenol-d4	4.75	132	1736970	74.292ug/ml
13) 4-Methylphenol-d8	5.30	113	1408058	76.343ug/mL
17) Nitrobenzene-d5	5.52	128	817817	76.581ug/ml
21) 2-Nitrophenol-d4	5.88	143	913715	76.823ug/mL
25) 2,4-Dichlorophenol-d3	6.17	165	1305530	74.488ug/mL
28) 4-Chloroaniline-d4	6.46	131	979203	48.052ug/mL
42) Dimethylphthalate-d6	8.55	166	3311840	74.431ug/mL
45) Acenaphthylene-d8	8.77	160	4346851	72.921ug/mL
50) 4-Nitrophenol-d4	9.24	143	736166	78.397ug/mL
57) Fluorene-d10	9.93	176	2846305	73.468ug/mL
61) 4,6-Dinitro-2-methylphenol	10.07	200	638522	82.810ug/mL
69) Anthracene-d10	11.77	188	4432038	72.624ug/mL
75) Pyrene-d10	14.16	212	3754163	75.304ug/mL
86) Benzo(a)pyrene-d12	18.11	264	3950537	75.319ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.56	77	958399	65.591ug/ml 94
4) Phenol	4.60	94	1870612	78.477ug/ml 96
5) Bis(2-chloroethyl)ether	4.70	93	1641994	83.681ug/ml 91
8) 2-Chlorophenol	4.76	128	1718478	78.106ug/ml 94
9) 2-Methylphenol	5.16	108	1388921	74.539ug/ml 96
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	1645722	72.114ug/ml 100
11) Acetophenone	5.36	105	1994281	74.640ug/ml 75
12) 4-methylphenol	5.33	108	1482530	76.148ug/ml 95
14) N-Nitroso-di-n-propylamine	5.36	70	878558	75.021ug/ml 95
15) Hexachloroethane	5.48	117	768198	76.004ug/ml 97
18) Nitrobenzene	5.55	77	1484874	75.274ug/ml 97
19) Isophorone	5.82	82	2607032	76.521ug/ml 98
20) 2-Nitrophenol	5.90	139	982117	78.546ug/ml 99
22) 2,4-Dimethylphenol	5.92	107	1548501	79.866ug/ml 96
23) Bis(2-chloroethoxy)methane	6.05	93	1716719	76.037ug/ml 96
24) 2,4-Dichlorophenol	6.19	162	1362951	79.138ug/ml 99
26) Naphthalene	6.41	128	4827959	74.814ug/ml 100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 00579

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX07S80.D Vial: 5
Acq On : 05/27/2015 19:02 Operator: DJC
Sample : SSTD080GX 28171 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 11:14:58 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
27)	4-Chloroaniline	6.47	127	1188008	52.548ug/ml		97
29)	Hexachlorobutadiene	6.56	225	821313	74.101ug/ml		99
30)	Caprolactam	6.96	113	492827	79.925ug/ml	m	74
31)	4-Chloro-3-methylphenol	7.12	107	1376409	82.347ug/ml		95
32)	2-Methylnaphthalene	7.36	142	3130945	76.273ug/ml		97
34)	1,2,4,5-Tetrachlorobenzene	7.62	216	1333950	73.533ug/mL		99
35)	Hexachlorocyclopentadiene	7.60	237	986752	77.133ug/ml		99
36)	2,4,6-Trichlorophenol	7.78	196	1011164	79.716ug/ml		99
37)	2,4,5-Trichlorophenol	7.83	196	1043461	75.840ug/ml		100
38)	1,1'-Biphenyl	8.09	154	3670271	71.469ug/ml		97
39)	2-Chloronaphthalene	8.12	162	2869928	72.182ug/ml		99
40)	2-Nitroaniline	8.27	65	815663	79.609ug/ml		87
41)	Dimethylphthalate	8.59	163	3421612	75.118ug/ml		99
43)	2,6-Dinitrotoluene	8.69	165	807631	77.333ug/ml		88
44)	Acenaphthylene	8.79	152	4909087	73.175ug/ml		99
46)	3-Nitroaniline	8.97	138	389562	47.018ug/ml		94
47)	Acenaphthene	9.09	153	3038712	73.628ug/ml		93
48)	2,4-Dinitrophenol	9.13	184	572566	93.909ug/ml		100
49)	4-Nitrophenol	9.26	109	443860	80.377ug/ml		92
51)	Dibenzofuran	9.38	168	3985419	73.541ug/ml		97
52)	2,4-Dinitrotoluene	9.37	165	1058001	74.479ug/ml		94
53)	2,3,4,6-Tetrachlorophenol	9.59	232	831382	81.398ug/mL		97
54)	Diethylphthalate	9.82	149	3532711	74.977ug/ml		97
55)	4-Chlorophenyl-phenylether	9.99	204	1526592	71.106ug/ml		97
56)	Fluorene	9.98	166	3235389	71.612ug/ml		98
58)	4-Nitroaniline	10.02	138	520336	56.029ug/ml		72
60)	4,6-Dinitro-2-methylphenol	10.09	198	727805	83.603ug/ml		92
62)	N-Nitrosodiphenylamine	10.20	169	2253516	71.156ug/ml		100
63)	4-Bromophenyl-phenyl ether	10.87	248	919376	75.497ug/ml		99
64)	Hexachlorobenzene	10.96	284	985468	73.154ug/ml		88
65)	Atrazine	11.20	200	760746	64.586ug/ml		96
66)	Pentachlorophenol	11.31	266	691078	83.443ug/ml		99
67)	Phenanthrene	11.71	178	4803842	72.854ug/ml		100
68)	Anthracene	11.80	178	4869848	72.264ug/ml		99
70)	Carbazole	12.10	167	1776711	40.005ug/mL		99
71)	Di-n-butylphthalate	12.82	149	6204078	74.980ug/ml		99
72)	Fluoranthene	13.84	202	4892842	71.760ug/ml		97
74)	Pyrene	14.20	202	5044772	74.059ug/ml		97
76)	Butylbenzylphthalate	15.15	149	2825747	79.396ug/ml		92
77)	3,3'-Dichlorobenzidine	15.80	252	1283930	71.868ug/ml		99
78)	Benzo(a)anthracene	15.83	228	4767242	76.788ug/ml		100
79)	Chrysene	15.88	228	4143133	72.768ug/ml		100
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	4003384	75.725ug/ml		97

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 09571

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX07S80.D Vial: 5
Acq On : 05/27/2015 19:02 Operator: DJC
Sample : SSTD080GX 28171 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 11:14:58 2015 Results File: GSOM01D4.RES

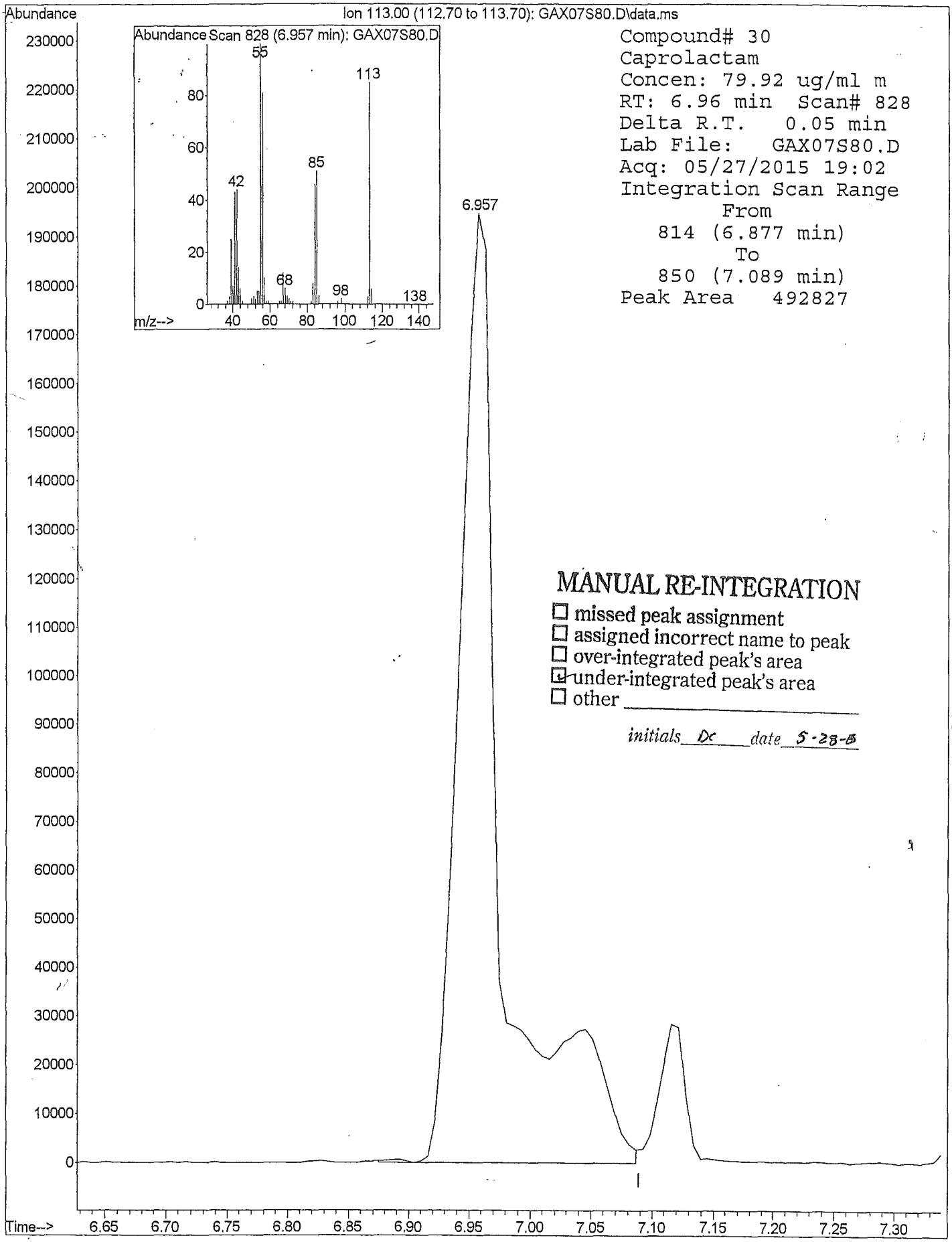
Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.84	149	7380781	75.704ug/ml	100
83) Benzo(b)fluoranthene	17.52	252	5207150	77.994ug/ml	98
84) Benzo(k)fluoranthene	17.57	252	4800315	73.268ug/ml	98
85) Benzo(a)pyrene	18.17	252	4891017	75.464ug/ml	98
87) Indeno(1,2,3-c,d)pyrene	21.04	276	5284602	85.232ug/ml	92
88) Dibenzo(a,h)anthracene	21.14	278	5124292	79.397ug/ml	97
89) Benzo(g,h,i)perylene	21.91	276	5060149	79.431ug/ml	96

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00572

M A N U A L I N T E G R A T I O N FOR Caprolactam



GSOM01D4.M 5975-G GSOM01D4.M SSTD080GX 28171 . X06/19/15

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.: F9M21

Instrument ID: 5975-G Calibration Date: 06/12/2015 Time: 16:39

Lab File ID: GBK02S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020GK Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	0.837	0.745	0.010	-11.0	40.0
Phenol	1.411	1.403	0.800	-0.6	25.0
Bis(2-chloroethyl)ether	1.177	1.163	0.700	-1.2	25.0
2-Chlorophenol	1.301	1.328	0.800	2.1	25.0
2-Methylphenol	1.092	1.046	0.700	-4.3	25.0
2,2'-Oxybis(1-chloropropane)	1.329	1.175	0.010	-11.6	40.0
Acetophenone	1.566	1.598	0.010	2.0	40.0
4-Methylphenol	1.146	1.125	0.600	-1.8	25.0
N-Nitroso-di-n-propylamine	0.687	0.668	0.500	-2.7	25.0
Hexachloroethane	0.595	0.618	0.300	4.0	25.0
Nitrobenzene	0.309	0.301	0.200	-2.6	25.0
Isophorone	0.535	0.529	0.400	-1.2	25.0
2-Nitrophenol	0.197	0.199	0.100	0.8	25.0
2,4-Dimethylphenol	0.307	0.311	0.200	1.3	25.0
Bis(2-chloroethoxy)methane	0.354	0.339	0.300	-4.3	25.0
2,4-Dichlorophenol	0.272	0.284	0.200	4.2	25.0
Naphthalene	1.009	0.992	0.700	-1.7	25.0
4-Chloroaniline	0.334	0.287	0.010	-13.9	40.0
Hexachlorobutadiene	0.173	0.181	0.010	4.5	40.0
Caprolactam	0.098	0.098	0.010	0.1	40.0
4-Chloro-3-methylphenol	0.266	0.274	0.200	3.0	25.0
2-Methylnaphthalene	0.645	0.652	0.400	1.1	25.0
Hexachlorocyclopentadiene	0.352	0.383	0.010	8.8	40.0
2,4,6-Trichlorophenol	0.351	0.362	0.200	3.1	25.0
2,4,5-Trichlorophenol	0.377	0.378	0.200	0.2	25.0
1,1'-Biphenyl	1.393	1.400	0.010	0.5	40.0
2-Chloronaphthalene	1.081	1.105	0.800	2.2	25.0
2-Nitroaniline	0.284	0.276	0.010	-2.6	40.0
Dimethylphthalate	1.247	1.255	0.010	0.7	40.0
2,6-Dinitrotoluene	0.288	0.297	0.200	3.4	25.0
Acenaphthylene	1.828	1.843	0.900	0.8	25.0
3-Nitroaniline	0.206	0.218	0.010	6.0	40.0
Acenaphthene	1.126	1.140	0.900	1.3	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.: F9M21

Instrument ID: 5975-G Calibration Date: 06/12/2015 Time: 16:39

Lab File ID: GBK02S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020GK Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.176	0.185	0.010	4.8	40.0
4-Nitrophenol	0.153	0.147	0.010	-4.1	40.0
Dibenzofuran	1.478	1.501	0.800	1.5	25.0
2,4-Dinitrotoluene	0.388	0.400	0.200	3.0	25.0
Diethylphthalate	1.290	1.305	0.010	1.2	40.0
Fluorene	1.226	1.243	0.900	1.4	25.0
4-Chlorophenyl-phenylether	0.582	0.587	0.400	0.9	25.0
4-Nitroaniline	0.238	0.268	0.010	12.3	40.0
4,6-Dinitro-2-methylphenol	0.149	0.154	0.010	3.3	40.0
N-Nitrosodiphenylamine (1)	0.523	0.523	0.010	0.0	40.0
1,2,4,5-Tetrachlorobenzene	0.495	0.509	0.010	2.8	40.0
4-Bromophenyl-phenylether	0.203	0.203	0.100	-0.4	25.0
Hexachlorobenzene	0.224	0.235	0.100	5.0	25.0
Atrazine	0.191	0.206	0.010	7.9	40.0
Pentachlorophenol	0.141	0.141	0.050	-0.5	25.0
Phenanthrene	1.094	1.095	0.700	0.1	25.0
Anthracene	1.116	1.126	0.700	0.8	25.0
Carbazole	0.675	0.819	0.010	21.3	40.0
Di-n-butylphthalate	1.380	1.448	0.010	4.9	40.0
Fluoranthene	1.128	1.150	0.600	2.0	25.0
Pyrene	1.238	1.241	0.600	0.2	25.0
Butylbenzylphthalate	0.656	0.661	0.010	0.9	40.0
3,3'-Dichlorobenzidine	0.323	0.322	0.010	-0.2	40.0
Benzo(a)anthracene	1.137	1.117	0.800	-1.7	25.0
Chrysene	1.032	1.032	0.700	0.0	25.0
Bis(2-ethylhexyl)phthalate	0.965	1.000	0.010	3.6	40.0
Di-n-octylphthalate	1.688	1.743	0.010	3.2	40.0
Benzo(b)fluoranthene	1.163	1.187	0.700	2.1	25.0
Benzo(k)fluoranthene	1.127	1.133	0.700	0.5	25.0
Benzo(a)pyrene	1.121	1.127	0.700	0.5	25.0
Indeno(1,2,3-cd)pyrene	1.099	1.118	0.500	1.7	25.0
Dibenzo(a,h)anthracene	1.128	1.152	0.400	2.2	25.0
Benzo(g,h,i)perylene	1.113	1.131	0.500	1.6	25.0
2,3,4,6-Tetrachlorophenol	0.284	0.298	0.100	4.8	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.: F9M21

Instrument ID: 5975-G Calibration Date: 06/12/2015 Time: 16:39

Lab File ID: GBK02S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020GK Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

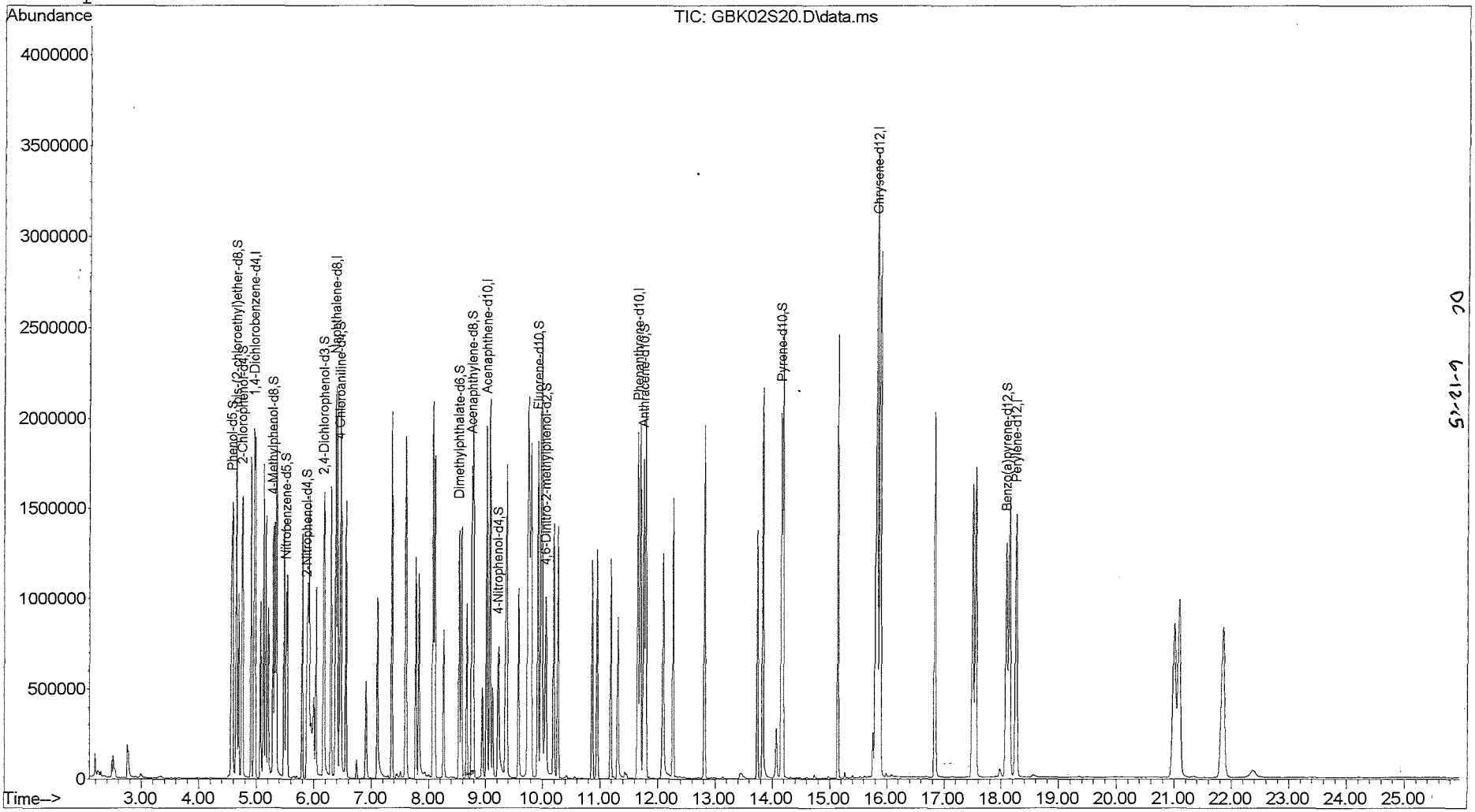
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.395	1.360	0.010	-2.5	25.0
Bis(2-chloroethyl)ether-d8	0.854	0.821	0.010	-3.8	25.0
2-Chlorophenol-d4	1.369	1.386	0.010	1.2	25.0
4-Methylphenol-d8	1.086	1.049	0.010	-3.4	25.0
Nitrobenzene-d5	0.168	0.167	0.010	-0.6	25.0
2-Nitrophenol-d4	0.187	0.189	0.010	1.2	25.0
2,4-Dichlorophenol-d3	0.274	0.278	0.010	1.4	25.0
4-Chloroaniline-d4	0.297	0.243	0.010	-18.2	40.0
Dimethylphthalate-d6	1.216	1.255	0.010	3.2	40.0
Acenaphthylene-d8	1.623	1.654	0.010	1.9	25.0
4-Nitrophenol-d4	0.259	0.253	0.010	-2.2	40.0
Fluorene-d10	1.056	1.086	0.010	2.8	25.0
4,6-Dinitro-2-methylphenol-d2	0.131	0.135	0.010	2.7	40.0
Anthracene-d10	1.012	1.029	0.010	1.7	25.0
Pyrene-d10	0.909	0.924	0.010	1.7	25.0
Benzo(a)pyrene-d12	0.907	0.932	0.010	2.8	25.0

Quantitation Report

Data File : C:\msdchem\1\data\20...15\12JUN15\GBK02S20.D Vial: 1
Acq On : 06/12/2015 16:39 Operator: DJC
Sample : SSTD020GK 28296 DFTPPGK Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 12 17:05:39 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri Jun 12 17:08:06 2015
Response via : Initial Calibration



GBK02S20.D GSOM01D4.M Fri Jun 12 17:09:29 2015 Page 4

Quantitation Report

Data File : C:\msdchem\1\data\20...15\12JUN15\GBK02S20.D Vial: 1
Acq On : 06/12/2015 16:39 Operator: DJC
Sample : SSTD020GK 28296 DFTPPGK Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 12 17:05:39 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri Jun 12 17:08:06 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	331787	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1253617	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	697317	20.00 ug/ml
59) Phenanthrene-d10	11.66	188	1142317	20.00 ug/ml
73) Chrysene-d12	15.84	240	1108122	20.00 ug/ml
81) Perylene-d12	18.26	264	1089928	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.58	99	451216	19.502ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	272466	19.233ug/mL
7) 2-Chlorophenol-d4	4.75	132	459900	20.245ug/ml
13) 4-Methylphenol-d8	5.29	113	348026	19.320ug/mL
17) Nitrobenzene-d5	5.52	128	208999	19.871ug/ml
21) 2-Nitrophenol-d4	5.88	143	237175	20.234ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	348283	20.283ug/mL
28) 4-Chloroaniline-d4	6.45	131	304709	16.359ug/mL
42) Dimethylphthalate-d6	8.54	166	875470	20.644ug/mL
45) Acenaphthylene-d8	8.76	160	1153674	20.384ug/mL
50) 4-Nitrophenol-d4	9.22	143	176696	19.566ug/mL
57) Fluorene-d10	9.92	176	757401	20.562ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	154067	20.533ug/mL
69) Anthracene-d10	11.76	188	1175717	20.347ug/mL
75) Pyrene-d10	14.16	212	1024411	20.334ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1016020	20.551ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.56	77	247207	17.806ug/ml 92
4) Phenol	4.59	94	465358	19.882ug/ml 97
5) Bis(2-chloroethyl)ether	4.69	93	385874	19.769ug/ml 86
8) 2-Chlorophenol	4.76	128	440754	20.420ug/ml 93
9) 2-Methylphenol	5.16	108	346915	19.150ug/ml 98
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	389734	17.675ug/ml 100
11) Acetophenone	5.35	105	530292	20.409ug/ml 97
12) 4-methylphenol	5.32	108	373157	19.634ug/ml 94
14) N-Nitroso-di-n-propylamine	5.34	70	221743	19.452ug/ml 95
15) Hexachloroethane	5.48	117	205095	20.794ug/ml 97
18) Nitrobenzene	5.53	77	377069	19.472ug/ml 95
19) Isophorone	5.80	82	662987	19.761ug/ml 97
20) 2-Nitrophenol	5.89	139	249381	20.150ug/ml 99
22) 2,4-Dimethylphenol	5.92	107	390271	20.269ug/ml 89
23) Bis(2-chloroethoxy)methane	6.04	93	424836	19.131ug/ml 99
24) 2,4-Dichlorophenol	6.18	162	355774	20.840ug/ml 98
26) Naphthalene	6.40	128	1243595	19.654ug/ml 100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00578

Quantitation Report

Data File : C:\msdchem\1\data\20...15\12JUN15\GBK02S20.D Vial: 1
Acq On : 06/12/2015 16:39 Operator: DJC
Sample : SSTD020GK 28296 DFTPPGK Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 12 17:05:39 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri Jun 12 17:08:06 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.46	127	359997	17.210ug/ml	96
29)	Hexachlorobutadiene	6.56	225	226725	20.900ug/ml	99
30)	Caprolactam	6.91	113	122570	20.014ug/ml	70
31)	4-Chloro-3-methylphenol	7.10	107	344018	20.598ug/ml	95
32)	2-Methylnaphthalene	7.36	142	816813	20.219ug/ml	97
34)	1,2,4,5-Tetrachlorobenzene	7.61	216	354797	20.567ug/mL	98
35)	Hexachlorocyclopentadiene	7.60	237	267205	21.766ug/ml	99
36)	2,4,6-Trichlorophenol	7.78	196	252560	20.614ug/ml	99
37)	2,4,5-Trichlorophenol	7.83	196	263713	20.039ug/ml	99
38)	1,1'-Biphenyl	8.08	154	976509	20.102ug/ml	96
39)	2-Chloronaphthalene	8.11	162	770462	20.448ug/ml	97
40)	2-Nitroaniline	8.26	65	192742	19.487ug/ml	85
41)	Dimethylphthalate	8.58	163	875447	20.131ug/ml	99
43)	2,6-Dinitrotoluene	8.67	165	207377	20.682ug/ml	88
44)	Acenaphthylene	8.79	152	1284854	20.159ug/ml	99
46)	3-Nitroaniline	8.95	138	152210	21.191ug/ml	93
47)	Acenaphthene	9.08	153	795206	20.257ug/ml	93
48)	2,4-Dinitrophenol	9.13	184	128943	20.969ug/ml	100
49)	4-Nitrophenol	9.23	109	102526	19.186ug/ml	91
51)	Dibenzofuran	9.37	168	1046602	20.309ug/ml	98
52)	2,4-Dinitrotoluene	9.35	165	279050	20.608ug/ml	95
53)	2,3,4,6-Tetrachlorophenol	9.59	232	207554	20.951ug/mL	99
54)	Diethylphthalate	9.80	149	910223	20.241ug/ml	97
55)	4-Chlorophenyl-phenylether	9.99	204	409501	20.183ug/ml	98
56)	Fluorene	9.97	166	867113	20.282ug/ml	98
58)	4-Nitroaniline	10.00	138	186555	22.466ug/ml	58
60)	4,6-Dinitro-2-methylphenol	10.06	198	175463	20.661ug/ml	91
62)	N-Nitrosodiphenylamine	10.20	169	597497	20.000ug/ml	99
63)	4-Bromophenyl-phenyl ether	10.86	248	231445	19.926ug/ml	99
64)	Hexachlorobenzene	10.95	284	268339	21.009ug/ml	86
65)	Atrazine	11.19	200	235730	21.578ug/ml	97
66)	Pentachlorophenol	11.31	266	160678	19.898ug/ml	99
67)	Phenanthrene	11.70	178	1251128	20.027ug/ml	99
68)	Anthracene	11.79	178	1285798	20.169ug/ml	100
70)	Carbazole	12.10	167	935400	24.259ug/mL	98
71)	Di-n-butylphthalate	12.82	149	1654344	20.990ug/ml	99
72)	Fluoranthene	13.83	202	1313519	20.390ug/ml	95
74)	Pyrene	14.19	202	1375713	20.049ug/ml	95
76)	Butylbenzylphthalate	15.14	149	732944	20.170ug/ml	90
77)	3,3'-Dichlorobenzidine	15.80	252	357329	19.967ug/ml	99
78)	Benzo(a)anthracene	15.82	228	1238320	19.665ug/ml	100
79)	Chrysene	15.87	228	1143562	20.004ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	1108504	20.727ug/ml	97

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\12JUN15\GBK02S20.D Vial: 1
Acq On : 06/12/2015 16:39 Operator: DJC
Sample : SSTD020GK 28296 DFTPPGK Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 12 17:05:39 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri Jun 12 17:08:06 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82)	Di-n-octylphthalate	16.84	149	1899377	20.648ug/ml	100
83)	Benzo(b)fluoranthene	17.50	252	1293799	20.421ug/ml	98
84)	Benzo(k)fluoranthene	17.56	252	1234676	20.097ug/ml	98
85)	Benzo(a)pyrene	18.14	252	1228120	20.096ug/ml	97
87)	Indeno(1,2,3-c,d)pyrene	21.00	276	1218398	20.338ug/ml	91
88)	Dibenzo(a,h)anthracene	21.09	278	1255714	20.431ug/ml	96
89)	Benzo(g,h,i)perylene	21.86	276	1232336	20.311ug/ml	95

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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.: F9M21

Instrument ID: 5975-G Calibration Date: 06/13/2015 Time: 02:54

Lab File ID: GBK21S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020K1 Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	0.837	0.720	0.010	-14.0	50.0
Phenol	1.411	1.398	0.010	-0.9	50.0
Bis(2-chloroethyl)ether	1.177	1.078	0.010	-8.3	50.0
2-Chlorophenol	1.301	1.322	0.010	1.6	50.0
2-Methylphenol	1.092	1.050	0.010	-3.8	50.0
2,2'-Oxybis(1-chloropropane)	1.329	1.118	0.010	-15.9	50.0
Acetophenone	1.566	1.589	0.010	1.4	50.0
4-Methylphenol	1.146	1.156	0.010	0.9	50.0
N-Nitroso-di-n-propylamine	0.687	0.643	0.010	-6.4	50.0
Hexachloroethane	0.595	0.591	0.010	-0.6	50.0
Nitrobenzene	0.309	0.305	0.010	-1.4	50.0
Isophorone	0.535	0.542	0.010	1.2	50.0
2-Nitrophenol	0.197	0.198	0.010	0.5	50.0
2,4-Dimethylphenol	0.307	0.323	0.010	5.0	50.0
Bis(2-chloroethoxy)methane	0.354	0.341	0.010	-3.8	50.0
2,4-Dichlorophenol	0.272	0.284	0.010	4.1	50.0
Naphthalene	1.009	1.012	0.010	0.3	50.0
4-Chloroaniline	0.334	0.373	0.010	11.7	50.0
Hexachlorobutadiene	0.173	0.183	0.010	5.5	50.0
Caprolactam	0.098	0.104	0.010	6.0	50.0
4-Chloro-3-methylphenol	0.266	0.283	0.010	6.2	50.0
2-Methylnaphthalene	0.645	0.666	0.010	3.4	50.0
Hexachlorocyclopentadiene	0.352	0.210	0.010	-40.5	50.0
2,4,6-Trichlorophenol	0.351	0.363	0.010	3.4	50.0
2,4,5-Trichlorophenol	0.377	0.380	0.010	0.6	50.0
1,1'-Biphenyl	1.393	1.396	0.010	0.2	50.0
2-Chloronaphthalene	1.081	1.090	0.010	0.9	50.0
2-Nitroaniline	0.284	0.277	0.010	-2.3	50.0
Dimethylphthalate	1.247	1.253	0.010	0.5	50.0
2,6-Dinitrotoluene	0.288	0.301	0.010	4.5	50.0
Acenaphthylene	1.828	1.820	0.010	-0.4	50.0
3-Nitroaniline	0.206	0.289	0.010	40.4	50.0
Acenaphthene	1.126	1.129	0.010	0.3	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.: F9M21

Instrument ID: 5975-G Calibration Date: 06/13/2015 Time: 02:54

Lab File ID: GBK21S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020K1 Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.176	0.140	0.010	-20.7	50.0
4-Nitrophenol	0.153	0.156	0.010	1.5	50.0
Dibenzofuran	1.478	1.505	0.010	1.8	50.0
2,4-Dinitrotoluene	0.388	0.407	0.010	4.7	50.0
Diethylphthalate	1.290	1.310	0.010	1.5	50.0
Fluorene	1.226	1.254	0.010	2.3	50.0
4-Chlorophenyl-phenylether	0.582	0.586	0.010	0.7	50.0
4-Nitroaniline	0.238	0.303	0.010	27.3	50.0
4,6-Dinitro-2-methylphenol	0.149	0.129	0.010	-13.5	50.0
N-Nitrosodiphenylamine (1)	0.523	0.535	0.010	2.2	50.0
1,2,4,5-Tetrachlorobenzene	0.495	0.501	0.010	1.2	50.0
4-Bromophenyl-phenylether	0.203	0.201	0.010	-1.2	50.0
Hexachlorobenzene	0.224	0.231	0.010	3.4	50.0
Atrazine	0.191	0.205	0.010	7.2	50.0
Pentachlorophenol	0.141	0.151	0.010	7.1	50.0
Phenanthrene	1.094	1.100	0.010	0.6	50.0
Anthracene	1.116	1.124	0.010	0.7	50.0
Carbazole	0.675	0.924	0.010	36.8	50.0
Di-n-butylphthalate	1.380	1.418	0.010	2.7	50.0
Fluoranthene	1.128	1.175	0.010	4.2	50.0
Pyrene	1.238	1.216	0.010	-1.8	50.0
Butylbenzylphthalate	0.656	0.657	0.010	0.1	50.0
3,3'-Dichlorobenzidine	0.323	0.389	0.010	20.4	50.0
Benzo(a)anthracene	1.137	1.128	0.010	-0.8	50.0
Chrysene	1.032	1.031	0.010	-0.1	50.0
Bis(2-ethylhexyl)phthalate	0.965	0.969	0.010	0.4	50.0
Di-n-octylphthalate	1.688	1.721	0.010	2.0	50.0
Benzo(b)fluoranthene	1.163	1.155	0.010	-0.6	50.0
Benzo(k)fluoranthene	1.127	1.140	0.010	1.2	50.0
Benzo(a)pyrene	1.121	1.117	0.010	-0.4	50.0
Indeno(1,2,3-cd)pyrene	1.099	0.995	0.010	-9.5	50.0
Dibenzo(a,h)anthracene	1.128	1.051	0.010	-6.8	50.0
Benzo(g,h,i)perylene	1.113	0.951	0.010	-14.6	50.0
2,3,4,6-Tetrachlorophenol	0.284	0.305	0.010	7.4	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.: F9M21

Instrument ID: 5975-G Calibration Date: 06/13/2015 Time: 02:54

Lab File ID: GBK21S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020K1 Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

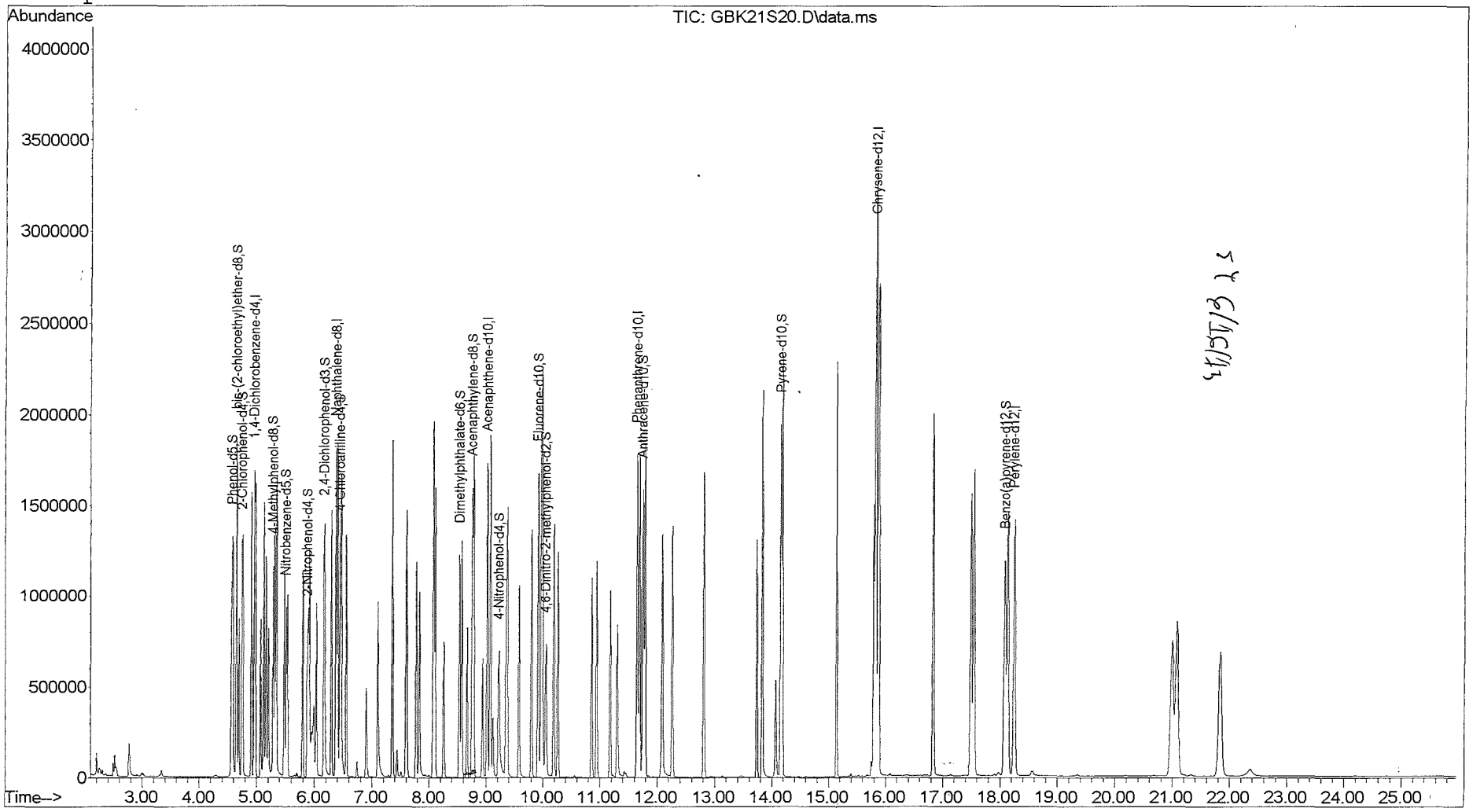
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.395	1.358	0.010	-2.6	50.0
Bis(2-chloroethyl)ether-d8	0.854	0.814	0.010	-4.7	50.0
2-Chlorophenol-d4	1.369	1.372	0.010	0.2	50.0
4-Methylphenol-d8	1.086	1.064	0.010	-2.0	50.0
Nitrobenzene-d5	0.168	0.169	0.010	0.6	50.0
2-Nitrophenol-d4	0.187	0.190	0.010	1.8	50.0
2,4-Dichlorophenol-d3	0.274	0.282	0.010	3.0	50.0
4-Chloroaniline-d4	0.297	0.325	0.010	9.3	50.0
Dimethylphthalate-d6	1.216	1.257	0.010	3.4	50.0
Acenaphthylene-d8	1.623	1.656	0.010	2.0	50.0
4-Nitrophenol-d4	0.259	0.263	0.010	1.7	50.0
Fluorene-d10	1.056	1.093	0.010	3.5	50.0
4,6-Dinitro-2-methylphenol-d2	0.131	0.115	0.010	-12.6	50.0
Anthracene-d10	1.012	1.043	0.010	3.1	50.0
Pyrene-d10	0.909	0.902	0.010	-0.8	50.0
Benzo(a)pyrene-d12	0.907	0.920	0.010	1.4	50.0

Quantitation Report

Data File : C:\msdchem\1\data\20...15\12JUN15\GBK21S20.D Vial: 1
Acq On : 06/13/2015 02:54 Operator: DJC
Sample : SSTD020K1 28296 DFTPPK1 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 13 03:20:52 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 15 10:39:25 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...15\12JUN15\GBK21S20.D Vial: 1
Acq On : 06/13/2015 02:54 Operator: DJC
Sample : SSTD020K1 28296 DFTPPK1 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 13 03:20:52 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 15 10:39:25 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	291811	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1085171	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	626489	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1048650	20.00 ug/ml
73) Chrysene-d12	15.83	240	1058348	20.00 ug/ml
81) Perylene-d12	18.26	264	1050044	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	396361	19.478ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	237510	19.062ug/mL
7) 2-Chlorophenol-d4	4.75	132	400252	20.033ug/ml
13) 4-Methylphenol-d8	5.29	113	310509	19.599ug/mL
17) Nitrobenzene-d5	5.51	128	183106	20.111ug/ml
21) 2-Nitrophenol-d4	5.87	143	206599	20.362ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	306225	20.602ug/mL
28) 4-Chloroaniline-d4	6.44	131	352399	21.856ug/mL
42) Dimethylphthalate-d6	8.53	166	787805	20.677ug/mL
45) Acenaphthylene-d8	8.76	160	1037317	20.400ug/mL
50) 4-Nitrophenol-d4	9.22	143	165019	20.339ug/mL
57) Fluorene-d10	9.92	176	684745	20.691ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	120408	17.480ug/mL
69) Anthracene-d10	11.75	188	1094187	20.627ug/mL
75) Pyrene-d10	14.16	212	954313	19.834ug/mL
86) Benzo(a)pyrene-d12	18.09	264	966144	20.284ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.56	77	210030	17.200ug/ml 95
4) Phenol	4.59	94	407877	19.814ug/ml 97
5) Bis(2-chloroethyl)ether	4.69	93	314713	18.332ug/ml 90
8) 2-Chlorophenol	4.76	128	385750	20.320ug/ml 92
9) 2-Methylphenol	5.16	108	306415	19.231ug/ml 99
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	326286	16.824ug/ml 100
11) Acetophenone	5.35	105	463646	20.289ug/ml 97
12) 4-methylphenol	5.31	108	337470	20.189ug/ml 96
14) N-Nitroso-di-n-propylamine	5.33	70	187641	18.716ug/ml 95
15) Hexachloroethane	5.47	117	172398	19.874ug/ml 96
18) Nitrobenzene	5.53	77	330586	19.722ug/ml 96
19) Isophorone	5.79	82	587920	20.244ug/ml 98
20) 2-Nitrophenol	5.89	139	215314	20.098ug/ml 98
22) 2,4-Dimethylphenol	5.91	107	349978	20.998ug/ml 90
23) Bis(2-chloroethoxy)methane	6.03	93	369802	19.238ug/ml 99
24) 2,4-Dichlorophenol	6.17	162	307646	20.818ug/ml 97
26) Naphthalene	6.40	128	1098665	20.058ug/ml 99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\12JUN15\GBK21S20.D Vial: 1
Acq On : 06/13/2015 02:54 Operator: DJC
Sample : SSTD020K1 28296 DFTPPK1 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 13 03:20:52 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 15 10:39:25 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.45	127	404438	22.336ug/ml	95
29)	Hexachlorobutadiene	6.55	225	198089	21.095ug/ml	99
30)	Caprolactam	6.90	113	112377	21.198ug/ml	67
31)	4-Chloro-3-methylphenol	7.10	107	307184	21.247ug/ml	95
32)	2-Methylnaphthalene	7.36	142	723180	20.680ug/ml	96
34)	1,2,4,5-Tetrachlorobenzene	7.60	216	313681	20.240ug/mL	99
35)	Hexachlorocyclopentadiene	7.59	237	131349	11.909ug/ml	99
36)	2,4,6-Trichlorophenol	7.77	196	227571	20.675ug/ml	98
37)	2,4,5-Trichlorophenol	7.83	196	237968	20.127ug/ml	99
38)	1,1'-Biphenyl	8.07	154	874402	20.035ug/ml	96
39)	2-Chloronaphthalene	8.10	162	682977	20.176ug/ml	98
40)	2-Nitroaniline	8.26	65	173556	19.531ug/ml	82
41)	Dimethylphthalate	8.57	163	785172	20.096ug/ml	99
43)	2,6-Dinitrotoluene	8.67	165	188319	20.905ug/ml	88
44)	Acenaphthylene	8.78	152	1140487	19.917ug/ml	99
46)	3-Nitroaniline	8.94	138	181195	28.078ug/ml	93
47)	Acenaphthene	9.07	153	707326	20.056ug/ml	93
48)	2,4-Dinitrophenol	9.12	184	87659	15.867ug/ml	100
49)	4-Nitrophenol	9.23	109	97465	20.301ug/ml	91
51)	Dibenzofuran	9.37	168	942687	20.361ug/ml	98
52)	2,4-Dinitrotoluene	9.35	165	254791	20.944ug/ml	98
53)	2,3,4,6-Tetrachlorophenol	9.58	232	191228	21.485ug/mL	97
54)	Diethylphthalate	9.80	149	820388	20.306ug/ml	97
55)	4-Chlorophenyl-phenylether	9.99	204	367282	20.148ug/ml	97
56)	Fluorene	9.97	166	785514	20.451ug/ml	97
58)	4-Nitroaniline	10.00	138	189895	25.454ug/ml	76
60)	4,6-Dinitro-2-methylphenol	10.06	198	134811	17.292ug/ml	91
62)	N-Nitrosodiphenylamine	10.19	169	560533	20.438ug/ml	100
63)	4-Bromophenyl-phenyl ether	10.86	248	210701	19.761ug/ml	99
64)	Hexachlorobenzene	10.94	284	242521	20.684ug/ml	87
65)	Atrazine	11.19	200	215088	21.447ug/ml	97
66)	Pentachlorophenol	11.30	266	158753	21.415ug/ml	99
67)	Phenanthrene	11.70	178	1153298	20.110ug/ml	100
68)	Anthracene	11.79	178	1178411	20.136ug/ml	99
70)	Carbazole	12.09	167	968807	27.370ug/mL	99
71)	Di-n-butylphthalate	12.81	149	1486674	20.547ug/ml	99
72)	Fluoranthene	13.83	202	1231930	20.832ug/ml	95
74)	Pyrene	14.18	202	1287308	19.643ug/ml	95
76)	Butylbenzylphthalate	15.14	149	695100	20.029ug/ml	89
77)	3,3'-Dichlorobenzidine	15.79	252	411520	24.076ug/ml	98
78)	Benzo(a)anthracene	15.82	228	1193563	19.845ug/ml	99
79)	Chrysene	15.87	228	1091087	19.984ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	1026021	20.087ug/ml	98

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00596

Quantitation Report

Data File : C:\msdchem\1\data\20...15\12JUN15\GBK21S20.D Vial: 1
Acq On : 06/13/2015 02:54 Operator: DJC
Sample : SSTD020K1 28296 DFTPPK1 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 13 03:20:52 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 15 10:39:25 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.84	149	1807218	20.393ug/ml	100
83) Benzo(b)fluoranthene	17.50	252	1213176	19.876ug/ml	98
84) Benzo(k)fluoranthene	17.55	252	1197452	20.232ug/ml	97
85) Benzo(a)pyrene	18.14	252	1173231	19.927ug/ml	97
87) Indeno(1,2,3-c,d)pyrene	21.00	276	1044650	18.100ug/ml	91
88) Dibenzo(a,h)anthracene	21.08	278	1103320	18.633ug/ml	96
89) Benzo(g,h,i)perylene	21.84	276	998226	17.078ug/ml	95

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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.: F9M21

Instrument ID: 5975-G Calibration Date: 06/15/2015 Time: 15:28

Lab File ID: GBM01S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020GM Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	0.837	0.714	0.010	-14.7	40.0
Phenol	1.411	1.388	0.800	-1.7	25.0
Bis(2-chloroethyl)ether	1.177	1.083	0.700	-7.9	25.0
2-Chlorophenol	1.301	1.343	0.800	3.2	25.0
2-Methylphenol	1.092	1.081	0.700	-1.0	25.0
2,2'-Oxybis(1-chloropropane)	1.329	1.079	0.010	-18.8	40.0
Acetophenone	1.566	1.546	0.010	-1.3	40.0
4-Methylphenol	1.146	1.127	0.600	-1.6	25.0
N-Nitroso-di-n-propylamine	0.687	0.661	0.500	-3.8	25.0
Hexachloroethane	0.595	0.605	0.300	1.7	25.0
Nitrobenzene	0.309	0.300	0.200	-2.9	25.0
Isophorone	0.535	0.521	0.400	-2.7	25.0
2-Nitrophenol	0.197	0.198	0.100	0.4	25.0
2,4-Dimethylphenol	0.307	0.312	0.200	1.5	25.0
Bis(2-chloroethoxy)methane	0.354	0.338	0.300	-4.5	25.0
2,4-Dichlorophenol	0.272	0.288	0.200	5.6	25.0
Naphthalene	1.009	0.997	0.700	-1.2	25.0
4-Chloroaniline	0.334	0.327	0.010	-1.9	40.0
Hexachlorobutadiene	0.173	0.182	0.010	5.0	40.0
Caprolactam	0.098	0.097	0.010	-0.5	40.0
4-Chloro-3-methylphenol	0.266	0.273	0.200	2.4	25.0
2-Methylnaphthalene	0.645	0.658	0.400	2.0	25.0
Hexachlorocyclopentadiene	0.352	0.406	0.010	15.3	40.0
2,4,6-Trichlorophenol	0.351	0.363	0.200	3.3	25.0
2,4,5-Trichlorophenol	0.377	0.378	0.200	0.3	25.0
1,1'-Biphenyl	1.393	1.475	0.010	5.8	40.0
2-Chloronaphthalene	1.081	1.104	0.800	2.2	25.0
2-Nitroaniline	0.284	0.266	0.010	-6.2	40.0
Dimethylphthalate	1.247	1.223	0.010	-1.9	40.0
2,6-Dinitrotoluene	0.288	0.296	0.200	3.0	25.0
Acenaphthylene	1.828	1.832	0.900	0.2	25.0
3-Nitroaniline	0.206	0.234	0.010	13.4	40.0
Acenaphthene	1.126	1.136	0.900	0.9	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.: F9M21

Instrument ID: 5975-G Calibration Date: 06/15/2015 Time: 15:28

Lab File ID: GBM01S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020GM Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.176	0.190	0.010	7.5	40.0
4-Nitrophenol	0.153	0.149	0.010	-2.8	40.0
Dibenzofuran	1.478	1.506	0.800	1.9	25.0
2,4-Dinitrotoluene	0.388	0.394	0.200	1.5	25.0
Diethylphthalate	1.290	1.411	0.010	9.4	40.0
Fluorene	1.226	1.241	0.900	1.2	25.0
4-Chlorophenyl-phenylether	0.582	0.581	0.400	-0.1	25.0
4-Nitroaniline	0.238	0.242	0.010	1.8	40.0
4,6-Dinitro-2-methylphenol	0.149	0.158	0.010	6.0	40.0
N-Nitrosodiphenylamine (1)	0.523	0.539	0.010	3.0	40.0
1,2,4,5-Tetrachlorobenzene	0.495	0.512	0.010	3.5	40.0
4-Bromophenyl-phenylether	0.203	0.208	0.100	2.3	25.0
Hexachlorobenzene	0.224	0.235	0.100	5.0	25.0
Atrazine	0.191	0.197	0.010	3.2	40.0
Pentachlorophenol	0.141	0.152	0.050	7.4	25.0
Phenanthrene	1.094	1.108	0.700	1.3	25.0
Anthracene	1.116	1.144	0.700	2.5	25.0
Carbazole	0.675	0.895	0.010	32.6	40.0
Di-n-butylphthalate	1.380	1.424	0.010	3.2	40.0
Fluoranthene	1.128	1.145	0.600	1.5	25.0
Pyrene	1.238	1.259	0.600	1.7	25.0
Butylbenzylphthalate	0.656	0.658	0.010	0.4	40.0
3,3'-Dichlorobenzidine	0.323	0.372	0.010	15.2	40.0
Benzo(a)anthracene	1.137	1.110	0.800	-2.3	25.0
Chrysene	1.032	1.032	0.700	0.0	25.0
Bis(2-ethylhexyl)phthalate	0.965	1.011	0.010	4.7	40.0
Di-n-octylphthalate	1.688	1.739	0.010	3.0	40.0
Benzo(b)fluoranthene	1.163	1.153	0.700	-0.8	25.0
Benzo(k)fluoranthene	1.127	1.145	0.700	1.6	25.0
Benzo(a)pyrene	1.121	1.102	0.700	-1.7	25.0
Indeno(1,2,3-cd)pyrene	1.099	1.096	0.500	-0.3	25.0
Dibenzo(a,h)anthracene	1.128	1.132	0.400	0.4	25.0
Benzo(g,h,i)perylene	1.113	1.102	0.500	-1.0	25.0
2,3,4,6-Tetrachlorophenol	0.284	0.302	0.100	6.1	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.: F9M21

Instrument ID: 5975-G Calibration Date: 06/15/2015 Time: 15:28

Lab File ID: GBM01S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020GM Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

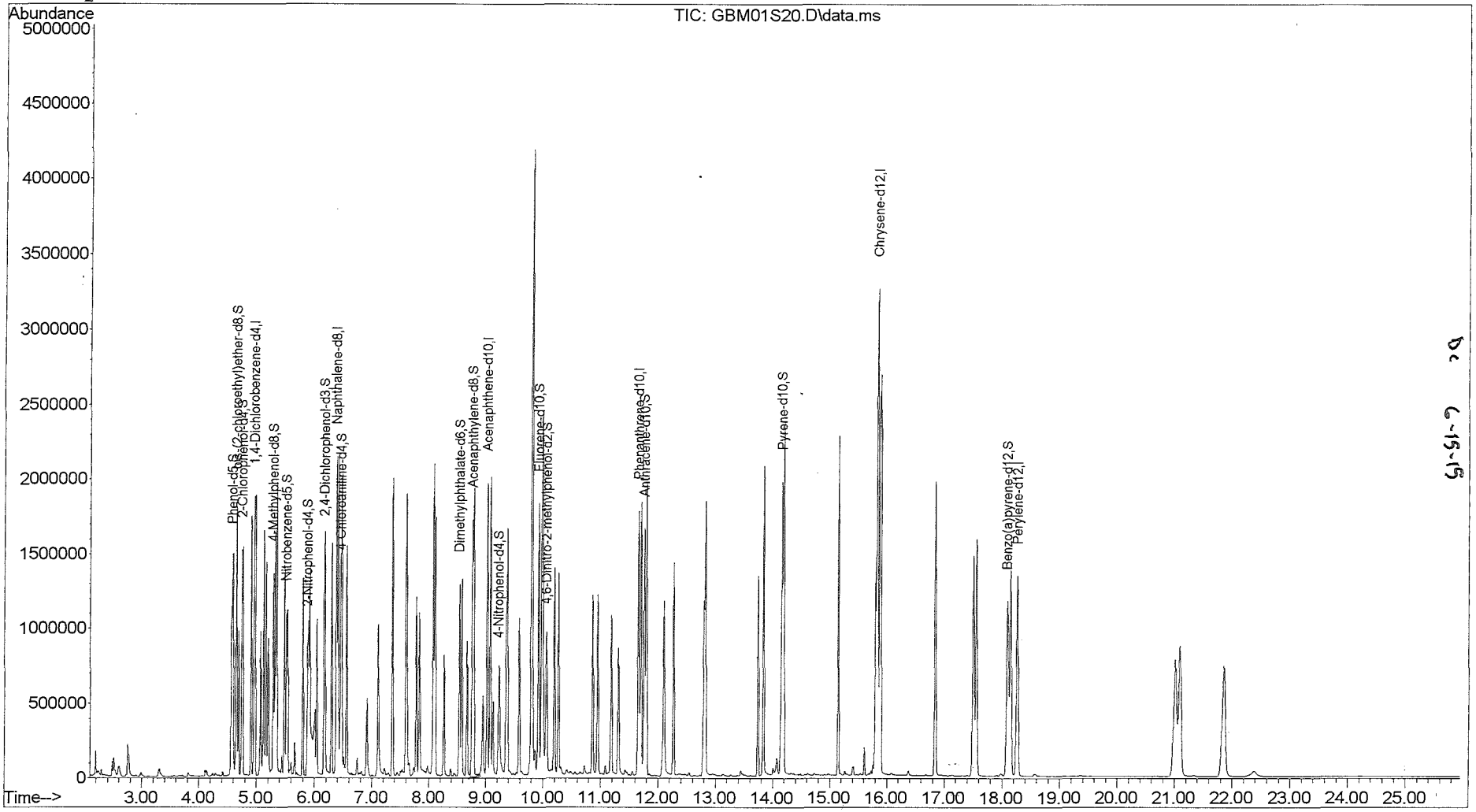
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.395	1.380	0.010	-1.0	25.0
Bis(2-chloroethyl)ether-d8	0.854	0.803	0.010	-5.9	25.0
2-Chlorophenol-d4	1.369	1.366	0.010	-0.2	25.0
4-Methylphenol-d8	1.086	1.066	0.010	-1.8	25.0
Nitrobenzene-d5	0.168	0.168	0.010	0.2	25.0
2-Nitrophenol-d4	0.187	0.190	0.010	1.8	25.0
2,4-Dichlorophenol-d3	0.274	0.283	0.010	3.3	25.0
4-Chloroaniline-d4	0.297	0.274	0.010	-7.6	40.0
Dimethylphthalate-d6	1.216	1.237	0.010	1.7	40.0
Acenaphthylene-d8	1.623	1.657	0.010	2.0	25.0
4-Nitrophenol-d4	0.259	0.255	0.010	-1.7	40.0
Fluorene-d10	1.056	1.082	0.010	2.4	25.0
4,6-Dinitro-2-methylphenol-d2	0.131	0.141	0.010	7.0	40.0
Anthracene-d10	1.012	1.044	0.010	3.2	25.0
Pyrene-d10	0.909	0.943	0.010	3.7	25.0
Benzo(a)pyrene-d12	0.907	0.924	0.010	1.9	25.0

Quantitation Report

Data File : C:\msdchem\1\data\20...15\15JUN15\GBM01S20.D Vial: 1
Acq On : 06/15/2015 15:28 Operator: DJC
Sample : SSTD020GM 28296 DFTPPGM Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 15 15:54:57 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 15 16:53:44 2015
Response via : Initial Calibration



GBM01S20.D GSOM01D4.M Mon Jun 15 16:54:54 2015 Page 4

Quantitation Report

Data File : C:\msdchem\1\data\20...15\15JUN15\GBM01S20.D Vial: 1
Acq On : 06/15/2015 15:28 Operator: DJC
Sample : SSTD020GM 28296 DFTPPGM Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 15 15:54:57 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 15 16:53:44 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	328161	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1215372	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	672865	20.00 ug/ml
59) Phenanthrene-d10	11.66	188	1075058	20.00 ug/ml
73) Chrysene-d12	15.84	240	1008439	20.00 ug/ml
81) Perylene-d12	18.26	264	979010	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.58	99	452967	19.794ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	263670	18.818ug/mL
7) 2-Chlorophenol-d4	4.75	132	448298	19.953ug/ml
13) 4-Methylphenol-d8	5.29	113	349758	19.631ug/mL
17) Nitrobenzene-d5	5.52	128	204348	20.040ug/ml
21) 2-Nitrophenol-d4	5.88	143	231461	20.368ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	343954	20.661ug/mL
28) 4-Chloroaniline-d4	6.45	131	333578	18.472ug/mL
42) Dimethylphthalate-d6	8.54	166	832634	20.347ug/mL
45) Acenaphthylene-d8	8.76	160	1114617	20.410ug/mL
50) 4-Nitrophenol-d4	9.22	143	171326	19.661ug/mL
57) Fluorene-d10	9.92	176	728229	20.489ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	151126	21.401ug/mL
69) Anthracene-d10	11.76	188	1121905	20.630ug/mL
75) Pyrene-d10	14.16	212	950997	20.743ug/mL
86) Benzo(a)pyrene-d12	18.09	264	904908	20.377ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.56	77	234204	17.056ug/ml 95
4) Phenol	4.59	94	455344	19.669ug/ml 98
5) Bis(2-chloroethyl)ether	4.69	93	355508	18.415ug/ml 90
8) 2-Chlorophenol	4.76	128	440660	20.642ug/ml 91
9) 2-Methylphenol	5.16	108	354658	19.794ug/ml 97
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	354227	16.242ug/ml 100
11) Acetophenone	5.35	105	507436	19.745ug/ml 97
12) 4-methylphenol	5.32	108	369903	19.678ug/ml 97
14) N-Nitroso-di-n-propylamine	5.34	70	216932	19.240ug/ml 94
15) Hexachloroethane	5.48	117	198388	20.336ug/ml 96
18) Nitrobenzene	5.53	77	364586	19.420ug/ml 95
19) Isophorone	5.80	82	633175	19.466ug/ml 97
20) 2-Nitrophenol	5.89	139	240835	20.072ug/ml 98
22) 2,4-Dimethylphenol	5.92	107	379103	20.309ug/ml 96
23) Bis(2-chloroethoxy)methane	6.04	93	411042	19.093ug/ml 98
24) 2,4-Dichlorophenol	6.18	162	349724	21.130ug/ml 98
26) Naphthalene	6.40	128	1211580	19.750ug/ml 100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00592

Quantitation Report

Data File : C:\msdchem\1\data\20...15\15JUN15\GBM01S20.D Vial: 1
Acq On : 06/15/2015 15:28 Operator: DJC
Sample : SSTD020GM 28296 DFTPPGM Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 15 15:54:57 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 15 16:53:44 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.46	127	397892	19.621ug/ml	95
29)	Hexachlorobutadiene	6.56	225	220927	21.006ug/ml	99
30)	Caprolactam	6.91	113	118100	19.891ug/ml	66
31)	4-Chloro-3-methylphenol	7.11	107	331507	20.473ug/ml	94
32)	2-Methylnaphthalene	7.36	142	799109	20.403ug/ml	96
34)	1,2,4,5-Tetrachlorobenzene	7.61	216	344526	20.698ug/mL	98
35)	Hexachlorocyclopentadiene	7.60	237	273060	23.051ug/ml	99
36)	2,4,6-Trichlorophenol	7.78	196	244346	20.669ug/ml	99
37)	2,4,5-Trichlorophenol	7.83	196	254639	20.052ug/ml	99
38)	1,1'-Biphenyl	8.08	154	992183	21.167ug/ml	97
39)	2-Chloronaphthalene	8.11	162	742867	20.432ug/ml	98
40)	2-Nitroaniline	8.26	65	179036	18.759ug/ml	80
41)	Dimethylphthalate	8.58	163	823063	19.614ug/ml	99
43)	2,6-Dinitrotoluene	8.67	165	199400	20.609ug/ml	88
44)	Acenaphthylene	8.79	152	1232506	20.040ug/ml	99
46)	3-Nitroaniline	8.95	138	157251	22.688ug/ml	93
47)	Acenaphthene	9.08	153	764393	20.180ug/ml	94
48)	2,4-Dinitrophenol	9.13	184	127628	21.509ug/ml	100
49)	4-Nitrophenol	9.24	109	100216	19.435ug/ml	90
51)	Dibenzofuran	9.37	168	1013478	20.381ug/ml	99
52)	2,4-Dinitrotoluene	9.36	165	265202	20.297ug/ml	97
53)	2,3,4,6-Tetrachlorophenol	9.59	232	202870	21.222ug/mL	98
54)	Diethylphthalate	9.81	149	949153	21.874ug/ml	98
55)	4-Chlorophenyl-phenylether	9.99	204	391137	19.978ug/ml	97
56)	Fluorene	9.97	166	834924	20.239ug/ml	98
58)	4-Nitroaniline	10.00	138	163146	20.361ug/ml	73
60)	4,6-Dinitro-2-methylphenol	10.07	198	169505	21.209ug/ml	91
62)	N-Nitrosodiphenylamine	10.20	169	579299	20.604ug/ml	100
63)	4-Bromophenyl-phenyl ether	10.86	248	223640	20.459ug/ml	100
64)	Hexachlorobenzene	10.95	284	252491	21.005ug/ml	87
65)	Atrazine	11.19	200	212267	20.646ug/ml	96
66)	Pentachlorophenol	11.31	266	163219	21.477ug/ml	99
67)	Phenanthrene	11.70	178	1190840	20.255ug/ml	99
68)	Anthracene	11.79	178	1229870	20.499ug/ml	100
70)	Carbazole	12.10	167	962280	26.518ug/mL	99
71)	Di-n-butylphthalate	12.82	149	1531122	20.642ug/ml	99
72)	Fluoranthene	13.83	202	1230547	20.298ug/ml	95
74)	Pyrene	14.19	202	1269650	20.332ug/ml	94
76)	Butylbenzylphthalate	15.14	149	663880	20.076ug/ml	90
77)	3,3'-Dichlorobenzidine	15.80	252	375231	23.040ug/ml	98
78)	Benzo(a)anthracene	15.82	228	1119461	19.534ug/ml	100
79)	Chrysene	15.87	228	1040971	20.009ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	1019577	20.949ug/ml	97

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\15JUN15\GBM01S20.D Vial: 1
Acq On : 06/15/2015 15:28 Operator: DJC
Sample : SSTD020GM 28296 DFTPPGM Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 15 15:54:57 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jun 15 16:53:44 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.84	149	1702622	20.606ug/ml	100
83) Benzo(b)fluoranthene	17.50	252	1129025	19.839ug/ml	98
84) Benzo(k)fluoranthene	17.56	252	1121073	20.316ug/ml	97
85) Benzo(a)pyrene	18.14	252	1078872	19.654ug/ml	97
87) Indeno(1,2,3-c,d)pyrene	21.01	276	1073167	19.943ug/ml	90
88) Dibenzo(a,h)anthracene	21.09	278	1108291	20.075ug/ml	95
89) Benzo(g,h,i)perylene	21.86	276	1079215	19.803ug/ml	95

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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.: F9M21

Instrument ID: 5975-G Calibration Date: 06/15/2015 Time: 20:13

Lab File ID: GBM08S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020M1 Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	0.837	0.747	0.010	-10.7	50.0
Phenol	1.411	1.394	0.010	-1.2	50.0
Bis(2-chloroethyl)ether	1.177	1.083	0.010	-8.0	50.0
2-Chlorophenol	1.301	1.335	0.010	2.6	50.0
2-Methylphenol	1.092	1.068	0.010	-2.2	50.0
2,2'-Oxybis(1-chloropropane)	1.329	1.065	0.010	-19.9	50.0
Acetophenone	1.566	1.584	0.010	1.2	50.0
4-Methylphenol	1.146	1.143	0.010	-0.3	50.0
N-Nitroso-di-n-propylamine	0.687	0.657	0.010	-4.4	50.0
Hexachloroethane	0.595	0.590	0.010	-0.8	50.0
Nitrobenzene	0.309	0.301	0.010	-2.5	50.0
Isophorone	0.535	0.526	0.010	-1.7	50.0
2-Nitrophenol	0.197	0.201	0.010	1.6	50.0
2,4-Dimethylphenol	0.307	0.320	0.010	4.2	50.0
Bis(2-chloroethoxy)methane	0.354	0.339	0.010	-4.4	50.0
2,4-Dichlorophenol	0.272	0.284	0.010	4.4	50.0
Naphthalene	1.009	1.006	0.010	-0.4	50.0
4-Chloroaniline	0.334	0.341	0.010	2.1	50.0
Hexachlorobutadiene	0.173	0.183	0.010	5.5	50.0
Caprolactam	0.098	0.095	0.010	-3.0	50.0
4-Chloro-3-methylphenol	0.266	0.277	0.010	3.9	50.0
2-Methylnaphthalene	0.645	0.659	0.010	2.3	50.0
Hexachlorocyclopentadiene	0.352	0.271	0.010	-23.2	50.0
2,4,6-Trichlorophenol	0.351	0.366	0.010	4.1	50.0
2,4,5-Trichlorophenol	0.377	0.385	0.010	1.9	50.0
1,1'-Biphenyl	1.393	1.404	0.010	0.7	50.0
2-Chloronaphthalene	1.081	1.110	0.010	2.7	50.0
2-Nitroaniline	0.284	0.270	0.010	-4.9	50.0
Dimethylphthalate	1.247	1.221	0.010	-2.1	50.0
2,6-Dinitrotoluene	0.288	0.293	0.010	2.0	50.0
Acenaphthylene	1.828	1.831	0.010	0.1	50.0
3-Nitroaniline	0.206	0.236	0.010	14.4	50.0
Acenaphthene	1.126	1.132	0.010	0.6	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.: F9M21

Instrument ID: 5975-G Calibration Date: 06/15/2015 Time: 20:13

Lab File ID: GBM08S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020M1 Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.176	0.159	0.010	-10.1	50.0
4-Nitrophenol	0.153	0.147	0.010	-4.4	50.0
Dibenzofuran	1.478	1.499	0.010	1.4	50.0
2,4-Dinitrotoluene	0.388	0.390	0.010	0.3	50.0
Diethylphthalate	1.290	1.267	0.010	-1.8	50.0
Fluorene	1.226	1.240	0.010	1.1	50.0
4-Chlorophenyl-phenylether	0.582	0.587	0.010	0.9	50.0
4-Nitroaniline	0.238	0.257	0.010	7.8	50.0
4,6-Dinitro-2-methylphenol	0.149	0.140	0.010	-6.1	50.0
N-Nitrosodiphenylamine (1)	0.523	0.530	0.010	1.3	50.0
1,2,4,5-Tetrachlorobenzene	0.495	0.510	0.010	3.1	50.0
4-Bromophenyl-phenylether	0.203	0.205	0.010	0.8	50.0
Hexachlorobenzene	0.224	0.232	0.010	3.7	50.0
Atrazine	0.191	0.191	0.010	-0.2	50.0
Pentachlorophenol	0.141	0.148	0.010	4.3	50.0
Phenanthrene	1.094	1.081	0.010	-1.1	50.0
Anthracene	1.116	1.126	0.010	0.9	50.0
Carbazole	0.675	0.885	0.010	31.1	50.0
Di-n-butylphthalate	1.380	1.379	0.010	-0.1	50.0
Fluoranthene	1.128	1.120	0.010	-0.7	50.0
Pyrene	1.238	1.245	0.010	0.5	50.0
Butylbenzylphthalate	0.656	0.658	0.010	0.3	50.0
3,3'-Dichlorobenzidine	0.323	0.372	0.010	15.1	50.0
Benzo(a)anthracene	1.137	1.123	0.010	-1.2	50.0
Chrysene	1.032	1.026	0.010	-0.6	50.0
Bis(2-ethylhexyl)phthalate	0.965	0.974	0.010	0.9	50.0
Di-n-octylphthalate	1.688	1.749	0.010	3.6	50.0
Benzo(b)fluoranthene	1.163	1.173	0.010	0.9	50.0
Benzo(k)fluoranthene	1.127	1.146	0.010	1.6	50.0
Benzo(a)pyrene	1.121	1.124	0.010	0.2	50.0
Indeno(1,2,3-cd)pyrene	1.099	1.093	0.010	-0.6	50.0
Dibenzo(a,h)anthracene	1.128	1.125	0.010	-0.3	50.0
Benzo(g,h,i)perylene	1.113	1.092	0.010	-1.9	50.0
2,3,4,6-Tetrachlorophenol	0.284	0.300	0.010	5.7	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.: F9M21

Instrument ID: 5975-G Calibration Date: 06/15/2015 Time: 20:13

Lab File ID: GBM08S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020M1 Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

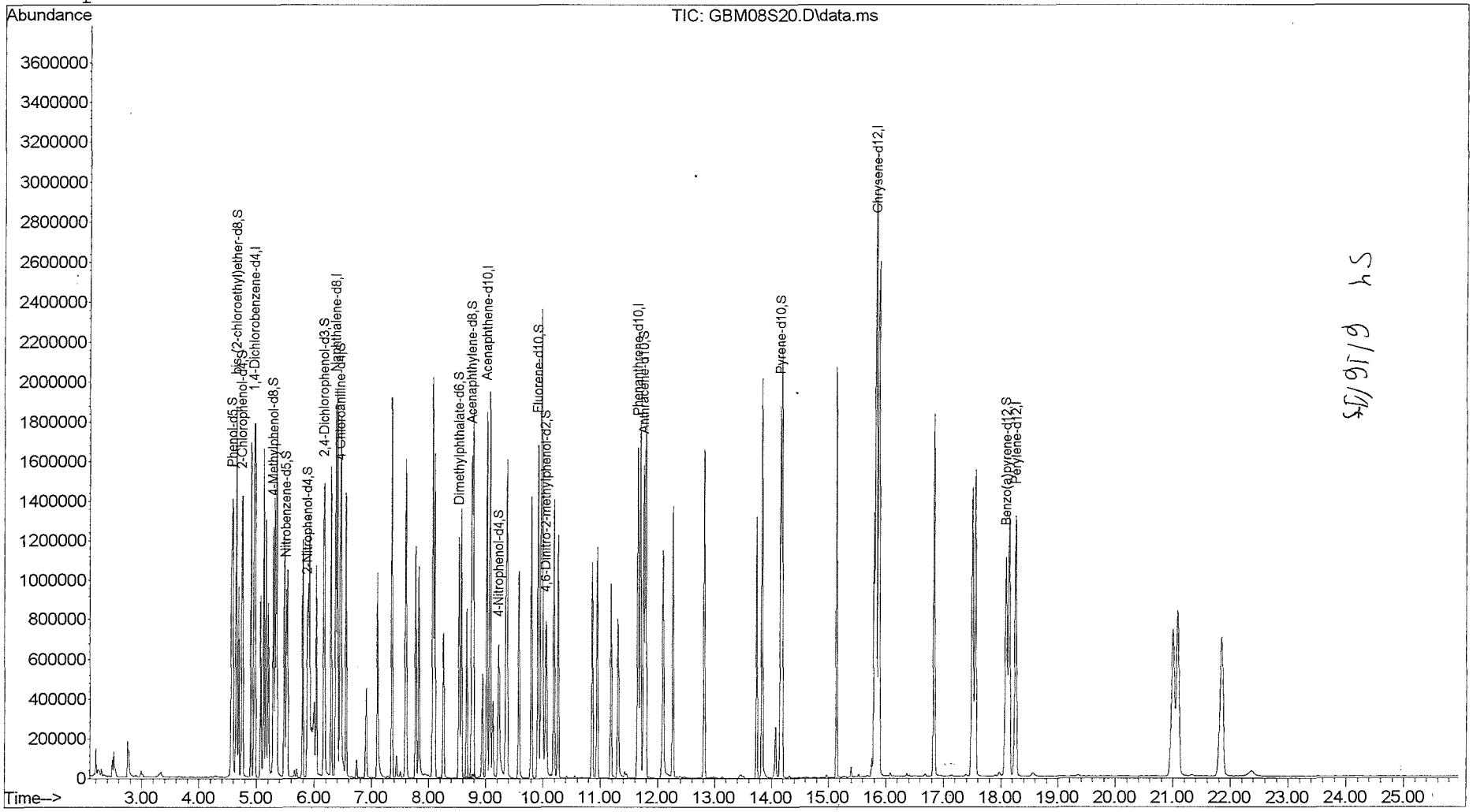
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.395	1.370	0.010	-1.8	50.0
Bis(2-chloroethyl)ether-d8	0.854	0.795	0.010	-6.9	50.0
2-Chlorophenol-d4	1.369	1.392	0.010	1.7	50.0
4-Methylphenol-d8	1.086	1.068	0.010	-1.6	50.0
Nitrobenzene-d5	0.168	0.169	0.010	0.7	50.0
2-Nitrophenol-d4	0.187	0.190	0.010	1.6	50.0
2,4-Dichlorophenol-d3	0.274	0.282	0.010	3.0	50.0
4-Chloroaniline-d4	0.297	0.279	0.010	-6.2	50.0
Dimethylphthalate-d6	1.216	1.238	0.010	1.8	50.0
Acenaphthylene-d8	1.623	1.653	0.010	1.8	50.0
4-Nitrophenol-d4	0.259	0.248	0.010	-4.2	50.0
Fluorene-d10	1.056	1.084	0.010	2.6	50.0
4,6-Dinitro-2-methylphenol-d2	0.131	0.123	0.010	-6.5	50.0
Anthracene-d10	1.012	1.021	0.010	1.0	50.0
Pyrene-d10	0.909	0.921	0.010	1.3	50.0
Benzo(a)pyrene-d12	0.907	0.926	0.010	2.1	50.0

Quantitation Report

Data File : C:\msdchem\1\data\20...15\15JUN15\GBM08S20.D Vial: 1
Acq On : 06/15/2015 20:13 Operator: DJC
Sample : SSTD020M1 28296 DFTPPM1 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 15 20:39:54 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 16 06:38:28 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...15\15JUN15\GBM08S20.D Vial: 1
Acq On : 06/15/2015 20:13 Operator: DJC
Sample : SSTD020M1 28296 DFTPPM1 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 15 20:39:54 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 16 06:38:28 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	310987	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1149389	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	645498	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1044975	20.00 ug/ml
73) Chrysene-d12	15.83	240	981293	20.00 ug/ml
81) Perylene-d12	18.26	264	945739	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	426072	19.647ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	247136	18.612ug/mL
7) 2-Chlorophenol-d4	4.74	132	432906	20.332ug/ml
13) 4-Methylphenol-d8	5.29	113	332126	19.671ug/mL
17) Nitrobenzene-d5	5.51	128	194200	20.138ug/ml
21) 2-Nitrophenol-d4	5.87	143	218294	20.312ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	324331	20.601ug/mL
28) 4-Chloroaniline-d4	6.45	131	320286	18.754ug/mL
42) Dimethylphthalate-d6	8.53	166	799354	20.362ug/mL
45) Acenaphthylene-d8	8.76	160	1066761	20.362ug/mL
50) 4-Nitrophenol-d4	9.22	143	160100	19.152ug/mL
57) Fluorene-d10	9.92	176	699809	20.524ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	128334	18.697ug/mL
69) Anthracene-d10	11.76	188	1067284	20.191ug/mL
75) Pyrene-d10	14.16	212	904068	20.265ug/mL
86) Benzo(a)pyrene-d12	18.09	264	875983	20.420ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.56	77	232435	17.862ug/ml 95
4) Phenol	4.59	94	433472	19.759ug/ml 97
5) Bis(2-chloroethyl)ether	4.69	93	336765	18.407ug/ml 89
8) 2-Chlorophenol	4.76	128	415272	20.527ug/ml 91
9) 2-Methylphenol	5.16	108	332039	19.555ug/ml 98
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	331062	16.018ug/ml 100
11) Acetophenone	5.35	105	492742	20.232ug/ml 95
12) 4-methylphenol	5.31	108	355327	19.947ug/ml 96
14) N-Nitroso-di-n-propylamine	5.33	70	204286	19.119ug/ml 93
15) Hexachloroethane	5.47	117	183404	19.839ug/ml 95
18) Nitrobenzene	5.53	77	346242	19.502ug/ml 95
19) Isophorone	5.79	82	604731	19.659ug/ml 97
20) 2-Nitrophenol	5.89	139	230584	20.321ug/ml 98
22) 2,4-Dimethylphenol	5.91	107	367855	20.837ug/ml 93
23) Bis(2-chloroethoxy)methane	6.03	93	389389	19.125ug/ml 99
24) 2,4-Dichlorophenol	6.17	162	326692	20.871ug/ml 98
26) Naphthalene	6.40	128	1155790	19.922ug/ml 100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00599

Quantitation Report

Data File : C:\msdchem\1\data\20...15\15JUN15\GBM08S20.D Vial: 1
Acq On : 06/15/2015 20:13 Operator: DJC
Sample : SSTD020M1 28296 DFTPPM1 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 15 20:39:54 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 16 06:38:28 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.46	127	391801	20.429ug/ml	95
29)	Hexachlorobutadiene	6.55	225	209830	21.096ug/ml	99
30)	Caprolactam	6.91	113	108927	19.399ug/ml	67
31)	4-Chloro-3-methylphenol	7.10	107	318183	20.778ug/ml	95
32)	2-Methylnaphthalene	7.36	142	757570	20.453ug/ml	97
34)	1,2,4,5-Tetrachlorobenzene	7.60	216	329193	20.615ug/mL	98
35)	Hexachlorocyclopentadiene	7.59	237	174656	15.369ug/ml	100
36)	2,4,6-Trichlorophenol	7.77	196	236116	20.819ug/ml	99
37)	2,4,5-Trichlorophenol	7.83	196	248333	20.385ug/ml	100
38)	1,1'-Biphenyl	8.07	154	906088	20.150ug/ml	97
39)	2-Chloronaphthalene	8.10	162	716732	20.549ug/ml	97
40)	2-Nitroaniline	8.26	65	174140	19.019ug/ml	81
41)	Dimethylphthalate	8.57	163	788475	19.586ug/ml	99
43)	2,6-Dinitrotoluene	8.67	165	189306	20.395ug/ml	88
44)	Acenaphthylene	8.78	152	1181679	20.028ug/ml	99
46)	3-Nitroaniline	8.94	138	152108	22.877ug/ml	93
47)	Acenaphthene	9.07	153	730963	20.116ug/ml	94
48)	2,4-Dinitrophenol	9.12	184	102387	17.987ug/ml	100
49)	4-Nitrophenol	9.23	109	94598	19.124ug/ml	90
51)	Dibenzofuran	9.37	168	967386	20.279ug/ml	99
52)	2,4-Dinitrotoluene	9.35	165	251541	20.068ug/ml	96
53)	2,3,4,6-Tetrachlorophenol	9.58	232	193818	21.135ug/mL	99
54)	Diethylphthalate	9.80	149	817715	19.644ug/ml	98
55)	4-Chlorophenyl-phenylether	9.99	204	379157	20.187ug/ml	98
56)	Fluorene	9.97	166	800377	20.224ug/ml	97
58)	4-Nitroaniline	10.00	138	165741	21.562ug/ml	72
60)	4,6-Dinitro-2-methylphenol	10.06	198	145957	18.788ug/ml	91
62)	N-Nitrosodiphenylamine	10.19	169	553968	20.270ug/ml	99
63)	4-Bromophenyl-phenyl ether	10.86	248	214207	20.160ug/ml	99
64)	Hexachlorobenzene	10.95	284	242431	20.749ug/ml	87
65)	Atrazine	11.19	200	199513	19.964ug/ml	97
66)	Pentachlorophenol	11.30	266	154162	20.869ug/ml	100
67)	Phenanthrene	11.69	178	1130010	19.774ug/ml	100
68)	Anthracene	11.79	178	1176690	20.177ug/ml	100
70)	Carbazole	12.09	167	924545	26.211ug/mL	99
71)	Di-n-butylphthalate	12.81	149	1440650	19.981ug/ml	99
72)	Fluoranthene	13.83	202	1170121	19.856ug/ml	95
74)	Pyrene	14.18	202	1221306	20.099ug/ml	95
76)	Butylbenzylphthalate	15.14	149	645422	20.058ug/ml	89
77)	3,3'-Dichlorobenzidine	15.79	252	364929	23.027ug/ml	98
78)	Benzo(a)anthracene	15.82	228	1101876	19.759ug/ml	100
79)	Chrysene	15.87	228	1006480	19.882ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	955344	20.172ug/ml	98

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\15JUN15\GBM08S20.D Vial: 1
Acq On : 06/15/2015 20:13 Operator: DJC
Sample : SSTD020M1 28296 DFTPPM1 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 15 20:39:54 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 16 06:38:28 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.83	149	1654038	20.723ug/ml	100
83) Benzo(b)fluoranthene	17.50	252	1108895	20.171ug/ml	98
84) Benzo(k)fluoranthene	17.55	252	1083588	20.327ug/ml	97
85) Benzo(a)pyrene	18.14	252	1062802	20.042ug/ml	97
87) Indeno(1,2,3-c,d)pyrene	21.00	276	1033709	19.886ug/ml	91
88) Dibenzo(a,h)anthracene	21.08	278	1063603	19.943ug/ml	95
89) Benzo(g,h,i)perylene	21.84	276	1032922	19.620ug/ml	94

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

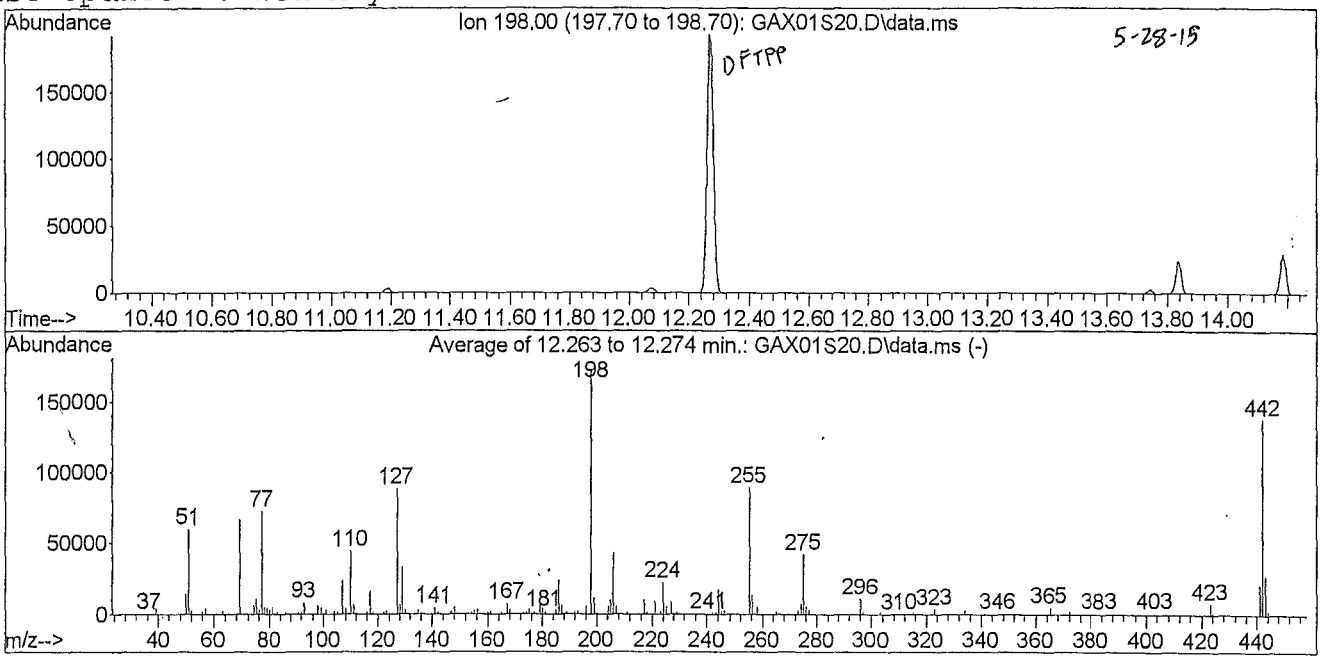
: 00591

Data Path : C:\msdchem\1\data\2015\MAY15\27MAY15PM\
Data File : GAX01S20.D
Acq On : 05/27/2015 15:49
Operator : DJC
Sample : SSTD020GX 28165 DFTPPGX
Inst : 5975-G
Misc : . X06/19/15
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M
Title : EPA/CLP SOM01
Last Update : Wed May 27 15:17:49 2015

Original with SDG: F9K48
Case: 45316



Average of Scans 1730, 1731, 1732; Background corrected with scan 1723

Spectrum Information: Average of 12.263 to 12.274 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.5	59670	PASS
68	69	0.00	2	2.0	1300	PASS
69	198	0.00	100	38.4	66443	PASS
70	69	0.00	2	0.4	297	PASS
127	198	10	80	51.1	88531	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	173163	PASS
199	198	5	9	6.6	11486	PASS
275	198	10	60	24.4	42221	PASS
365	198	1	100	2.8	4828	PASS
441	443	0.01	100	76.6	20965	PASS
442	198	50	100	79.9	138347	PASS
443	442	15	24	19.8	27379	PASS

Average of 12.263 to 12.274 min.: GAX01S20.D\data.ms
SSTD020GX 28165 DFTPPGX
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.95	198	57.00	4406	70.20	177	80.00	3555
38.05	670	58.00	200	70.80	121	81.00	5186
39.10	4170	61.00	925	70.95	60	82.05	1245
40.05	276	62.00	726	73.00	328	83.05	1417
41.05	139	63.05	2446	73.20	140	85.00	1133
49.15	324	64.00	419	74.05	6405	85.95	1193
50.10	14413	65.05	1286	75.00	10406	86.95	793
51.05	59670	67.00	116	76.10	3574	88.00	388
52.10	2918	68.05	1300	77.05	72527	89.00	304
55.00	311	69.00	66443	78.10	4941	91.00	1215
56.00	2015	69.95	297	79.00	4684	92.00	1300

Average of 12.263 to 12.274 min.: GAX01S20.D\data.ms
SSTD020GX 28165 DFTPPGX
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.00	7925	101.00	2936	112.05	867	125.00	1051
93.90	405	101.90	222	113.00	177	127.00	88531
94.10	185	102.95	1094	114.00	125	128.05	6708
95.00	59	103.95	1897	116.05	1428	129.00	33195
96.05	482	105.00	1868	117.00	16298	130.00	2887
97.00	78	106.05	680	118.00	1266	131.05	622
97.20	82	107.00	23941	119.00	96	132.05	278
98.00	6063	108.00	3882	120.10	335	132.40	81
99.00	4705	109.10	512	122.00	1654	132.85	125
99.95	421	110.00	44104	123.00	2377	134.00	905
100.20	101	111.00	6705	124.00	1054	135.00	2967

Average of 12.263 to 12.274 min.: GAX01S20.D\data.ms
SSTD020GX 28165 DFTPPGX
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
135.95	1065	146.10	458	156.90	219	166.10	1203
137.10	1185	146.95	2018	157.10	517	167.10	6907
138.00	262	148.00	4469	157.95	830	168.00	3157
139.05	35	149.00	886	159.00	603	169.05	727
140.00	521	150.10	246	160.05	1263	170.10	322
141.00	4480	151.00	569	161.05	1921	170.95	386
142.00	1396	151.85	464	161.80	115	172.00	827
143.00	991	153.00	1246	162.05	405	173.00	996
143.90	236	154.05	1133	162.95	134	174.05	1745
145.00	254	155.05	2351	164.00	215	175.05	3314
145.90	163	156.10	3481	165.00	1589	176.05	1097

Average of 12.263 to 12.274 min.: GAX01S20.D\data.ms
SSTD020GX 28165 DFTPPGX
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
177.00	1601	187.10	6468	198.00	173163	210.00	138
178.05	586	188.10	652	199.00	11486	210.20	301
179.00	6146	189.00	1324	200.05	991	211.00	1681
180.00	4225	190.00	261	201.45	791	212.05	138
181.05	1970	191.05	694	203.05	1040	215.05	543
182.05	328	192.00	2061	204.10	5945	216.05	892
182.60	61	193.05	1918	205.10	10186	217.00	10239
182.90	181	194.05	498	206.10	43251	218.05	1368
184.05	534	194.90	233	207.10	5497	218.90	65
185.05	3153	195.20	256	208.00	1424	221.10	9296
186.10	23701	196.05	5396	209.05	494	223.05	2553

: 00583

Average of 12.263 to 12.274 min.: GAX01S20.D\data.ms
SSTD020GX 28165 DFTPPGX
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
224.10	22435	235.05	588	246.05	3137	258.05	4991
225.10	5550	236.05	420	247.05	726	258.95	742
226.10	685	237.00	781	247.90	66	260.10	79
227.10	8673	238.00	56	249.05	626	260.90	76
228.05	1295	239.05	302	250.10	67	264.00	149
229.00	1771	240.00	272	251.05	142	265.05	1946
230.05	287	241.00	498	252.00	250	266.05	270
231.05	801	242.05	1312	253.00	456	271.05	205
232.05	201	243.10	1396	255.10	89128	272.05	263
233.00	162	244.10	17245	256.10	13583	273.10	2748
234.00	633	245.10	2288	257.10	1078	274.10	7576

Average of 12.263 to 12.274 min.: GAX01S20.D\data.ms
SSTD020GX 28165 DFTPPGX
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
275.10	42221	291.95	109	309.00	54	328.05	364
276.05	5434	293.00	807	309.95	151	332.00	61
277.05	3445	294.00	112	314.00	463	332.25	273
278.10	526	294.20	79	315.05	1272	333.10	342
283.00	255	296.10	10831	316.05	687	334.10	2288
283.20	155	297.05	1452	317.00	61	335.05	610
283.90	79	301.10	159	321.05	418	341.05	412
284.10	171	302.00	171	322.15	214	342.00	71
285.05	626	303.10	1387	323.10	3577	345.90	162
286.00	53	304.05	347	324.10	682	346.10	607
289.10	63	308.00	68	327.00	709	346.90	66

Average of 12.263 to 12.274 min.: GAX01S20.D\data.ms
SSTD020GX 28165 DFTPPGX
Modified:subtracted

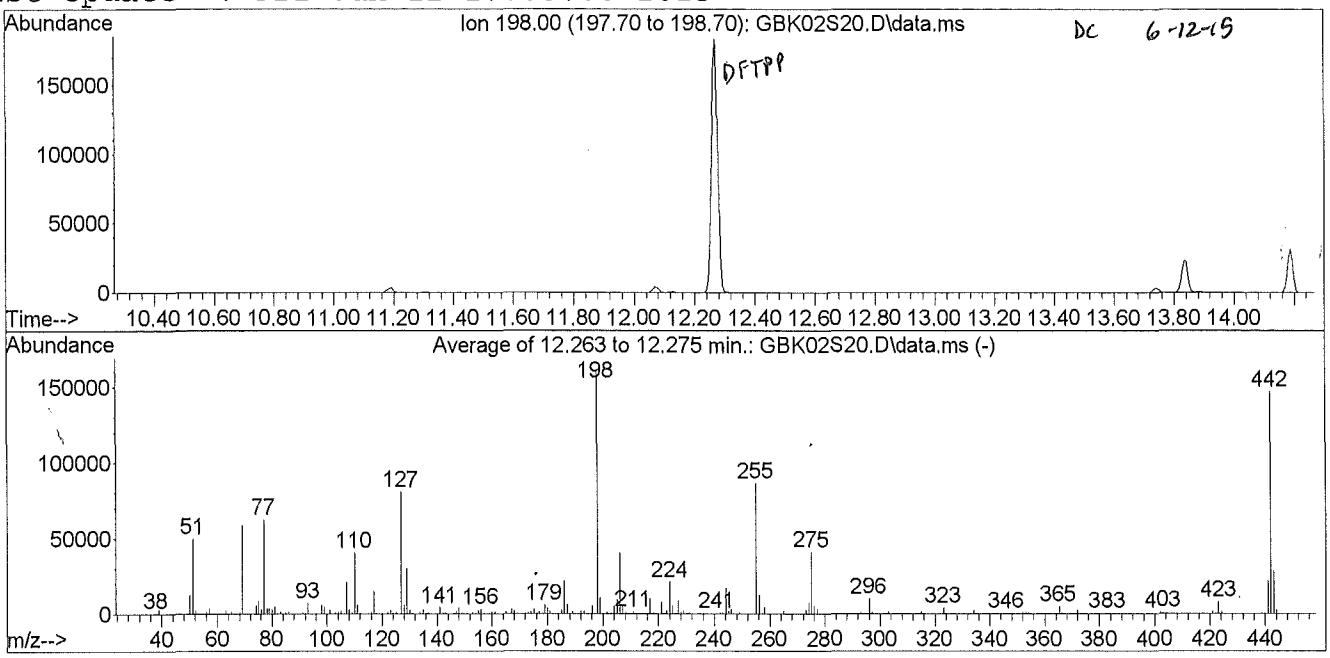
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
352.10	905	391.00	160	435.60	65		
353.05	737	392.10	57	436.50	117		
354.10	1171	401.00	58	437.20	97		
355.05	280	402.05	729	437.65	154		
365.05	4828	403.05	1106	438.40	153		
366.05	628	404.10	388	439.70	145		
371.05	343	421.05	1065	441.10	20965		
372.10	2005	422.10	989	442.10	138347		
373.10	496	423.10	7558	443.10	27379		
383.05	511	424.10	1523	444.10	2502		
390.10	292	425.10	146	445.05	127		

DFTPP

Data Path : C:\msdchem\1\data\2015\JUN15\12JUN15\
Data File : GBK02S20.D
Acq On : 06/12/2015 16:39
Operator : DJC
Sample : SSTD020GK 28296 DFTPPGK
Inst : 5975-G
Misc : . X06/19/15
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M
Title : EPA/CLP SOM01
Last Update : Fri Jun 12 17:08:06 2015



AVG. of SCANS 1730, 1731 and 1732 SUBTRACTED 1723

Spectrum Information: Average of 12.263 to 12.275 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	30.8	49717	PASS
68	69	0.00	2	1.9	1087	PASS
69	198	0.00	100	36.2	58467	PASS
70	69	0.00	2	0.7	437	PASS
127	198	10	80	50.1	80848	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	161451	PASS
199	198	5	9	6.7	10774	PASS
275	198	10	60	25.3	40811	PASS
365	198	1	100	3.0	4857	PASS
441	443	0.01	100	79.6	22245	PASS
442	198	50	100	91.0	146840	PASS
443	442	15	24	19.0	27941	PASS

: 0605

Average of 12.263 to 12.275 min.: GBK02S20.D\data.ms
SSTD020GK 28296 DFTPPGK
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.10	82	52.90	52	68.10	1087	79.95	3158
38.00	599	55.00	295	69.00	58467	81.00	4648
39.05	3123	56.00	1579	69.95	437	82.05	1137
40.00	232	57.00	3578	70.95	19	83.05	1234
41.05	211	57.95	141	73.05	558	83.80	135
42.95	15	61.00	713	74.05	5468	85.00	958
43.95	80	61.95	695	75.00	8676	86.00	1212
49.05	478	63.00	2051	76.10	2989	87.00	524
50.10	12350	64.05	318	77.05	62379	88.00	188
51.10	49717	65.05	1058	78.10	4105	89.10	103
52.05	2476	67.00	57	79.00	4049	91.05	1220

Average of 12.263 to 12.275 min.: GBK02S20.D\data.ms
SSTD020GK 28296 DFTPPGK
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.00	1087	102.05	159	113.00	103	126.20	221
93.00	6859	102.95	935	115.00	1	127.00	80848
94.00	476	103.95	1674	116.00	1295	128.00	6044
94.95	158	105.00	1594	117.00	14747	129.00	30205
96.00	376	106.10	370	118.00	1211	130.05	2625
97.00	85	107.00	20799	118.95	158	131.05	590
97.15	139	108.05	3307	119.95	291	132.05	209
98.00	5520	109.15	834	122.05	1424	132.90	56
99.00	4114	110.00	40456	123.00	2079	133.95	961
99.95	359	111.00	6022	123.95	1035	135.00	2390
101.00	2656	111.95	745	125.05	1074	135.90	394

Average of 12.263 to 12.275 min.: GBK02S20.D\data.ms
SSTD020GK 28296 DFTPPGK
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
136.05	737	147.05	1842	157.05	596	168.05	2212
136.95	1050	148.00	4070	158.00	776	169.05	607
137.90	190	149.00	824	159.00	571	169.80	58
140.00	83	150.00	283	159.95	1303	170.10	204
141.00	4139	150.95	493	161.00	1616	170.85	198
142.05	1217	151.70	208	162.00	501	171.10	122
143.00	961	152.05	183	162.90	152	172.00	692
144.00	217	153.05	1162	164.05	42	173.05	883
145.00	254	154.05	913	165.00	1404	174.05	1583
145.90	200	155.05	2025	166.05	162	175.05	3105
146.15	424	156.05	3258	167.10	3002	176.05	1062

Average of 12.263 to 12.275 min.: GBK02S20.D\data.ms
SSTD020GK 28296 DFTPPGK
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
176.90	1443	188.05	604	198.00	161451	208.90	118
178.05	562	189.00	1210	199.00	10774	209.05	276
179.00	5828	189.80	56	200.00	771	210.15	669
180.00	3938	190.05	179	200.80	62	211.05	1500
181.00	1967	191.05	603	201.45	848	211.70	170
182.00	314	192.00	1753	203.05	996	212.20	67
182.95	228	193.05	2053	204.10	5587	212.90	50
183.95	504	194.05	485	205.10	9416	215.05	464
185.05	2690	194.90	82	206.10	40483	216.05	842
186.10	21976	195.20	212	207.10	5199	217.05	9902
187.05	5943	196.05	5086	208.05	1200	218.00	1207

Average of 12.263 to 12.275 min.: GBK02S20.D\data.ms
SSTD020GK 28296 DFTPPGK
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
219.00	77	231.05	862	243.10	1077	253.05	453
221.10	7692	233.00	59	244.10	17036	255.10	86368
221.90	677	233.95	634	245.05	2303	256.10	12412
223.05	2237	235.00	665	246.05	2969	257.15	923
224.10	21096	236.00	439	247.00	675	258.05	4505
225.10	5463	237.05	690	248.00	176	259.00	739
226.10	636	238.00	61	249.00	740	260.95	113
227.05	8393	239.05	327	250.00	60	264.00	204
228.00	1294	240.05	260	251.05	220	265.00	1728
229.05	1828	241.05	597	251.80	75	266.00	326
230.05	309	242.10	1067	252.20	54	271.00	186

Average of 12.263 to 12.275 min.: GBK02S20.D\data.ms
SSTD020GK 28296 DFTPPGK
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
272.15	227	286.00	64	303.10	1248	323.10	3900
273.10	2780	289.10	75	304.05	337	324.00	238
274.10	7145	290.10	54	308.10	121	324.15	465
275.10	40811	292.00	133	310.00	62	327.00	594
276.10	5420	293.05	756	313.10	63	328.05	389
277.10	3197	294.05	196	314.05	625	332.05	255
278.05	447	295.00	133	315.05	1175	333.10	434
279.00	55	296.05	10009	316.05	675	334.10	2423
282.95	363	297.00	1329	317.00	66	335.00	649
284.00	242	298.00	52	321.10	350	341.00	312
285.05	593	301.95	122	322.00	216	341.20	168

Average of 12.263 to 12.275 min.: GBK02S20.D\data.ms
SSTD020GK 28296 DFTPPGK
Modified:subtracted

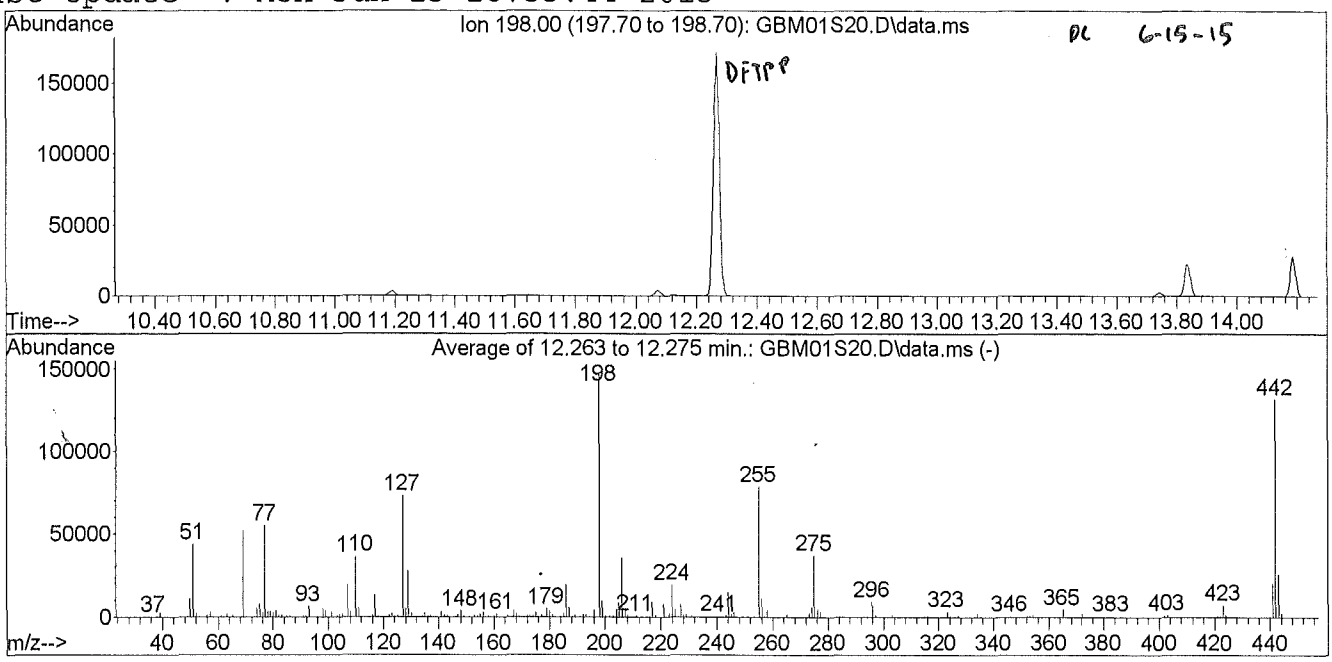
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
346.05	704	372.05	2145	421.05	1216	439.00	205
346.95	174	373.05	538	422.05	992	439.30	183
351.10	55	383.05	529	423.10	7881	439.60	403
352.05	1214	383.90	58	424.15	1604	441.10	22245
353.05	808	390.00	252	425.10	102	442.10	146840
354.10	1170	391.00	128	436.00	51	443.10	27941
355.05	226	392.10	61	436.50	81	444.10	2708
365.05	4857	401.10	55	437.10	88	445.00	122
366.05	702	402.05	874	437.55	141		
370.00	68	403.05	1108	437.90	96		
371.10	303	404.05	438	438.75	258		

:0697

Data Path : C:\msdchem\1\data\2015\JUN15\15JUN15\
Data File : GBM01S20.D
Acq On : 06/15/2015 15:28
Operator : DJC
Sample : SSTD020GM 28296 DFTPPGM
Inst : 5975-G
Misc : . X06/19/15
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M
Title : EPA/CLP SOM01
Last Update : Mon Jun 15 16:53:44 2015



Average of Scans 1730, 1731, 1732 ; Background corrected with Scan 1719

Spectrum Information: Average of 12.263 to 12.275 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	29.4	43411	PASS
68	69	0.00	2	1.3	682	PASS
69	198	0.00	100	35.1	51766	PASS
70	69	0.00	2	0.5	246	PASS
127	198	10	80	49.6	73141	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	147584	PASS
199	198	5	9	6.7	9882	PASS
275	198	10	60	25.1	37032	PASS
365	198	1	100	3.1	4581	PASS
441	443	0.01	100	79.4	20232	PASS
442	198	50	100	89.2	131643	PASS
443	442	15	24	19.4	25491	PASS

Average of 12.263 to 12.275 min.: GBM01S20.D\data.ms
SSTD020GM 28296 DFTPPGM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.00	154	52.00	2201	65.05	1087	76.05	3043
38.00	561	53.00	124	66.00	56	77.05	55320
39.05	2865	55.20	186	67.05	58	78.00	3704
40.00	140	56.00	1494	68.05	682	79.00	3626
41.00	91	57.00	3190	69.00	51766	80.00	2941
42.00	50	58.00	272	70.00	246	80.95	3917
44.00	133	58.95	146	71.00	25	82.00	1094
45.00	132	61.00	659	72.20	61	83.05	1291
49.10	364	62.00	670	73.00	386	83.80	119
50.05	10919	63.05	2069	74.00	5245	84.10	123
51.05	43411	64.00	331	74.95	8036	85.00	853

Average of 12.263 to 12.275 min.: GBM01S20.D\data.ms
SSTD020GM 28296 DFTPPGM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
86.00	1100	97.05	117	107.05	19141	118.00	865
86.95	467	98.00	4684	108.00	2946	120.05	296
88.05	202	99.00	3835	109.05	499	121.00	87
89.00	134	99.80	96	110.00	36189	122.00	1336
91.00	1079	100.00	264	111.00	5514	123.00	1867
91.95	1016	101.00	2816	112.00	651	123.95	934
93.00	6539	102.10	164	112.95	122	124.95	976
93.90	110	103.05	801	113.90	65	127.00	73141
94.10	306	104.00	1728	114.10	62	128.05	5557
95.00	64	105.00	1453	116.00	1167	129.00	27693
96.05	434	106.05	500	117.00	13225	130.00	2446

Average of 12.263 to 12.275 min.: GBM01S20.D\data.ms
SSTD020GM 28296 DFTPPGM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
131.05	472	142.00	1124	151.70	195	161.70	107
131.80	98	143.00	922	151.95	251	162.00	441
132.10	291	143.80	55	153.00	1236	163.10	223
133.00	90	144.10	143	154.00	805	164.00	95
134.05	849	145.00	179	155.05	2000	165.00	1101
135.00	2430	146.05	542	156.05	3024	166.05	26
136.05	881	147.00	1791	157.05	818	167.10	3886
137.05	1013	148.00	3846	157.95	798	168.10	2062
138.05	95	149.00	712	159.00	574	169.00	653
140.05	76	150.05	279	160.00	984	169.95	178
141.00	3389	151.05	550	161.00	1819	170.90	374

Average of 12.263 to 12.275 min.: GBM01S20.D\data.ms
SSTD020GM 28296 DFTPPGM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
172.00	729	183.00	153	193.00	1465	204.00	5067
173.00	883	183.90	109	194.05	415	205.05	8588
174.00	1484	184.05	291	194.90	237	206.10	35325
175.05	2895	185.05	2548	195.20	269	207.10	4632
176.05	886	186.05	19416	196.05	4486	208.05	1207
177.00	1471	187.00	5821	198.00	147584	208.90	338
178.05	480	188.05	629	199.00	9882	209.10	134
179.00	5009	189.00	1229	200.05	816	210.10	194
180.05	3651	189.95	226	201.40	793	210.40	329
180.95	1673	191.00	627	202.10	110	210.90	439
181.95	262	192.00	1726	203.00	968	211.10	933

Average of 12.263 to 12.275 min.: GBM01S20.D\data.ms
SSTD020GM 28296 DFTPPGM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
212.10	85	225.10	5023	235.95	419	247.00	675
213.00	64	226.10	562	237.05	595	247.90	58
215.05	364	227.00	7582	238.00	54	248.10	71
216.00	720	227.95	1113	239.00	363	249.05	582
217.00	9098	229.00	1655	240.05	191	249.90	71
218.05	1245	229.95	239	240.95	433	251.05	233
218.90	59	231.05	813	242.05	911	252.10	241
221.05	7734	231.95	115	243.15	1227	253.05	350
221.70	702	232.95	123	244.10	14864	255.10	78299
223.00	2136	234.00	547	245.15	2003	256.10	11203
224.10	19059	235.05	624	246.05	2976	257.05	861

Average of 12.263 to 12.275 min.: GBM01S20.D\data.ms
SSTD020GM 28296 DFTPPGM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
258.05	4168	274.10	6375	292.10	63	303.05	1113
259.00	681	275.10	37032	293.05	750	304.05	361
260.90	102	276.05	4860	294.10	216	308.05	174
263.85	140	277.00	3158	295.20	131	310.00	57
264.10	75	278.00	534	296.05	8946	314.05	502
265.05	1642	281.10	60	297.05	1272	315.05	982
265.95	360	281.90	64	297.90	52	316.00	712
270.80	67	282.95	427	300.90	124	321.05	369
271.10	59	283.95	249	301.20	50	322.20	83
272.20	163	285.05	626	301.80	60	323.10	3137
273.10	2368	288.90	71	302.05	137	324.05	691

Average of 12.263 to 12.275 min.: GBM01S20.D\data.ms
SSTD020GM 28296 DFTPPGM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
325.00	79	341.10	439	369.90	55	403.05	1230
325.90	54	342.10	66	371.05	308	404.15	387
326.10	54	346.05	587	372.10	2029	415.10	51
327.00	679	347.10	57	373.10	502	421.05	928
327.90	197	351.00	56	383.00	437	422.10	952
328.10	92	352.10	956	384.10	56	423.10	7036
331.85	152	353.05	752	390.10	219	424.10	1334
332.20	134	354.15	1133	391.15	217	424.95	118
333.10	373	355.00	264	400.90	65	436.90	79
334.05	2047	365.05	4581	401.10	78	437.80	157
335.10	452	366.05	623	401.95	845	438.25	263

Average of 12.263 to 12.275 min.: GBM01S20.D\data.ms
SSTD020GM 28296 DFTPPGM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
438.65	260						
439.15	310						
439.70	247						
440.00	229						
441.10	20232						
442.10	131643						
443.10	25491						
444.10	2335						

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK93

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450193

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBK03BLK

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

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.

SBLK93

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450193

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBK03BLK

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

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.
SBLK93

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450193
Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBK03BLK
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: Decanted: (Y/N) Date Received:
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015
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-	2.50	1000	JN
02		Unknown 2-Pentanone, 4-hydroxy-	3.38	310	J
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.60	8800	J
04		Unknown 2-(2-Methoxyethoxy)ethyl acetate	4.16	150	J
05		Unknown 3-Hexene-2,5-dione	4.36	360	J
06		Unknown 6-Amino-2,4-dithiouracil	6.82	87.	J
07	629-54-9	Hexadecanamide	14.25	130	JN
08	301-02-0	9-Octadecenamide, (Z)-	15.17	860	JN
09		Unknown 2,6-Octadienoic acid, 3-methyl-, methyl	16.32	130	J
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	930	J

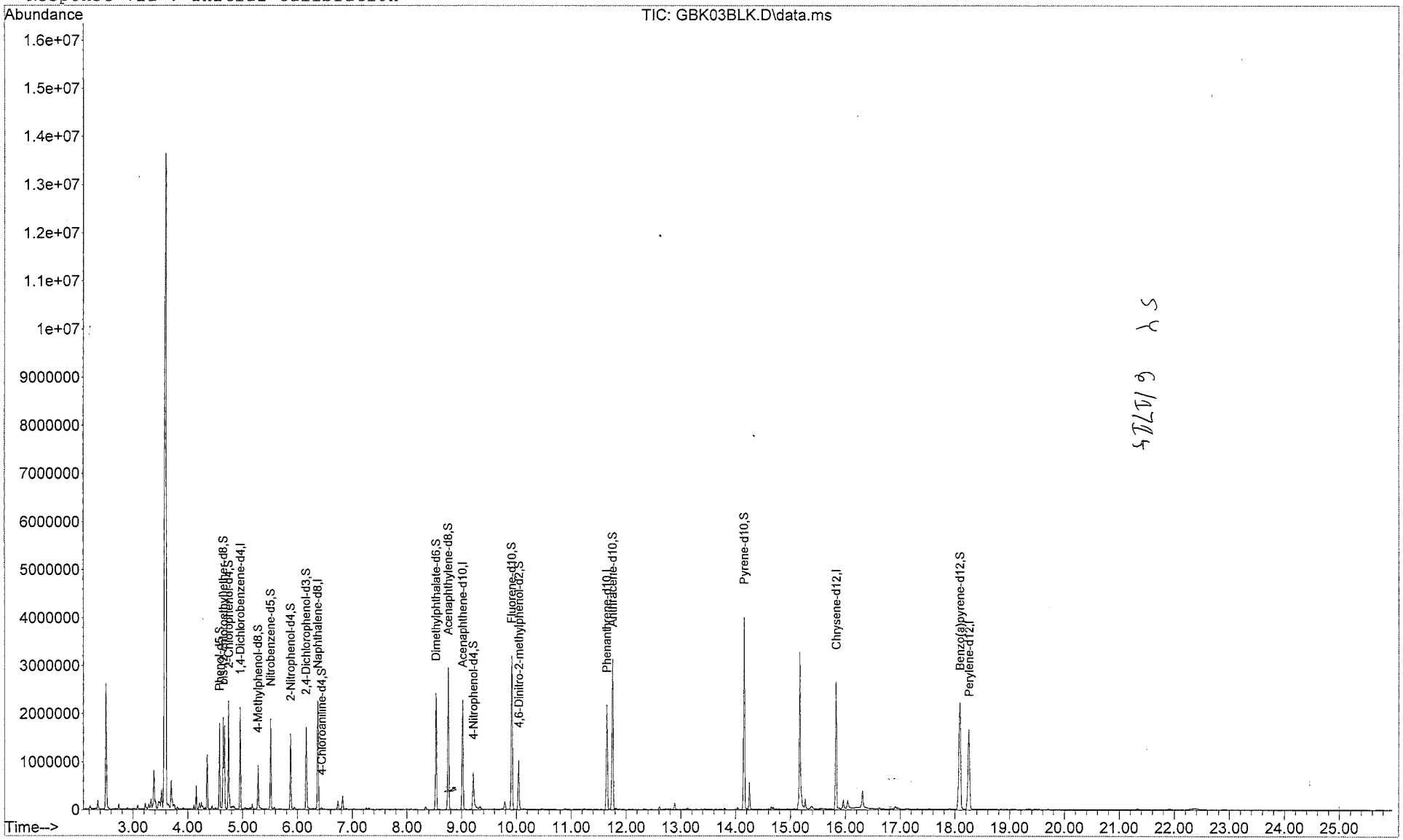
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK03BLK.D Vial: 2
Acq On : 06/12/2015 17:14 Operator: DJC
Sample : 450193 SBLK93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 17 07:57:25 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK03BLK.D Vial: 2
Acq On : 06/12/2015 17:14 Operator: DJC
Sample : 450193 SBLK93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 17 07:57:25 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	355500	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1388256	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	802233	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1296788	20.00 ug/ml
73) Chrysene-d12	15.83	240	1247962	20.00 ug/ml
81) Perylene-d12	18.26	264	1232287	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.58	99	720256	29.054ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	414455	27.304ug/mL
7) 2-Chlorophenol-d4	4.75	132	696745	28.626ug/ml
13) 4-Methylphenol-d8	5.28	113	246850	12.790ug/mL
17) Nitrobenzene-d5	5.51	128	357718	30.712ug/ml
21) 2-Nitrophenol-d4	5.87	143	411573	31.707ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	500359	26.313ug/mL
28) 4-Chloroaniline-d4	6.44	131	21123	1.024ug/mL
42) Dimethylphthalate-d6	8.53	166	1583422	32.455ug/mL
45) Acenaphthylene-d8	8.76	160	1972433	30.293ug/mL
50) 4-Nitrophenol-d4	9.22	143	317666	30.576ug/mL
57) Fluorene-d10	9.92	176	1357755	32.040ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	266915	31.335ug/mL
69) Anthracene-d10	11.76	188	2074633	31.626ug/mL
75) Pyrene-d10	14.16	212	1852985	32.660ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1754157	31.382ug/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)\12JUN15\GBK03BLK.D Vial: 2
Acq On : 06/12/2015 17:14 Operator: DJC
Sample : 450193 SBLK93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 17 07:57:25 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 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)

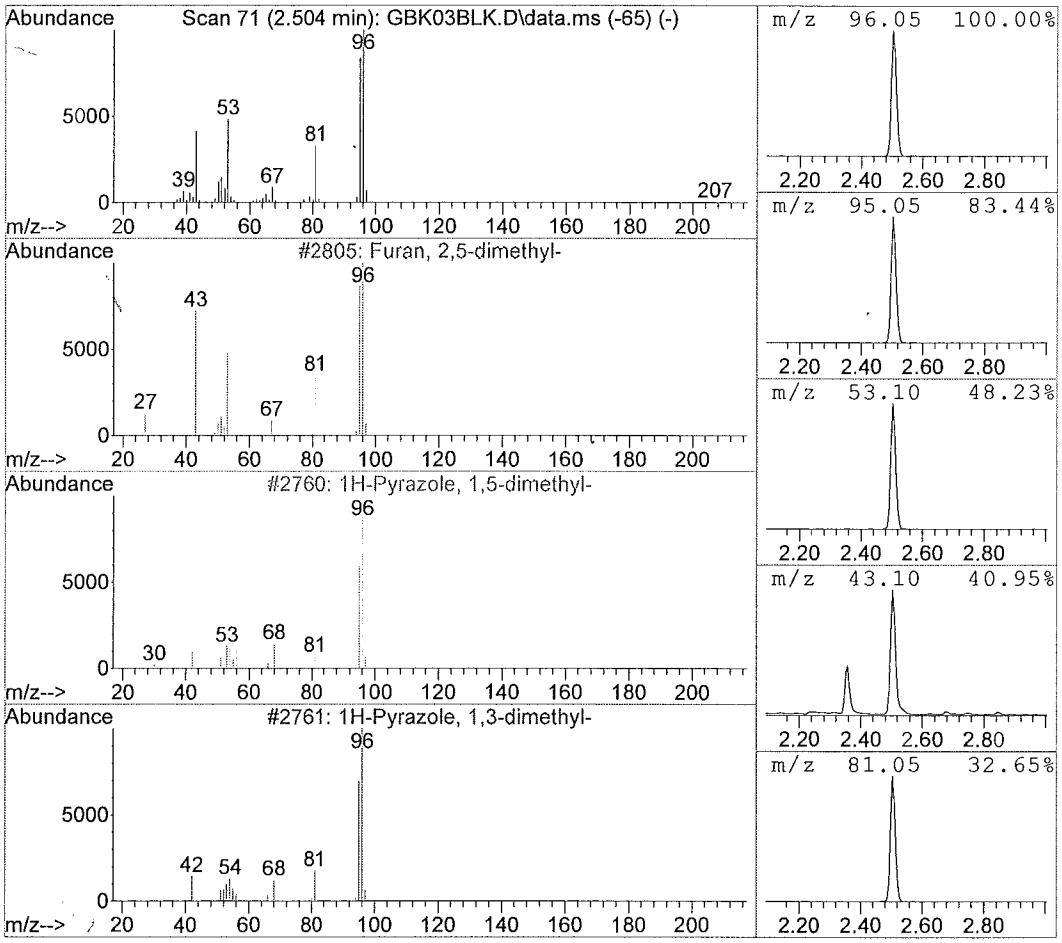
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK03BLK.D Vial: 2
Acq On : 06/12/2015 17:14 Operator: DJC
Sample : 450193 SBLK93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.50	30.65 ug/ml	3051650	1,4-Dichlorobenzene-d4	1991154

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Furan, 2,5-dimethyl-	2805	000625-86-5	94.00
2	1H-Pyrazole, 1,5-dimethyl-	2760	000694-31-5	38.00
3	1H-Pyrazole, 1,3-dimethyl-	2761	000694-48-4	38.00
4	2-Cyclopenten-1-one, 3-methyl-	2821	002758-18-1	38.00
5	3,5-Dimethylpyrazole	2748	000067-51-6	35.00

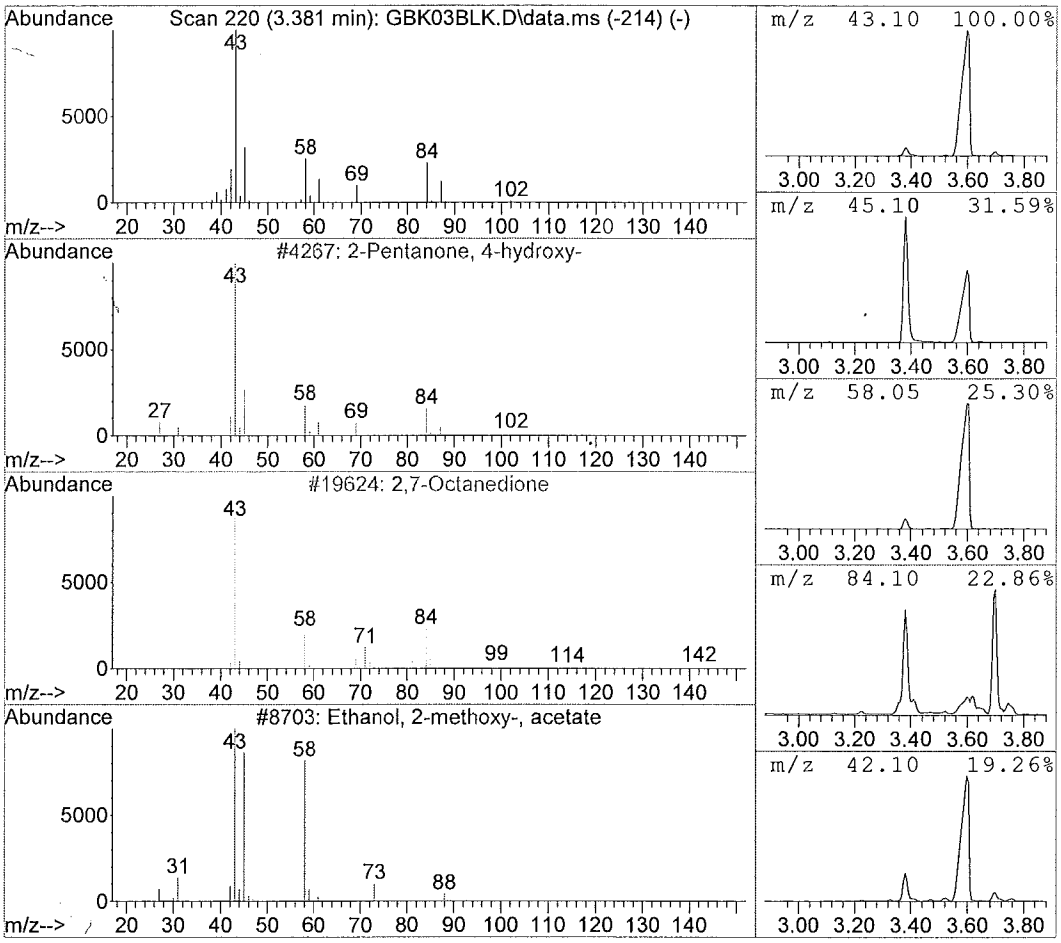


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK03BLK.D Vial: 2
Acq On : 06/12/2015 17:14 Operator: DJC
Sample : 450193 SBLK93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.38	9.44 ug/ml	940302	1,4-Dichlorobenzene-d4	1991154

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	56.00
2	2,7-Octanedione	19624	001626-09-1	25.00
3	Ethanol, 2-methoxy-, acetate	8703	000110-49-6	12.00
4	Isopropyl acetate	4254	000108-21-4	10.00
5	Acetone	217	000067-64-1	9.00

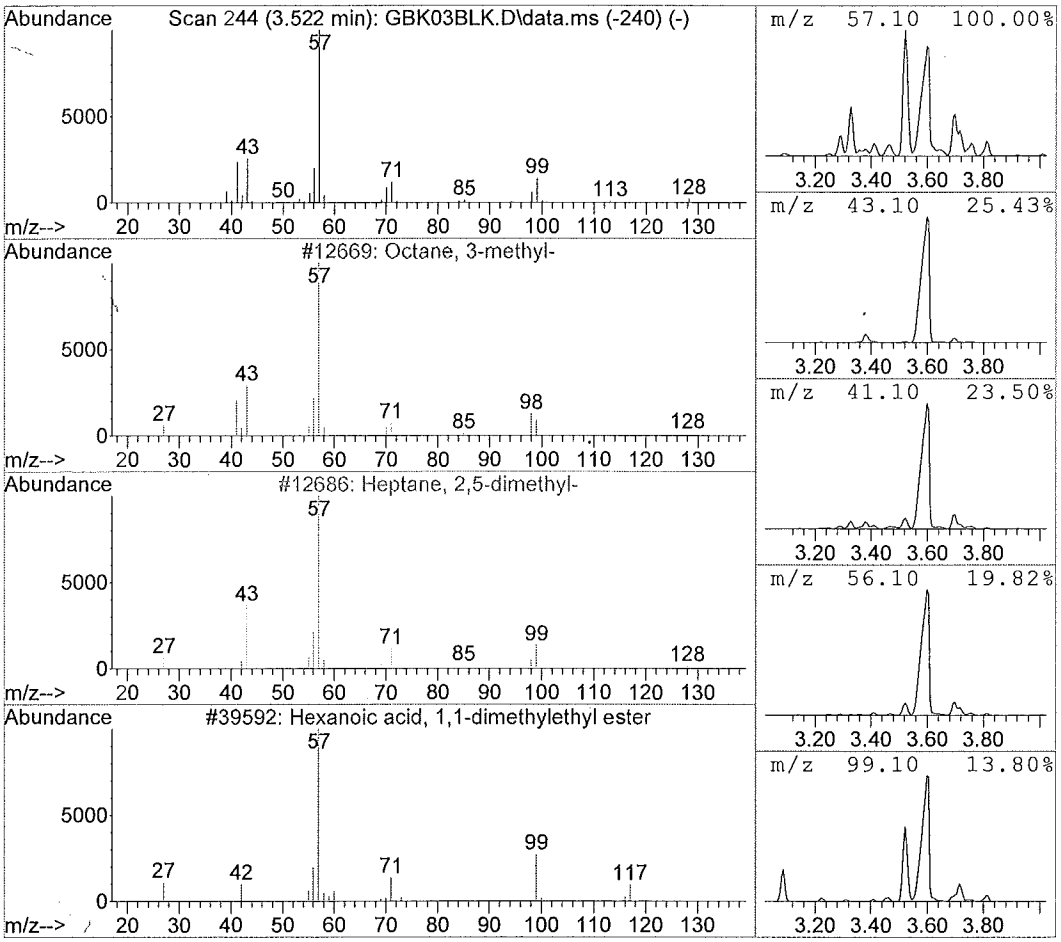


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK03BLK.D Vial: 2
Acq On : 06/12/2015 17:14 Operator: DJC
Sample : 450193 SBLK93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.52	4.34 ug/ml	431945	1,4-Dichlorobenzene-d4	1991154

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octane, 3-methyl- BA	12669	002216-33-3	91.00
2	Heptane, 2,5-dimethyl-	12686	002216-30-0	86.00
3	Hexanoic acid, 1,1-dimethylethyl es	39592	002492-18-4	72.00
4	2,2,4,4-Tetramethyloctane	38352	062183-79-3	64.00
5	Heptane, 3,5-dimethyl-	12698	000926-82-9	59.00

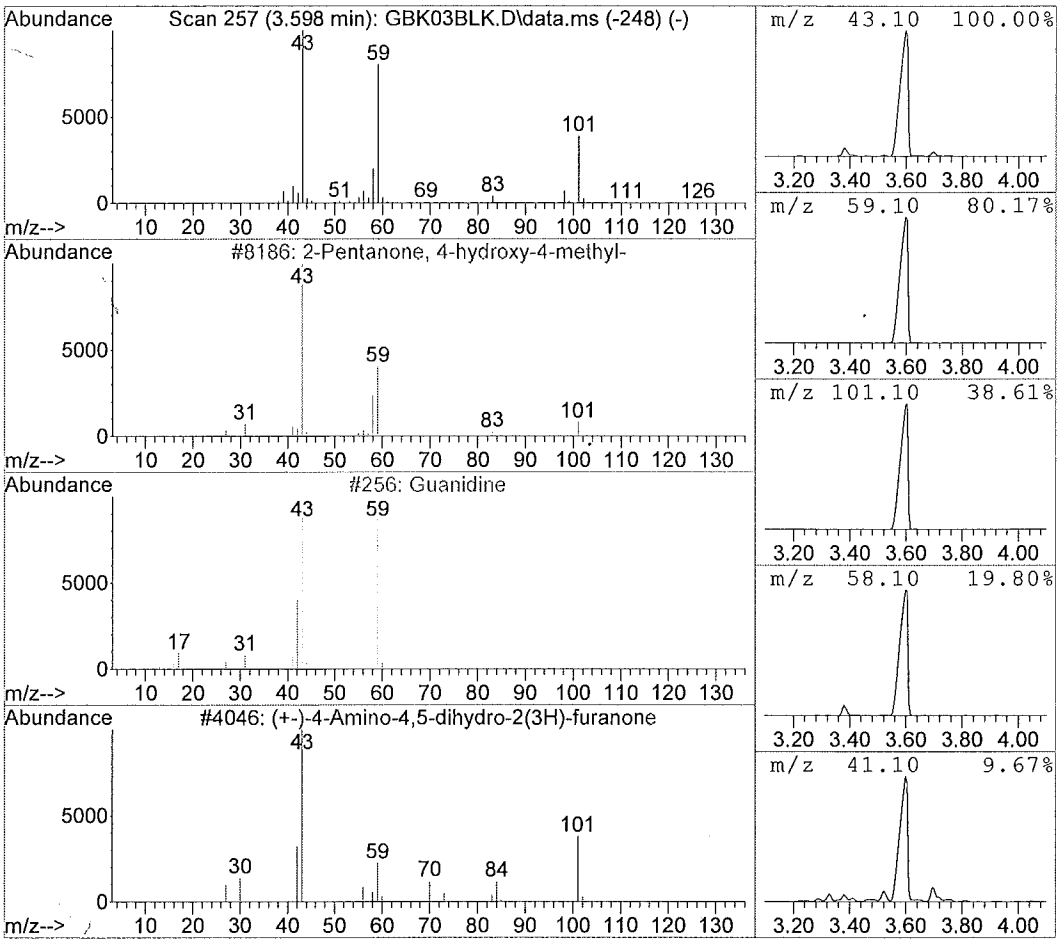


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK03BLK.D Vial: 2
Acq On : 06/12/2015 17:14 Operator: DJC
Sample : 450193 SBLK93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.60	262.62 ug/ml	26146317	1,4-Dichlorobenzene-d4	1991154

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	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	35.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	23.00
5	Propanamide, N-ethyl-	4082	005129-72-6	10.00



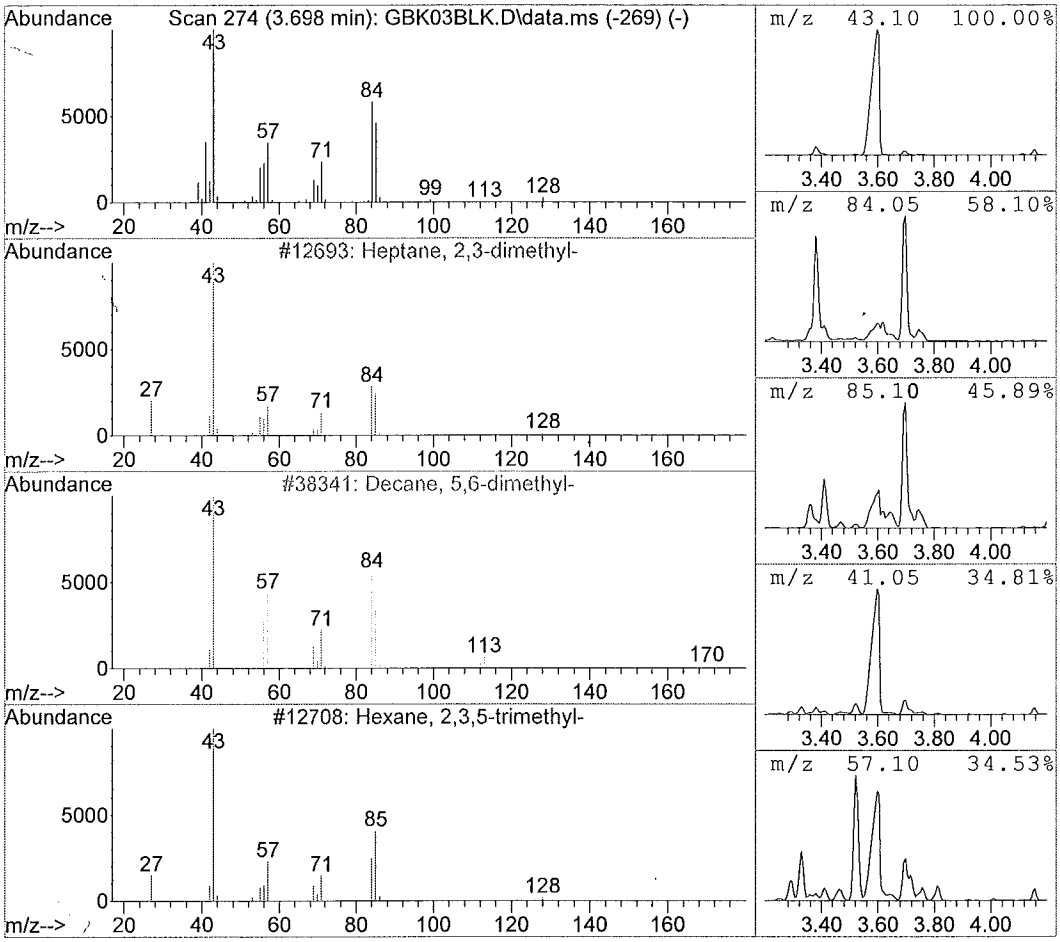
Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK03BLK.D Vial: 2
Acq On : 06/12/2015 17:14 Operator: DJC
Sample : 450193 SBLK93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.70	8.18 ug/ml	814164	1,4-Dichlorobenzene-d4	1991154

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12693	003074-71-3	74.00
2	Decane, 5,6-dimethyl-	38341	001636-43-7	64.00
3	Hexane, 2,3,5-trimethyl-	12708	001069-53-0	58.00
4	Octane, 3,4-dimethyl-	19179	015869-92-8	50.00
5	Hexane, 2,4-dimethyl-	7633	000589-43-5	50.00

BA



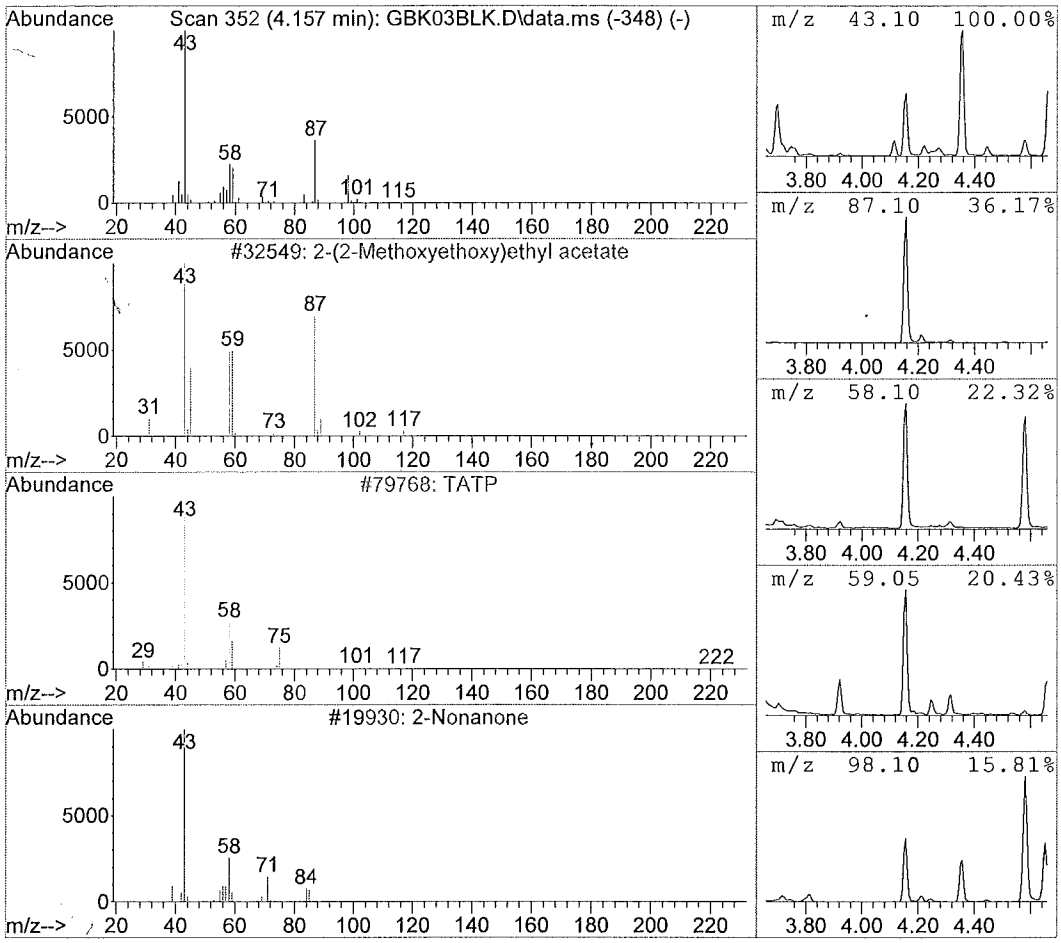
00621

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK03BLK.D Vial: 2
Acq On : 06/12/2015 17:14 Operator: DJC
Sample : 450193 SBLK93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.16	4.56 ug/ml	454153	1,4-Dichlorobenzene-d4	1991154

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-(2-Methoxyethoxy)ethyl acetate	32549	1000351-95-4	53.00
2	TATP	79768	017088-37-8	38.00
3	2-Nonanone	19930	000821-55-6	35.00
4	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	28.00
5	2-Hexanone, 6-(acetyloxy)-	30005	004305-26-4	17.00

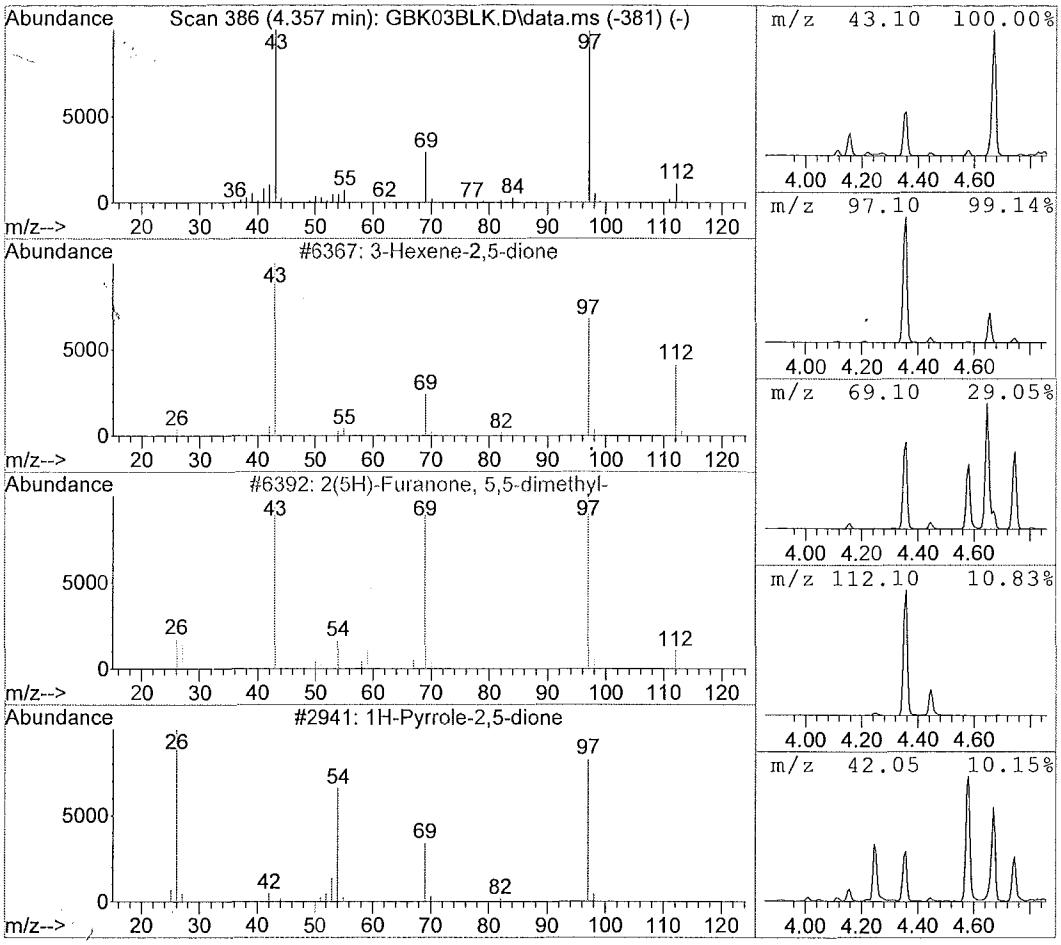


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK03BLK.D Vial: 2
Acq On : 06/12/2015 17:14 Operator: DJC
Sample : 450193 SBLK93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.36	10.79 ug/ml	1074137	1,4-Dichlorobenzene-d4	1991154

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene-2,5-dione	6367	004436-75-3	78.00
2	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	64.00
3	1H-Pyrrole-2,5-dione	2941	000541-59-3	40.00
4	4-Methyl-2-pyrazolin-5-one	3041	013315-23-6	36.00
5	5-Hexen-2-one, 5-methyl-	6529	003240-09-3	10.00

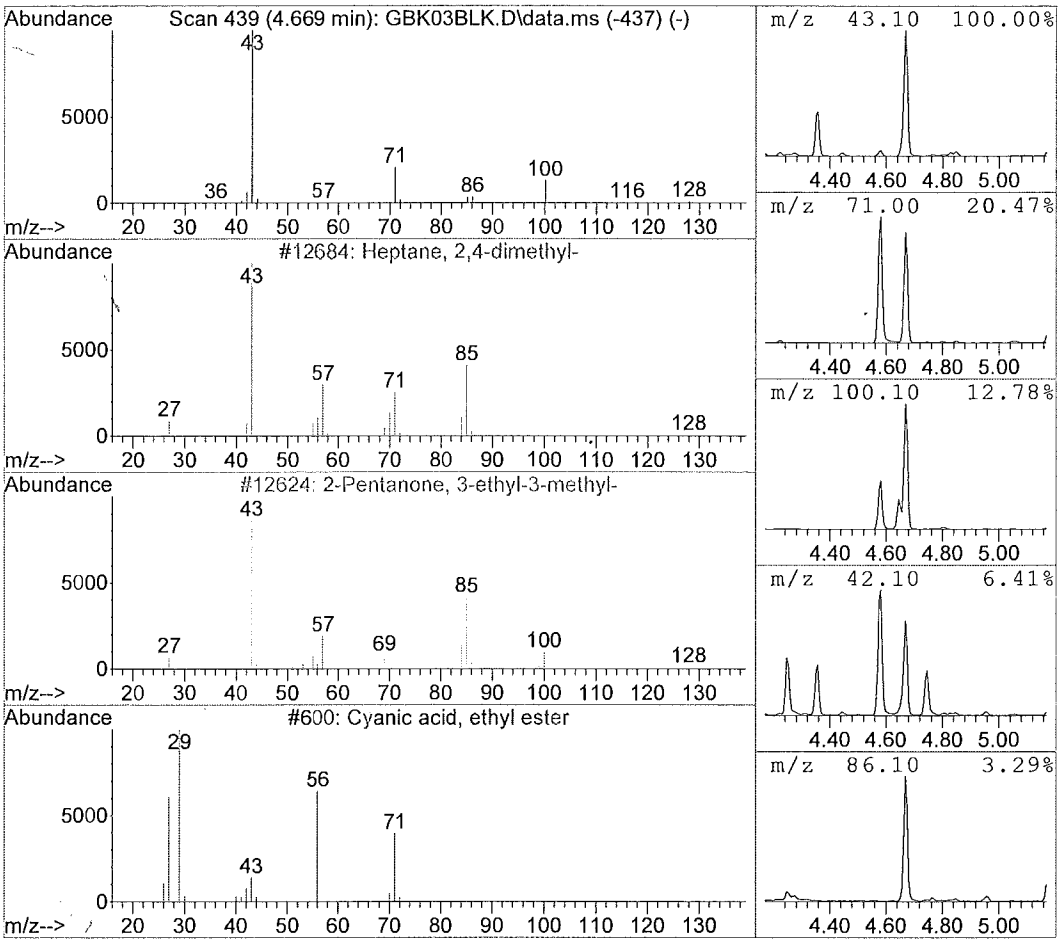


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK03BLK.D Vial: 2
Acq On : 06/12/2015 17:14 Operator: DJC
Sample : 450193 SBLK93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.67	15.25 ug/ml	1518004	1,4-Dichlorobenzene-d4	1991154

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,4-dimethyl-	12684	002213-23-2	45.00
2	2-Pentanone, 3-ethyl-3-methyl-	12624	019780-65-5	9.00
3	Cyanic acid, ethyl ester	600	000627-48-5	9.00
4	Heptane, 2,3-dimethyl-	12694	003074-71-3	9.00
5	Pentane, 2-methyl-	1823	000107-83-5	9.00



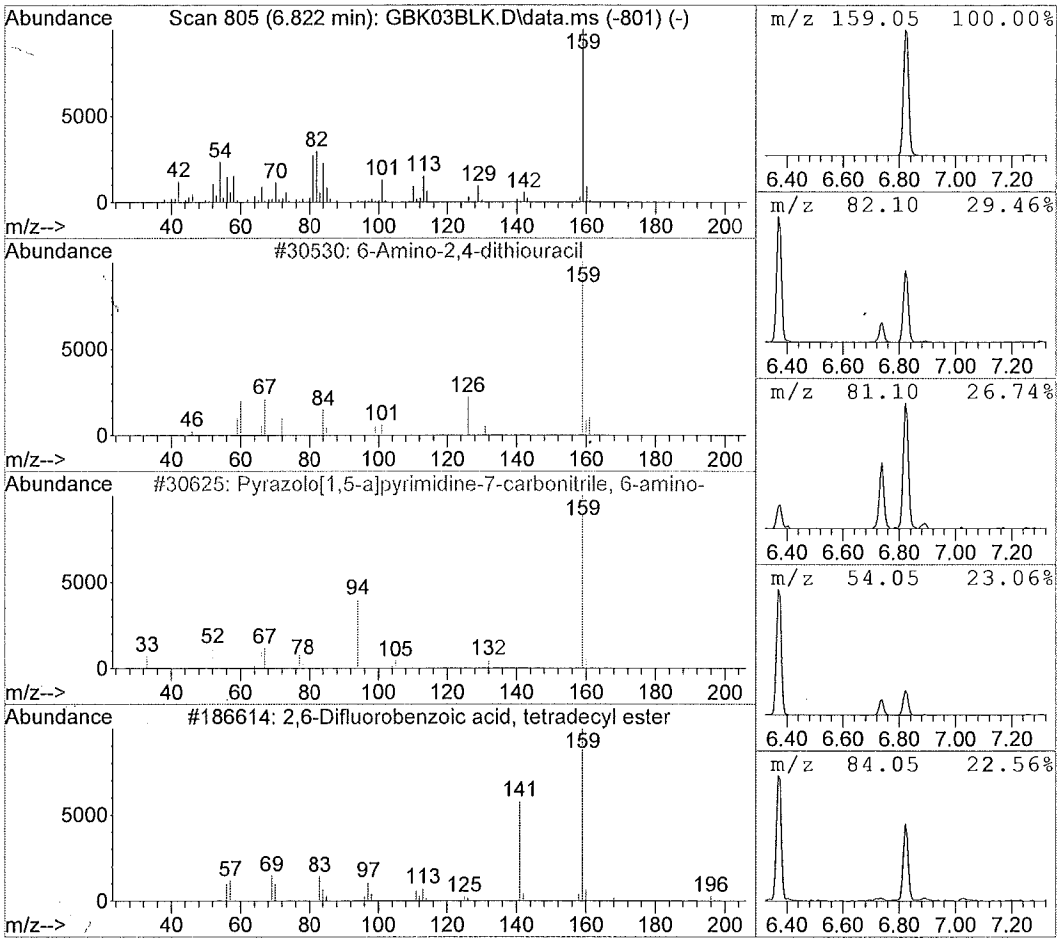
00624

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK03BLK.D Vial: 2
Acq On : 06/12/2015 17:14 Operator: DJC
Sample : 450193 SBLK93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.82	2.62 ug/ml	355463	Naphthalene-d8	2708404

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	6-Amino-2,4-dithiouracil	30530	006632-70-8	38.00
2	Pyrazolo[1,5-a]pyrimidine-7-carboni	30625	1000267-04-4	35.00
3	2,6-Difluorobenzoic acid, tetradecy	186614	1000292-39-4	32.00
4	3-Amino-2-naphthol	30395	005417-63-0	32.00
5	2,5-Difluorobenzoic acid, eicosyl e	224255	1000338-81-8	32.00

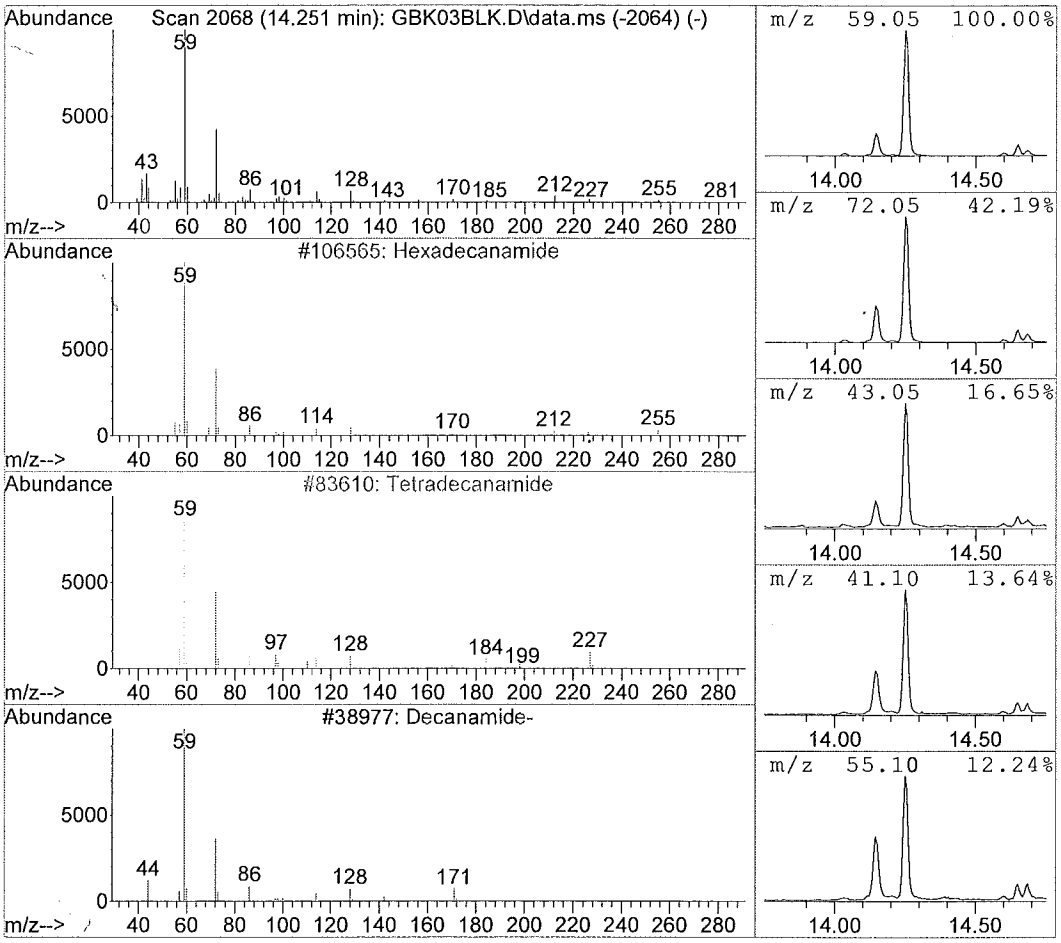


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK03BLK.D Vial: 2
Acq On : 06/12/2015 17:14 Operator: DJC
Sample : 450193 SBLK93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.25	3.92 ug/ml	692135	Chrysene-d12	3533280

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	95.00
2	Tetradecanamide	83610	000638-58-4	90.00
3	Decanamide-	38977	002319-29-1	78.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	72.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00

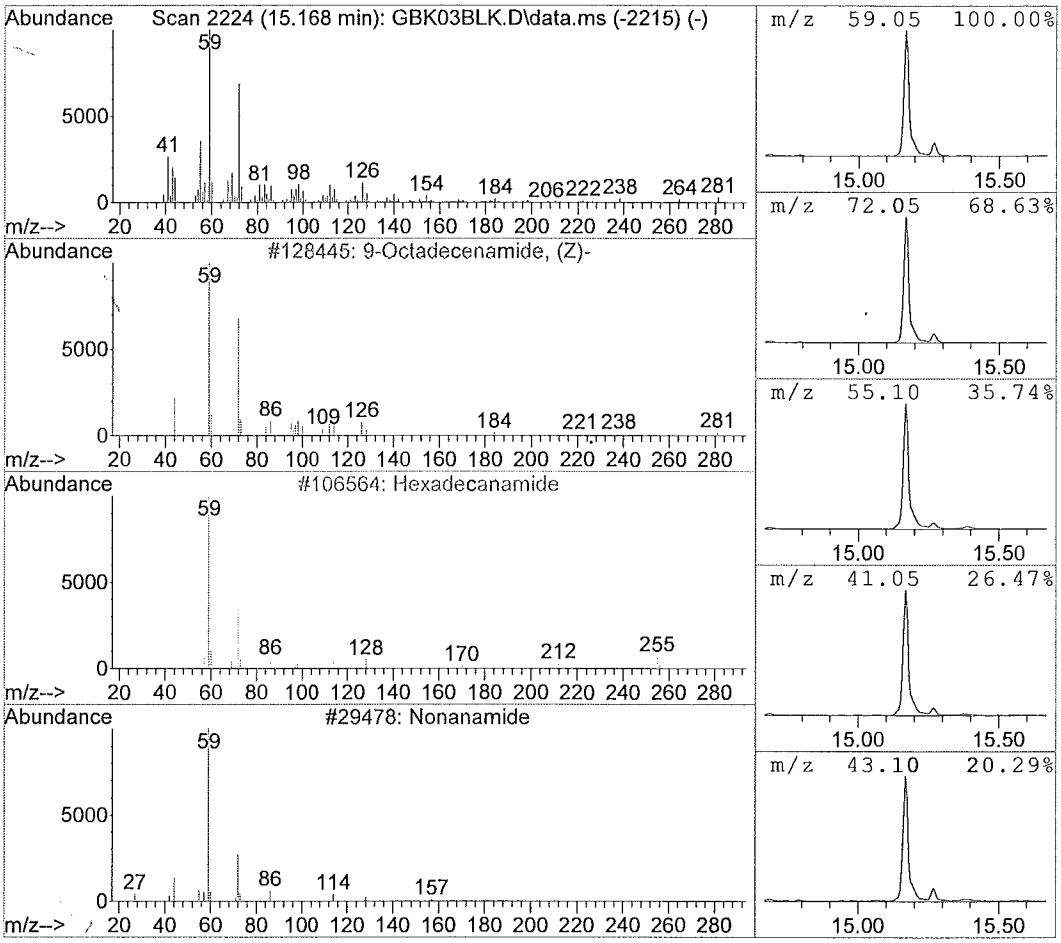


Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK03BLK.D Vial: 2
Acq On : 06/12/2015 17:14 Operator: DJC
Sample : 450193 SBLK93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	25.90 ug/ml	4575867	Chrysene-d12	3533280

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Hexadecanamide	106564	000629-54-9	56.00
3	Nonanamide	29478	001120-07-6	53.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	50.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	50.00



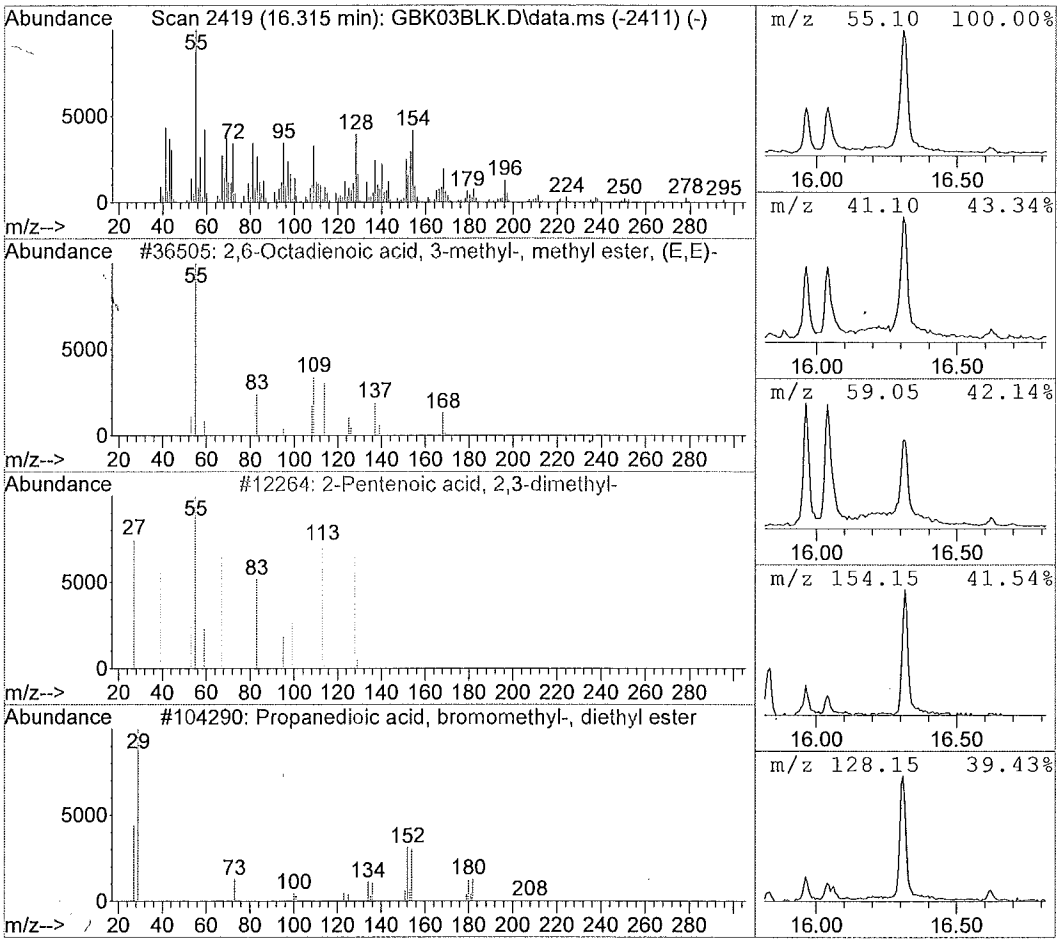
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK03BLK.D Vial: 2
Acq On : 06/12/2015 17:14 Operator: DJC
Sample : 450193 SBLK93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.32	3.89 ug/ml	686993	Chrysene-d12	3533280

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,6-Octadienoic acid, 3-methyl-, me	36505	055283-13-1	11.00
2	2-Pentenoic acid, 2,3-dimethyl-	12264	122630-51-7	10.00
3	Propanedioic acid, bromomethyl-, di	104290	029263-94-3	9.00
4	2-(6'-Methoxycarbonyl-5'-methyl-2'-	96940	085547-38-2	9.00
5	2,6-Decadienoic acid, 3-methyl-, et	69363	055283-34-6	9.00

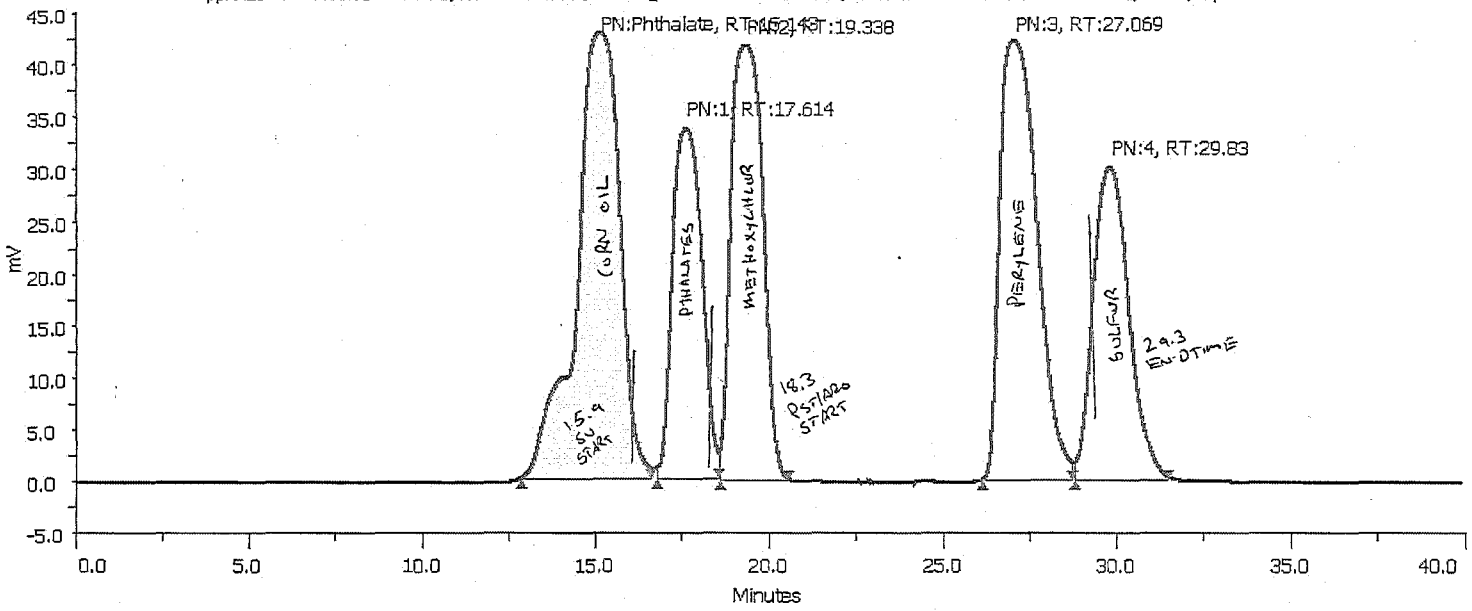


Graph

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
5/25/15
Lyle Edmond
STP # 195WS38823

App: ALS GPC Methods Small FC, Run: 05252015-065221 @ 5/25/2015 6:52:26 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 Weekly	Sample Zone->1	Phthalate	12.888	15.143	6185062.9167	42.65	0	90.122
3	GPC Weekly	Sample Zone->1	1	16.776	17.614	3298919.1667	33.43	90.122	91.565
3	GPC Weekly	Sample Zone->1	2	18.578	19.338	4422131.25	41.52	91.565	342.046
3	GPC Weekly	Sample Zone->1	3	26.172	27.069	5238672.5	42.14	342.046	106.152
3	GPC Weekly	Sample Zone->1	4	28.819	29.83	3595322.9167	29.99	106.152	0

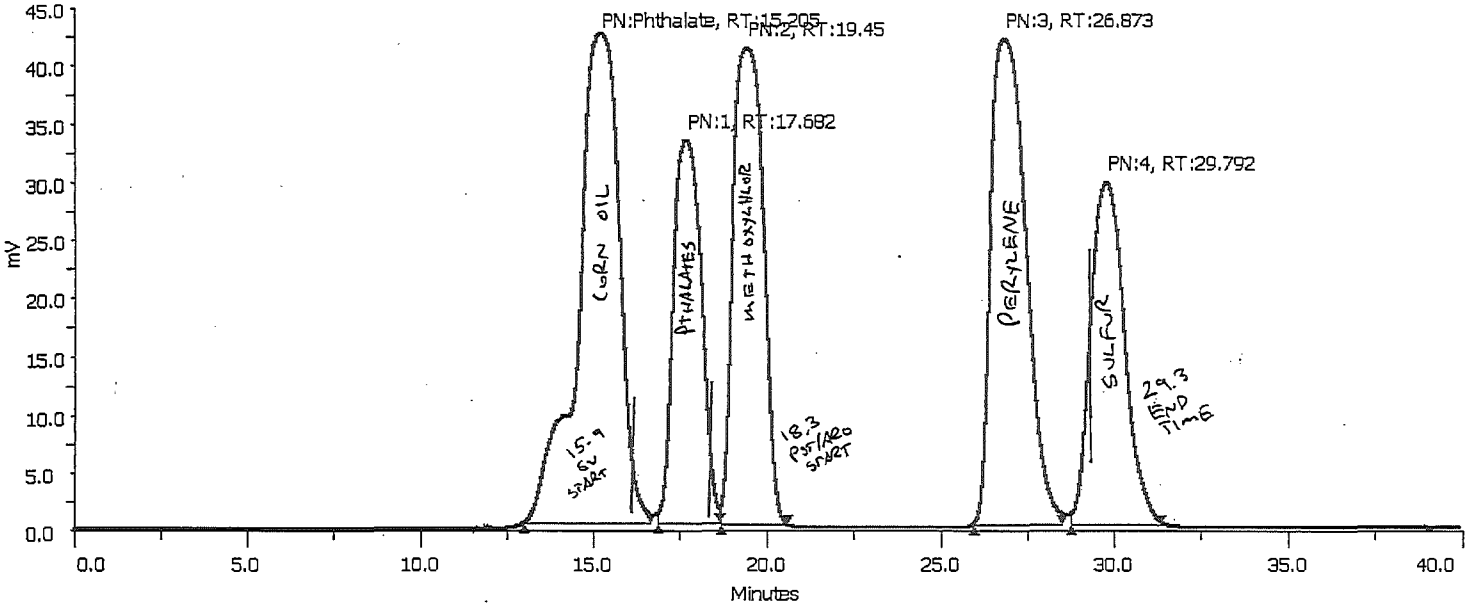
Run Variables

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
Lyle Edwards
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

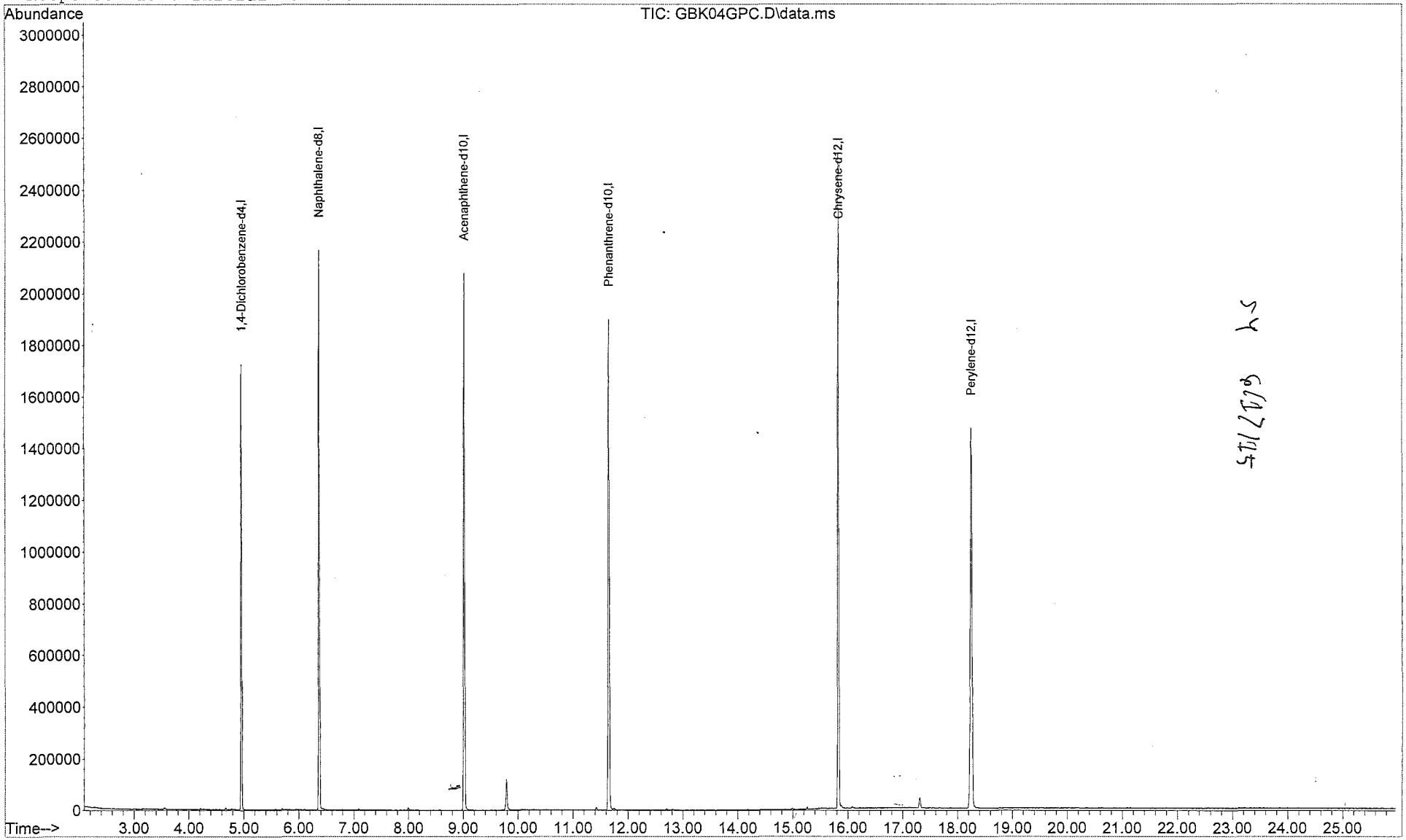
Run Variables

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK04GPC.D Vial: 3
Acq On : 06/12/2015 17:46 Operator: DJC
Sample : 450810 GBLK10 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 17 07:58:10 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\12JUN15\GBK04GPC.D Vial: 3
Acq On : 06/12/2015 17:46 Operator: DJC
Sample : 450810 GBLK10 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 17 07:58:10 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	336300	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1290188	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	731462	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1147202	20.00 ug/ml
73) Chrysene-d12	15.83	240	1119840	20.00 ug/ml
81) Perylene-d12	18.25	264	1113965	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	0.00	143	0	0.000ug/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	9.90	176	320	0.008ug/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	0.00	212	0	0.000ug/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)\12JUN15\GBK04GPC.D Vial: 3
Acq On : 06/12/2015 17:46 Operator: DJC
Sample : 450810 GBLK10 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 17 07:58:10 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 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)

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.: F9M21

	EPA SAMPLE NO.	SDMC17 (FLN) #	SDMC18 (2MN) #	TOT OUT
01	F9M21	0 D	0 D	0
02	F9M22	0 D	63	0
03	F9M23	1136 D	0 D	0
04	F9M24	0 D	0 D	0
05	F9M25	0 D	0 D	0
06	F9M26	0 D	0 D	0
07	F9M27	57	59	0
08	F9M28	86	82	0
09	F9M29	79	81	0
10	F9M30	90	83	0
11	F9M31	95	96	0
12	F9M32	89	76	0
13	F9M33	84	72	0
14	F9M34	91	89	0
15	F9M35	87	76	0
16	F9M37	0 D	0 D	0
17	F9M38	86	86	0
18	F9M39	0 D	76	0
19	F9M40	0 D	0 D	0
20	F9M41	57	80	0
21	SBLK93	84	92	0
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.

SBLK93

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab File ID: DGB03BLK Lab Sample ID: 450193

Instrument ID: 5975-D Date Extracted: 06/08/2015

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 06/15/2015

Time Analyzed: 15:32 Extraction: (Type) SONC GPC Cleanup: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	F9M21	1515542001	DGB05F01	06/15/2015
02	F9M22	1515542002	DGB06F02	06/15/2015
03	F9M23	1515542003	DGB07F03	06/15/2015
04	F9M24	1515542004	DGB08F04	06/15/2015
05	F9M25	1515542005	DGB09F05	06/15/2015
06	F9M26	1515542006	DGB10F06	06/15/2015
07	F9M27	1515542007	DGB11F07	06/15/2015
08	F9M28	1515542010	DGB12F10	06/15/2015
09	F9M29	1515542011	DGB13F11	06/15/2015
10	F9M30	1515542012	DGB14F12	06/15/2015
11	F9M31	1515542013	DGB15F13	06/15/2015
12	F9M32	1515542014	DGB16F14	06/15/2015
13	F9M33	1515542015	DGB17F15	06/15/2015
14	F9M34	1515542016	DGB18F16	06/15/2015
15	F9M35	1515542017	DGB19F17	06/15/2015
16	F9M37	1515542018	DGB22F18	06/16/2015
17	F9M38	1515542019	DGB23F19	06/16/2015
18	F9M39	1515542020	DGB24F20	06/16/2015
19	F9M40	1515542021	DGB25F21	06/16/2015
20	F9M41	1515542022	DGB26F22	06/16/2015
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.: F9M21

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.: SSTD0.4DB

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab File ID: DGB01SP4 DFTPP Injection Date: 06/15/2015

Instrument ID: 5975-D DFTPP Injection Time: 15:02

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	SSTD0.4DB	SSTD0.4DB	DGB01SP4	06/15/2015	15:02
02	SBLK93	450193	DGB03BLK	06/15/2015	15:32
03	F9M21	1515542001	DGB05F01	06/15/2015	16:33
04	F9M22	1515542002	DGB06F02	06/15/2015	17:03
05	F9M23	1515542003	DGB07F03	06/15/2015	17:33
06	F9M24	1515542004	DGB08F04	06/15/2015	18:04
07	F9M25	1515542005	DGB09F05	06/15/2015	18:34
08	F9M26	1515542006	DGB10F06	06/15/2015	19:04
09	F9M27	1515542007	DGB11F07	06/15/2015	19:33
10	F9M28	1515542010	DGB12F10	06/15/2015	20:03
11	F9M29	1515542011	DGB13F11	06/15/2015	20:33
12	F9M30	1515542012	DGB14F12	06/15/2015	21:03
13	F9M31	1515542013	DGB15F13	06/15/2015	21:32
14	F9M32	1515542014	DGB16F14	06/15/2015	22:02
15	F9M33	1515542015	DGB17F15	06/15/2015	22:32
16	F9M34	1515542016	DGB18F16	06/15/2015	23:01
17	F9M35	1515542017	DGB19F17	06/15/2015	23:31
18	SSTD0.4D1	SSTD0.4D1	DGB20SP4	06/16/2015	00:01
19					
20					
21					

5B - FORM V SV
SEMIVOLATILE ORGANIC SIM INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.: SSTD0.4D1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab File ID: DGB20SP4 DFTPP Injection Date: 06/16/2015

Instrument ID: 5975-D DFTPP Injection Time: 00:01

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	SSTD0.4D1	SSTD0.4D1	DGB20SP4	06/16/2015	00:01
02	F9M37	1515542018	DGB22F18	06/16/2015	01:00
03	F9M38	1515542019	DGB23F19	06/16/2015	01:29
04	F9M39	1515542020	DGB24F20	06/16/2015	01:59
05	F9M40	1515542021	DGB25F21	06/16/2015	02:28
06	F9M41	1515542022	DGB26F22	06/16/2015	02:58
07	SSTD0.4D2	SSTD0.4D2	DGB27SP4	06/16/2015	03:28
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
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.: F9M21

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4DB Date Analyzed: 06/15/2015

Lab File ID (Standard): DGB01SP4 Time Analyzed: 15:02

Instrument ID: 5975-D

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD					236119		6.06		152944		8.72	
	UPPER LIMIT					472238		6.56		305888		9.22	
	LOWER LIMIT					118060		5.56		76472		8.22	
	EPA SAMPLE NO.												
01	SBLK93					187221		6.06		137158		8.72	
02	F9M21					224430		6.06		141087		8.72	
03	F9M22					243978		6.06		158507		8.72	
04	F9M23					239016		6.06		158307		8.72	
05	F9M24					237413		6.06		153813		8.72	
06	F9M25					202150		6.06		132025		8.72	
07	F9M26					206591		6.06		132837		8.72	
08	F9M27					199036		6.06		132726		8.72	
09	F9M28					206893		6.06		136498		8.72	
10	F9M29					197569		6.06		130933		8.72	
11	F9M30					204801		6.06		136002		8.72	
12	F9M31					197772		6.06		130182		8.72	
13	F9M32					206825		6.06		135285		8.72	
14	F9M33					203034		6.06		135069		8.72	
15	F9M34					201996		6.06		132009		8.72	
16	F9M35					196312		6.06		130341		8.72	
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.: F9M21

EPA Sample No.(SSTD0.4##): SSTD0.4DB Date Analyzed: 06/15/2015

Lab File ID (Standard): DGB01SP4 Time Analyzed: 15:02

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		272281		11.36		295425		15.51		272680		18.01	
	UPPER LIMIT		544562		11.86		590850		16.01		545360		18.51	
	LOWER LIMIT		136141		10.86		147713		15.01		136340		17.51	
	EPA SAMPLE NO.													
01	SBLK93		237916		11.36		246266		15.51		264194		18.00	
02	F9M21		246011		11.36		266391		15.51		258487		18.00	
03	F9M22		280677		11.36		314317		15.51		305153		18.00	
04	F9M23		284997		11.36		326676		15.51		308058		18.01	
05	F9M24		279942		11.36		311018		15.51		305426		18.00	
06	F9M25		235167		11.36		265851		15.51		248337		18.00	
07	F9M26		234113		11.36		262822		15.51		248198		18.00	
08	F9M27		233879		11.35		264166		15.51		262867		18.00	
09	F9M28		240197		11.36		266619		15.51		266469		18.00	
10	F9M29		229201		11.35		253465		15.51		256748		18.00	
11	F9M30		239493		11.35		262054		15.51		267625		18.00	
12	F9M31		231697		11.36		255379		15.51		256542		18.00	
13	F9M32		239649		11.35		266551		15.51		255949		17.99	
14	F9M33		236835		11.35		262064		15.51		265128		18.00	
15	F9M34		235013		11.35		258113		15.51		256622		18.00	
16	F9M35		234294		11.35		258898		15.51		239106		17.99	
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.: F9M21

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4D1 Date Analyzed: 06/16/2015

Lab File ID (Standard): DGB20SP4 Time Analyzed: 00:01

Instrument ID: 5975-D

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD					212362		6.06		134800		8.72	
	UPPER LIMIT					424724		6.56		269600		9.22	
	LOWER LIMIT					106181		5.56		67400		8.22	
	EPA SAMPLE NO.												
01	F9M37					186946		6.06		119323		8.72	
02	F9M38					210355		6.06		137284		8.72	
03	F9M39					199325		6.06		133745		8.72	
04	F9M40					206775		6.06		133686		8.72	
05	F9M41					213497		6.06		155473		8.72	
06													
07													
08													
09													
10													
11													
12													
13													
14													
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.: F9M21

EPA Sample No.(SSTD0.4##): SSTD0.4D1 Date Analyzed: 06/16/2015

Lab File ID (Standard): DGB20SP4 Time Analyzed: 00:01

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	240084		11.35		259737		15.51		253922		18.00	
	UPPER LIMIT	480168		11.85		519474		16.01		507844		18.50	
	LOWER LIMIT	120042		10.85		129869		15.01		126961		17.50	
	EPA SAMPLE NO.												
01	F9M37	209492		11.35		226056		15.51		217200		18.00	
02	F9M38	244033		11.35		267852		15.51		263228		18.00	
03	F9M39	238102		11.35		259539		15.51		259435		17.99	
04	F9M40	236964		11.35		265502		15.51		257766		17.99	
05	F9M41	308791		11.35		319966		15.51		311473		17.99	
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.

F9M21

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542001

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DGB05F01

Extraction: (Type) SONC

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 30.0

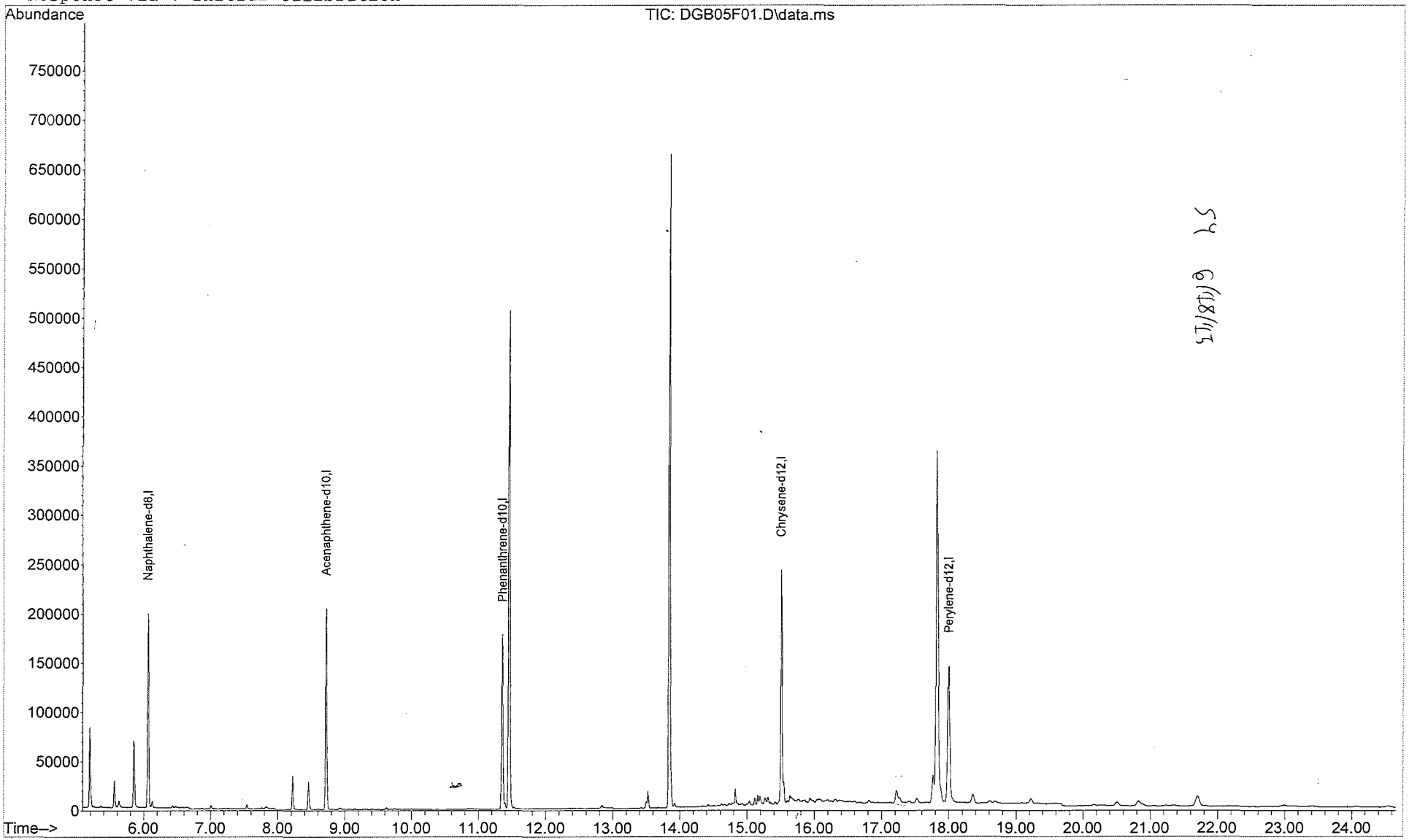
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	120	U
91-57-6	2-Methylnaphthalene	120	U
208-96-8	Acenaphthylene	120	U
83-32-9	Acenaphthene	120	U
86-73-7	Fluorene	120	U
87-86-5	Pentachlorophenol	250	U
85-01-8	Phenanthrene	120	U
120-12-7	Anthracene	120	U
206-44-0	Fluoranthene	120	U
129-00-0	Pyrene	31.	J
56-55-3	Benzo(a)anthracene	120	U
218-01-9	Chrysene	29.	J
205-99-2	Benzo(b)fluoranthene	26.	J
207-08-9	Benzo(k)fluoranthene	120	U
50-32-8	Benzo(a)pyrene	120	U
193-39-5	Indeno(1,2,3-cd)pyrene	25.	J
53-70-3	Dibenzo(a,h)anthracene	120	U
191-24-2	Benzo(g,h,i)perylene	43.	J

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB05F01.D Vial: 4
Acq On : 06/15/2015 16:33 Operator: SY
Sample : 1515542001 F9M21 (30) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 17 14:56:02 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

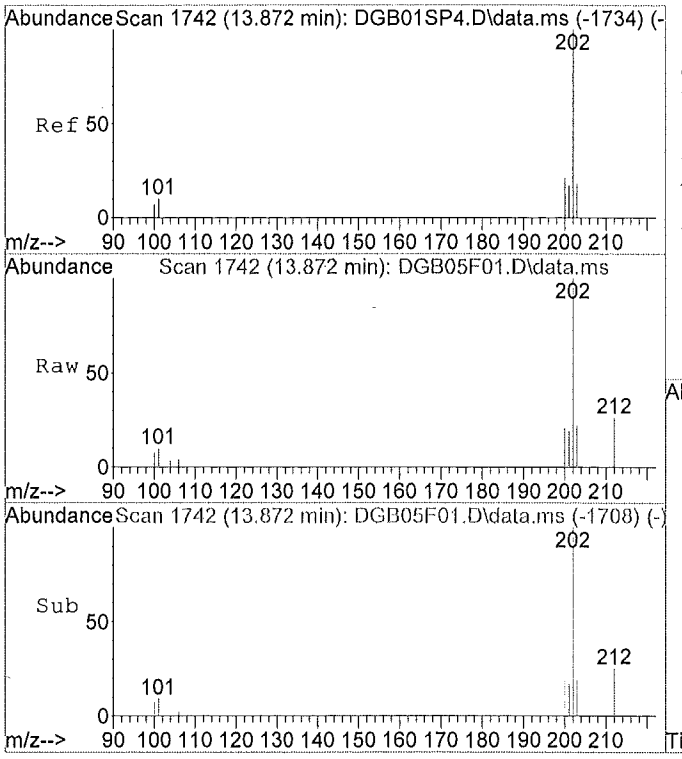
Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB05F01.D Vial: 4
Acq On : 06/15/2015 16:33 Operator: SY
Sample : 1515542001 F9M21 (30) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 17 14:56:02 2015 Results File: DSOM_SIMJ2.RES

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	6.06	136	224430	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	141087	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	246011	0.40 ug/ml	
15) Chrysene-d12	15.51	240	266391	0.40 ug/ml	
19) Perylene-d12	18.00	264	258487	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	4115	0.011ug/mL	
13) Fluoranthene-d10	13.49	212	7799	0.012ug/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	13.87	202	21189	0.025ug/ml m	63
17) Benzo(a)anthracene	0.00	228		Not Detected	
18) Chrysene	15.54	228	17619	0.023ug/ml	86
20) Benzo(b)fluoranthene	17.22	252	17396	0.022ug/ml	97
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	20.83	276	13983	0.021ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	21.70	276	26746	0.035ug/ml	72

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

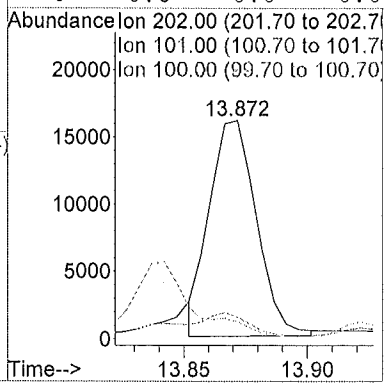
: 08645

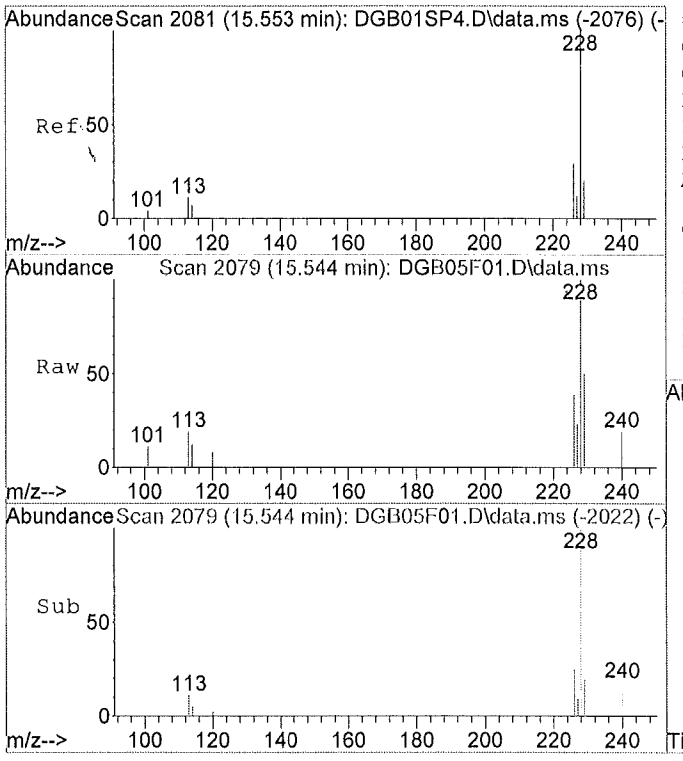


#16
Pyrene
Concen: 0.03 ug/ml m
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DGB05F01.D
Acq: 06/15/2015 16:33

Tgt Ion:202 Resp: 21189

Ion	Ratio	Lower	Upper
202	100		
101	17.4	10.6	19.6
100	45.7	9.4	17.4#
0	0.0	0.0	0.0

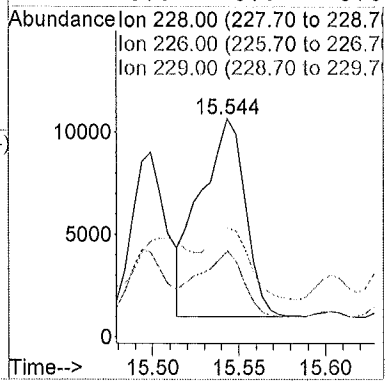


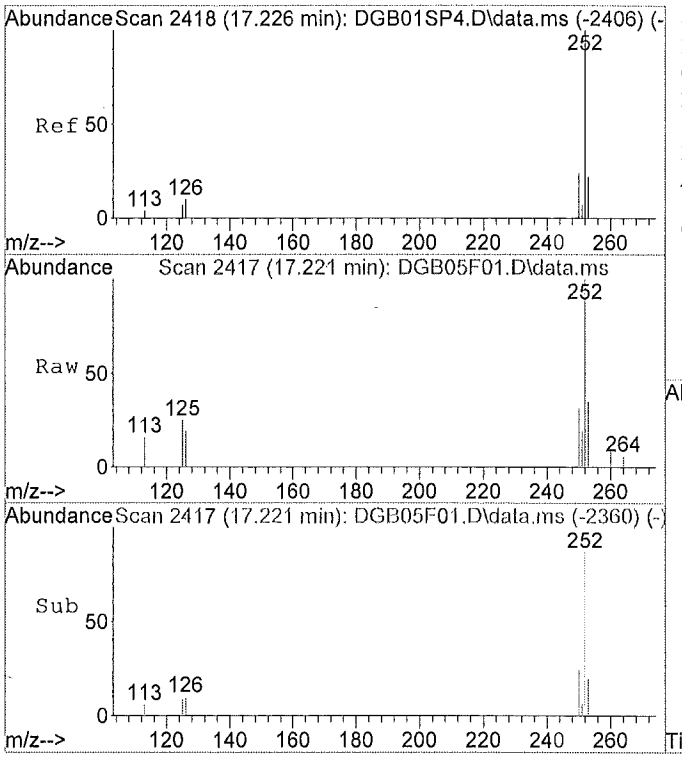


#18
Chrysene
Concen: 0.02 ug/ml
RT: 15.54 min Scan# 2079
Delta R.T. -0.01 min
Lab File: DGB05F01.D
Acq: 06/15/2015 16:33

Tgt Ion:228 Resp: 17619

Ion	Ratio	Lower	Upper
228	100		
226	33.3	19.7	36.7
229	29.9	14.5	26.9#
0	0.0	0.0	0.0

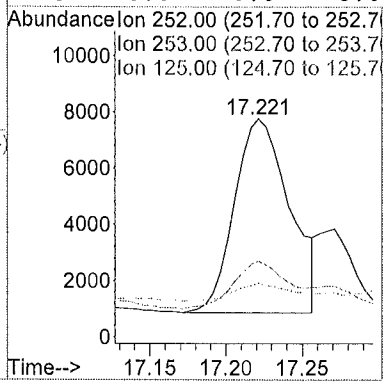


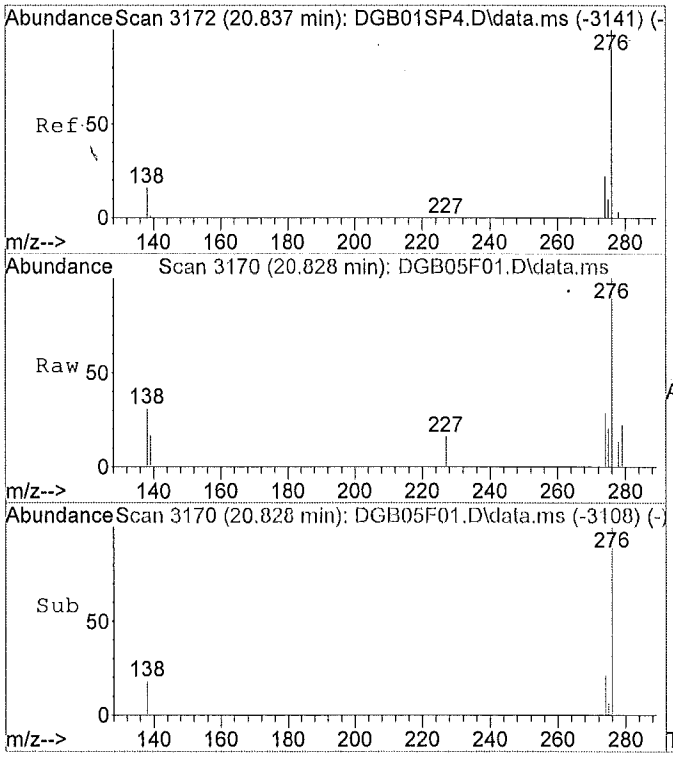


#20
Benzo(b)fluoranthene
Concen: 0.02 ug/ml
RT: 17.22 min Scan# 2417
Delta R.T. -0.01 min
Lab File: DGB05F01.D
Acq: 06/15/2015 16:33

Tgt Ion:252 Resp: 17396

Ion	Ratio	Lower	Upper
252	100		
253	23.3	15.3	28.3
125	9.7	0.0	0.0#
0	0.0	0.0	0.0

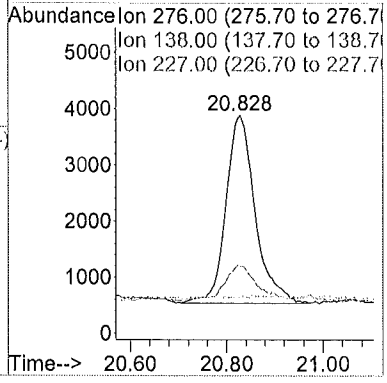


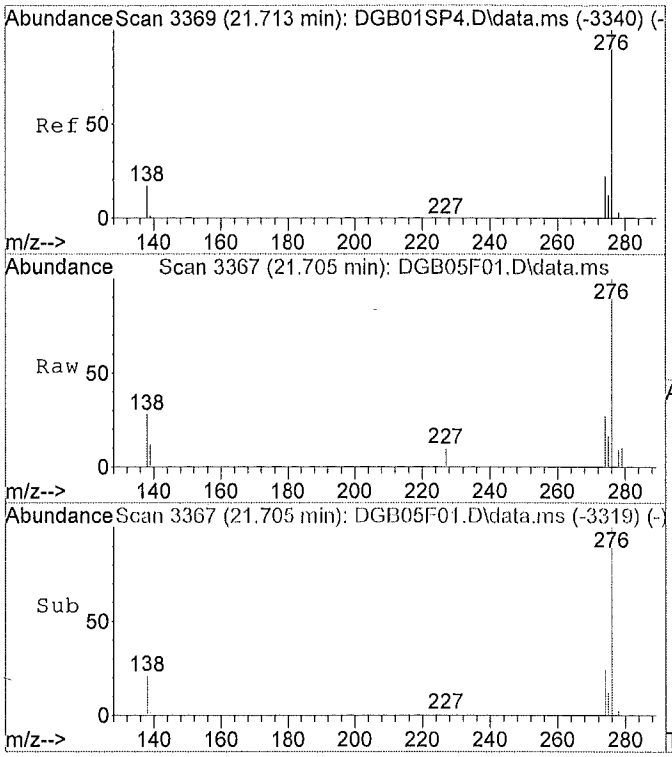


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.02 ug/ml
RT: 20.83 min Scan# 3170
Delta R.T. -0.02 min
Lab File: DGB05F01.D
Acq: 06/15/2015 16:33

Tgt Ion:276 Resp: 13983

Ion	Ratio	Lower	Upper
276	100		
138	16.7	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

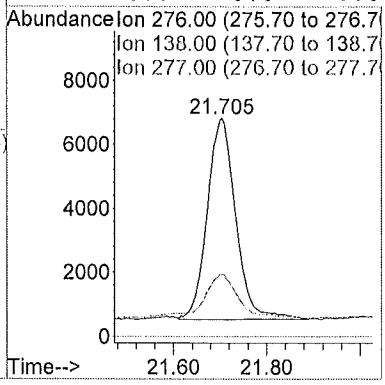


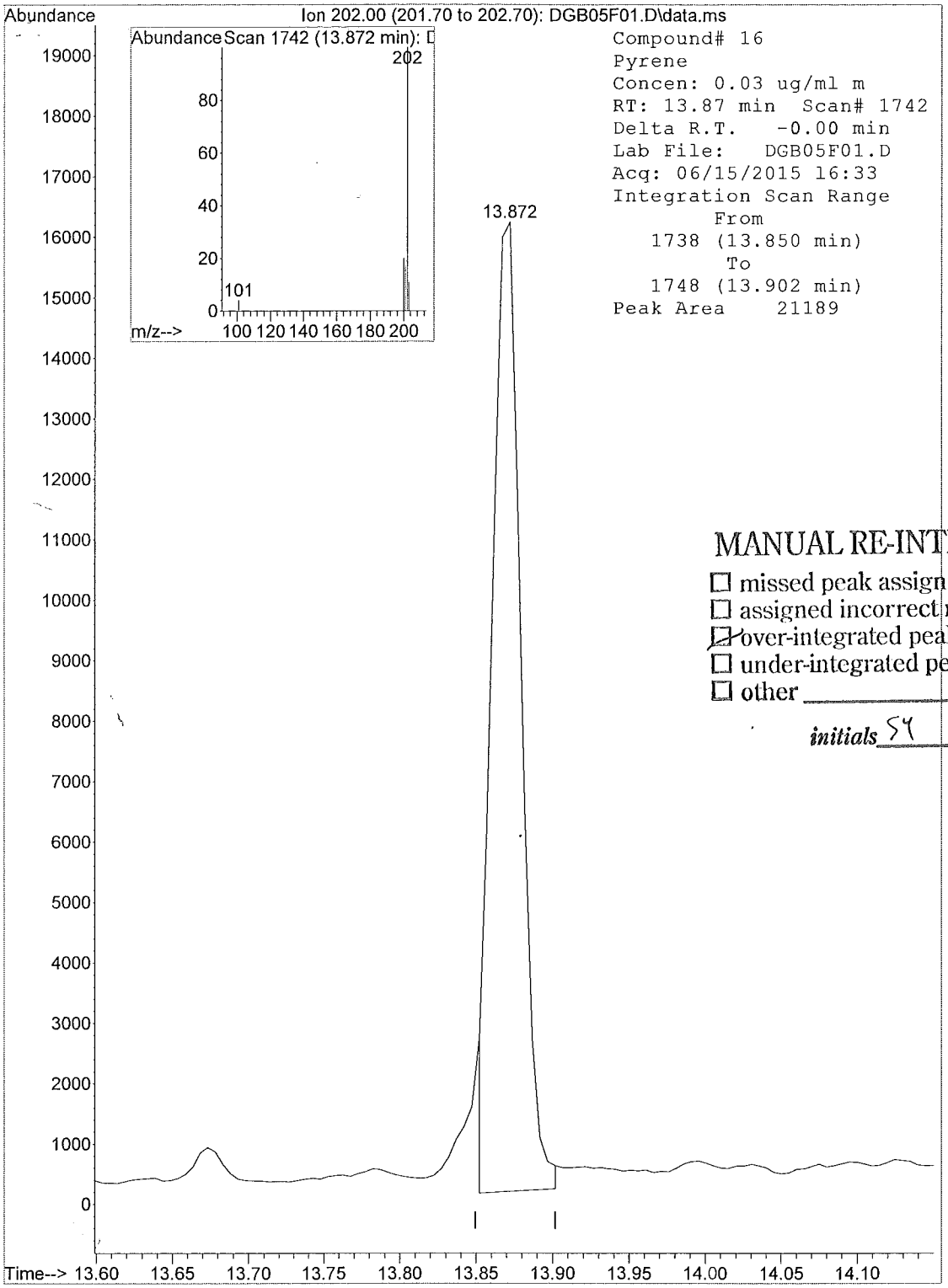


#25
Benzo(g,h,i)perylene
Concen: 0.04 ug/ml
RT: 21.70 min Scan# 3367
Delta R.T. -0.02 min
Lab File: DGB05F01.D
Acq: 06/15/2015 16:33

Tgt Ion:276 Resp: 26746

Ion	Ratio	Lower	Upper
276	100		
138	19.8	16.2	30.0
277	0.0	16.5	30.7#
0	0.0	0.0	0.0





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* 6/18/15

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M22

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542002

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DGB06F02

Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 10.0

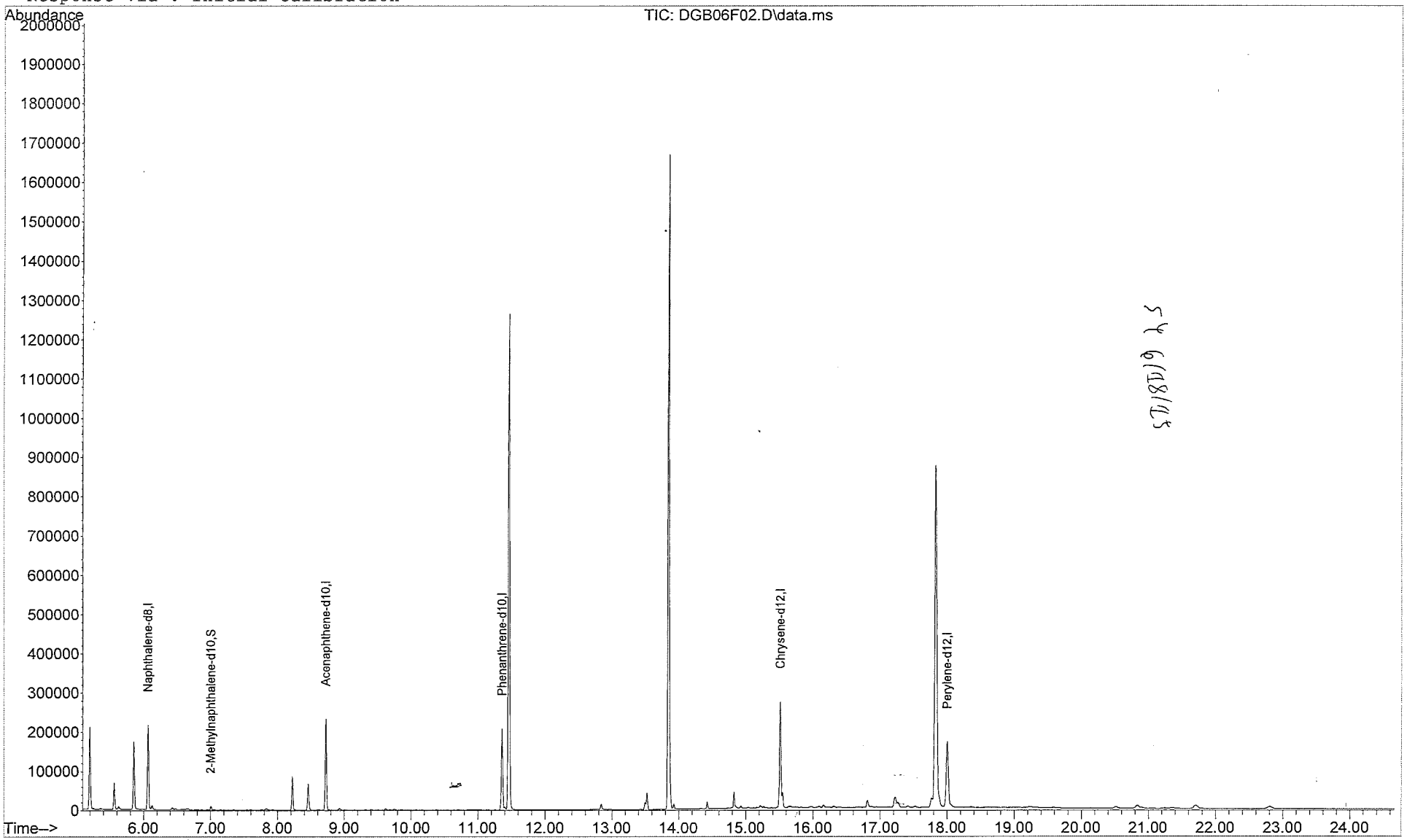
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	38.	U
91-57-6	2-Methylnaphthalene	38.	U
208-96-8	Acenaphthylene	38.	U
83-32-9	Acenaphthene	38.	U
86-73-7	Fluorene	38.	U
87-86-5	Pentachlorophenol	76.	U
85-01-8	Phenanthrene	38.	U
120-12-7	Anthracene	38.	U
206-44-0	Fluoranthene	14.	J
129-00-0	Pyrene	16.	J
56-55-3	Benzo(a)anthracene	12.	J
218-01-9	Chrysene	14.	J
205-99-2	Benzo(b)fluoranthene	15.	J
207-08-9	Benzo(k)fluoranthene	38.	U
50-32-8	Benzo(a)pyrene	9.1	J
193-39-5	Indeno(1,2,3-cd)pyrene	9.9	J
53-70-3	Dibenzo(a,h)anthracene	38.	U
191-24-2	Benzo(g,h,i)perylene	9.5	J

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB06F02.D Vial: 5
Acq On : 06/15/2015 17:03 Operator: SY
Sample : 1515542002 F9M22 (10) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 17 14:56:48 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\15JUN15\DGB06F02.D Vial: 5
Acq On : 06/15/2015 17:03 Operator: SY
Sample : 1515542002 F9M22 (10) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 17 14:56:48 2015 Results File: DSOM_SIMJ2.RES

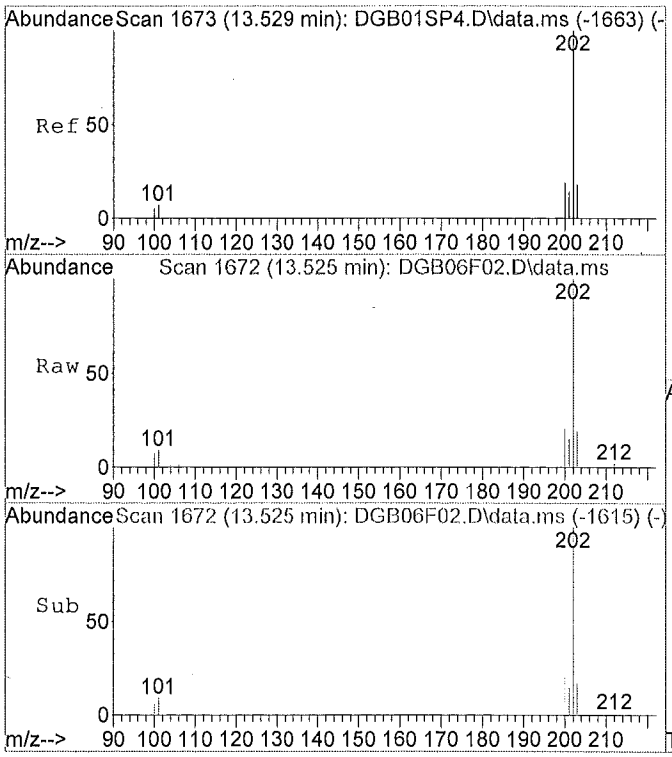
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Qvalue
1) Naphthalene-d8	6.06	136	243978	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	158507	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	280677	0.40 ug/ml	
15) Chrysene-d12	15.51	240	314317	0.40 ug/ml	
19) Perylene-d12	18.00	264	305153	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	9954	0.025ug/mL	
13) Fluoranthene-d10	13.43	212	763	0.001ug/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	13.52	202	34369	0.037ug/ml	88
16) Pyrene	13.87	202	41024	0.042ug/ml m	78
17) Benzo(a)anthracene	15.50	228	27386	0.033ug/ml	94
18) Chrysene	15.55	228	31545	0.036ug/ml	95
20) Benzo(b)fluoranthene	17.22	252	37594	0.040ug/ml	97
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	17.88	252	21869	0.024ug/ml	94
23) Indeno(1,2,3-c,d)pyrene	20.83	276	20632	0.026ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	21.70	276	22257	0.025ug/ml	71

6/18/15

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

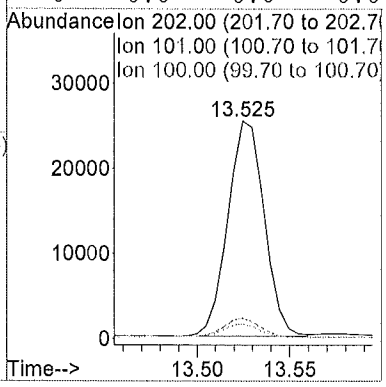
00652

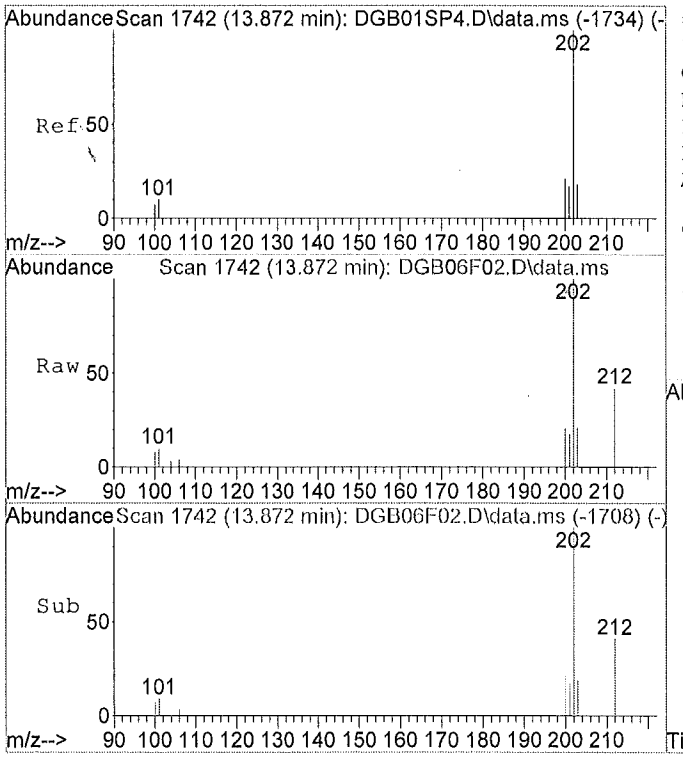


#14
Fluoranthene
Concen: 0.04 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DGB06F02.D
Acq: 06/15/2015 17:03

Tgt Ion:202 Resp: 34369

Ion	Ratio	Lower	Upper
202	100		
101	8.5	9.4	17.6#
100	7.3	0.0	0.0#
0	0.0	0.0	0.0

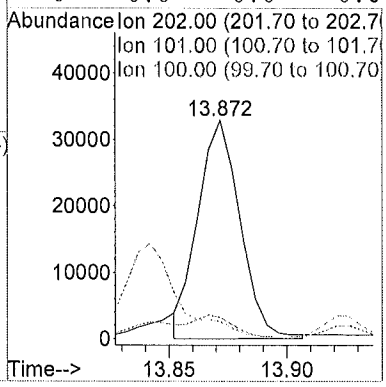


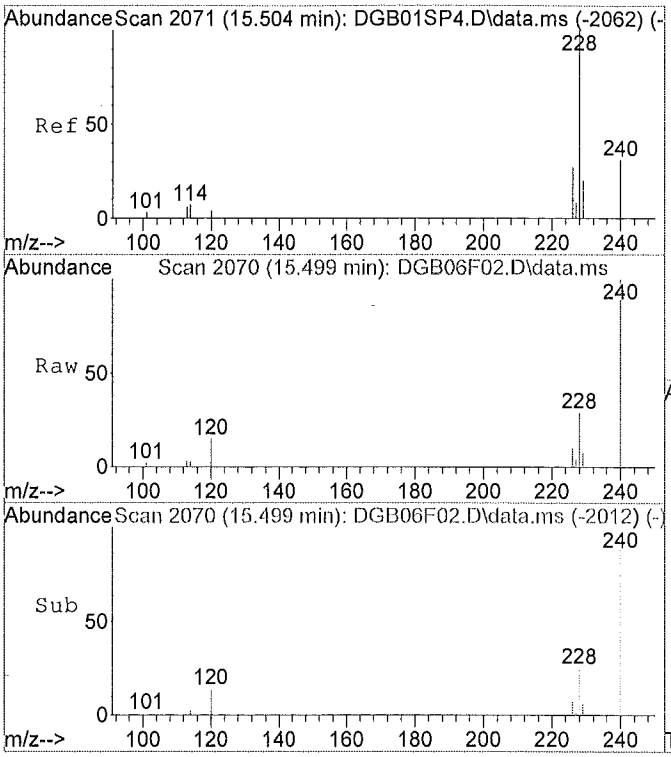


#16
Pyrene
Concen: 0.04 ug/ml m
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DGB06F02.D
Acq: 06/15/2015 17:03

Tgt Ion:202 Resp: 41024

Ion	Ratio	Lower	Upper
202	100		
101	10.2	10.6	19.6#
100	0.0	9.4	17.4#
0	0.0	0.0	0.0

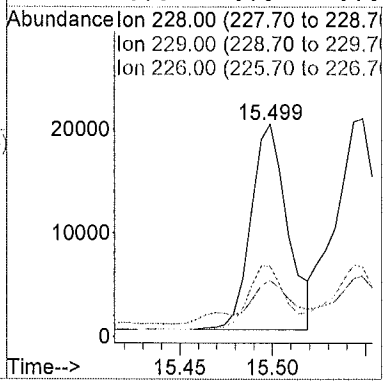


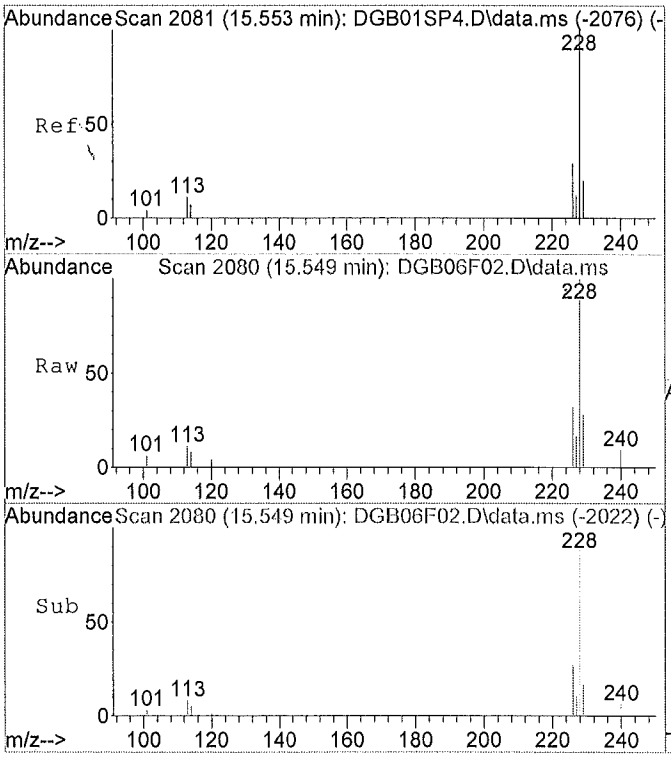


#17
Benzo(a)anthracene
Concen: 0.03 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DGB06F02.D
Acq: 06/15/2015 17:03

Tgt Ion:228 Resp: 27386

Ion	Ratio	Lower	Upper
228	100		
229	22.7	14.5	26.9
226	30.6	18.5	34.3
0	0.0	0.0	0.0

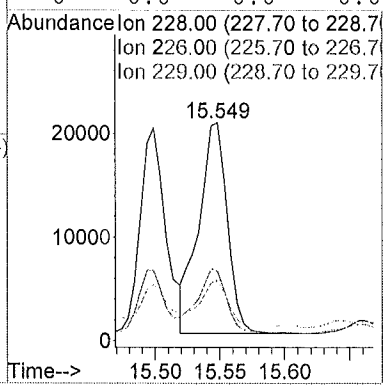


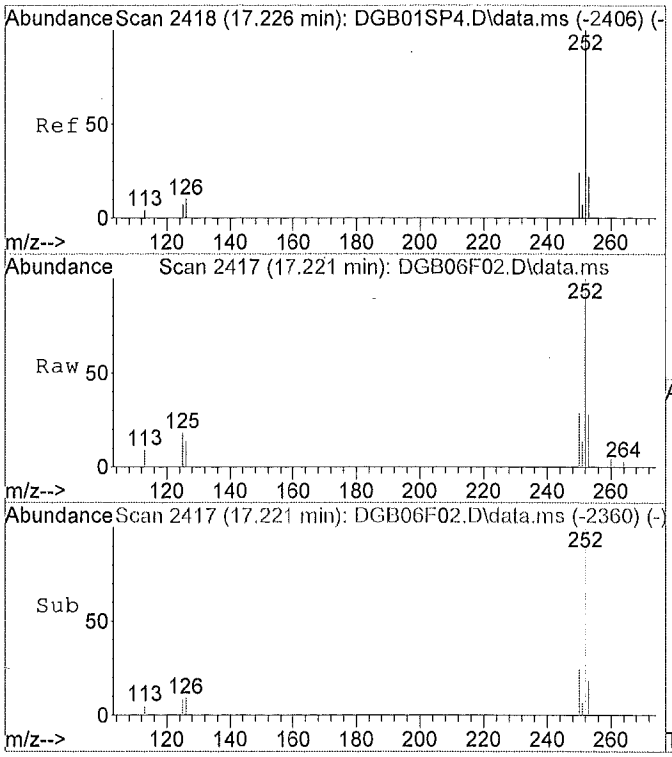


#18
Chrysene
Concen: 0.04 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DGB06F02.D
Acq: 06/15/2015 17:03

Tgt Ion:228 Resp: 31545

Ion	Ratio	Lower	Upper
228	100		
226	31.6	19.7	36.7
229	22.5	14.5	26.9
0	0.0	0.0	0.0

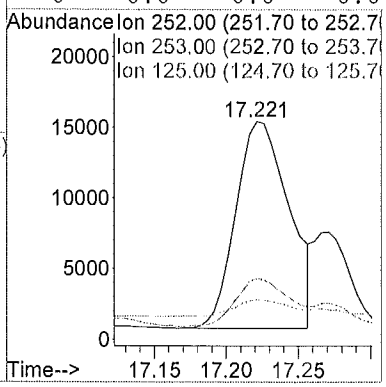


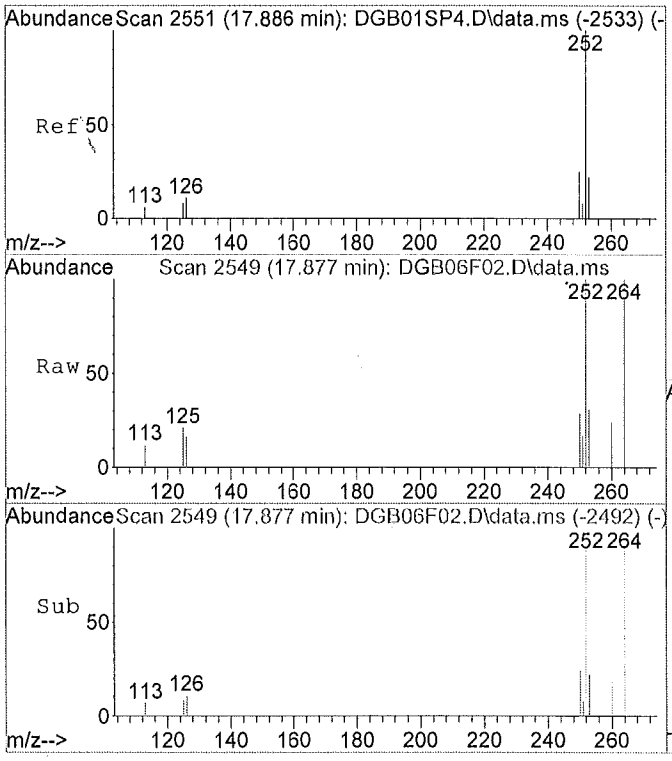


#20
Benzo(b)fluoranthene
Concen: 0.04 ug/ml
RT: 17.22 min Scan# 2417
Delta R.T. -0.01 min
Lab File: DGB06F02.D
Acq: 06/15/2015 17:03

Tgt Ion:252 Resp: 37594

Ion	Ratio	Lower	Upper
252	100		
253	23.3	15.3	28.3
125	8.5	0.0	0.0#
0	0.0	0.0	0.0

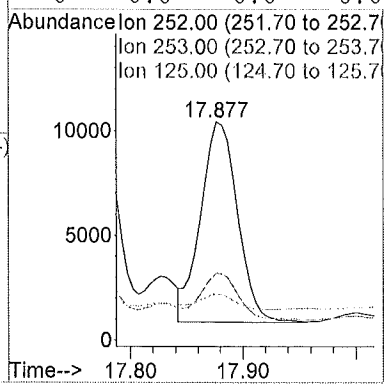


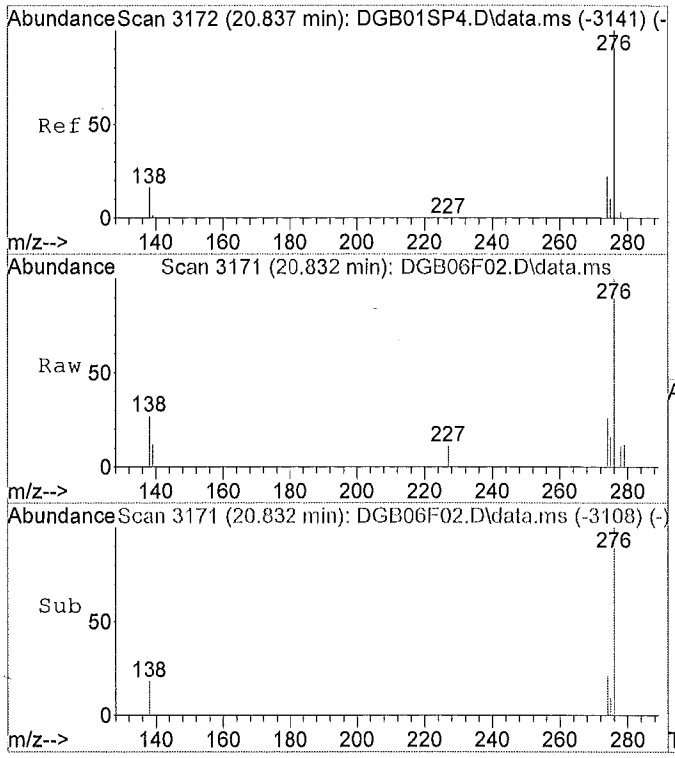


#22
Benzo(a)pyrene
Concen: 0.02 ug/ml
RT: 17.88 min Scan# 2549
Delta R.T. -0.01 min
Lab File: DGB06F02.D
Acq: 06/15/2015 17:03

Tgt Ion:252 Resp: 21869

Ion	Ratio	Lower	Upper
252	100		
253	24.3	15.0	27.8
125	7.7	0.0	0.0#
0	0.0	0.0	0.0

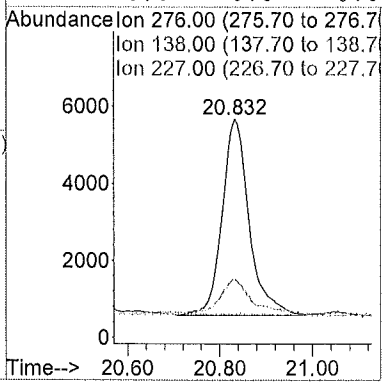


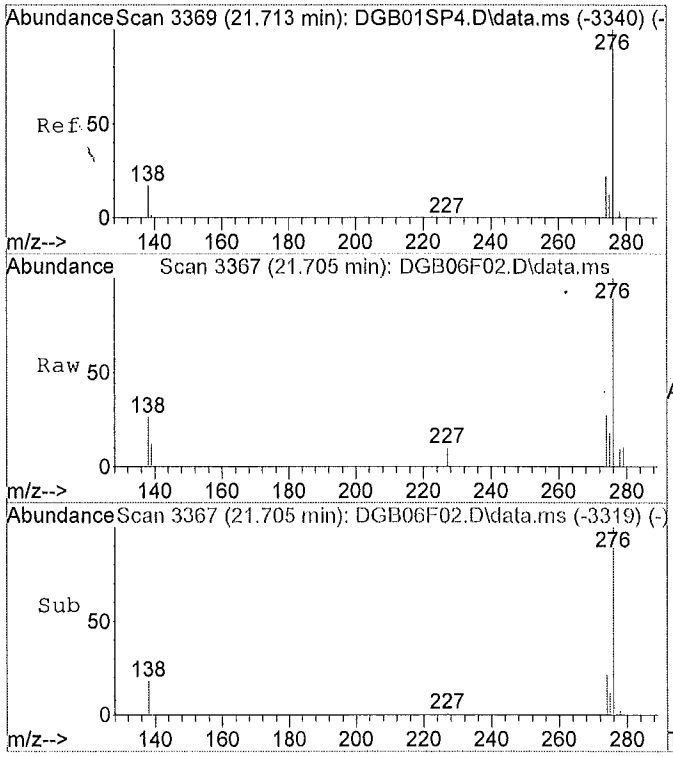


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.03 ug/ml
RT: 20.83 min Scan# 3171
Delta R.T. -0.02 min
Lab File: DGB06F02.D
Acq: 06/15/2015 17:03

Tgt Ion:276 Resp: 20632

Ion	Ratio	Lower	Upper
276	100		
138	15.4	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

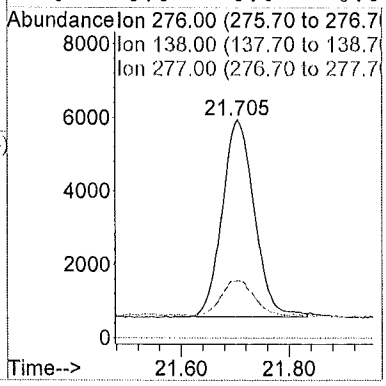




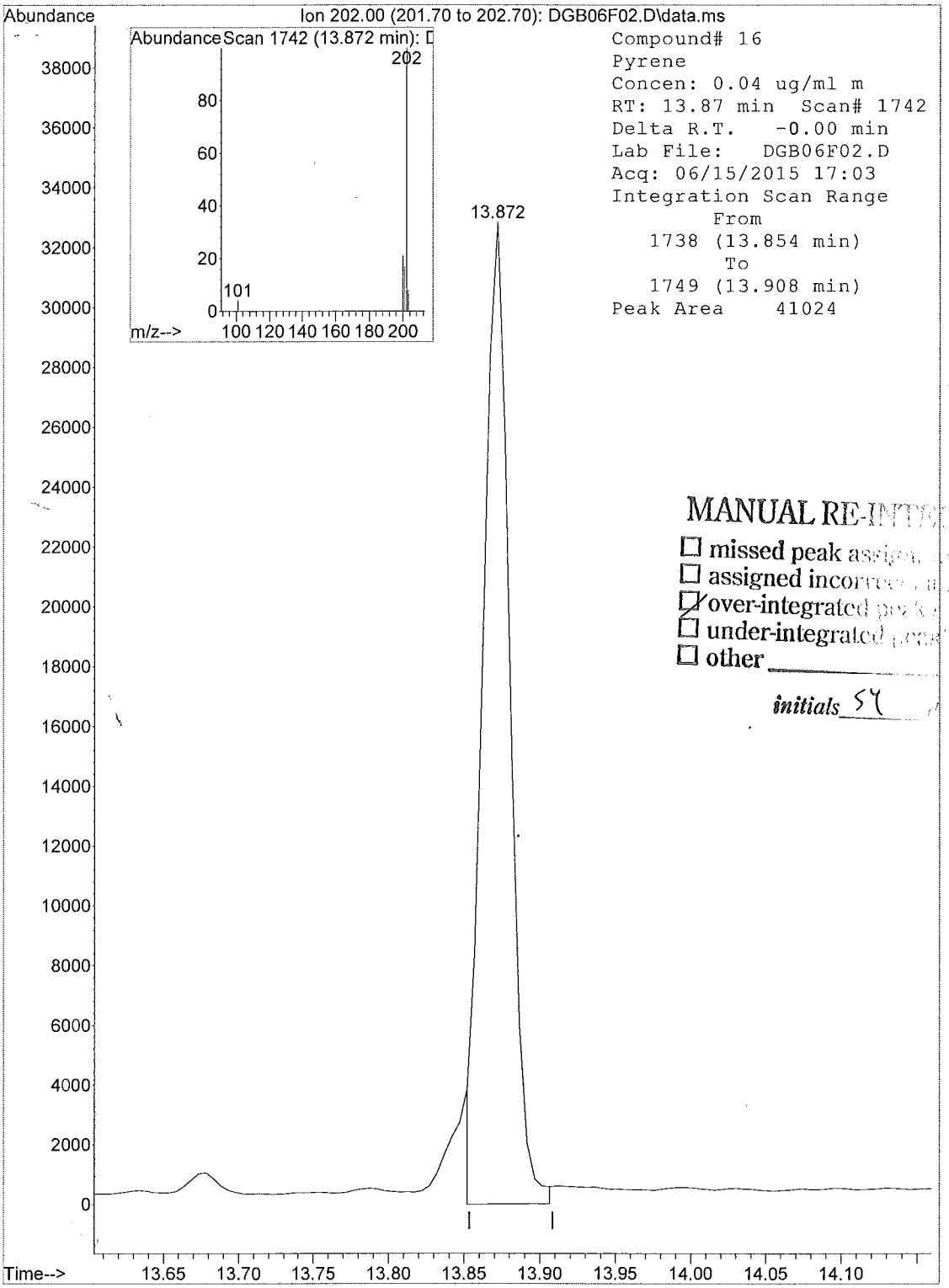
#25
Benzo(g,h,i)perylene
Concen: 0.02 ug/ml
RT: 21.70 min Scan# 3367
Delta R.T. -0.02 min
Lab File: DGB06F02.D
Acq: 06/15/2015 17:03

Tgt Ion:276 Resp: 22257

Ion	Ratio	Lower	Upper
276	100		
138	18.2	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 Pyrene



MANUAL RE-INTEGRATION

- ☐ missed peak assigned
- ☐ assigned incorrect peak top
- ☑ over-integrated peak
- ☐ under-integrated peak
- ☐ other _____

initials SY 6/19/15

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M23

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542003

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DGB07F03

Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 200.0

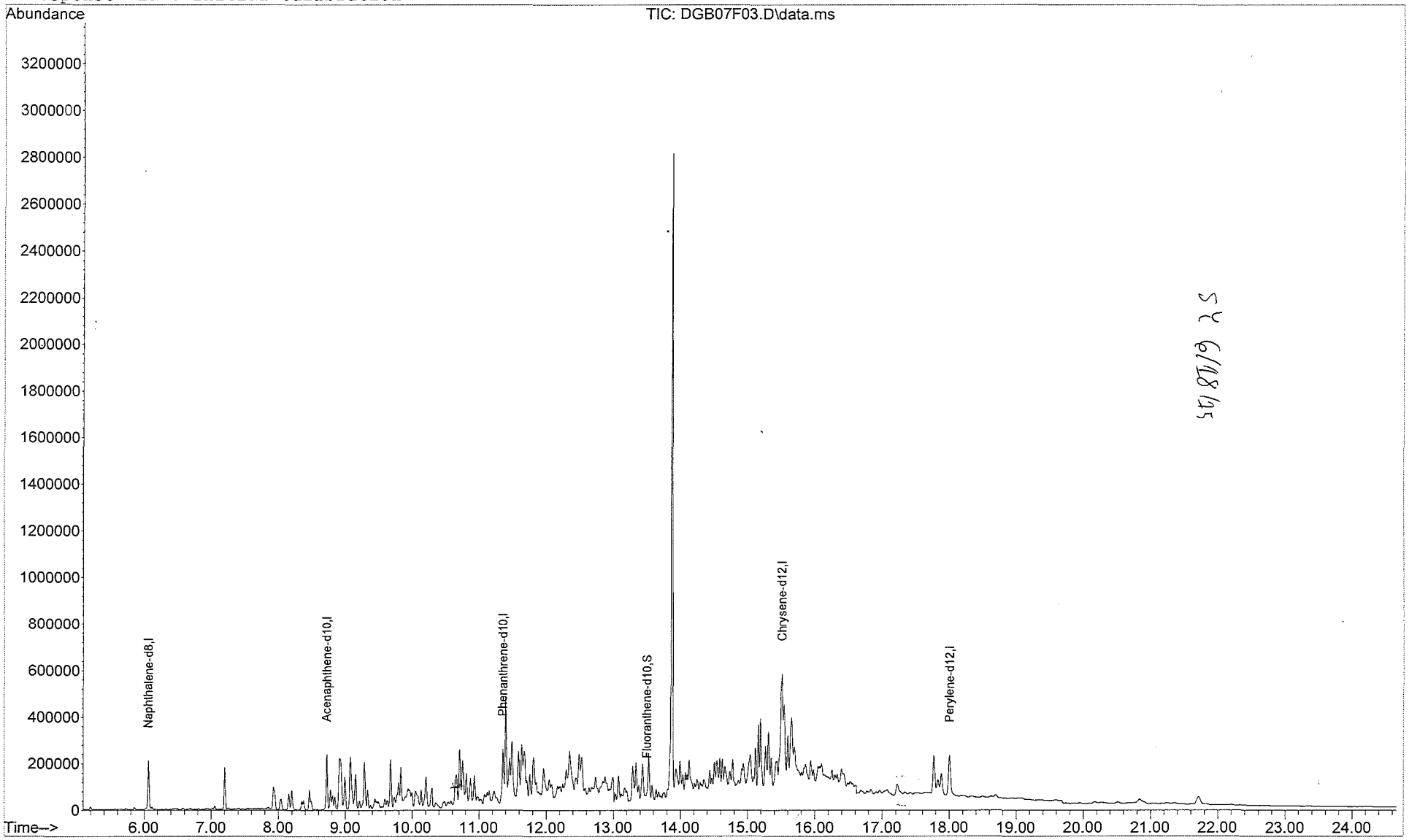
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	770	U
91-57-6	2-Methylnaphthalene	160	J
208-96-8	Acenaphthylene	770	U
83-32-9	Acenaphthene	730	J
86-73-7	Fluorene	1500	
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	4800	
120-12-7	Anthracene	2100	
206-44-0	Fluoranthene	1400	
129-00-0	Pyrene	16000	E
56-55-3	Benzo(a)anthracene	1600	
218-01-9	Chrysene	1900	
205-99-2	Benzo(b)fluoranthene	510	J
207-08-9	Benzo(k)fluoranthene	770	U
50-32-8	Benzo(a)pyrene	940	
193-39-5	Indeno(1,2,3-cd)pyrene	470	J
53-70-3	Dibenzo(a,h)anthracene	770	U
191-24-2	Benzo(g,h,i)perylene	720	J

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB07F03.D Vial: 6
Acq On : 06/15/2015 17:33 Operator: SY
Sample : 1515542003 F9M23 (200) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 17 14:57:46 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

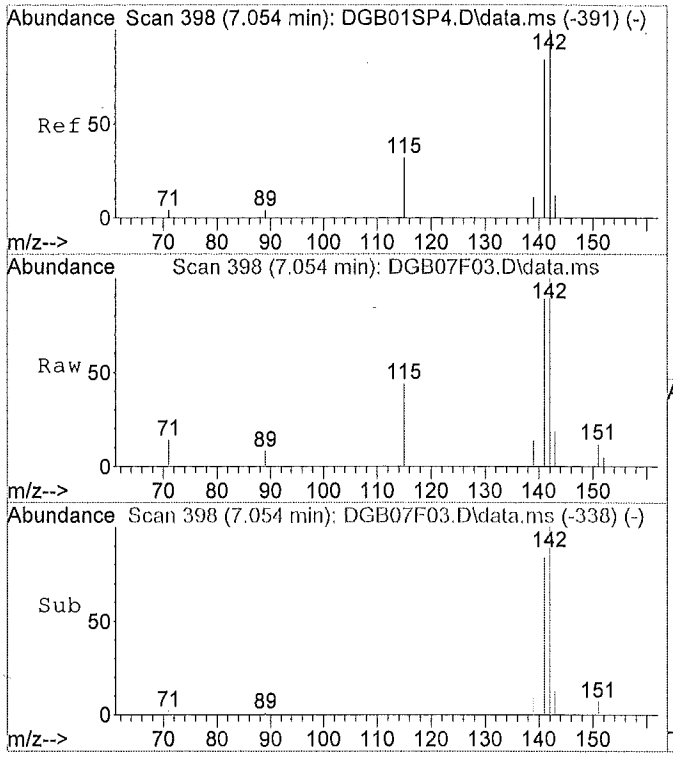
Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB07F03.D Vial: 6
Acq On : 06/15/2015 17:33 Operator: SY
Sample : 1515542003 F9M23 (200) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 17 14:57:46 2015 Results File: DSOM_SIMJ2.RES

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	6.06	136	239016	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	158307	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	284997	0.40 ug/ml	
15) Chrysene-d12	15.51	240	326676	0.40 ug/ml	
19) Perylene-d12	18.01	264	308058	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	919	0.002ug/mL	
13) Fluoranthene-d10	13.49	212	17705	0.023ug/mL	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	7.05	142	8095	0.020ug/ml	93
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	8.78	153	41699	0.094ug/ml	98
8) Fluorene	9.67	166	99671	0.194ug/ml	93
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.40	178	505006	0.615ug/ml	97
12) Anthracene	11.50	178	212565	0.266ug/ml	53
14) Fluoranthene	13.52	202	168745	0.181ug/ml	99
16) Pyrene	13.87	202	2103595	2.052ug/ml	87
17) Benzo(a)anthracene	15.50	228	178381	0.205ug/ml	39
18) Chrysene	15.55	228	223984	0.243ug/ml	61
20) Benzo(b)fluoranthene	17.23	252	63062	0.066ug/ml	67
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	17.88.	252	109925	0.120ug/ml	86
23) Indeno(1,2,3-c,d)pyrene	20.84	276	47980	0.060ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	21.71	276	83625	0.093ug/ml	69

SY 6/18/15

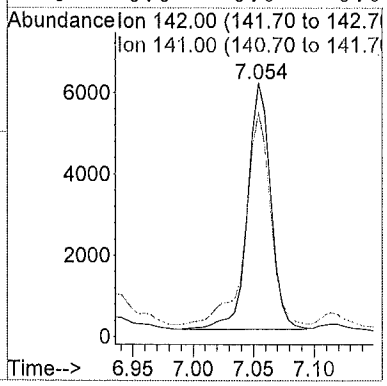
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

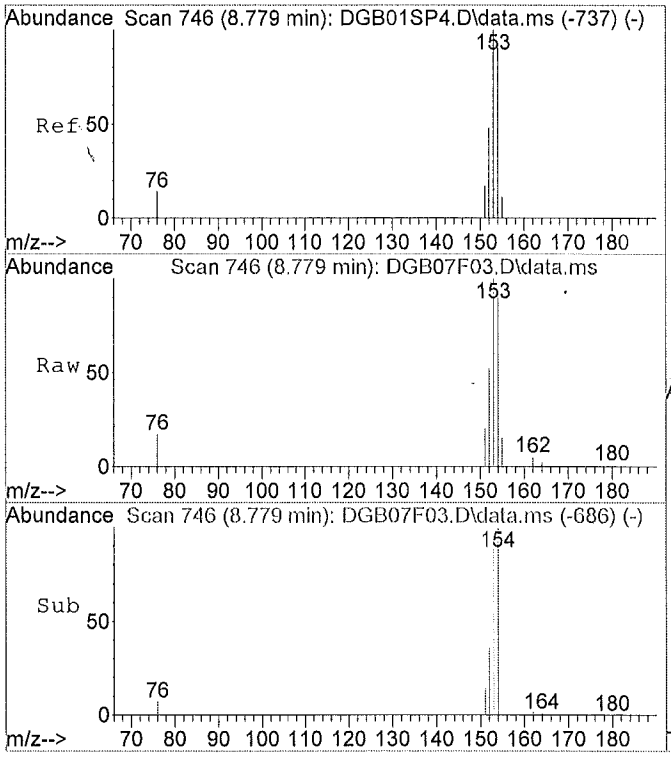


#4
2-Methylnaphthalene
Concen: 0.02 ug/ml
RT: 7.05 min Scan# 398
Delta R.T. -0.00 min
Lab File: DGB07F03.D
Acq: 06/15/2015 17:33

Tgt Ion:142 Resp: 8095

Ion	Ratio	Lower	Upper
142	100		
141	93.7	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

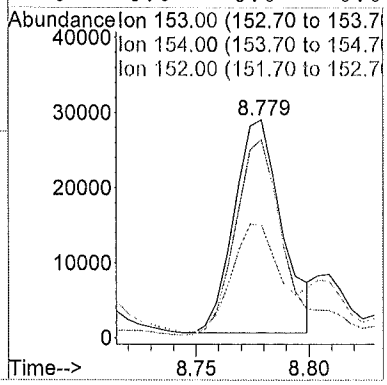


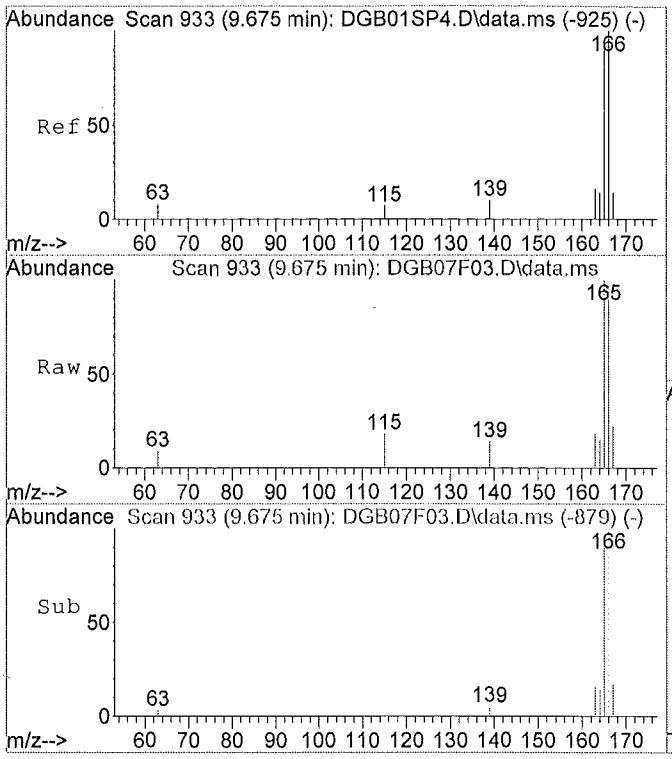


#7
Acenaphthene
Concen: 0.09 ug/ml
RT: 8.78 min Scan# 746
Delta R.T. -0.00 min
Lab File: DGB07F03.D
Acq: 06/15/2015 17:33

Tgt Ion:153 Resp: 41699

Ion	Ratio	Lower	Upper
153	100		
154	96.6	65.1	120.9
152	50.4	35.2	65.4
0	0.0	0.0	0.0

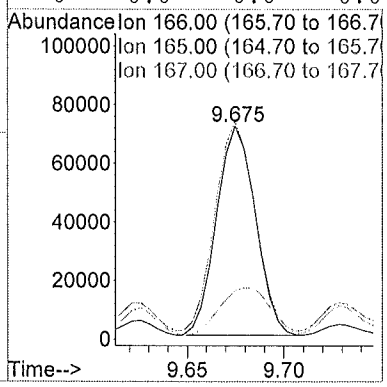


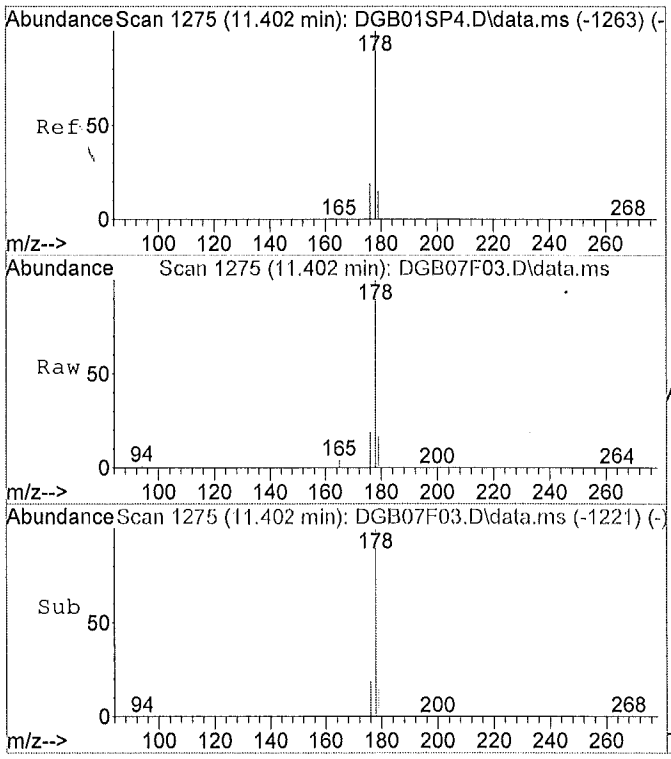


#8
Fluorene
Concen: 0.19 ug/ml
RT: 9.67 min Scan# 933
Delta R.T. -0.00 min
Lab File: DGB07F03.D
Acq: 06/15/2015 17:33

Tgt Ion:166 Resp: 99671

Ion	Ratio	Lower	Upper
166	100		
165	101.4	66.3	123.1
167	28.8	0.0	0.0#
0	0.0	0.0	0.0

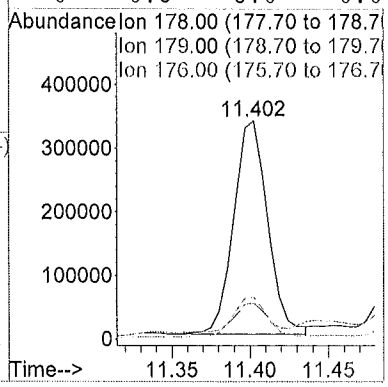


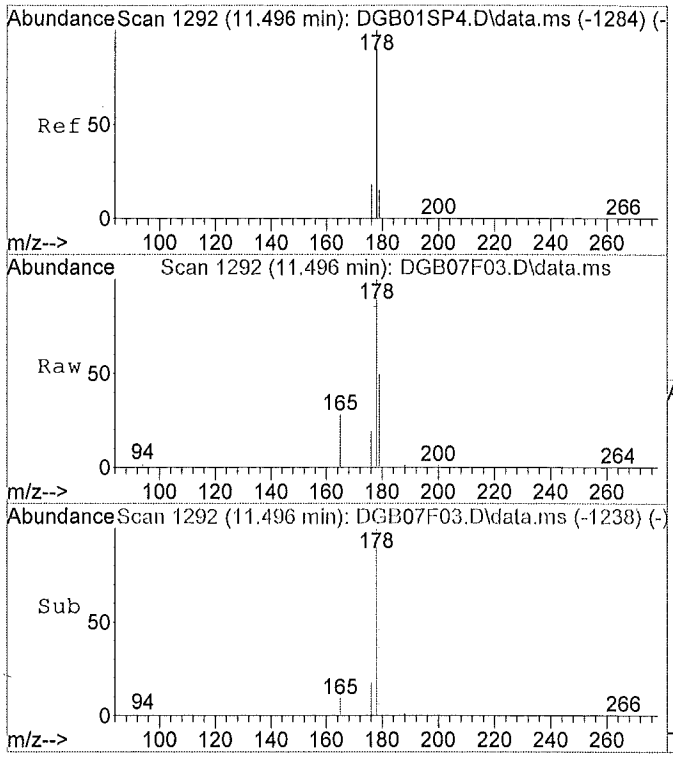


#11
Phenanthrene
Concen: 0.62 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DGB07F03.D
Acq: 06/15/2015 17:33

Tgt Ion:178 Resp: 505006

Ion	Ratio	Lower	Upper
178	100		
179	14.1	11.1	20.5
176	19.0	14.1	26.1
0	0.0	0.0	0.0

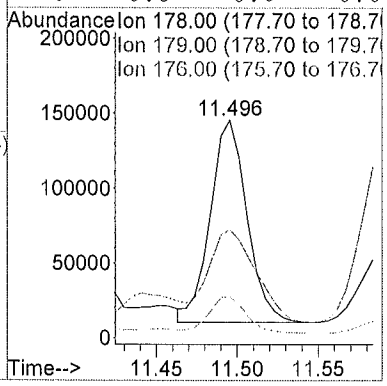


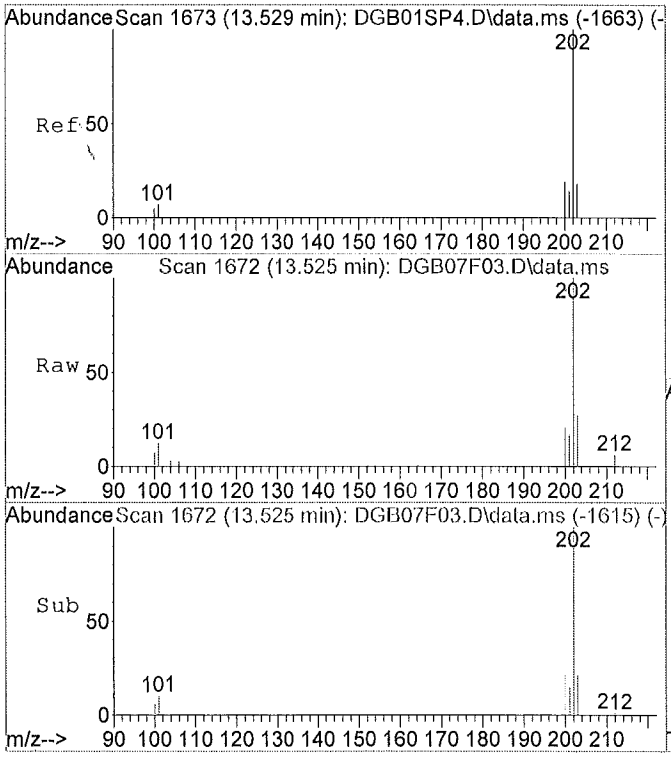


#12
Anthracene
Concen: 0.27 ug/ml
RT: 11.50 min Scan# 1292
Delta R.T. -0.01 min
Lab File: DGB07F03.D
Acq: 06/15/2015 17:33

Tgt Ion:178 Resp: 212565

Ion	Ratio	Lower	Upper
178	100		
179	60.0	11.6	21.6#
176	18.6	13.9	25.7
0	0.0	0.0	0.0

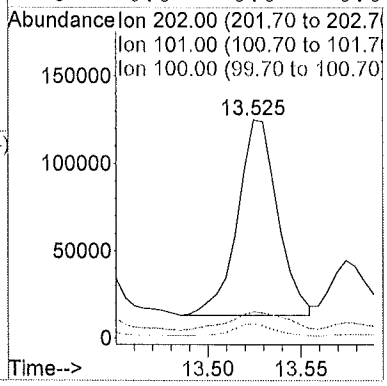


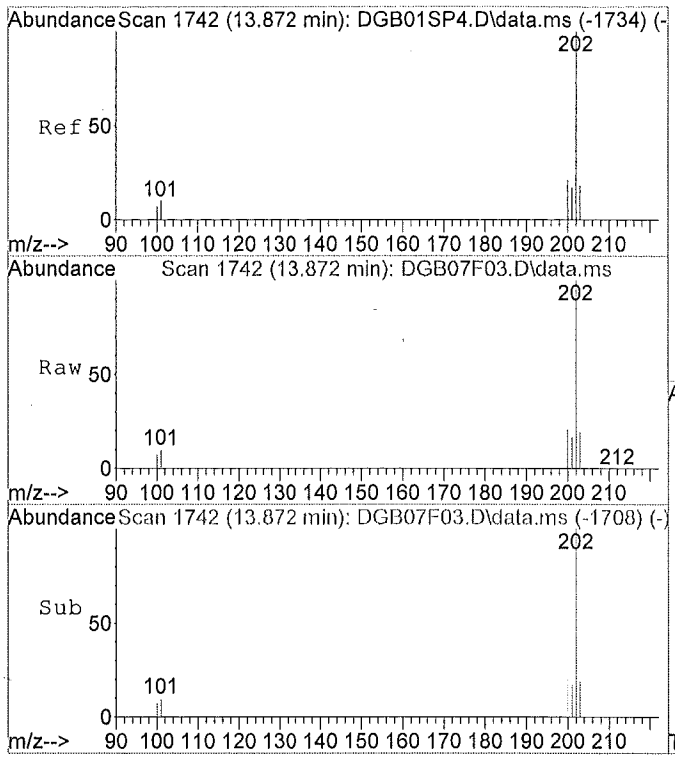


#14
Fluoranthene
Concen: 0.18 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DGB07F03.D
Acq: 06/15/2015 17:33

Tgt Ion:202 Resp: 168745

Ion	Ratio	Lower	Upper
202	100		
101	13.1	9.4	17.6
100	6.3	0.0	0.0#
0	0.0	0.0	0.0

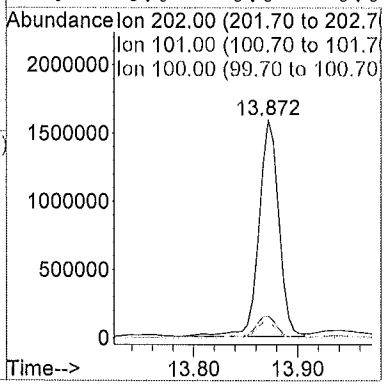


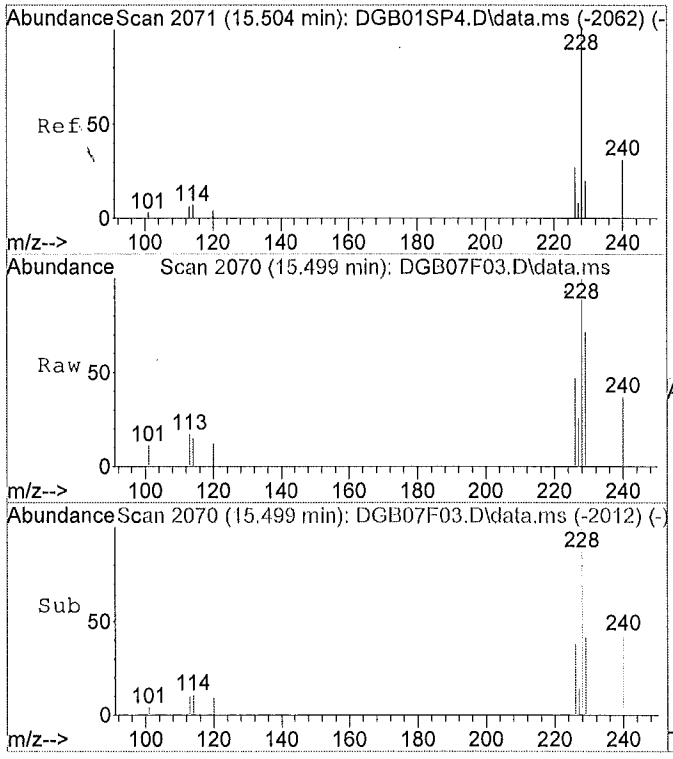


#16
Pyrene
Concen: 2.05 ug/ml
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DGB07F03.D
Acq: 06/15/2015 17:33

Tgt Ion:202 Resp: 2103595

Ion	Ratio	Lower	Upper
202	100		
101	10.3	10.6	19.6#
100	7.6	9.4	17.4#
0	0.0	0.0	0.0

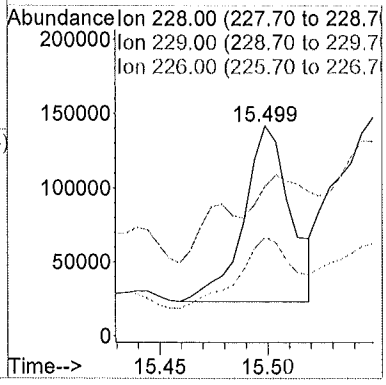


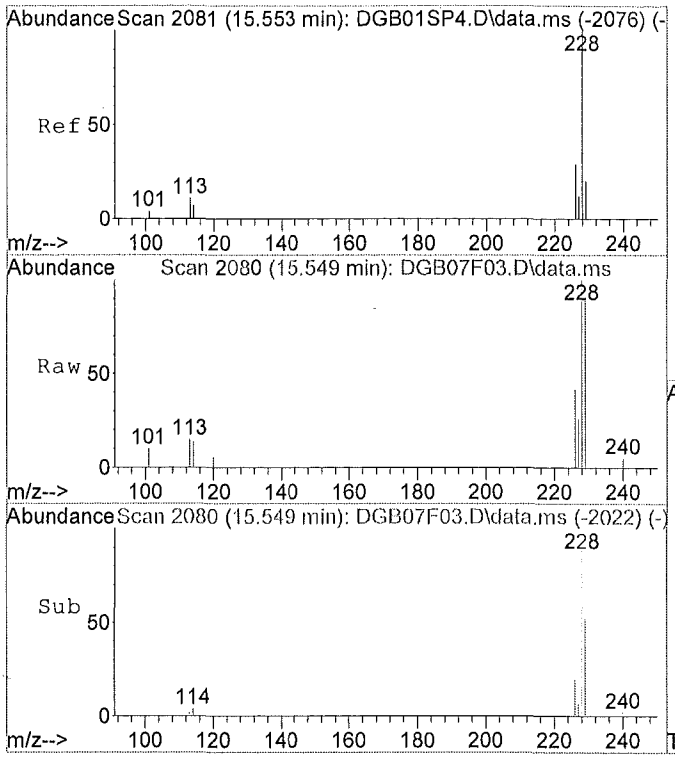


#17
Benzo(a)anthracene
Concen: 0.20 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DGB07F03.D
Acq: 06/15/2015 17:33

Tgt Ion:228 Resp: 178381

Ion	Ratio	Lower	Upper
228	100		
229	60.9	14.5	26.9#
226	47.7	18.5	34.3#
0	0.0	0.0	0.0

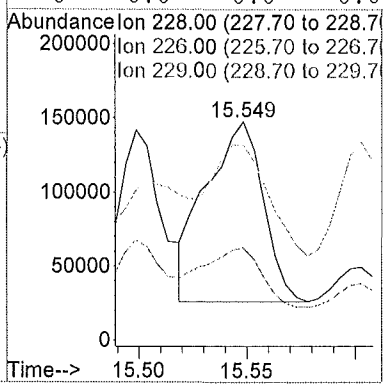


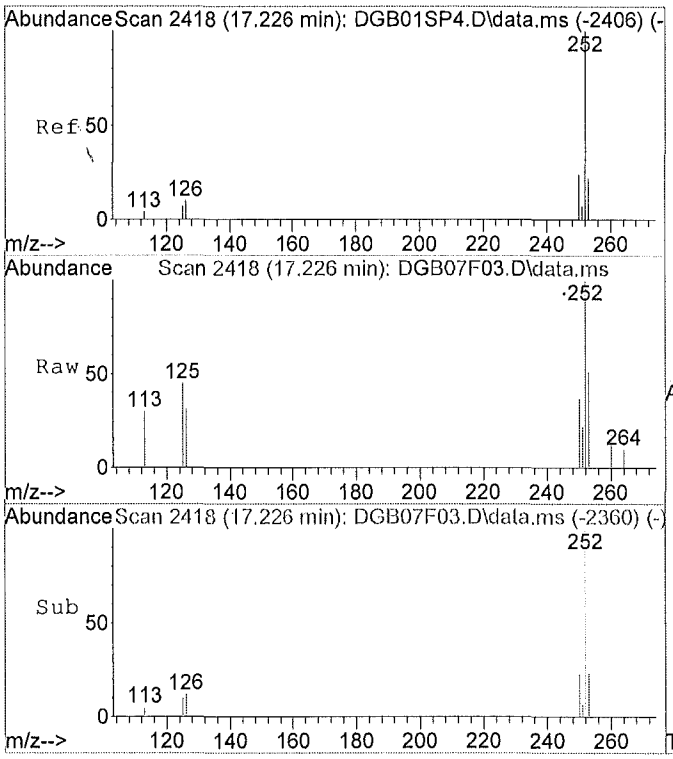


#18
Chrysene
Concen: 0.24 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DGB07F03.D
Acq: 06/15/2015 17:33

Tgt Ion:228 Resp: 223984

Ion	Ratio	Lower	Upper
228	100		
226	33.9	19.7	36.7
229	57.2	14.5	26.9#
0	0.0	0.0	0.0

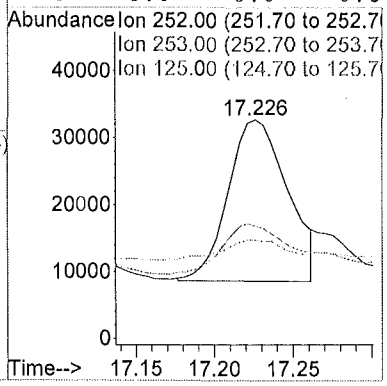


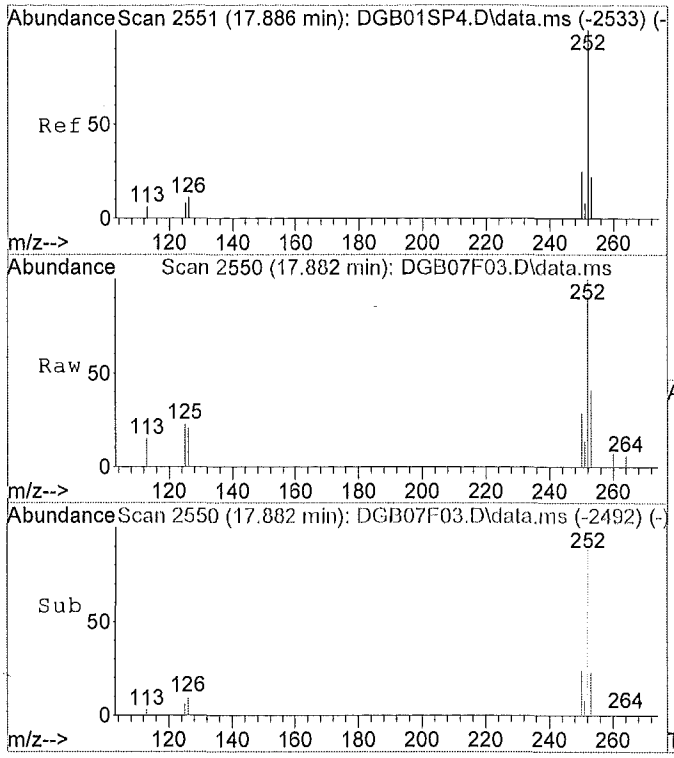


#20
Benzo(b)fluoranthene
Concen: 0.07 ug/ml m
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DGB07F03.D
Acq: 06/15/2015 17:33

Tgt Ion:252 Resp: 63062

Ion	Ratio	Lower	Upper
252	100		
253	43.4	15.3	28.3#
125	13.4	0.0	0.0#
0	0.0	0.0	0.0

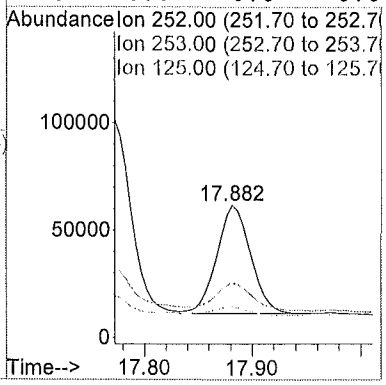


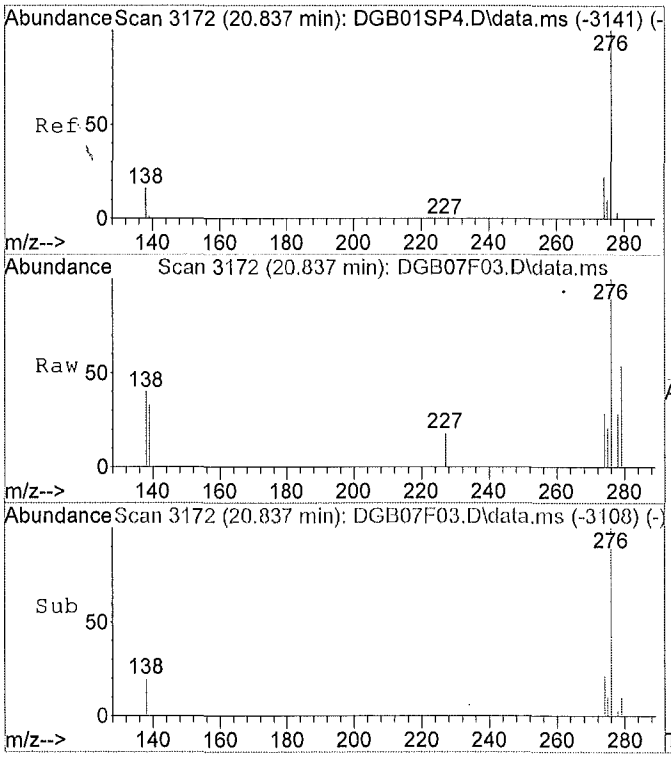


#22
Benzo(a)pyrene
Concen: 0.12 ug/ml
RT: 17.88 min Scan# 2550
Delta R.T. -0.01 min
Lab File: DGB07F03.D
Acq: 06/15/2015 17:33

Tgt Ion:252 Resp: 109925

Ion	Ratio	Lower	Upper
252	100		
253	28.2	15.0	27.8#
125	8.4	0.0	0.0#
0	0.0	0.0	0.0

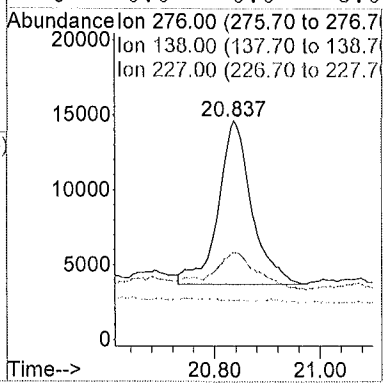


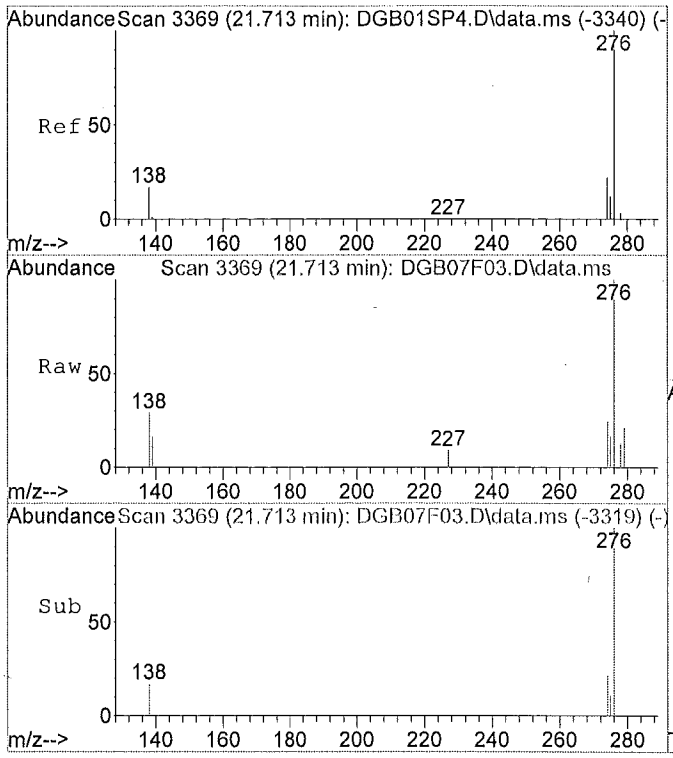


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.06 ug/ml
RT: 20.84 min Scan# 3172
Delta R.T. -0.01 min
Lab File: DGB07F03.D
Acq: 06/15/2015 17:33

Tgt Ion:276 Resp: 47980

Ion	Ratio	Lower	Upper
276	100		
138	27.7	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

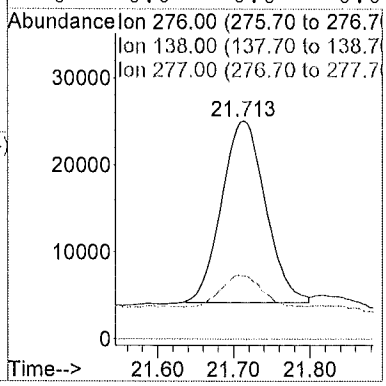




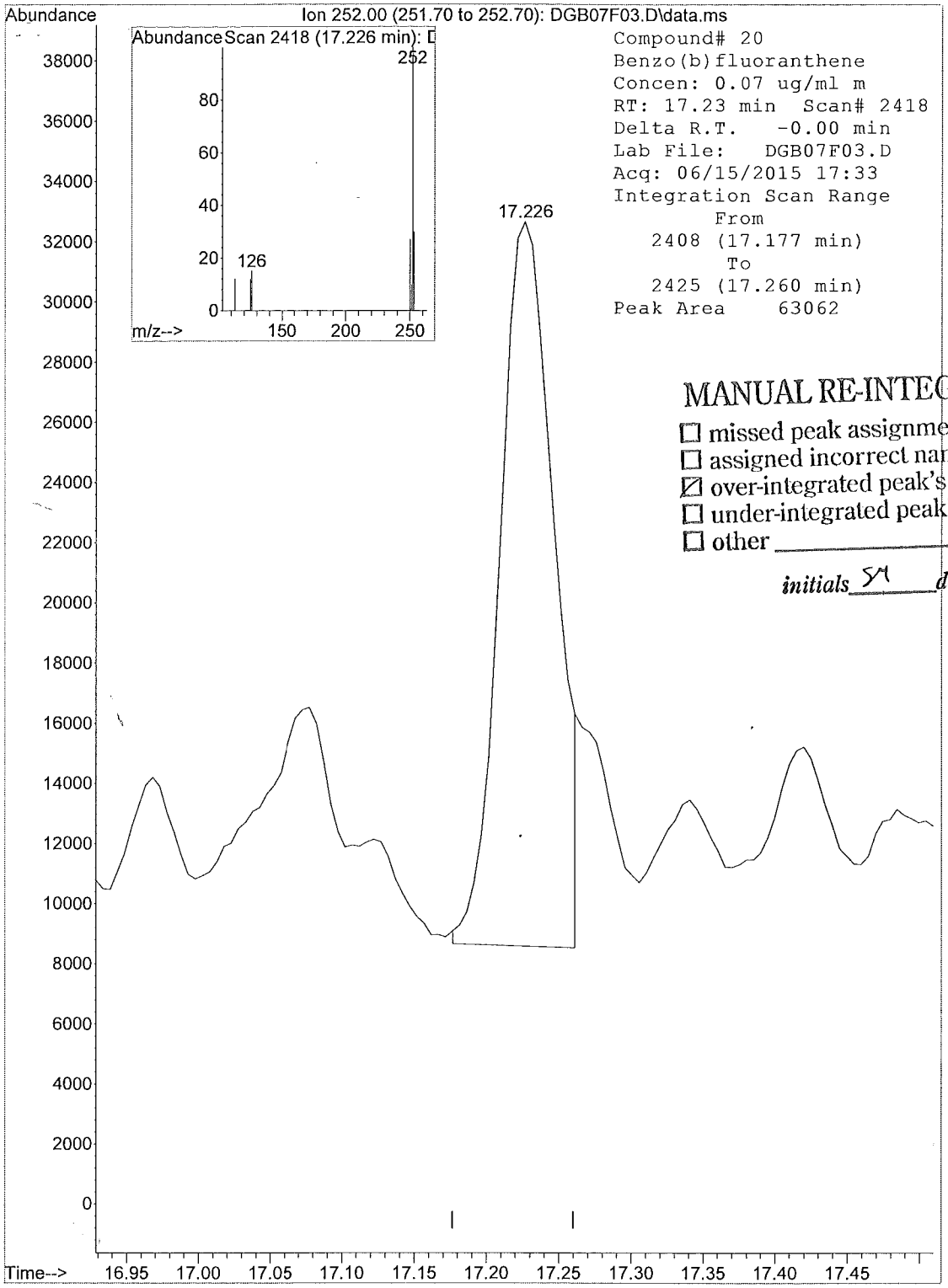
#25
Benzo(g,h,i)perylene
Concen: 0.09 ug/ml
RT: 21.71 min Scan# 3369
Delta R.T. -0.01 min
Lab File: DGB07F03.D
Acq: 06/15/2015 17:33

Tgt Ion:276 Resp: 83625

Ion	Ratio	Lower	Upper
276	100		
138	16.1	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(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* 6/18/15

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M24

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542004

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DGB08F04

Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 60.0

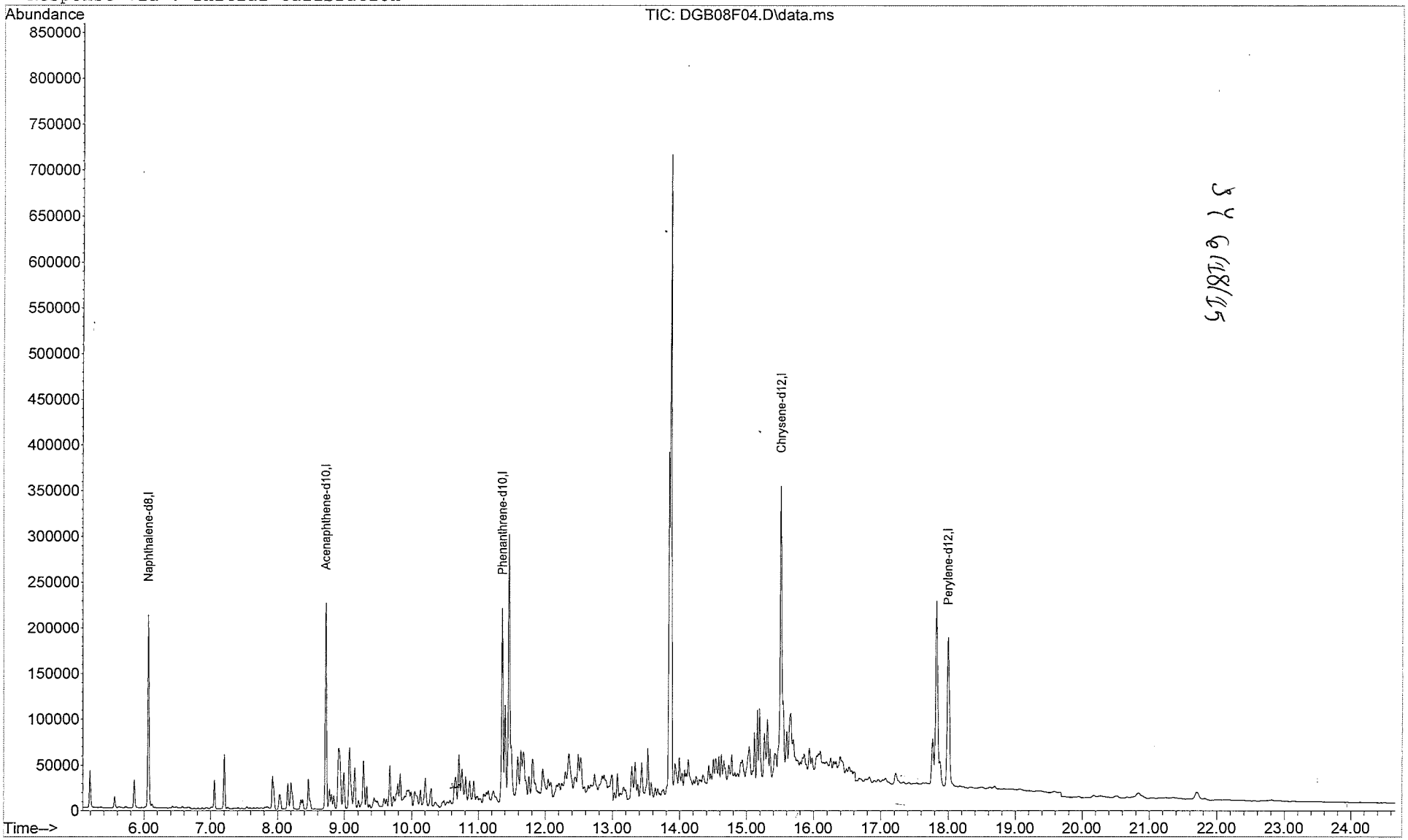
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	230	U
91-57-6	2-Methylnaphthalene	93.	J
208-96-8	Acenaphthylene	230	U
83-32-9	Acenaphthene	56.	J
86-73-7	Fluorene	97.	J
87-86-5	Pentachlorophenol	470	U
85-01-8	Phenanthrene	350	
120-12-7	Anthracene	130	J
206-44-0	Fluoranthene	110	J
129-00-0	Pyrene	1300	
56-55-3	Benzo(a)anthracene	120	J
218-01-9	Chrysene	150	J
205-99-2	Benzo(b)fluoranthene	230	U
207-08-9	Benzo(k)fluoranthene	230	U
50-32-8	Benzo(a)pyrene	73.	J
193-39-5	Indeno(1,2,3-cd)pyrene	230	U
53-70-3	Dibenzo(a,h)anthracene	230	U
191-24-2	Benzo(g,h,i)perylene	53.	J

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB08F04.D Vial: 7
Acq On : 06/15/2015 18:04 Operator: SY
Sample : 1515542004 F9M24 (60) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 17 14:58:23 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

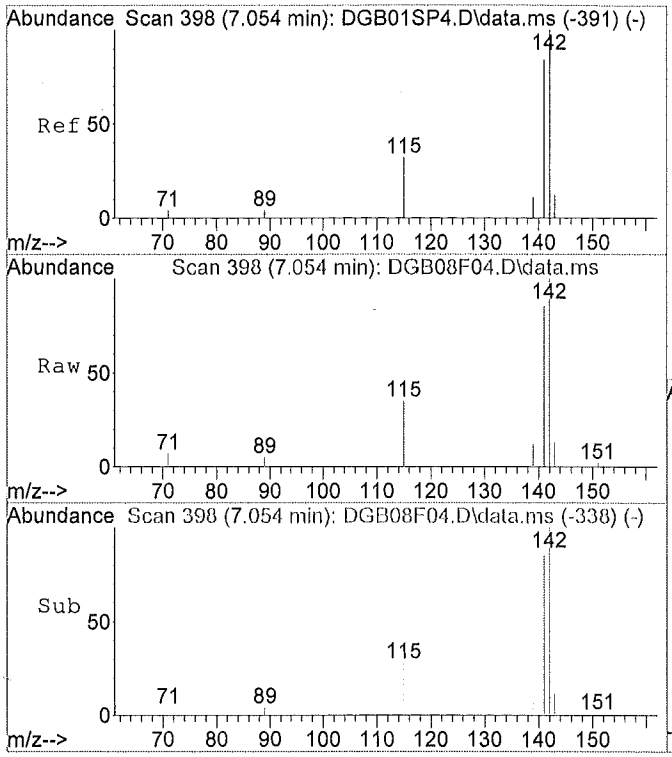
Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB08F04.D Vial: 7
Acq On : 06/15/2015 18:04 Operator: SY
Sample : 1515542004 F9M24 (60) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 17 14:58:23 2015 Results File: DSOM_SIMJ2.RES

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	6.06	136	237413	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	153813	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	279942	0.40 ug/ml	
15) Chrysene-d12	15.51	240	311018	0.40 ug/ml	
19) Perylene-d12	18.00	264	305426	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	2092	0.005ug/mL	
13) Fluoranthene-d10	13.49	212	10799	0.014ug/mL	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	7.05	142	16030	0.040ug/ml	99
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	8.77	153	10400	0.024ug/ml	97
8) Fluorene	9.67	166	20932	0.042ug/ml	90
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.40	178	120490	0.149ug/ml	97
12) Anthracene	11.50	178	44942	0.057ug/ml	51
14) Fluoranthene	13.52	202	44535	0.049ug/ml	98
16) Pyrene	13.87	202	544300	0.558ug/ml	88
17) Benzo(a)anthracene	15.50	228	42196	0.051ug/ml	33
18) Chrysene	15.54	228	57160	0.065ug/ml	60
20) Benzo(b)fluoranthene	0.00	252		Not Detected	
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	17.88.	252	28639	0.031ug/ml	87
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	21.70	276	20555	0.023ug/ml	69

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

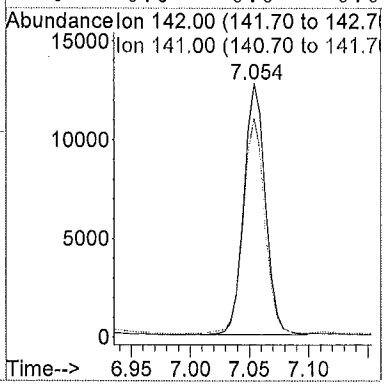
00574

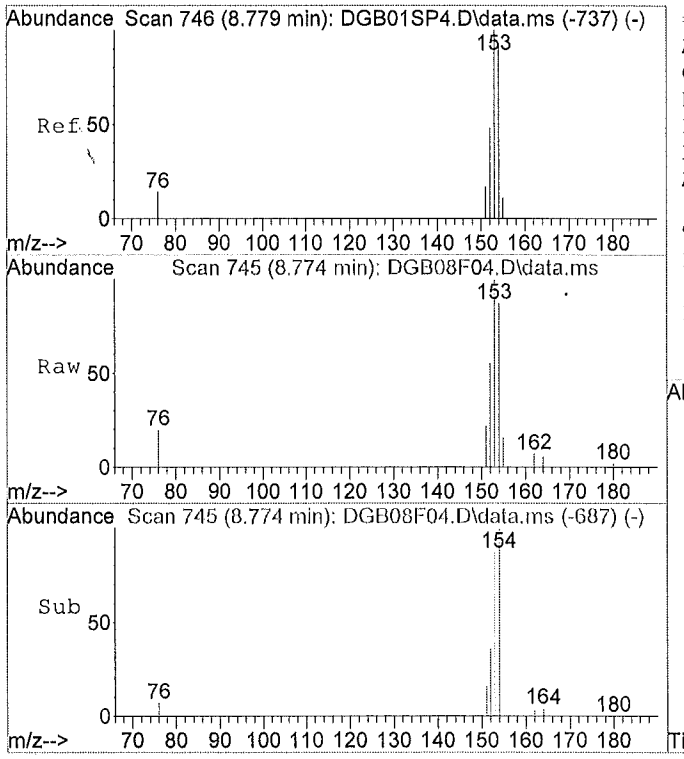


#4
2-Methylnaphthalene
Concen: 0.04 ug/ml
RT: 7.05 min Scan# 398
Delta R.T. -0.01 min
Lab File: DGB08F04.D
Acq: 06/15/2015 18:04

Tgt Ion:142 Resp: 16030

Ion	Ratio	Lower	Upper
142	100		
141	86.5	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

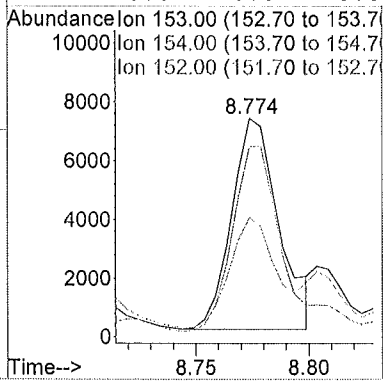


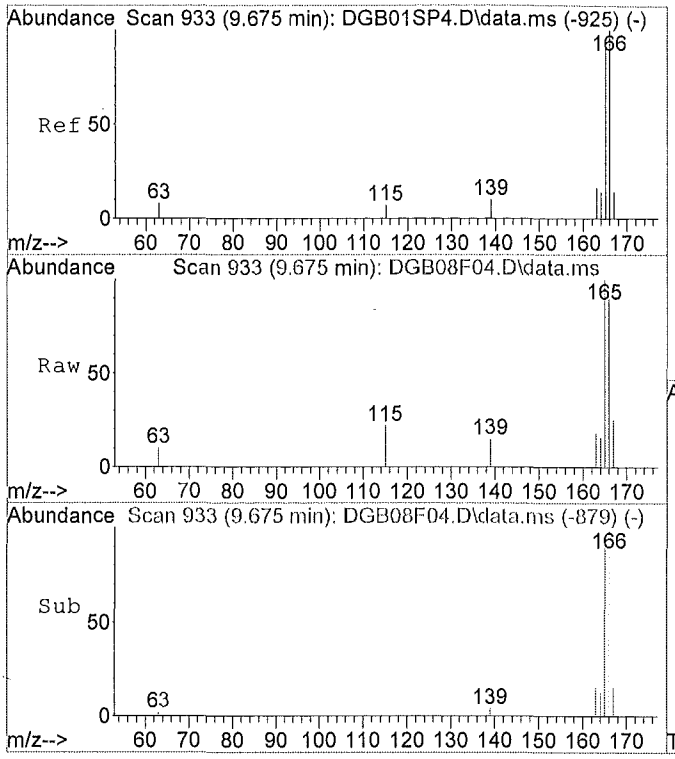


#7
Acenaphthene
Concen: 0.02 ug/ml
RT: 8.77 min Scan# 745
Delta R.T. -0.01 min
Lab File: DGB08F04.D
Acq: 06/15/2015 18:04

Tgt Ion:153 Resp: 10400

Ion	Ratio	Lower	Upper
153	100		
154	96.0	65.1	120.9
152	52.7	35.2	65.4
0	0.0	0.0	0.0

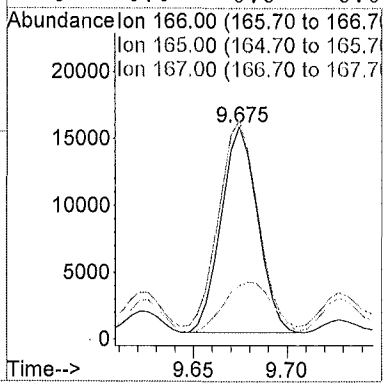


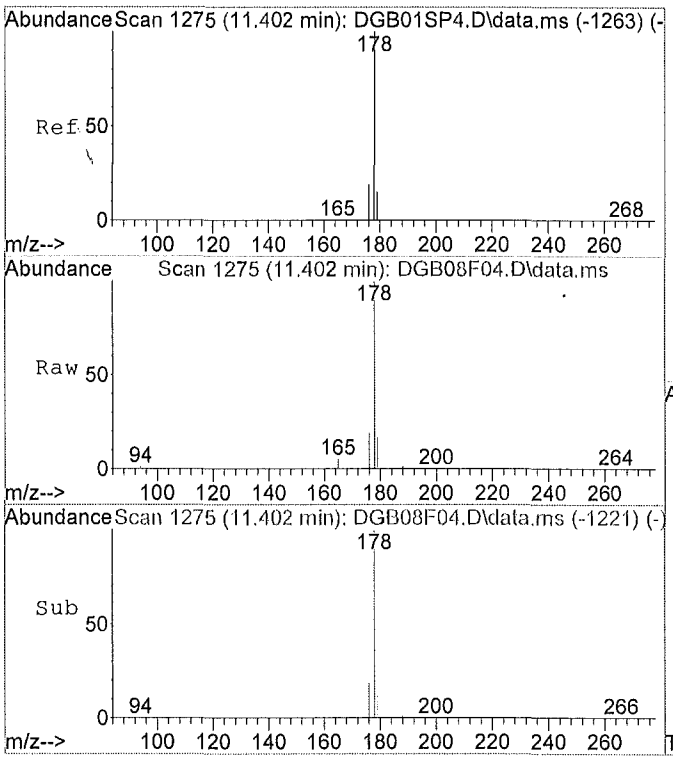


#8
Fluorene
Concen: 0.04 ug/ml
RT: 9.67 min Scan# 933
Delta R.T. -0.00 min
Lab File: DGB08F04.D
Acq: 06/15/2015 18:04

Tgt Ion:166 Resp: 20932

Ion	Ratio	Lower	Upper
166	100		
165	104.7	66.3	123.1
167	32.2	0.0	0.0#
0	0.0	0.0	0.0

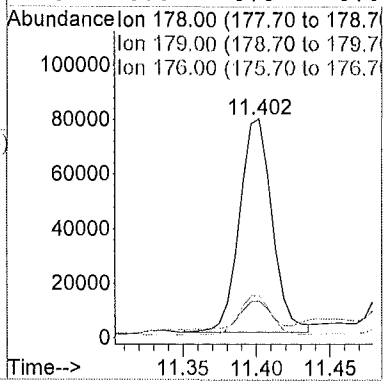


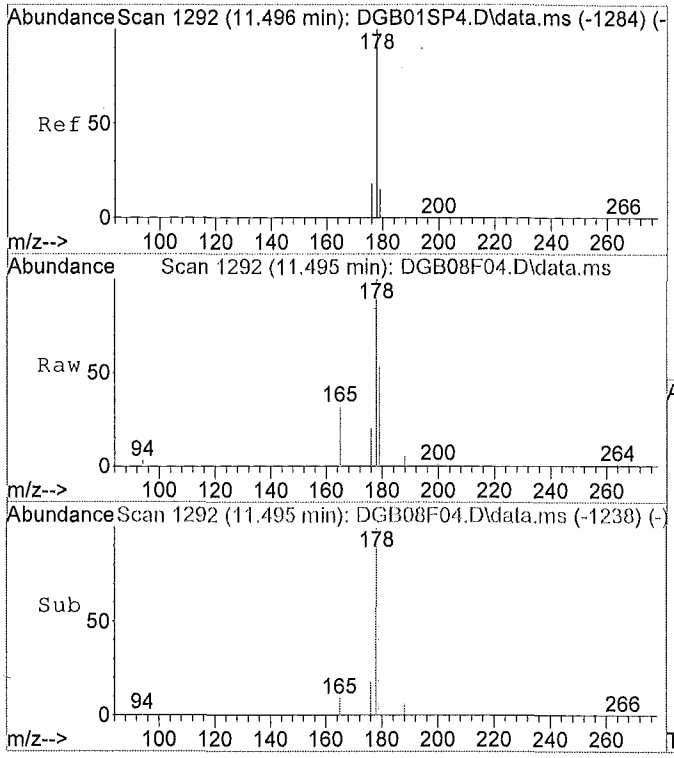


#11
Phenanthrene
Concen: 0.15 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DGB08F04.D
Acq: 06/15/2015 18:04

Tgt Ion:178 Resp: 120490

Ion	Ratio	Lower	Upper
178	100		
179	14.1	11.1	20.5
176	19.0	14.1	26.1
0	0.0	0.0	0.0

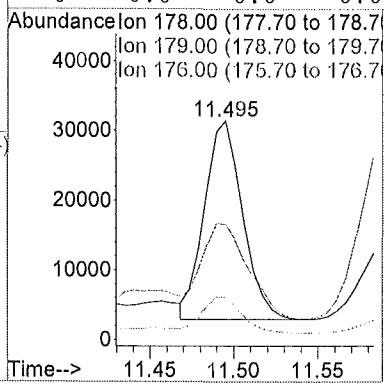


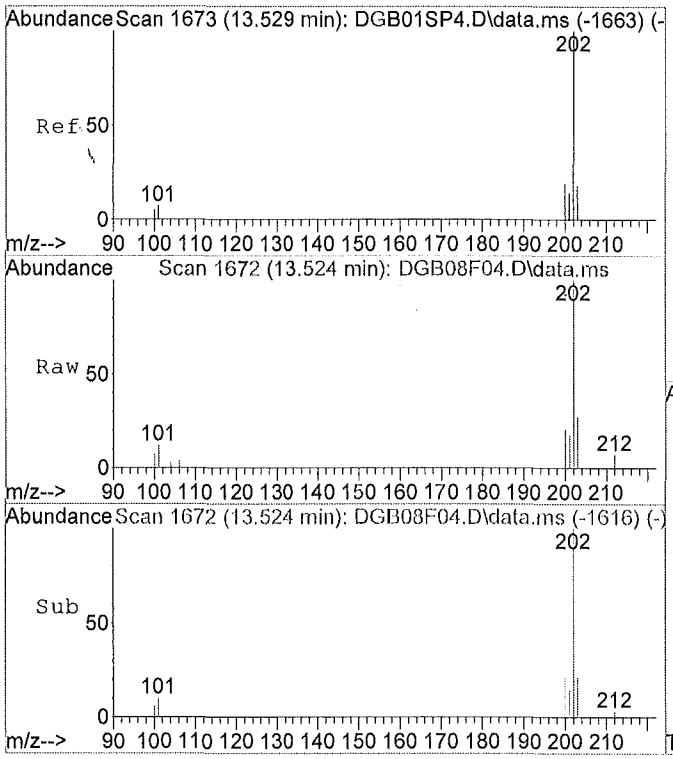


#12
Anthracene
Concen: 0.06 ug/ml
RT: 11.50 min Scan# 1292
Delta R.T. -0.01 min
Lab File: DGB08F04.D
Acq: 06/15/2015 18:04

Tgt Ion:178 Resp: 44942

Ion	Ratio	Lower	Upper
178	100		
179	62.1	11.6	21.6#
176	19.0	13.9	25.7
0	0.0	0.0	0.0

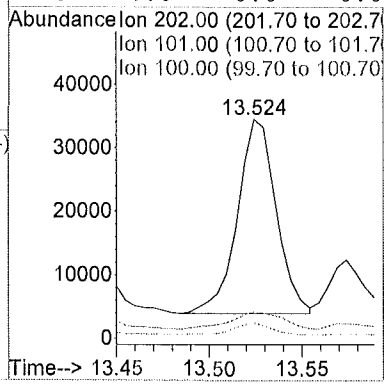


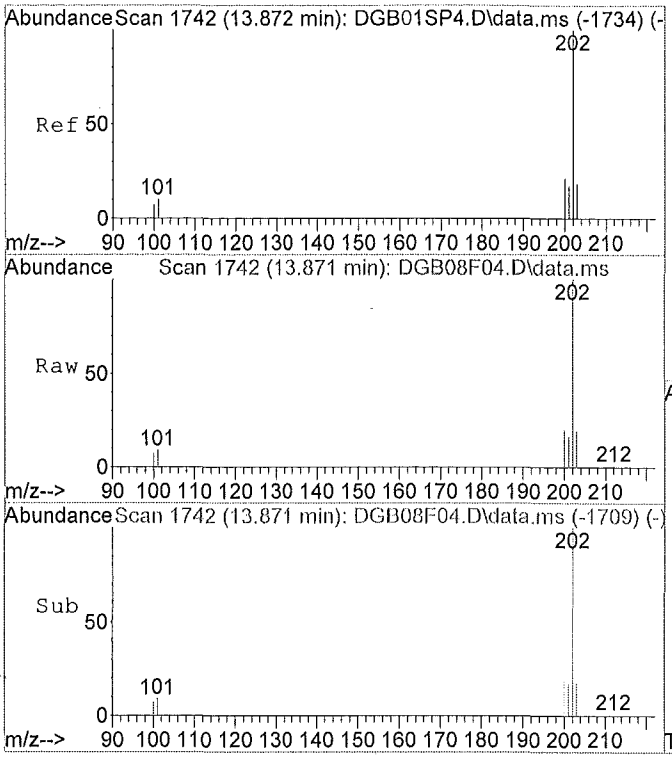


#14
Fluoranthene
Concen: 0.05 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DGB08F04.D
Acq: 06/15/2015 18:04

Tgt Ion:202 Resp: 44535

Ion	Ratio	Lower	Upper
202	100		
101	12.5	9.4	17.6
100	6.3	0.0	0.0#
0	0.0	0.0	0.0

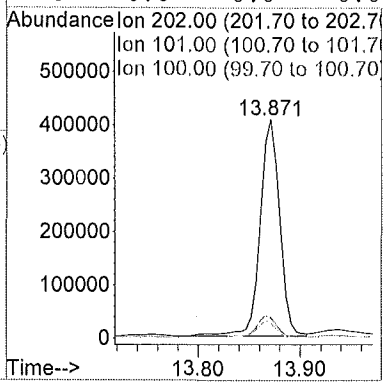


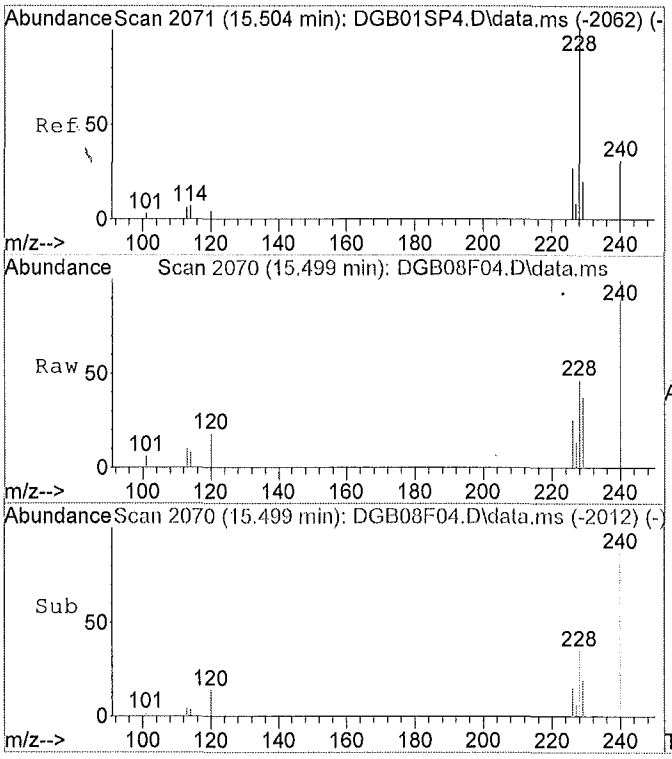


#16
Pyrene
Concen: 0.56 ug/ml
RT: 13.87 min Scan# 1742
Delta R.T. -0.01 min
Lab File: DGB08F04.D
Acq: 06/15/2015 18:04

Tgt Ion:202 Resp: 544300

Ion	Ratio	Lower	Upper
202	100		
101	10.4	10.6	19.6#
100	8.4	9.4	17.4#
0	0.0	0.0	0.0

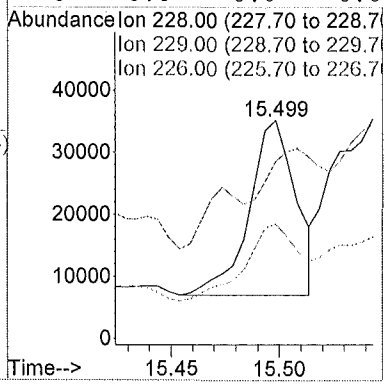


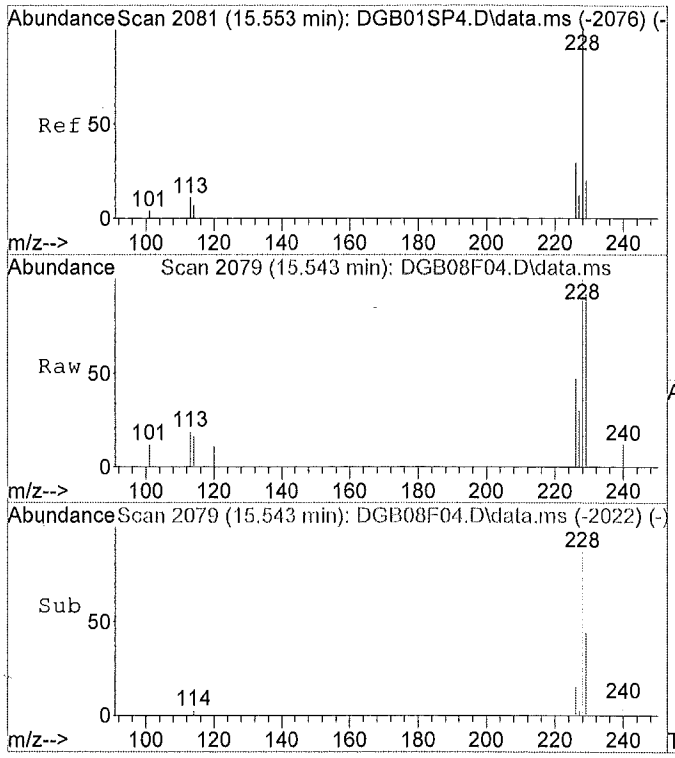


#17
Benzo(a)anthracene
Concen: 0.05 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DGB08F04.D
Acq: 06/15/2015 18:04

Tgt Ion:228 Resp: 42196

Ion	Ratio	Lower	Upper
228	100		
229	61.9	14.5	26.9#
226	51.8	18.5	34.3#
0	0.0	0.0	0.0

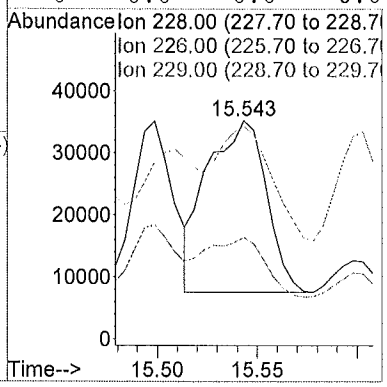


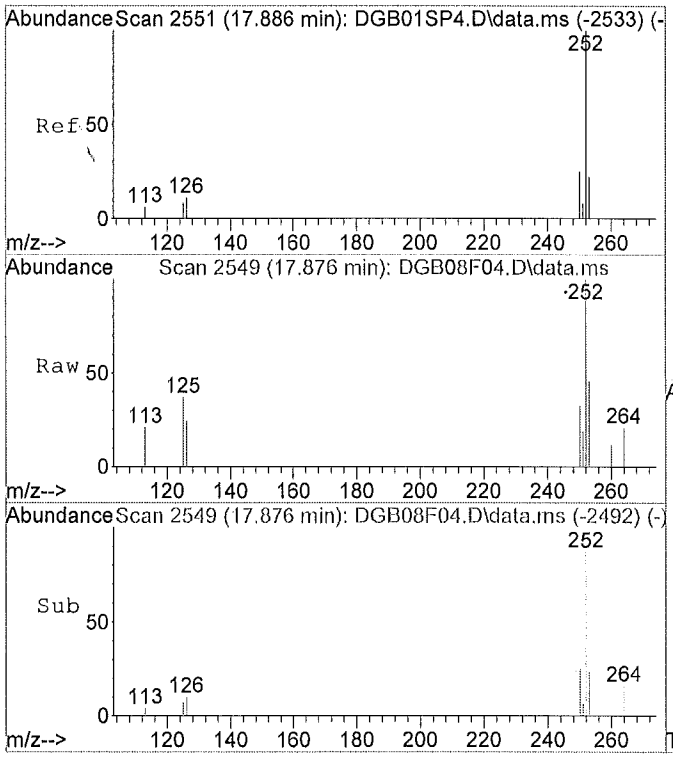


#18
Chrysene
Concen: 0.07 ug/ml
RT: 15.54 min Scan# 2079
Delta R.T. -0.01 min
Lab File: DGB08F04.D
Acq: 06/15/2015 18:04

Tgt Ion:228 Resp: 57160

Ion	Ratio	Lower	Upper
228	100		
226	32.2	19.7	36.7
229	59.6	14.5	26.9#
0	0.0	0.0	0.0

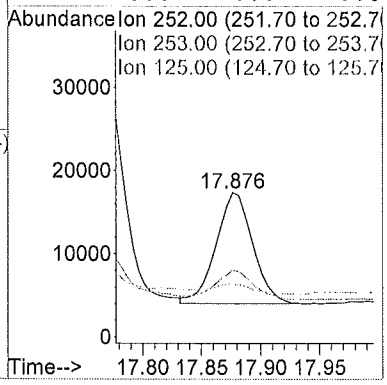


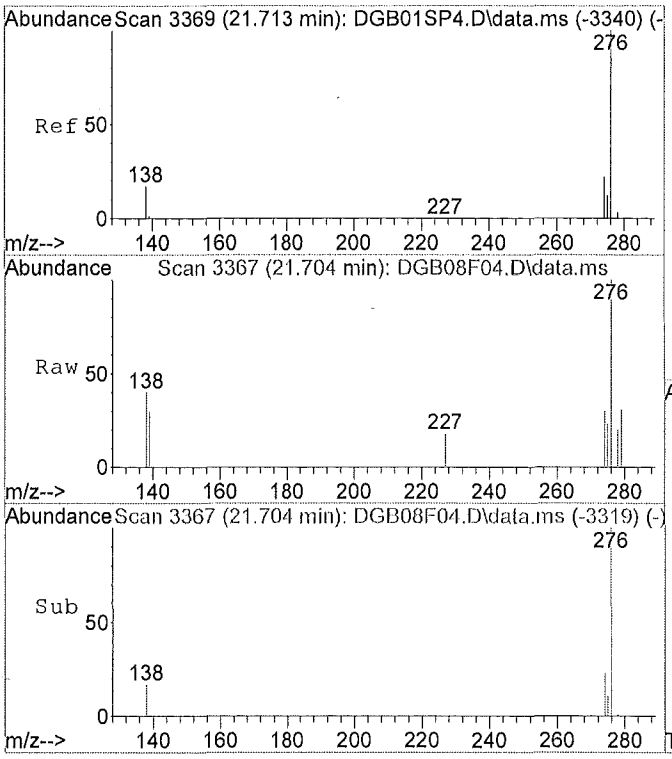


#22
Benzo(a)pyrene
Concen: 0.03 ug/ml
RT: 17.88 min Scan# 2549
Delta R.T. -0.01 min
Lab File: DGB08F04.D
Acq: 06/15/2015 18:04

Tgt Ion:252 Resp: 28639

Ion	Ratio	Lower	Upper
252	100		
253	27.4	15.0	27.8
125	10.2	0.0	0.0#
0	0.0	0.0	0.0

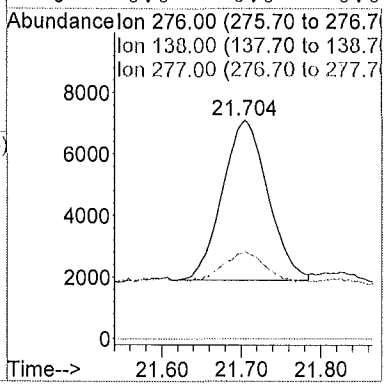




#25
Benzo(g,h,i)perylene
Concen: 0.02 ug/ml
RT: 21.70 min Scan# 3367
Delta R.T. -0.02 min
Lab File: DGB08F04.D
Acq: 06/15/2015 18:04

Tgt Ion:276 Resp: 20555

Ion	Ratio	Lower	Upper
276	100		
138	16.8	16.2	30.0
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M25

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542005

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DGB09F05

Extraction: (Type) SONC

% Moisture: 24. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 20.0

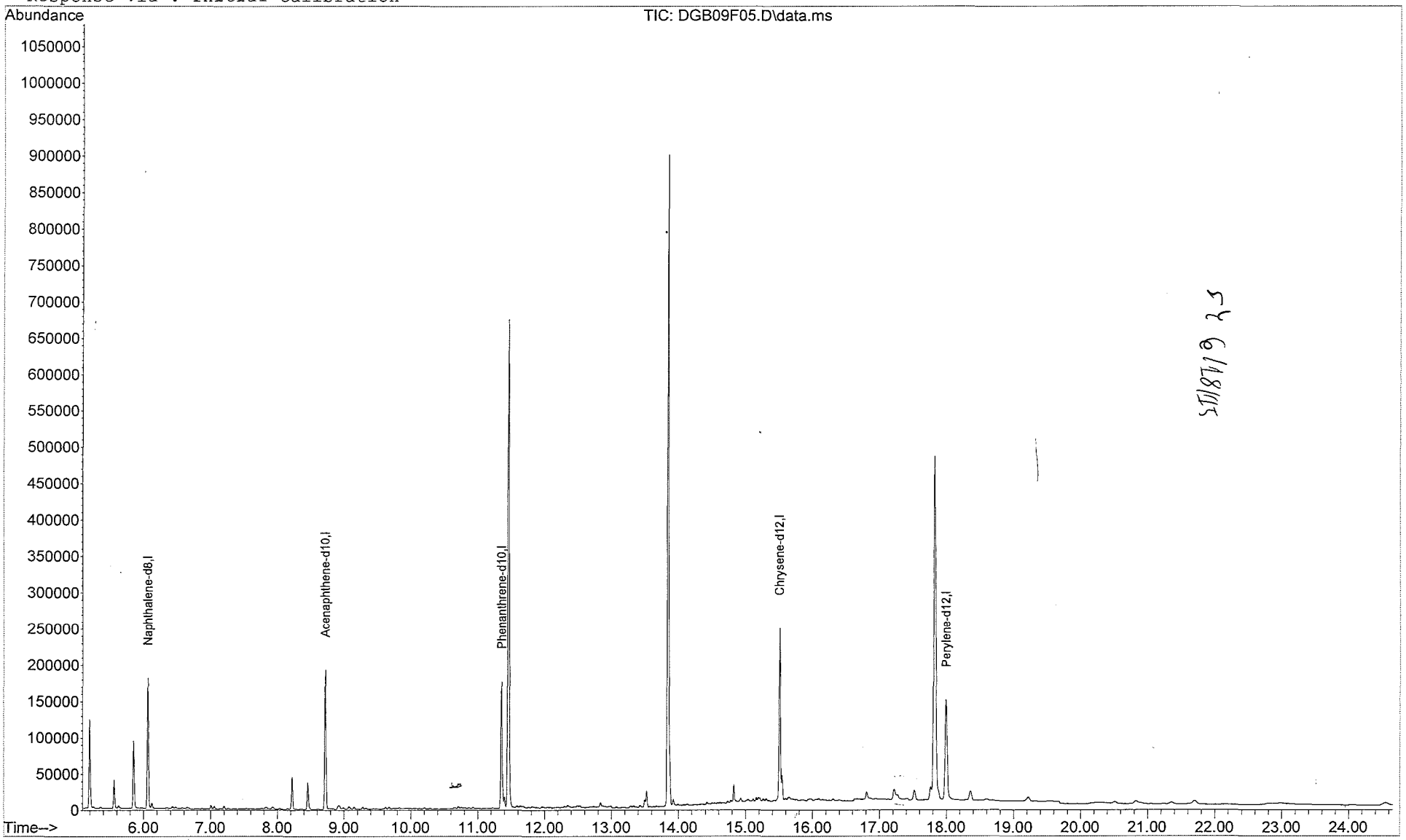
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	85.	U
91-57-6	2-Methylnaphthalene	85.	U
208-96-8	Acenaphthylene	85.	U
83-32-9	Acenaphthene	85.	U
86-73-7	Fluorene	85.	U
87-86-5	Pentachlorophenol	170	U
85-01-8	Phenanthrene	21.	J
120-12-7	Anthracene	85.	U
206-44-0	Fluoranthene	19.	J
129-00-0	Pyrene	57.	J
56-55-3	Benzo(a)anthracene	19.	J
218-01-9	Chrysene	32.	J
205-99-2	Benzo(b)fluoranthene	24.	J
207-08-9	Benzo(k)fluoranthene	85.	U
50-32-8	Benzo(a)pyrene	85.	U
193-39-5	Indeno(1,2,3-cd)pyrene	85.	U
53-70-3	Dibenzo(a,h)anthracene	85.	U
191-24-2	Benzo(g,h,i)perylene	85.	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB09F05.D Vial: 8
Acq On : 06/15/2015 18:34 Operator: SY
Sample : 1515542005 F9M25 (20) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 17 14:59:06 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



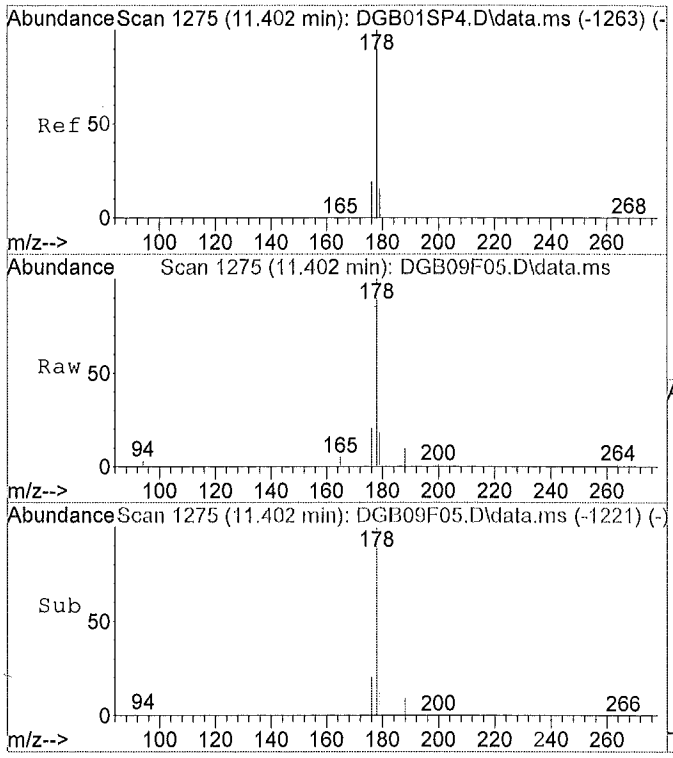
Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB09F05.D Vial: 8
Acq On : 06/15/2015 18:34 Operator: SY
Sample : 1515542005 F9M25 (20) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 17 14:59:06 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	
1) Naphthalene-d8	6.06	136	202150	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	132025	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	235167	0.40 ug/ml	
15) Chrysene-d12	15.51	240	265851	0.40 ug/ml	
19) Perylene-d12	18.00	264	248337	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	5848	0.018ug/mL	
13) Fluoranthene-d10	13.73	212	727	0.001ug/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	11.40	178	16445	0.024ug/ml	96
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.52	202	17392	0.023ug/ml	90
16) Pyrene	13.87	202	55075	0.066ug/ml	91
17) Benzo(a)anthracene	15.50	228	15671	0.022ug/ml	83
18) Chrysene	15.54	228	27934	0.037ug/ml	93
20) Benzo(b)fluoranthene	17.22	252	21406	0.028ug/ml	95
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	

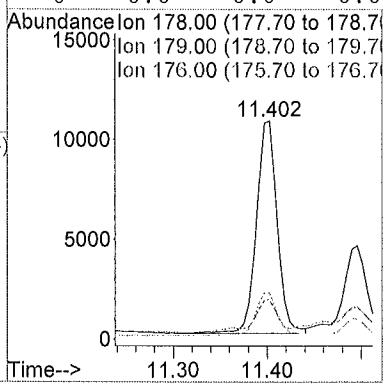
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

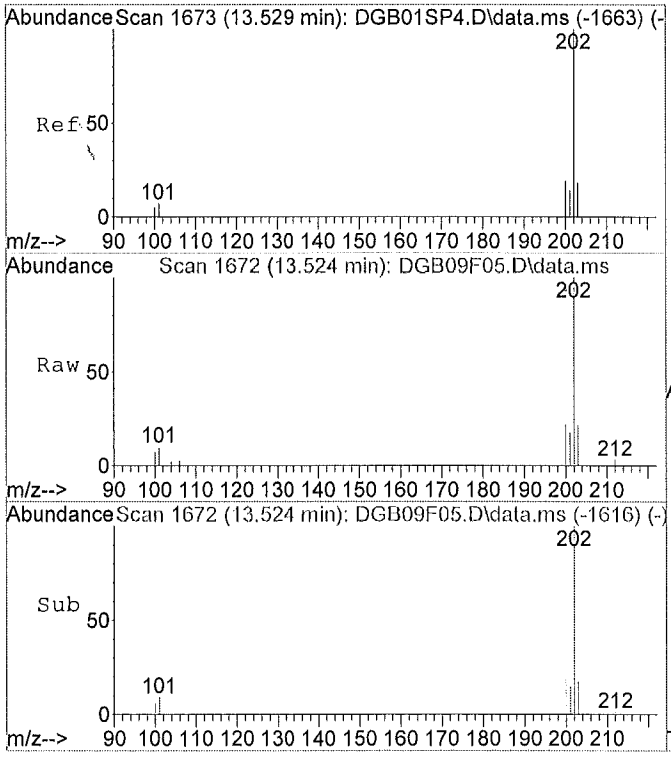


#11
Phenanthrene
Concen: 0.02 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DGB09F05.D
Acq: 06/15/2015 18:34

Tgt Ion:178 Resp: 16445

Ion	Ratio	Lower	Upper
178	100		
179	13.9	11.1	20.5
176	21.6	14.1	26.1
0	0.0	0.0	0.0

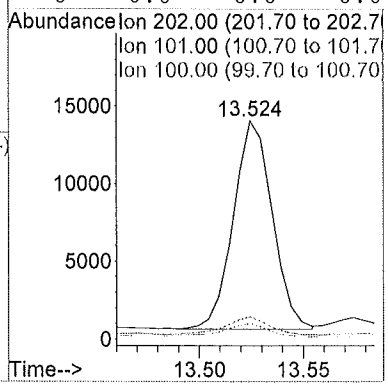


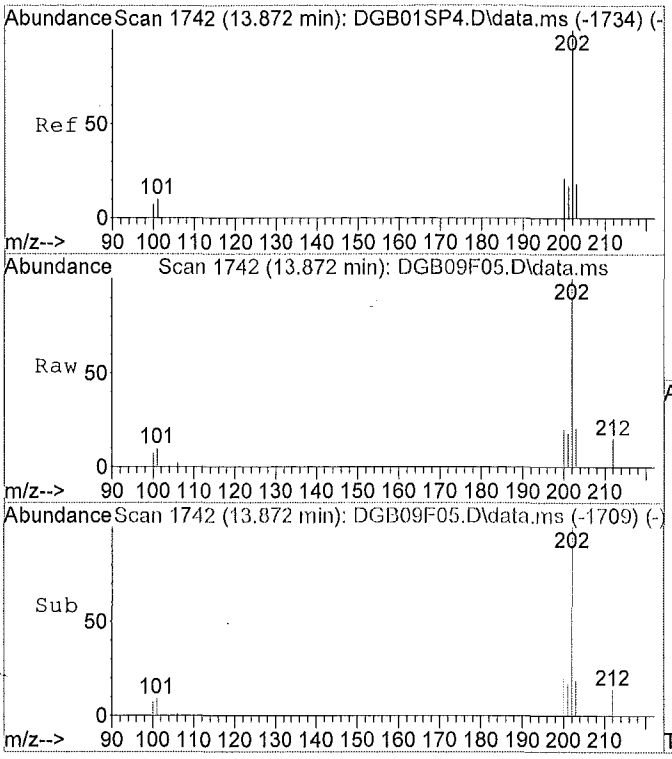


#14
Fluoranthene
Concen: 0.02 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DGB09F05.D
Acq: 06/15/2015 18:34

Tgt Ion:202 Resp: 17392

Ion	Ratio	Lower	Upper
202	100		
101	9.5	9.4	17.6
100	7.5	0.0	0.0#
0	0.0	0.0	0.0

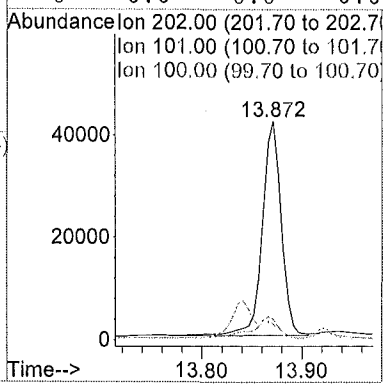


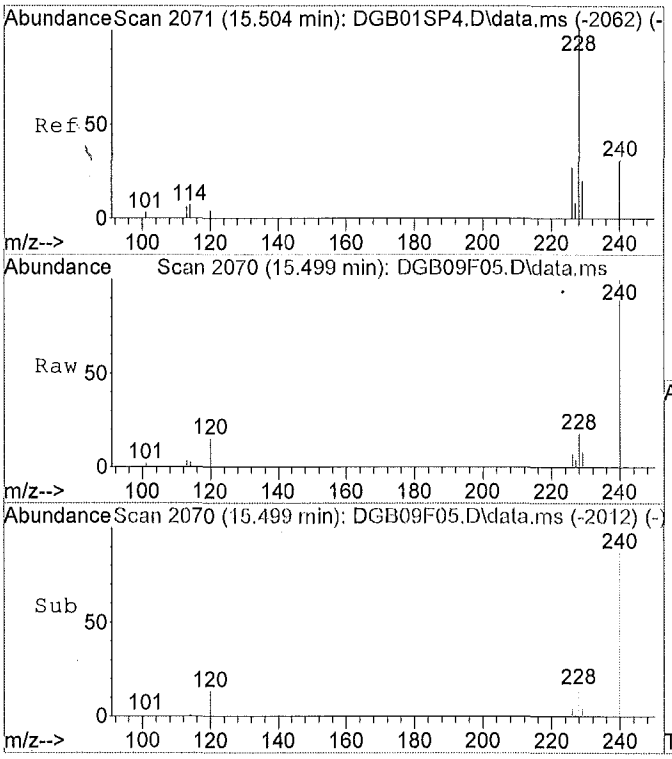


#16
Pyrene
Concen: 0.07 ug/ml
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DGB09F05.D
Acq: 06/15/2015 18:34

Tgt Ion:202 Resp: 55075

Ion	Ratio	Lower	Upper
202	100		
101	14.2	10.6	19.6
100	20.5	9.4	17.4#
0	0.0	0.0	0.0

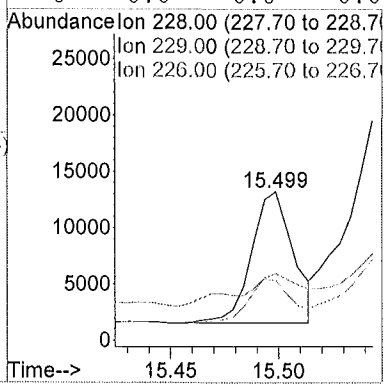


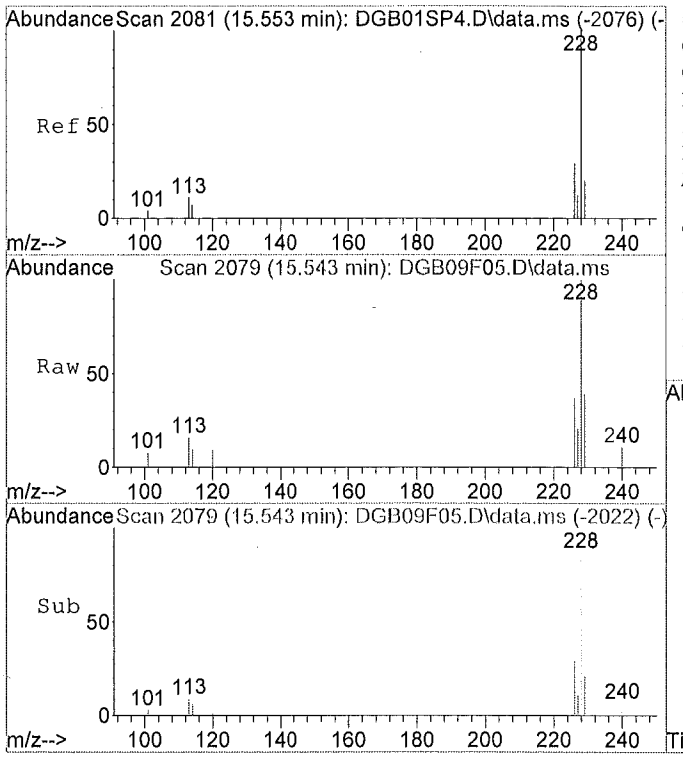


#17
Benzo(a)anthracene
Concen: 0.02 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DGB09F05.D
Acq: 06/15/2015 18:34

Tgt Ion:228 Resp: 15671

Ion	Ratio	Lower	Upper
228	100		
229	26.2	14.5	26.9
226	37.6	18.5	34.3#
0	0.0	0.0	0.0

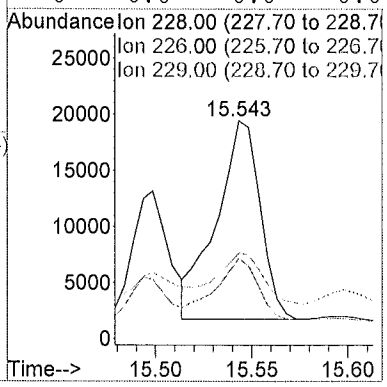


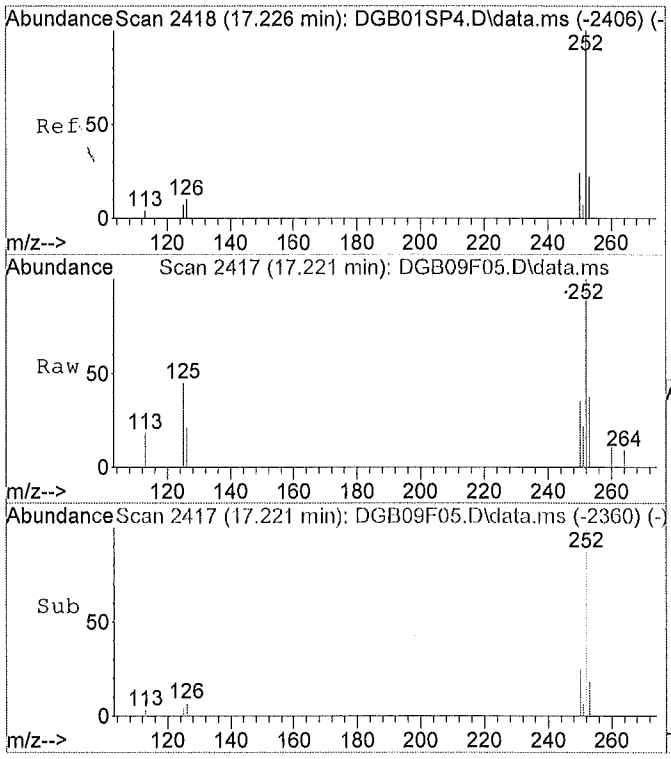


#18
Chrysene
Concen: 0.04 ug/ml
RT: 15.54 min Scan# 2079
Delta R.T. -0.01 min
Lab File: DGB09F05.D
Acq: 06/15/2015 18:34

Tgt Ion:228 Resp: 27934

Ion	Ratio	Lower	Upper
228	100		
226	30.0	19.7	36.7
229	25.9	14.5	26.9
0	0.0	0.0	0.0

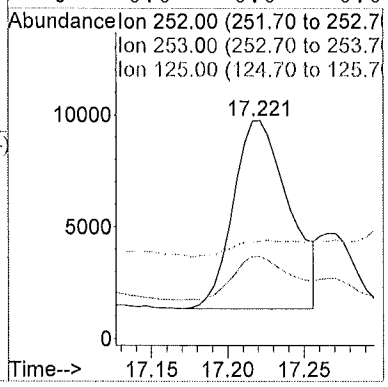




#20
Benzo(b)fluoranthene
Concen: 0.03 ug/ml
RT: 17.22 min Scan# 2417
Delta R.T. -0.01 min
Lab File: DGB09F05.D
Acq: 06/15/2015 18:34

Tgt Ion:252 Resp: 21406

Ion	Ratio	Lower	Upper
252	100		
253	24.0	15.3	28.3
125	7.9	0.0	0.0#
0	0.0	0.0	0.0



1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M26

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542006

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DGB10F06

Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 20.0

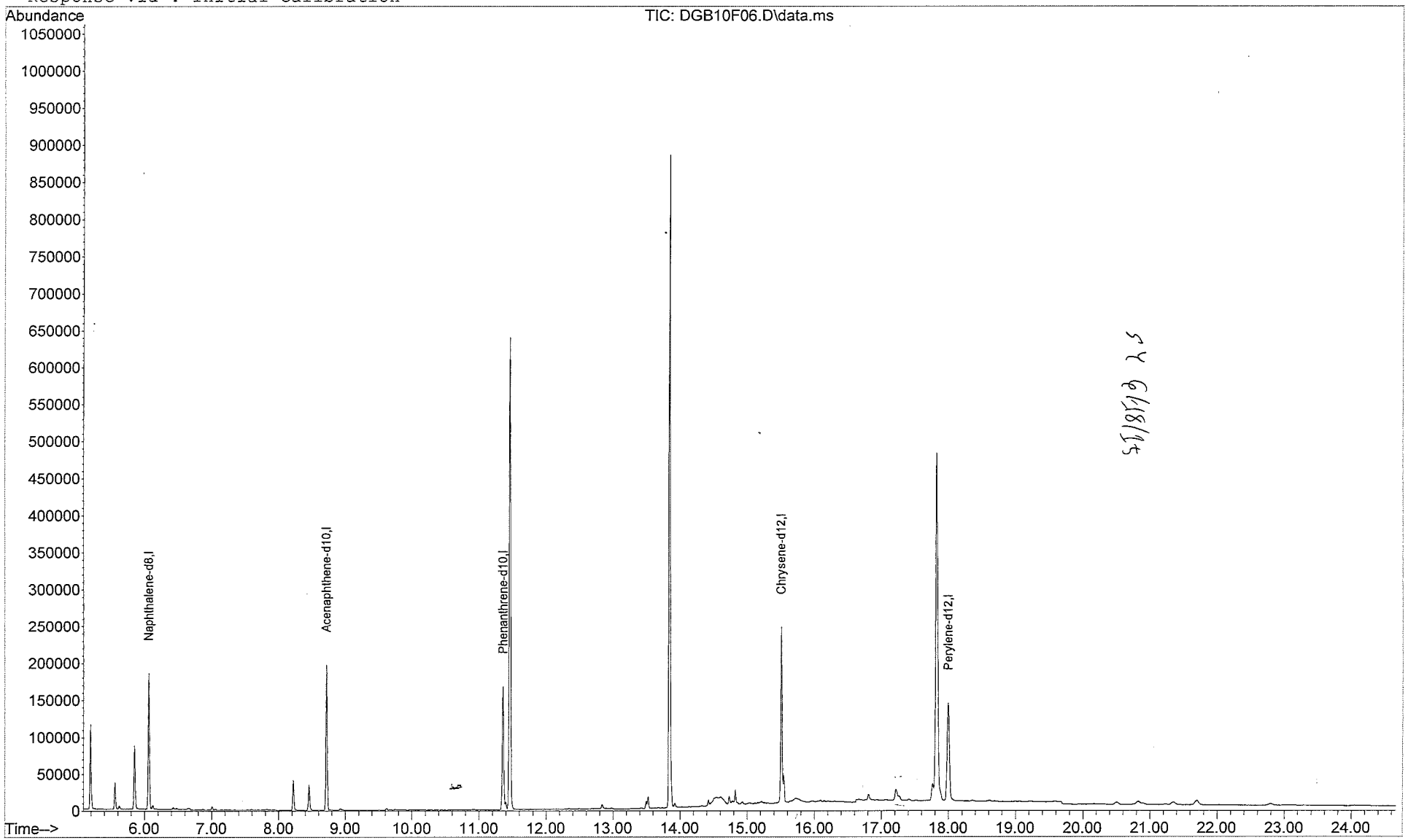
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	78.	U
91-57-6	2-Methylnaphthalene	78.	U
208-96-8	Acenaphthylene	78.	U
83-32-9	Acenaphthene	78.	U
86-73-7	Fluorene	78.	U
87-86-5	Pentachlorophenol	160	U
85-01-8	Phenanthrene	78.	U
120-12-7	Anthracene	78.	U
206-44-0	Fluoranthene	78.	U
129-00-0	Pyrene	20.	J
56-55-3	Benzo(a)anthracene	78.	U
218-01-9	Chrysene	32.	J
205-99-2	Benzo(b)fluoranthene	20.	J
207-08-9	Benzo(k)fluoranthene	78.	U
50-32-8	Benzo(a)pyrene	78.	U
193-39-5	Indeno(1,2,3-cd)pyrene	78.	U
53-70-3	Dibenzo(a,h)anthracene	78.	U
191-24-2	Benzo(g,h,i)perylene	16.	J

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB10F06.D Vial: 9
Acq On : 06/15/2015 19:04 Operator: SY
Sample : 1515542006 F9M26 (20) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 17 14:59:35 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

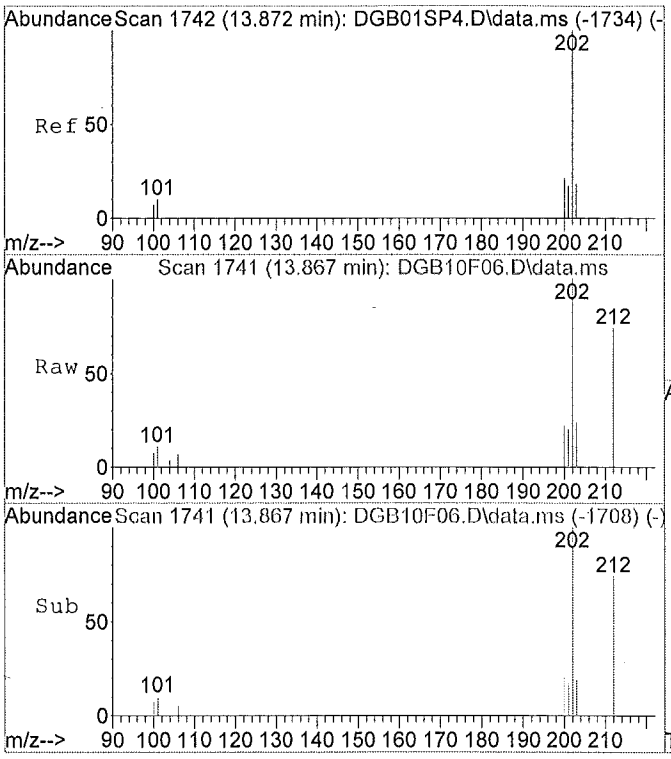
Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB10F06.D Vial: 9
Acq On : 06/15/2015 19:04 Operator: SY
Sample : 1515542006 F9M26 (20) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 17 14:59:35 2015 Results File: DSOM_SIMJ2.RES

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	6.06	136	206591	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	132837	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	234113	0.40 ug/ml	
15) Chrysene-d12	15.51	240	262822	0.40 ug/ml	
19) Perylene-d12	18.00	264	248198	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	5281	0.016ug/mL	
13) Fluoranthene-d10	13.49	212	10344	0.016ug/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	13.87	202	20989	0.025ug/ml m	77
17) Benzo(a)anthracene	0.00	228		Not Detected	
18) Chrysene	15.54	228	30030	0.041ug/ml	95
20) Benzo(b)fluoranthene	17.22	252	20166	0.026ug/ml	92
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	21.70	276	15163	0.021ug/ml	75

SY 6/18/15

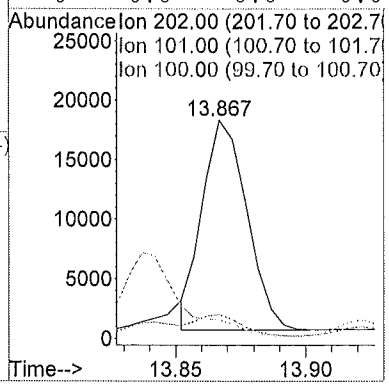
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

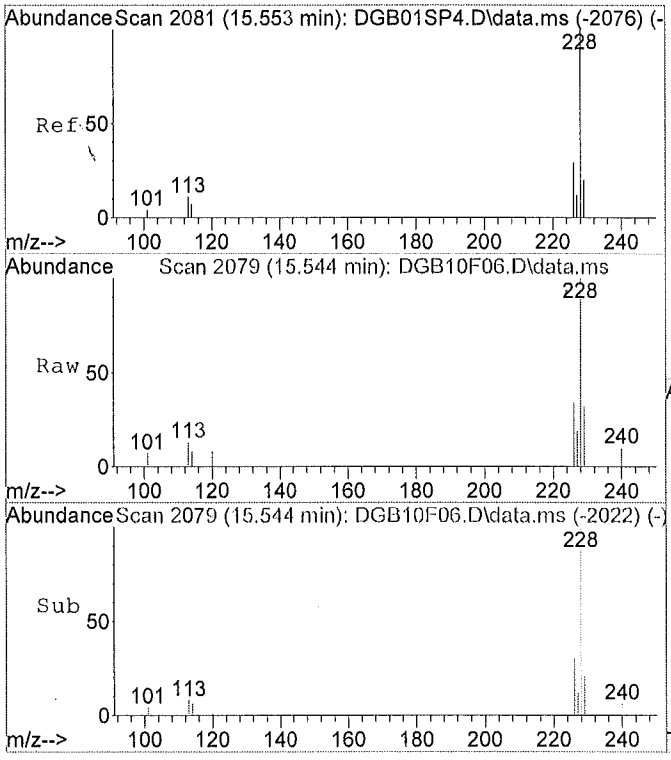


#16
Pyrene
Concen: 0.03 ug/ml m
RT: 13.87 min Scan# 1741
Delta R.T. -0.01 min
Lab File: DGB10F06.D
Acq: 06/15/2015 19:04

Tgt Ion:202 Resp: 20989

Ion	Ratio	Lower	Upper
202	100		
101	10.2	10.6	19.6#
100	0.0	9.4	17.4#
0	0.0	0.0	0.0

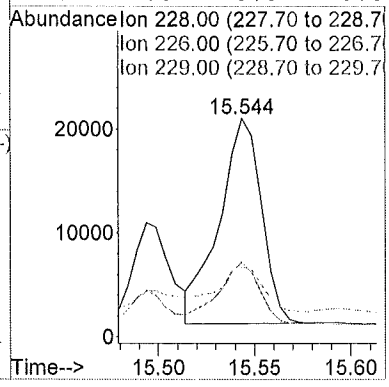


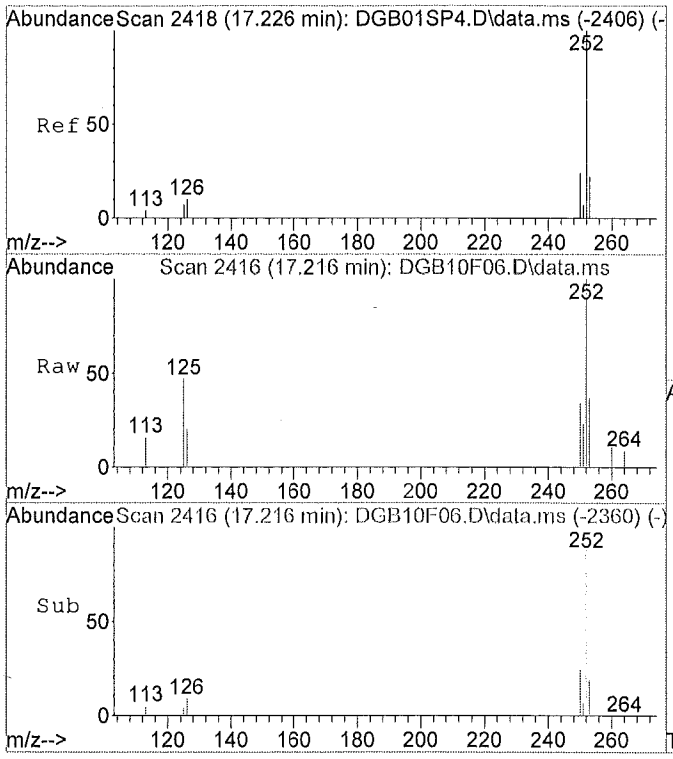


#18
Chrysene
Concen: 0.04 ug/ml
RT: 15.54 min Scan# 2079
Delta R.T. -0.01 min
Lab File: DGB10F06.D
Acq: 06/15/2015 19:04

Tgt Ion:228 Resp: 30030

Ion	Ratio	Lower	Upper
228	100		
226	31.8	19.7	36.7
229	21.4	14.5	26.9
0	0.0	0.0	0.0

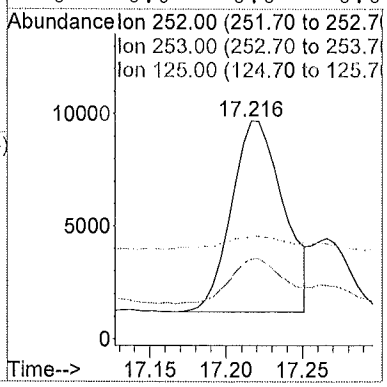


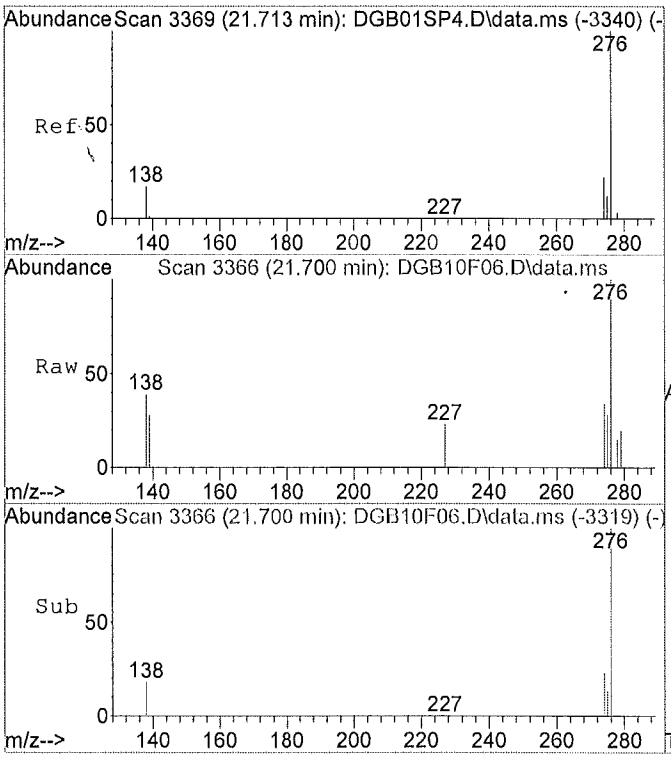


#20
Benzo(b)fluoranthene
Concen: 0.03 ug/ml
RT: 17.22 min Scan# 2416
Delta R.T. -0.01 min
Lab File: DGB10F06.D
Acq: 06/15/2015 19:04

Tgt Ion:252 Resp: 20166

Ion	Ratio	Lower	Upper
252	100		
253	25.8	15.3	28.3
125	7.7	0.0	0.0#
0	0.0	0.0	0.0

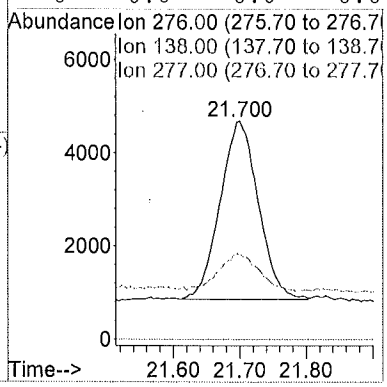




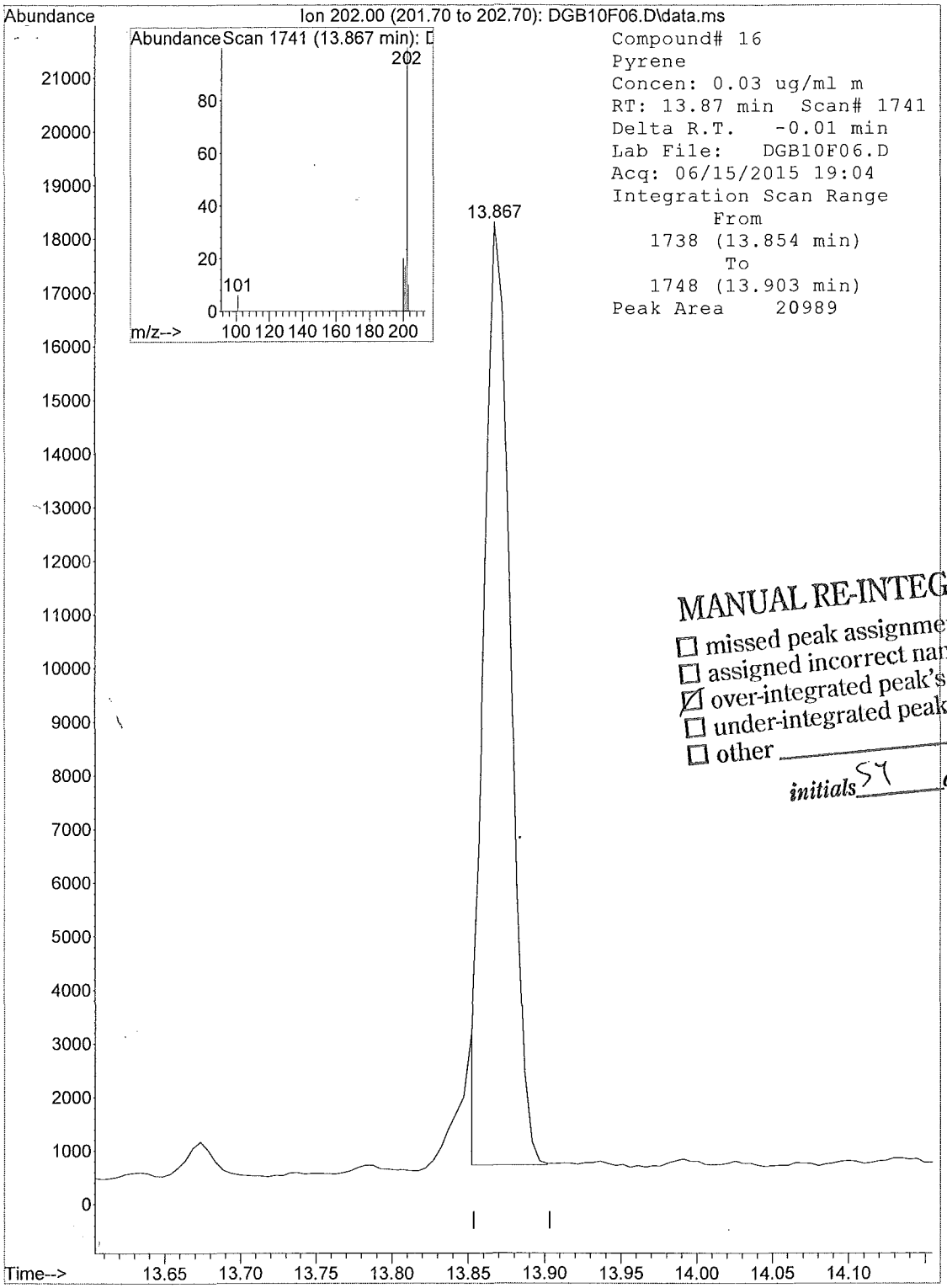
#25
Benzo(g,h,i)perylene
Concen: 0.02 ug/ml
RT: 21.70 min Scan# 3366
Delta R.T. -0.02 min
Lab File: DGB10F06.D
Acq: 06/15/2015 19:04

Tgt Ion:276 Resp: 15163

Ion	Ratio	Lower	Upper
276	100		
138	22.9	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 Pyrene



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* 6/18/15

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M27

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542007

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DGB11F07

Extraction: (Type) SONC

% Moisture: 19. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015

GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 5.0

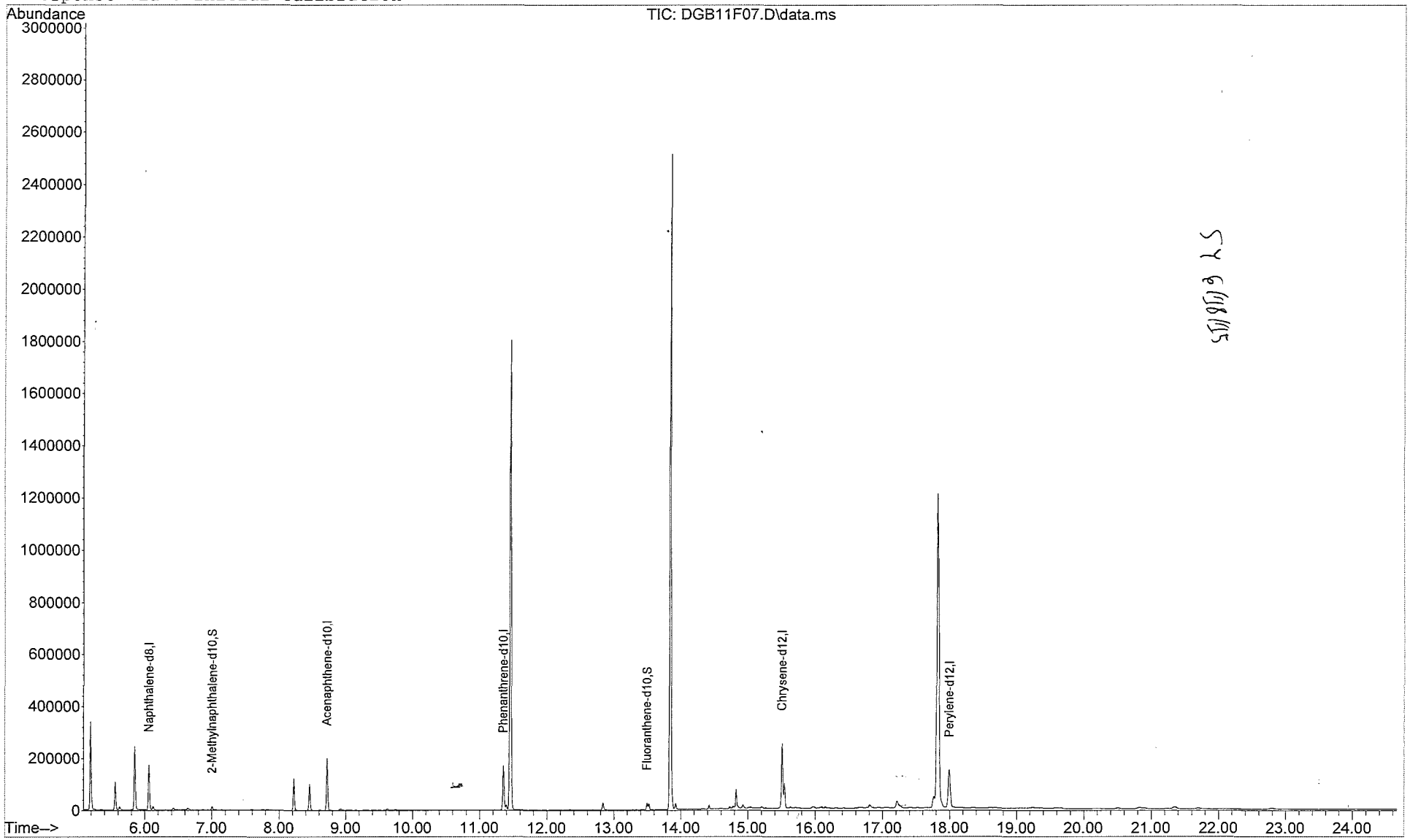
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	20.	U
91-57-6	2-Methylnaphthalene	20.	U
208-96-8	Acenaphthylene	20.	U
83-32-9	Acenaphthene	20.	U
86-73-7	Fluorene	20.	U
87-86-5	Pentachlorophenol	41.	U
85-01-8	Phenanthrene	6.1	J
120-12-7	Anthracene	20.	U
206-44-0	Fluoranthene	4.8	J
129-00-0	Pyrene	8.2	J
56-55-3	Benzo(a)anthracene	6.2	J
218-01-9	Chrysene	22.	
205-99-2	Benzo(b)fluoranthene	8.5	J
207-08-9	Benzo(k)fluoranthene	20.	U
50-32-8	Benzo(a)pyrene	5.2	J
193-39-5	Indeno(1,2,3-cd)pyrene	4.7	J
53-70-3	Dibenzo(a,h)anthracene	20.	U
191-24-2	Benzo(g,h,i)perylene	20.	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB11F07.D Vial: 10
Acq On : 06/15/2015 19:33 Operator: SY
Sample : 1515542007 F9M27 (5) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 17 15:00:15 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



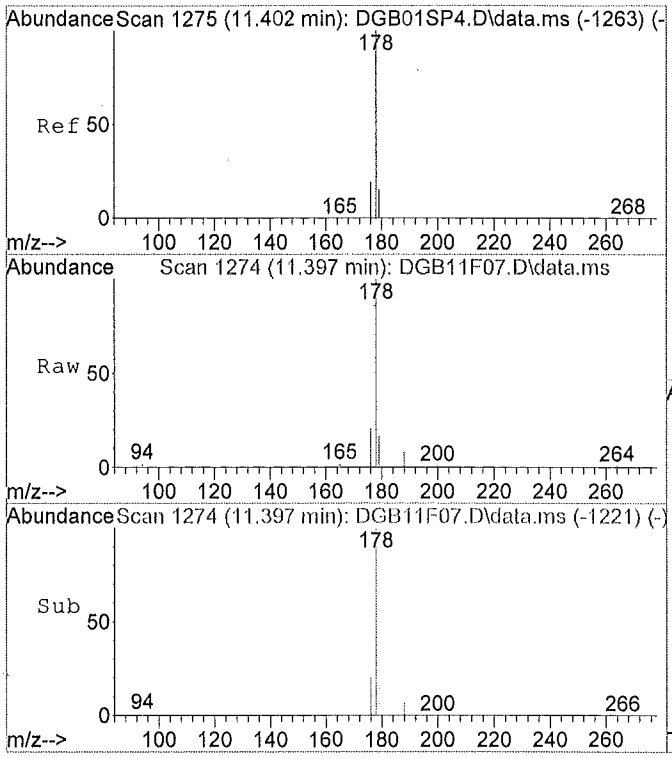
Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB11F07.D Vial: 10
Acq On : 06/15/2015 19:33 Operator: SY
Sample : 1515542007 F9M27 (5) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 17 15:00:15 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	6.06	136	199036	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	132726	0.40 ug/ml	
9) Phenanthrene-d10	11.35	188	233879	0.40 ug/ml	
15) Chrysene-d12	15.51	240	264166	0.40 ug/ml	
19) Perylene-d12	18.00	264	262867	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	15134	0.047ug/mL	
13) Fluoranthene-d10	13.49	212	28950	0.045ug/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	11.40	178	20157	0.030ug/ml	99
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.52	202	17941	0.023ug/ml	88
16) Pyrene	13.87	202	33221	0.040ug/ml m SY 6/18/15	75
17) Benzo(a)anthracene	15.49	228	21310	0.030ug/ml	83
18) Chrysene	15.54	228	79071	0.106ug/ml	95
20) Benzo(b)fluoranthene	17.22	252	34145	0.042ug/ml	97
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	17.88.	252	19763	0.025ug/ml	94
23) Indeno(1,2,3-c,d)pyrene	20.82	276	15807	0.023ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	0.00	276		Not Detected	

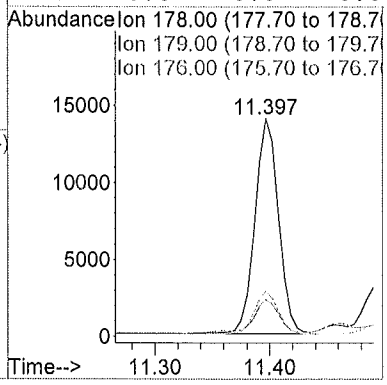
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

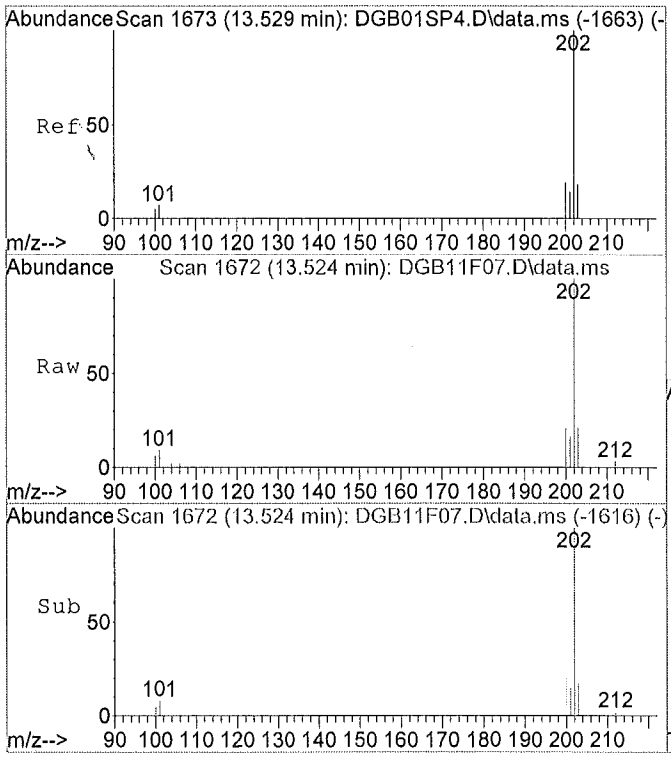


#11
Phenanthrene
Concen: 0.03 ug/ml
RT: 11.40 min Scan# 1274
Delta R.T. -0.01 min
Lab File: DGB11F07.D
Acq: 06/15/2015 19:33

Tgt Ion:178 Resp: 20157

Ion	Ratio	Lower	Upper
178	100		
179	14.9	11.1	20.5
176	20.2	14.1	26.1
0	0.0	0.0	0.0

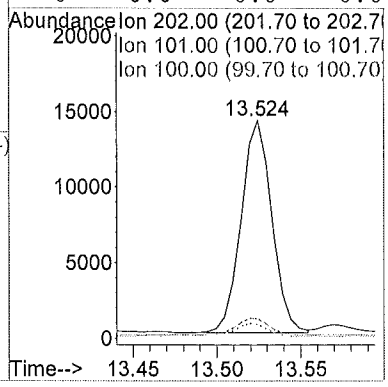


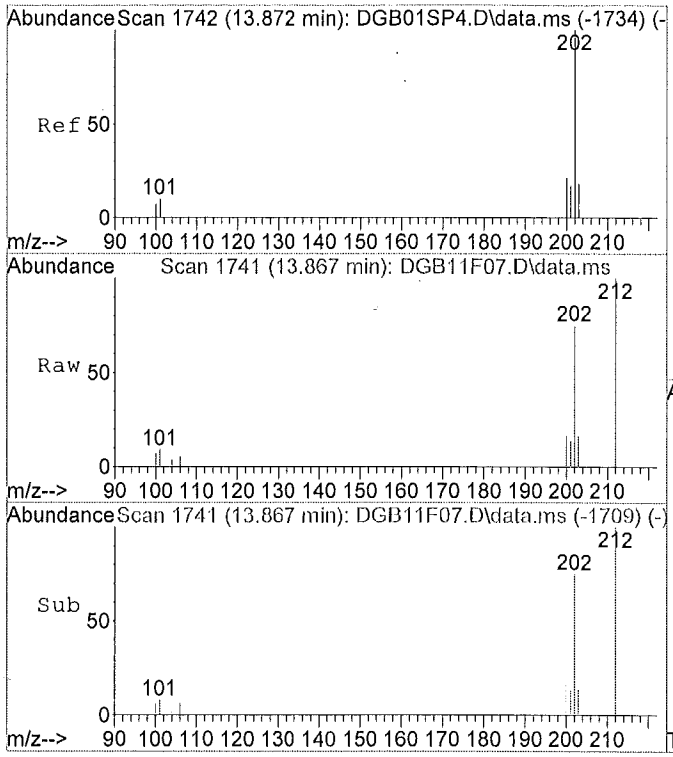


#14
Fluoranthene
Concen: 0.02 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DGB11F07.D
Acq: 06/15/2015 19:33

Tgt Ion:202 Resp: 17941

Ion	Ratio	Lower	Upper
202	100		
101	8.5	9.4	17.6#
100	6.0	0.0	0.0#
0	0.0	0.0	0.0

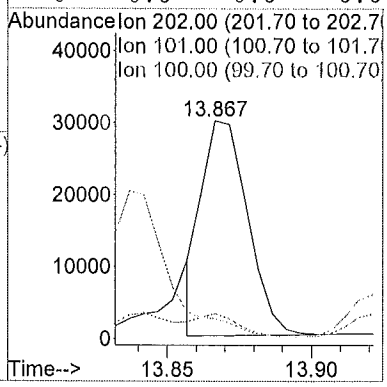


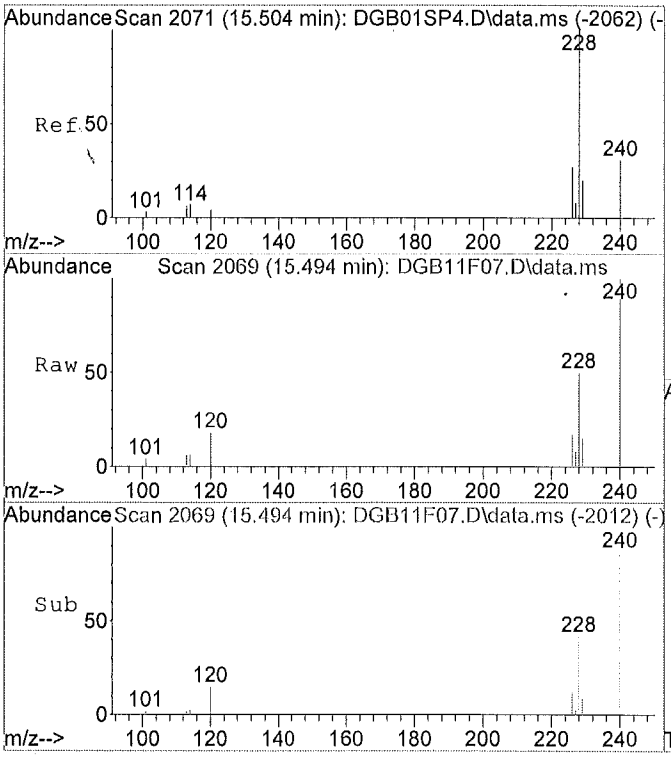


#16
Pyrene
Concen: 0.04 ug/ml m
RT: 13.87 min Scan# 1741
Delta R.T. -0.01 min
Lab File: DGB11F07.D
Acq: 06/15/2015 19:33

Tgt Ion:202 Resp: 33221

Ion	Ratio	Lower	Upper
202	100		
101	9.4	10.6	19.6#
100	0.0	9.4	17.4#
0	0.0	0.0	0.0

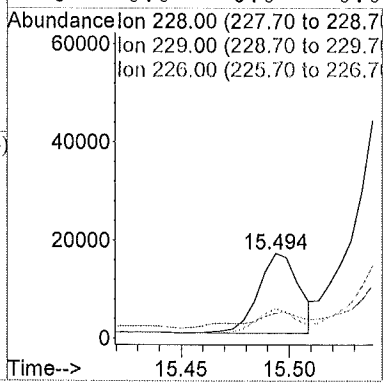


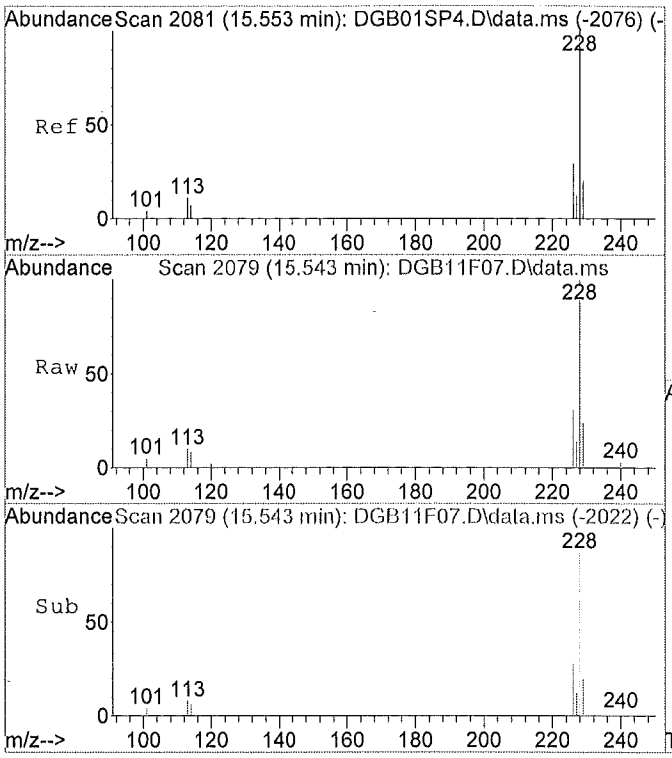


#17
Benzo(a)anthracene
Concen: 0.03 ug/ml
RT: 15.49 min Scan# 2069
Delta R.T. -0.01 min
Lab File: DGB11F07.D
Acq: 06/15/2015 19:33

Tgt Ion:228 Resp: 21310

Ion	Ratio	Lower	Upper
228	100		
229	33.4	14.5	26.9#
226	30.6	18.5	34.3
0	0.0	0.0	0.0

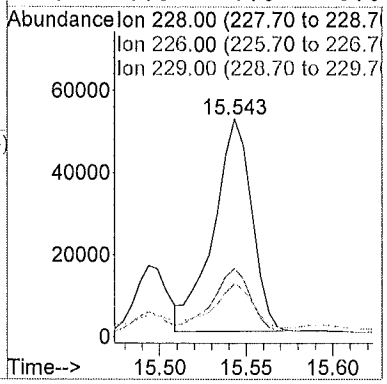


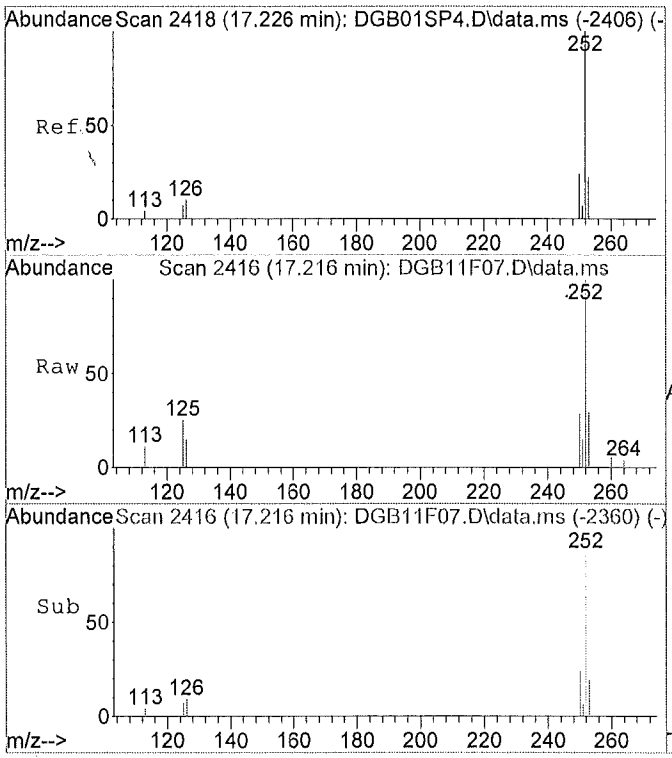


#18
Chrysene
Concen: 0.11 ug/ml
RT: 15.54 min Scan# 2079
Delta R.T. -0.01 min
Lab File: DGB11F07.D
Acq: 06/15/2015 19:33

Tgt Ion:228 Resp: 79071

Ion	Ratio	Lower	Upper
228	100		
226	31.3	19.7	36.7
229	22.5	14.5	26.9
0	0.0	0.0	0.0

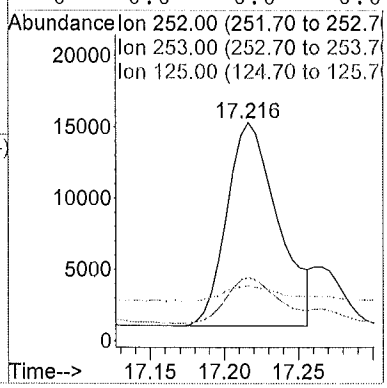


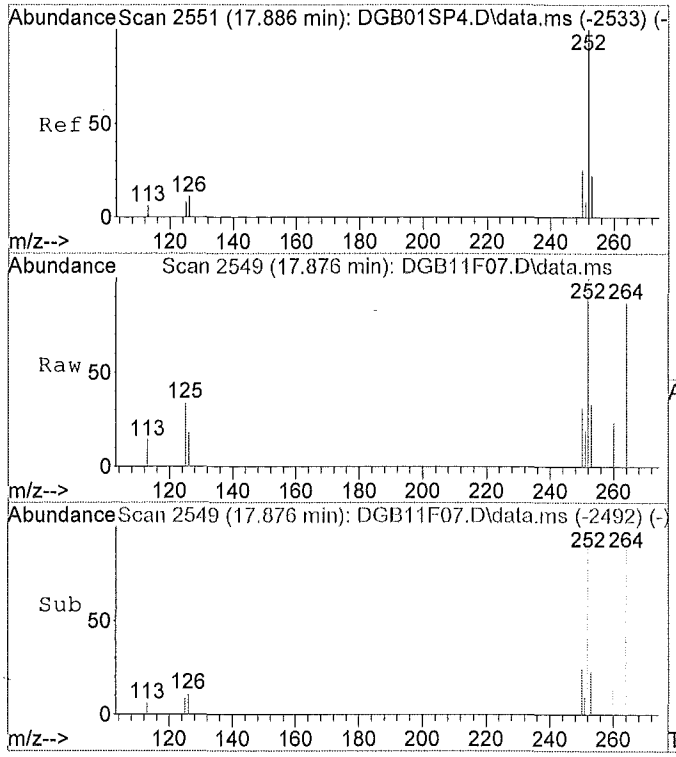


#20
Benzo(b)fluoranthene
Concen: 0.04 ug/ml
RT: 17.22 min Scan# 2416
Delta R.T. -0.01 min
Lab File: DGB11F07.D
Acq: 06/15/2015 19:33

Tgt Ion:252 Resp: 34145

Ion	Ratio	Lower	Upper
252	100		
253	23.4	15.3	28.3
125	9.8	0.0	0.0#
0	0.0	0.0	0.0

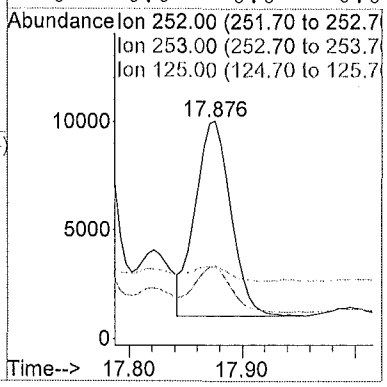


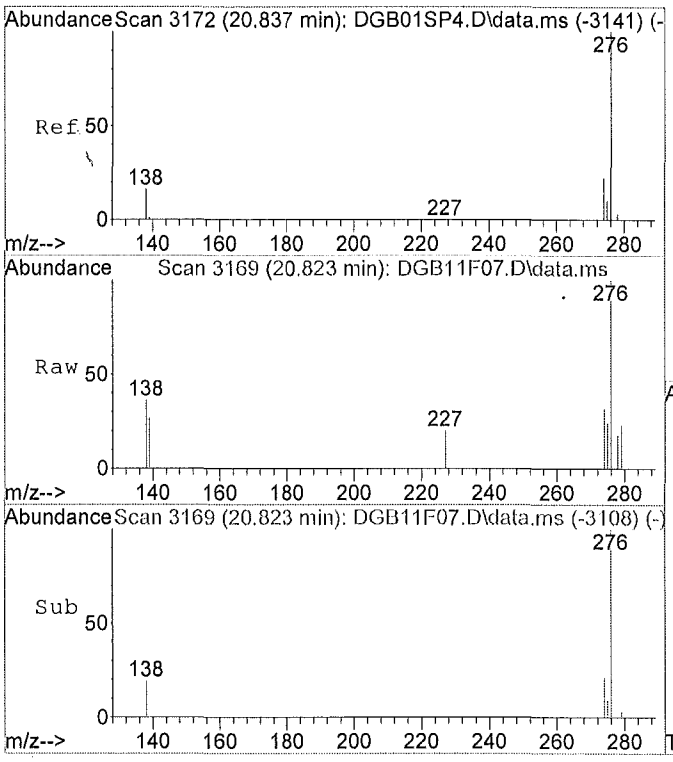


#22
Benzo(a)pyrene
Concen: 0.03 ug/ml
RT: 17.88 min Scan# 2549
Delta R.T. -0.01 min
Lab File: DGB11F07.D
Acq: 06/15/2015 19:33

Tgt Ion:252 Resp: 19763

Ion	Ratio	Lower	Upper
252	100		
253	24.4	15.0	27.8
125	7.9	0.0	0.0#
0	0.0	0.0	0.0

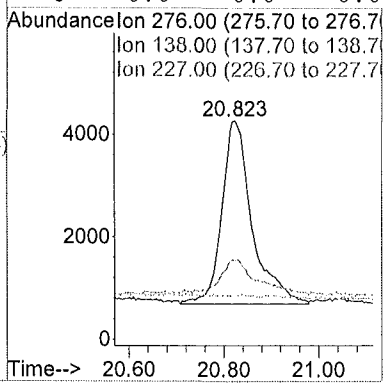




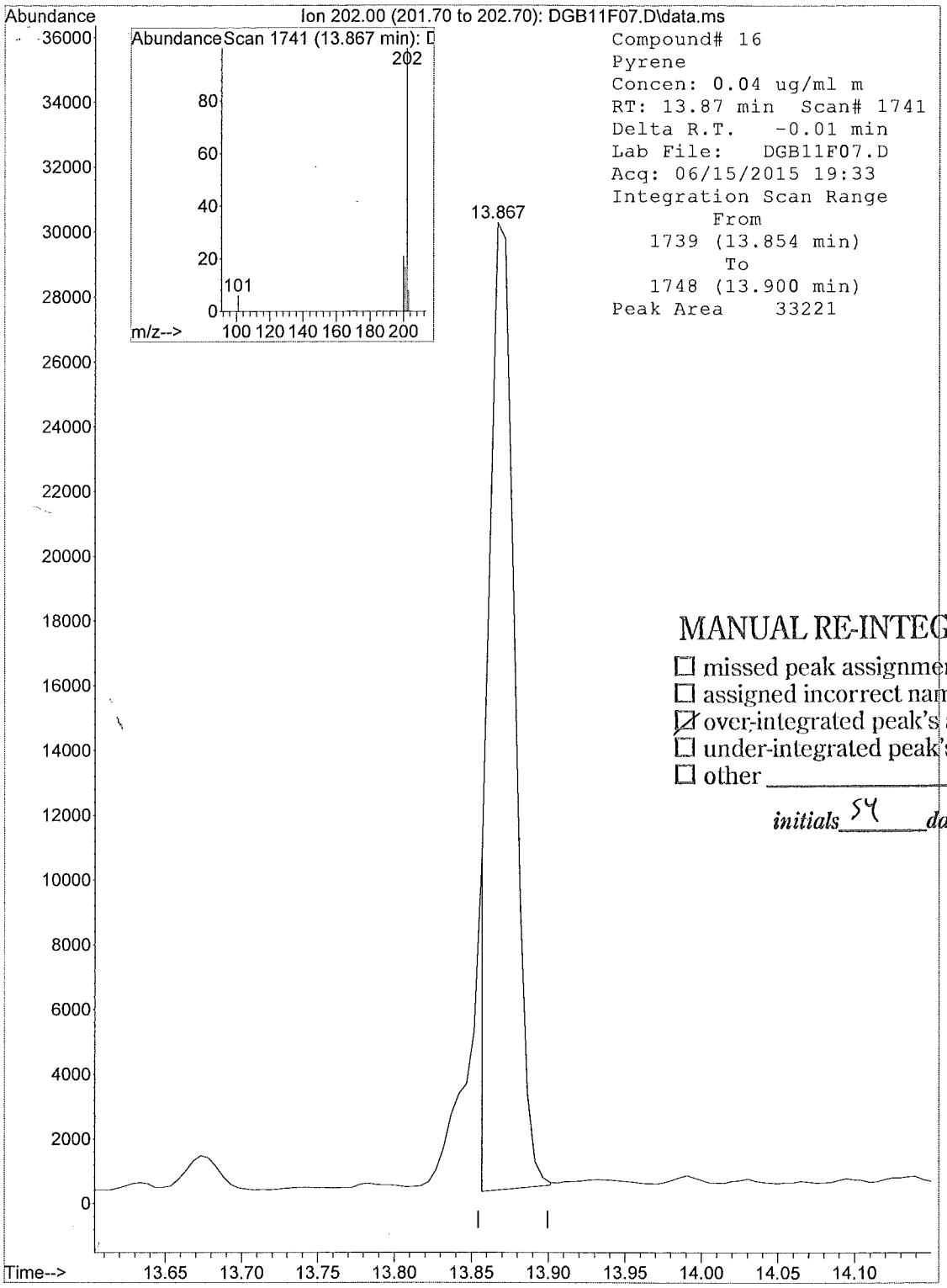
#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.02 ug/ml
RT: 20.82 min Scan# 3169
Delta R.T. -0.03 min
Lab File: DGB11F07.D
Acq: 06/15/2015 19:33

Tgt Ion:276 Resp: 15807

Ion	Ratio	Lower	Upper
276	100		
138	19.1	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0



MANUAL INTEGRATION FOR Pyrene



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* 6/18/15

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M28

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542010

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DGB12F10

Extraction: (Type) SONC

% Moisture: 17. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 10.0

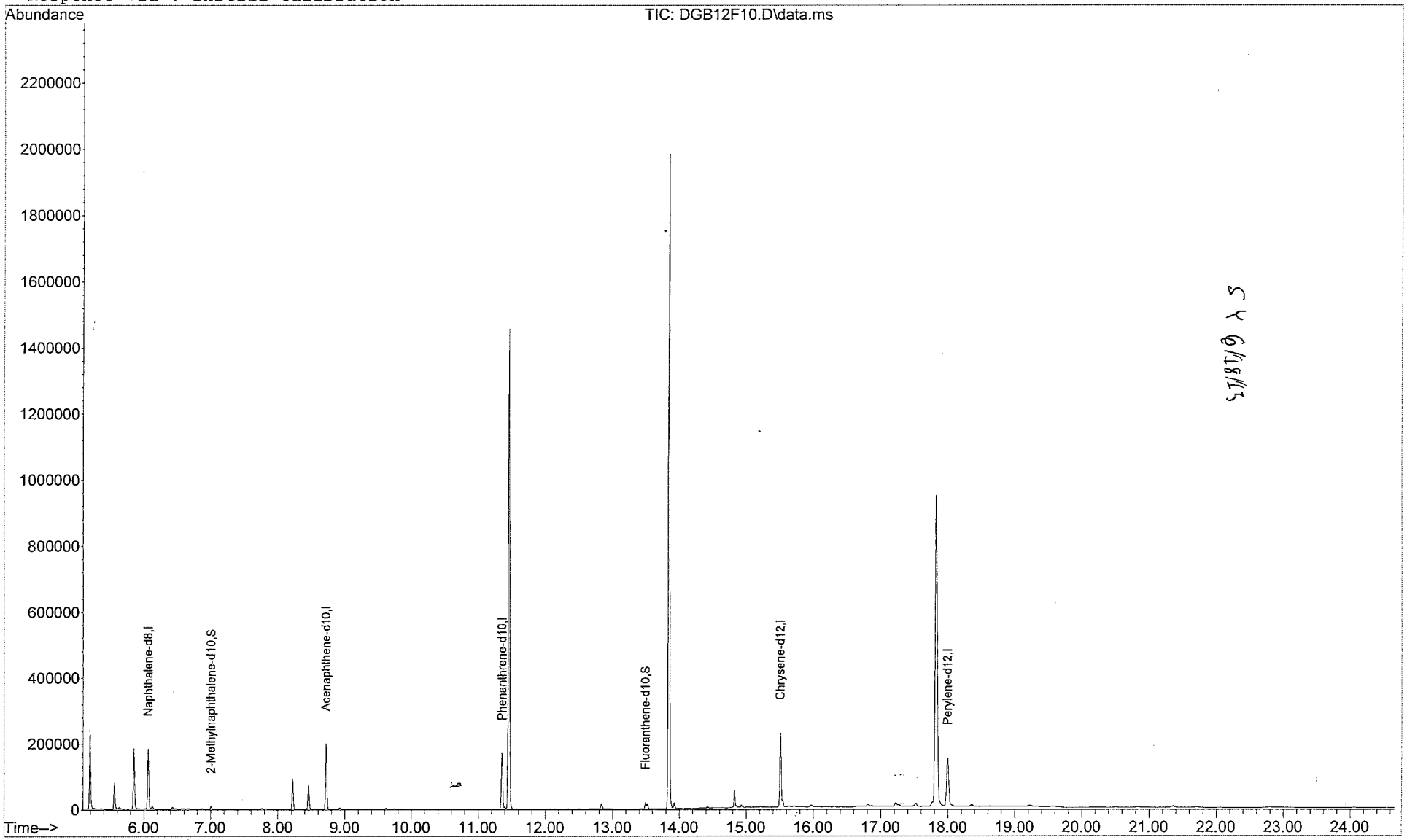
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	40.	U
91-57-6	2-Methylnaphthalene	40.	U
208-96-8	Acenaphthylene	40.	U
83-32-9	Acenaphthene	40.	U
86-73-7	Fluorene	40.	U
87-86-5	Pentachlorophenol	81.	U
85-01-8	Phenanthrene	40.	U
120-12-7	Anthracene	40.	U
206-44-0	Fluoranthene	40.	U
129-00-0	Pyrene	9.0	J
56-55-3	Benzo(a)anthracene	40.	U
218-01-9	Chrysene	9.0	J
205-99-2	Benzo(b)fluoranthene	40.	U
207-08-9	Benzo(k)fluoranthene	40.	U
50-32-8	Benzo(a)pyrene	40.	U
193-39-5	Indeno(1,2,3-cd)pyrene	40.	U
53-70-3	Dibenzo(a,h)anthracene	40.	U
191-24-2	Benzo(g,h,i)perylene	40.	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB12F10.D Vial: 11
Acq On : 06/15/2015 20:03 Operator: SY
Sample : 1515542010 F9M28 (10) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 17 15:00:37 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



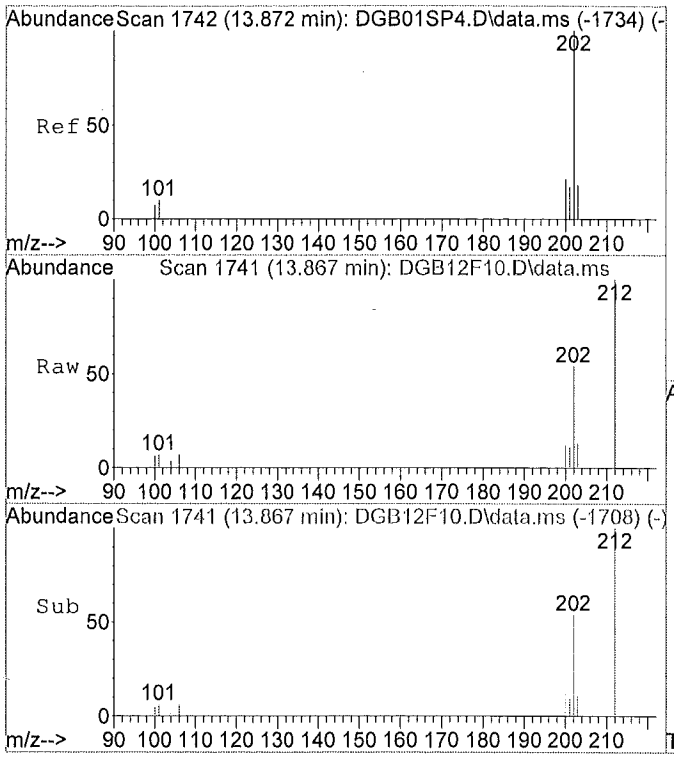
Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB12F10.D Vial: 11
Acq On : 06/15/2015 20:03 Operator: SY
Sample : 1515542010 F9M28 (10) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 17 15:00:37 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	6.06	136	206893	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	136498	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	240197	0.40 ug/ml
15) Chrysene-d12	15.51	240	266619	0.40 ug/ml
19) Perylene-d12	18.00	264	266469	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.00	152	11012	0.033ug/mL
13) Fluoranthene-d10	13.49	212	22562	0.034ug/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	13.87	202	18673	0.022ug/ml m
17) Benzo(a)anthracene	0.00	228		Not Detected
18) Chrysene	15.54	228	16729	0.022ug/ml 96
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

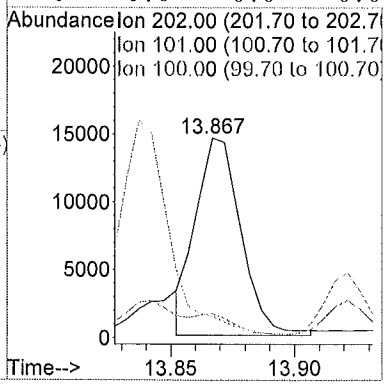
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

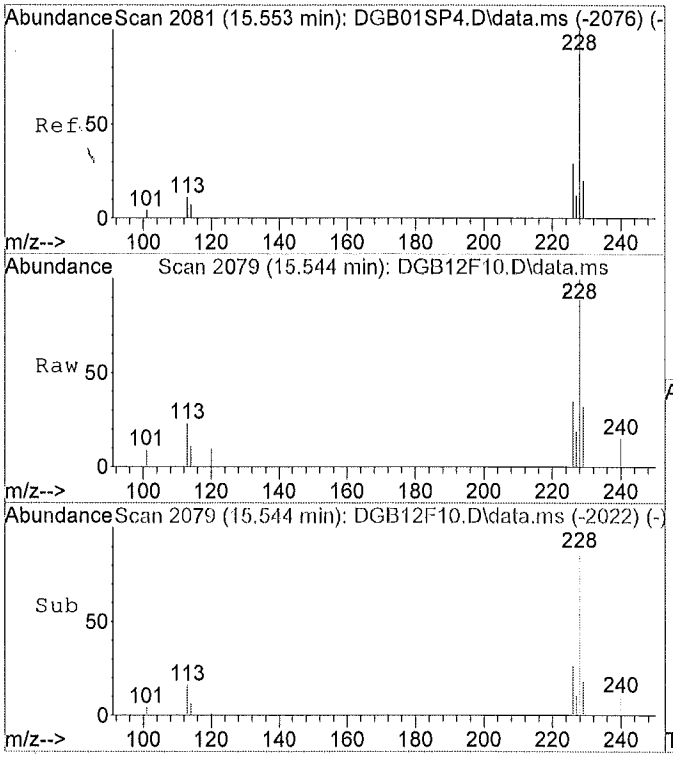


#16
Pyrene
Concen: 0.02 ug/ml m
RT: 13.87 min Scan# 1741
Delta R.T. -0.01 min
Lab File: DGB12F10.D
Acq: 06/15/2015 20:03

Tgt Ion:202 Resp: 18673

Ion	Ratio	Lower	Upper
202	100		
101	22.7	10.6	19.6#
100	130.1	9.4	17.4#
0	0.0	0.0	0.0

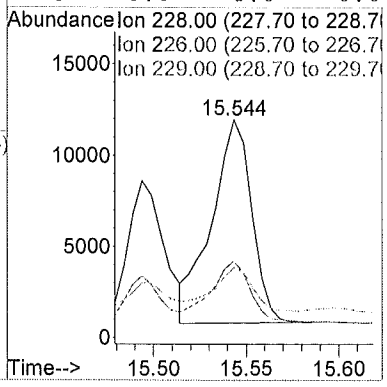




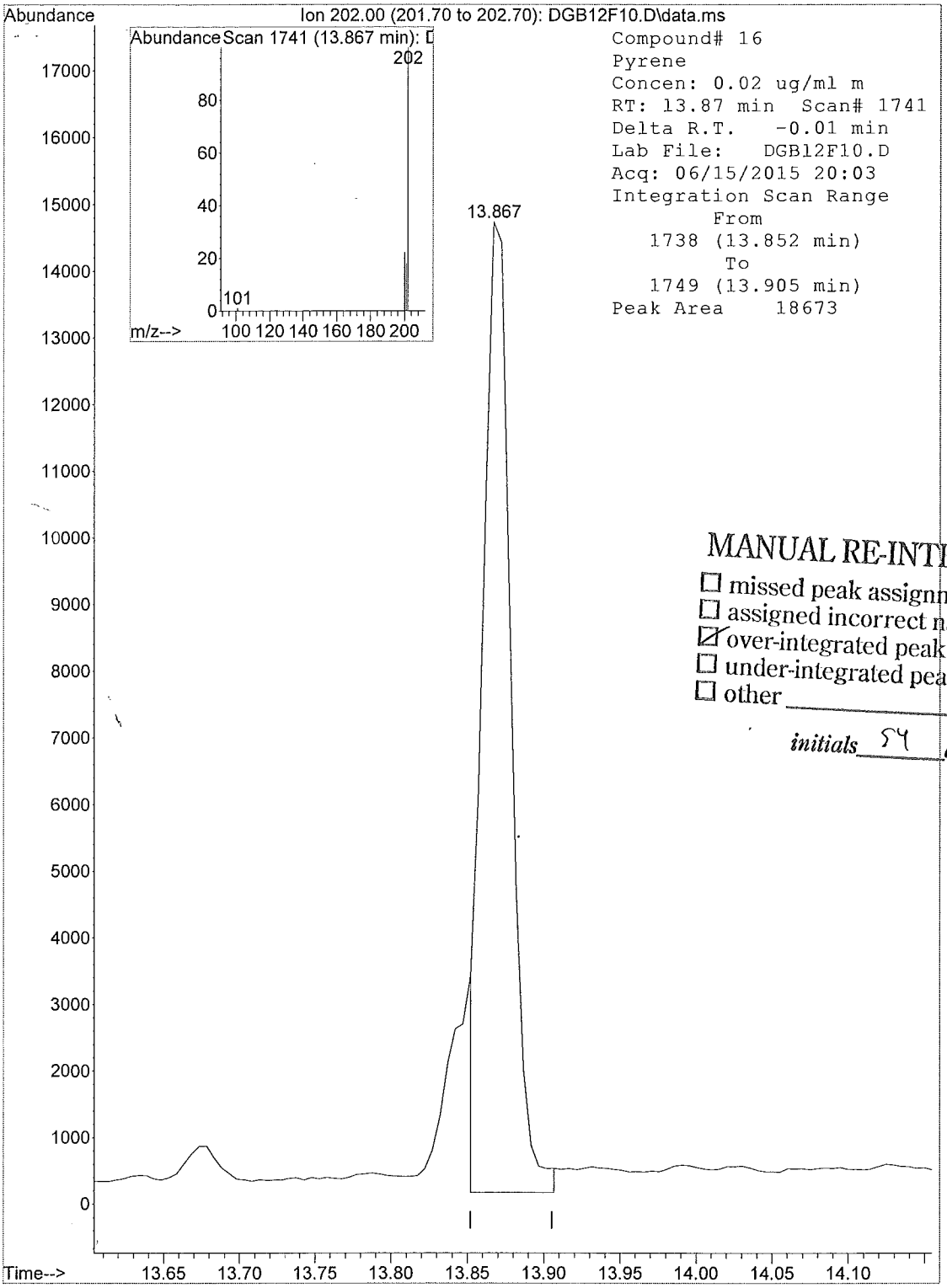
#18
Chrysene
Concen: 0.02 ug/ml
RT: 15.54 min Scan# 2079
Delta R.T. -0.01 min
Lab File: DGB12F10.D
Acq: 06/15/2015 20:03

Tgt Ion:228 Resp: 16729

Ion	Ratio	Lower	Upper
228	100		
226	31.7	19.7	36.7
229	20.2	14.5	26.9
0	0.0	0.0	0.0



MANUAL INTEGRATION FOR Pyrene



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* 6/19/15

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M29

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542011

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DGB13F11

Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015

GPC Cleanup: (Y/N) Y pH: 8.2 Dilution Factor: 5.0

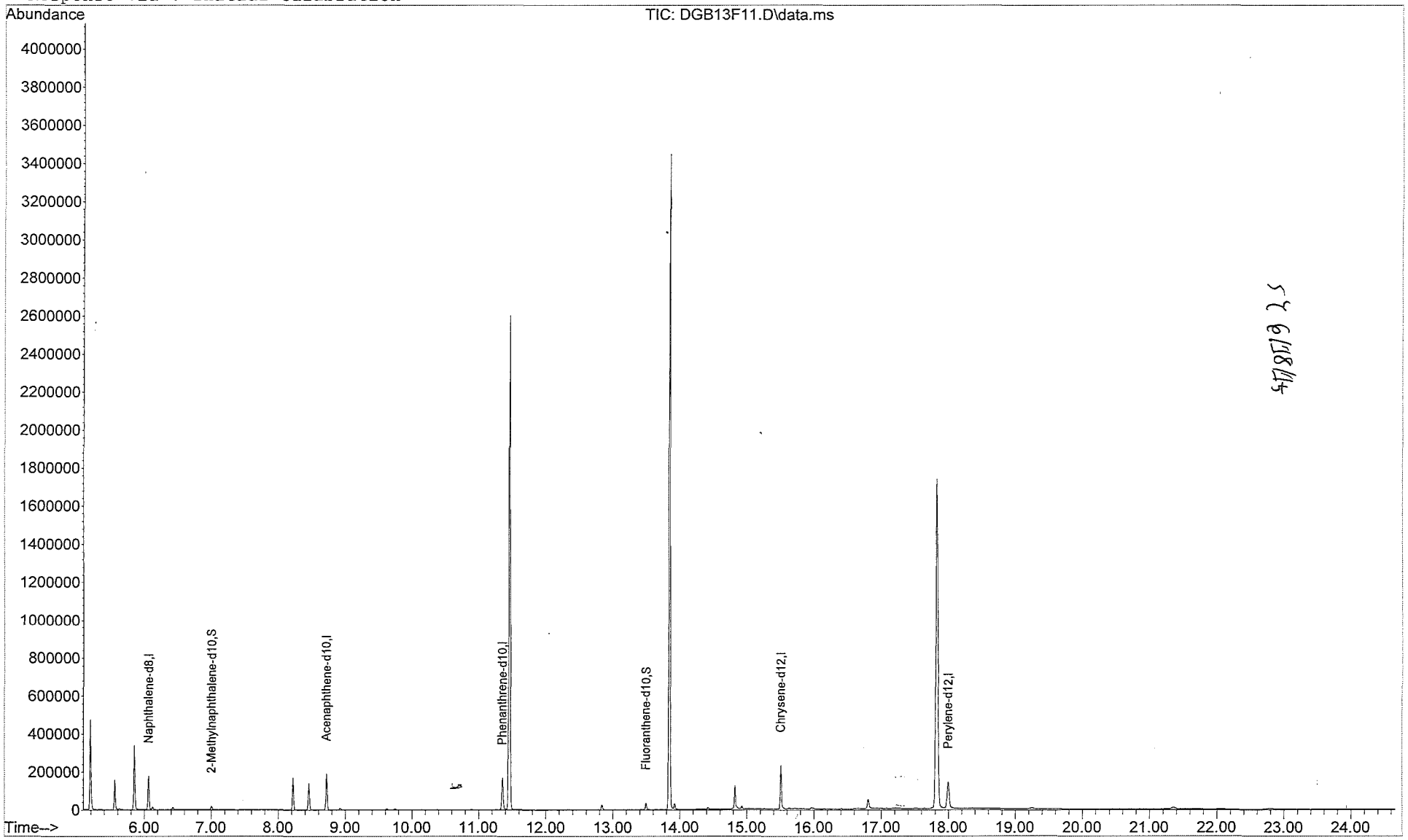
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	19.	U
91-57-6	2-Methylnaphthalene	19.	U
208-96-8	Acenaphthylene	19.	U
83-32-9	Acenaphthene	19.	U
86-73-7	Fluorene	19.	U
87-86-5	Pentachlorophenol	38.	U
85-01-8	Phenanthrene	19.	U
120-12-7	Anthracene	19.	U
206-44-0	Fluoranthene	19.	U
129-00-0	Pyrene	19.	U
56-55-3	Benzo(a)anthracene	19.	U
218-01-9	Chrysene	19.	U
205-99-2	Benzo(b)fluoranthene	19.	U
207-08-9	Benzo(k)fluoranthene	19.	U
50-32-8	Benzo(a)pyrene	19.	U
193-39-5	Indeno(1,2,3-cd)pyrene	19.	U
53-70-3	Dibenzo(a,h)anthracene	19.	U
191-24-2	Benzo(g,h,i)perylene	19.	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB13F11.D Vial: 12
Acq On : 06/15/2015 20:33 Operator: SY
Sample : 1515542011 F9M29 (5) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 15 20:58:06 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...IM\15JUN15\DGB13F11.D Vial: 12
Acq On : 06/15/2015 20:33 Operator: SY
Sample : 1515542011 F9M29 (5) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 15 20:58:06 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
1) Naphthalene-d8	6.06	136	197569	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	130933	0.40 ug/ml
9) Phenanthrene-d10	11.35	188	229201	0.40 ug/ml
15) Chrysene-d12	15.51	240	253465	0.40 ug/ml
19) Perylene-d12	18.00	264	256748	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.00	152	20621	0.065ug/mL
13) Fluoranthene-d10	13.49	212	39544	0.063ug/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)

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M30

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542012

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DGB14F12

Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015

GPC Cleanup: (Y/N) Y pH: 8.2 Dilution Factor: 5.0

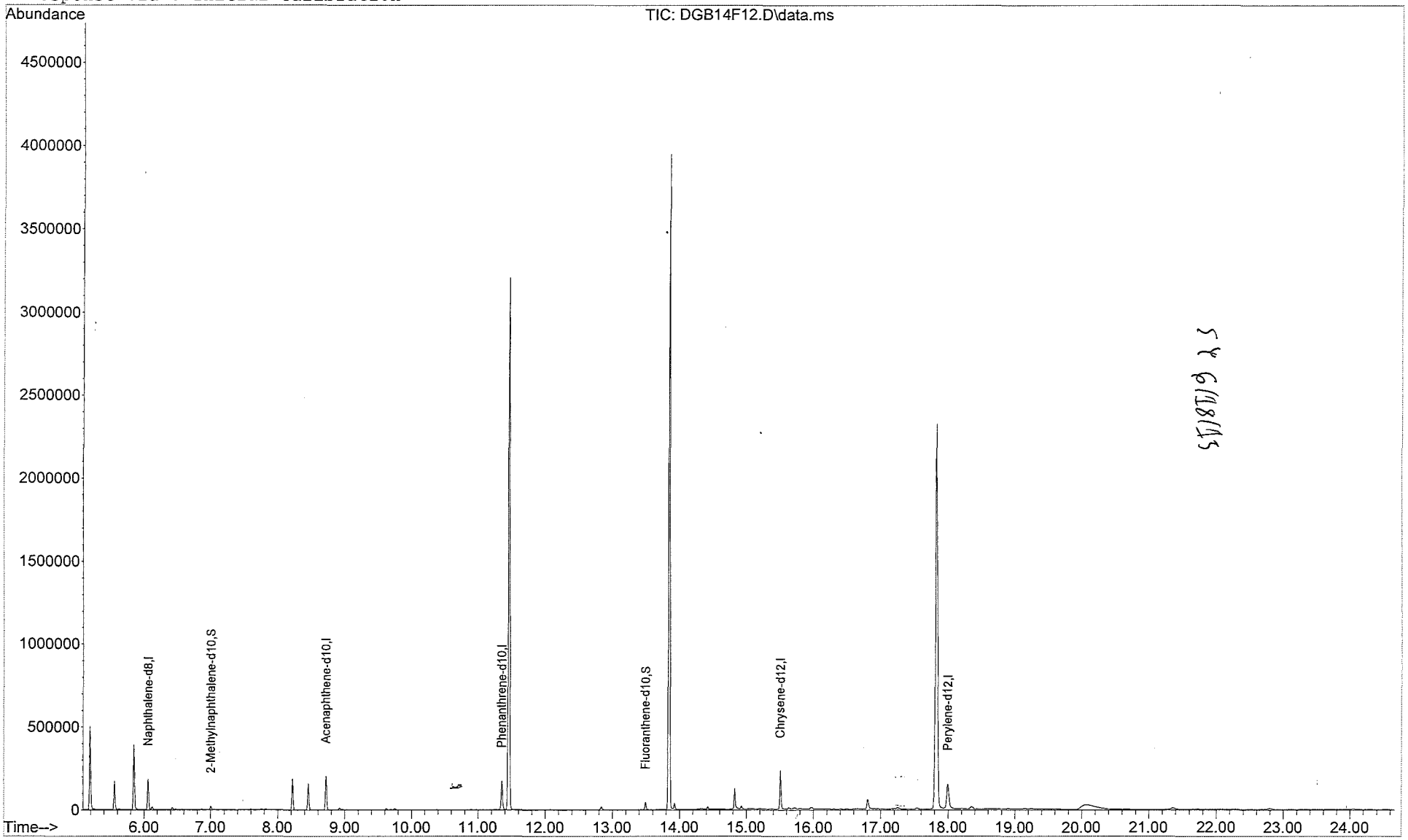
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	19.	U
91-57-6	2-Methylnaphthalene	19.	U
208-96-8	Acenaphthylene	19.	U
83-32-9	Acenaphthene	19.	U
86-73-7	Fluorene	19.	U
87-86-5	Pentachlorophenol	39.	U
85-01-8	Phenanthrene	19.	U
120-12-7	Anthracene	19.	U
206-44-0	Fluoranthene	19.	U
129-00-0	Pyrene	19.	U
56-55-3	Benzo(a)anthracene	19.	U
218-01-9	Chrysene	19.	U
205-99-2	Benzo(b)fluoranthene	19.	U
207-08-9	Benzo(k)fluoranthene	19.	U
50-32-8	Benzo(a)pyrene	19.	U
193-39-5	Indeno(1,2,3-cd)pyrene	19.	U
53-70-3	Dibenzo(a,h)anthracene	19.	U
191-24-2	Benzo(g,h,i)perylene	19.	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB14F12.D Vial: 13
Acq On : 06/15/2015 21:03 Operator: SY
Sample : 1515542012 F9M30 (5) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 15 21:27:50 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\15JUN15\DGB14F12.D Vial: 13
Acq On : 06/15/2015 21:03 Operator: SY
Sample : 1515542012 F9M30 (5) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 15 21:27:50 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	6.06	136	204801	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	136002	0.40 ug/ml
9) Phenanthrene-d10	11.35	188	239493	0.40 ug/ml
15) Chrysene-d12	15.51	240	262054	0.40 ug/ml
19) Perylene-d12	18.00	264	267625	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.00	152	21951	0.066ug/mL
13) Fluoranthene-d10	13.49	212	47324	0.072ug/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)

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M31

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542013

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DGB15F13

Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 10.0

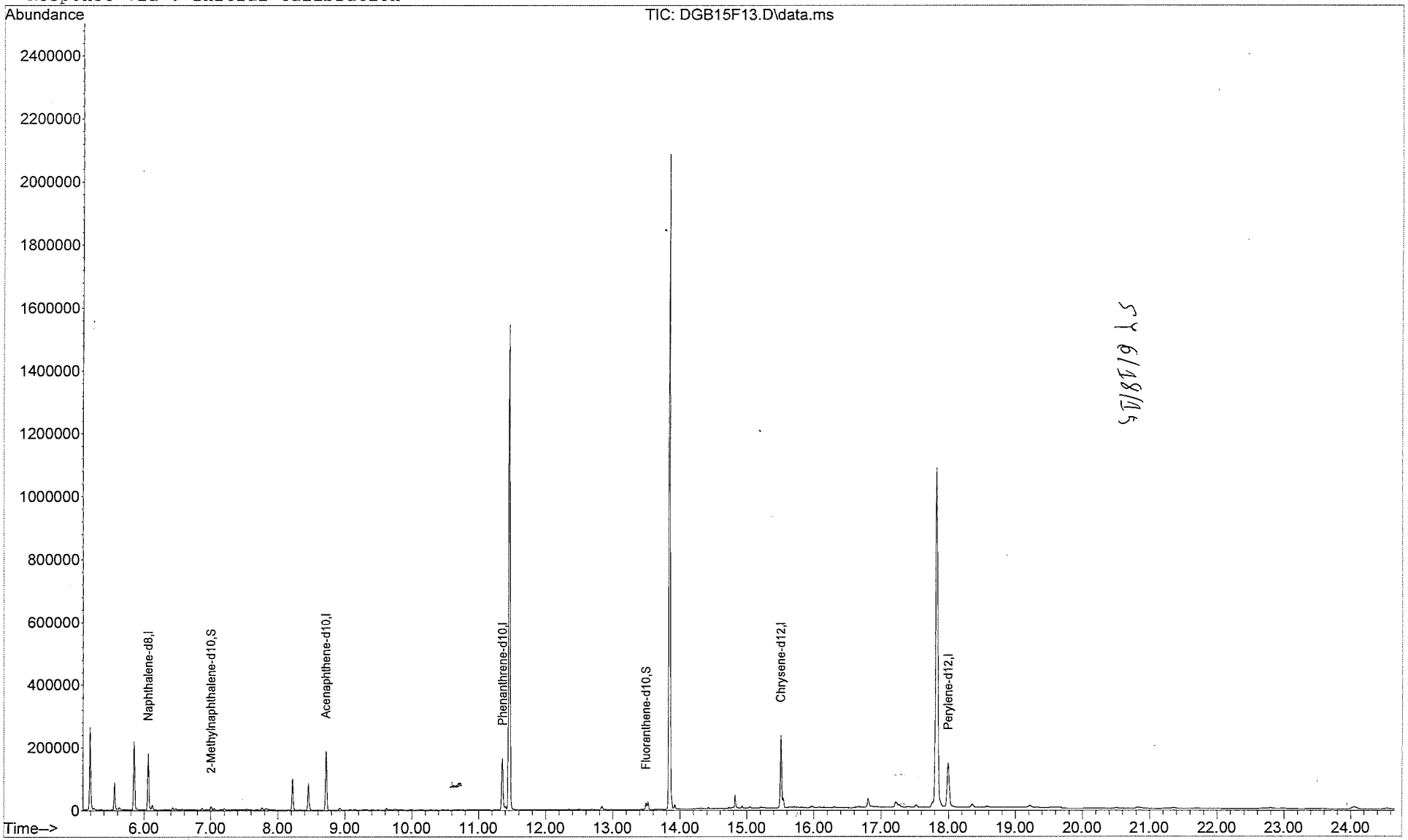
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	39.	U
91-57-6	2-Methylnaphthalene	39.	U
208-96-8	Acenaphthylene	39.	U
83-32-9	Acenaphthene	39.	U
86-73-7	Fluorene	39.	U
87-86-5	Pentachlorophenol	78.	U
85-01-8	Phenanthrene	39.	U
120-12-7	Anthracene	39.	U
206-44-0	Fluoranthene	9.8	J
129-00-0	Pyrene	13.	J
56-55-3	Benzo(a)anthracene	8.7	J
218-01-9	Chrysene	14.	J
205-99-2	Benzo(b)fluoranthene	11.	J
207-08-9	Benzo(k)fluoranthene	39.	U
50-32-8	Benzo(a)pyrene	39.	U
193-39-5	Indeno(1,2,3-cd)pyrene	39.	U
53-70-3	Dibenzo(a,h)anthracene	39.	U
191-24-2	Benzo(g,h,i)perylene	39.	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB15F13.D Vial: 14
Acq On : 06/15/2015 21:32 Operator: SY
Sample : 1515542013 F9M31 (10) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 17 15:01:29 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



Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB15F13.D Vial: 14
Acq On : 06/15/2015 21:32 Operator: SY
Sample : 1515542013 F9M31 (10) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 17 15:01:29 2015 Results File: DSOM_SIMJ2.RES

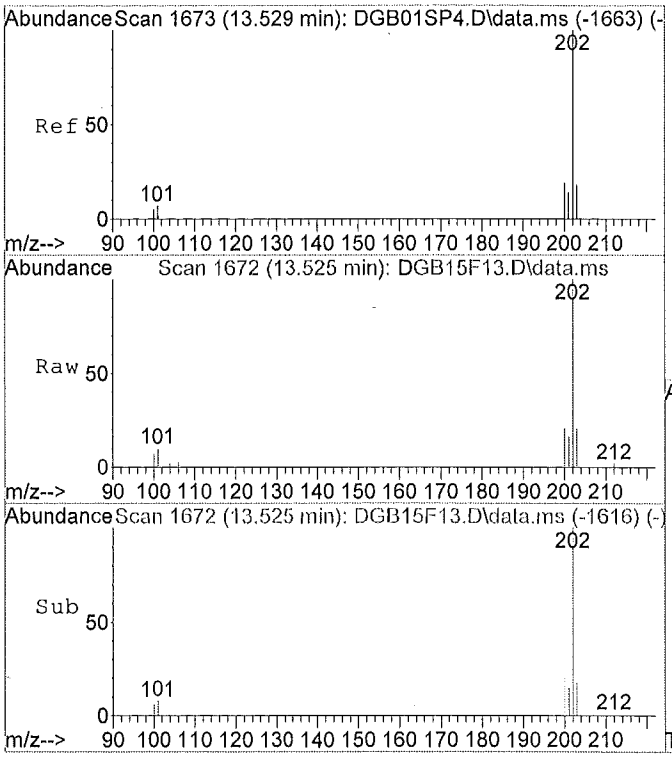
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Qvalue
1) Naphthalene-d8	6.06	136	197772	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	130182	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	231697	0.40 ug/ml	
15) Chrysene-d12	15.51	240	255379	0.40 ug/ml	
19) Perylene-d12	18.00	264	256542	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	12235	0.038ug/mL	
13) Fluoranthene-d10	13.49	212	24056	0.038ug/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	13.52	202	19043	0.025ug/ml	92
16) Pyrene	13.87	202	27258	0.034ug/ml m	75
17) Benzo(a)anthracene	15.49	228	15253	0.022ug/ml	88
18) Chrysene	15.54	228	25534	0.035ug/ml	95
20) Benzo(b)fluoranthene	17.22	252	22800	0.029ug/ml	99
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	

SY 6/18/15

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

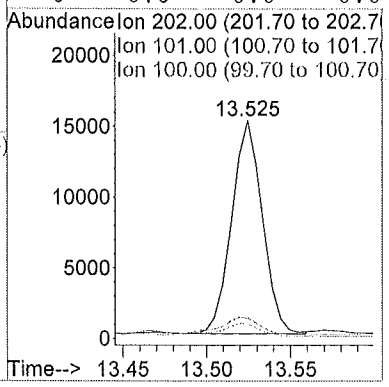
00714

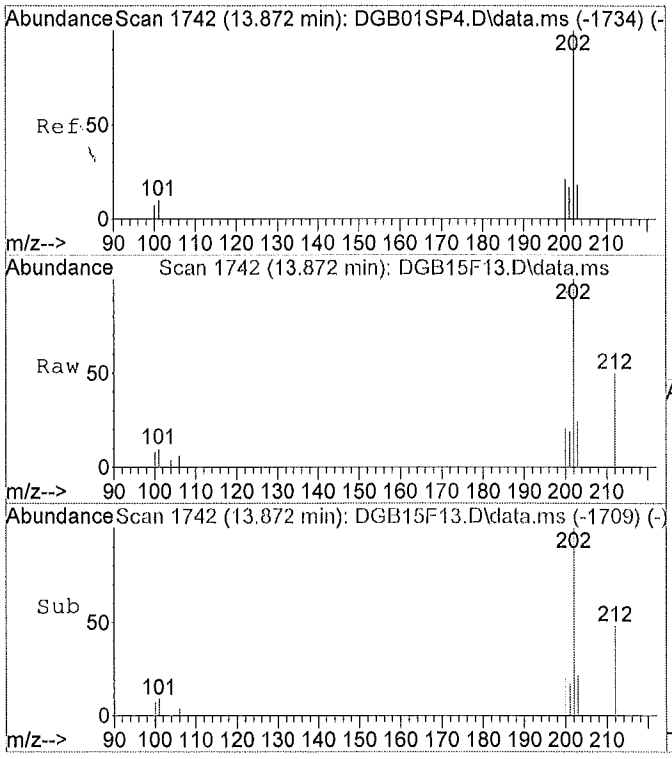


#14
Fluoranthene
Concen: 0.03 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DGB15F13.D
Acq: 06/15/2015 21:32

Tgt Ion:202 Resp: 19043

Ion	Ratio	Lower	Upper
202	100		
101	10.4	9.4	17.6
100	8.4	0.0	0.0#
0	0.0	0.0	0.0

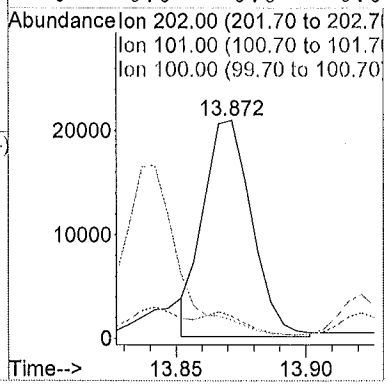


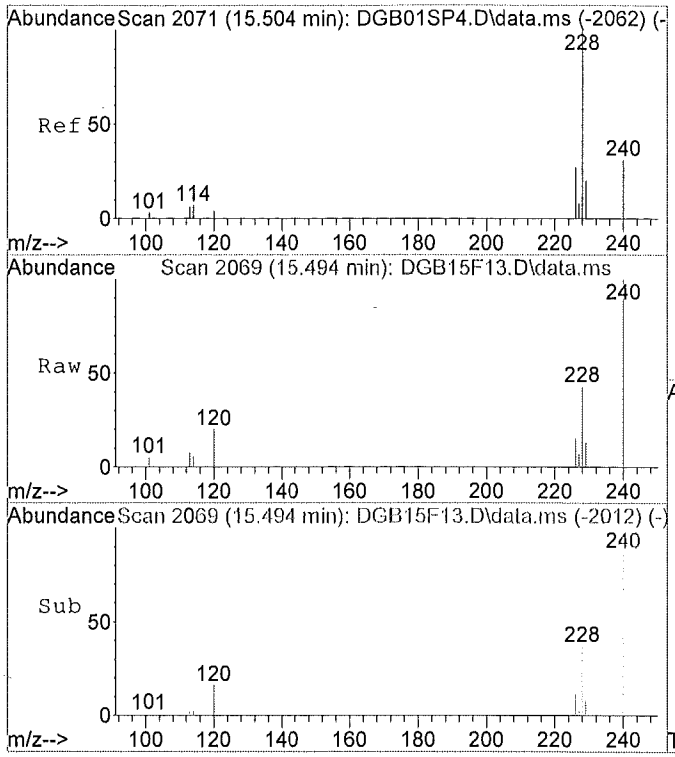


#16
Pyrene
Concen: 0.03 ug/ml m
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DGB15F13.D
Acq: 06/15/2015 21:32

Tgt Ion:202 Resp: 27258

Ion	Ratio	Lower	Upper
202	100		
101	8.7	10.6	19.6#
100	0.0	9.4	17.4#
0	0.0	0.0	0.0

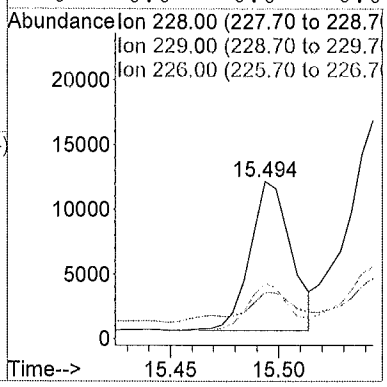


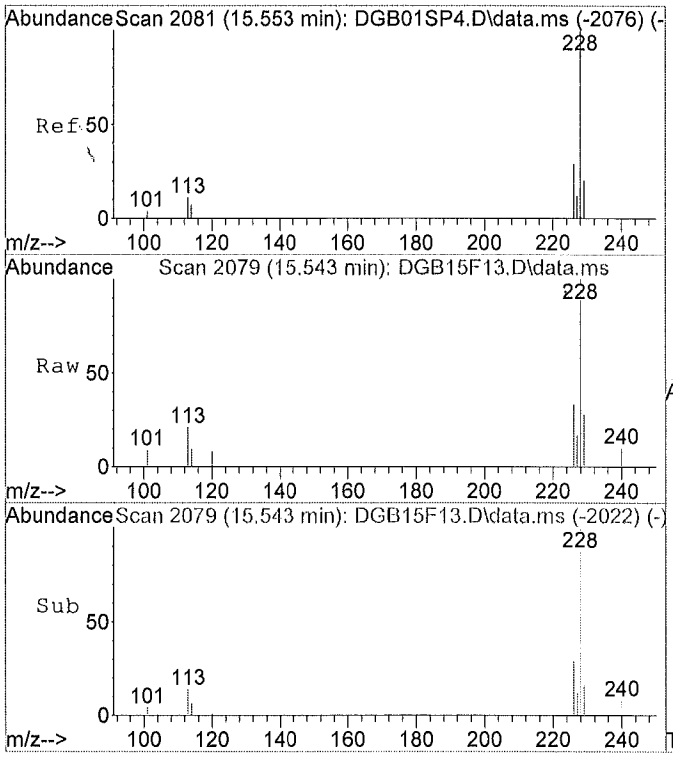


#17
Benzo(a)anthracene
Concen: 0.02 ug/ml
RT: 15.49 min Scan# 2069
Delta R.T. -0.01 min
Lab File: DGB15F13.D
Acq: 06/15/2015 21:32

Tgt Ion:228 Resp: 15253

Ion	Ratio	Lower	Upper
228	100		
229	26.6	14.5	26.9
226	32.5	18.5	34.3
0	0.0	0.0	0.0

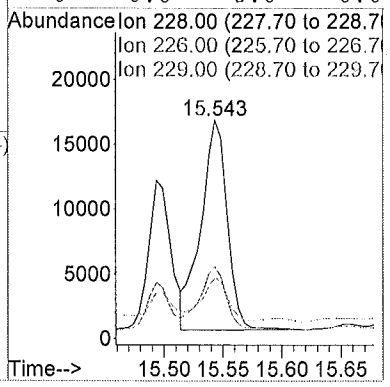


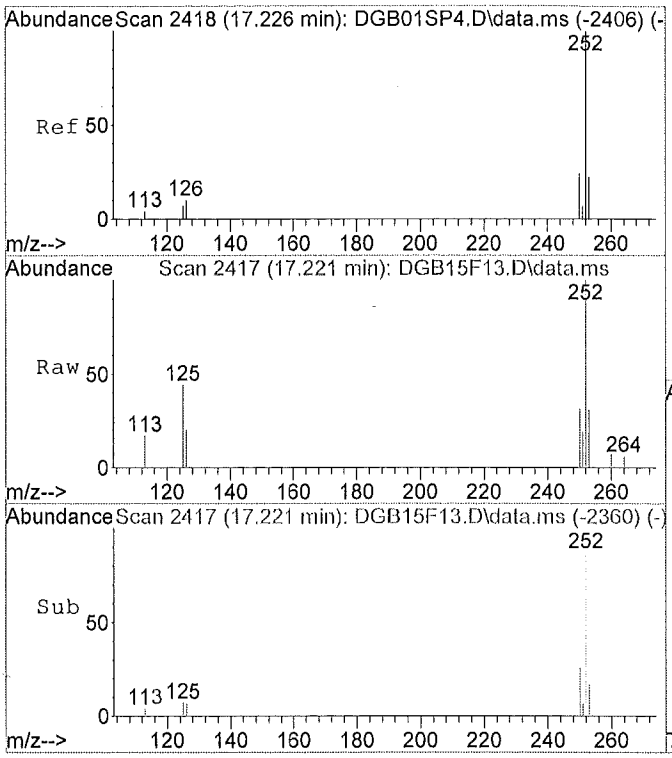


#18
Chrysene
Concen: 0.04 ug/ml
RT: 15.54 min Scan# 2079
Delta R.T. -0.01 min
Lab File: DGB15F13.D
Acq: 06/15/2015 21:32

Tgt Ion:228 Resp: 25534

Ion	Ratio	Lower	Upper
228	100		
226	31.2	19.7	36.7
229	19.0	14.5	26.9
0	0.0	0.0	0.0

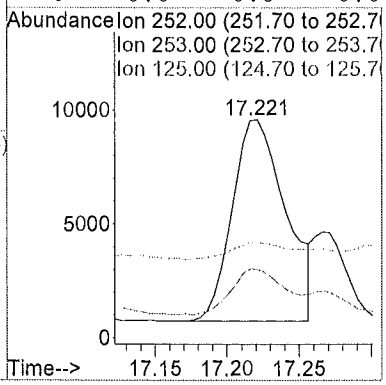




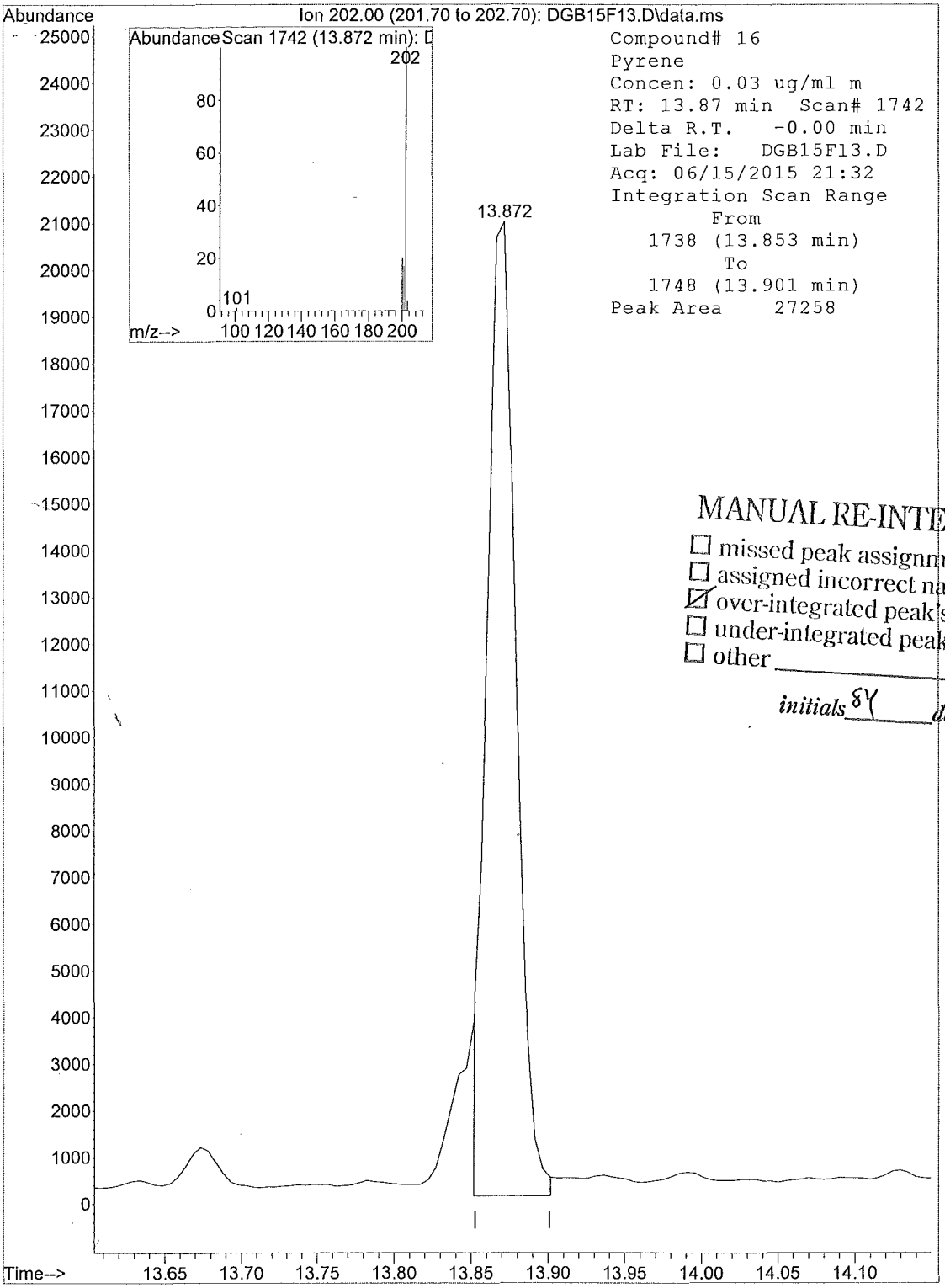
#20
Benzo(b)fluoranthene
Concen: 0.03 ug/ml
RT: 17.22 min Scan# 2417
Delta R.T. -0.01 min
Lab File: DGB15F13.D
Acq: 06/15/2015 21:32

Tgt Ion:252 Resp: 22800

Ion	Ratio	Lower	Upper
252	100		
253	22.1	15.3	28.3
125	8.8	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 Pyrene



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* 6/18/15

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M32

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542014

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DGB16F14

Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 10.0

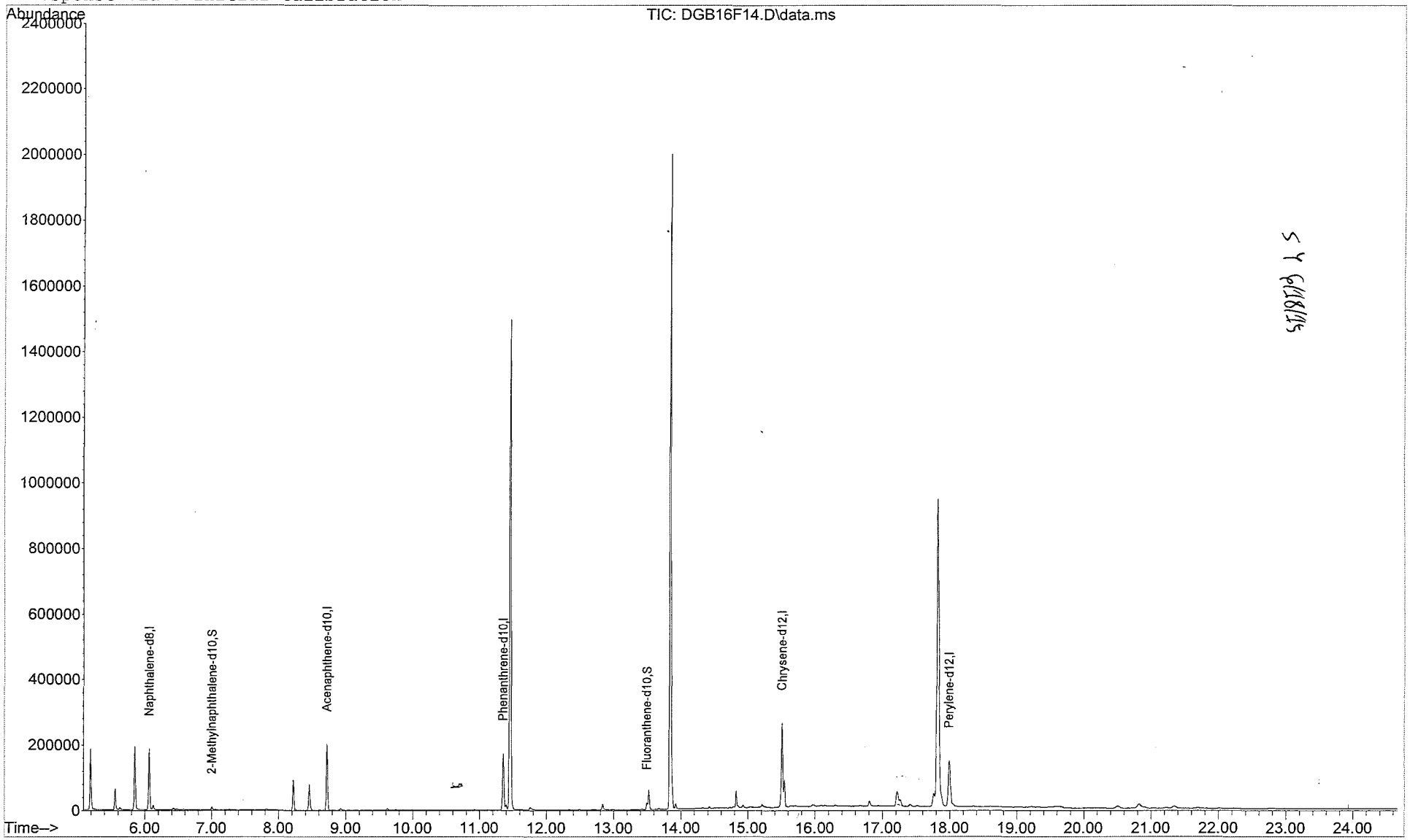
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	38.	U
91-57-6	2-Methylnaphthalene	38.	U
208-96-8	Acenaphthylene	38.	U
83-32-9	Acenaphthene	38.	U
86-73-7	Fluorene	38.	U
87-86-5	Pentachlorophenol	77.	U
85-01-8	Phenanthrene	8.5	J
120-12-7	Anthracene	38.	U
206-44-0	Fluoranthene	23.	J
129-00-0	Pyrene	28.	J
56-55-3	Benzo(a)anthracene	22.	J
218-01-9	Chrysene	34.	J
205-99-2	Benzo(b)fluoranthene	30.	J
207-08-9	Benzo(k)fluoranthene	9.1	J
50-32-8	Benzo(a)pyrene	17.	J
193-39-5	Indeno(1,2,3-cd)pyrene	19.	J
53-70-3	Dibenzo(a,h)anthracene	38.	U
191-24-2	Benzo(g,h,i)perylene	38.	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB16F14.D Vial: 15
Acq On : 06/15/2015 22:02 Operator: SY
Sample : 1515542014 F9M32 (10) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 17 15:02:01 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



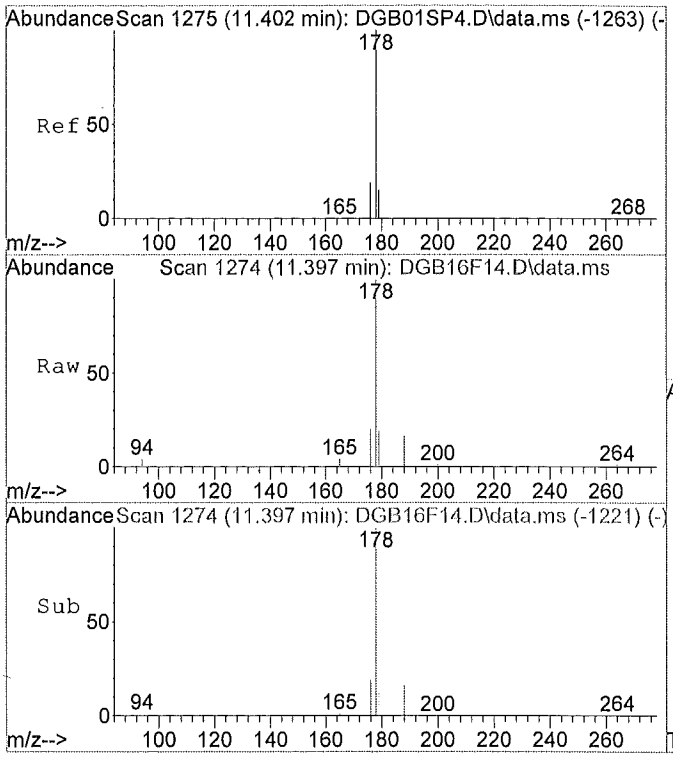
Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB16F14.D Vial: 15
Acq On : 06/15/2015 22:02 Operator: SY
Sample : 1515542014 F9M32 (10) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 17 15:02:01 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	6.06	136	206825	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	135285	0.40 ug/ml	
9) Phenanthrene-d10	11.35	188	239649	0.40 ug/ml	
15) Chrysene-d12	15.51	240	266551	0.40 ug/ml	
19) Perylene-d12	17.99	264	255949	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	10194	0.031ug/mL	
13) Fluoranthene-d10	13.49	212	23426	0.036ug/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	11.40	178	15245	0.022ug/ml	99
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.52	202	47832	0.06lug/ml	88
16) Pyrene	13.87	202	60077	0.072ug/ml m	77
17) Benzo(a)anthracene	15.49	228	39789	0.056ug/ml	91
18) Chrysene	15.54	228	66413	0.088ug/ml	96
20) Benzo(b)fluoranthene	17.22	252	62649	0.079ug/ml	99
21) Benzo(k)fluoranthene	17.27	252	19433	0.024ug/ml m	98
22) Benzo(a)pyrene	17.87.	252	33633	0.044ug/ml	96
23) Indeno(1,2,3-c,d)pyrene	20.82	276	33096	0.050ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	0.00	276		Not Detected	

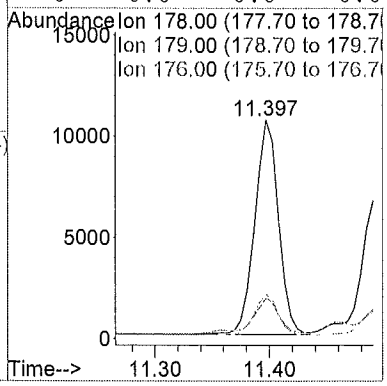
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

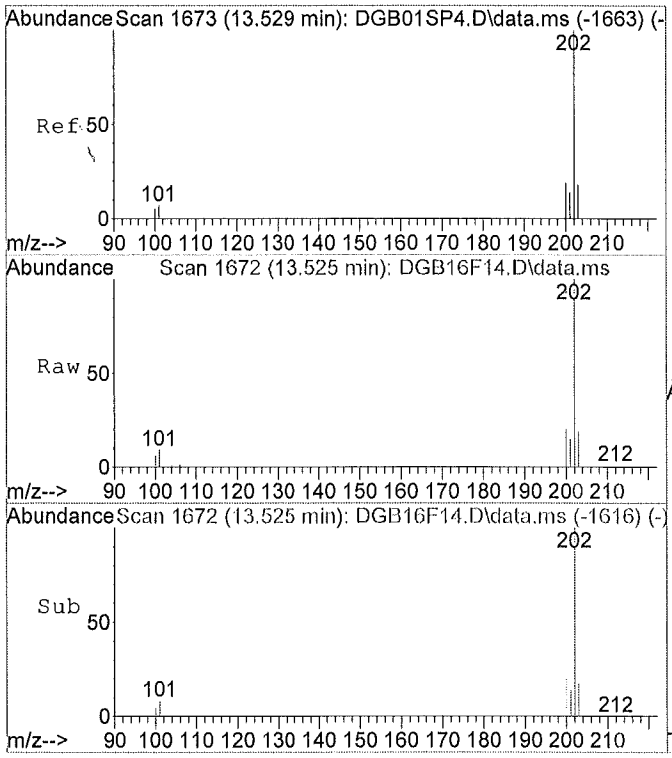


#11
Phenanthrene
Concen: 0.02 ug/ml
RT: 11.40 min Scan# 1274
Delta R.T. -0.01 min
Lab File: DGB16F14.D
Acq: 06/15/2015 22:02

Tgt Ion:178 Resp: 15245

Ion	Ratio	Lower	Upper
178	100		
179	15.5	11.1	20.5
176	19.5	14.1	26.1
0	0.0	0.0	0.0

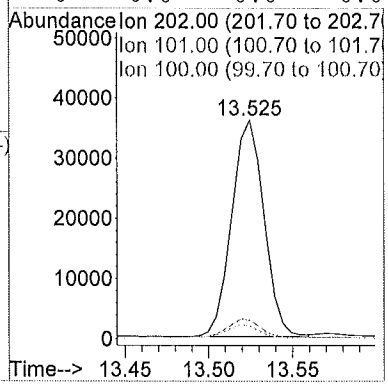




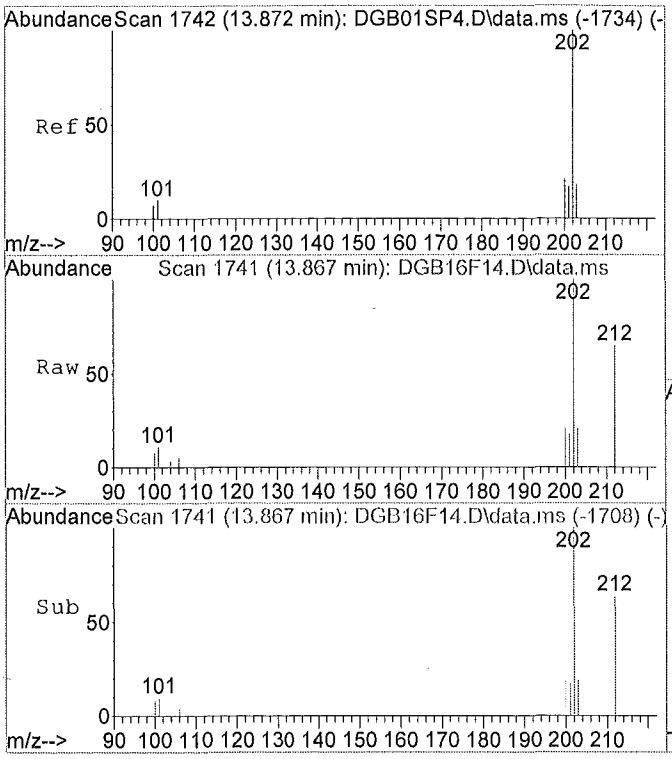
#14
Fluoranthene
Concen: 0.06 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DGB16F14.D
Acq: 06/15/2015 22:02

Tgt Ion:202 Resp: 47832

Ion	Ratio	Lower	Upper
202	100		
101	8.6	9.4	17.6#
100	6.7	0.0	0.0#
0	0.0	0.0	0.0



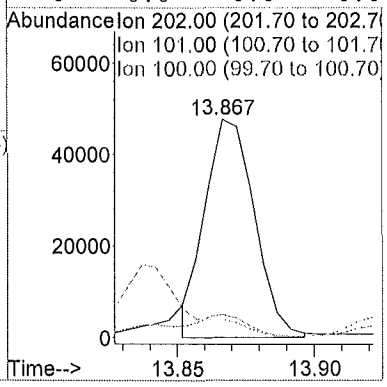
08719

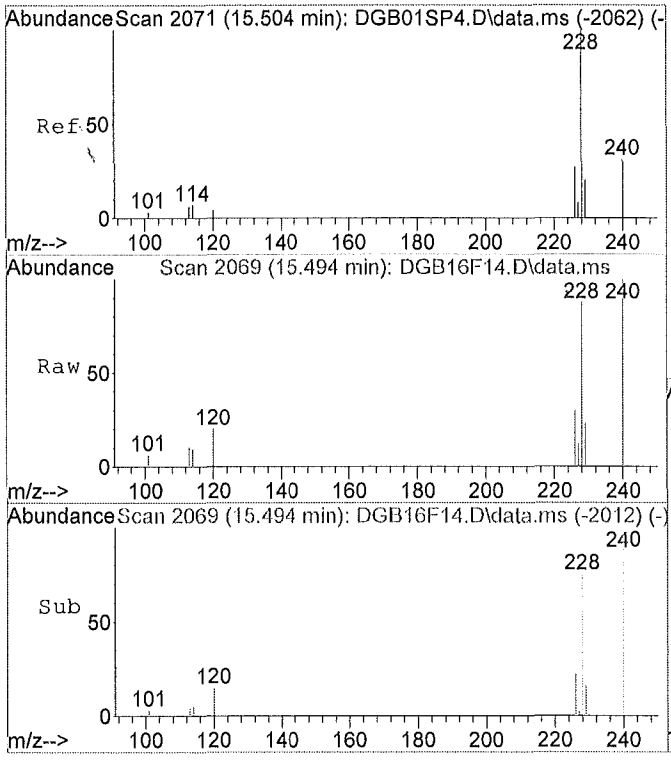


#16
Pyrene
Concen: 0.07 ug/ml m
RT: 13.87 min Scan# 1741
Delta R.T. -0.01 min
Lab File: DGB16F14.D
Acq: 06/15/2015 22:02

Tgt Ion:202 Resp: 60077

Ion	Ratio	Lower	Upper
202	100		
101	9.7	10.6	19.6#
100	0.0	9.4	17.4#
0	0.0	0.0	0.0

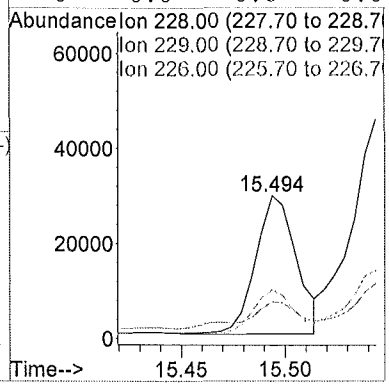


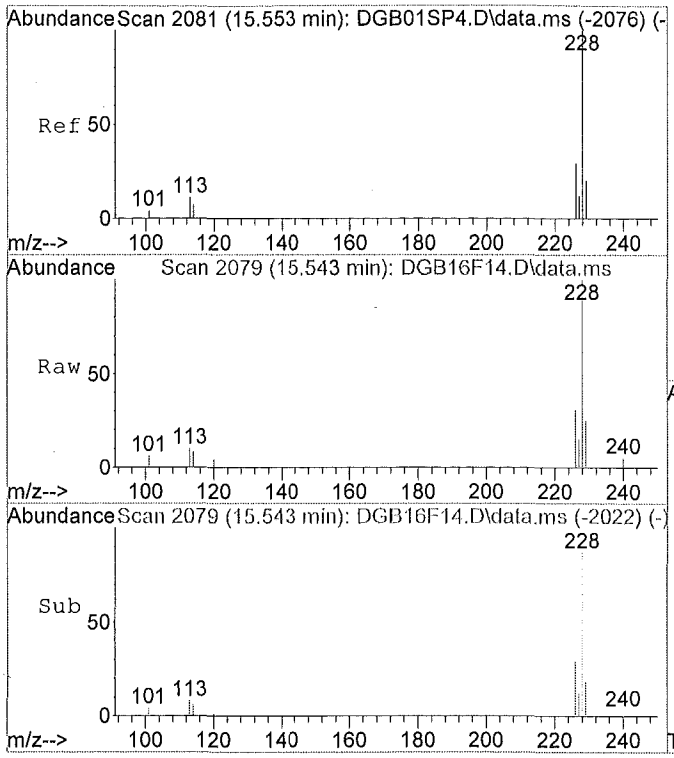


#17
Benzo(a)anthracene
Concen: 0.06 ug/ml
RT: 15.49 min Scan# 2069
Delta R.T. -0.01 min
Lab File: DGB16F14.D
Acq: 06/15/2015 22:02

Tgt Ion:228 Resp: 39789

Ion	Ratio	Lower	Upper
228	100		
229	23.7	14.5	26.9
226	32.2	18.5	34.3
0	0.0	0.0	0.0

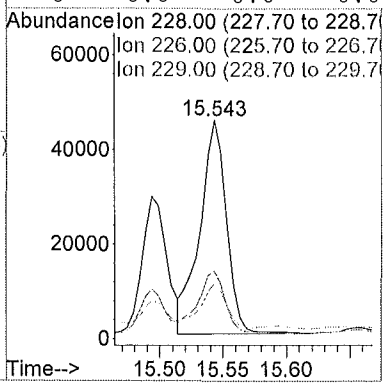


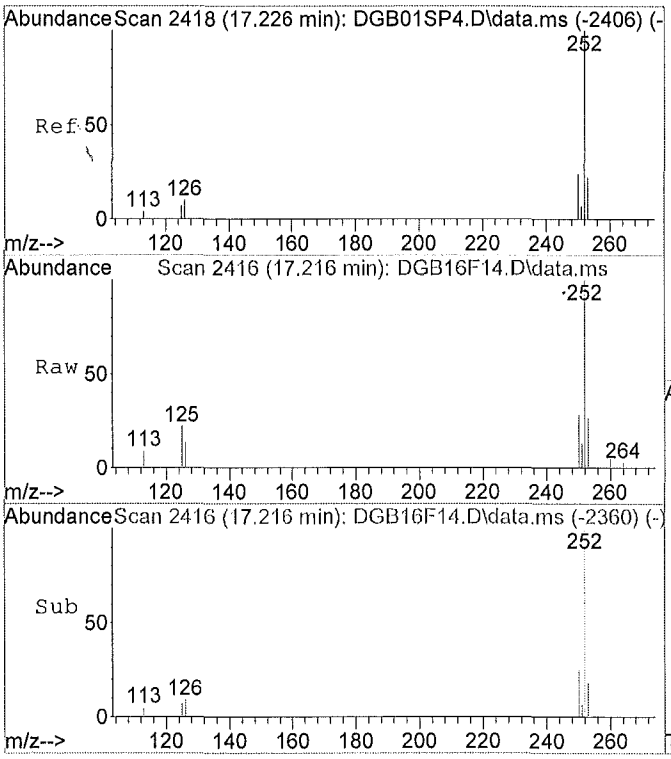


#18
Chrysene
Concen: 0.09 ug/ml
RT: 15.54 min Scan# 2079
Delta R.T. -0.01 min
Lab File: DGB16F14.D
Acq: 06/15/2015 22:02

Tgt Ion:228 Resp: 66413

Ion	Ratio	Lower	Upper
228	100		
226	30.8	19.7	36.7
229	19.9	14.5	26.9
0	0.0	0.0	0.0

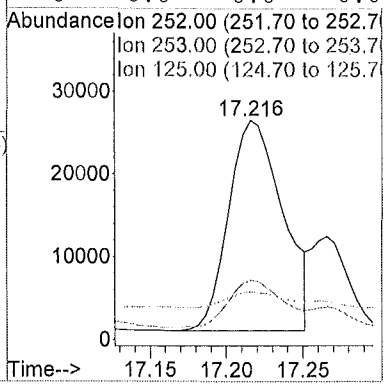




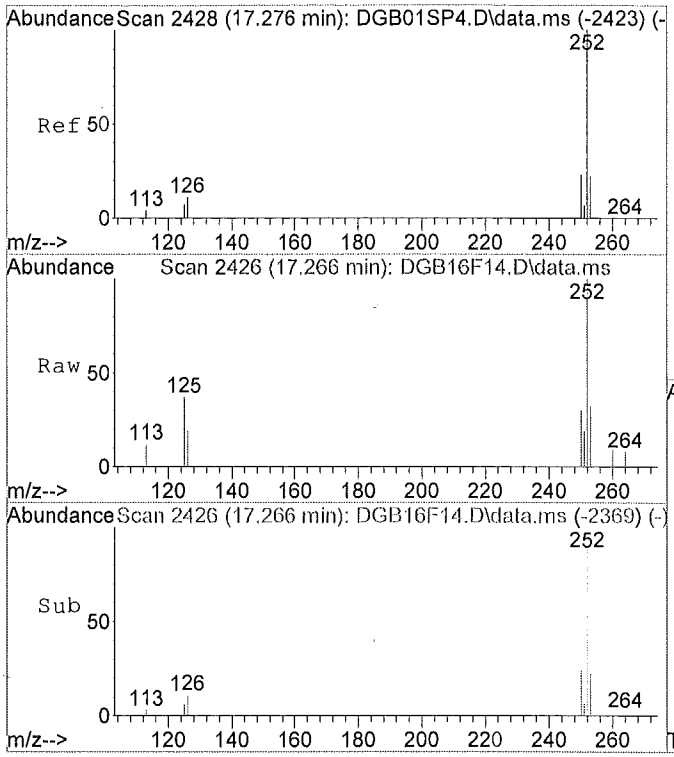
#20
Benzo(b)fluoranthene
Concen: 0.08 ug/ml
RT: 17.22 min Scan# 2416
Delta R.T. -0.01 min
Lab File: DGB16F14.D
Acq: 06/15/2015 22:02

Tgt Ion:252 Resp: 62649

Ion	Ratio	Lower	Upper
252	100		
253	22.4	15.3	28.3
125	8.0	0.0	0.0#
0	0.0	0.0	0.0



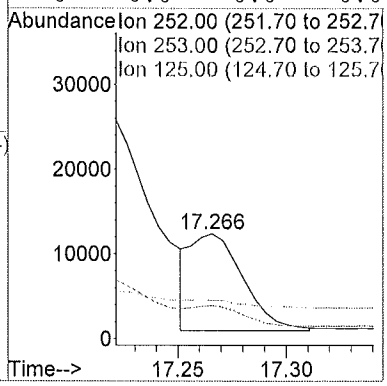
: 007721

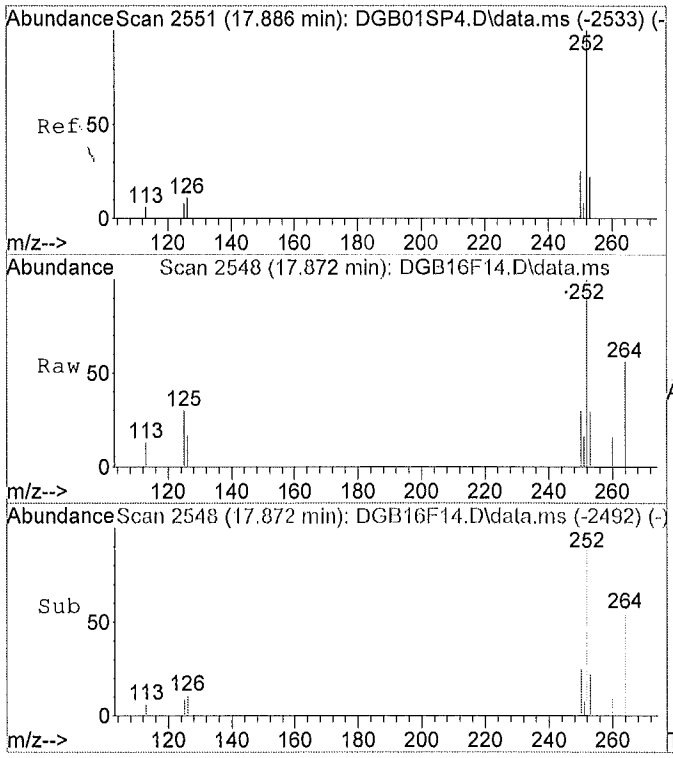


#21
Benzo(k)fluoranthene
Concen: 0.02 ug/ml m
RT: 17.27 min Scan# 2426
Delta R.T. -0.01 min
Lab File: DGB16F14.D
Acq: 06/15/2015 22:02

Tgt Ion:252 Resp: 19433

Ion	Ratio	Lower	Upper
252	100		
253	72.3	15.0	27.8#
125	25.5	0.0	0.0#
0	0.0	0.0	0.0

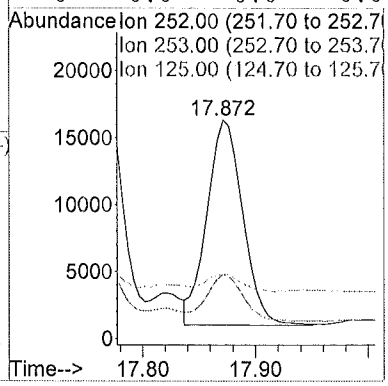


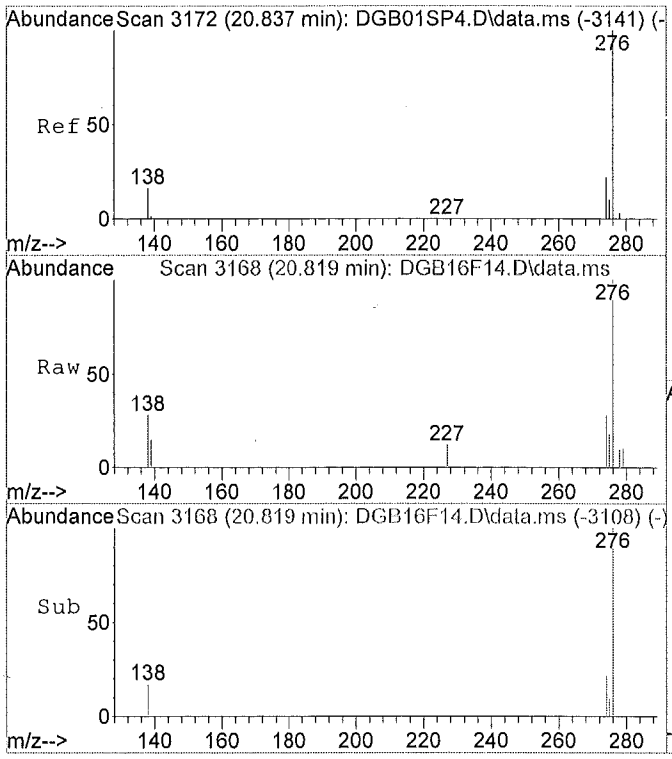


#22
Benzo(a)pyrene
Concen: 0.04 ug/ml
RT: 17.87 min Scan# 2548
Delta R.T. -0.02 min
Lab File: DGB16F14.D
Acq: 06/15/2015 22:02

Tgt Ion:252 Resp: 33633

Ion	Ratio	Lower	Upper
252	100		
253	23.3	15.0	27.8
125	8.9	0.0	0.0#
0	0.0	0.0	0.0

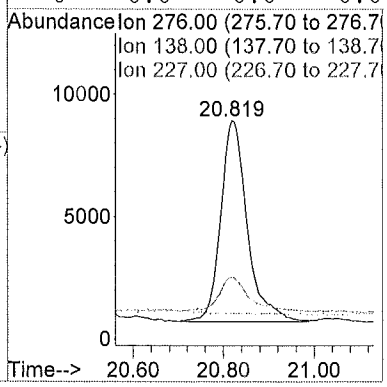




#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.05 ug/ml
RT: 20.82 min Scan# 3168
Delta R.T. -0.03 min
Lab File: DGB16F14.D
Acq: 06/15/2015 22:02

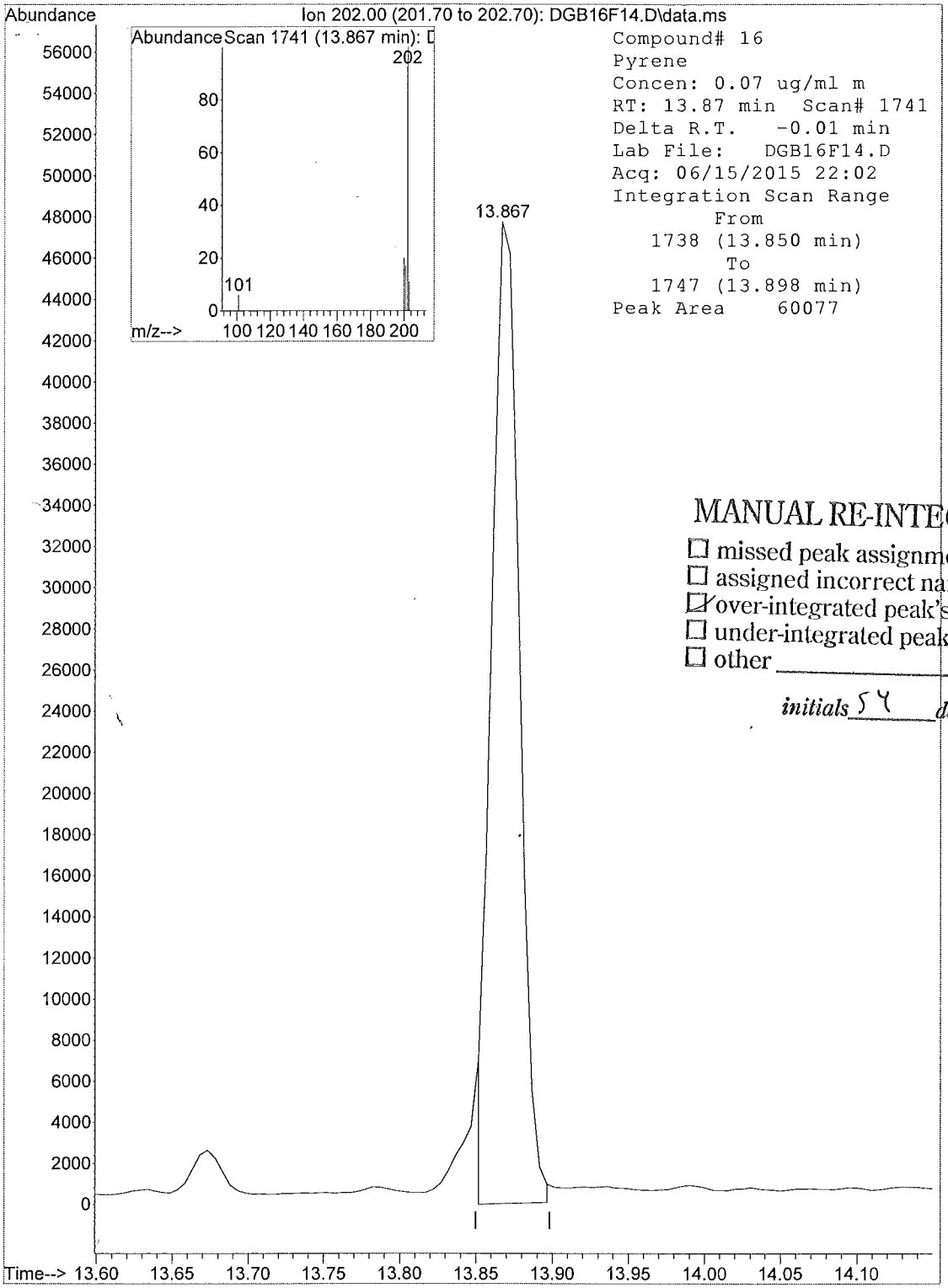
Tgt Ion:276 Resp: 33096

Ion	Ratio	Lower	Upper
276	100		
138	19.4	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0



00723

M A N U A L I N T E G R A T I O N FOR Pyrene

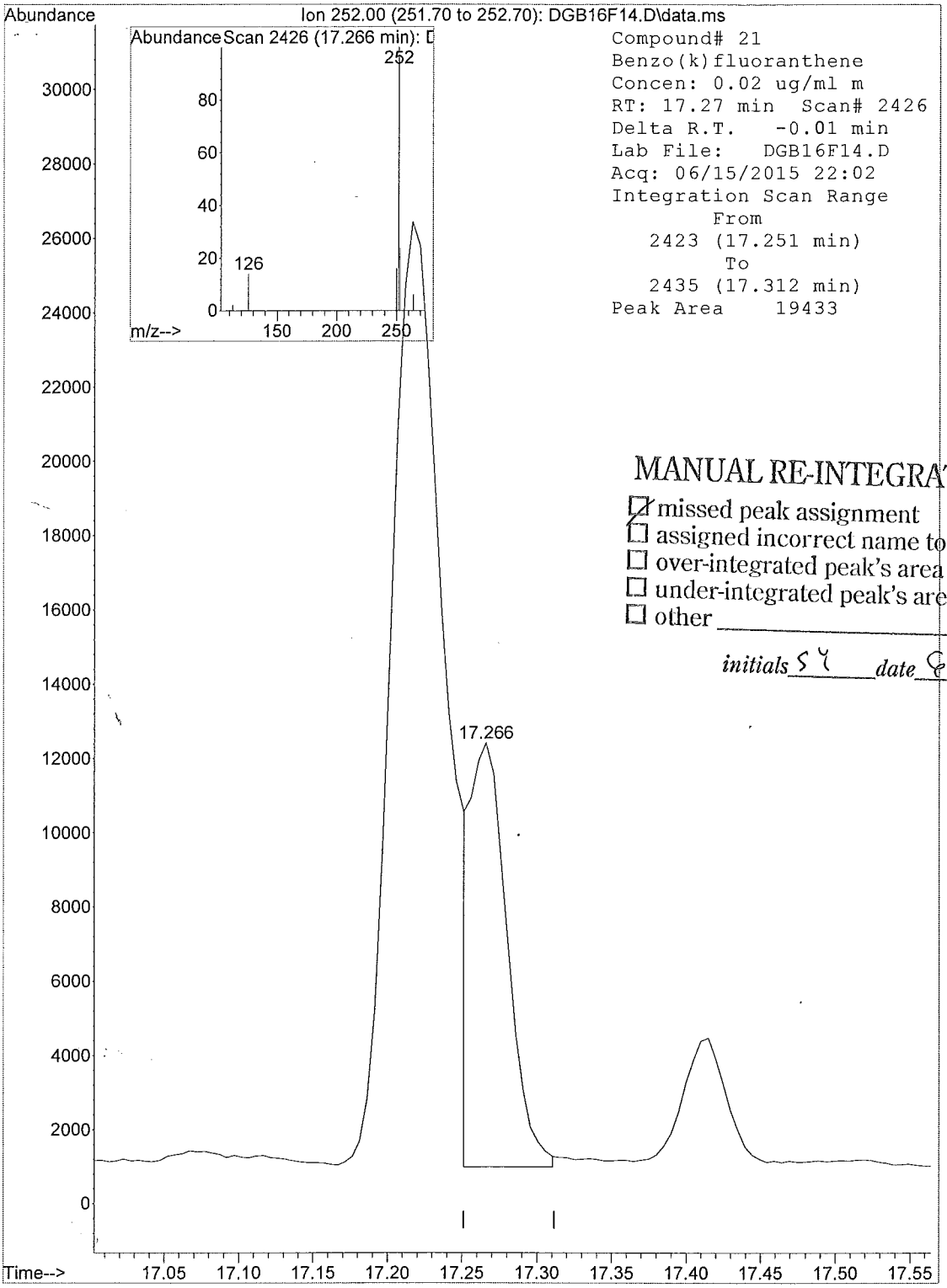


MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☑ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 6/18/15

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* 6/18/15

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M33

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542015

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DGB17F15

Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 5.0

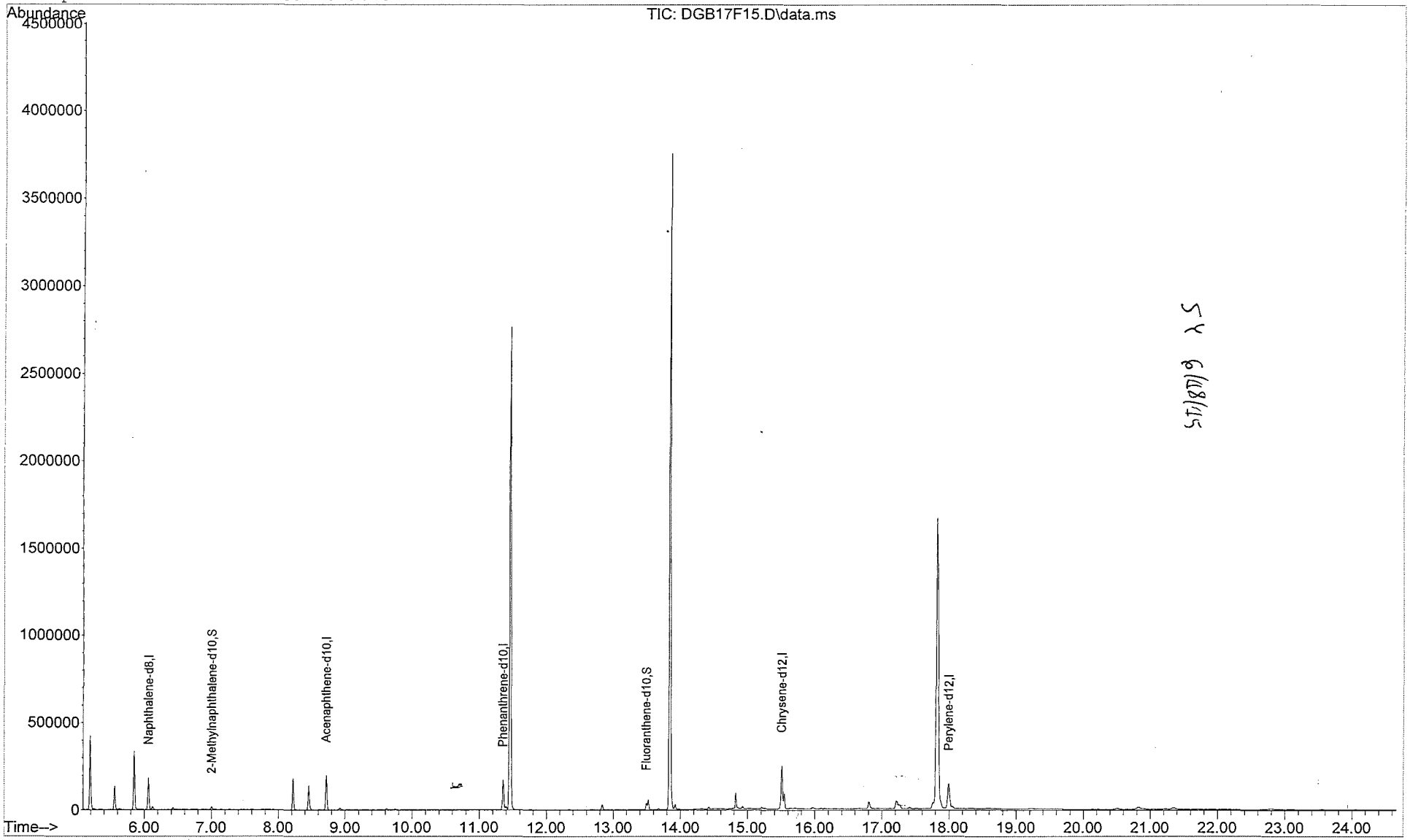
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	19.	U
91-57-6	2-Methylnaphthalene	19.	U
208-96-8	Acenaphthylene	19.	U
83-32-9	Acenaphthene	19.	U
86-73-7	Fluorene	19.	U
87-86-5	Pentachlorophenol	38.	U
85-01-8	Phenanthrene	5.2	J
120-12-7	Anthracene	19.	U
206-44-0	Fluoranthene	11.	J
129-00-0	Pyrene	13.	J
56-55-3	Benzo(a)anthracene	12.	J
218-01-9	Chrysene	18.	J
205-99-2	Benzo(b)fluoranthene	14.	J
207-08-9	Benzo(k)fluoranthene	4.7	J
50-32-8	Benzo(a)pyrene	8.4	J
193-39-5	Indeno(1,2,3-cd)pyrene	8.6	J
53-70-3	Dibenzo(a,h)anthracene	19.	U
191-24-2	Benzo(g,h,i)perylene	19.	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB17F15.D Vial: 16
Acq On : 06/15/2015 22:32 Operator: SY
Sample : 1515542015 F9M33 (5) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 17 15:04:53 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

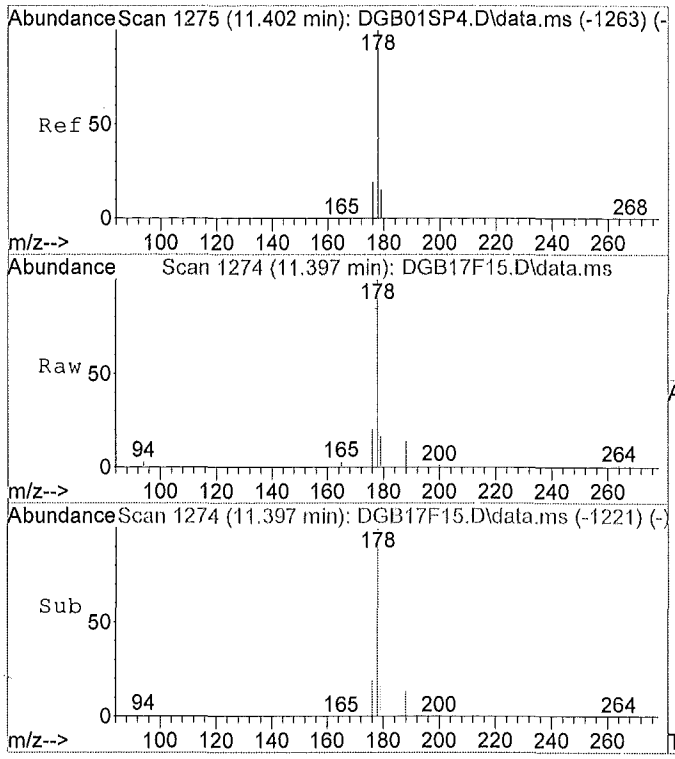
Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB17F15.D Vial: 16
Acq On : 06/15/2015 22:32 Operator: SY
Sample : 1515542015 F9M33 (5) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 17 15:04:53 2015 Results File: DSOM_SIMJ2.RES

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	6.06	136	203034	0.40 ug/ml		
5) Acenaphthene-d10	8.72	164	135069	0.40 ug/ml		
9) Phenanthrene-d10	11.35	188	236835	0.40 ug/ml		
15) Chrysene-d12	15.51	240	262064	0.40 ug/ml		
19) Perylene-d12	18.00	264	265128	0.40 ug/ml		
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.00	152	18915	0.058ug/mL		
13) Fluoranthene-d10	13.49	212	43322	0.067ug/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	11.40	178	19098	0.028ug/ml		97
12) Anthracene	0.00	178		Not Detected		
14) Fluoranthene	13.52	202	44651	0.058ug/ml		88
16) Pyrene	13.87	202	55767	0.068ug/ml	m SY 6/18/15	75
17) Benzo(a)anthracene	15.49	228	45302	0.065ug/ml		91
18) Chrysene	15.54	228	69228	0.094ug/ml		97
20) Benzo(b)fluoranthene	17.22	252	62761	0.076ug/ml	SY	99
21) Benzo(k)fluoranthene	17.27	252	21573	0.025ug/ml	m 6/18/15	98
22) Benzo(a)pyrene	17.88	252	35585	0.045ug/ml		94
23) Indeno(1,2,3-c,d)pyrene	20.82	276	31725	0.046ug/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)

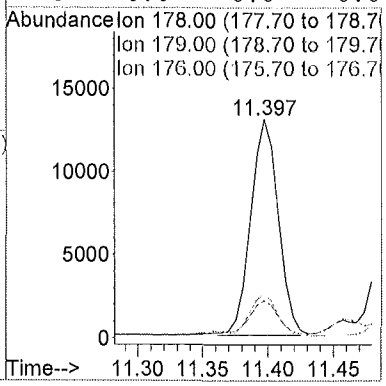
: 00728

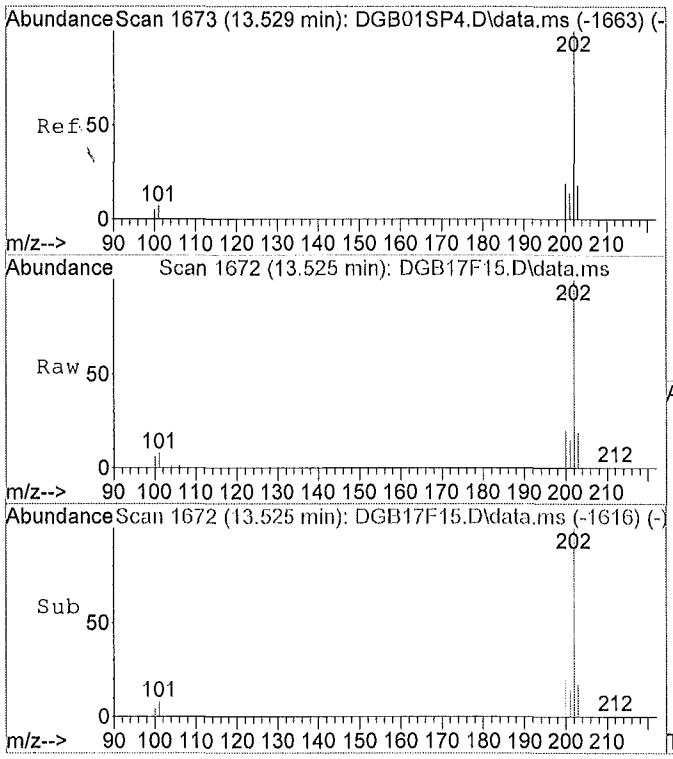


#11
Phenanthrene
Concen: 0.03 ug/ml
RT: 11.40 min Scan# 1274
Delta R.T. -0.01 min
Lab File: DGB17F15.D
Acq: 06/15/2015 22:32

Tgt Ion:178 Resp: 19098

Ion	Ratio	Lower	Upper
178	100		
179	17.7	11.1	20.5
176	19.4	14.1	26.1
0	0.0	0.0	0.0

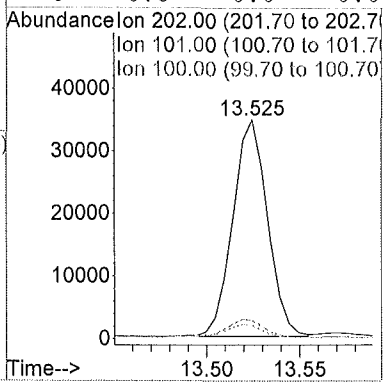




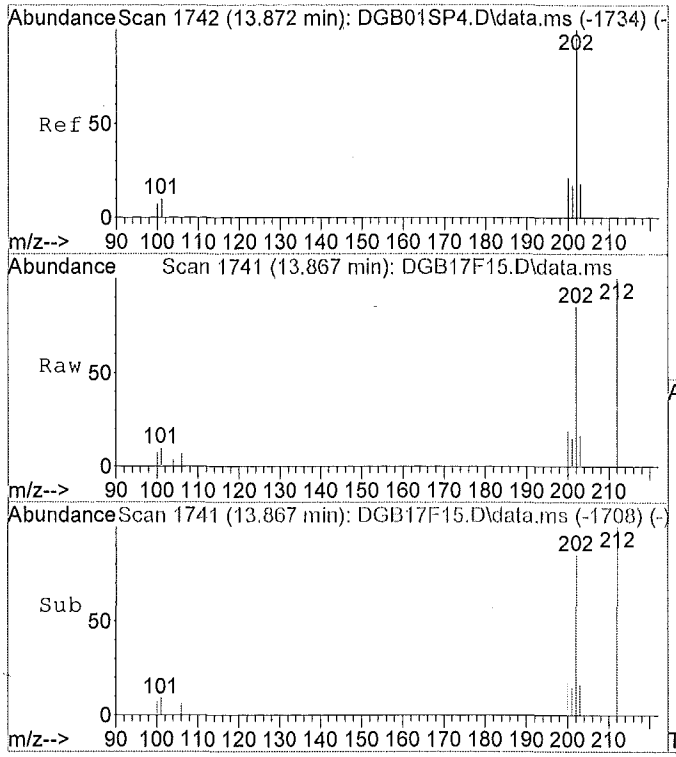
#14
Fluoranthene
Concen: 0.06 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DGB17F15.D
Acq: 06/15/2015 22:32

Tgt Ion:202 Resp: 44651

Ion	Ratio	Lower	Upper
202	100		
101	8.6	9.4	17.6#
100	7.3	0.0	0.0#
0	0.0	0.0	0.0



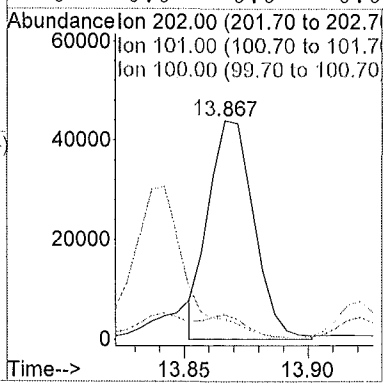
00729

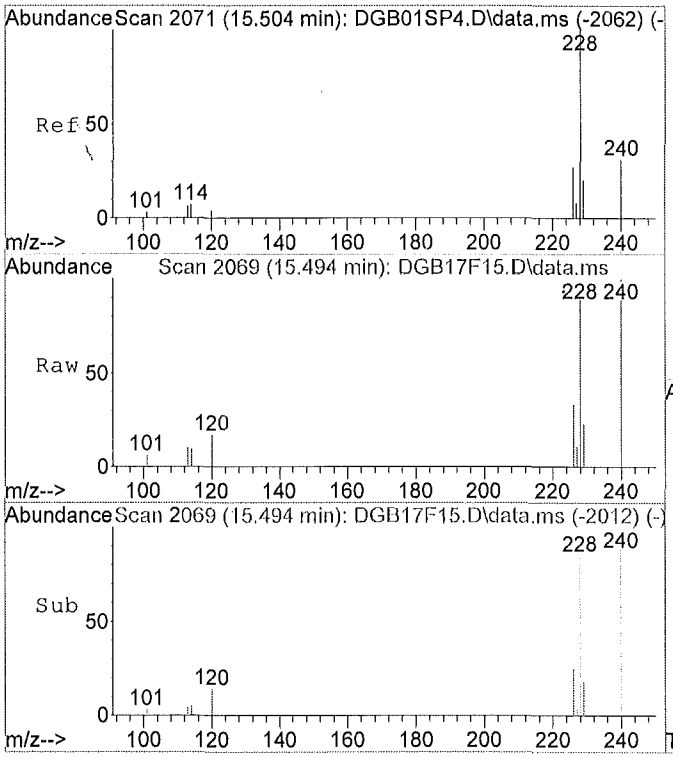


#16
Pyrene
Concen: 0.07 ug/ml m
RT: 13.87 min Scan# 1741
Delta R.T. -0.01 min
Lab File: DGB17F15.D
Acq: 06/15/2015 22:32

Tgt Ion:202 Resp: 55767

Ion	Ratio	Lower	Upper
202	100		
101	8.2	10.6	19.6#
100	0.0	9.4	17.4#
0	0.0	0.0	0.0

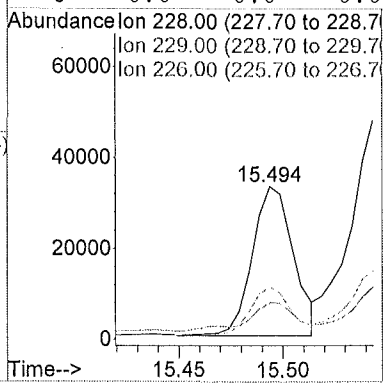




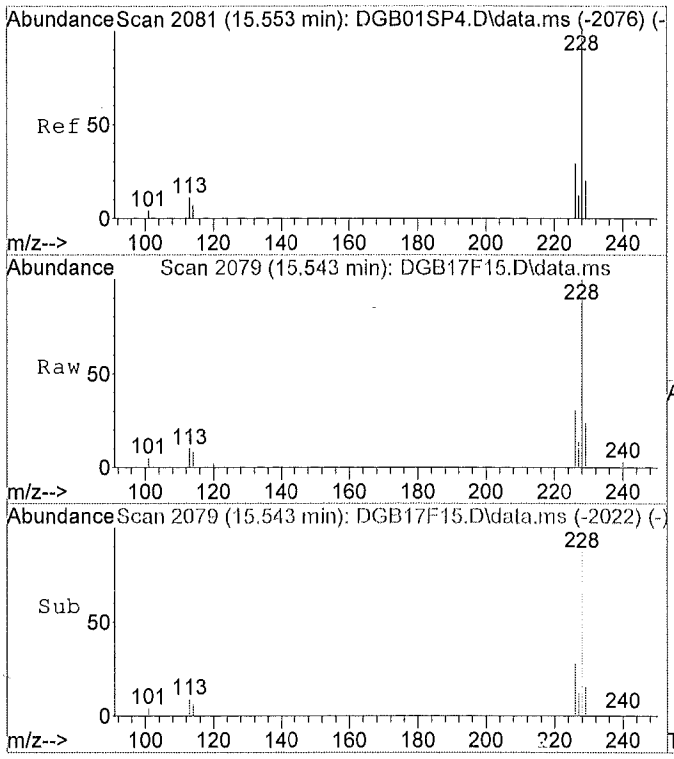
#17
Benzo(a)anthracene
Concen: 0.06 ug/ml
RT: 15.49 min Scan# 2069
Delta R.T. -0.01 min
Lab File: DGB17F15.D
Acq: 06/15/2015 22:32

Tgt Ion:228 Resp: 45302

Ion	Ratio	Lower	Upper
228	100		
229	24.1	14.5	26.9
226	31.5	18.5	34.3
0	0.0	0.0	0.0



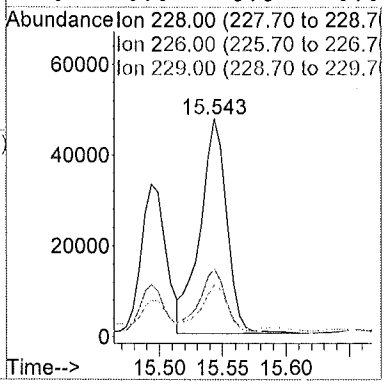
: 00730

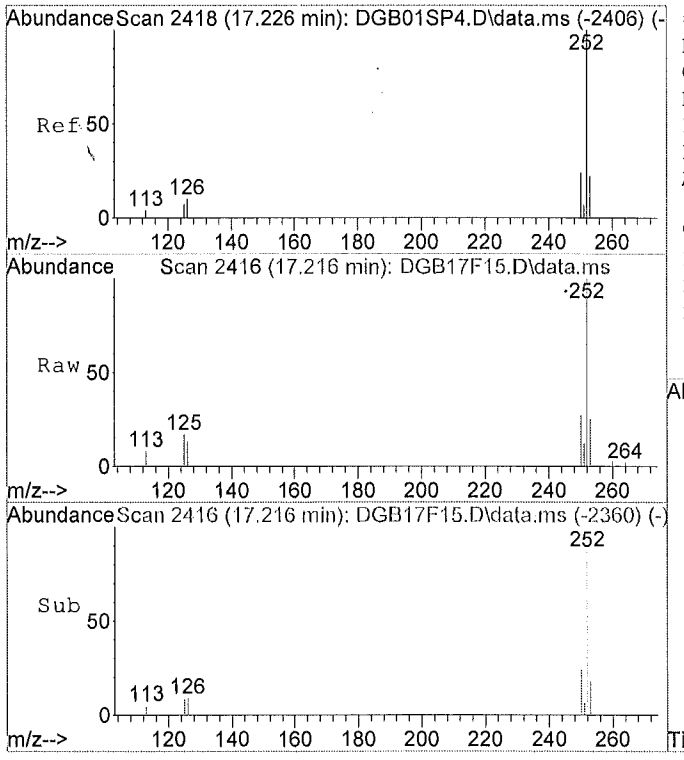


#18
Chrysene
Concen: 0.09 ug/ml
RT: 15.54 min Scan# 2079
Delta R.T. -0.01 min
Lab File: DGB17F15.D
Acq: 06/15/2015 22:32

Tgt Ion:228 Resp: 69228

Ion	Ratio	Lower	Upper
228	100		
226	30.5	19.7	36.7
229	20.1	14.5	26.9
0	0.0	0.0	0.0

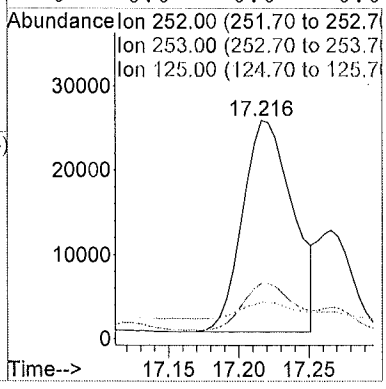




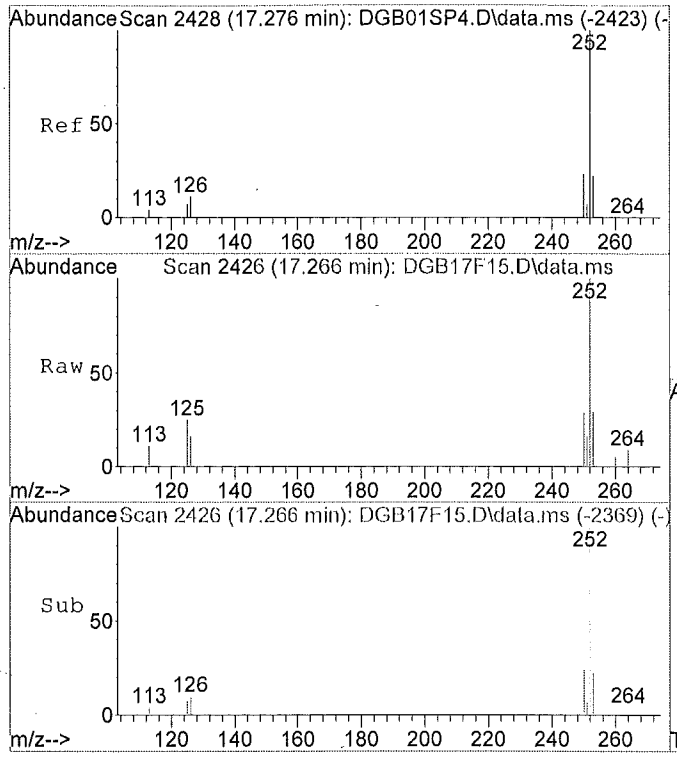
#20
Benzo(b)fluoranthene
Concen: 0.08 ug/ml
RT: 17.22 min Scan# 2416
Delta R.T. -0.01 min
Lab File: DGB17F15.D
Acq: 06/15/2015 22:32

Tgt Ion:252 Resp: 62761

Ion	Ratio	Lower	Upper
252	100		
253	22.3	15.3	28.3
125	7.9	0.0	0.0#
0	0.0	0.0	0.0



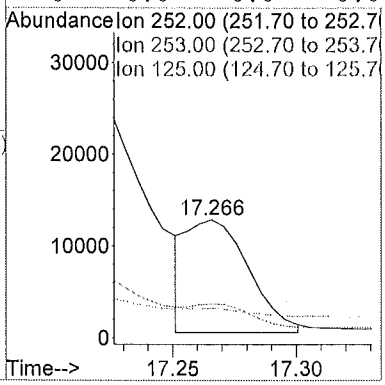
: 00734

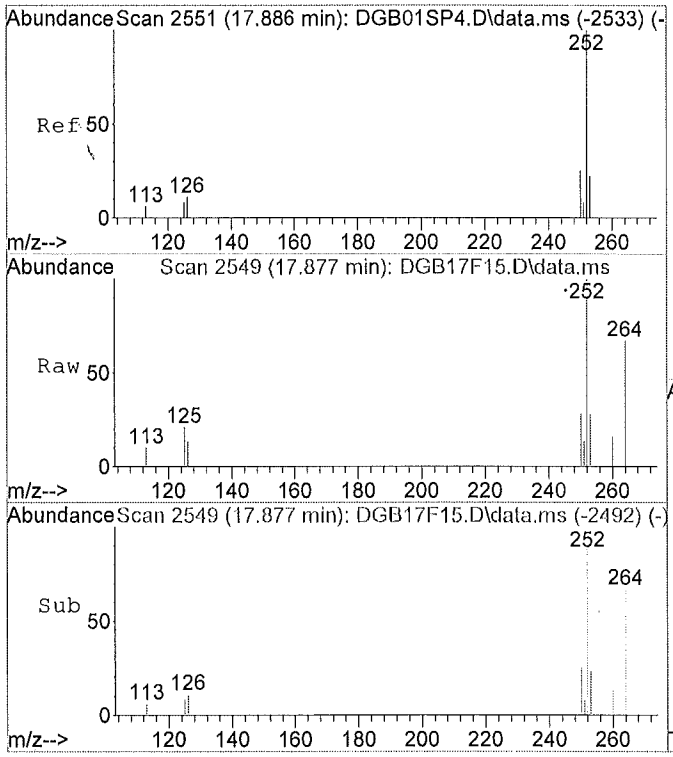


#21
Benzo(k)fluoranthene
Concen: 0.03 ug/ml m
RT: 17.27 min Scan# 2426
Delta R.T. -0.01 min
Lab File: DGB17F15.D
Acq: 06/15/2015 22:32

Tgt Ion:252 Resp: 21573

Ion	Ratio	Lower	Upper
252	100		
253	64.8	15.0	27.8#
125	22.9	0.0	0.0#
0	0.0	0.0	0.0

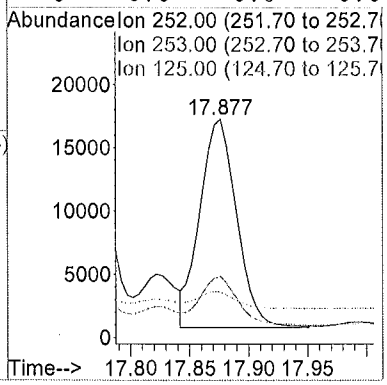




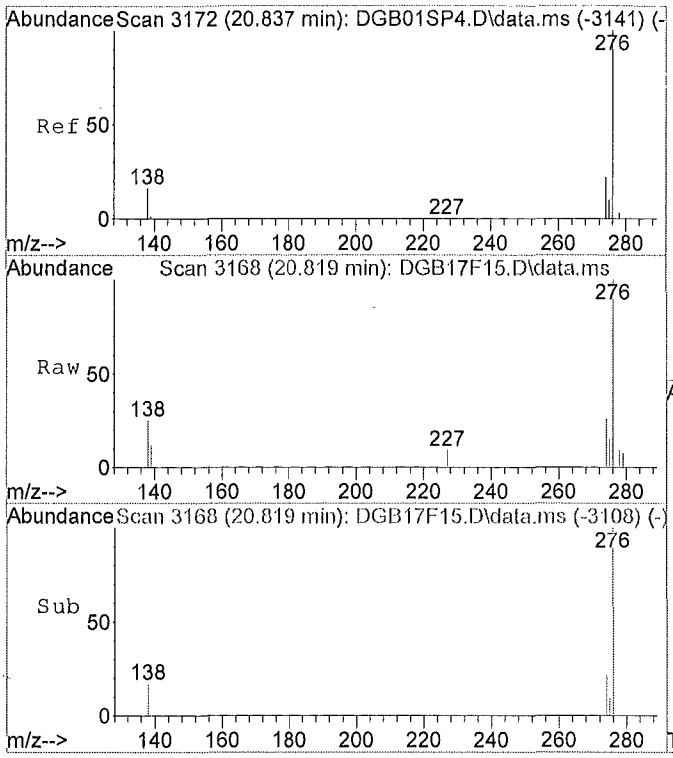
#22
Benzo(a)pyrene
Concen: 0.05 ug/ml
RT: 17.88 min Scan# 2549
Delta R.T. -0.01 min
Lab File: DGB17F15.D
Acq: 06/15/2015 22:32

Tgt Ion:252 Resp: 35585

Ion	Ratio	Lower	Upper
252	100		
253	24.3	15.0	27.8
125	8.5	0.0	0.0#
0	0.0	0.0	0.0



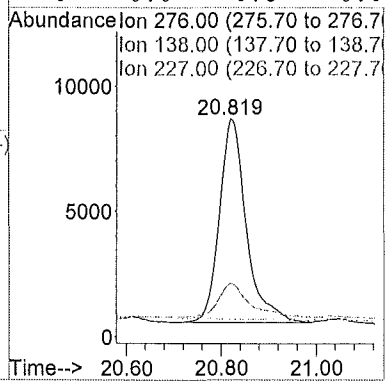
: 00732



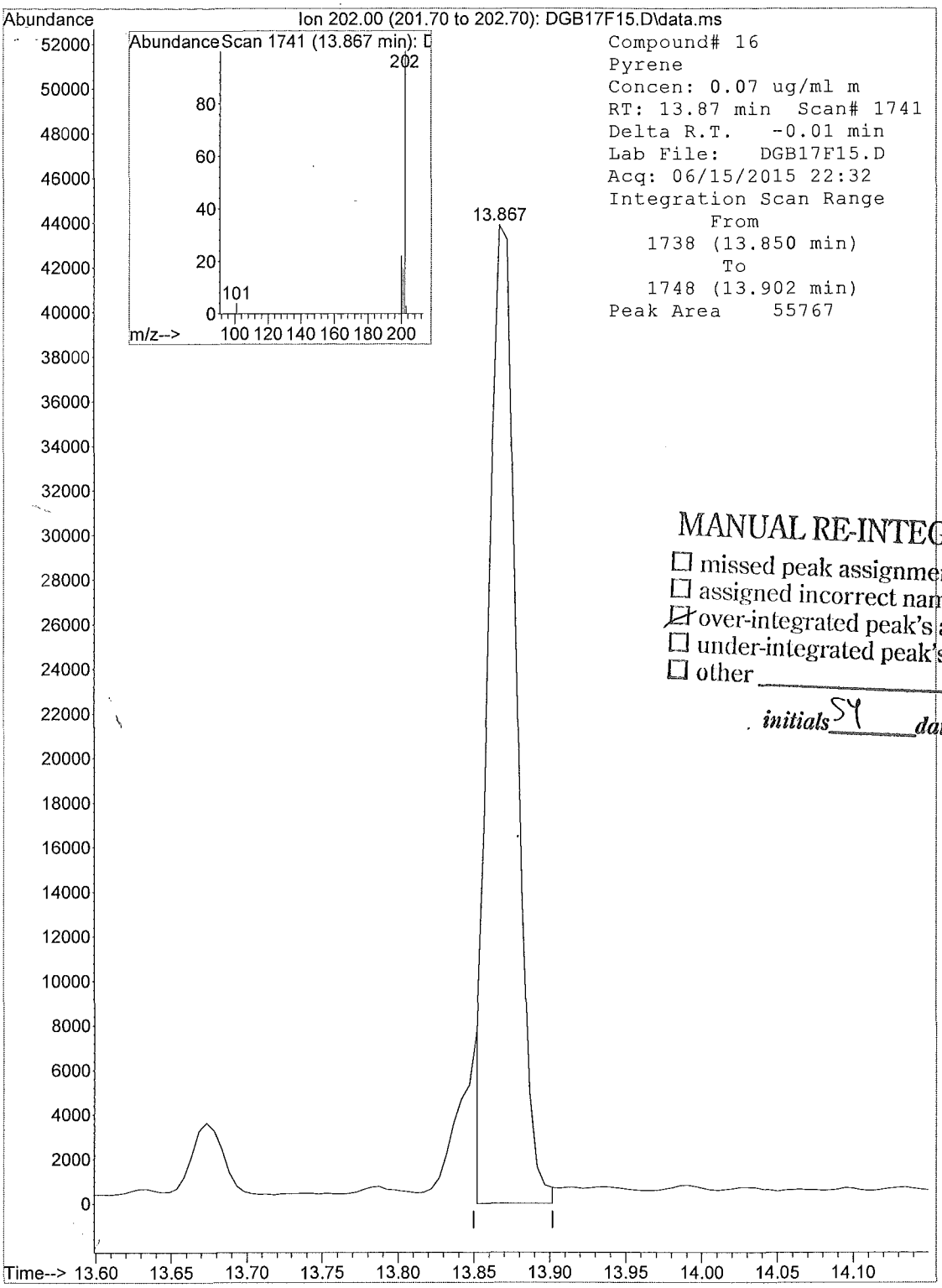
#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.05 ug/ml
RT: 20.82 min Scan# 3168
Delta R.T. -0.03 min
Lab File: DGB17F15.D
Acq: 06/15/2015 22:32

Tgt Ion:276 Resp: 31725

Ion	Ratio	Lower	Upper
276	100		
138	17.6	0.0	0.0#
227	0.2	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 Pyrene

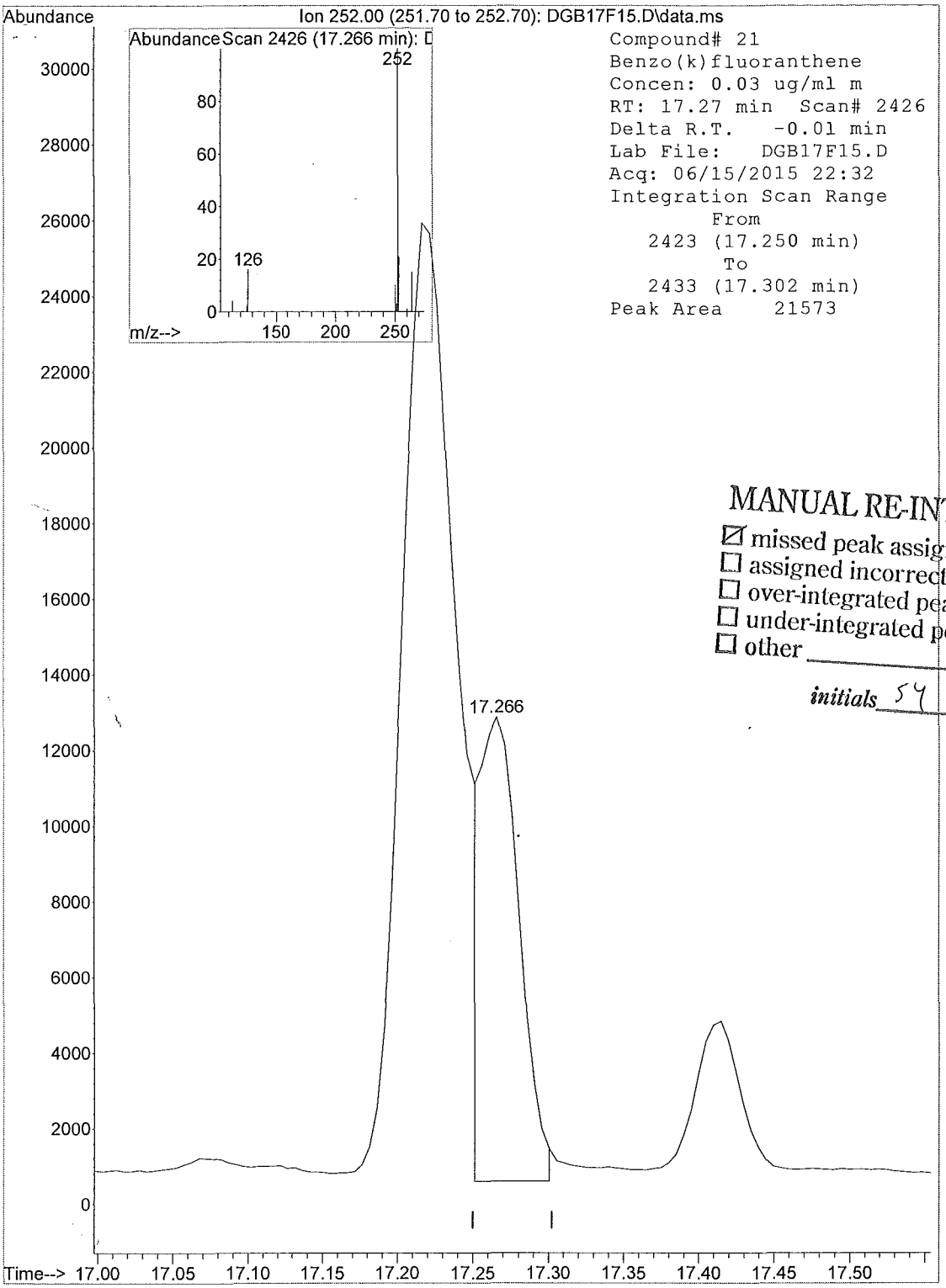


MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☑ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 6/18/15

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* 6/18/15

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M34

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542016

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DGB18F16

Extraction: (Type) SONC

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 10.0

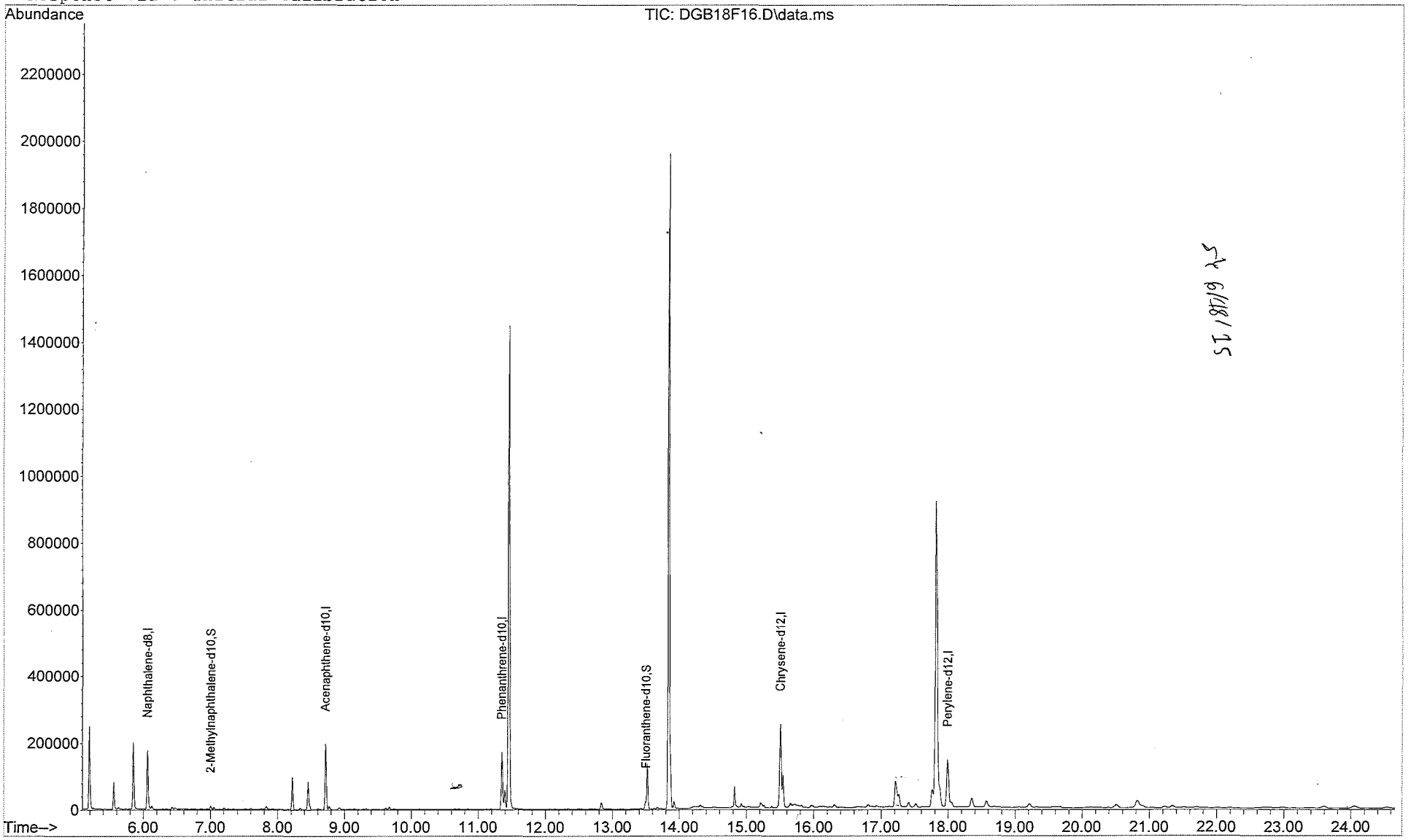
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	40.	U
91-57-6	2-Methylnaphthalene	40.	U
208-96-8	Acenaphthylene	40.	U
83-32-9	Acenaphthene	40.	U
86-73-7	Fluorene	40.	U
87-86-5	Pentachlorophenol	81.	U
85-01-8	Phenanthrene	36.	J
120-12-7	Anthracene	9.0	J
206-44-0	Fluoranthene	56.	
129-00-0	Pyrene	56.	
56-55-3	Benzo(a)anthracene	39.	J
218-01-9	Chrysene	44.	
205-99-2	Benzo(b)fluoranthene	56.	
207-08-9	Benzo(k)fluoranthene	17.	J
50-32-8	Benzo(a)pyrene	34.	J
193-39-5	Indeno(1,2,3-cd)pyrene	36.	J
53-70-3	Dibenzo(a,h)anthracene	40.	U
191-24-2	Benzo(g,h,i)perylene	40.	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB18F16.D Vial: 17
Acq On : 06/15/2015 23:01 Operator: SY
Sample : 1515542016 F9M34 (10 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 17 15:05:28 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

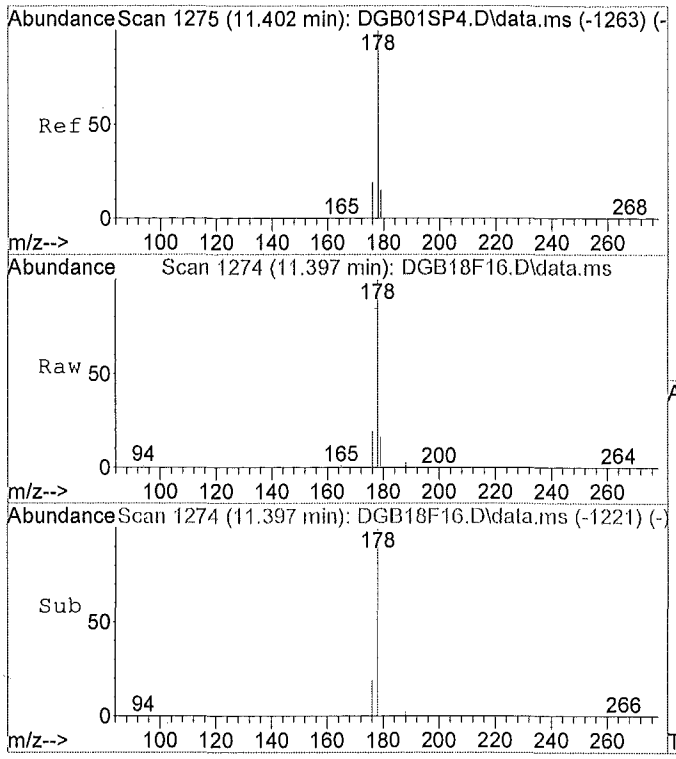
Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB18F16.D Vial: 17
Acq On : 06/15/2015 23:01 Operator: SY
Sample : 1515542016 F9M34 (10 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 17 15:05:28 2015 Results File: DSOM_SIMJ2.RES

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	6.06	136	201996	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	132009	0.40 ug/ml	
9) Phenanthrene-d10	11.35	188	235013	0.40 ug/ml	
15) Chrysene-d12	15.51	240	258113	0.40 ug/ml	
19) Perylene-d12	18.00	264	256622	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	11640	0.036ug/mL	
13) Fluoranthene-d10	13.49	212	23405	0.036ug/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	11.40	178	59695	0.088ug/ml	99
12) Anthracene	11.49	178	14690	0.022ug/ml	96
14) Fluoranthene	13.52	202	106686	0.139ug/ml	89
16) Pyrene	13.87	202	111329	0.137ug/ml	88
17) Benzo(a)anthracene	15.49	228	65969	0.096ug/ml	92
18) Chrysene	15.54	228	79118	0.109ug/ml	96
20) Benzo(b)fluoranthene	17.22	252	110930	0.139ug/ml	99
21) Benzo(k)fluoranthene	17.26	252	34801	0.042ug/ml	98
22) Benzo(a)pyrene	17.87.	252	64912	0.085ug/ml	96
23) Indeno(1,2,3-c,d)pyrene	20.82	276	58937	0.088ug/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)

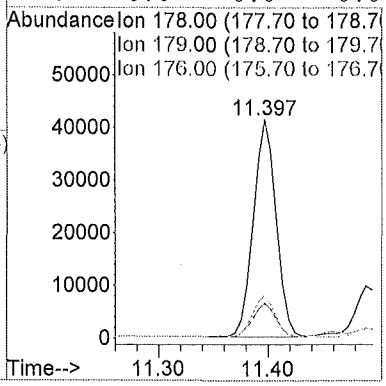
: 90739

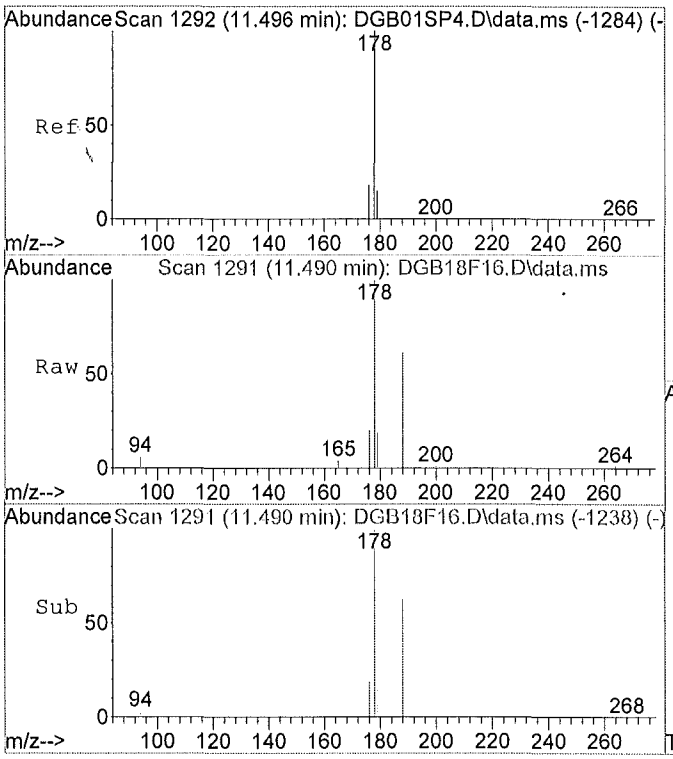


#11
Phenanthrene
Concen: 0.09 ug/ml
RT: 11.40 min Scan# 1274
Delta R.T. -0.01 min
Lab File: DGB18F16.D
Acq: 06/15/2015 23:01

Tgt Ion:178 Resp: 59695

Ion	Ratio	Lower	Upper
178	100		
179	15.9	11.1	20.5
176	19.2	14.1	26.1
0	0.0	0.0	0.0

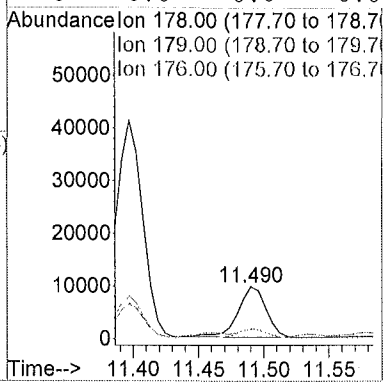




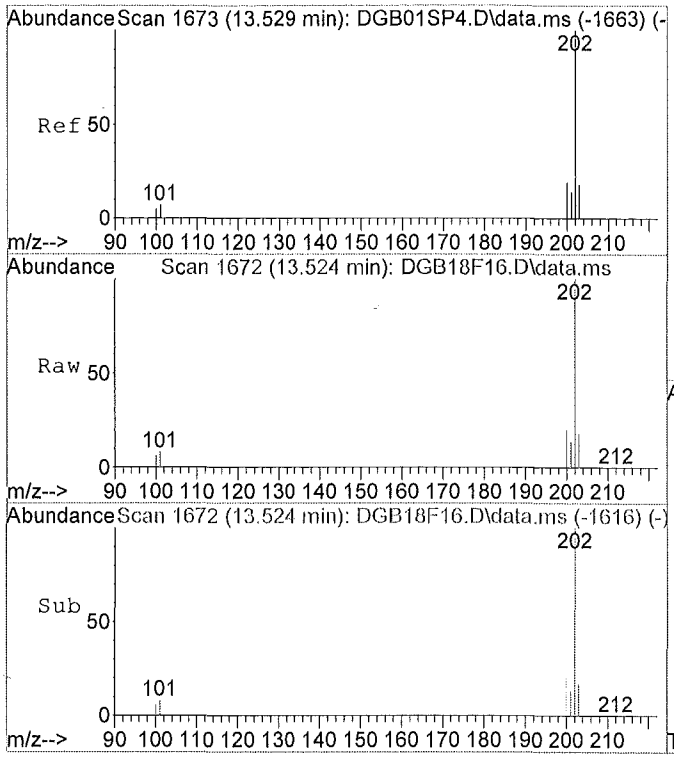
#12
Anthracene
Concen: 0.02 ug/ml
RT: 11.49 min Scan# 1291
Delta R.T. -0.01 min
Lab File: DGB18F16.D
Acq: 06/15/2015 23:01

Tgt Ion:178 Resp: 14690

Ion	Ratio	Lower	Upper
178	100		
179	14.6	11.6	21.6
176	18.0	13.9	25.7
0	0.0	0.0	0.0



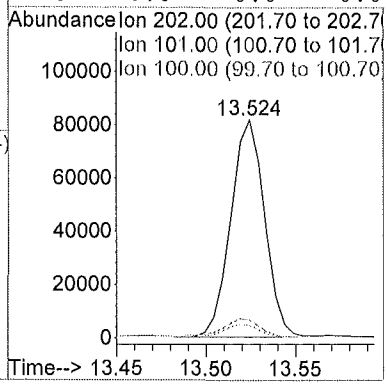
: 00739

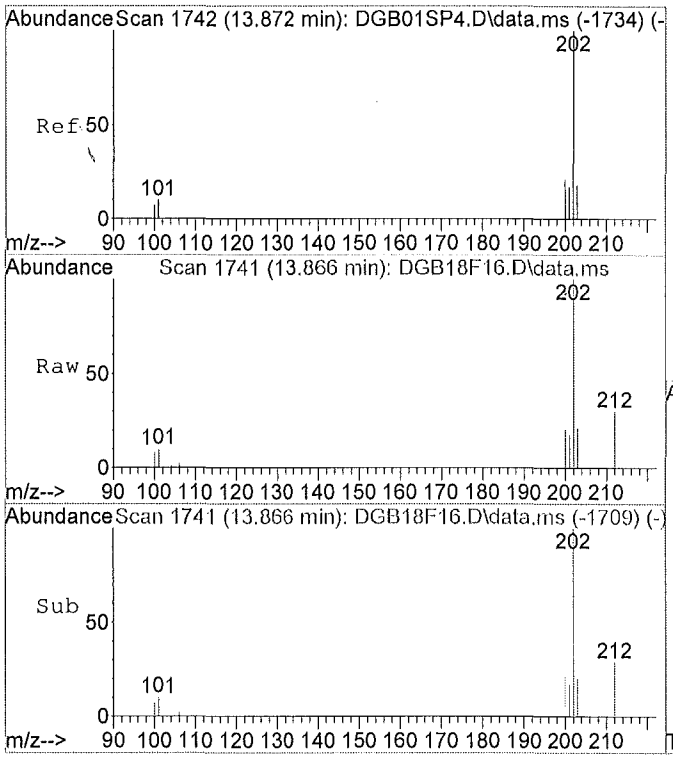


#14
Fluoranthene
Concen: 0.14 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DGB18F16.D
Acq: 06/15/2015 23:01

Tgt Ion:202 Resp: 106686

Ion	Ratio	Lower	Upper
202	100		
101	9.2	9.4	17.6#
100	6.7	0.0	0.0#
0	0.0	0.0	0.0

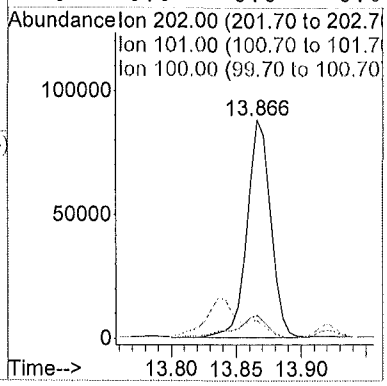


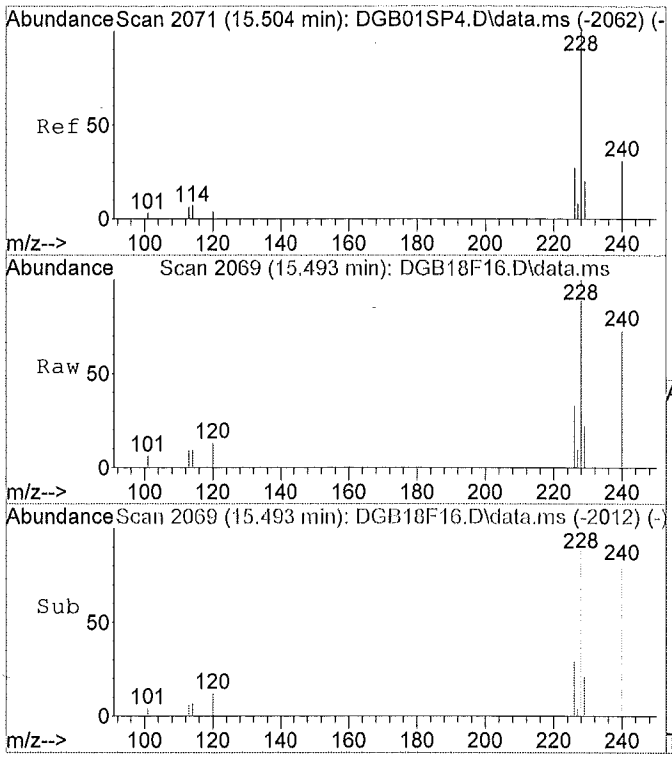


#16
Pyrene
Concen: 0.14 ug/ml
RT: 13.87 min Scan# 1741
Delta R.T. -0.01 min
Lab File: DGB18F16.D
Acq: 06/15/2015 23:01

Tgt Ion:202 Resp: 111329

Ion	Ratio	Lower	Upper
202	100		
101	14.0	10.6	19.6
100	22.8	9.4	17.4#
0	0.0	0.0	0.0

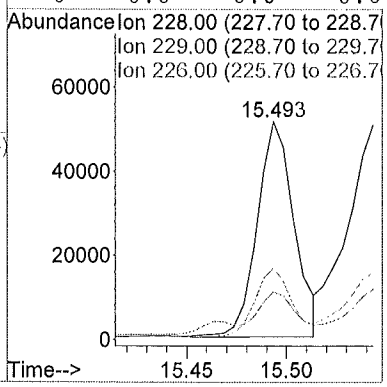


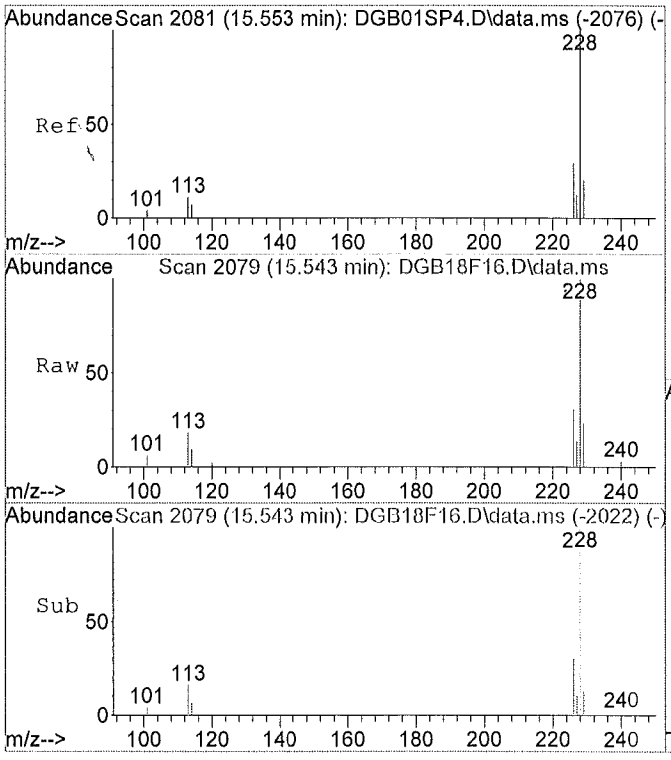


#17
Benzo(a)anthracene
Concen: 0.10 ug/ml
RT: 15.49 min Scan# 2069
Delta R.T. -0.02 min
Lab File: DGB18F16.D
Acq: 06/15/2015 23:01

Tgt Ion:228 Resp: 65969

Ion	Ratio	Lower	Upper
228	100		
229	19.4	14.5	26.9
226	32.2	18.5	34.3
0	0.0	0.0	0.0

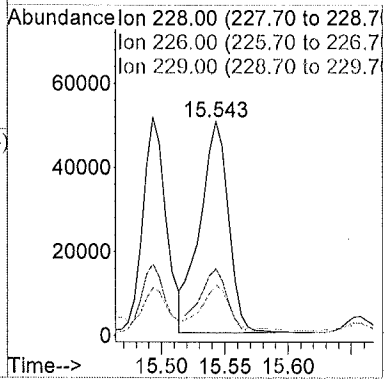


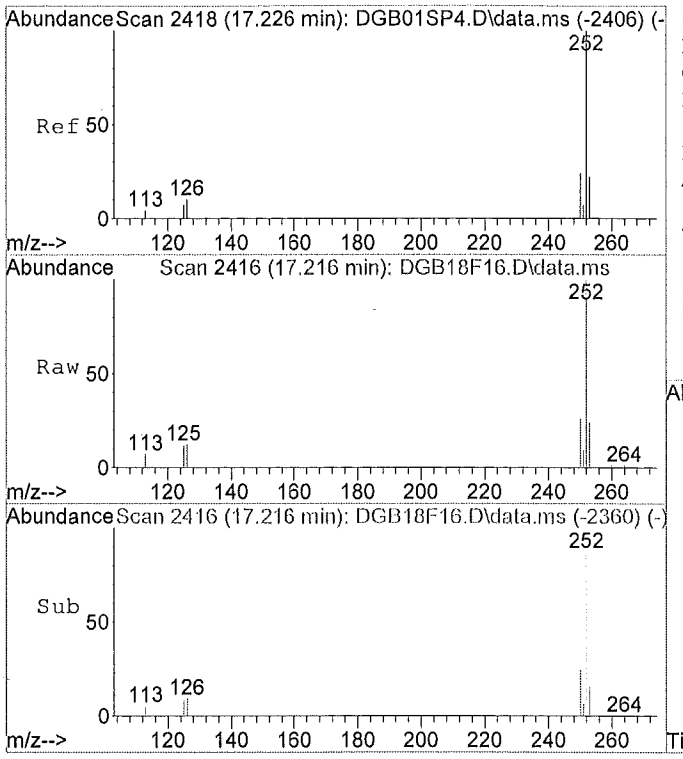


#18
Chrysene
Concen: 0.11 ug/ml
RT: 15.54 min Scan# 2079
Delta R.T. -0.02 min
Lab File: DGB18F16.D
Acq: 06/15/2015 23:01

Tgt Ion:228 Resp: 79118

Ion	Ratio	Lower	Upper
228	100		
226	30.9	19.7	36.7
229	19.4	14.5	26.9
0	0.0	0.0	0.0

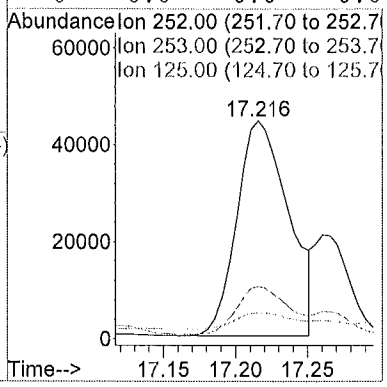


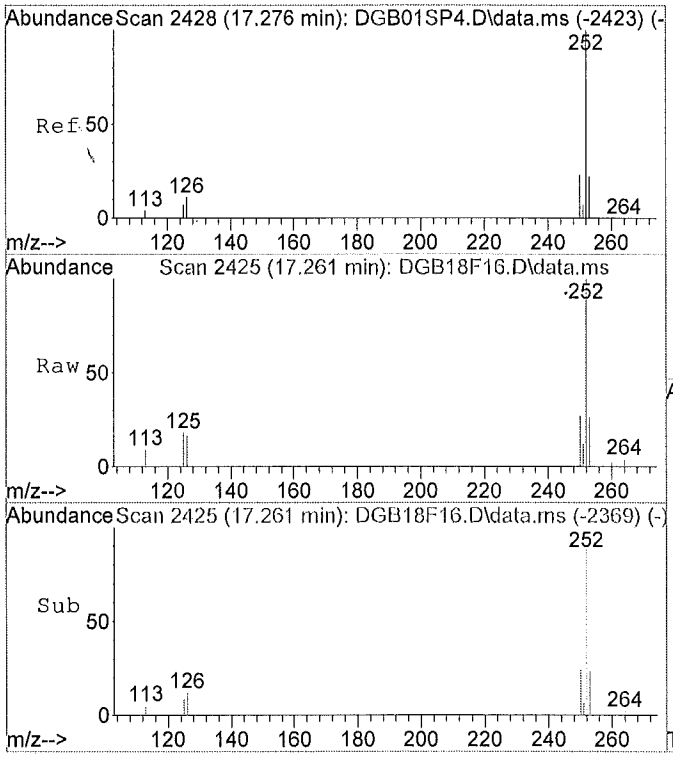


#20
Benzo(b)fluoranthene
Concen: 0.14 ug/ml
RT: 17.22 min Scan# 2416
Delta R.T. -0.02 min
Lab File: DGB18F16.D
Acq: 06/15/2015 23:01

Tgt Ion:252 Resp: 110930

Ion	Ratio	Lower	Upper
252	100		
253	22.3	15.3	28.3
125	8.5	0.0	0.0#
0	0.0	0.0	0.0

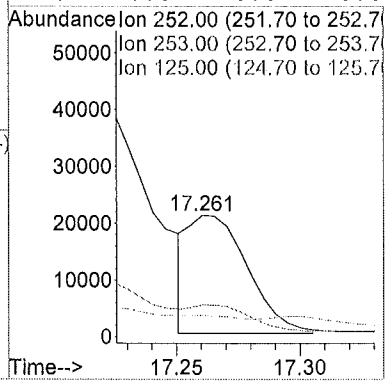


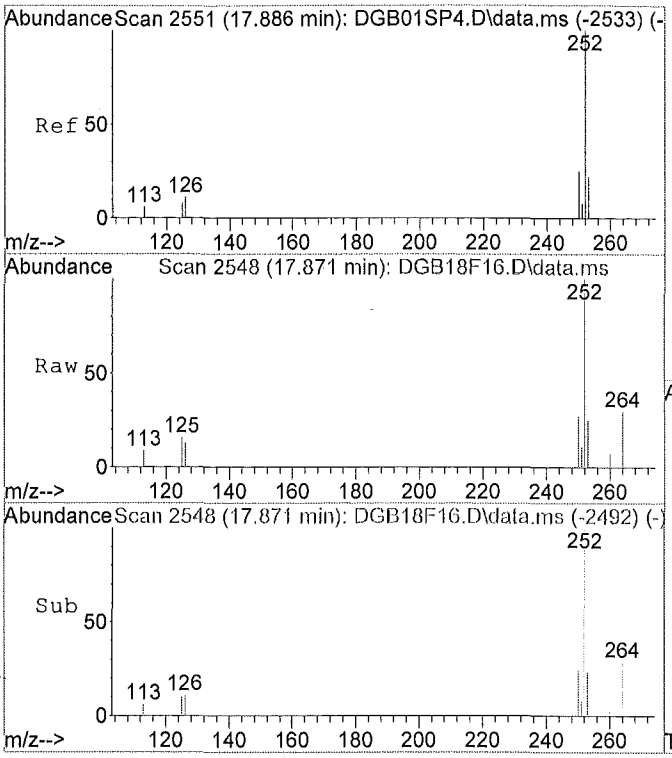


#21
Benzo(k)fluoranthene
Concen: 0.04 ug/ml m
RT: 17.26 min Scan# 2425
Delta R.T. -0.02 min
Lab File: DGB18F16.D
Acq: 06/15/2015 23:01

Tgt Ion:252 Resp: 34801

Ion	Ratio	Lower	Upper
252	100		
253	70.9	15.0	27.8#
125	27.0	0.0	0.0#
0	0.0	0.0	0.0

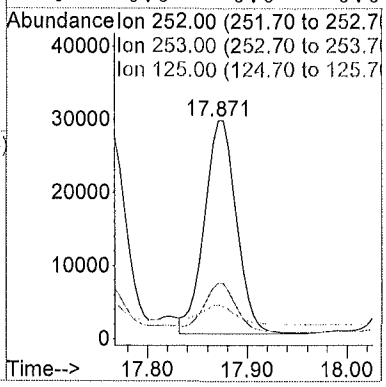


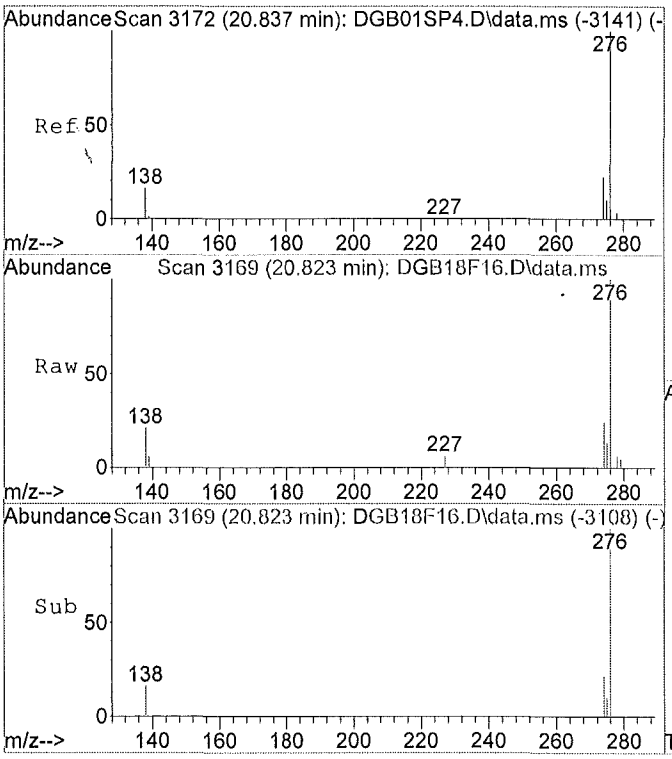


#22
Benzo(a)pyrene
Concen: 0.08 ug/ml
RT: 17.87 min Scan# 2548
Delta R.T. -0.02 min
Lab File: DGB18F16.D
Acq: 06/15/2015 23:01

Tgt Ion:252 Resp: 64912

Ion	Ratio	Lower	Upper
252	100		
253	23.3	15.0	27.8
125	10.5	0.0	0.0#
0	0.0	0.0	0.0

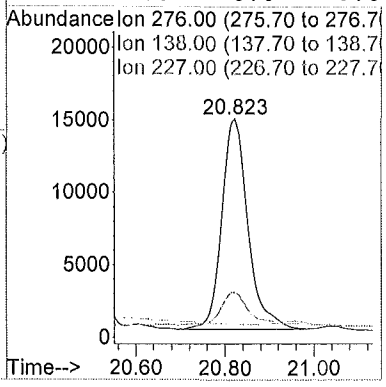




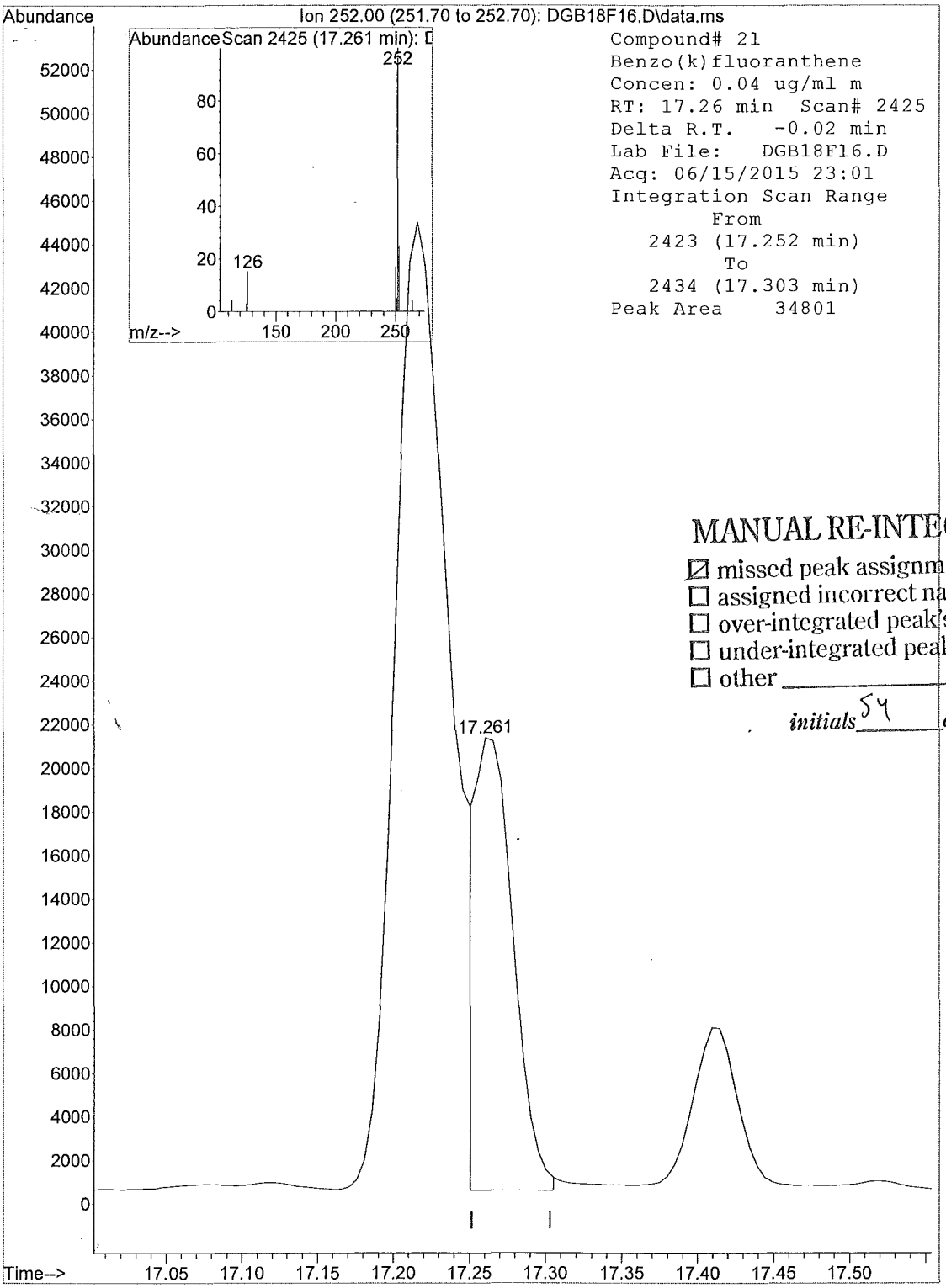
#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.09 ug/ml
RT: 20.82 min Scan# 3169
Delta R.T. -0.03 min
Lab File: DGB18F16.D
Acq: 06/15/2015 23:01

Tgt Ion:276 Resp: 58937

Ion	Ratio	Lower	Upper
276	100		
138	17.4	0.0	0.0#
227	0.0	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* 6/18/15

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M35

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542017

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DGB19F17

Extraction: (Type) SONC

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 10.0

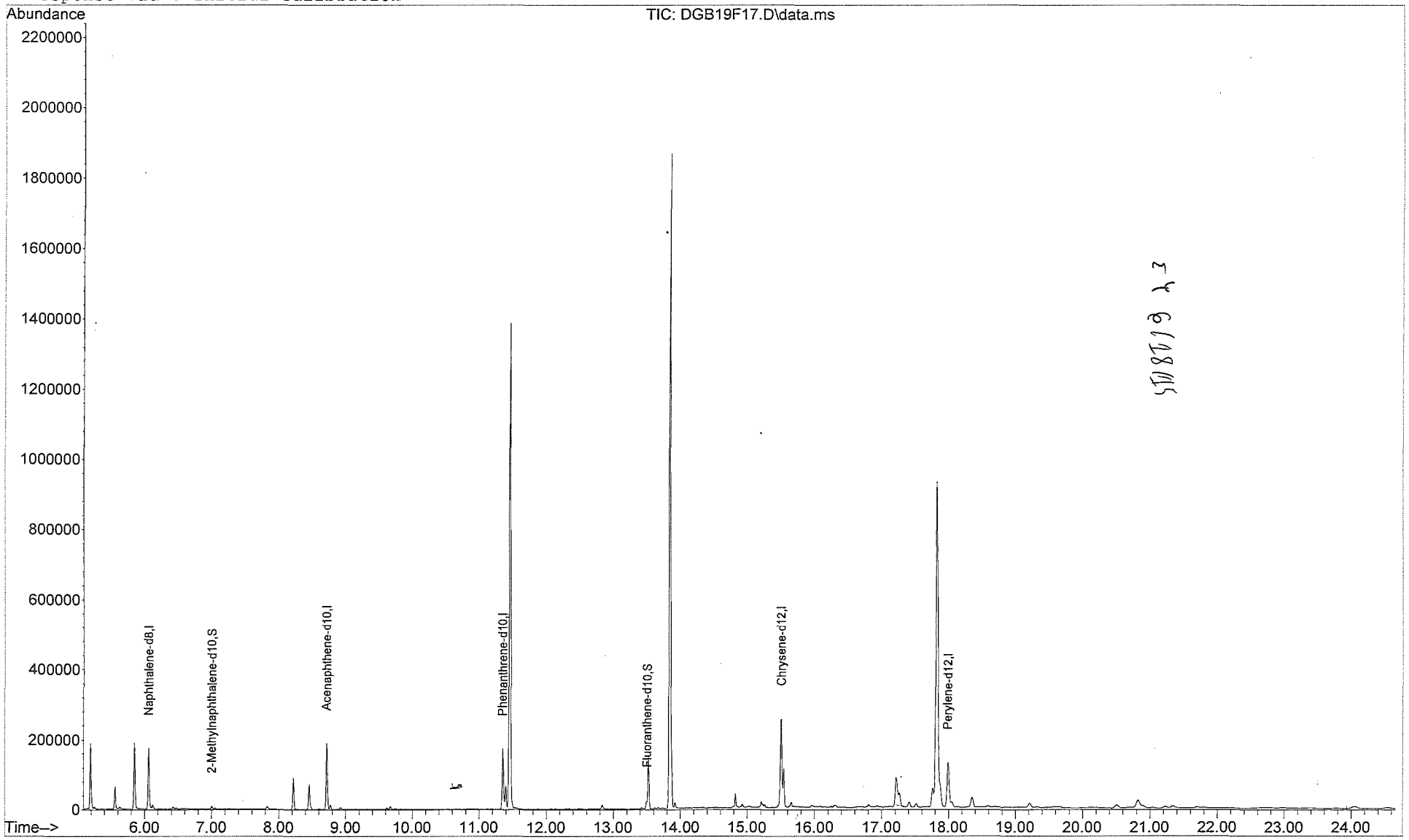
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	40.	U
91-57-6	2-Methylnaphthalene	40.	U
208-96-8	Acenaphthylene	40.	U
83-32-9	Acenaphthene	40.	U
86-73-7	Fluorene	40.	U
87-86-5	Pentachlorophenol	81.	U
85-01-8	Phenanthrene	41.	
120-12-7	Anthracene	10.	J
206-44-0	Fluoranthene	64.	
129-00-0	Pyrene	61.	
56-55-3	Benzo(a)anthracene	44.	
218-01-9	Chrysene	49.	
205-99-2	Benzo(b)fluoranthene	65.	
207-08-9	Benzo(k)fluoranthene	20.	J
50-32-8	Benzo(a)pyrene	41.	
193-39-5	Indeno(1,2,3-cd)pyrene	37.	J
53-70-3	Dibenzo(a,h)anthracene	8.5	J
191-24-2	Benzo(g,h,i)perylene	40.	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB19F17.D Vial: 18
Acq On : 06/15/2015 23:31 Operator: SY
Sample : 1515542017 F9M35 (10) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 17 15:06:02 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\15JUN15\DGB19F17.D Vial: 18
Acq On : 06/15/2015 23:31 Operator: SY
Sample : 1515542017 F9M35 (10) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 17 15:06:02 2015 Results File: DSOM_SIMJ2.RES

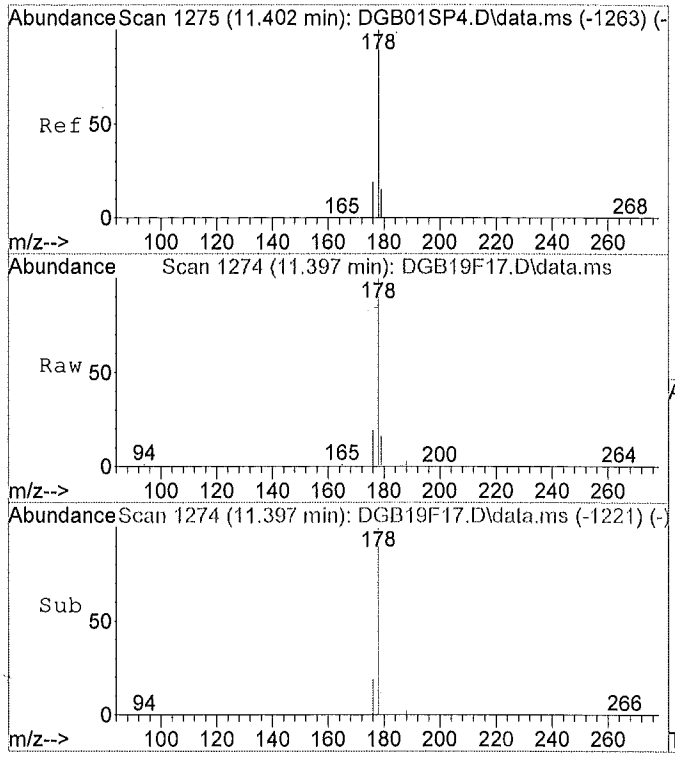
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.06	136	196312	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	130341	0.40 ug/ml	
9) Phenanthrene-d10	11.35	188	234294	0.40 ug/ml	
15) Chrysene-d12	15.51	240	258898	0.40 ug/ml	
19) Perylene-d12	17.99	264	239106	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	9638	0.030ug/mL	
13) Fluoranthene-d10	13.49	212	22236	0.035ug/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	11.40	178	69434	0.103ug/ml	99
12) Anthracene	11.49	178	16428	0.025ug/ml	95
14) Fluoranthene	13.52	202	121425	0.158ug/ml	89
16) Pyrene	13.87	202	122338	0.151ug/ml	91
17) Benzo(a)anthracene	15.49	228	75802	0.110ug/ml	94
18) Chrysene	15.54	228	88938	0.122ug/ml	96
20) Benzo(b)fluoranthene	17.22	252	119472	0.160ug/ml	99
21) Benzo(k)fluoranthene	17.27	252	38984	0.050ug/ml	98
22) Benzo(a)pyrene	17.87.	252	72341	0.102ug/ml	96
23) Indeno(1,2,3-c,d)pyrene	20.82	276	57773	0.093ug/ml	100
24) Dibenzo(a,h)anthracene	20.90	278	14610	0.021ug/ml	89
25) Benzo(g,h,i)perylene	0.00	276		Not Detected	

54 mG/18/15

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

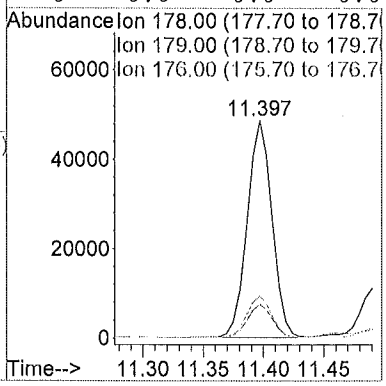
08717

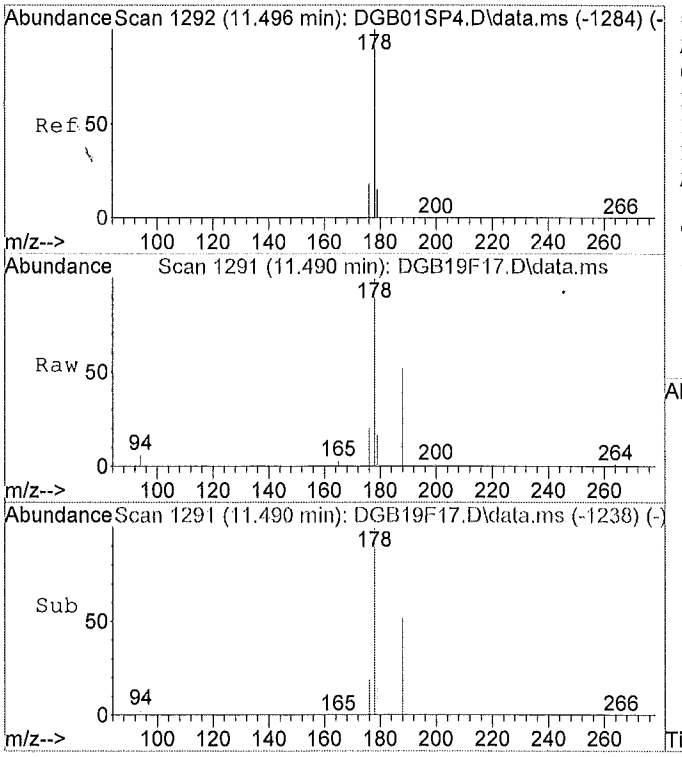


#11
Phenanthrene
Concen: 0.10 ug/ml
RT: 11.40 min Scan# 1274
Delta R.T. -0.01 min
Lab File: DGB19F17.D
Acq: 06/15/2015 23:31

Tgt Ion:178 Resp: 69434

Ion	Ratio	Lower	Upper
178	100		
179	15.6	11.1	20.5
176	19.2	14.1	26.1
0	0.0	0.0	0.0

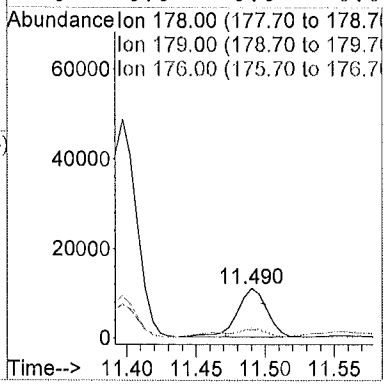


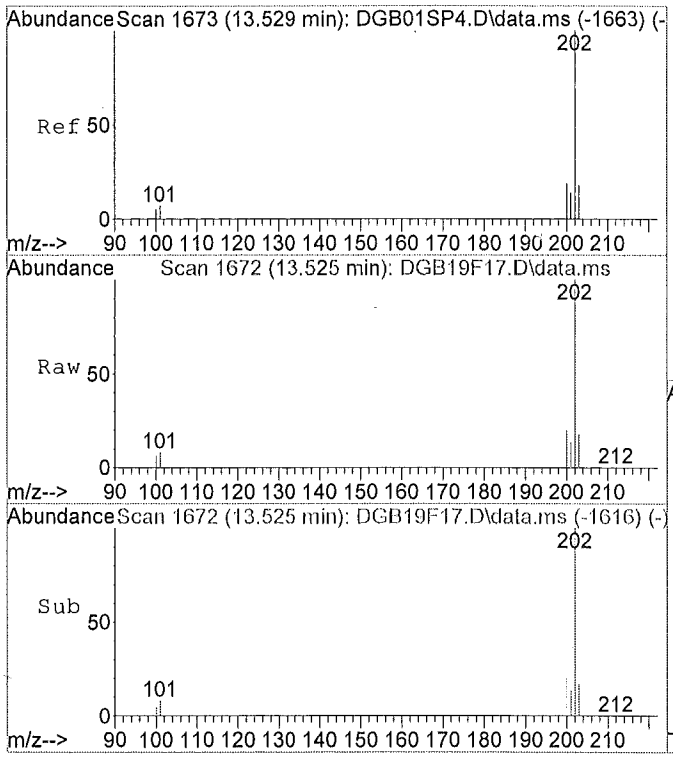


#12
Anthracene
Concen: 0.03 ug/ml
RT: 11.49 min Scan# 1291
Delta R.T. -0.01 min
Lab File: DGB19F17.D
Acq: 06/15/2015 23:31

Tgt Ion:178 Resp: 16428

Ion	Ratio	Lower	Upper
178	100		
179	14.2	11.6	21.6
176	18.1	13.9	25.7
0	0.0	0.0	0.0

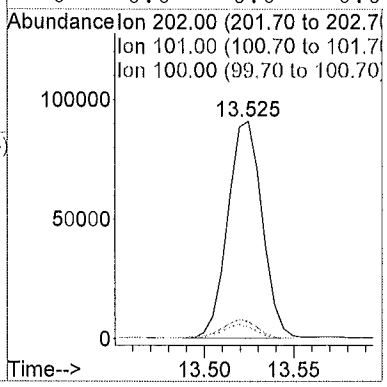


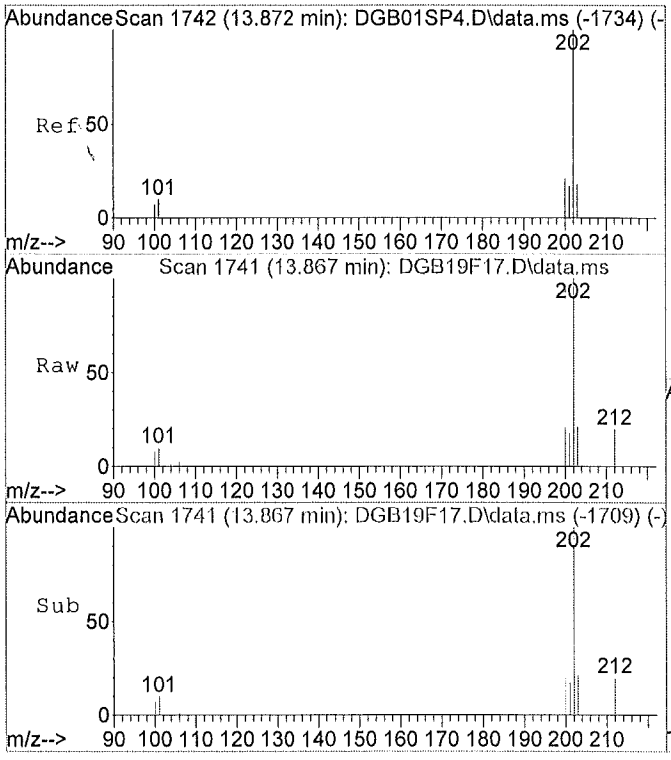


#14
Fluoranthene
Concen: 0.16 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DGB19F17.D
Acq: 06/15/2015 23:31

Tgt Ion:202 Resp: 121425

Ion	Ratio	Lower	Upper
202	100		
101	9.0	9.4	17.6#
100	6.6	0.0	0.0#
0	0.0	0.0	0.0

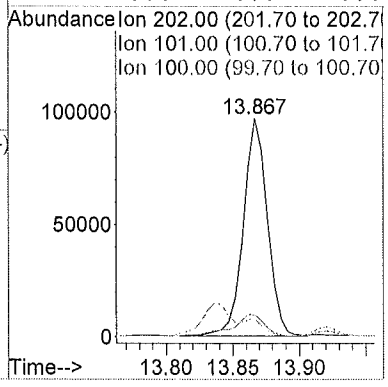


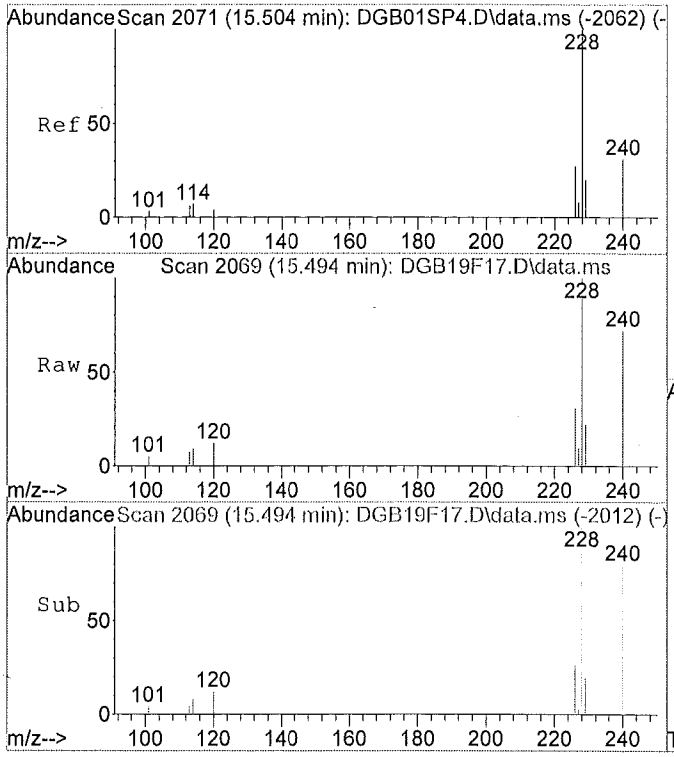


#16
Pyrene
Concen: 0.15 ug/ml
RT: 13.87 min Scan# 1741
Delta R.T. -0.01 min
Lab File: DGB19F17.D
Acq: 06/15/2015 23:31

Tgt Ion:202 Resp: 122338

Ion	Ratio	Lower	Upper
202	100		
101	13.6	10.6	19.6
100	19.7	9.4	17.4#
0	0.0	0.0	0.0

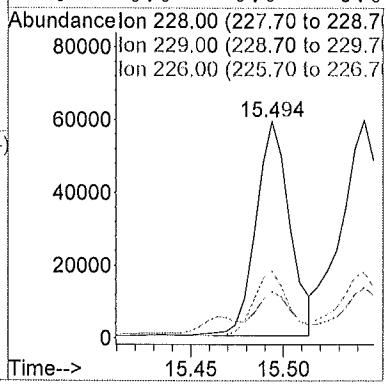


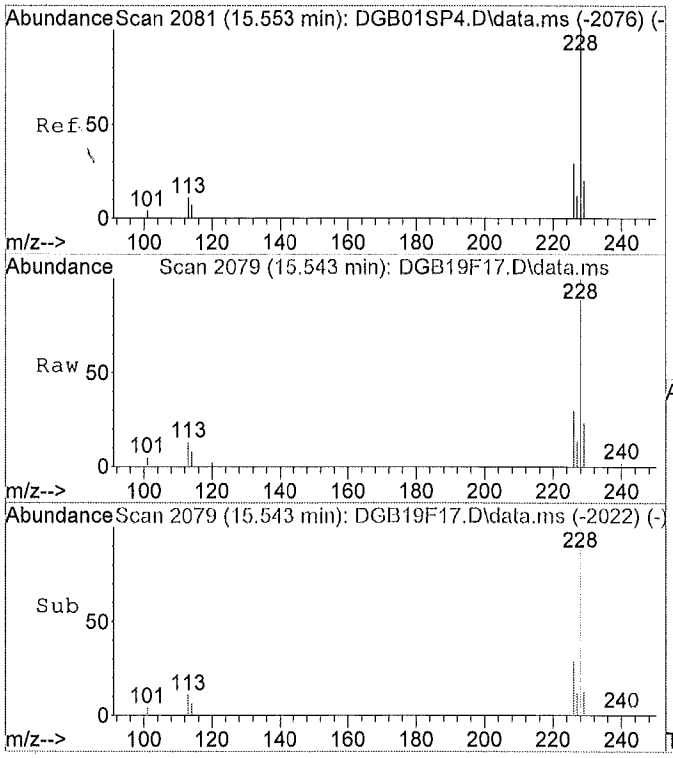


#17
Benzo(a)anthracene
Concen: 0.11 ug/ml
RT: 15.49 min Scan# 2069
Delta R.T. -0.01 min
Lab File: DGB19F17.D
Acq: 06/15/2015 23:31

Tgt Ion:228 Resp: 75802

Ion	Ratio	Lower	Upper
228	100		
229	19.3	14.5	26.9
226	30.9	18.5	34.3
0	0.0	0.0	0.0

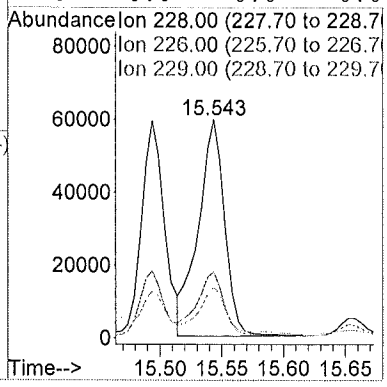


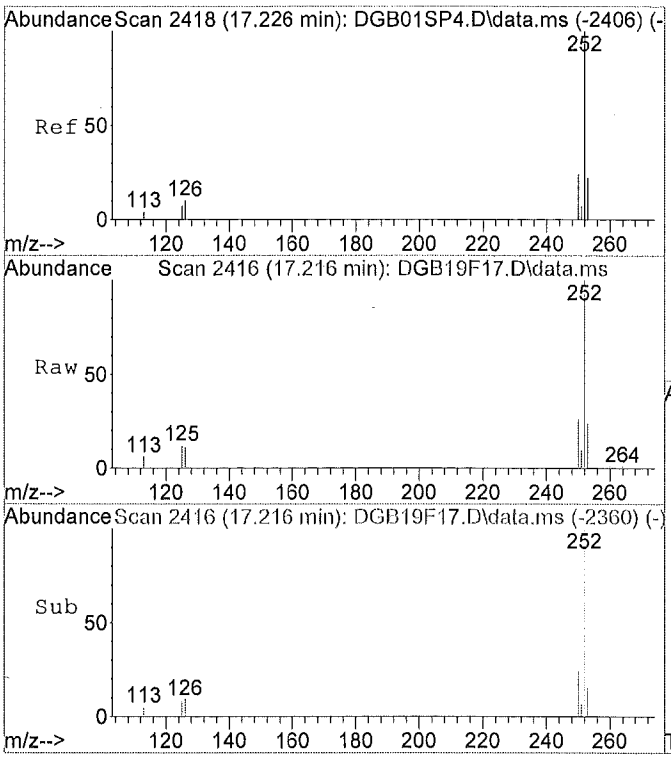


#18
Chrysene
Concen: 0.12 ug/ml
RT: 15.54 min Scan# 2079
Delta R.T. -0.01 min
Lab File: DGB19F17.D
Acq: 06/15/2015 23:31

Tgt Ion:228 Resp: 88938

Ion	Ratio	Lower	Upper
228	100		
226	30.5	19.7	36.7
229	22.5	14.5	26.9
0	0.0	0.0	0.0

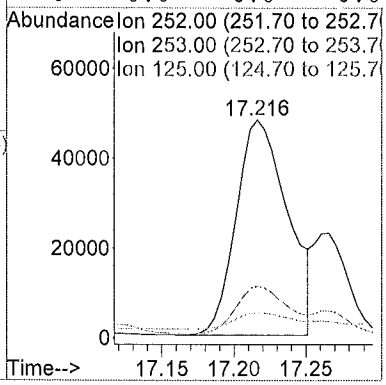


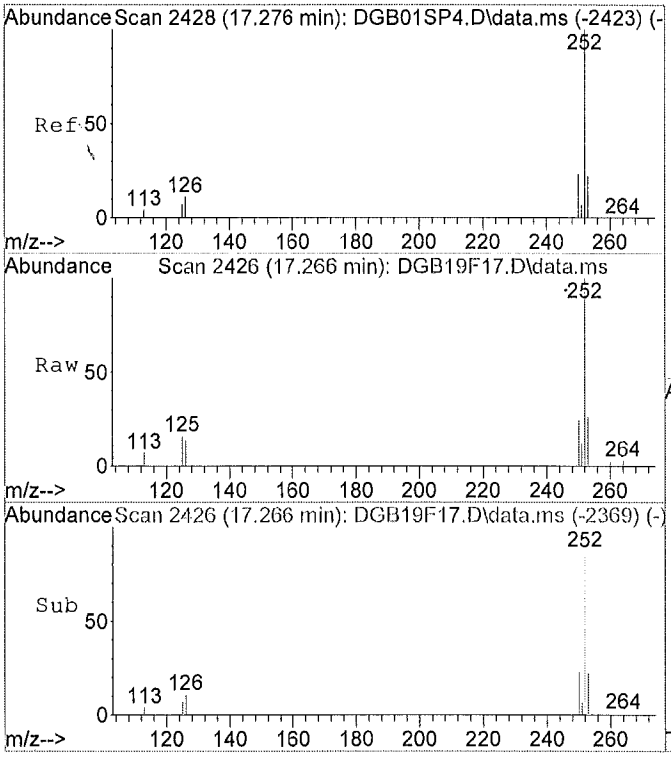


#20
Benzo(b)fluoranthene
Concen: 0.16 ug/ml
RT: 17.22 min Scan# 2416
Delta R.T. -0.01 min
Lab File: DGB19F17.D
Acq: 06/15/2015 23:31

Tgt Ion:252 Resp: 119472

Ion	Ratio	Lower	Upper
252	100		
253	22.1	15.3	28.3
125	10.8	0.0	0.0#
0	0.0	0.0	0.0

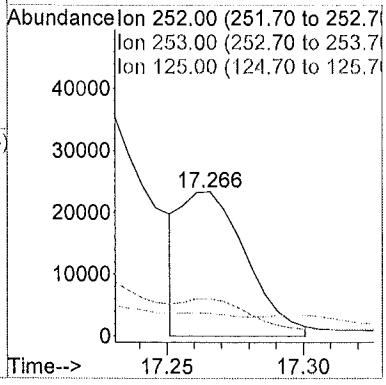




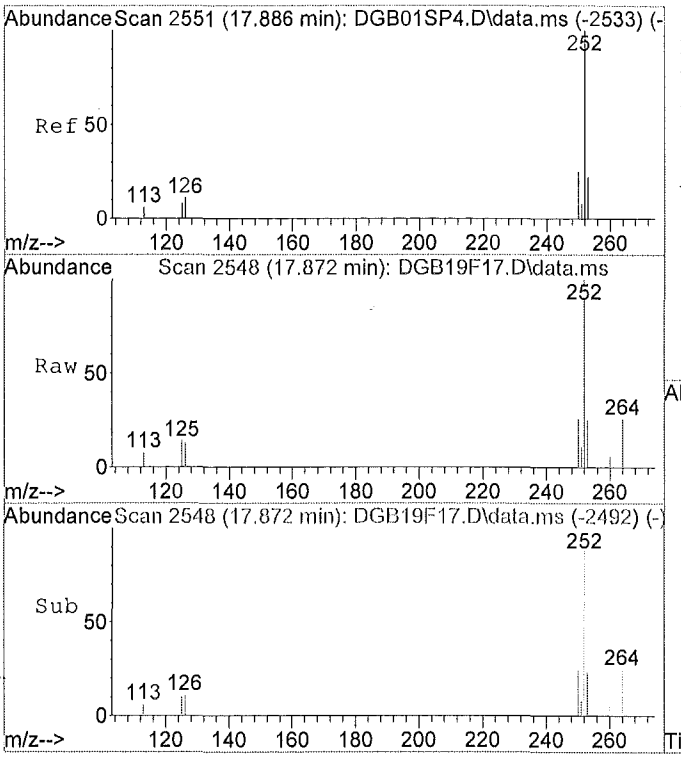
#21
Benzo(k)fluoranthene
Concen: 0.05 ug/ml m
RT: 17.27 min Scan# 2426
Delta R.T. -0.01 min
Lab File: DGB19F17.D
Acq: 06/15/2015 23:31

Tgt Ion:252 Resp: 38984

Ion	Ratio	Lower	Upper
252	100		
253	67.8	15.0	27.8#
125	33.0	0.0	0.0#
0	0.0	0.0	0.0



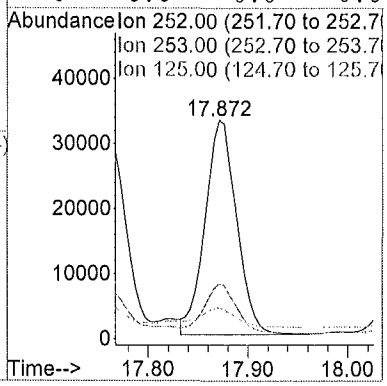
: 00751

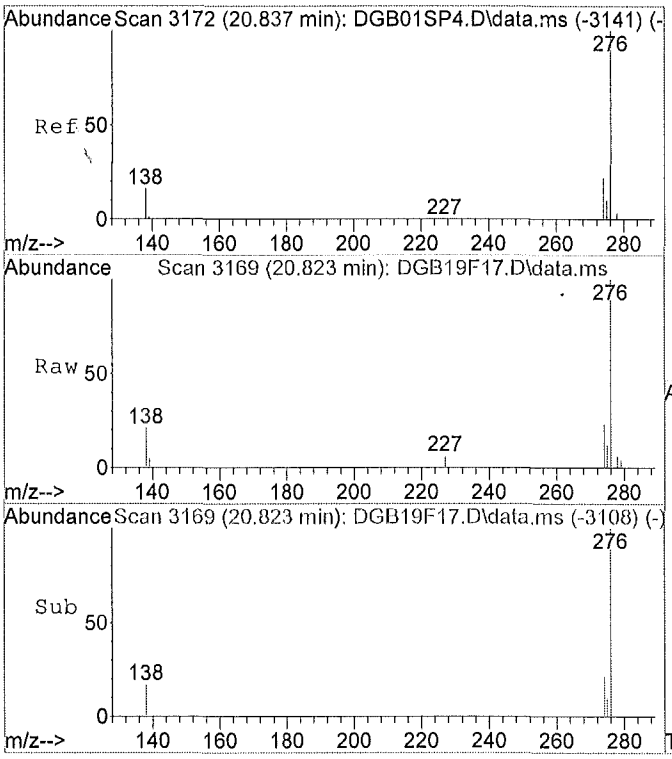


#22
Benzo(a)pyrene
Concen: 0.10 ug/ml
RT: 17.87 min Scan# 2548
Delta R.T. -0.02 min
Lab File: DGB19F17.D
Acq: 06/15/2015 23:31

Tgt Ion:252 Resp: 72341

Ion	Ratio	Lower	Upper
252	100		
253	23.5	15.0	27.8
125	10.6	0.0	0.0#
0	0.0	0.0	0.0

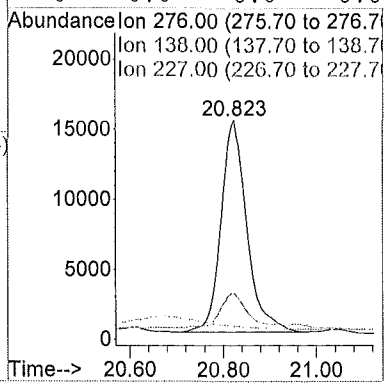


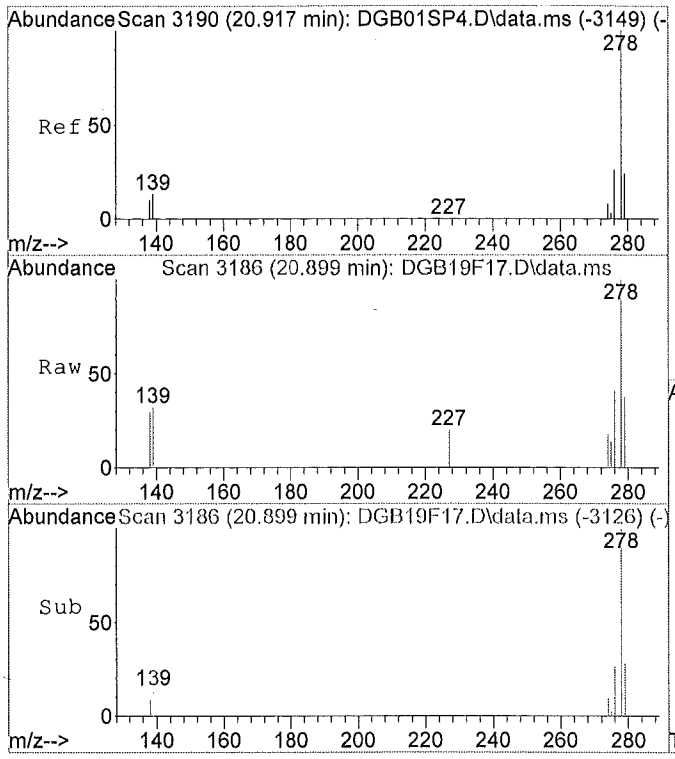


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.09 ug/ml
RT: 20.82 min Scan# 3169
Delta R.T. -0.03 min
Lab File: DGB19F17.D
Acq: 06/15/2015 23:31

Tgt Ion:276 Resp: 57773

Ion	Ratio	Lower	Upper
276	100		
138	17.7	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

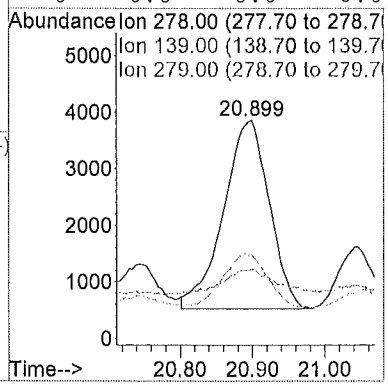




#24
Dibenzo(a,h)anthracene
Concen: 0.02 ug/ml
RT: 20.90 min Scan# 3186
Delta R.T. -0.03 min
Lab File: DGB19F17.D
Acq: 06/15/2015 23:31

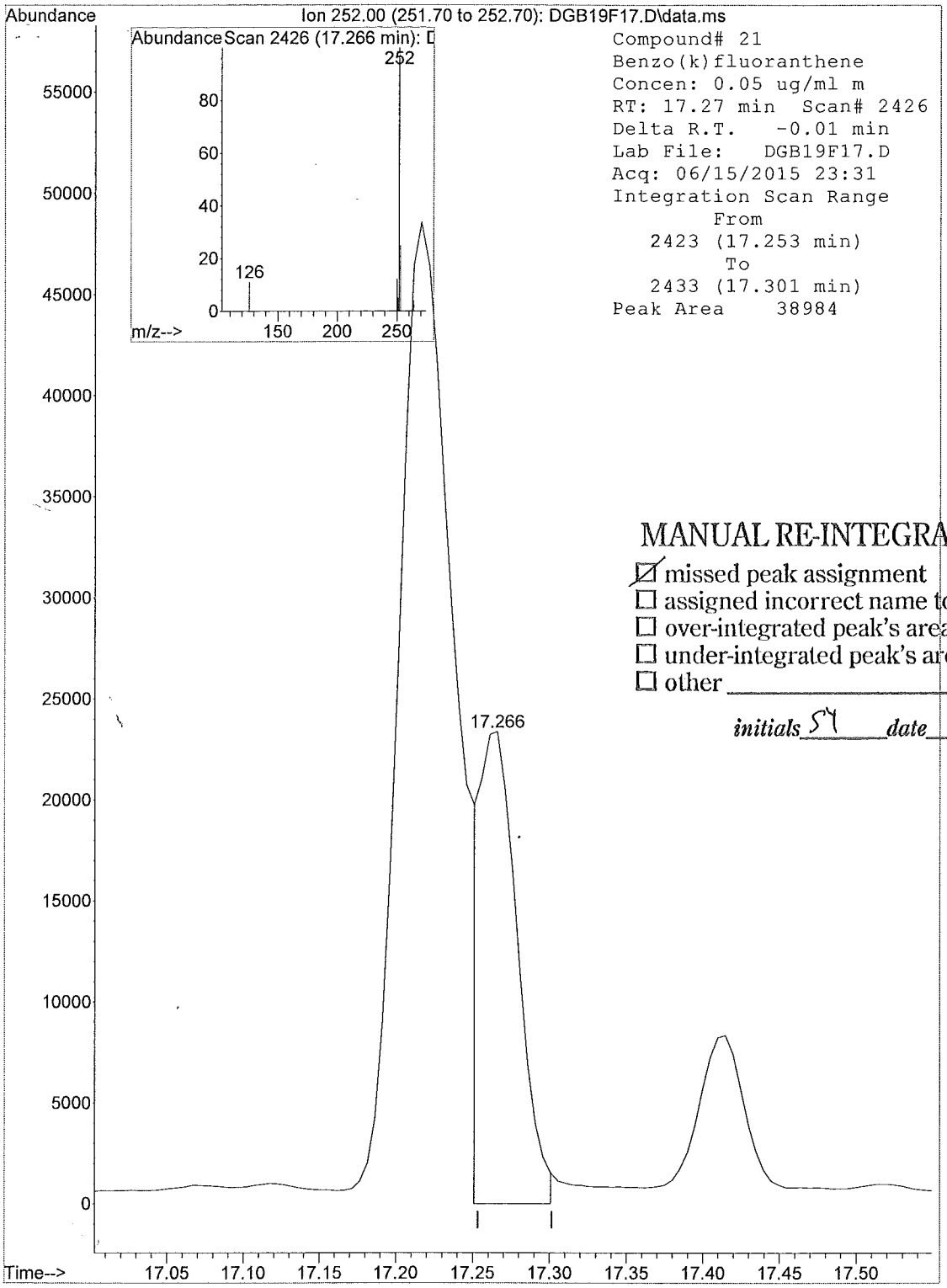
Tgt Ion:278 Resp: 14610

Ion	Ratio	Lower	Upper
278	100		
139	15.7	0.0	0.0#
279	27.7	15.8	29.3
0	0.0	0.0	0.0



00753

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* 6/18/15

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M37

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542018

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DGB22F18

Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 20.0

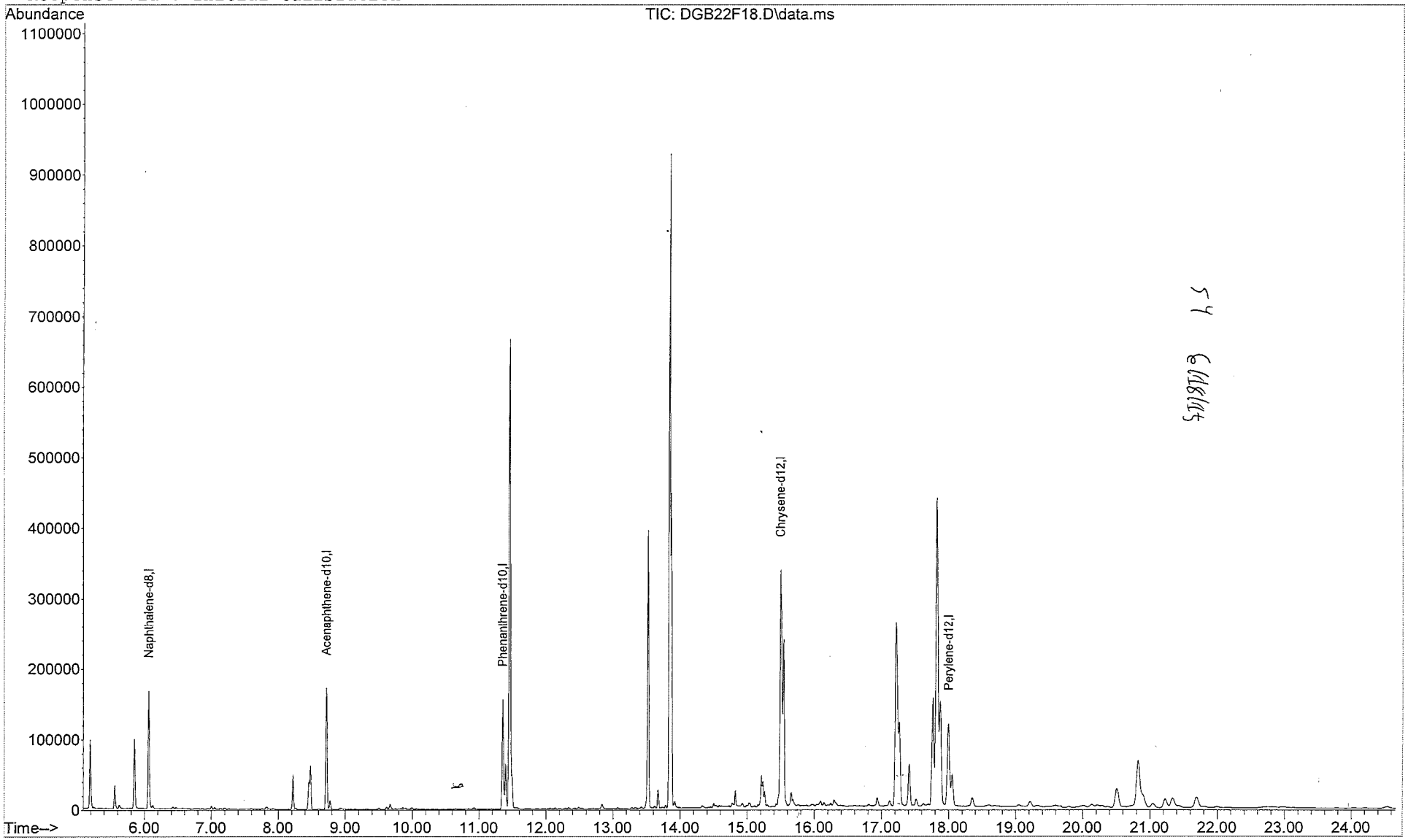
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	76.	U
91-57-6	2-Methylnaphthalene	76.	U
208-96-8	Acenaphthylene	84.	
83-32-9	Acenaphthene	76.	U
86-73-7	Fluorene	76.	U
87-86-5	Pentachlorophenol	150	U
85-01-8	Phenanthrene	86.	
120-12-7	Anthracene	66.	J
206-44-0	Fluoranthene	340	
129-00-0	Pyrene	340	
56-55-3	Benzo(a)anthracene	250	
218-01-9	Chrysene	250	
205-99-2	Benzo(b)fluoranthene	410	
207-08-9	Benzo(k)fluoranthene	120	
50-32-8	Benzo(a)pyrene	210	
193-39-5	Indeno(1,2,3-cd)pyrene	230	
53-70-3	Dibenzo(a,h)anthracene	47.	J
191-24-2	Benzo(g,h,i)perylene	46.	J

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB22F18.D Vial: 19
Acq On : 06/16/2015 01:00 Operator: SY
Sample : 1515542018 F9M37 (20) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 17 15:06:47 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\15JUN15\DGB22F18.D Via1: 19
Acq On : 06/16/2015 01:00 Operator: SY
Sample : 1515542018 F9M37 (20) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 17 15:06:47 2015 Results File: DSOM_SIMJ2.RES

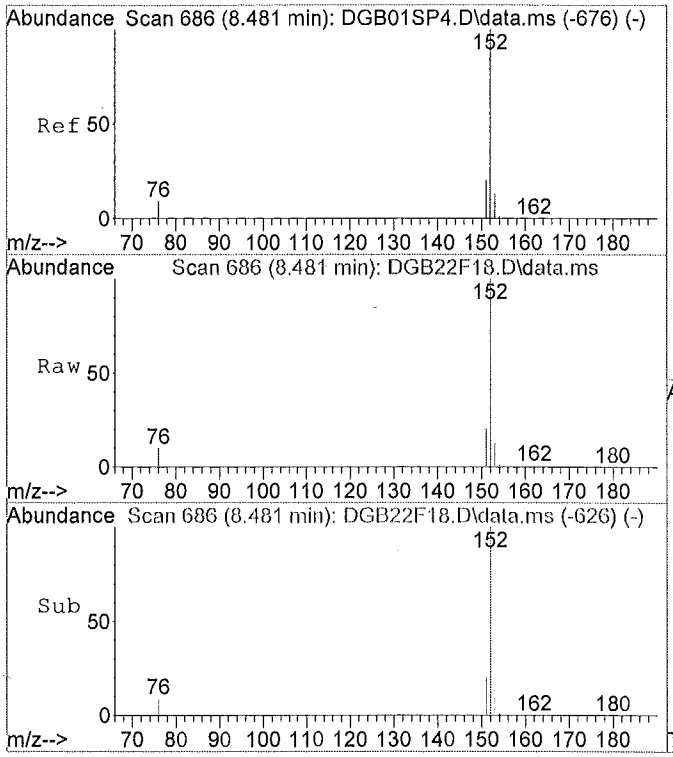
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Qvalue
1) Naphthalene-d8	6.06	136	186946	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	119323	0.40 ug/ml	
9) Phenanthrene-d10	11.35	188	209492	0.40 ug/ml	
15) Chrysene-d12	15.51	240	226056	0.40 ug/ml	
19) Perylene-d12	18.00	264	217200	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	5364	0.018ug/mL	
13) Fluoranthene-d10	13.42	212	866	0.002ug/mL	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	8.48	152	56775	0.109ug/ml	97
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.40	178	67019	0.111ug/ml	99
12) Anthracene	11.49	178	50036	0.085ug/ml	98
14) Fluoranthene	13.52	202	305996	0.446ug/ml	89
16) Pyrene	13.87	202	314481	0.443ug/ml	93
17) Benzo(a)anthracene	15.49	228	193395	0.321ug/ml	89
18) Chrysene	15.54	228	205444	0.323ug/ml	95
20) Benzo(b)fluoranthene	17.22	252	357178	0.528ug/ml	99
21) Benzo(k)fluoranthene	17.27	252	109819	0.157ug/ml m	99
22) Benzo(a)pyrene	17.87	252	177640	0.275ug/ml	96
23) Indeno(1,2,3-c,d)pyrene	20.82	276	170435	0.301ug/ml	100
24) Dibenzo(a,h)anthracene	20.89	278	38418	0.061ug/ml	91
25) Benzo(g,h,i)perylene	21.70	276	37911	0.060ug/ml	75

57
6/18/15

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

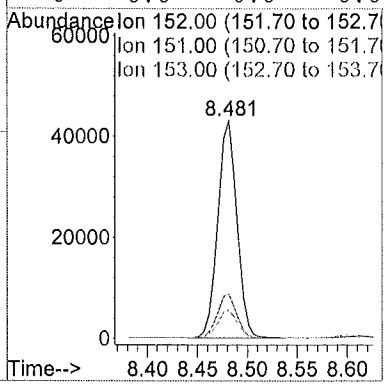
09757

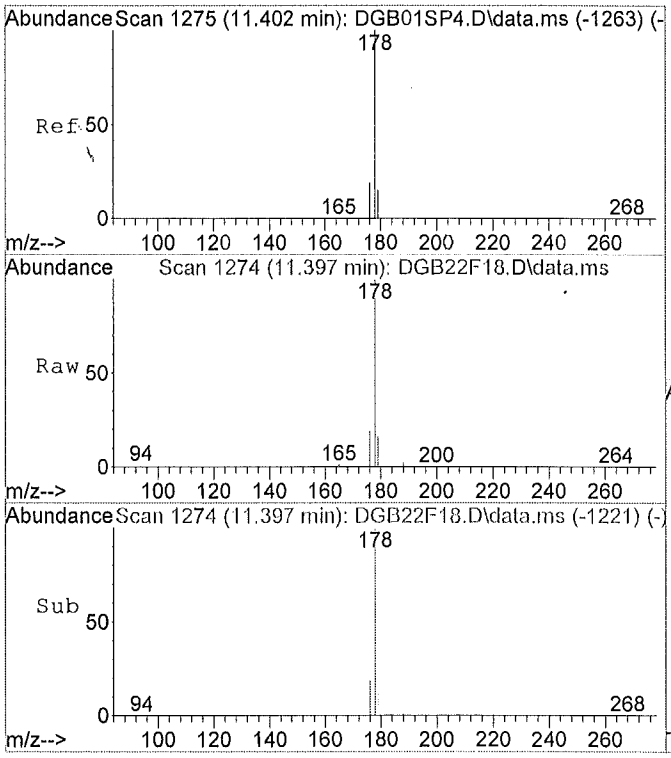


#6
Acenaphthylene
Concen: 0.11 ug/ml
RT: 8.48 min Scan# 686
Delta R.T. -0.00 min
Lab File: DGB22F18.D
Acq: 06/16/2015 01:00

Tgt Ion:152 Resp: 56775

Ion	Ratio	Lower	Upper
152	100		
151	20.3	15.5	28.7
153	13.4	8.8	16.4
0	0.0	0.0	0.0

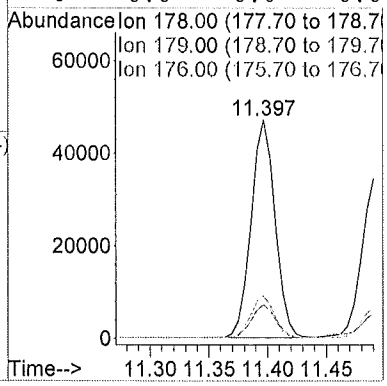




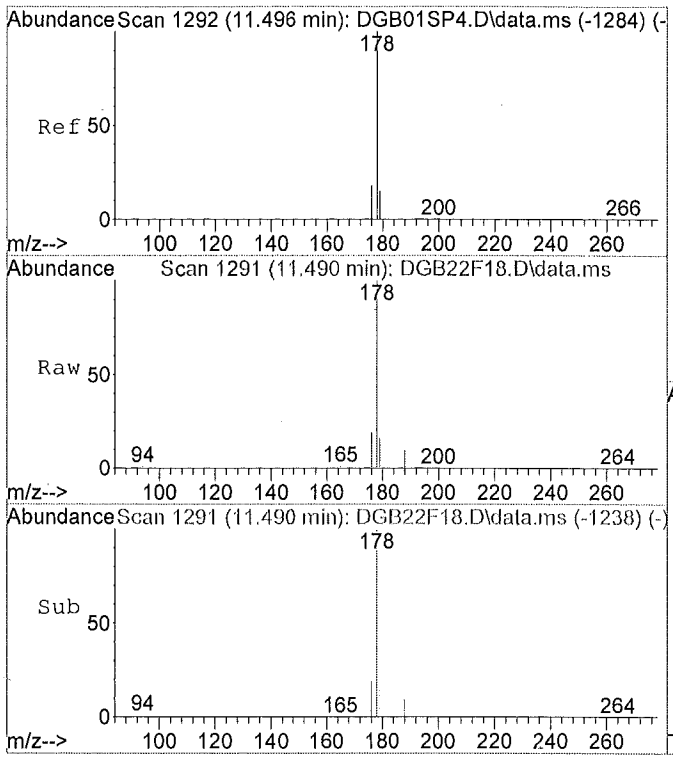
#11
Phenanthrene
Concen: 0.11 ug/ml
RT: 11.40 min Scan# 1274
Delta R.T. -0.01 min
Lab File: DGB22F18.D
Acq: 06/16/2015 01:00

Tgt Ion:178 Resp: 67019

Ion	Ratio	Lower	Upper
178	100		
179	15.6	11.1	20.5
176	19.4	14.1	26.1
0	0.0	0.0	0.0



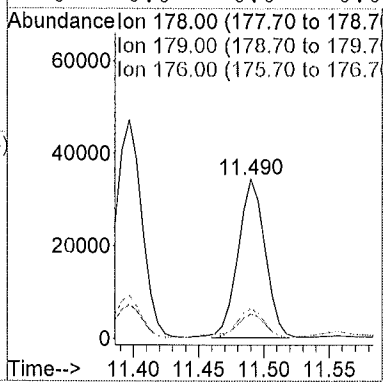
: 00758

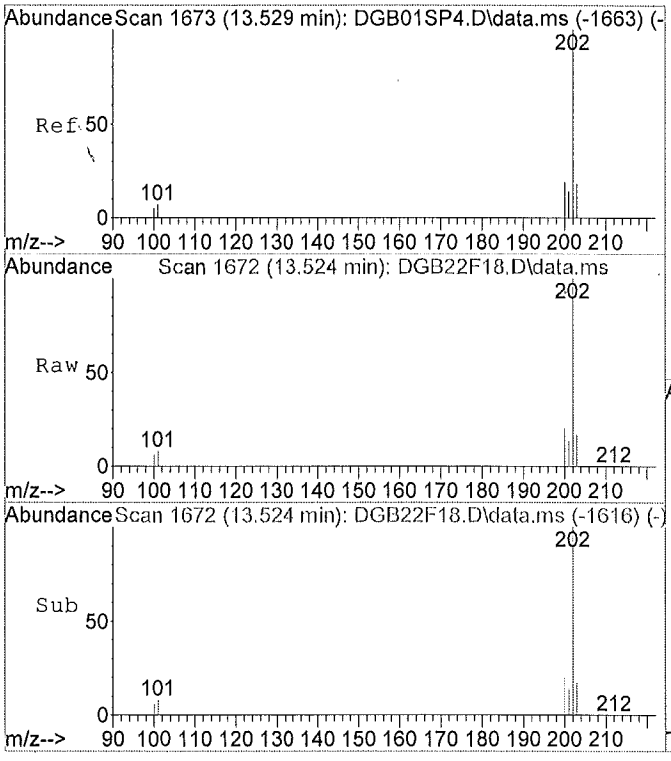


#12
Anthracene
Concen: 0.09 ug/ml
RT: 11.49 min Scan# 1291
Delta R.T. -0.01 min
Lab File: DGB22F18.D
Acq: 06/16/2015 01:00

Tgt Ion:178 Resp: 50036

Ion	Ratio	Lower	Upper
178	100		
179	17.2	11.6	21.6
176	18.5	13.9	25.7
0	0.0	0.0	0.0

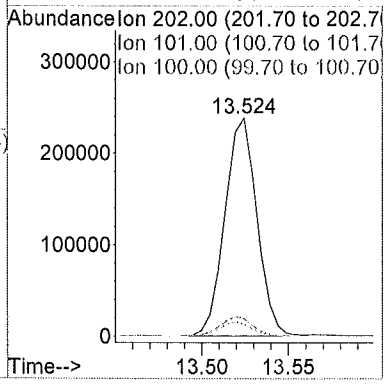


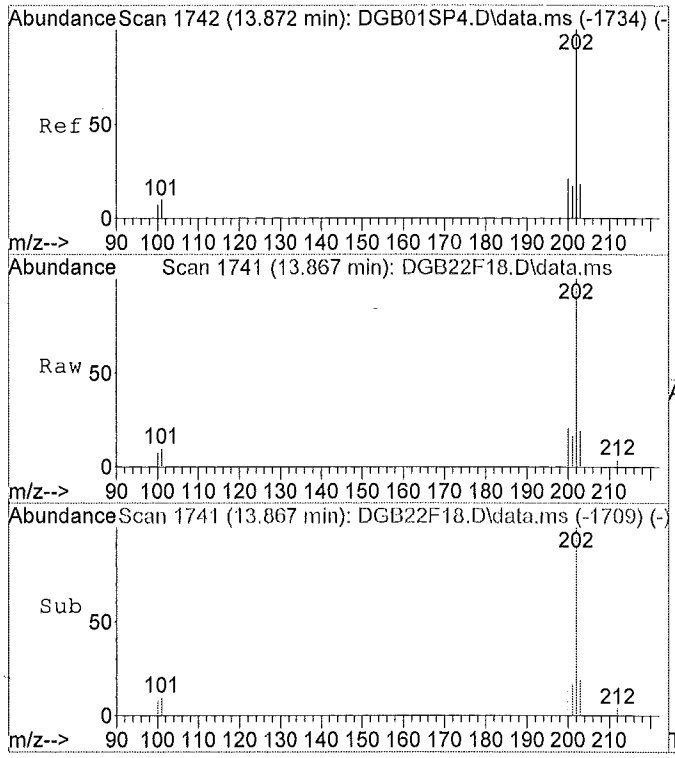


#14
Fluoranthene
Concen: 0.45 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DGB22F18.D
Acq: 06/16/2015 01:00

Tgt Ion:202 Resp: 305996

Ion	Ratio	Lower	Upper
202	100		
101	9.1	9.4	17.6#
100	6.5	0.0	0.0#
0	0.0	0.0	0.0

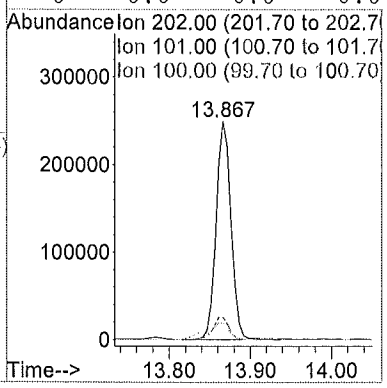


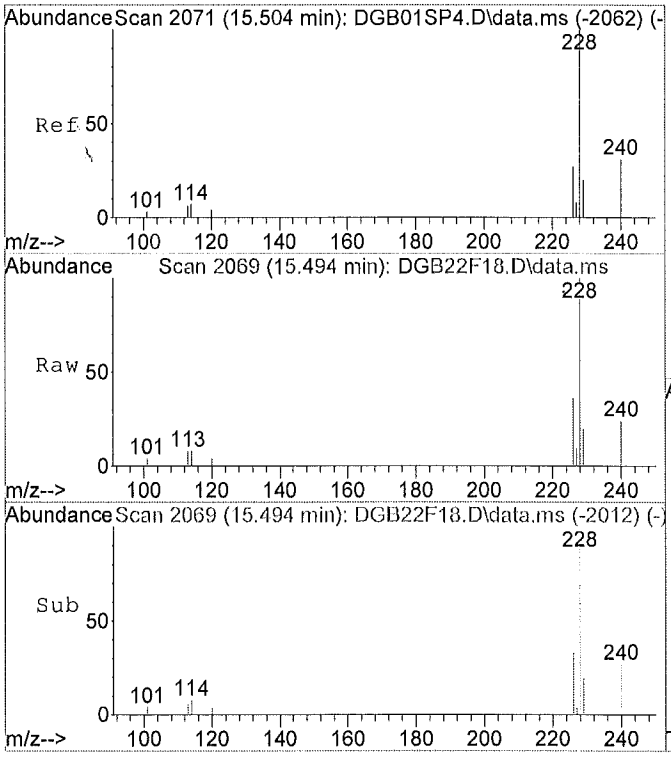


#16
Pyrene
Concen: 0.44 ug/ml
RT: 13.87 min Scan# 1741
Delta R.T. -0.01 min
Lab File: DGB22F18.D
Acq: 06/16/2015 01:00

Tgt Ion:202 Resp: 314481

Ion	Ratio	Lower	Upper
202	100		
101	11.2	10.6	19.6
100	11.3	9.4	17.4
0	0.0	0.0	0.0

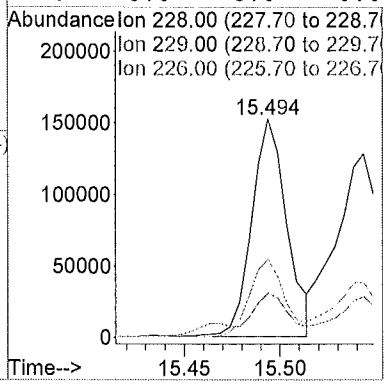




#17
Benzo(a)anthracene
Concen: 0.32 ug/ml
RT: 15.49 min Scan# 2069
Delta R.T. -0.01 min
Lab File: DGB22F18.D
Acq: 06/16/2015 01:00

Tgt Ion:228 Resp: 193395

Ion	Ratio	Lower	Upper
228	100		
229	20.8	14.5	26.9
226	36.1	18.5	34.3#
0	0.0	0.0	0.0



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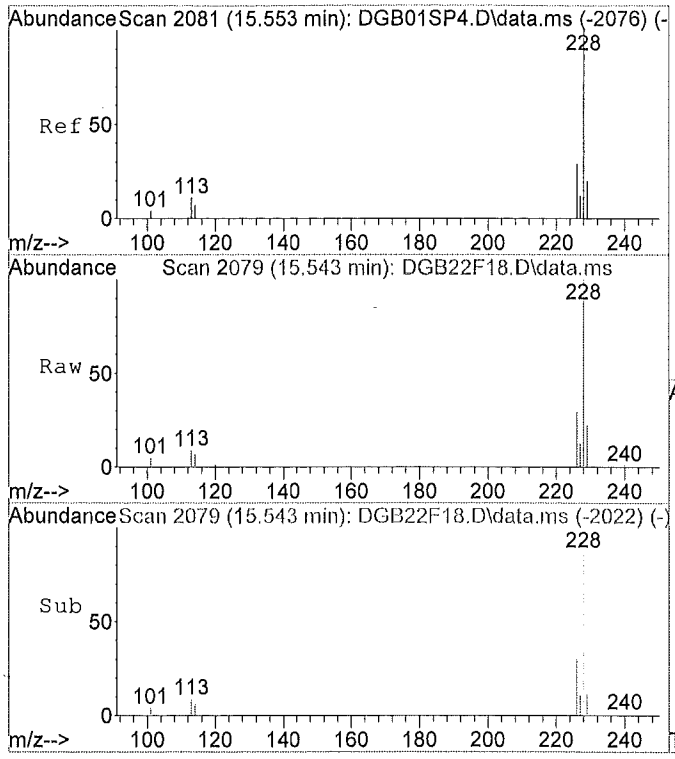
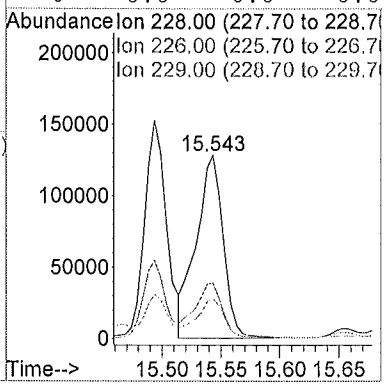
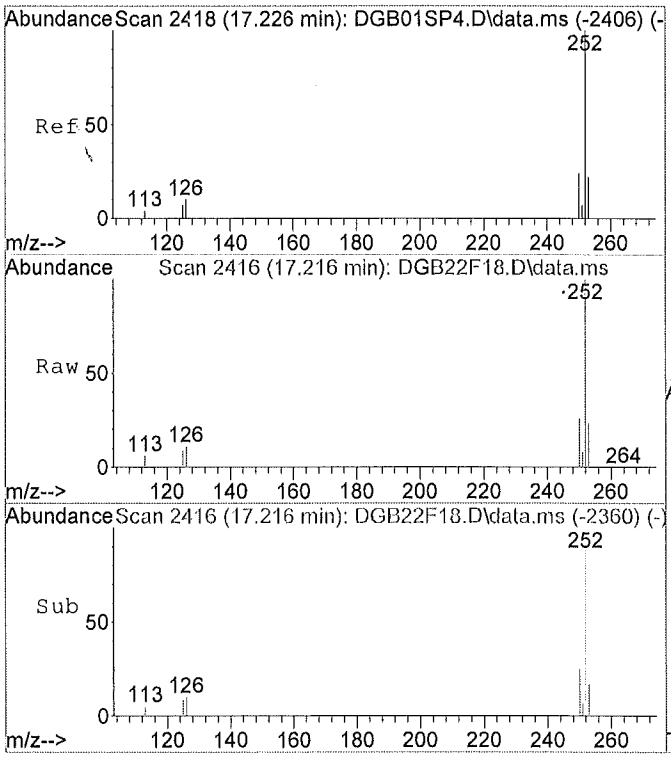


#18
Chrysene
Concen: 0.32 ug/ml
RT: 15.54 min Scan# 2079
Delta R.T. -0.01 min
Lab File: DGB22F18.D
Acq: 06/16/2015 01:00

Tgt Ion:228 Resp: 205444

Ion	Ratio	Lower	Upper
228	100		
226	31.0	19.7	36.7
229	22.5	14.5	26.9
0	0.0	0.0	0.0

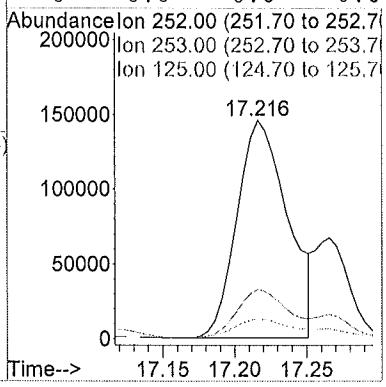


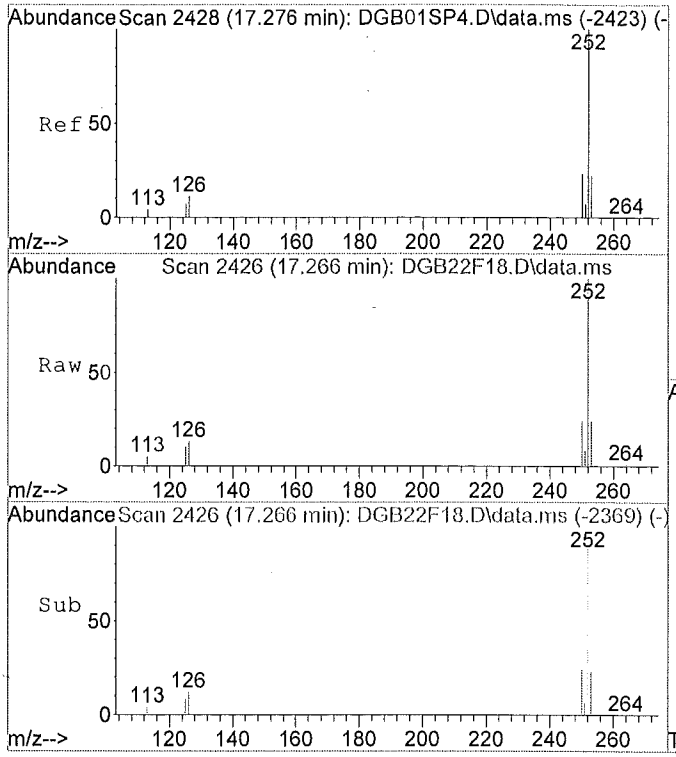


#20
Benzo(b)fluoranthene
Concen: 0.53 ug/ml
RT: 17.22 min Scan# 2416
Delta R.T. -0.01 min
Lab File: DGB22F18.D
Acq: 06/16/2015 01:00

Tgt Ion:252 Resp: 357178

Ion	Ratio	Lower	Upper
252	100		
253	22.1	15.3	28.3
125	9.3	0.0	0.0#
0	0.0	0.0	0.0

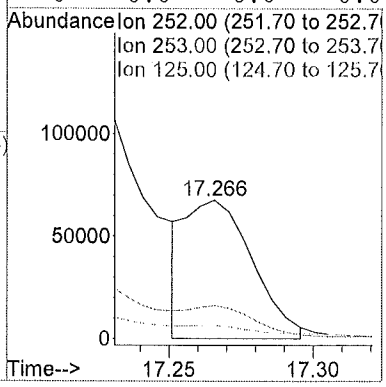


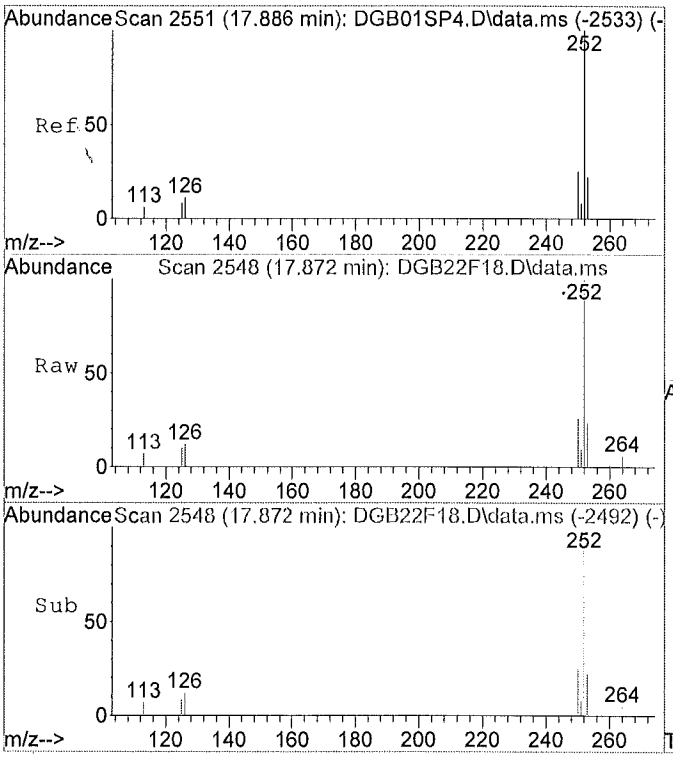


#21
Benzo(k)fluoranthene
Concen: 0.16 ug/ml m
RT: 17.27 min Scan# 2426
Delta R.T. -0.01 min
Lab File: DGB22F18.D
Acq: 06/16/2015 01:00

Tgt Ion:252 Resp: 109819

Ion	Ratio	Lower	Upper
252	100		
253	71.9	15.0	27.8#
125	30.4	0.0	0.0#
0	0.0	0.0	0.0

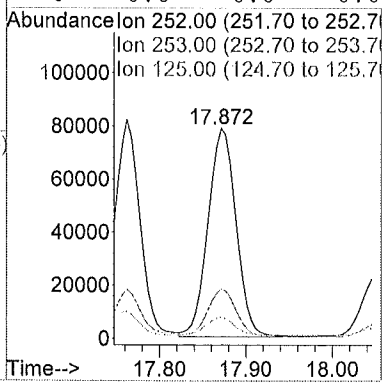




#22
Benzo(a)pyrene
Concen: 0.27 ug/ml
RT: 17.87 min Scan# 2548
Delta R.T. -0.02 min
Lab File: DGB22F18.D
Acq: 06/16/2015 01:00

Tgt Ion:252 Resp: 177640

Ion	Ratio	Lower	Upper
252	100		
253	23.1	15.0	27.8
125	9.1	0.0	0.0#
0	0.0	0.0	0.0



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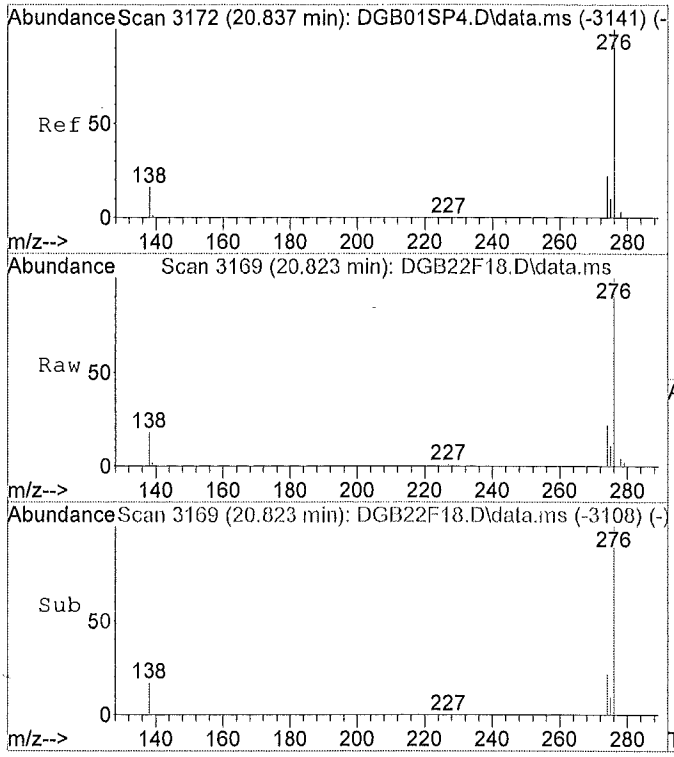
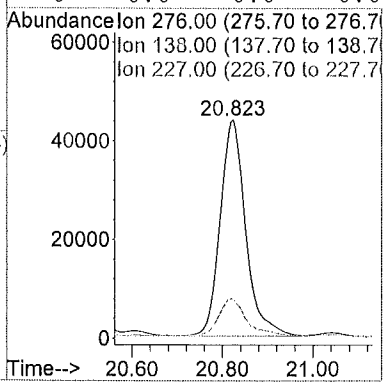
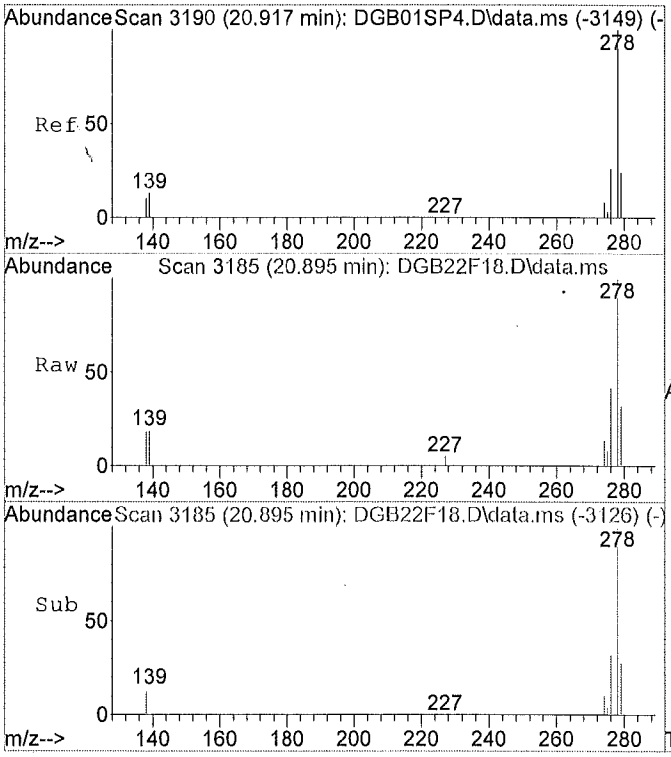


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.30 ug/ml
RT: 20.82 min Scan# 3169
Delta R.T. -0.03 min
Lab File: DGB22F18.D
Acq: 06/16/2015 01:00

Tgt Ion:276 Resp: 170435

Ion	Ratio	Lower	Upper
276	100		
138	19.2	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

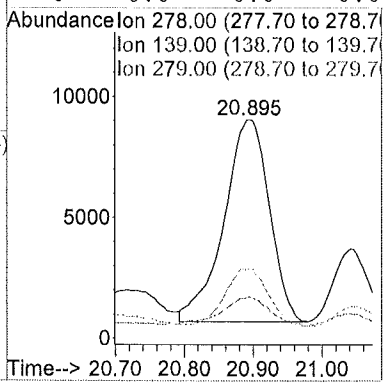


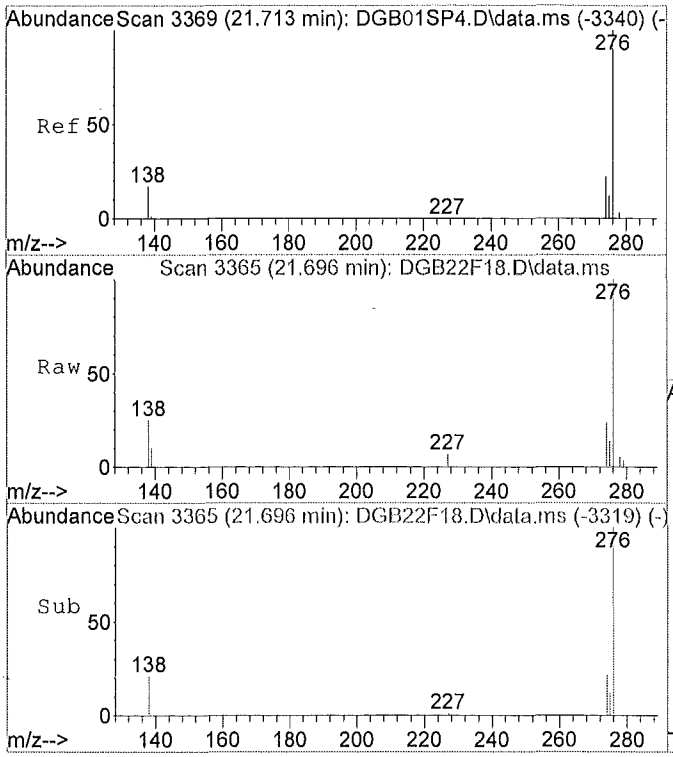


#24
Dibenzo(a,h)anthracene
Concen: 0.06 ug/ml
RT: 20.89 min Scan# 3185
Delta R.T. -0.04 min
Lab File: DGB22F18.D
Acq: 06/16/2015 01:00

Tgt Ion:278 Resp: 38418

Ion	Ratio	Lower	Upper
278	100		
139	14.9	0.0	0.0#
279	26.9	15.8	29.3
0	0.0	0.0	0.0

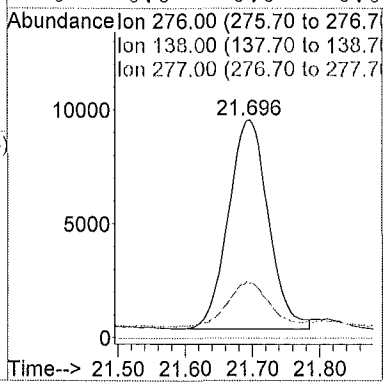




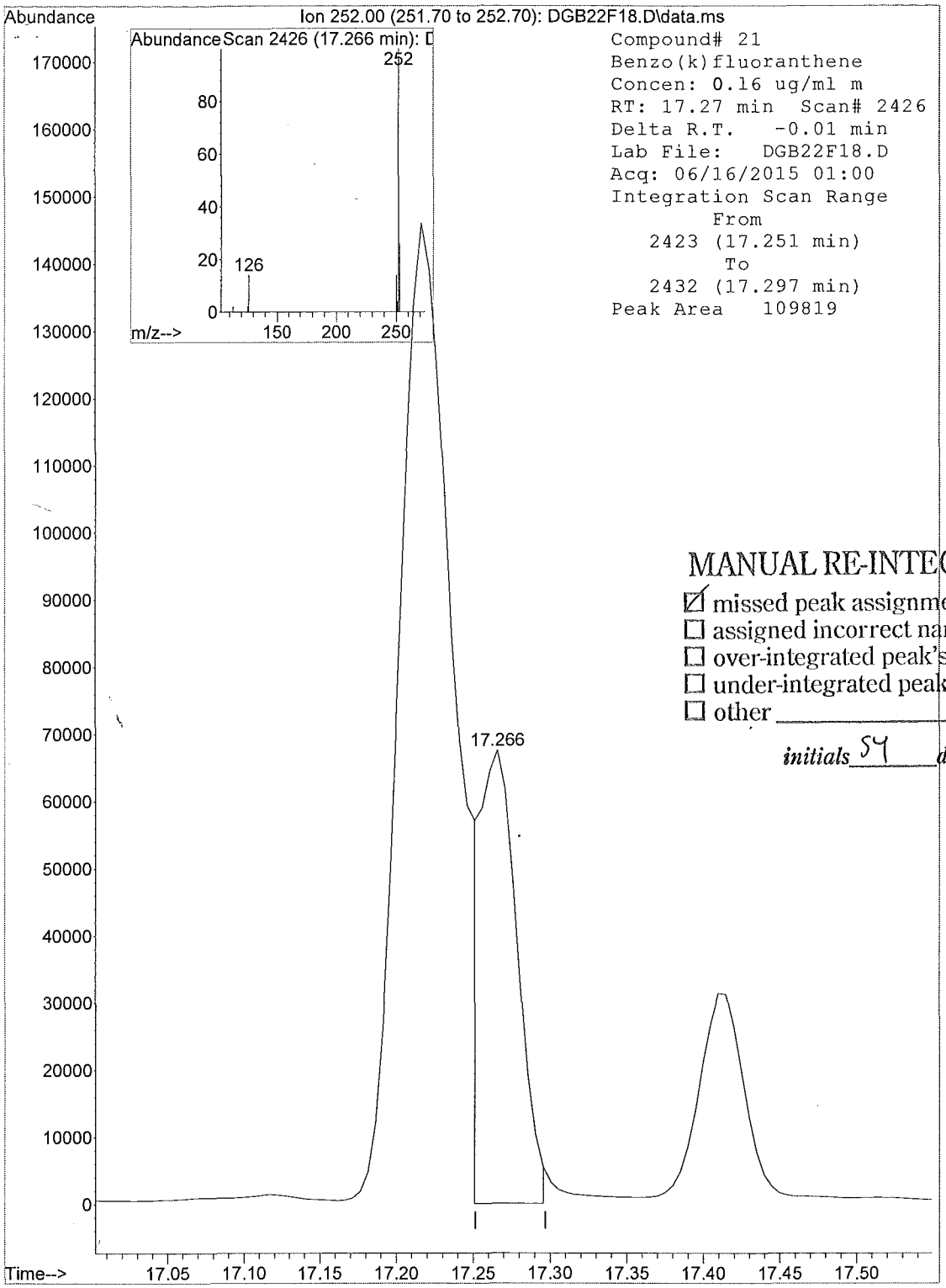
#25
Benzo(g,h,i)perylene
Concen: 0.06 ug/ml
RT: 21.70 min Scan# 3365
Delta R.T. -0.03 min
Lab File: DGB22F18.D
Acq: 06/16/2015 01:00

Tgt Ion:276 Resp: 37911

Ion	Ratio	Lower	Upper
276	100		
138	22.3	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* 6/18/15

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M38

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542019

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DGB23F19

Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 10.0

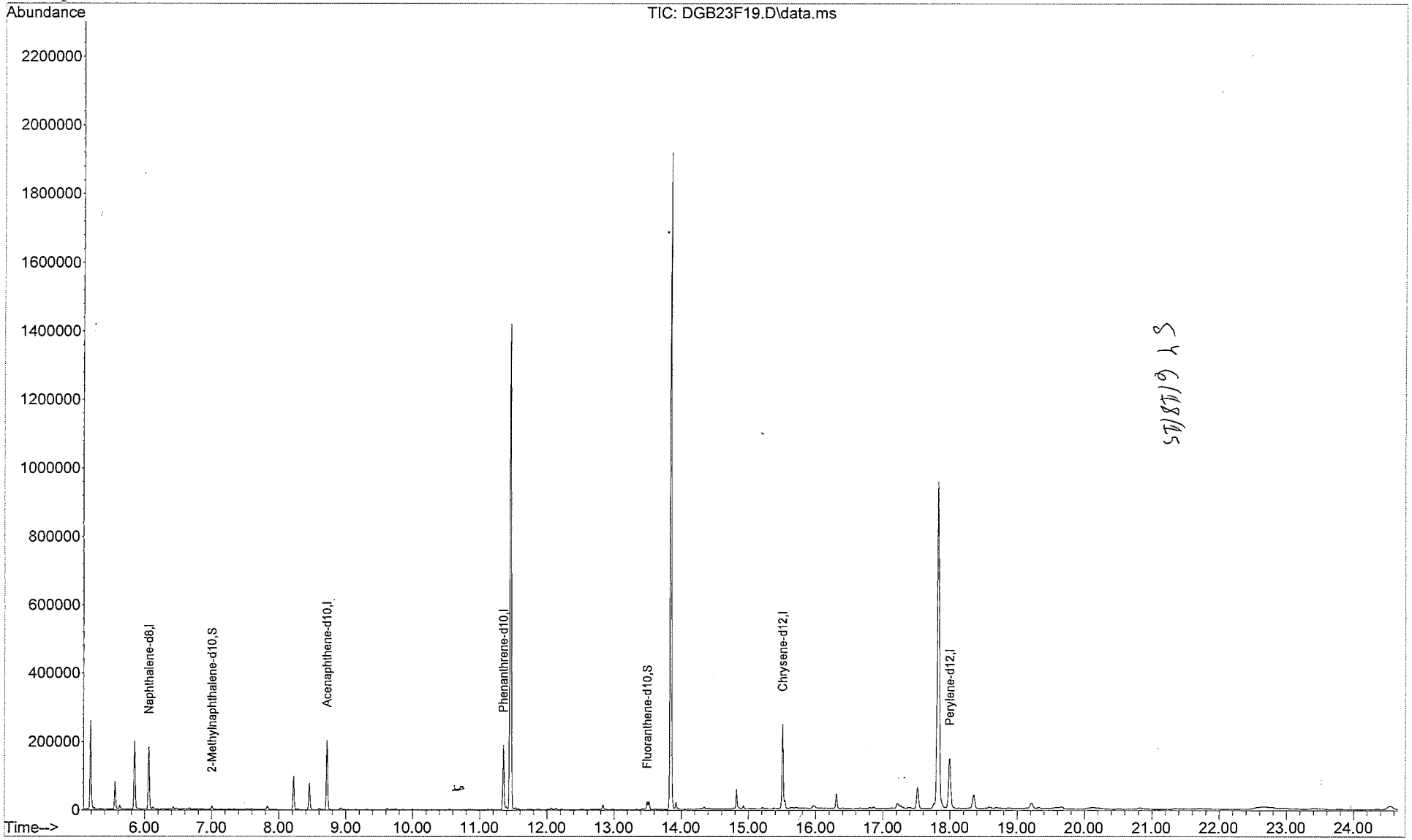
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	37.	U
91-57-6	2-Methylnaphthalene	37.	U
208-96-8	Acenaphthylene	37.	U
83-32-9	Acenaphthene	37.	U
86-73-7	Fluorene	37.	U
87-86-5	Pentachlorophenol	76.	U
85-01-8	Phenanthrene	37.	U
120-12-7	Anthracene	37.	U
206-44-0	Fluoranthene	8.6	J
129-00-0	Pyrene	8.1	J
56-55-3	Benzo(a)anthracene	37.	U
218-01-9	Chrysene	9.6	J
205-99-2	Benzo(b)fluoranthene	9.6	J
207-08-9	Benzo(k)fluoranthene	37.	U
50-32-8	Benzo(a)pyrene	37.	U
193-39-5	Indeno(1,2,3-cd)pyrene	37.	U
53-70-3	Dibenzo(a,h)anthracene	37.	U
191-24-2	Benzo(g,h,i)perylene	37.	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB23F19.D Vial: 20
Acq On : 06/16/2015 01:29 Operator: SY
Sample : 1515542019 F9M38 (10) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 17 15:07:23 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\15JUN15\DGB23F19.D Vial: 20
Acq On : 06/16/2015 01:29 Operator: SY
Sample : 1515542019 F9M38 (10) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 17 15:07:23 2015 Results File: DSOM_SIMJ2.RES

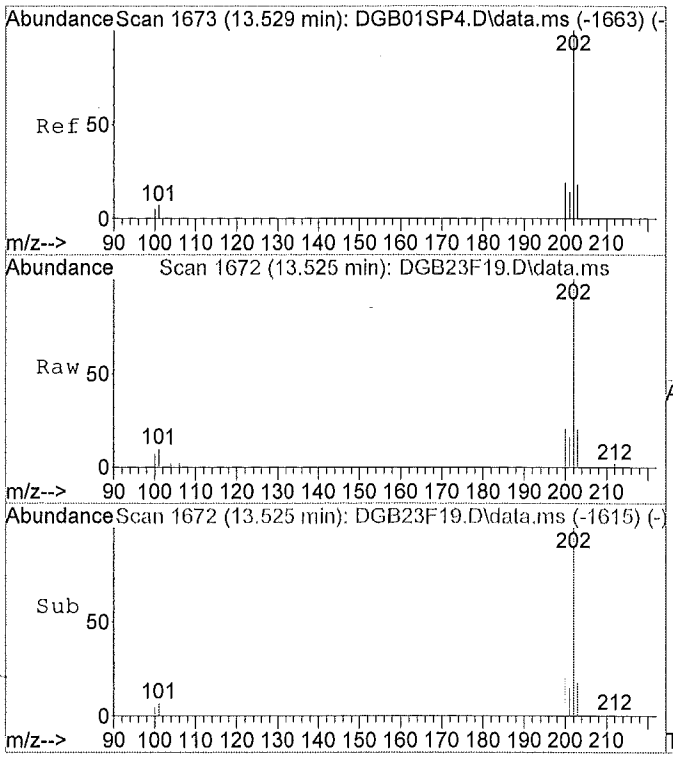
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.06	136	210355	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	137284	0.40 ug/ml	
9) Phenanthrene-d10	11.35	188	244033	0.40 ug/ml	
15) Chrysene-d12	15.51	240	267852	0.40 ug/ml	
19) Perylene-d12	18.00	264	263228	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	11628	0.034ug/mL	
13) Fluoranthene-d10	13.49	212	22960	0.034ug/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	13.52	202	18112	0.023ug/ml	77
16) Pyrene	13.87	202	18125	0.022ug/ml m	1
17) Benzo(a)anthracene	0.00	228		Not Detected	
18) Chrysene	15.54	228	19161	0.025ug/ml	96
20) Benzo(b)fluoranthene	17.22	252	20803	0.025ug/ml	98
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	

SY 6/18/15

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

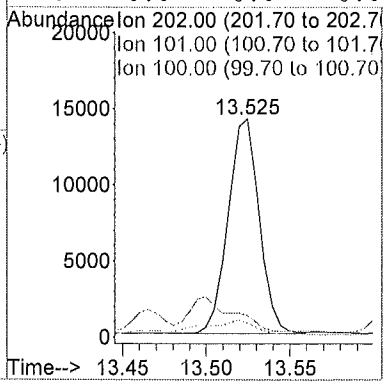
08768

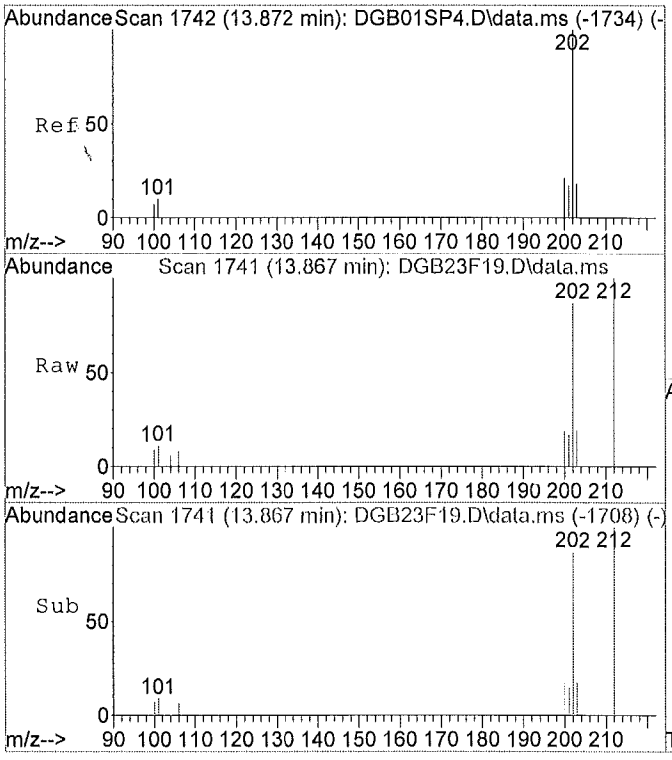


#14
Fluoranthene
Concen: 0.02 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DGB23F19.D
Acq: 06/16/2015 01:29

Tgt Ion:202 Resp: 18112

Ion	Ratio	Lower	Upper
202	100		
101	22.6	9.4	17.6#
100	11.1	0.0	0.0#
0	0.0	0.0	0.0

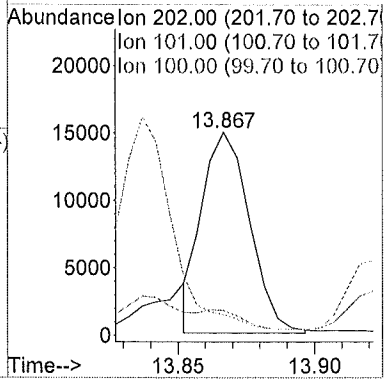


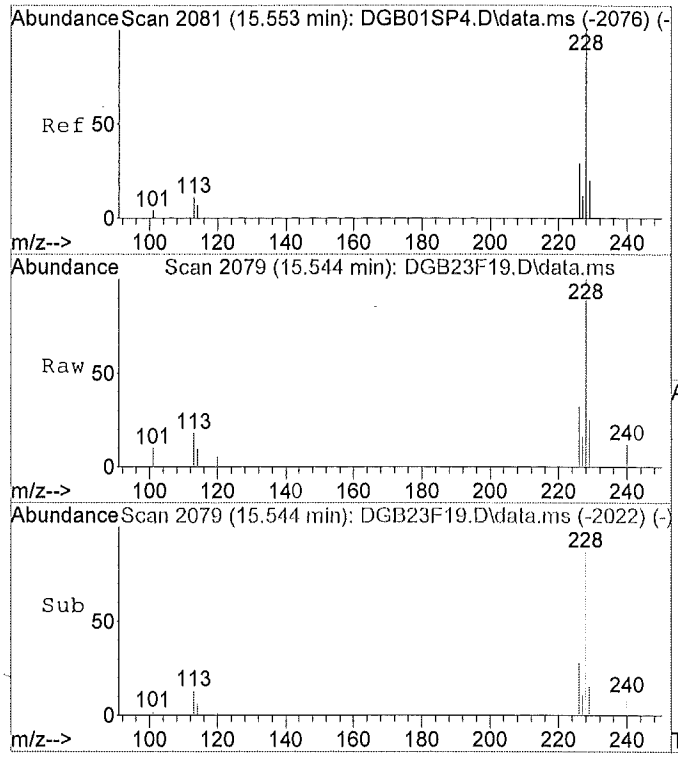


#16
Pyrene
Concen: 0.02 ug/ml m
RT: 13.87 min Scan# 1741
Delta R.T. -0.01 min
Lab File: DGB23F19.D
Acq: 06/16/2015 01:29

Tgt Ion:202 Resp: 18125

Ion	Ratio	Lower	Upper
202	100		
101	24.2	10.6	19.6#
100	138.3	9.4	17.4#
0	0.0	0.0	0.0

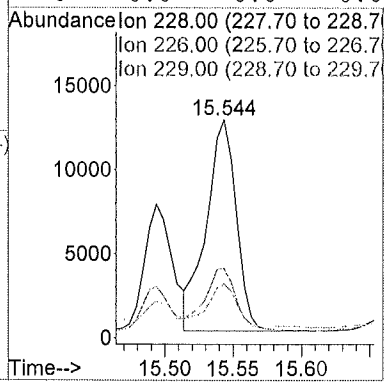


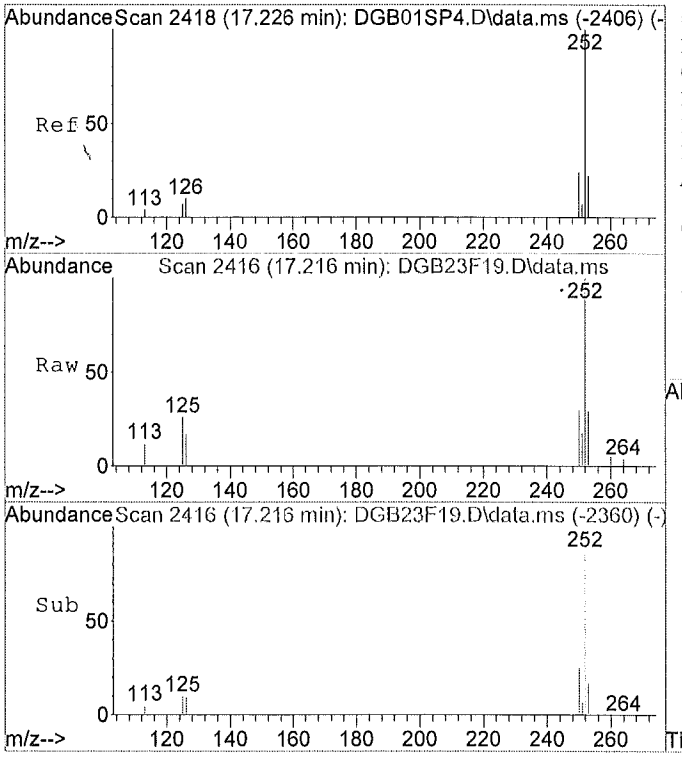


#18
Chrysene
Concen: 0.03 ug/ml
RT: 15.54 min Scan# 2079
Delta R.T. -0.01 min
Lab File: DGB23F19.D
Acq: 06/16/2015 01:29

Tgt Ion:228 Resp: 19161

Ion	Ratio	Lower	Upper
228	100		
226	31.4	19.7	36.7
229	21.4	14.5	26.9
0	0.0	0.0	0.0

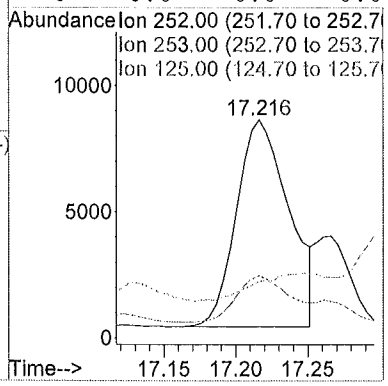




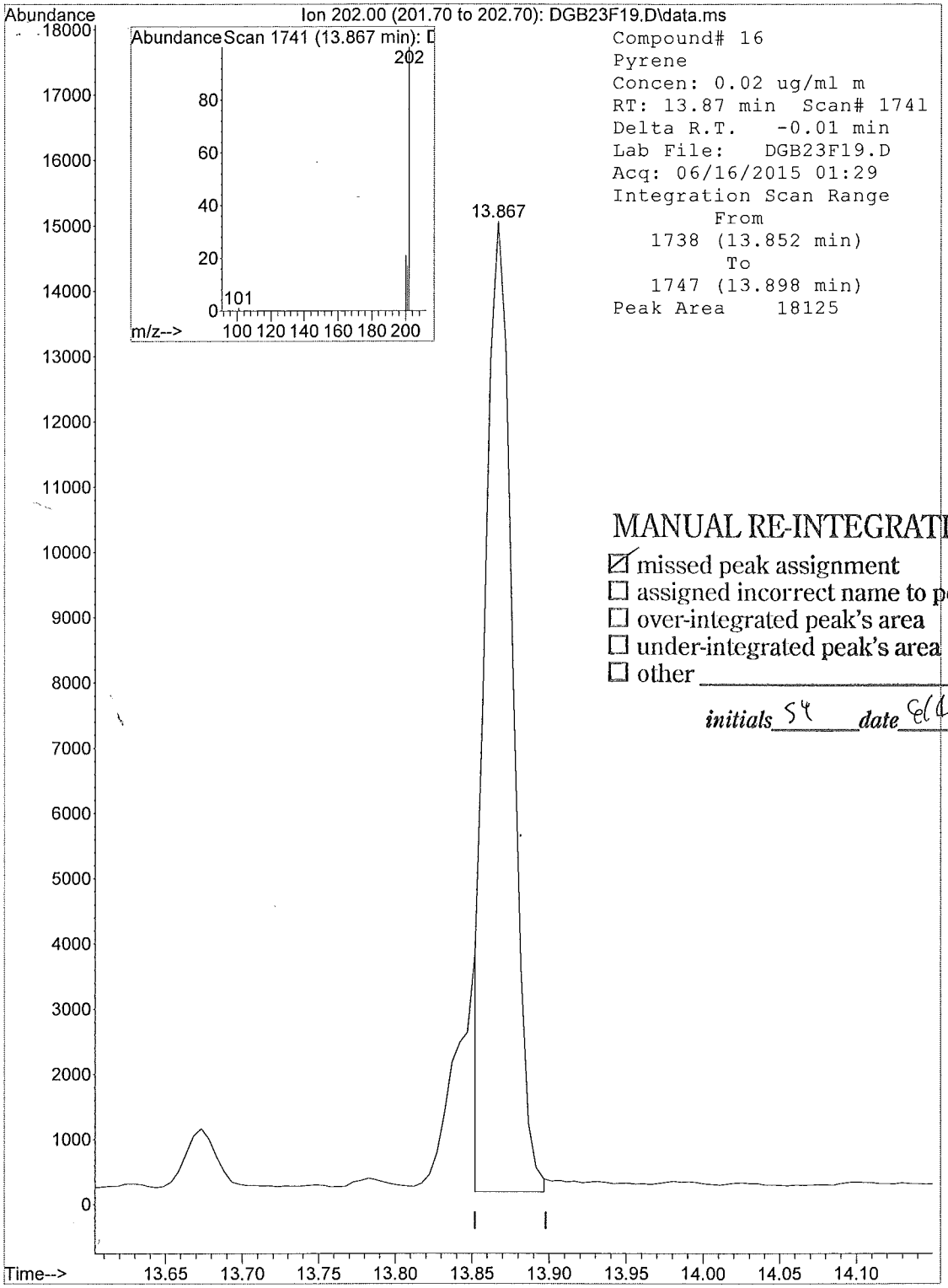
#20
Benzo(b)fluoranthene
Concen: 0.03 ug/ml
RT: 17.22 min Scan# 2416
Delta R.T. -0.01 min
Lab File: DGB23F19.D
Acq: 06/16/2015 01:29

Tgt Ion:252 Resp: 20803

Ion	Ratio	Lower	Upper
252	100		
253	22.8	15.3	28.3
125	24.0	0.0	0.0#
0	0.0	0.0	0.0



MANUAL INTEGRATION FOR Pyrene



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* 6/18/15

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M39

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542020

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DGB24F20

Extraction: (Type) SONC

% Moisture: 13. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2015

GPC Cleanup: (Y/N) Y pH: 6.5 Dilution Factor: 5.0

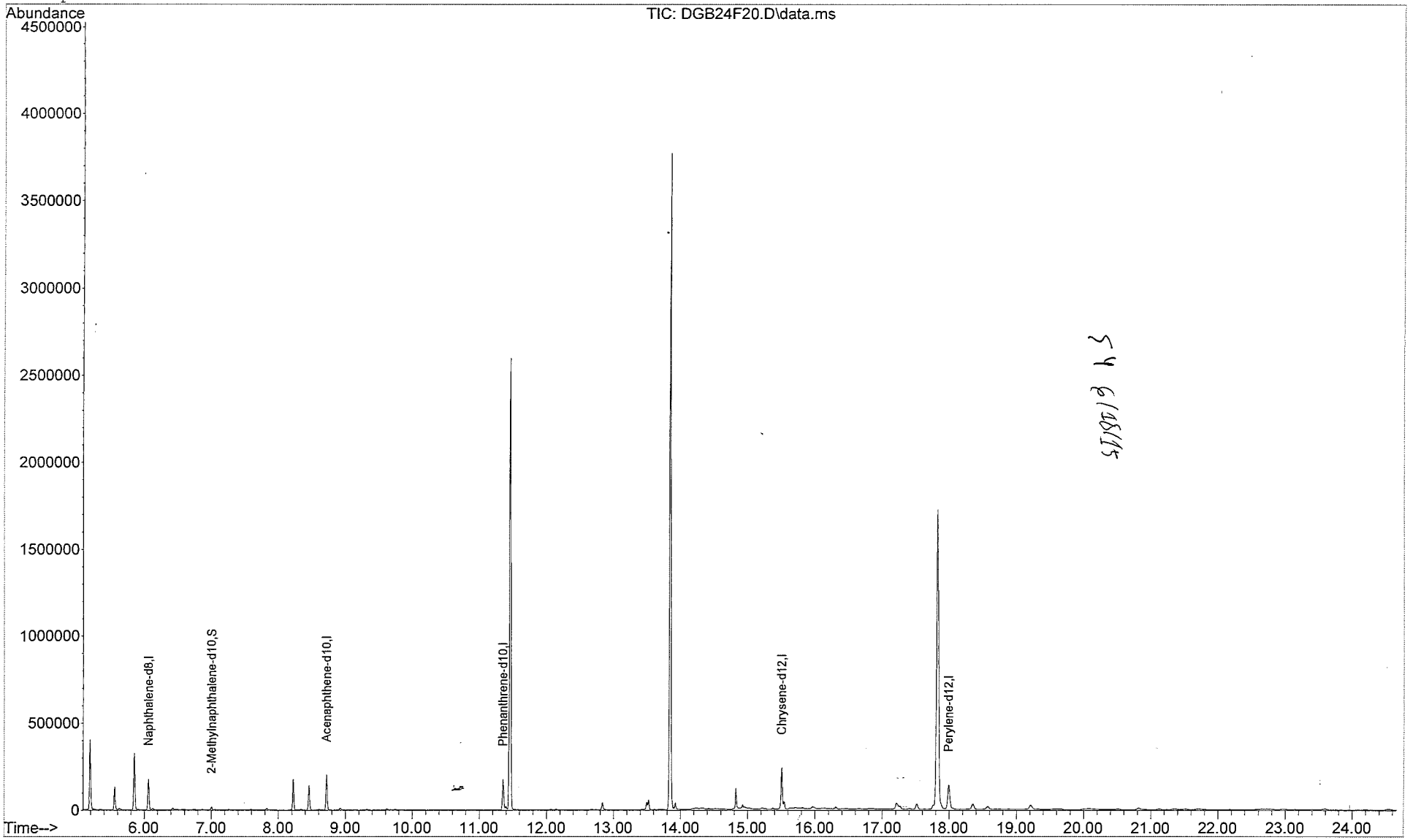
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	19.	U
91-57-6	2-Methylnaphthalene	19.	U
208-96-8	Acenaphthylene	19.	U
83-32-9	Acenaphthene	19.	U
86-73-7	Fluorene	19.	U
87-86-5	Pentachlorophenol	38.	U
85-01-8	Phenanthrene	6.0	J
120-12-7	Anthracene	19.	U
206-44-0	Fluoranthene	11.	J
129-00-0	Pyrene	10.	J
56-55-3	Benzo(a)anthracene	6.8	J
218-01-9	Chrysene	8.8	J
205-99-2	Benzo(b)fluoranthene	12.	J
207-08-9	Benzo(k)fluoranthene	19.	U
50-32-8	Benzo(a)pyrene	6.3	J
193-39-5	Indeno(1,2,3-cd)pyrene	6.9	J
53-70-3	Dibenzo(a,h)anthracene	19.	U
191-24-2	Benzo(g,h,i)perylene	19.	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB24F20.D Vial: 21
Acq On : 06/16/2015 01:59 Operator: SY
Sample : 1515542020 F9M39 (5) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 17 15:08:00 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

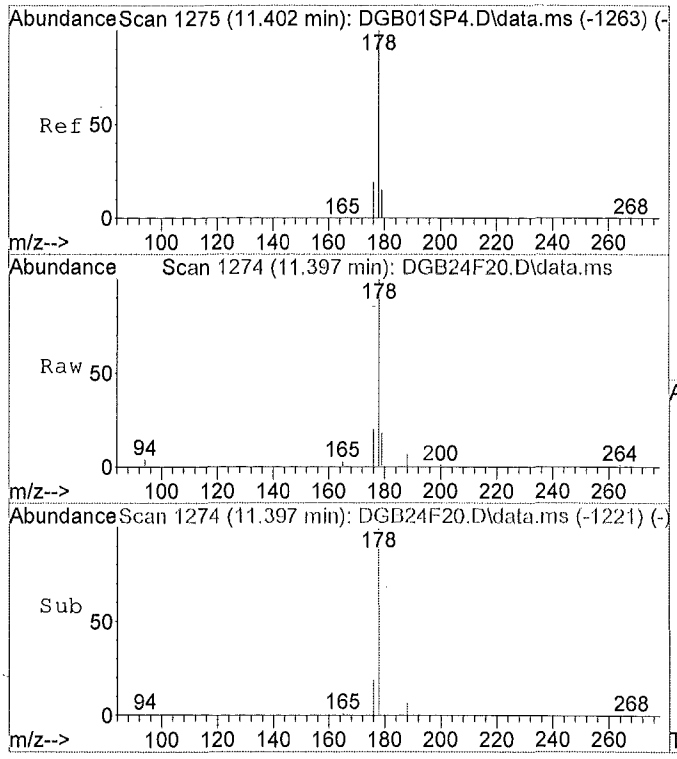
Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB24F20.D Vial: 21
Acq On : 06/16/2015 01:59 Operator: SY
Sample : 1515542020 F9M39 (5) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 17 15:08:00 2015 Results File: DSOM_SIMJ2.RES

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	6.06	136	199325	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	133745	0.40 ug/ml	
9) Phenanthrene-d10	11.35	188	238102	0.40 ug/ml	
15) Chrysene-d12	15.51	240	259539	0.40 ug/ml	
19) Perylene-d12	17.99	264	259435	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	19670	0.061ug/mL	
13) Fluoranthene-d10	13.31	212	506	0.001ug/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	11.40	178	21732	0.032ug/ml	97
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.52	202	45048	0.058ug/ml	84
16) Pyrene	13.87	202	43463	0.053ug/ml m 6/18/15	1
17) Benzo(a)anthracene	15.49	228	24888	0.036ug/ml	93
18) Chrysene	15.54	228	33920	0.046ug/ml	96
20) Benzo(b)fluoranthene	17.21	252	49391	0.061ug/ml	100
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	17.87.	252	25579	0.033ug/ml	90
23) Indeno(1,2,3-c,d)pyrene	20.82	276	24520	0.036ug/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)

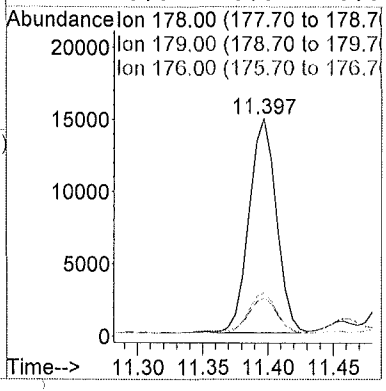
00774

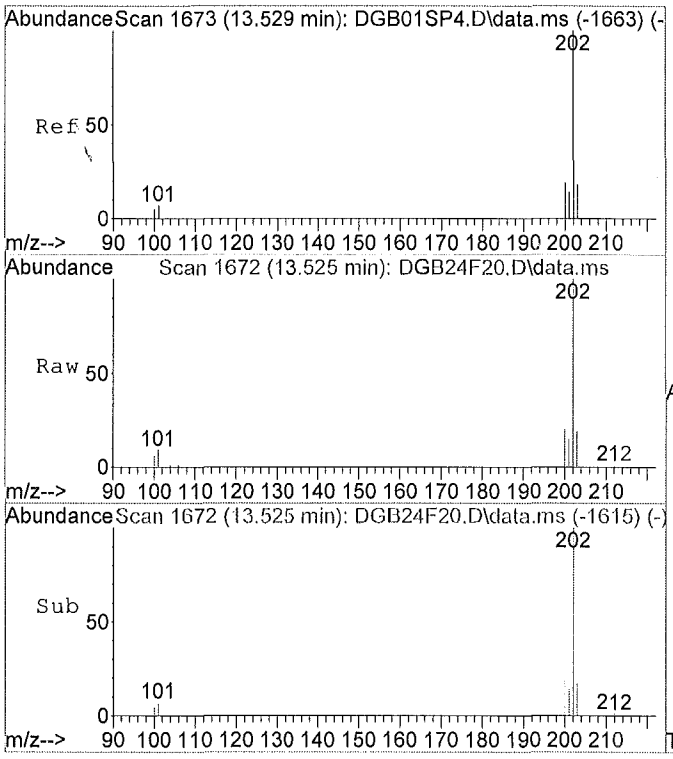


#11
Phenanthrene
Concen: 0.03 ug/ml
RT: 11.40 min Scan# 1274
Delta R.T. -0.01 min
Lab File: DGB24F20.D
Acq: 06/16/2015 01:59

Tgt Ion:178 Resp: 21732

Ion	Ratio	Lower	Upper
178	100		
179	17.9	11.1	20.5
176	19.4	14.1	26.1
0	0.0	0.0	0.0

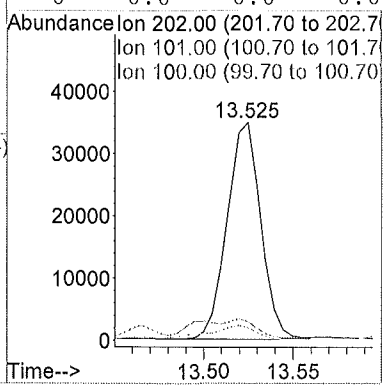




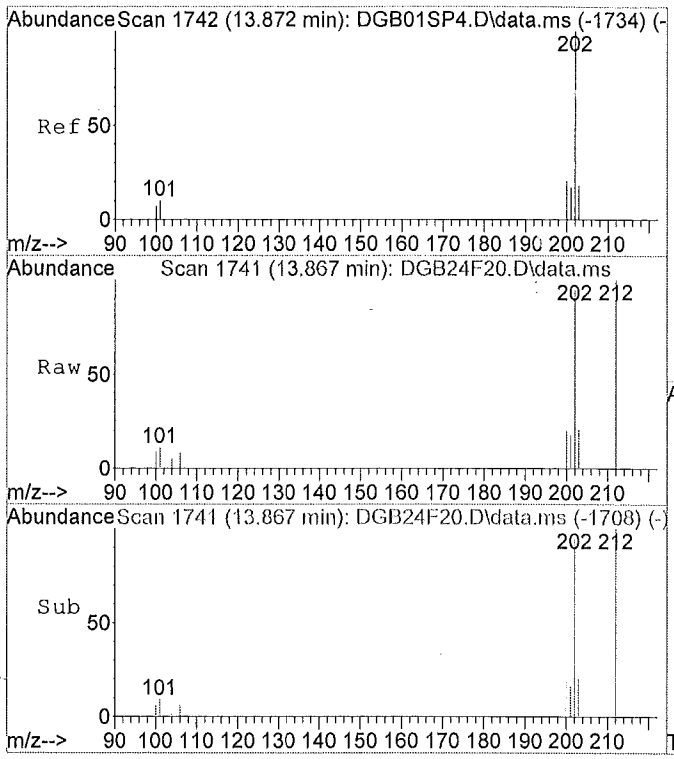
#14
Fluoranthene
Concen: 0.06 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DGB24F20.D
Acq: 06/16/2015 01:59

Tgt Ion:202 Resp: 45048

Ion	Ratio	Lower	Upper
202	100		
101	7.1	9.4	17.6#
100	9.2	0.0	0.0#
0	0.0	0.0	0.0



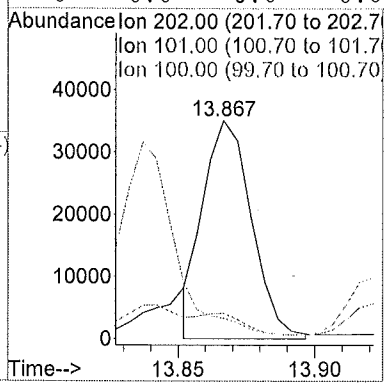
00775

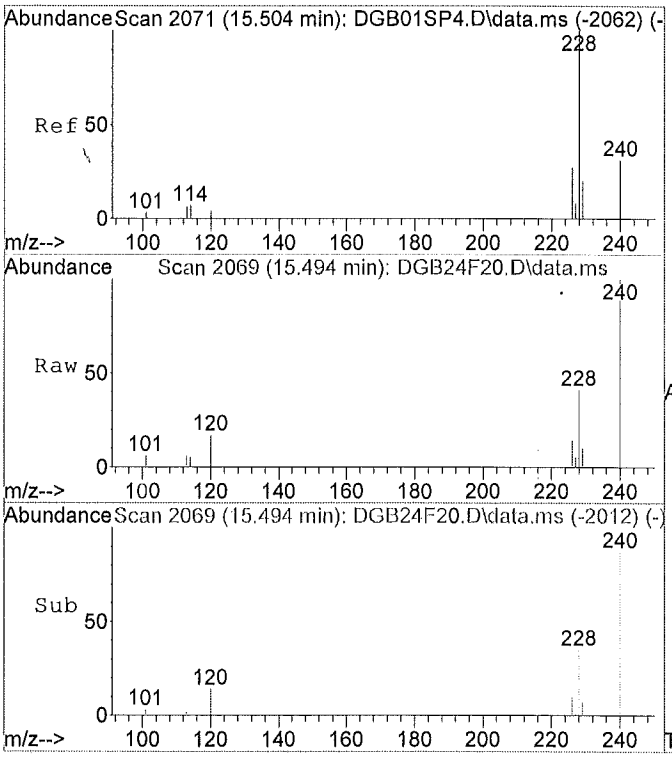


#16
Pyrene
Concen: 0.05 ug/ml m
RT: 13.87 min Scan# 1741
Delta R.T. -0.01 min
Lab File: DGB24F20.D
Acq: 06/16/2015 01:59

Tgt Ion:202 Resp: 43463

Ion	Ratio	Lower	Upper
202	100		
101	18.2	10.6	19.6
100	113.1	9.4	17.4#
0	0.0	0.0	0.0

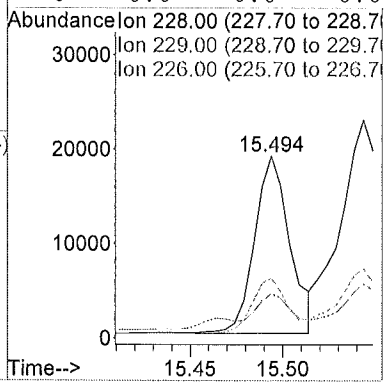


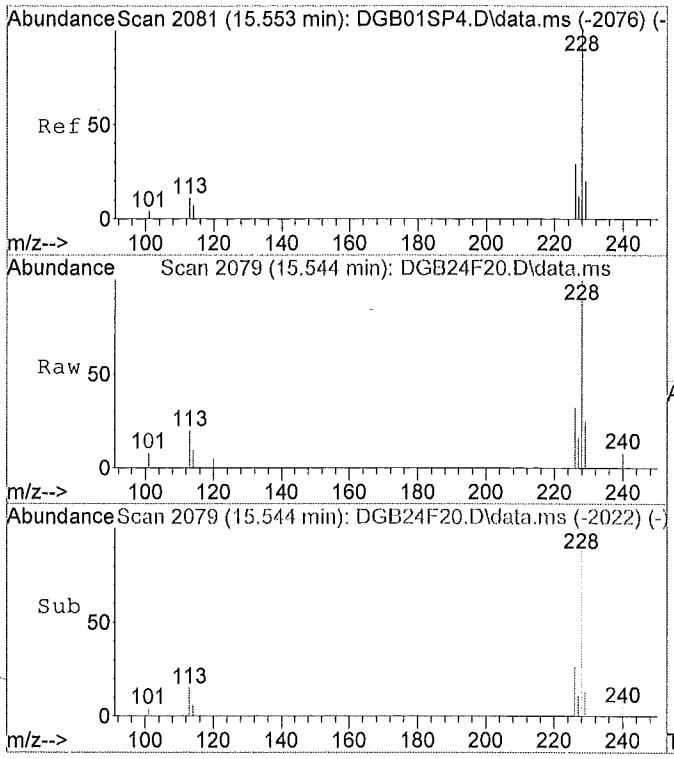


#17
Benzo(a)anthracene
Concen: 0.04 ug/ml
RT: 15.49 min Scan# 2069
Delta R.T. -0.01 min
Lab File: DGB24F20.D
Acq: 06/16/2015 01:59

Tgt Ion:228 Resp: 24888

Ion	Ratio	Lower	Upper
228	100		
229	19.4	14.5	26.9
226	31.8	18.5	34.3
0	0.0	0.0	0.0

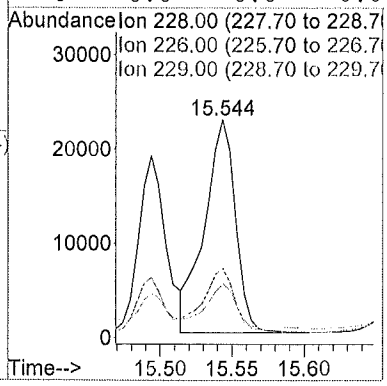


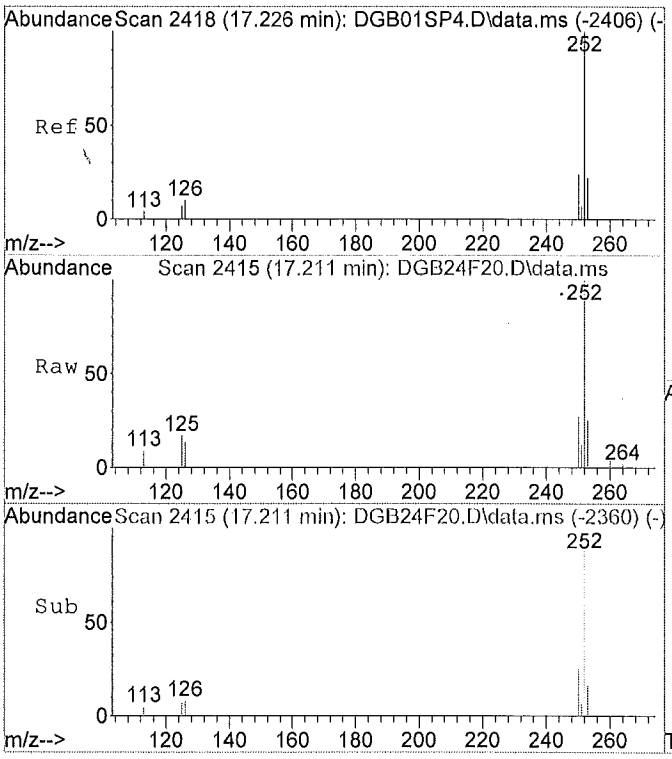


#18
Chrysene
Concen: 0.05 ug/ml
RT: 15.54 min Scan# 2079
Delta R.T. -0.01 min
Lab File: DGB24F20.D
Acq: 06/16/2015 01:59

Tgt Ion:228 Resp: 33920

Ion	Ratio	Lower	Upper
228	100		
226	31.0	19.7	36.7
229	19.4	14.5	26.9
0	0.0	0.0	0.0

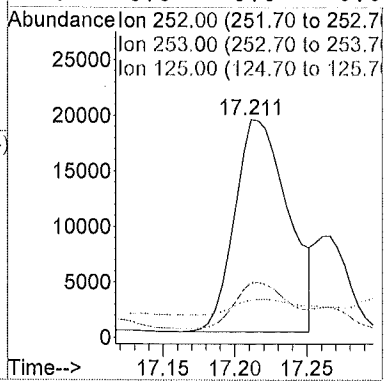


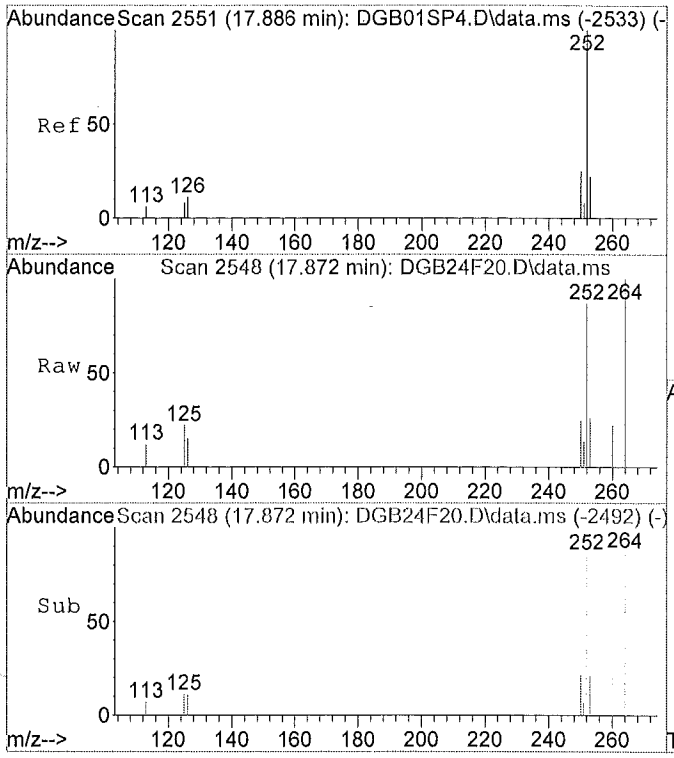


#20
Benzo(b)fluoranthene
Concen: 0.06 ug/ml
RT: 17.21 min Scan# 2415
Delta R.T. -0.02 min
Lab File: DGB24F20.D
Acq: 06/16/2015 01:59

Tgt Ion:252 Resp: 49391

Ion	Ratio	Lower	Upper
252	100		
253	21.9	15.3	28.3
125	13.5	0.0	0.0#
0	0.0	0.0	0.0

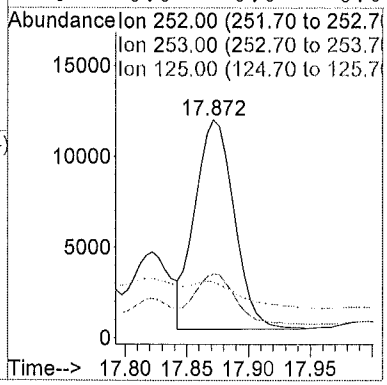


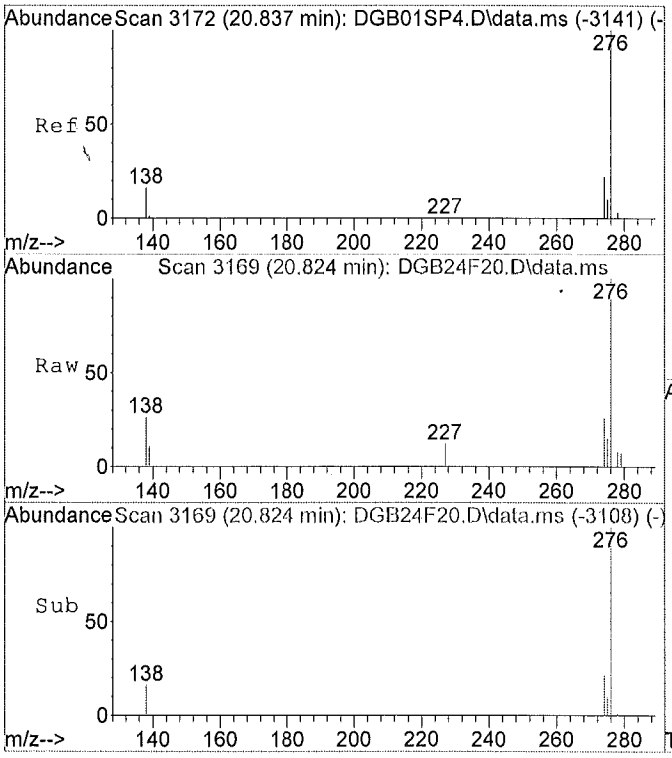


#22
Benzo(a)pyrene
Concen: 0.03 ug/ml
RT: 17.87 min Scan# 2548
Delta R.T. -0.02 min
Lab File: DGB24F20.D
Acq: 06/16/2015 01:59

Tgt Ion:252 Resp: 25579

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

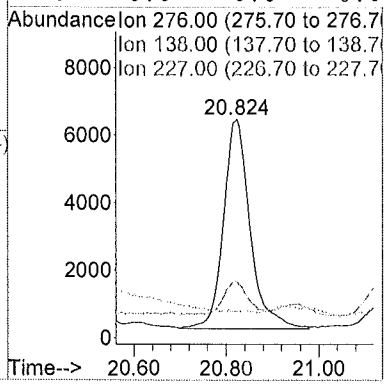




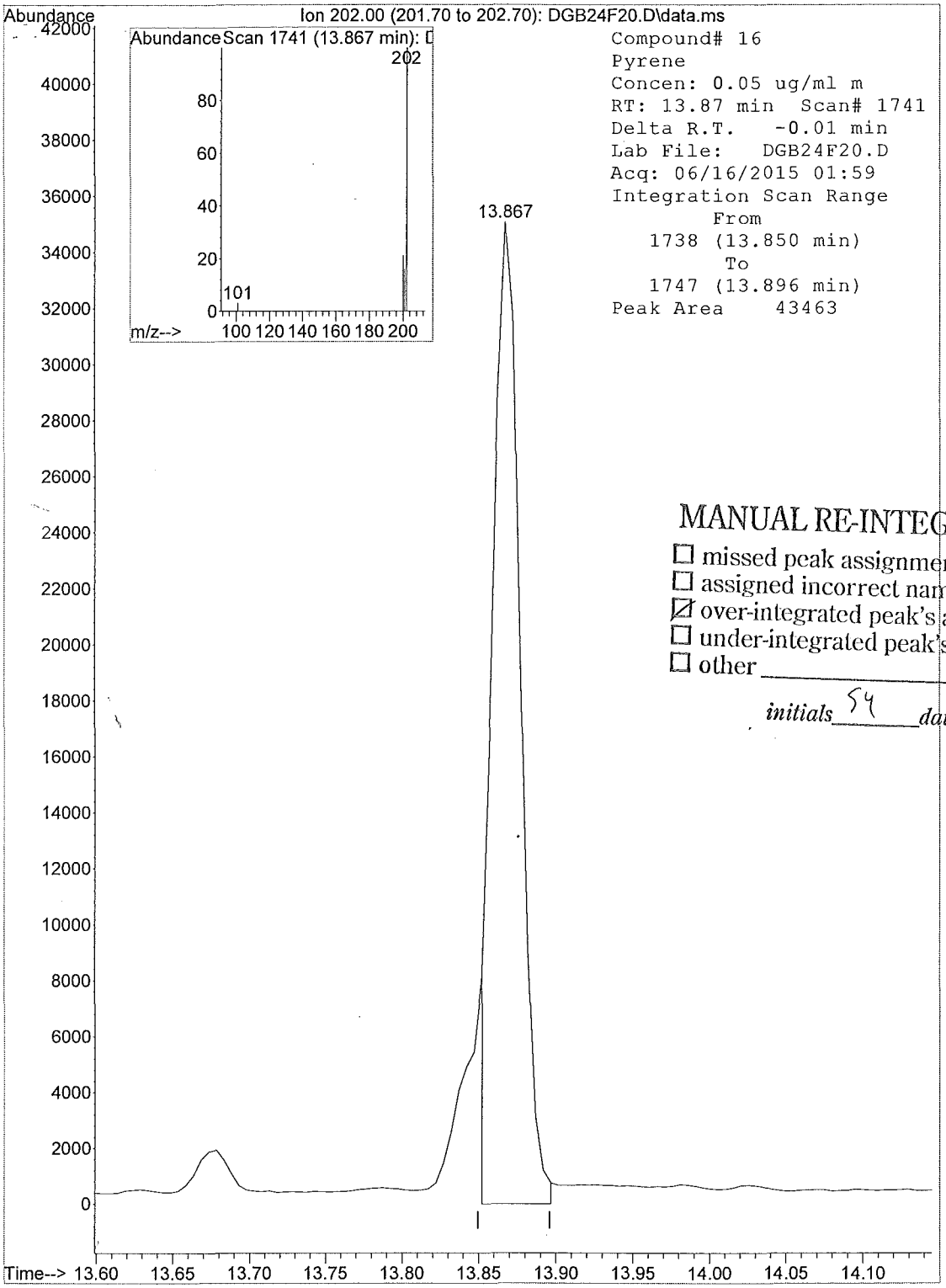
#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.04 ug/ml
RT: 20.82 min Scan# 3169
Delta R.T. -0.03 min
Lab File: DGB24F20.D
Acq: 06/16/2015 01:59

Tgt Ion:276 Resp: 24520

Ion	Ratio	Lower	Upper
276	100		
138	14.7	0.0	0.0#
227	0.0	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 Pyrene



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* 6/18/15

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M40

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542021

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DGB25F21

Extraction: (Type) SONC

% Moisture: 13. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 20.0

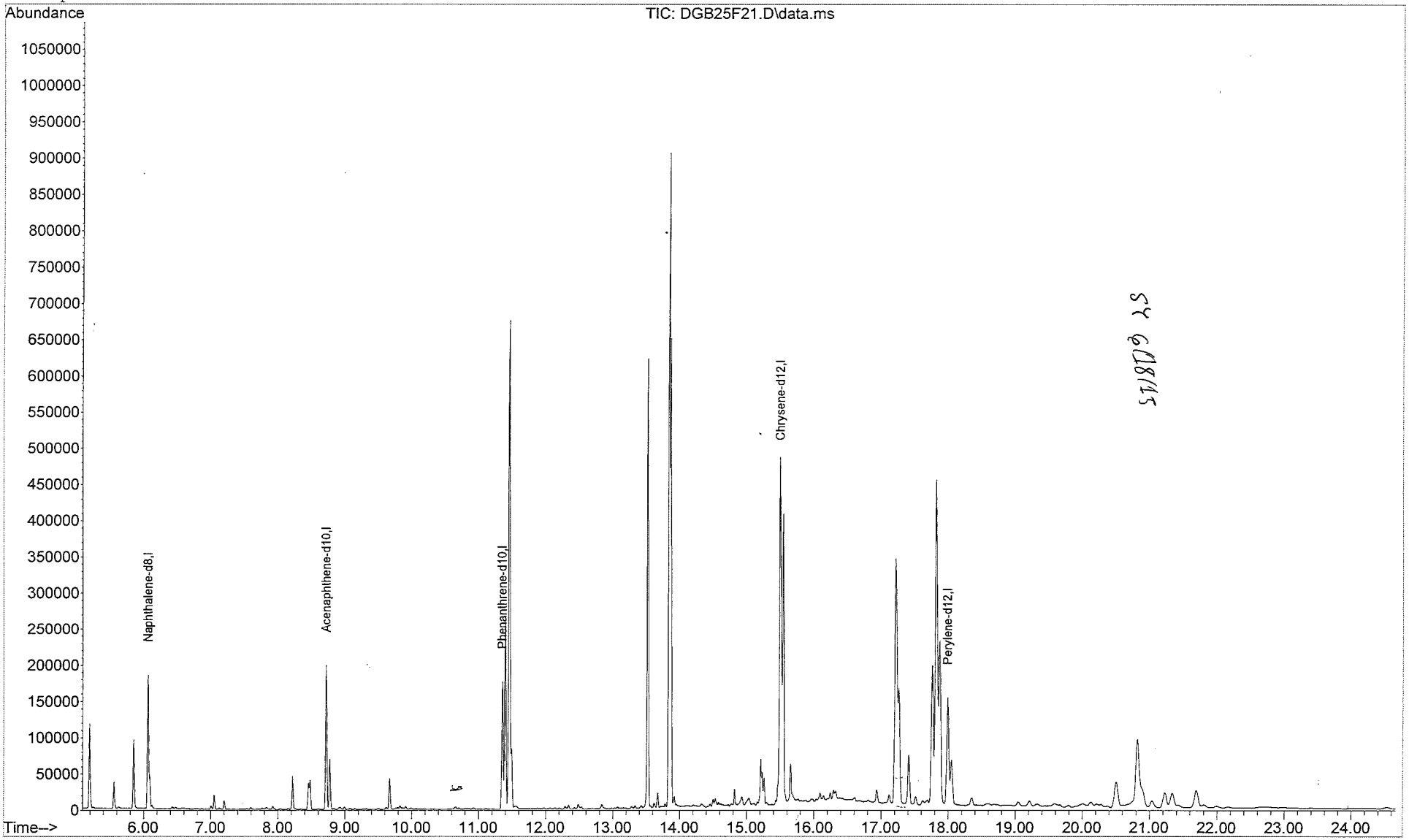
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	48.	J
91-57-6	2-Methylnaphthalene	21.	J
208-96-8	Acenaphthylene	48.	J
83-32-9	Acenaphthene	66.	J
86-73-7	Fluorene	41.	J
87-86-5	Pentachlorophenol	150	U
85-01-8	Phenanthrene	310	
120-12-7	Anthracene	100	
206-44-0	Fluoranthene	490	
129-00-0	Pyrene	420	
56-55-3	Benzo(a)anthracene	330	
218-01-9	Chrysene	310	
205-99-2	Benzo(b)fluoranthene	440	
207-08-9	Benzo(k)fluoranthene	130	
50-32-8	Benzo(a)pyrene	270	
193-39-5	Indeno(1,2,3-cd)pyrene	260	
53-70-3	Dibenzo(a,h)anthracene	57.	J
191-24-2	Benzo(g,h,i)perylene	60.	J

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB25F21.D Vial: 22
Acq On : 06/16/2015 02:28 Operator: SY
Sample : 1515542021 F9M40 (20) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 17 15:08:32 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\15JUN15\DGB25F21.D Vial: 22
Acq On : 06/16/2015 02:28 Operator: SY
Sample : 1515542021 F9M40 (20) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 17 15:08:32 2015 Results File: DSOM_SIMJ2.RES

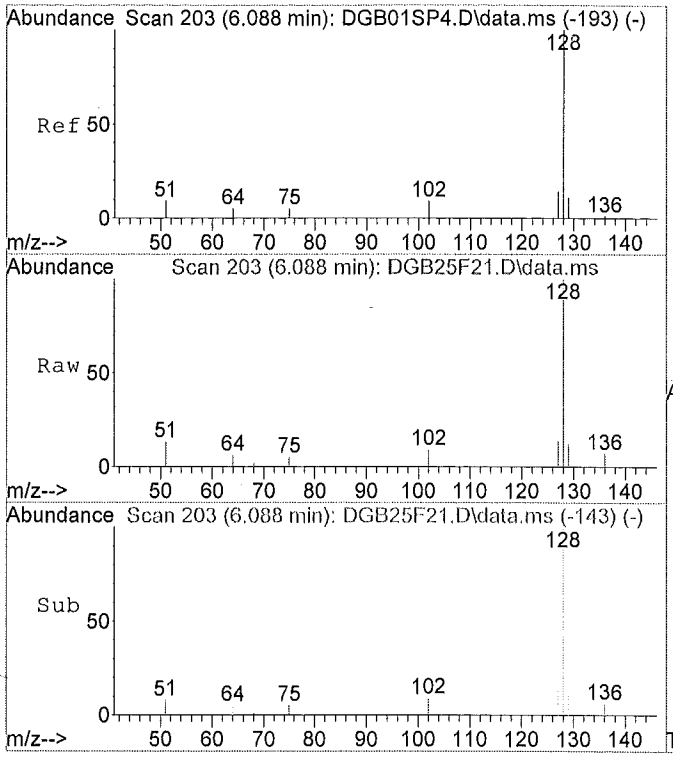
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.06	136	206775	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	133686	0.40 ug/ml	
9) Phenanthrene-d10	11.35	188	236964	0.40 ug/ml	
15) Chrysene-d12	15.51	240	265502	0.40 ug/ml	
19) Perylene-d12	17.99	264	257766	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	5353	0.016ug/mL	
13) Fluoranthene-d10	13.49	212	10975	0.017ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.09	128	34181	0.063ug/ml	94
4) 2-Methylnaphthalene	7.05	142	9631	0.028ug/ml	98
6) Acenaphthylene	8.48	152	37005	0.063ug/ml	96
7) Acenaphthene	8.77	153	32618	0.087ug/ml	99
8) Fluorene	9.67	166	23448	0.054ug/ml	98
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.40	178	283988	0.416ug/ml	98
12) Anthracene	11.49	178	88210	0.133ug/ml	94
14) Fluoranthene	13.52	202	504660	0.650ug/ml	87
16) Pyrene	13.87	202	458510	0.550ug/ml	91
17) Benzo(a)anthracene	15.49	228	310329	0.438ug/ml	94
18) Chrysene	15.54	228	310238	0.415ug/ml	96
20) Benzo(b)fluoranthene	17.22	252	473268	0.589ug/ml	99
21) Benzo(k)fluoranthene	17.26	252	142120	0.171ug/ml	98
22) Benzo(a)pyrene	17.87	252	272470	0.355ug/ml	96
23) Indeno(1,2,3-c,d)pyrene	20.82	276	229780	0.342ug/ml	100
24) Dibenzo(a,h)anthracene	20.89	278	55854	0.075ug/ml	89
25) Benzo(g,h,i)perylene	21.69	276	60235	0.080ug/ml	72

SY m 6/18/15

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

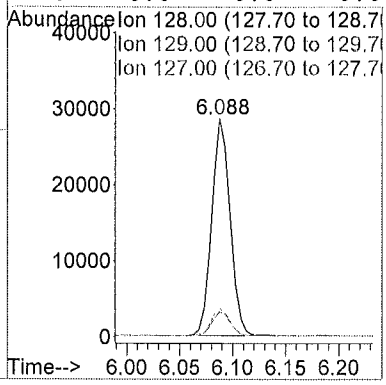
00792

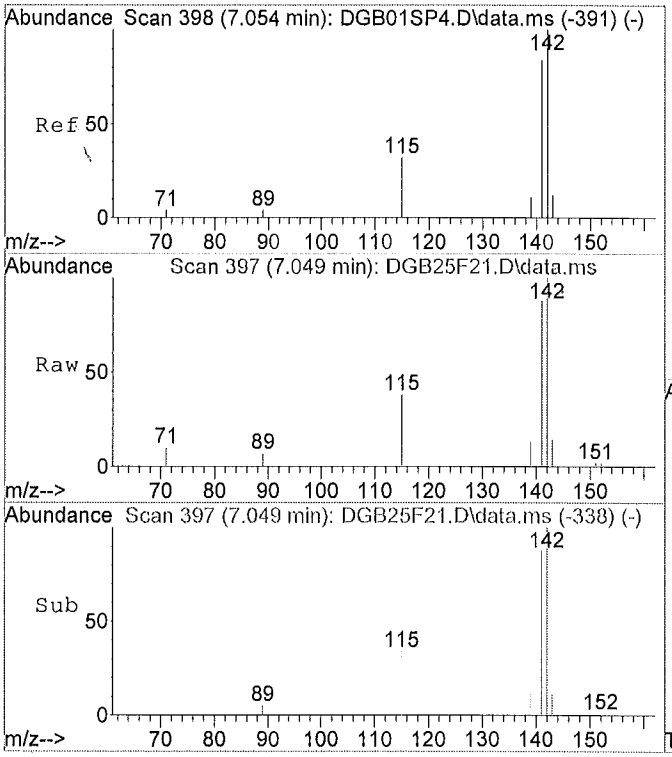


#2
Naphthalene
Concen: 0.06 ug/ml
RT: 6.09 min Scan# 203
Delta R.T. -0.00 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:128 Resp: 34181

Ion	Ratio	Lower	Upper
128	100		
129	11.0	0.0	0.0#
127	13.1	11.1	20.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

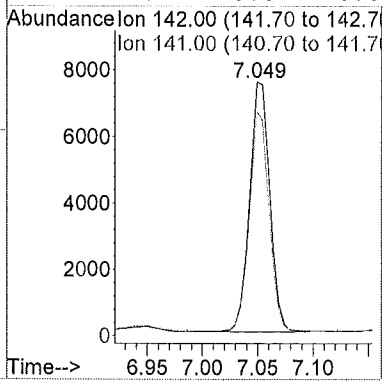




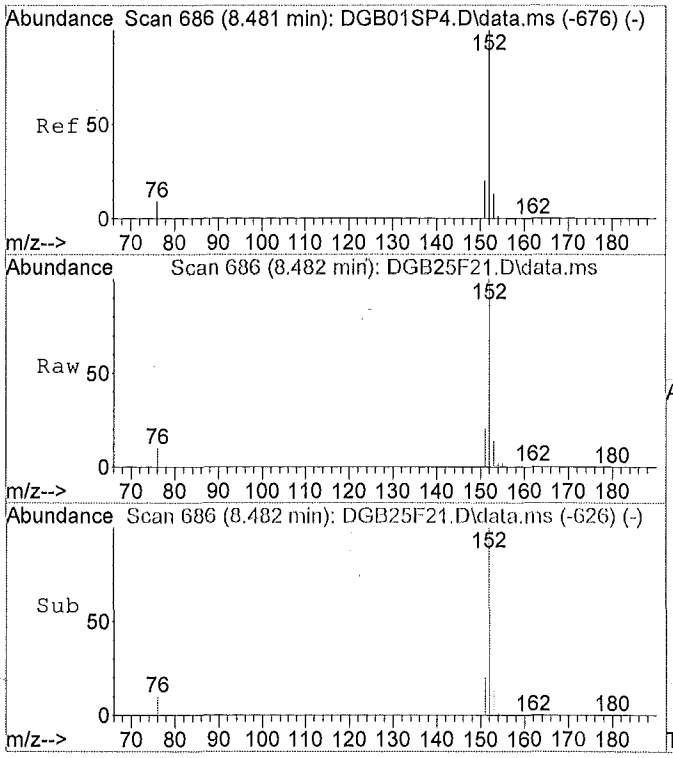
#4
2-Methylnaphthalene
Concen: 0.03 ug/ml
RT: 7.05 min Scan# 397
Delta R.T. -0.01 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:142 Resp: 9631

Ion	Ratio	Lower	Upper
142	100		
141	85.4	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0



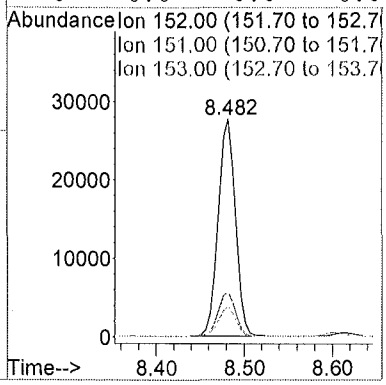
: 08783

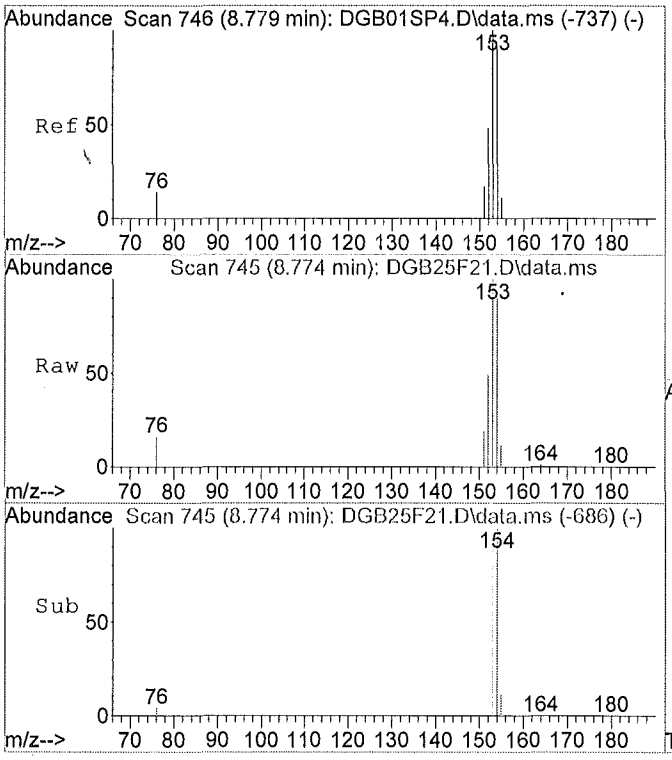


#6
Acenaphthylene
Concen: 0.06 ug/ml
RT: 8.48 min Scan# 686
Delta R.T. -0.00 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:152 Resp: 37005

Ion	Ratio	Lower	Upper
152	100		
151	20.3	15.5	28.7
153	14.0	8.8	16.4
0	0.0	0.0	0.0

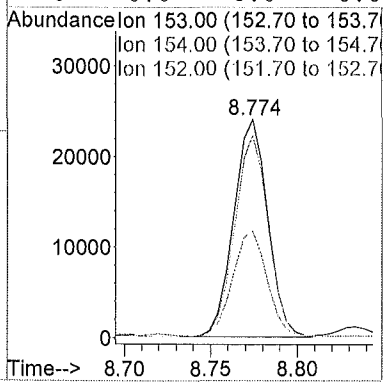


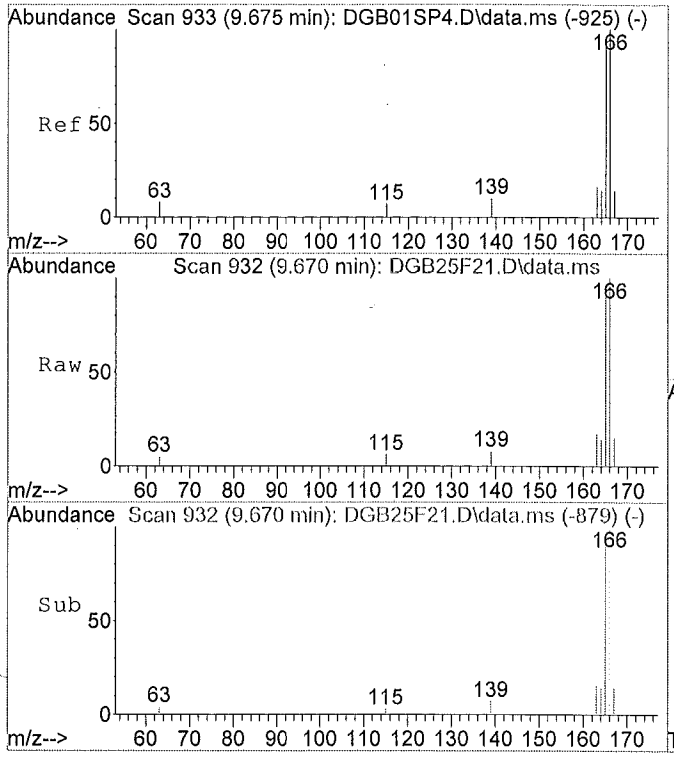


#7
Acenaphthene
Concen: 0.09 ug/ml
RT: 8.77 min Scan# 745
Delta R.T. -0.01 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:153 Resp: 32618

Ion	Ratio	Lower	Upper
153	100		
154	92.1	65.1	120.9
152	49.4	35.2	65.4
0	0.0	0.0	0.0

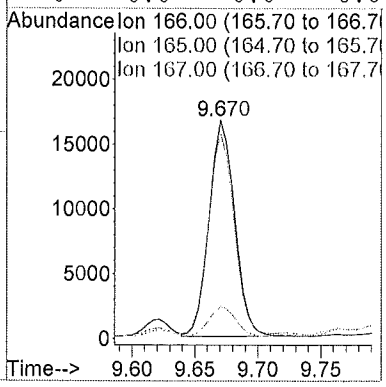


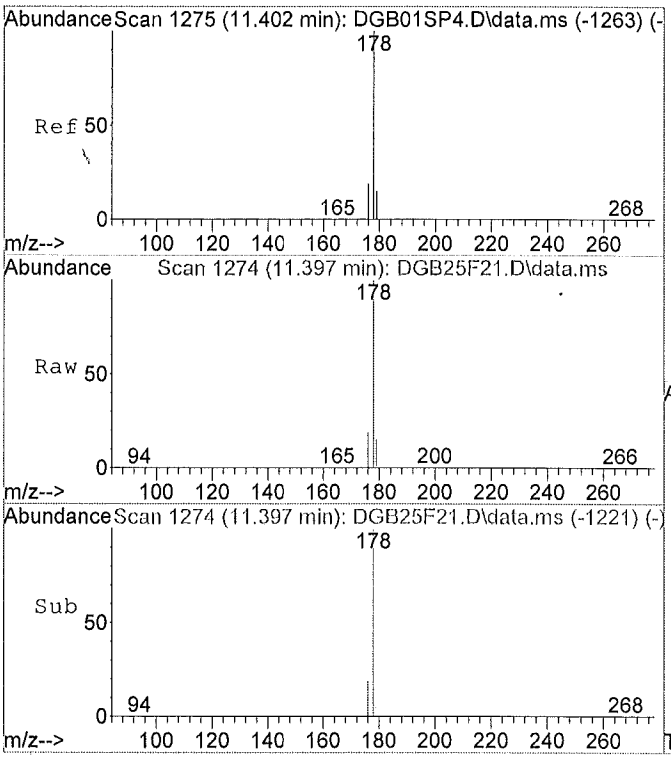


#8
Fluorene
Concen: 0.05 ug/ml
RT: 9.67 min Scan# 932
Delta R.T. -0.01 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:166 Resp: 23448

Ion	Ratio	Lower	Upper
166	100		
165	92.3	66.3	123.1
167	14.3	0.0	0.0#
0	0.0	0.0	0.0

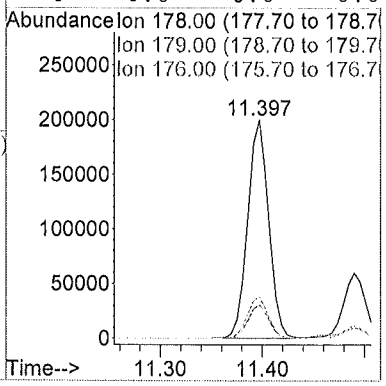




#11
Phenanthrene
Concen: 0.42 ug/ml
RT: 11.40 min Scan# 1274
Delta R.T. -0.01 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:178 Resp: 283988

Ion	Ratio	Lower	Upper
178	100		
179	15.4	11.1	20.5
176	19.1	14.1	26.1
0	0.0	0.0	0.0



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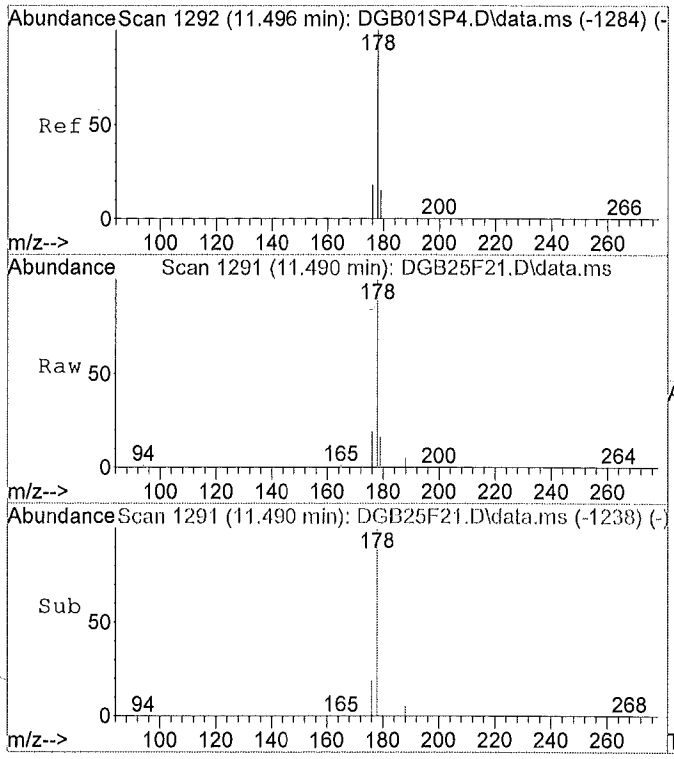
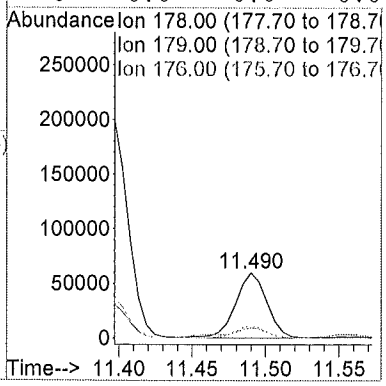
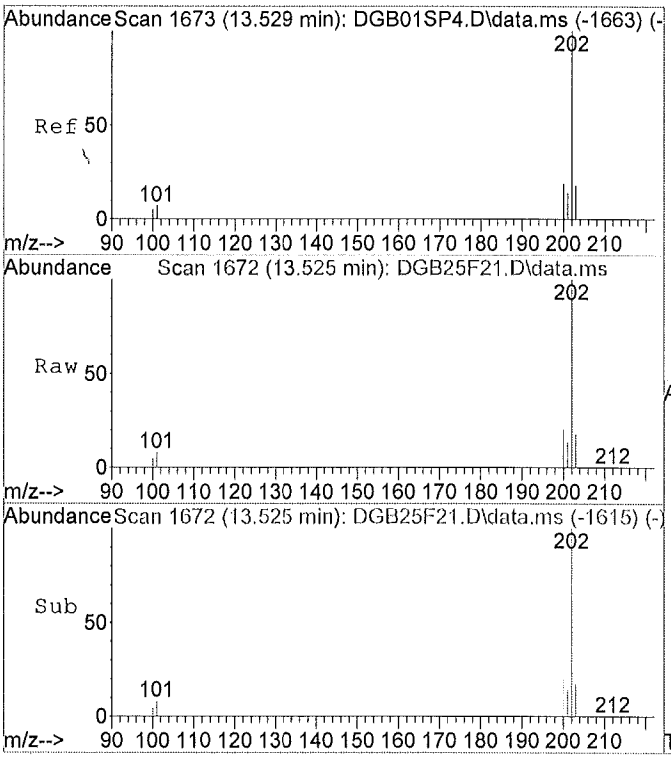


#12
Anthracene
Concen: 0.13 ug/ml
RT: 11.49 min Scan# 1291
Delta R.T. -0.01 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:178 Resp: 88210

Ion	Ratio	Lower	Upper
178	100		
179	20.3	11.6	21.6
176	18.1	13.9	25.7
0	0.0	0.0	0.0

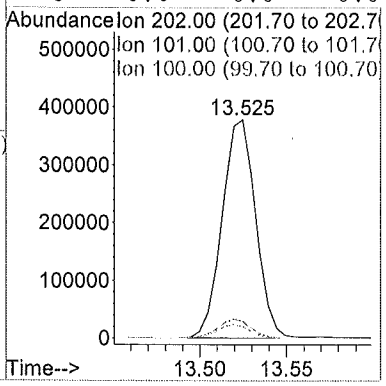


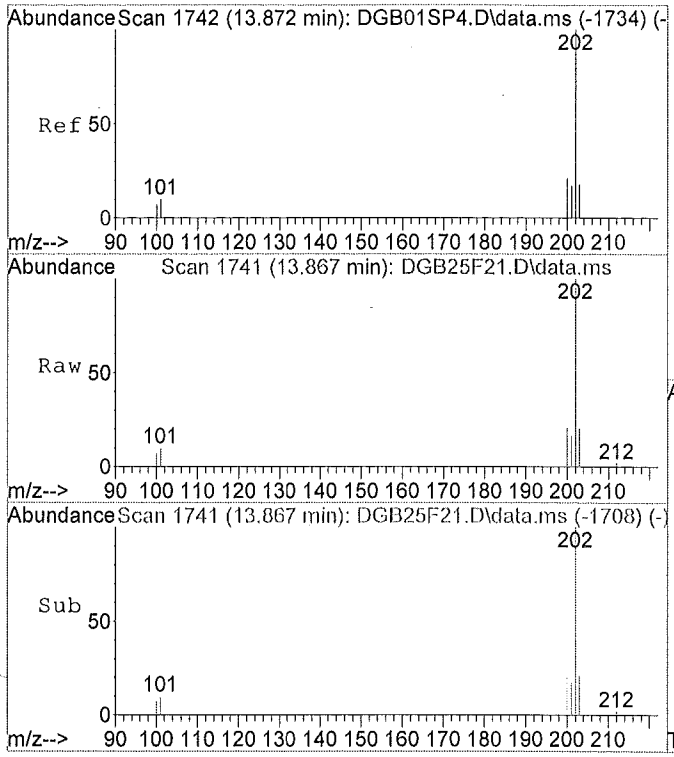


#14
Fluoranthene
Concen: 0.65 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:202 Resp: 504660

Ion	Ratio	Lower	Upper
202	100		
101	8.5	9.4	17.6#
100	6.2	0.0	0.0#
0	0.0	0.0	0.0

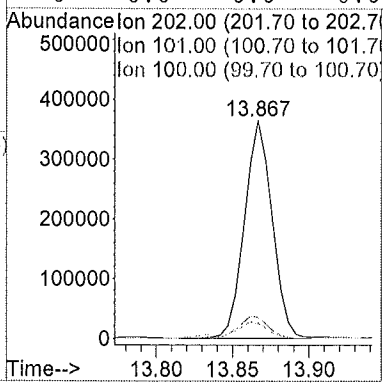


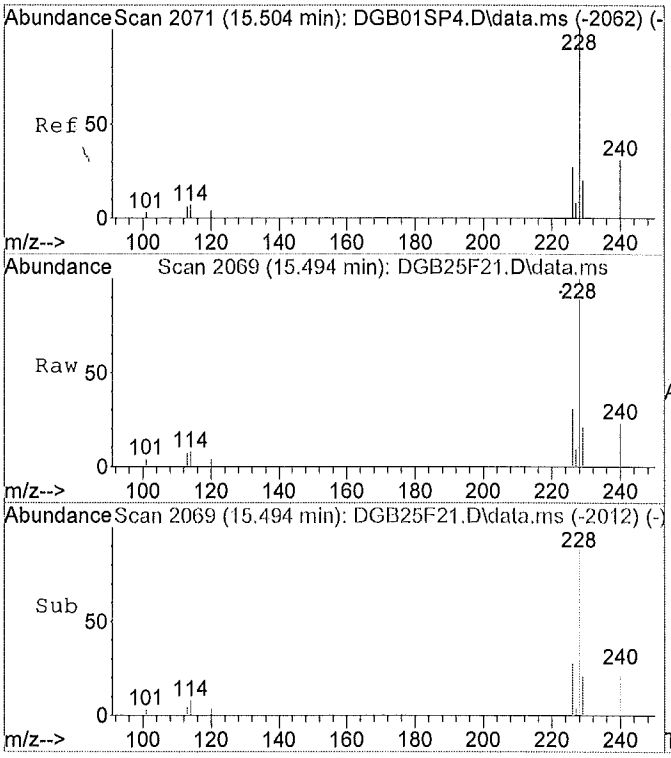


#16
Pyrene
Concen: 0.55 ug/ml
RT: 13.87 min Scan# 1741
Delta R.T. -0.01 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:202 Resp: 458510

Ion	Ratio	Lower	Upper
202	100		
101	11.0	10.6	19.6
100	10.0	9.4	17.4
0	0.0	0.0	0.0

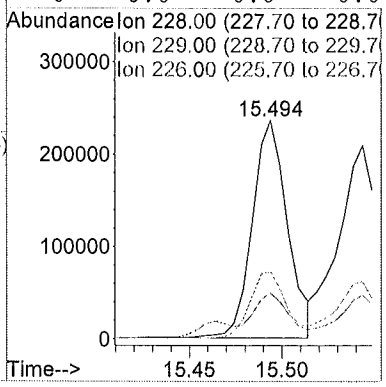




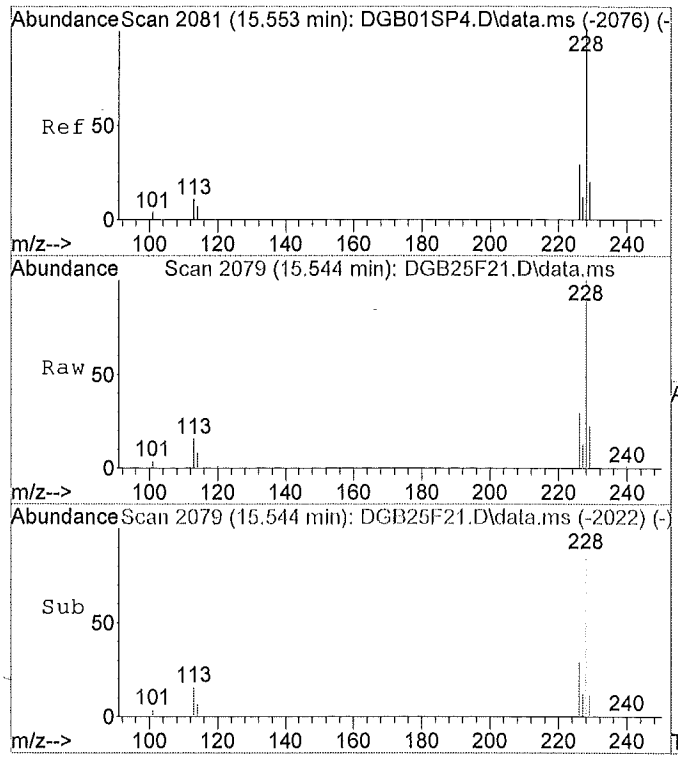
#17
Benzo(a)anthracene
Concen: 0.44 ug/ml
RT: 15.49 min Scan# 2069
Delta R.T. -0.01 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:228 Resp: 310329

Ion	Ratio	Lower	Upper
228	100		
229	20.0	14.5	26.9
226	31.7	18.5	34.3
0	0.0	0.0	0.0



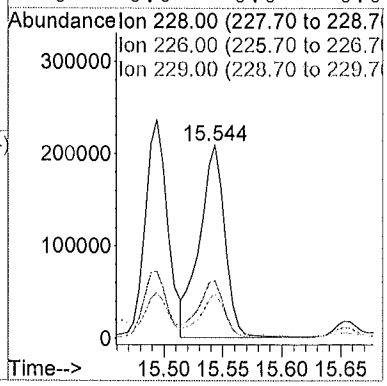
: 00797

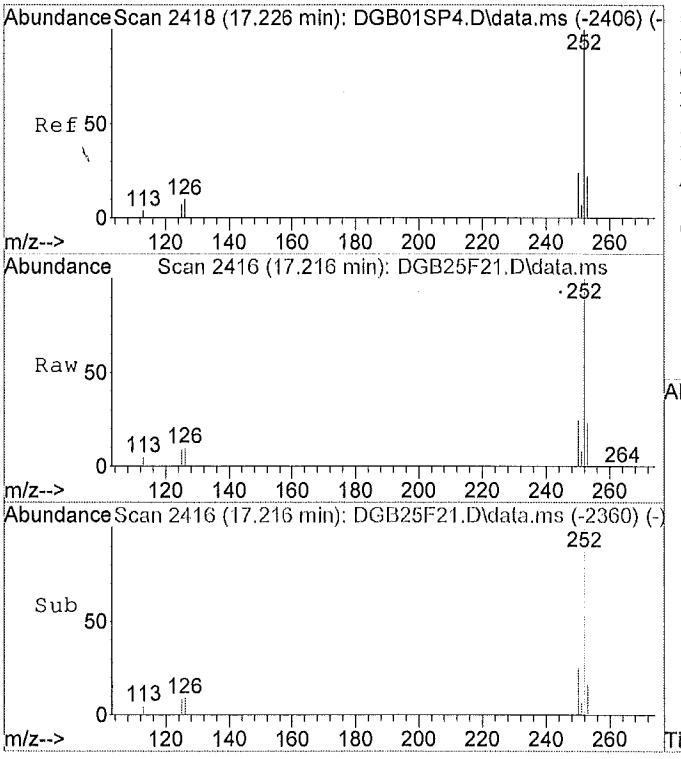


#18
Chrysene
Concen: 0.41 ug/ml
RT: 15.54 min Scan# 2079
Delta R.T. -0.01 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:228 Resp: 310238

Ion	Ratio	Lower	Upper
228	100		
226	30.6	19.7	36.7
229	22.4	14.5	26.9
0	0.0	0.0	0.0

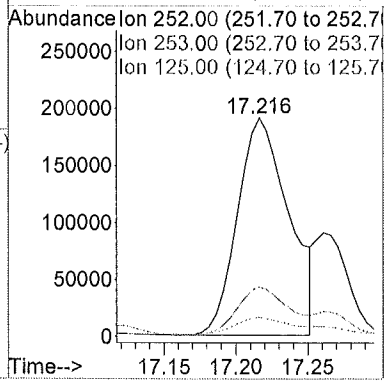




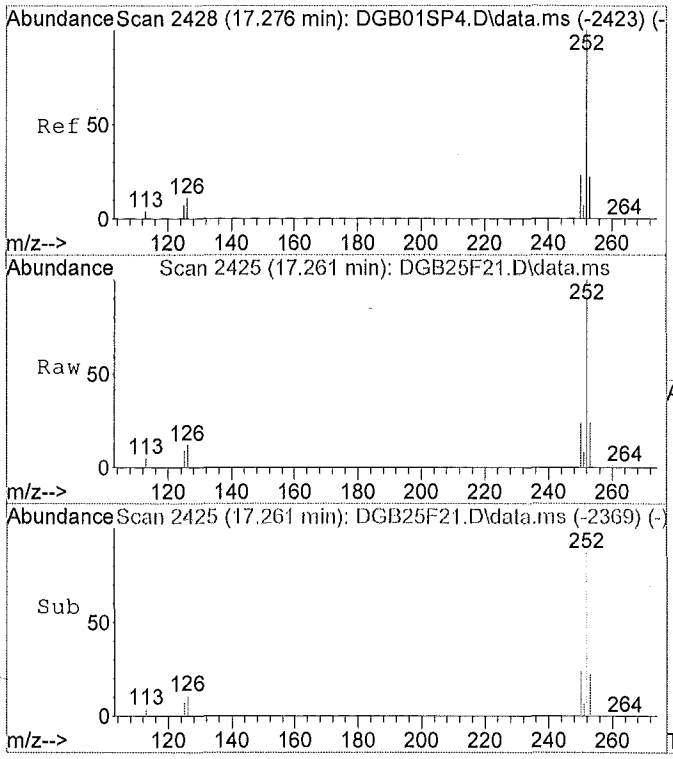
#20
Benzo(b)fluoranthene
Concen: 0.59 ug/ml
RT: 17.22 min Scan# 2416
Delta R.T. -0.01 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:252 Resp: 473268

Ion	Ratio	Lower	Upper
252	100		
253	22.2	15.3	28.3
125	10.9	0.0	0.0#
0	0.0	0.0	0.0



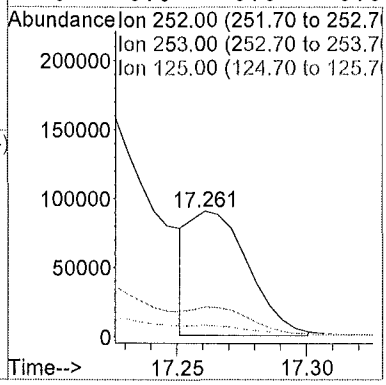
00788

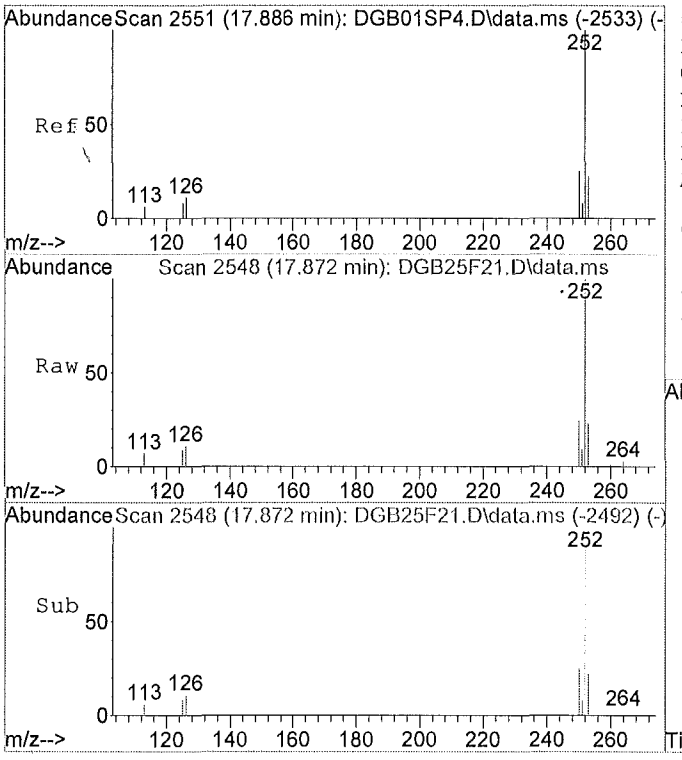


#21
Benzo(k)fluoranthene
Concen: 0.17 ug/ml m
RT: 17.26 min Scan# 2425
Delta R.T. -0.02 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:252 Resp: 142120

Ion	Ratio	Lower	Upper
252	100		
253	73.8	15.0	27.8#
125	36.4	0.0	0.0#
0	0.0	0.0	0.0

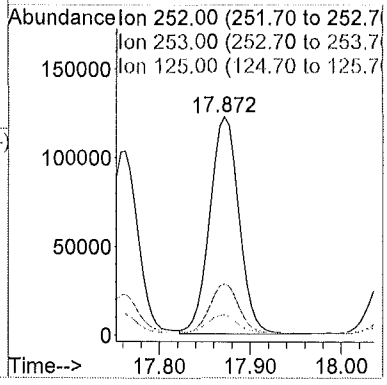


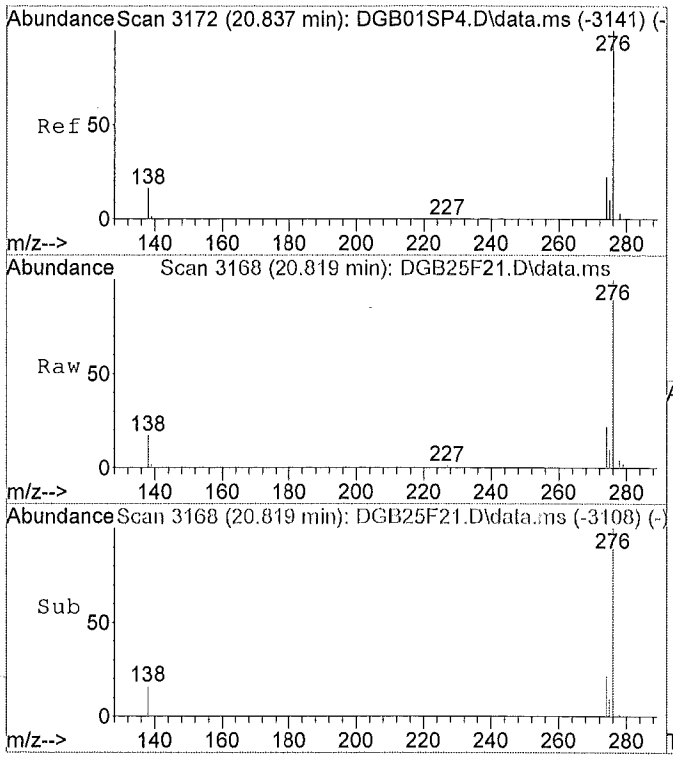


#22
Benzo(a)pyrene
Concen: 0.35 ug/ml
RT: 17.87 min Scan# 2548
Delta R.T. -0.02 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:252 Resp: 272470

Ion	Ratio	Lower	Upper
252	100		
253	23.3	15.0	27.8
125	8.6	0.0	0.0#
0	0.0	0.0	0.0

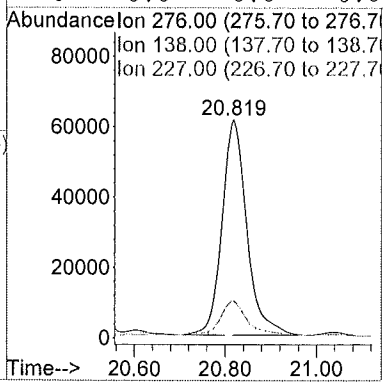


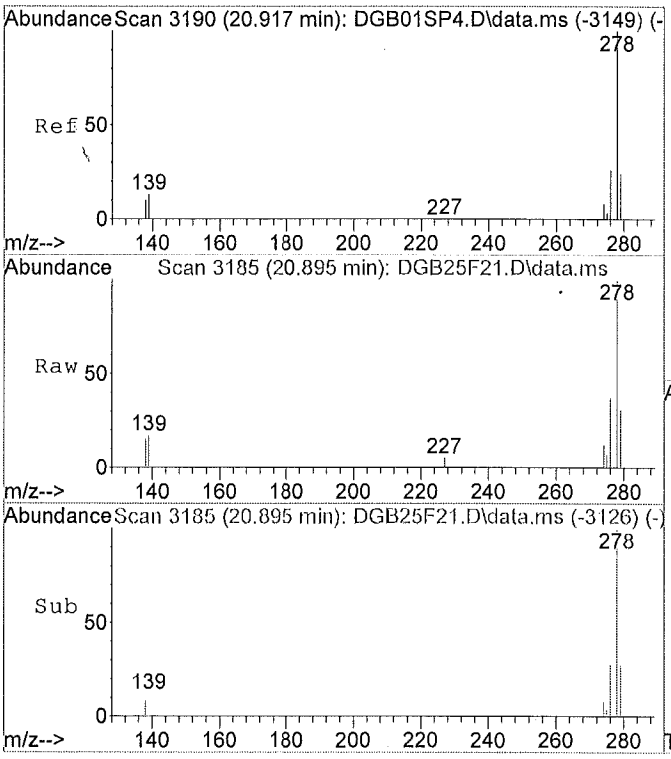


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.34 ug/ml
RT: 20.82 min Scan# 3168
Delta R.T. -0.03 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:276 Resp: 229780

Ion	Ratio	Lower	Upper
276	100		
138	18.3	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

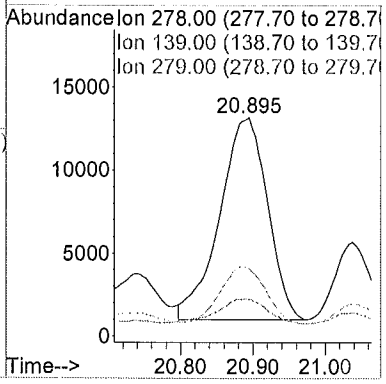


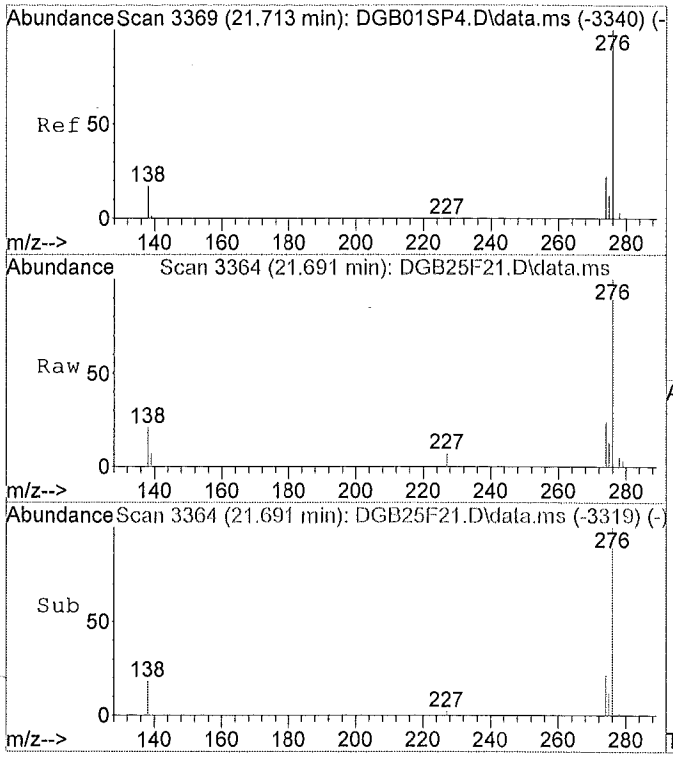


#24
Dibenzo(a,h)anthracene
Concen: 0.08 ug/ml
RT: 20.89 min Scan# 3185
Delta R.T. -0.04 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:278 Resp: 55854

Ion	Ratio	Lower	Upper
278	100		
139	12.7	0.0	0.0#
279	27.7	15.8	29.3
0	0.0	0.0	0.0

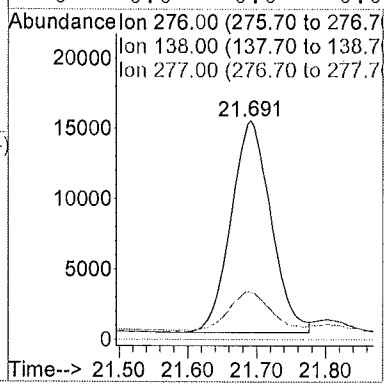




#25
Benzo(g,h,i)perylene
Concen: 0.08 ug/ml
RT: 21.69 min Scan# 3364
Delta R.T. -0.03 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

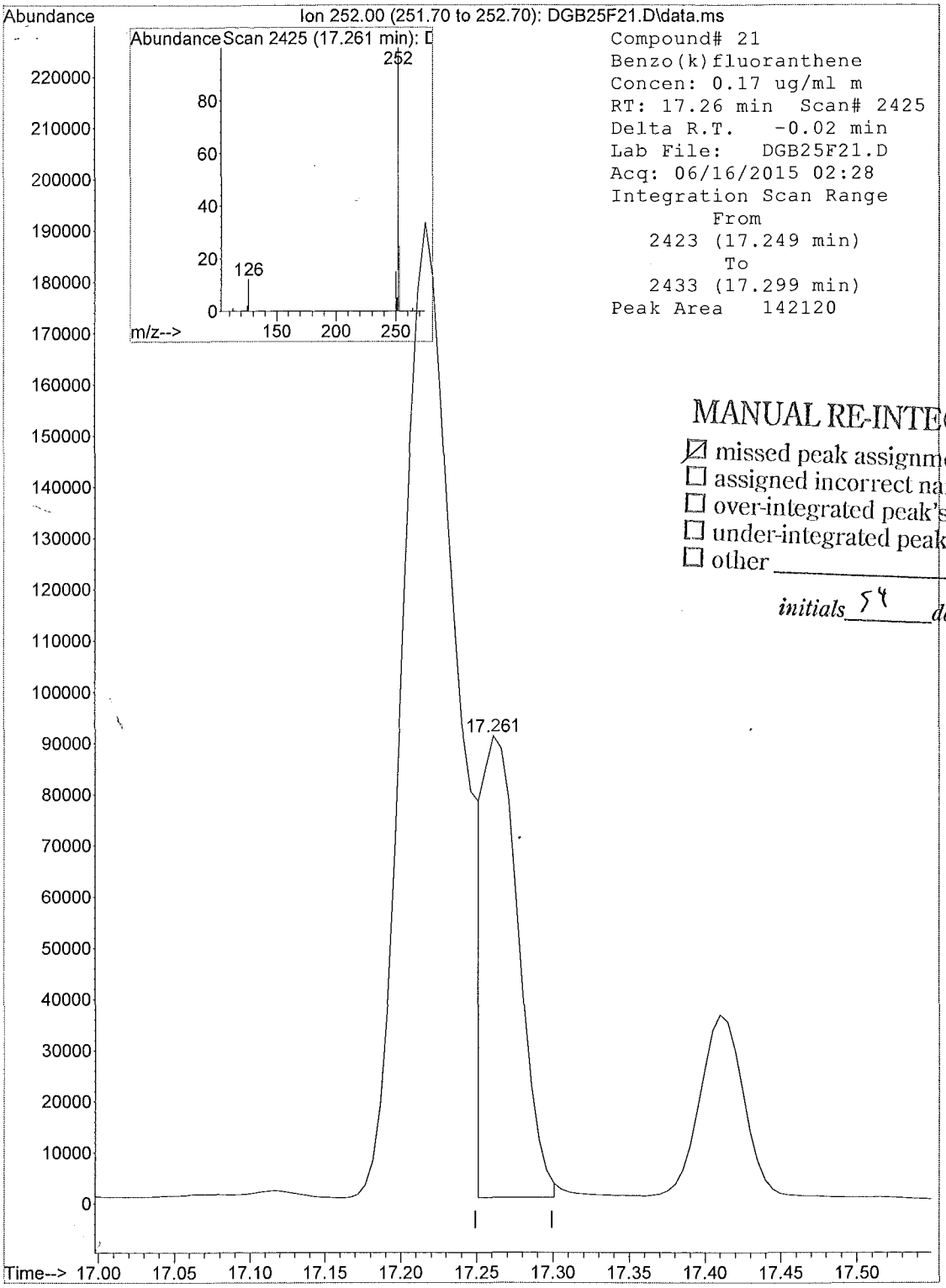
Tgt Ion:276 Resp: 60235

Ion	Ratio	Lower	Upper
276	100		
138	19.1	16.2	30.0
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



: 00791

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* 6/18/15

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M41

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542022

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DGB26F22

Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2015

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 5.0

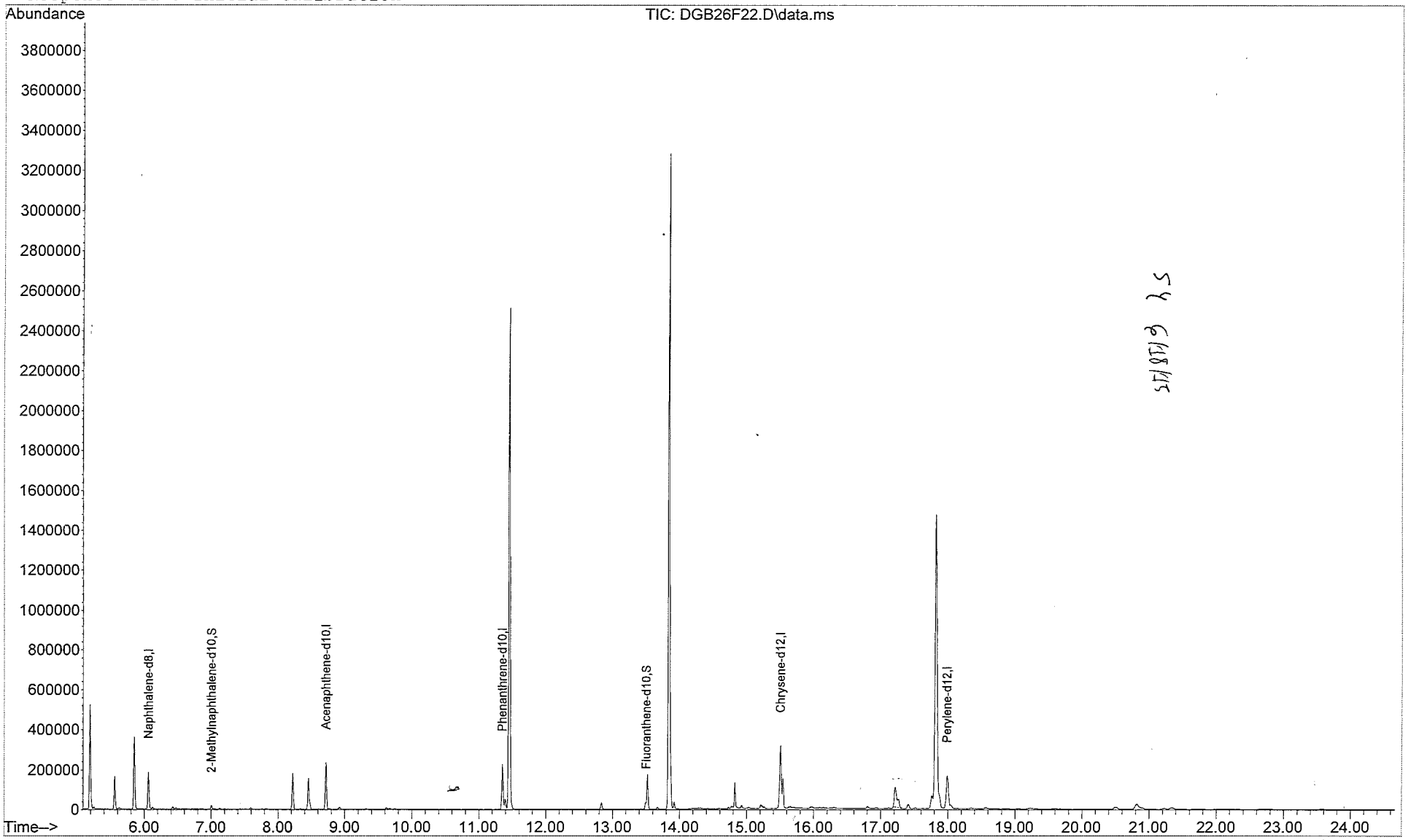
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	19.	U
91-57-6	2-Methylnaphthalene	19.	U
208-96-8	Acenaphthylene	6.5	J
83-32-9	Acenaphthene	19.	U
86-73-7	Fluorene	19.	U
87-86-5	Pentachlorophenol	39.	U
85-01-8	Phenanthrene	12.	J
120-12-7	Anthracene	5.5	J
206-44-0	Fluoranthene	27.	
129-00-0	Pyrene	29.	
56-55-3	Benzo(a)anthracene	20.	
218-01-9	Chrysene	22.	
205-99-2	Benzo(b)fluoranthene	30.	
207-08-9	Benzo(k)fluoranthene	8.4	J
50-32-8	Benzo(a)pyrene	14.	J
193-39-5	Indeno(1,2,3-cd)pyrene	16.	J
53-70-3	Dibenzo(a,h)anthracene	19.	U
191-24-2	Benzo(g,h,i)perylene	19.	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB26F22.D Vial: 23
Acq On : 06/16/2015 02:58 Operator: SY
Sample : 1515542022 F9M41 (5) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 17 15:09:13 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

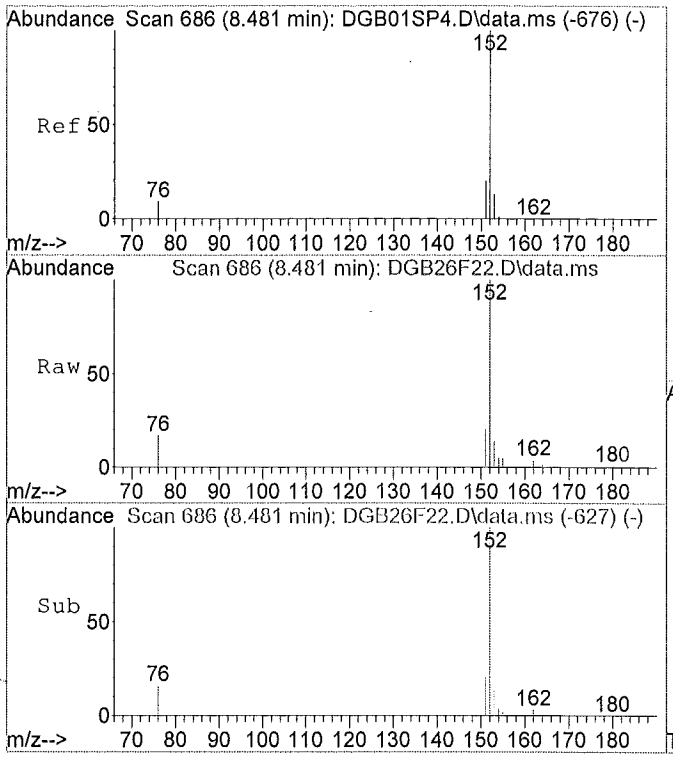
Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB26F22.D Vial: 23
Acq On : 06/16/2015 02:58 Operator: SY
Sample : 1515542022 F9M41 (5) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 17 15:09:13 2015 Results File: DSOM_SIMJ2.RES

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	6.06	136	213497	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	155473	0.40 ug/ml	
9) Phenanthrene-d10	11.35	188	308791	0.40 ug/ml	
15) Chrysene-d12	15.51	240	319966	0.40 ug/ml	
19) Perylene-d12	17.99	264	311473	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	22100	0.064ug/mL	
13) Fluoranthene-d10	13.49	212	38673	0.046ug/mL	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	8.48	152	22626	0.033ug/ml	94
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.40	178	55272	0.062ug/ml	99
12) Anthracene	11.49	178	24213	0.028ug/ml	96
14) Fluoranthene	13.52	202	137820	0.136ug/ml	89
16) Pyrene	13.87	202	148259	0.148ug/ml	73
17) Benzo(a)anthracene	15.49	228	86326	0.101ug/ml	86
18) Chrysene	15.54	228	100961	0.112ug/ml	96
20) Benzo(b)fluoranthene	17.22	252	147720	0.152ug/ml	99
21) Benzo(k)fluoranthene	17.26	252	43580	0.043ug/ml	99
22) Benzo(a)pyrene	17.87	252	68114	0.073ug/ml	95
23) Indeno(1,2,3-c,d)pyrene	20.82	276	67289	0.083ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	0.00	276		Not Detected	

SY 6/18/15

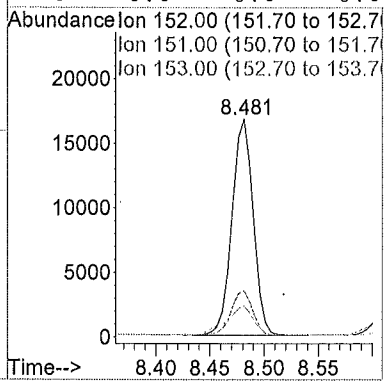
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

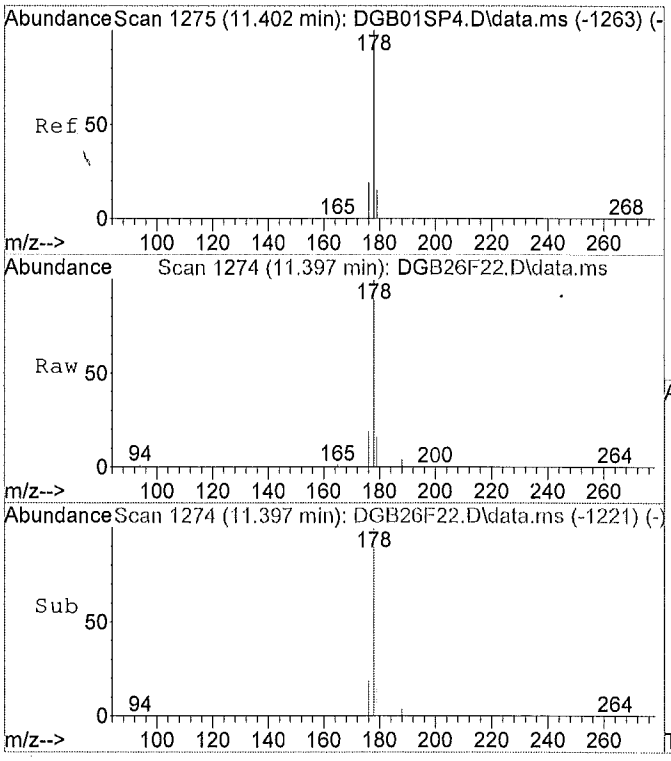


#6
Acenaphthylene
Concen: 0.03 ug/ml
RT: 8.48 min Scan# 686
Delta R.T. -0.00 min
Lab File: DGB26F22.D
Acq: 06/16/2015 02:58

Tgt Ion:152 Resp: 22626

Ion	Ratio	Lower	Upper
152	100		
151	20.7	15.5	28.7
153	17.4	8.8	16.4#
0	0.0	0.0	0.0

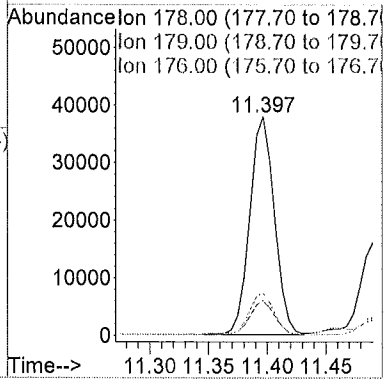




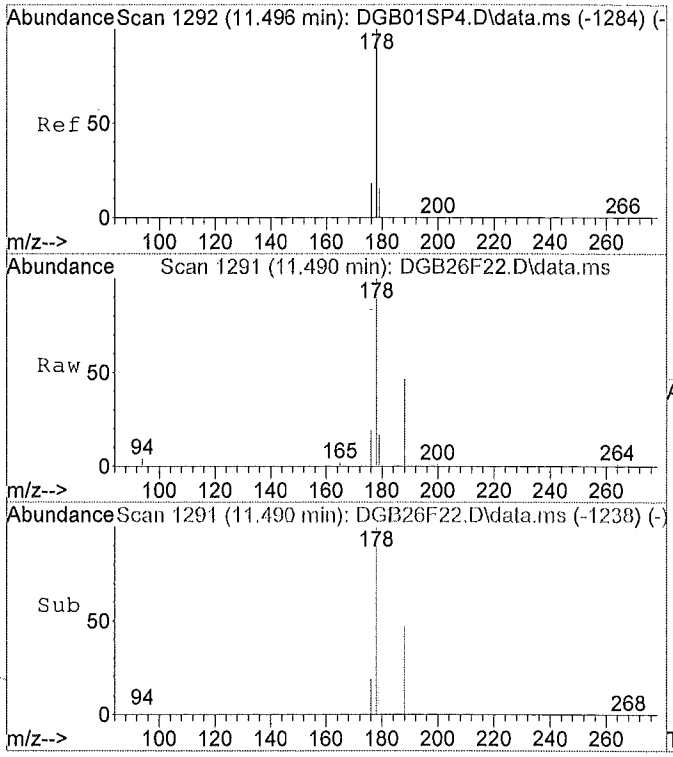
#11
Phenanthrene
Concen: 0.06 ug/ml
RT: 11.40 min Scan# 1274
Delta R.T. -0.01 min
Lab File: DGB26F22.D
Acq: 06/16/2015 02:58

Tgt Ion:178 Resp: 55272

Ion	Ratio	Lower	Upper
178	100		
179	16.1	11.1	20.5
176	19.4	14.1	26.1
0	0.0	0.0	0.0



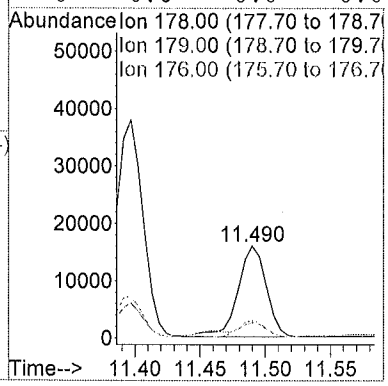
00796

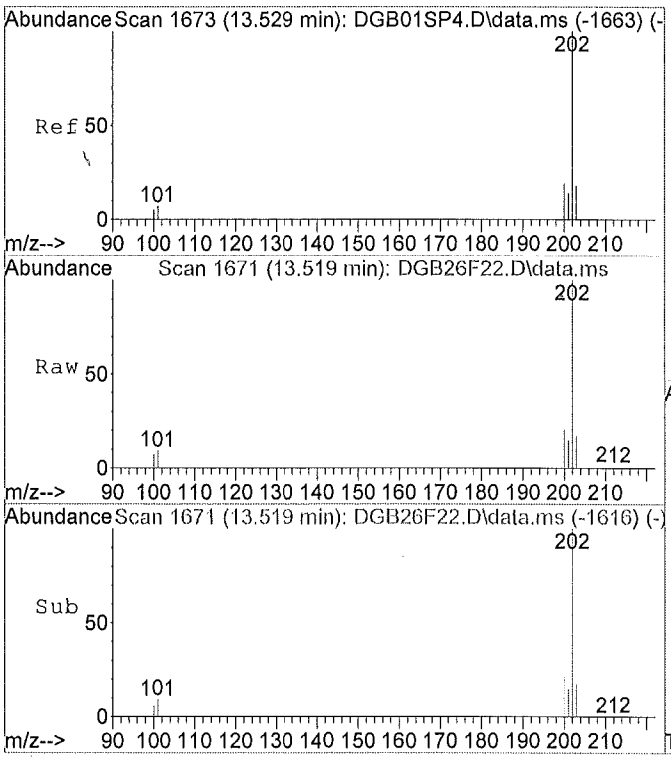


#12
Anthracene
Concen: 0.03 ug/ml
RT: 11.49 min Scan# 1291
Delta R.T. -0.01 min
Lab File: DGB26F22.D
Acq: 06/16/2015 02:58

Tgt Ion:178 Resp: 24213

Ion	Ratio	Lower	Upper
178	100		
179	14.4	11.6	21.6
176	18.6	13.9	25.7
0	0.0	0.0	0.0

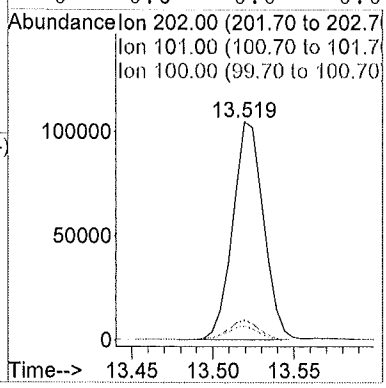


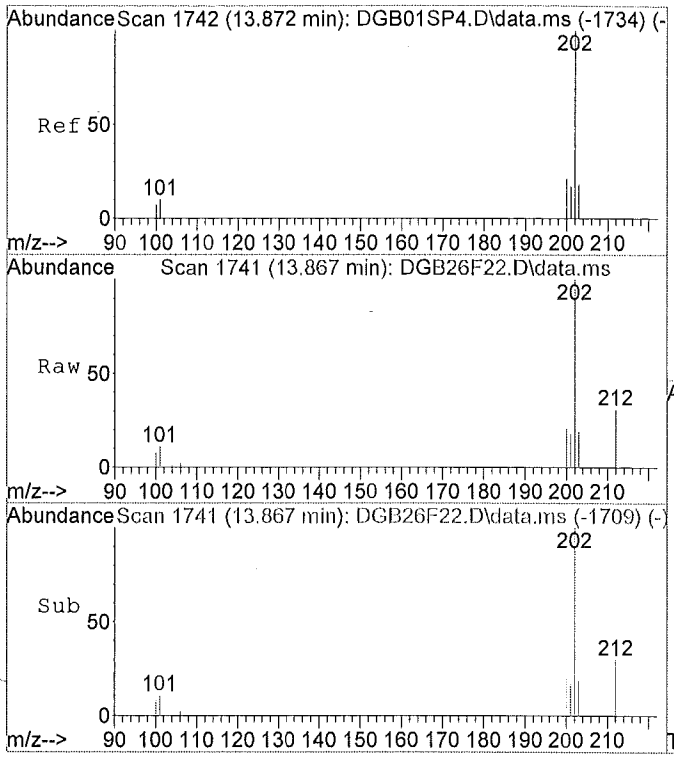


#14
Fluoranthene
Concen: 0.14 ug/ml
RT: 13.52 min Scan# 1671
Delta R.T. -0.01 min
Lab File: DGB26F22.D
Acq: 06/16/2015 02:58

Tgt Ion:202 Resp: 137820

Ion	Ratio	Lower	Upper
202	100		
101	9.1	9.4	17.6#
100	6.8	0.0	0.0#
0	0.0	0.0	0.0

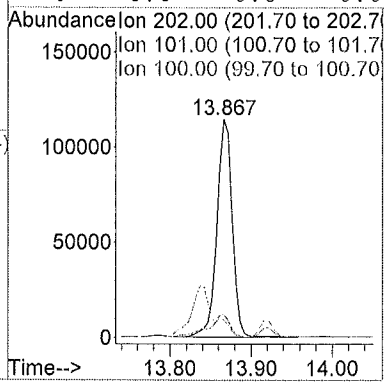


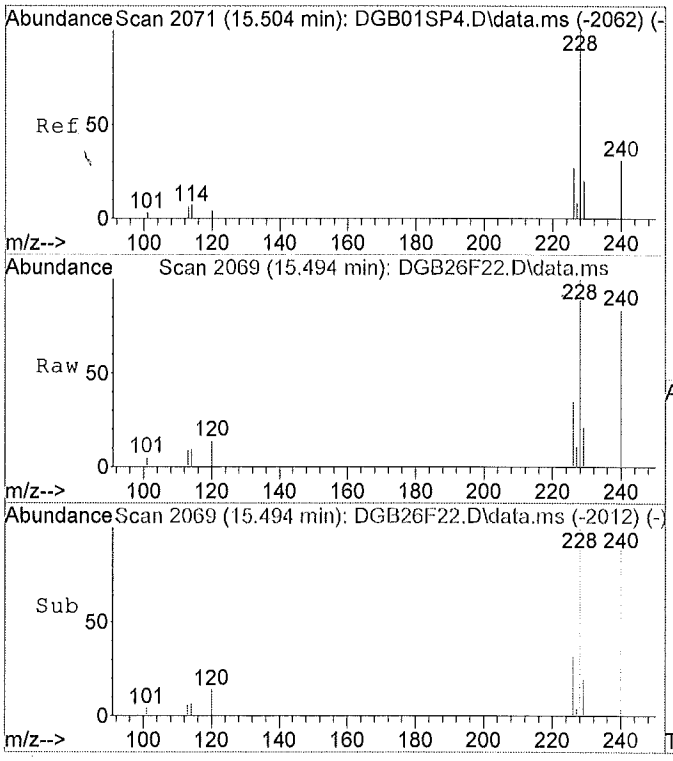


#16
Pyrene
Concen: 0.15 ug/ml
RT: 13.87 min Scan# 1741
Delta R.T. -0.01 min
Lab File: DGB26F22.D
Acq: 06/16/2015 02:58

Tgt Ion:202 Resp: 148259

Ion	Ratio	Lower	Upper
202	100		
101	14.9	10.6	19.6
100	35.9	9.4	17.4#
0	0.0	0.0	0.0

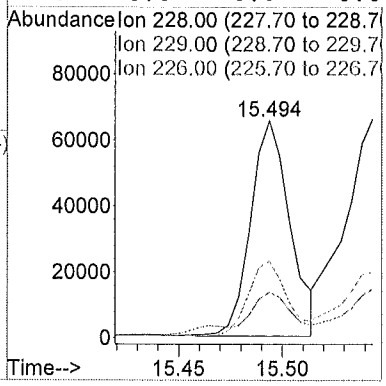


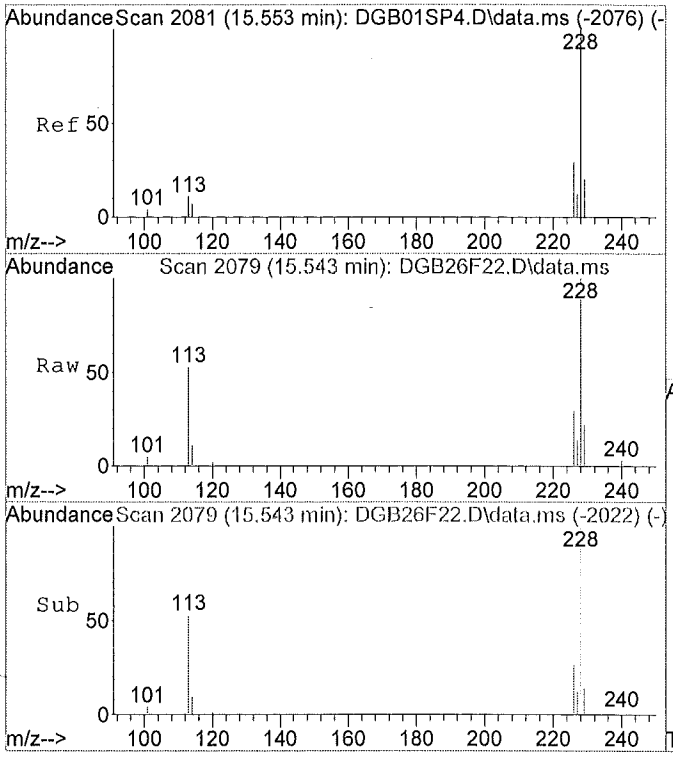


#17
Benzo(a)anthracene
Concen: 0.10 ug/ml
RT: 15.49 min Scan# 2069
Delta R.T. -0.01 min
Lab File: DGB26F22.D
Acq: 06/16/2015 02:58

Tgt Ion:228 Resp: 86326

Ion	Ratio	Lower	Upper
228	100		
229	25.6	14.5	26.9
226	35.0	18.5	34.3#
0	0.0	0.0	0.0

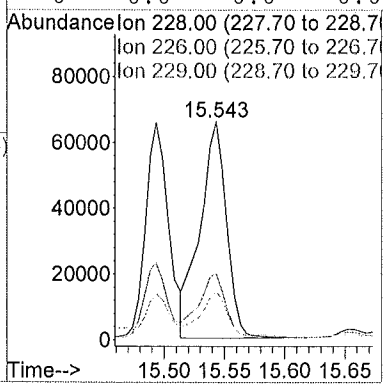


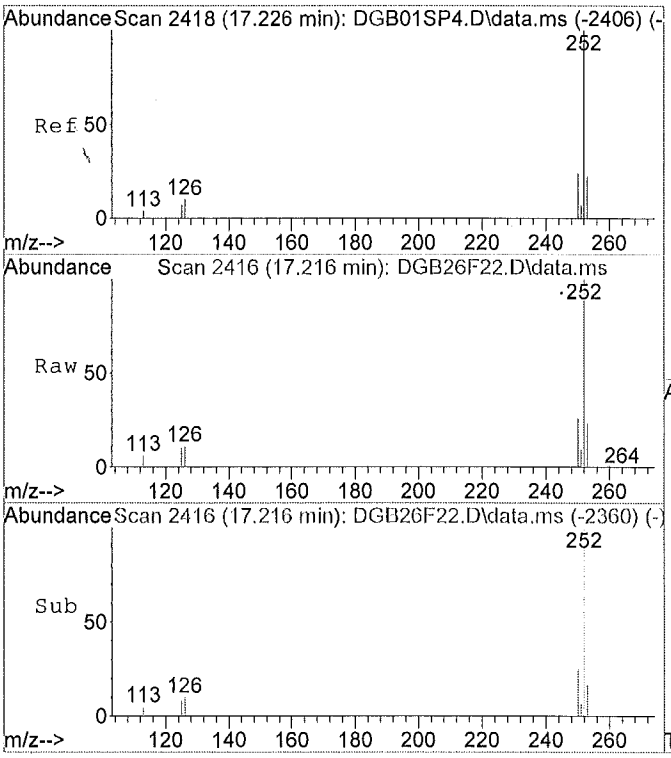


#18
Chrysene
Concen: 0.11 ug/ml
RT: 15.54 min Scan# 2079
Delta R.T. -0.01 min
Lab File: DGB26F22.D
Acq: 06/16/2015 02:58

Tgt Ion:228 Resp: 100961

Ion	Ratio	Lower	Upper
228	100		
226	30.8	19.7	36.7
229	19.1	14.5	26.9
0	0.0	0.0	0.0

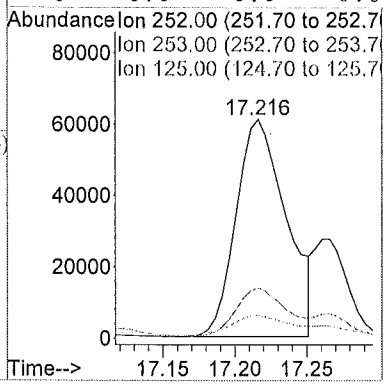




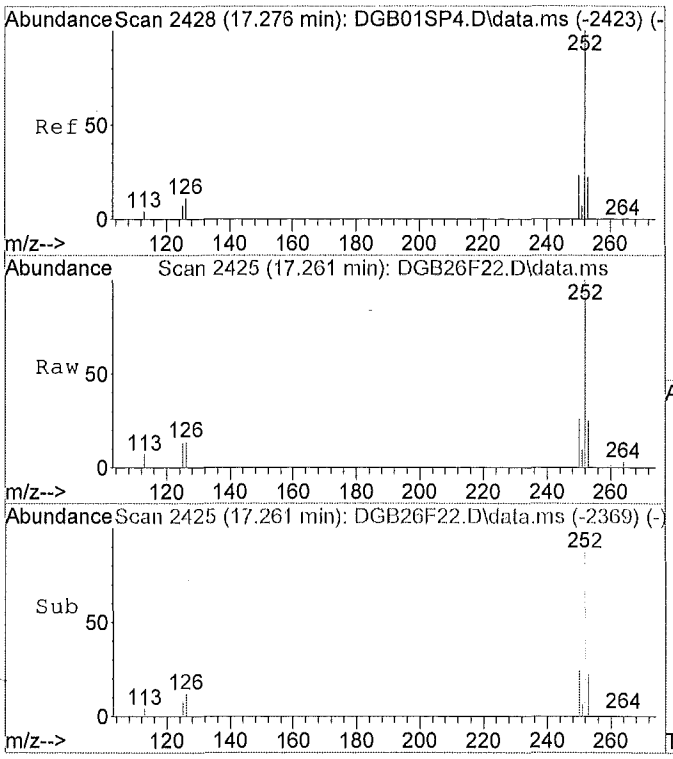
#20
Benzo(b)fluoranthene
Concen: 0.15 ug/ml
RT: 17.22 min Scan# 2416
Delta R.T. -0.01 min
Lab File: DGB26F22.D
Acq: 06/16/2015 02:58

Tgt Ion:252 Resp: 147720

Ion	Ratio	Lower	Upper
252	100		
253	22.1	15.3	28.3
125	8.5	0.0	0.0#
0	0.0	0.0	0.0



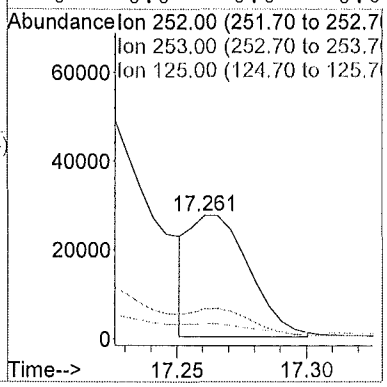
: 00799

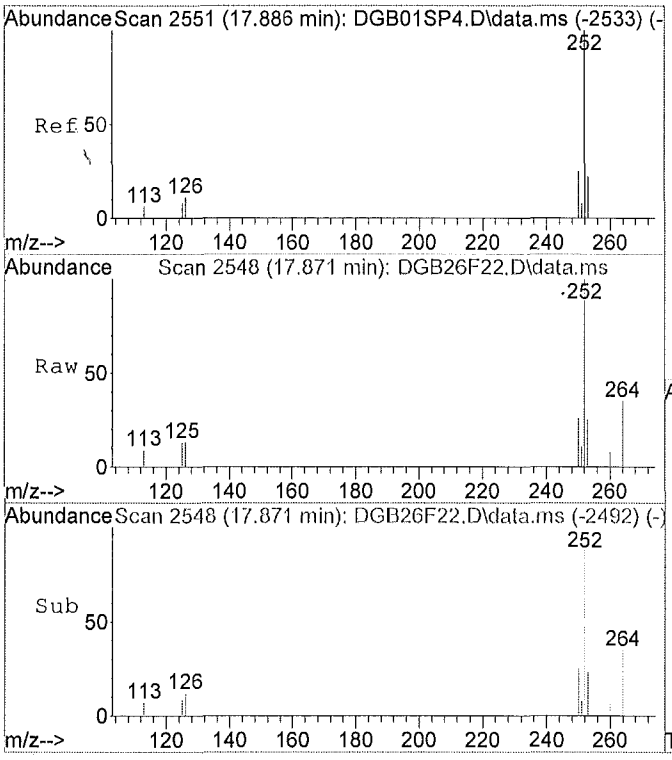


#21
Benzo(k)fluoranthene
Concen: 0.04 ug/ml m
RT: 17.26 min Scan# 2425
Delta R.T. -0.02 min
Lab File: DGB26F22.D
Acq: 06/16/2015 02:58

Tgt Ion:252 Resp: 43580

Ion	Ratio	Lower	Upper
252	100		
253	74.8	15.0	27.8#
125	28.8	0.0	0.0#
0	0.0	0.0	0.0

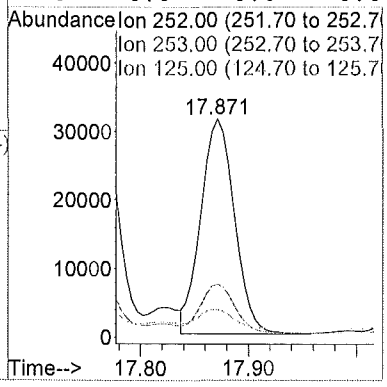


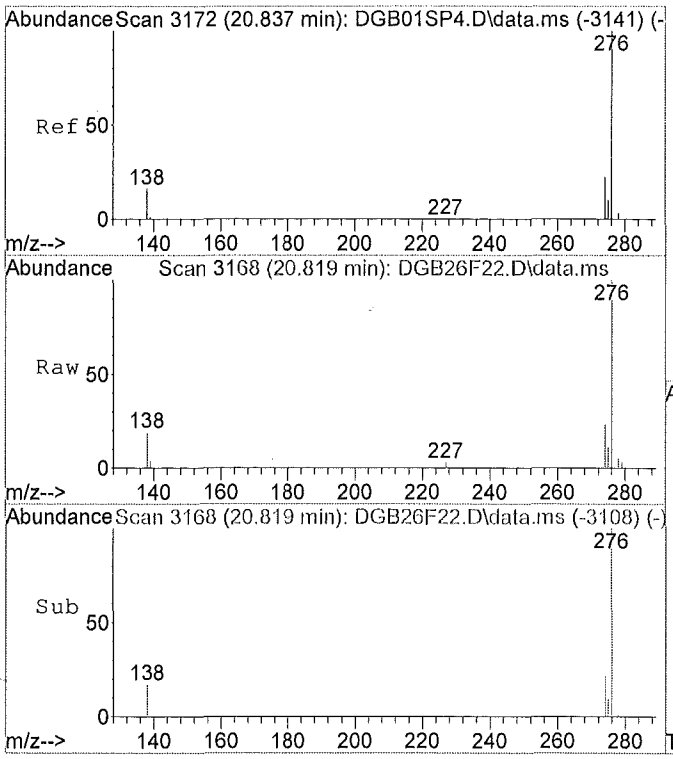


#22
Benzo(a)pyrene
Concen: 0.07 ug/ml
RT: 17.87 min Scan# 2548
Delta R.T. -0.02 min
Lab File: DGB26F22.D
Acq: 06/16/2015 02:58

Tgt Ion:252 Resp: 68114

Ion	Ratio	Lower	Upper
252	100		
253	23.6	15.0	27.8
125	9.7	0.0	0.0#
0	0.0	0.0	0.0

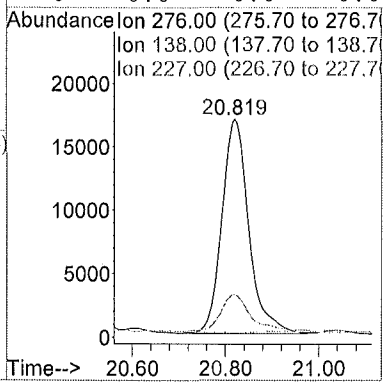


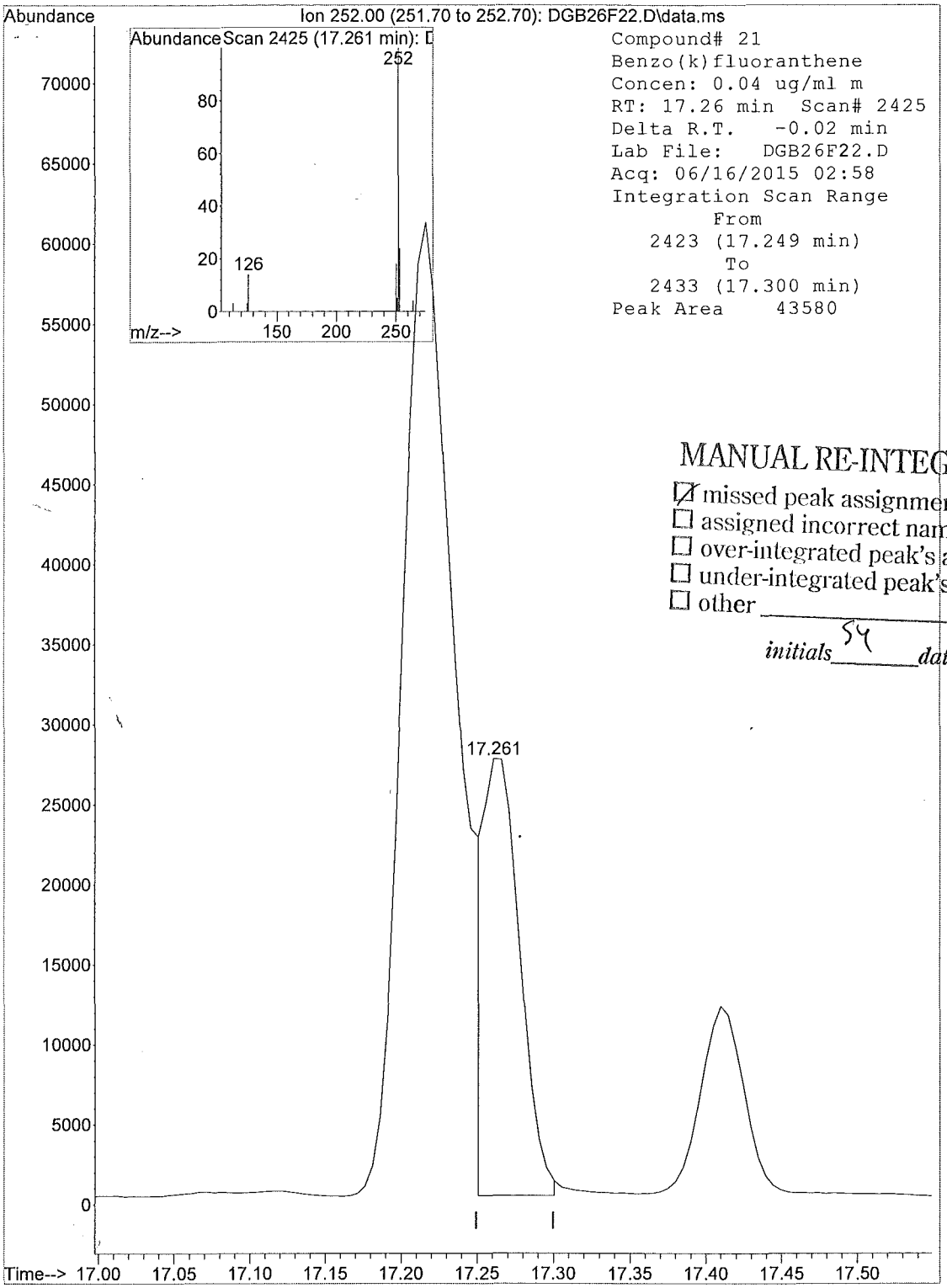


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.08 ug/ml
RT: 20.82 min Scan# 3168
Delta R.T. -0.03 min
Lab File: DGB26F22.D
Acq: 06/16/2015 02:58

Tgt Ion:276 Resp: 67289

Ion	Ratio	Lower	Upper
276	100		
138	18.5	0.0	0.0#
227	0.1	0.0	0.0#
0	0.0	0.0	0.0





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* 6/18/15

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.: F9M21

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

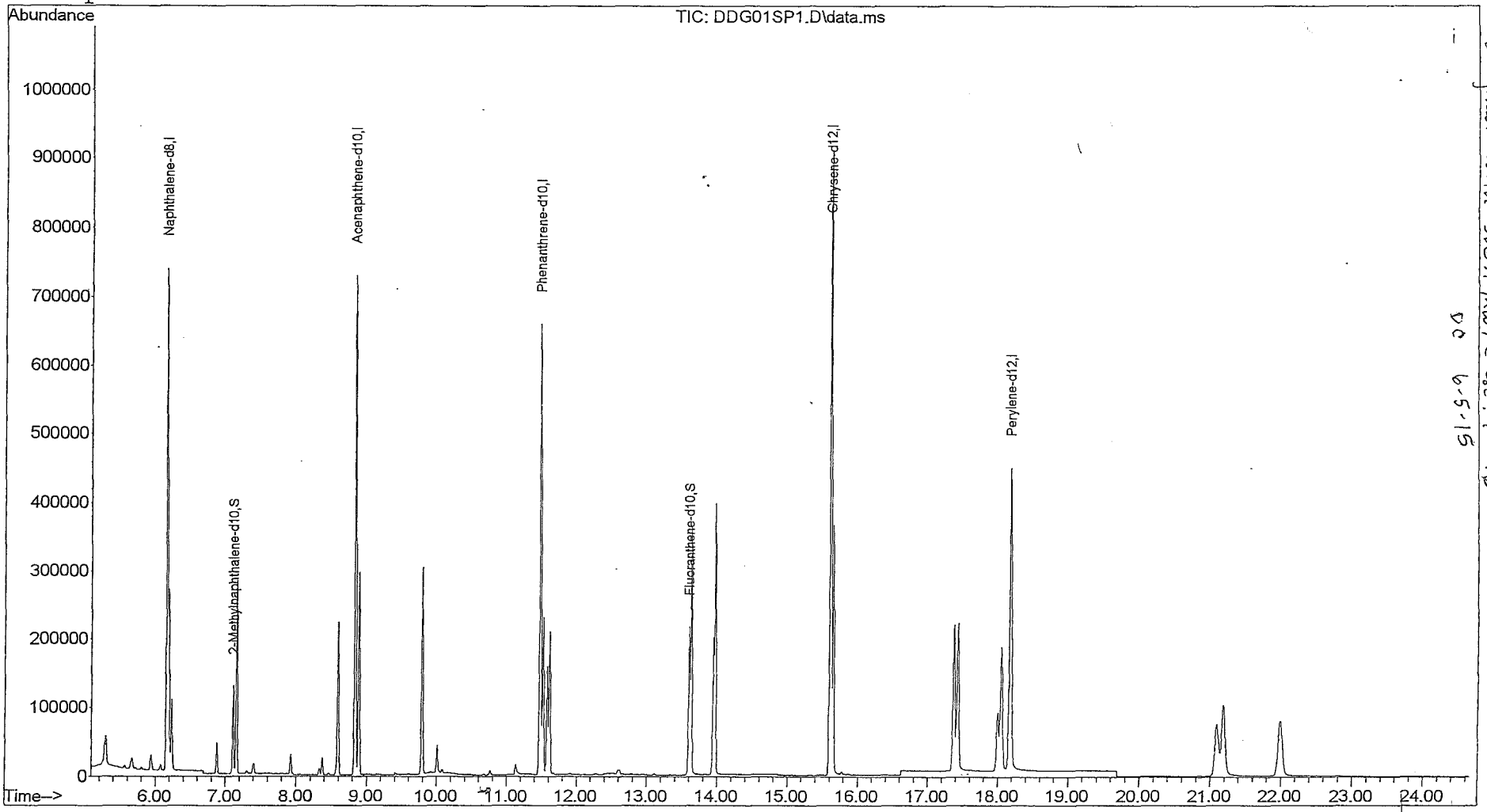
COMPOUND	RRF 0.1	RRF 0.2	RRF 0.4	RRF 0.8	RRF 1.0	$\overline{RRF}$	%RSD
Naphthalene	1.070	1.060	1.047	1.004	1.034	1.043	2.5
2-Methylnaphthalene	0.678	0.680	0.672	0.652	0.676	0.672	1.7
Acenaphthylene	1.712	1.721	1.747	1.737	1.836	1.750	2.8
Acenaphthene	1.121	1.125	1.118	1.093	1.144	1.120	1.6
Fluorene	1.280	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

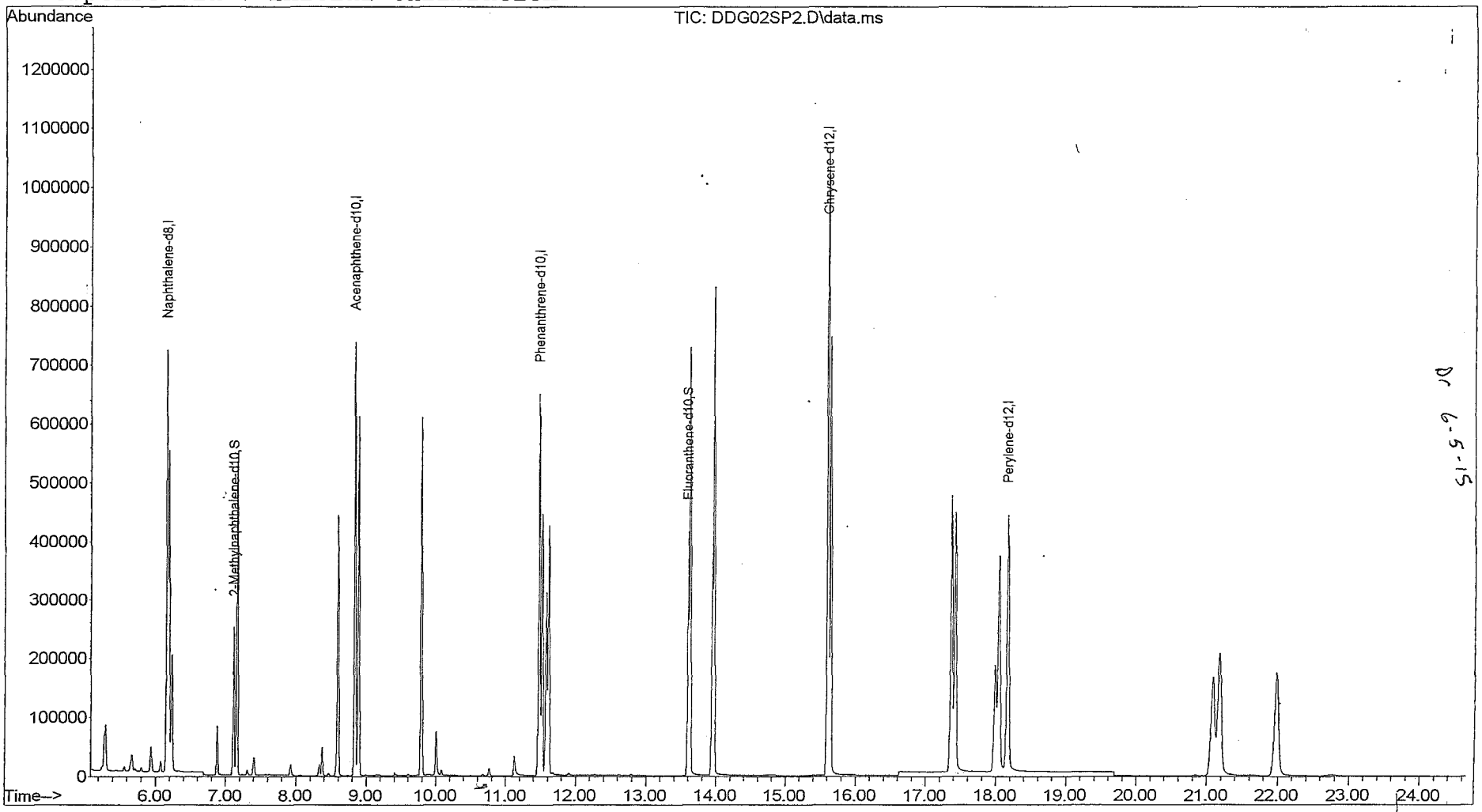
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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)

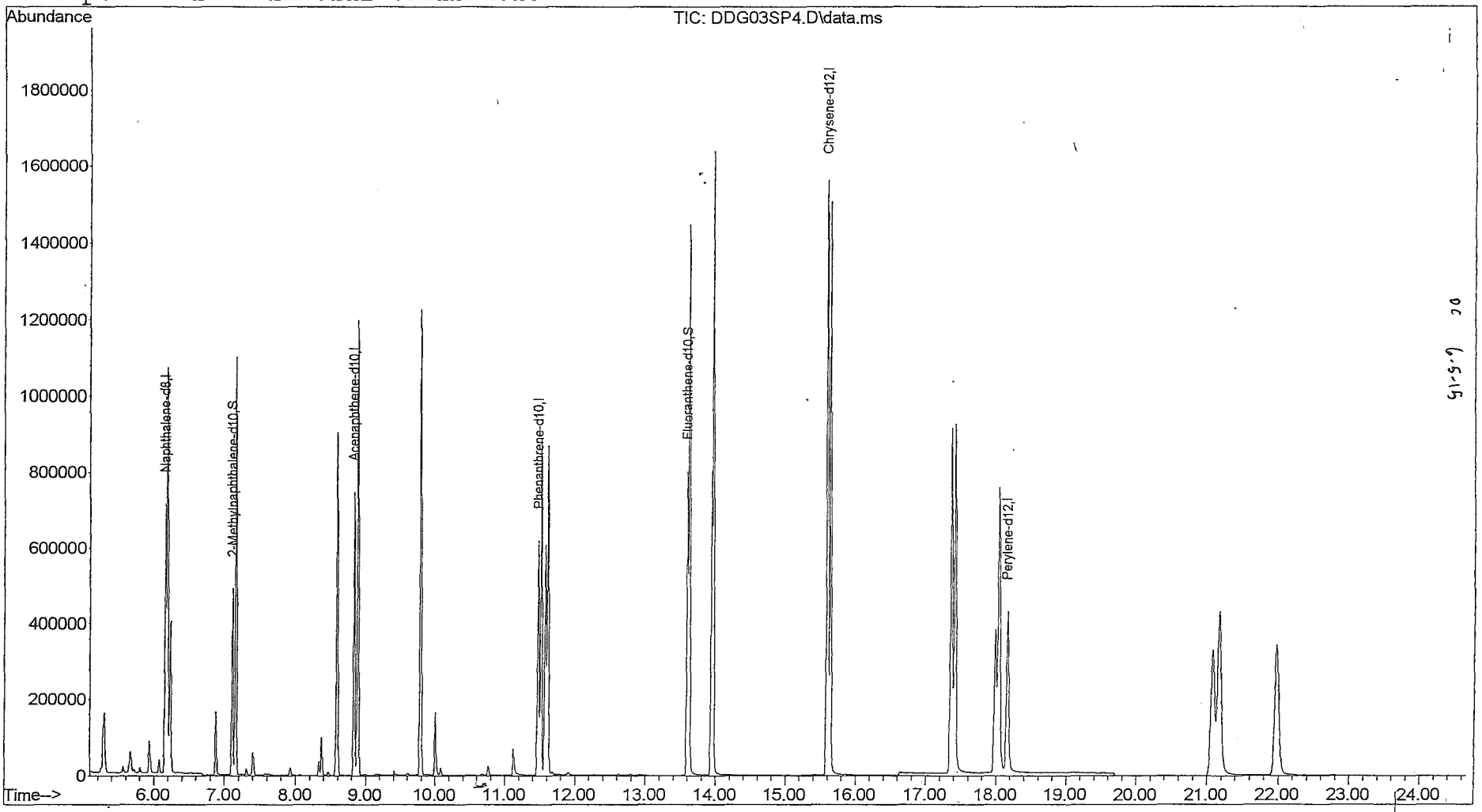
00007

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

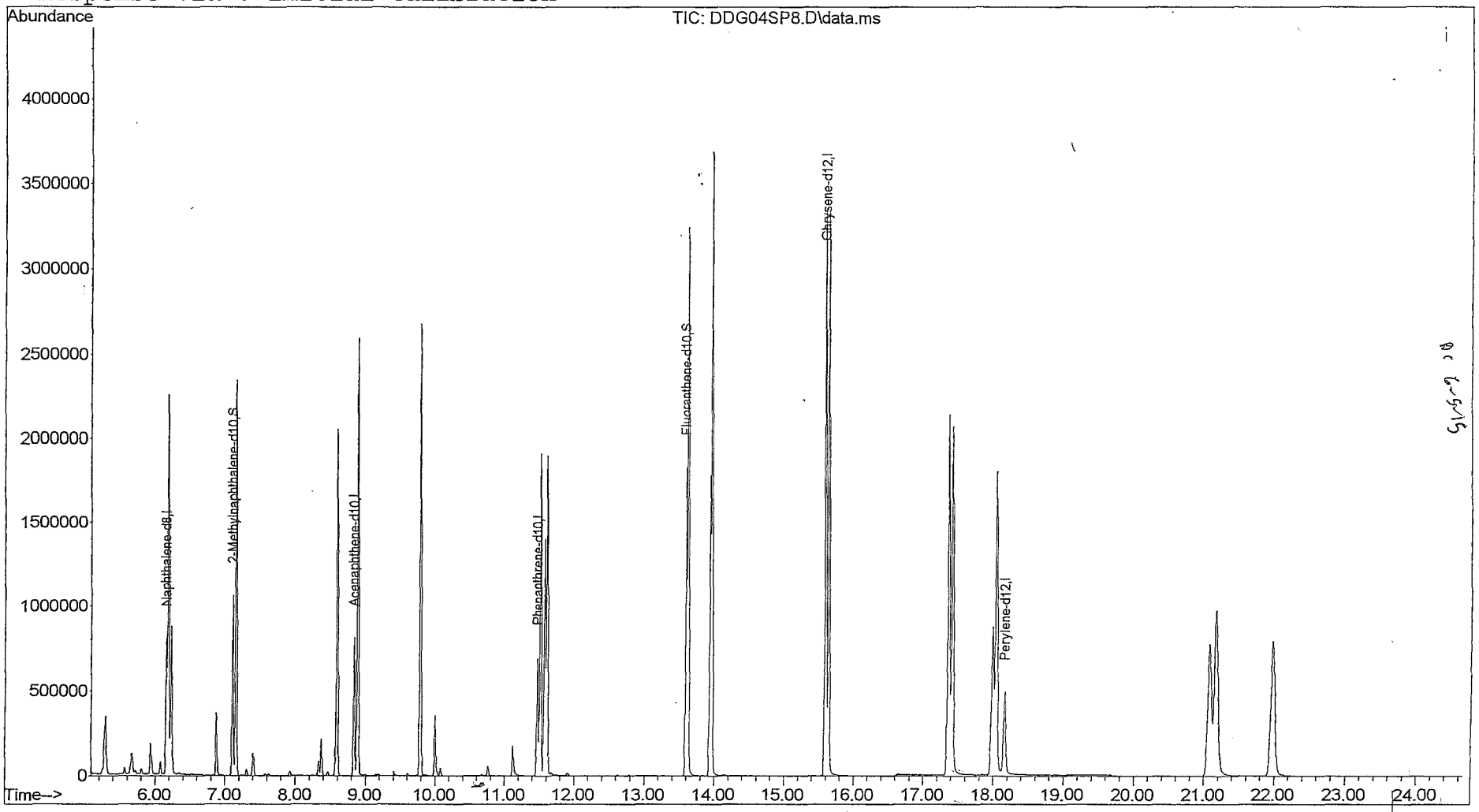
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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)

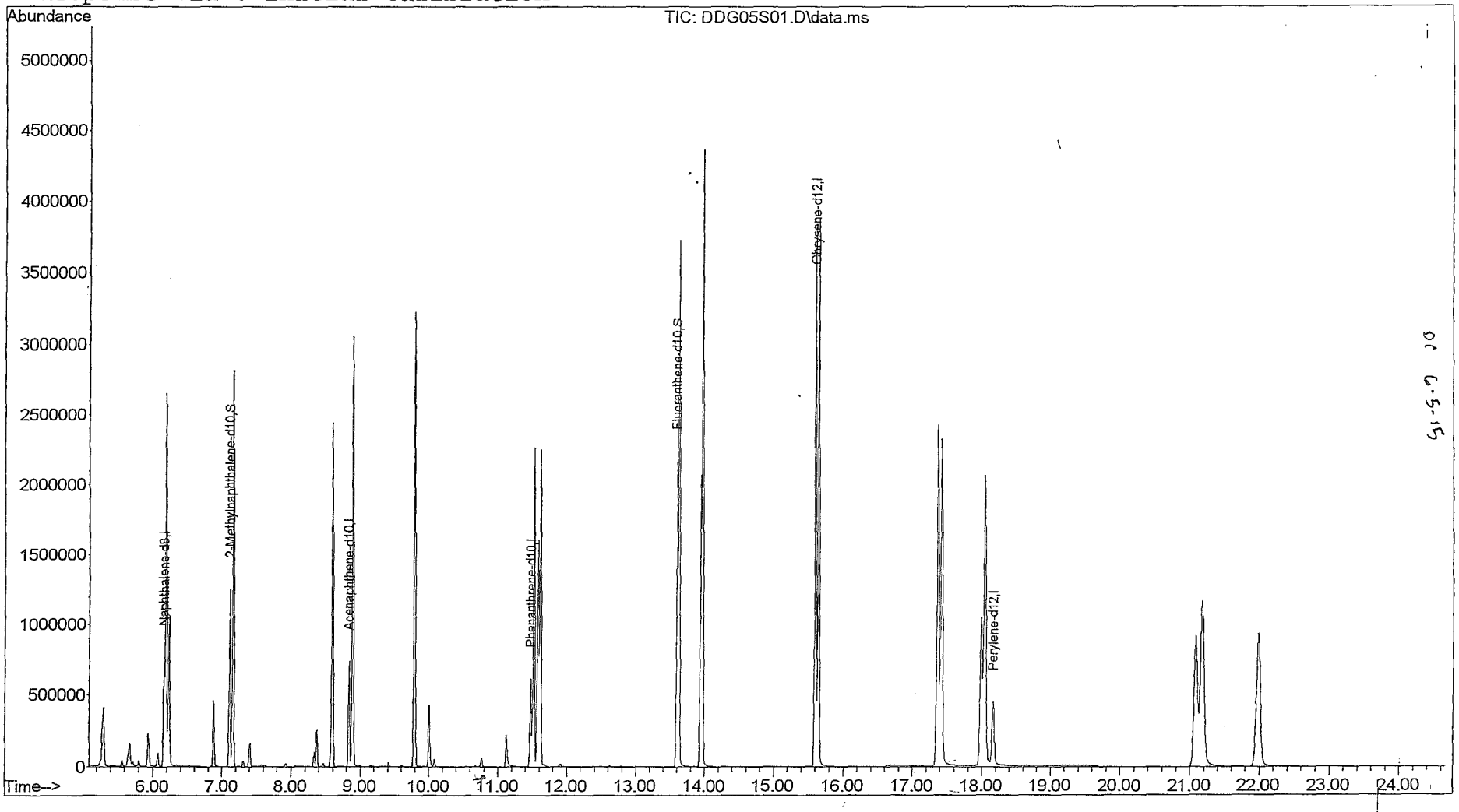
00911

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



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)

88913

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.: F9M21

Instrument ID: 5975-D Calibration Date: 06/15/2015 Time: 15:02

Lab File ID: DGB01SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4DB Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

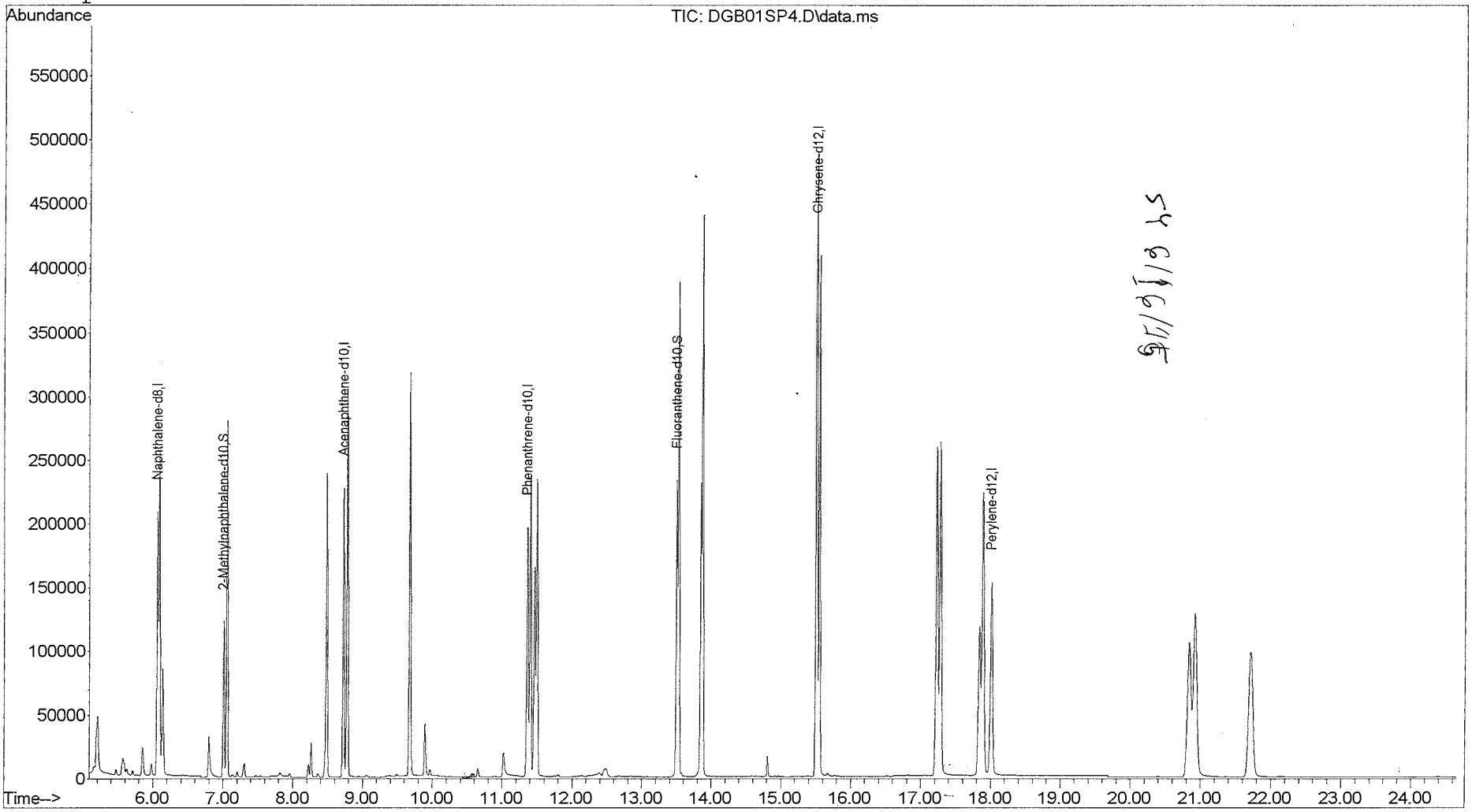
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	0.885	0.700	-15.2	25.0
2-Methylnaphthalene	0.672	0.590	0.400	-12.1	25.0
Acenaphthylene	1.750	1.494	0.900	-14.6	25.0
Acenaphthene	1.120	0.956	0.900	-14.6	25.0
Fluorene	1.299	1.089	0.900	-16.2	25.0
Pentachlorophenol	0.060	0.062	0.050	3.3	25.0
Phenanthrene	1.152	0.932	0.700	-19.1	25.0
Anthracene	1.120	0.917	0.700	-18.1	25.0
Fluoranthene	1.311	1.127	0.600	-14.0	25.0
Pyrene	1.255	1.098	0.600	-12.5	25.0
Benzo(a)anthracene	1.067	0.989	0.800	-7.3	25.0
Chrysene	1.127	0.951	0.700	-15.6	25.0
Benzo(b)fluoranthene	1.247	1.048	0.700	-16.0	25.0
Benzo(k)fluoranthene	1.292	1.040	0.700	-19.5	25.0
Benzo(a)pyrene	1.191	0.994	0.700	-16.6	25.0
Indeno(1,2,3-cd)pyrene	1.043	0.959	0.500	-8.0	25.0
Dibenzo(a,h)anthracene	1.153	0.982	0.400	-14.9	25.0
Benzo(g,h,i)perylene	1.172	1.013	0.500	-13.6	25.0
Fluoranthene-d10	1.094	0.991	0.010	-9.4	25.0
2-Methylnaphthalene-d10	0.645	0.582	0.010	-9.9	25.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\15JUN15\DGB01SP4.D Vial: 1
Acq On : 06/15/2015 15:02 Operator: SY
Sample : SSTD0.4DB 28297 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 15 15:27:41 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 : Tue Jun 16 06:49:44 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\15JUN15\DGB01SP4.D Vial: 1
Acq On : 06/15/2015 15:02 Operator: SY
Sample : SSTD0.4DB 28297 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 15 15:27:41 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 : Tue Jun 16 06:49:44 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	
1) Naphthalene-d8	6.06	136	236119	0.40	ug/ml	
5) Acenaphthene-d10	8.72	164	152944	0.40	ug/ml	
9) Phenanthrene-d10	11.36	188	272281	0.40	ug/ml	
15) Chrysene-d12	15.51	240	295425	0.40	ug/ml	
19) Perylene-d12	18.01	264	272680	0.40	ug/ml	
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.00	152	137312	0.360	ug/mL	
13) Fluoranthene-d10	13.50	212	269769	0.362	ug/mL	
Target Compounds						Qvalue
2) Naphthalene	6.09	128	208890	0.339	ug/ml	97
4) 2-Methylnaphthalene	7.05	142	139360	0.352	ug/ml	98
6) Acenaphthylene	8.48	152	228572	0.342	ug/ml	97
7) Acenaphthene	8.78	153	146252	0.341	ug/ml	99
8) Fluorene	9.67	166	166488	0.335	ug/ml	100
10) Pentachlorophenol	11.02	266	16895	0.413	ug/ml	100
11) Phenanthrene	11.40	178	253791	0.324	ug/ml	99
12) Anthracene	11.50	178	249675	0.327	ug/ml	97
14) Fluoranthene	13.53	202	306978	0.344	ug/ml	87
16) Pyrene	13.87	202	324484	0.350	ug/ml	88
17) Benzo(a)anthracene	15.50	228	292067	0.371	ug/ml	98
18) Chrysene	15.55	228	280881	0.337	ug/ml	96
20) Benzo(b)fluoranthene	17.23	252	285695	0.336	ug/ml	100
21) Benzo(k)fluoranthene	17.28	252	283507	0.322	ug/ml	99
22) Benzo(a)pyrene	17.89	252	271011	0.334	ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.84	276	261525	0.368	ug/ml	100
24) Dibenzo(a,h)anthracene	20.92	278	267781	0.341	ug/ml	98
25) Benzo(g,h,i)perylene	21.71	276	276220	0.346	ug/ml	70

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00816

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.: F9M21

Instrument ID: 5975-D Calibration Date: 06/16/2015 Time: 00:01

Lab File ID: DGB20SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4D1 Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

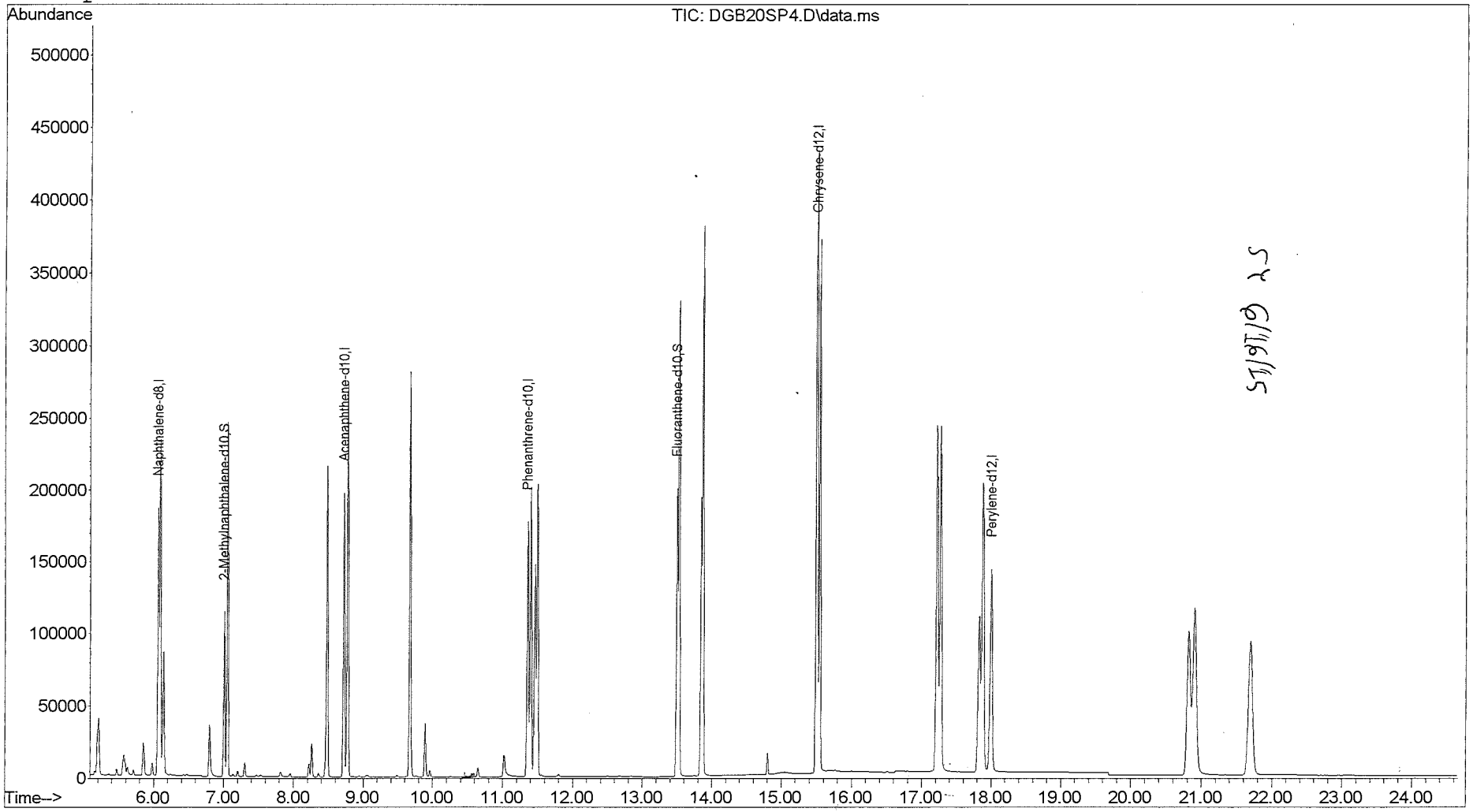
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	0.886	0.700	-15.1	25.0
2-Methylnaphthalene	0.672	0.589	0.400	-12.3	25.0
Acenaphthylene	1.750	1.524	0.900	-12.9	25.0
Acenaphthene	1.120	0.964	0.900	-13.9	25.0
Fluorene	1.299	1.107	0.900	-14.8	25.0
Pentachlorophenol	0.060	0.055	0.050	-7.7	25.0
Phenanthrene	1.152	0.936	0.700	-18.7	25.0
Anthracene	1.120	0.928	0.700	-17.1	25.0
Fluoranthene	1.311	1.098	0.600	-16.2	25.0
Pyrene	1.255	1.071	0.600	-14.7	25.0
Benzo(a)anthracene	1.067	1.010	0.800	-5.3	25.0
Chrysene	1.127	0.956	0.700	-15.2	25.0
Benzo(b)fluoranthene	1.247	1.045	0.700	-16.2	25.0
Benzo(k)fluoranthene	1.292	1.010	0.700	-21.8	25.0
Benzo(a)pyrene	1.191	0.995	0.700	-16.5	25.0
Indeno(1,2,3-cd)pyrene	1.043	0.936	0.500	-10.2	25.0
Dibenzo(a,h)anthracene	1.153	0.944	0.400	-18.2	25.0
Benzo(g,h,i)perylene	1.172	0.971	0.500	-17.2	25.0
Fluoranthene-d10	1.094	0.952	0.010	-13.0	25.0
2-Methylnaphthalene-d10	0.645	0.578	0.010	-10.4	25.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\15JUN15\DGB20SP4.D Vial: 1
Acq On : 06/16/2015 00:01 Operator: SY
Sample : SSTD0.4D1 28297 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 16 00:25:53 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 : Tue Jun 16 06:50:20 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\15JUN15\DGB20SP4.D Vial: 1
Acq On : 06/16/2015 00:01 Operator: SY
Sample : SSTD0.4D1 28297 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 16 00:25:53 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 : Tue Jun 16 06:50:20 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.06	136	212362	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	134800	0.40 ug/ml	
9) Phenanthrene-d10	11.35	188	240084	0.40 ug/ml	
15) Chrysene-d12	15.51	240	259737	0.40 ug/ml	
19) Perylene-d12	18.00	264	253922	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	122778	0.358ug/mL	
13) Fluoranthene-d10	13.49	212	228557	0.348ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.09	128	188113	0.340ug/ml	94
4) 2-Methylnaphthalene	7.05	142	125148	0.351ug/ml	98
6) Acenaphthylene	8.48	152	205420	0.348ug/ml	97
7) Acenaphthene	8.77	153	129959	0.344ug/ml	99
8) Fluorene	9.67	166	149161	0.341ug/ml	100
10) Pentachlorophenol	11.02	266	13302	0.369ug/ml	100
11) Phenanthrene	11.40	178	224768	0.325ug/ml	98
12) Anthracene	11.49	178	222812	0.331ug/ml	97
14) Fluoranthene	13.52	202	263632	0.335ug/ml	88
16) Pyrene	13.87	202	278195	0.341ug/ml	88
17) Benzo(a)anthracene	15.49	228	262445	0.379ug/ml	98
18) Chrysene	15.54	228	248186	0.339ug/ml	97
20) Benzo(b)fluoranthene	17.21	252	265433	0.335ug/ml	100
21) Benzo(k)fluoranthene	17.27	252	256482	0.313ug/ml	99
22) Benzo(a)pyrene	17.87	252	252592	0.334ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.82	276	237731	0.359ug/ml	100
24) Dibenzo(a,h)anthracene	20.91	278	239641	0.327ug/ml	99
25) Benzo(g,h,i)perylene	21.70	276	246499	0.331ug/ml	71

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

080819

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.: F9M21

Instrument ID: 5975-D Calibration Date: 06/16/2015 Time: 03:28

Lab File ID: DGB27SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4D2 Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

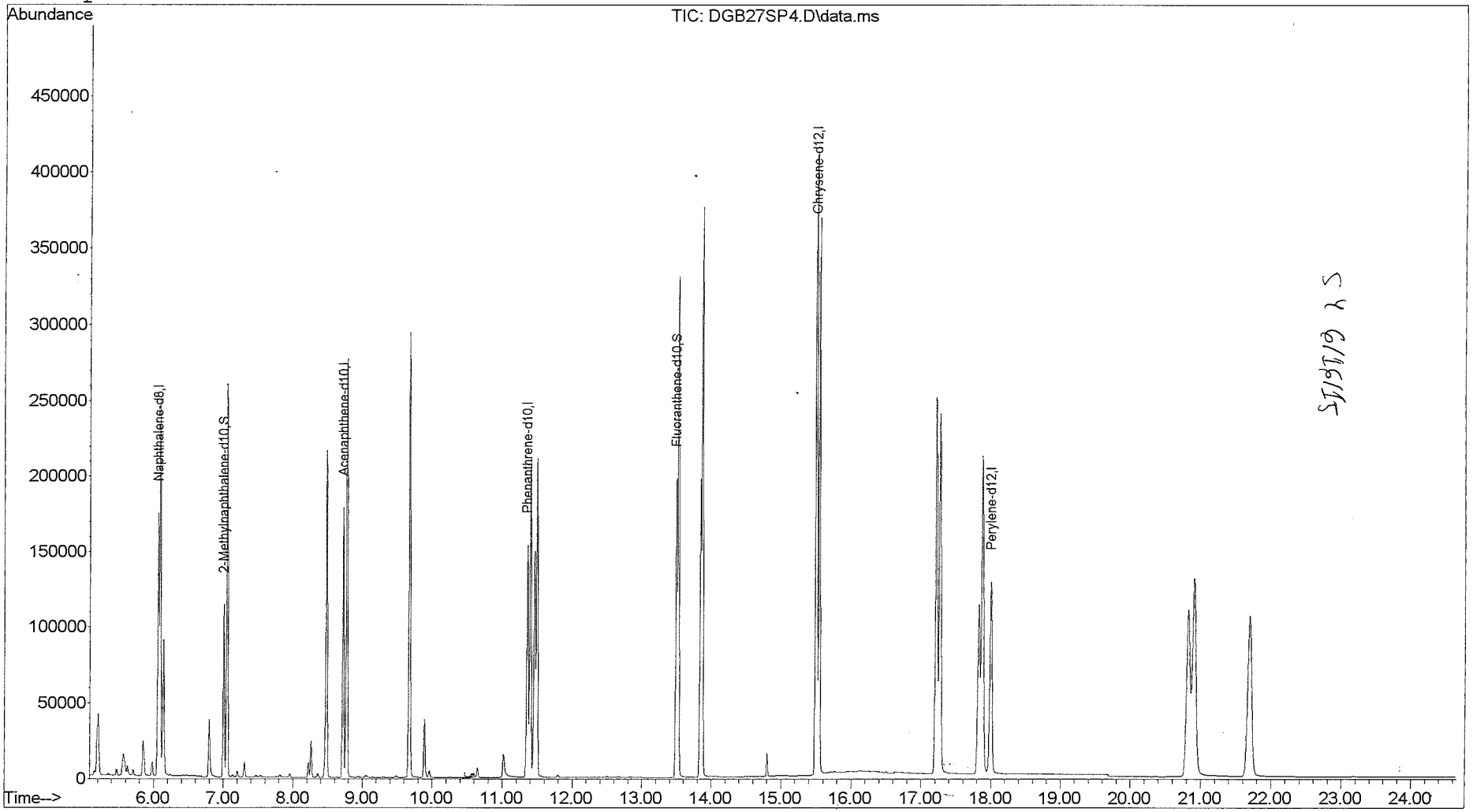
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	0.986	0.010	-5.5	50.0
2-Methylnaphthalene	0.672	0.650	0.010	-3.2	50.0
Acenaphthylene	1.750	1.716	0.010	-2.0	50.0
Acenaphthene	1.120	1.086	0.010	-3.1	50.0
Fluorene	1.299	1.239	0.010	-4.6	50.0
Pentachlorophenol	0.060	0.064	0.010	7.1	50.0
Phenanthrene	1.152	1.077	0.010	-6.5	50.0
Anthracene	1.120	1.061	0.010	-5.3	50.0
Fluoranthene	1.311	1.251	0.010	-4.6	50.0
Pyrene	1.255	1.215	0.010	-3.2	50.0
Benzo(a)anthracene	1.067	1.138	0.010	6.7	50.0
Chrysene	1.127	1.082	0.010	-4.0	50.0
Benzo(b)fluoranthene	1.247	1.183	0.010	-5.1	50.0
Benzo(k)fluoranthene	1.292	1.128	0.010	-12.7	50.0
Benzo(a)pyrene	1.191	1.125	0.010	-5.5	50.0
Indeno(1,2,3-cd)pyrene	1.043	1.149	0.010	10.2	50.0
Dibenzo(a,h)anthracene	1.153	1.177	0.010	2.1	50.0
Benzo(g,h,i)perylene	1.172	1.208	0.010	3.0	50.0
Fluoranthene-d10	1.094	1.083	0.010	-1.0	50.0
2-Methylnaphthalene-d10	0.645	0.639	0.010	-1.0	50.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\15JUN15\DGB27SP4.D Vial: 24
Acq On : 06/16/2015 03:28 Operator: SY
Sample : SSTD0.4D2 28297 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 16 03:53:06 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 : Tue Jun 16 06:50:46 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\15JUN15\DGB27SP4.D Vial: 24
Acq On : 06/16/2015 03:28 Operator: SY
Sample : SSTD0.4D2 28297 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 16 03:53:06 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 : Tue Jun 16 06:50:46 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.06	136	197634	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	122097	0.40 ug/ml	
9) Phenanthrene-d10	11.35	188	211878	0.40 ug/ml	
15) Chrysene-d12	15.51	240	230943	0.40 ug/ml	
19) Perylene-d12	18.00	264	229415	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	126224	0.396ug/mL	
13) Fluoranthene-d10	13.49	212	229435	0.396ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.09	128	194799	0.378ug/ml	94
4) 2-Methylnaphthalene	7.05	142	128548	0.387ug/ml	98
6) Acenaphthylene	8.48	152	209510	0.392ug/ml	97
7) Acenaphthene	8.77	153	132579	0.388ug/ml	99
8) Fluorene	9.67	166	151239	0.381ug/ml	100
10) Pentachlorophenol	11.02	266	13622	0.428ug/ml	100
11) Phenanthrene	11.40	178	228089	0.374ug/ml	98
12) Anthracene	11.49	178	224762	0.379ug/ml	97
14) Fluoranthene	13.52	202	265019	0.382ug/ml	88
16) Pyrene	13.87	202	280626	0.387ug/ml	88
17) Benzo(a)anthracene	15.49	228	262807	0.427ug/ml	98
18) Chrysene	15.54	228	249811	0.384ug/ml	97
20) Benzo(b)fluoranthene	17.21	252	271454	0.380ug/ml	100
21) Benzo(k)fluoranthene	17.27	252	258767	0.349ug/ml	99
22) Benzo(a)pyrene	17.87	252	258188	0.378ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.82	276	263519	0.441ug/ml	100
24) Dibenzo(a,h)anthracene	20.90	278	270117	0.408ug/ml	98
25) Benzo(g,h,i)perylene	21.69	276	277157	0.412ug/ml	70

(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.

SBLK93

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450193

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DGB03BLK

Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

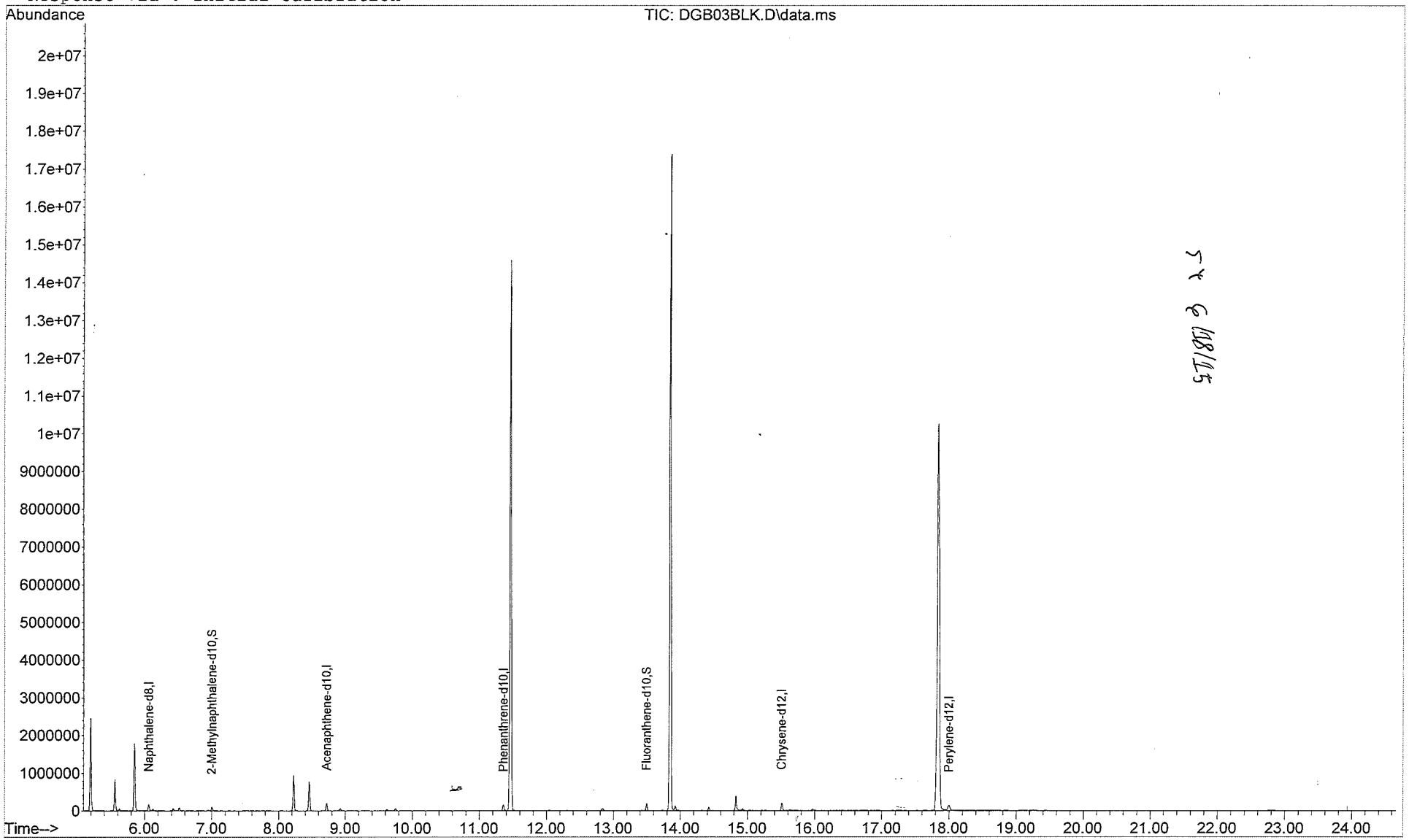
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.3	U
91-57-6	2-Methylnaphthalene	3.3	U
208-96-8	Acenaphthylene	3.3	U
83-32-9	Acenaphthene	3.3	U
86-73-7	Fluorene	3.3	U
87-86-5	Pentachlorophenol	6.7	U
85-01-8	Phenanthrene	3.3	U
120-12-7	Anthracene	3.3	U
206-44-0	Fluoranthene	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...IM\15JUN15\DGB03BLK.D Vial: 2
Acq On : 06/15/2015 15:32 Operator: SY
Sample : 450193 SBLK93 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 17 14:55:23 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\15JUN15\DGB03BLK.D Vial: 2
Acq On : 06/15/2015 15:32 Operator: SY
Sample : 450193 SBLK93 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 17 14:55:23 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

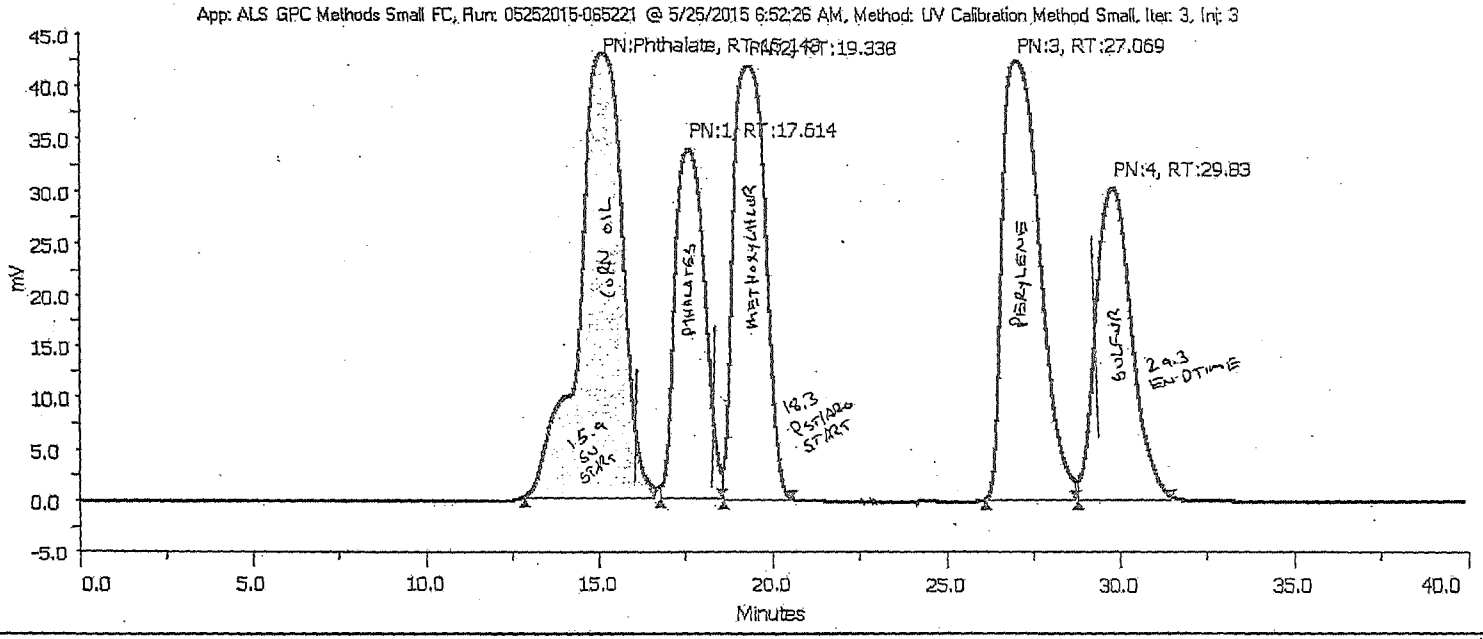
Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.06	136	187221	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	137158	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	237916	0.40 ug/ml
15) Chrysene-d12	15.51	240	246266	0.40 ug/ml
19) Perylene-d12	18.00	264	264194	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.00	152	110616	0.366ug/mL
13) Fluoranthene-d10	13.49	212	219827	0.338ug/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)

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
5/25/15
Lee Edmonds
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	12.888	15.143	6185062.9167	42.65	0	90.122
3	GPC Weekly	Sample Zone->1	1	16.776	17.614	3298919.1667	33.43	90.122	91.565
3	GPC Weekly	Sample Zone->1	2	18.578	19.338	4422131.25	41.52	91.565	342.046
3	GPC Weekly	Sample Zone->1	3	26.172	27.069	5238672.5	42.14	342.046	106.152
3	GPC Weekly	Sample Zone->1	4	28.819	29.83	3595322.9167	29.99	106.152	0

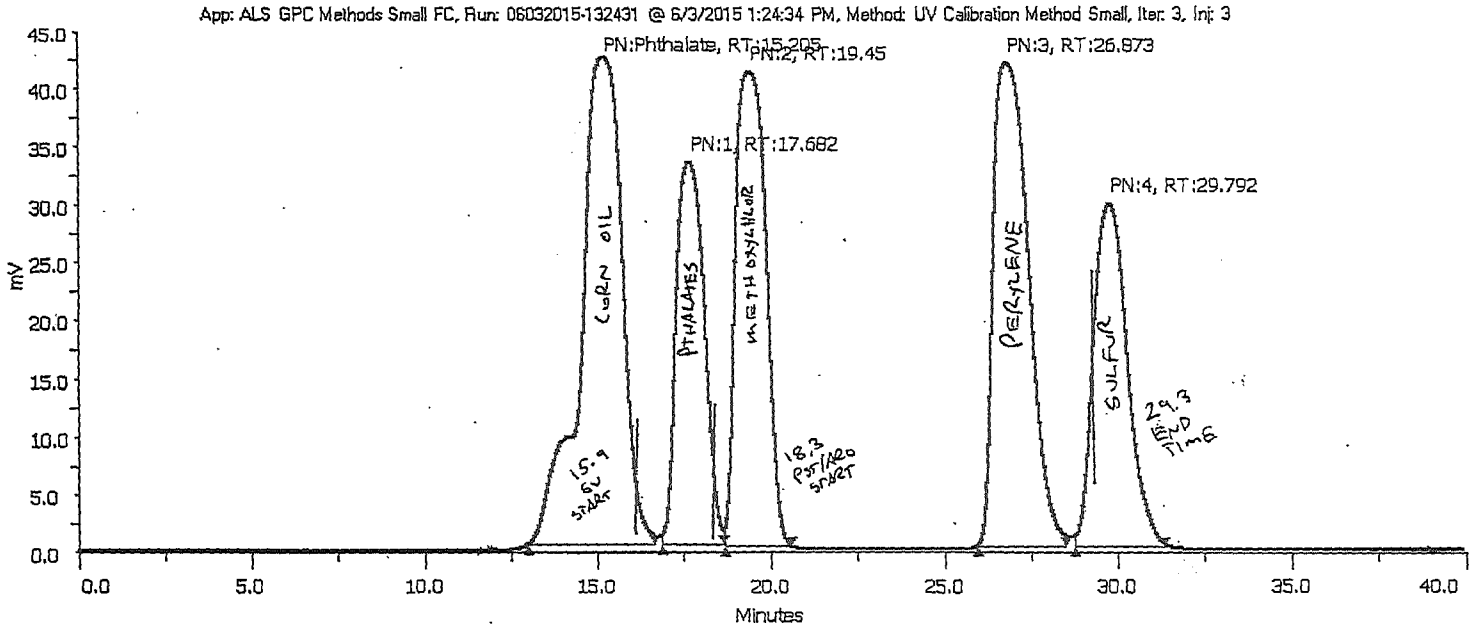
Run Variables

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
[signature]
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

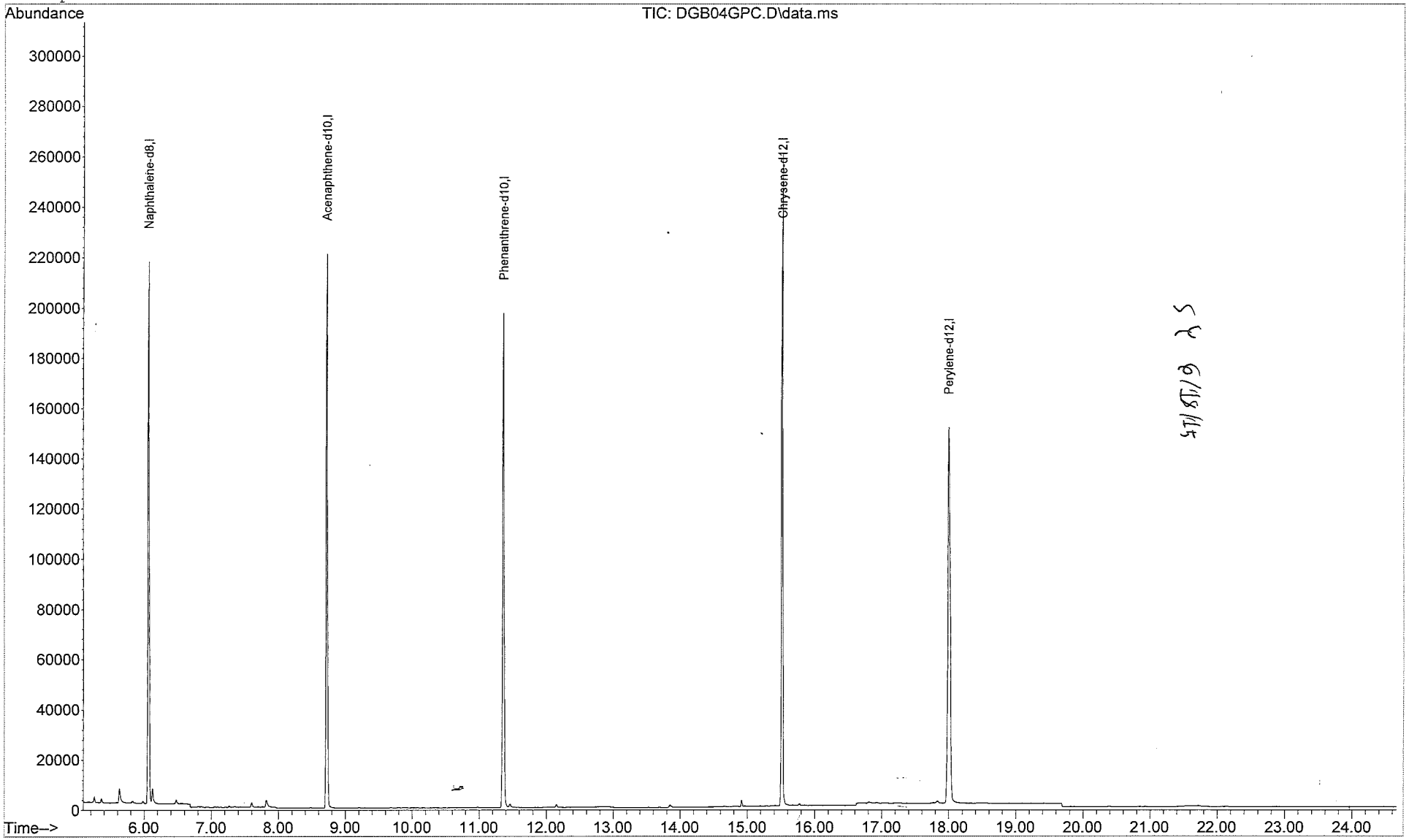
Run Variables

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\15JUN15\DGB04GPC.D Vial: 3
Acq On : 06/15/2015 16:03 Operator: SY
Sample : 450810 GBLK10 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 15 16:27:55 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\15JUN15\DGB04GPC.D Vial: 3
Acq On : 06/15/2015 16:03 Operator: SY
Sample : 450810 GBLK10 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 15 16:27:55 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	6.06	136	242147	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	155358	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	279131	0.40 ug/ml
15) Chrysene-d12	15.51	240	301360	0.40 ug/ml
19) Perylene-d12	18.00	264	285361	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.04	152	75	0.000ug/mL
13) Fluoranthene-d10	0.00	212	0	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.: F9M21

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	55	57	65	66			0
02	PLCSS1	58	60	71	71			0
03	F9M21	60	58	56	69			0
04	F9M22	66	62	60	67			0
05	F9M23	83	73	119	133			0
06	F9M24	66	53	58	63			0
07	F9M25	68	61	52	56			0
08	F9M26	77	68	62	65			0
09	F9M27	56	54	61	60			0
10	F9M28	52	47	41	45			0
11	F9M29	54	53	56	59			0
12	F9M30	54	54	60	65			0
13	F9M31	72	65	63	71			0
14	F9M32	65	59	61	70			0
15	F9M33	59	58	67	71			0
16	F9M34	65	62	69	73			0
17	F9M35	67	62	72	77			0
18	F9M37	64	60	77	91			0
19	F9M38	61	55	59	61			0
20	F9M39	65	57	62	68			0
21	F9M40	52	47	59	69			0
22	F9M41	52	45	65	67			0
23	F9M27MS	67	66	79	77			0
24	F9M27MSD	83	80	87	87			0
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.: F9M21

Matrix Spike - EPA Sample No.: F9M27

Instrument ID: GCE31 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)	20.	0	17.	82	46-127
Heptachlor	20.	0.15	17.	84	35-130
Aldrin	20.	0.34	17.	83	34-132
Dieldrin	41.	0.15	31.	76	31-134
Endrin	41.	0.55	35.	83	42-139
4,4'-DDT	41.	0.33	35.	84	23-134

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
gamma-BHC (Lindane)	20.	19.	95	15	0-50	46-127
Heptachlor	20.	20.	96	14	0-31	35-130
Aldrin	20.	20.	95	14	0-43	34-132
Dieldrin	41.	36.	87	14	0-38	31-134
Endrin	41.	39.	93	11	0-45	42-139
4,4'-DDT	41.	39.	94	12	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.: F9M21

Matrix Spike - EPA Sample No.: F9M27

Instrument ID: GCE31 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)	20.	0.095	16.	78	46-127
Heptachlor	20.	0.32	17.	80	35-130
Aldrin	20.	0	15.	73	34-132
Dieldrin	41.	1.1	34.	80	31-134
Endrin	41.	0.20	34.	83	42-139
4,4'-DDT	41.	1.0	32.	76	23-134

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
gamma-BHC (Lindane)	20.	19.	91	16	0-50	46-127
Heptachlor	20.	18.	88	9	0-31	35-130
Aldrin	20.	17.	82	12	0-43	34-132
Dieldrin	41.	38.	89	11	0-38	31-134
Endrin	41.	39.	95	14	0-45	42-139
4,4'-DDT	41.	36.	86	12	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:

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.: F9M21

Lab Sample ID: 450195 LCS Lot No.:

Date Extracted: 06/05/2015 Date Analyzed (1): 06/19/2015

Instrument ID (1): GCE31 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	0.91	55	50-120
Heptachlor epoxide	1.7	1.1	65	50-150
Dieldrin	3.3	2.3	68	30-130
4,4'-DDE	3.3	2.4	71	50-150
Endrin	3.3	2.3	69	50-120
Endosulfan sulfate	3.3	2.1	63	50-120
gamma-Chlordane	1.7	1.2	70	30-130

Instrument ID (2): GCE31 GC Column (2): RTXCLP2 ID: 0.32 (mm)

Date Analyzed (2): 06/19/2015

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC #	QC LIMITS
gamma-BHC (Lindane)	1.7	1.2	69	50-120
Heptachlor epoxide	1.7	1.2	75	50-150
Dieldrin	3.3	2.5	76	30-130
4,4'-DDE	3.3	2.5	75	50-150
Endrin	3.3	2.5	75	50-120
Endosulfan sulfate	3.3	2.2	66	50-120
gamma-Chlordane	1.7	1.2	74	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.: F9M21

Lab File ID: 31150619A018,31150619B018 Lab Sample ID: 450194

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 06/05/2015

Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) Y

Date Analyzed (1): 06/19/2015 Date Analyzed (2): 06/19/2015

Time Analyzed (1): 17:49 Time Analyzed (2): 18:10

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	450195	06/19/2015	06/19/2015
02	F9M21	1515542001	06/20/2015	06/20/2015
03	F9M22	1515542002	06/20/2015	06/20/2015
04	F9M23	1515542003	06/20/2015	06/20/2015
05	F9M24	1515542004	06/20/2015	06/20/2015
06	F9M25	1515542005	06/20/2015	06/20/2015
07	F9M26	1515542006	06/20/2015	06/20/2015
08	F9M27	1515542007	06/19/2015	06/19/2015
09	F9M28	1515542010	06/20/2015	06/20/2015
10	F9M29	1515542011	06/19/2015	06/19/2015
11	F9M30	1515542012	06/19/2015	06/19/2015
12	F9M31	1515542013	06/19/2015	06/19/2015
13	F9M32	1515542014	06/19/2015	06/19/2015
14	F9M33	1515542015	06/19/2015	06/19/2015
15	F9M34	1515542016	06/19/2015	06/19/2015
16	F9M35	1515542017	06/19/2015	06/19/2015
17	F9M37	1515542018	06/19/2015	06/19/2015
18	F9M38	1515542019	06/19/2015	06/19/2015
19	F9M39	1515542020	06/19/2015	06/19/2015
20	F9M40	1515542021	06/19/2015	06/19/2015
21	F9M41	1515542022	06/19/2015	06/19/2015
22	F9M27MS	1515542008	06/19/2015	06/19/2015
23	F9M27MSD	1515542009	06/19/2015	06/19/2015
24				
25				
26				

COMMENTS:

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M21

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542001

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31150619A039,31150619B039

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/20/2015

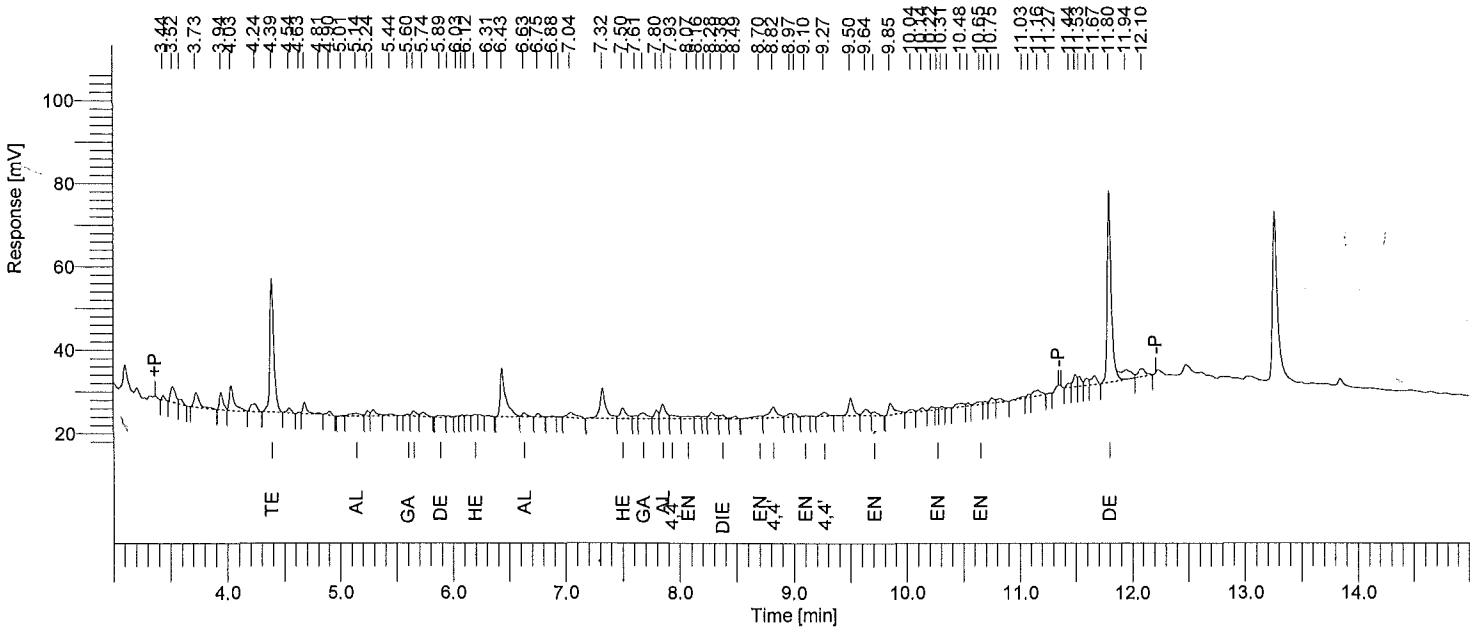
Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

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	0.50	JB
319-85-7	beta-BHC	0.26	JP
319-86-8	delta-BHC	0.30	JBP
58-89-9	gamma-BHC (Lindane)	0.099	J
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	0.36	JP
1024-57-3	Heptachlor epoxide	1.8	JBP
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	0.58	JBP
72-55-9	4,4'-DDE	0.59	J
72-20-8	Endrin	0.67	JP
33213-65-9	Endosulfan II	0.092	JP
72-54-8	4,4'-DDD	1.0	JP
1031-07-8	Endosulfan sulfate	0.23	J
50-29-3	4,4'-DDT	0.72	JP
72-43-5	Methoxychlor	21.	U
53494-70-5	Endrin ketone	0.52	J
7421-93-4	Endrin aldehyde	0.78	JBP
5103-71-9	alpha-Chlordane	0.32	JP
5103-74-2	gamma-Chlordane	1.1	JP
8001-35-2	Toxaphene	210	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:26:08
Operator	: sagers	Sample Name	: 1515542001
Sample Number	: 039	Study	: F9M21
AutoSampler	: HP7673A	Rack/Vial	: 0/39
Instrument Name	: GCE31	Channel	: A
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	: 06/20/2015 00:56:24	Dilution Factor	: 1.00
		Cycle	: 2

Raw Data File : \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619A_039.raw <Modified>
Result File : \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619A_039.rst
Inst Method : \\Alsltws012\TCCS\sagers\GCE31\31150619\31_som_acq_pest from \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619A_039.raw
Proc Method : \\Alsltws012\TCCS\sagers\GCE31\31150619\31_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619A_039.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE31\31150619\31_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619A_039.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE31\31150618\31_RPT_2UL\31_som_soil_sample_a.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619_SOM012_PEST_F9M21_A.seq



Instrument ID: GC31A 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 %
4.39	Tetrachloro-m-xylene	79200	0.03601829	1	10	0.03003	0.999	1.6650	11.99410	19.98	60.0
5.14	alpha-BHC	4158	1.4973e-03	1	10	0.03003	0.999	1.6650	0.49860	0.00	------
5.60	gamma-BHC	786	3.0281e-04	1	10	0.03003	0.999	1.6650	0.10084	0.00	------
5.65	beta-BHC	3453	2.4482e-03	1	10	0.03003	0.999	1.6650	0.81526	0.00	------
5.89	delta-BHC	1827	7.2877e-04	1	10	0.03003	0.999	1.6650	0.24268	0.00	------
6.20	Heptachlor	292	1.2077e-04	1	10	0.03003	0.999	1.6650	0.04022	0.00	------
6.63	Aldrin	2677	1.1119e-03	1	10	0.03003	0.999	1.6650	0.37025	0.00	------
7.50	Heptachlor epoxide	9501	4.3036e-03	1	10	0.03003	0.999	1.6650	1.43311	0.00	------
7.68	gamma-Chlordane	6720	2.8057e-03	1	10	0.03003	0.999	1.6650	0.93428	0.00	------
7.85	alpha-Chlordane	11083	4.4868e-03	1	10	0.03003	0.999	1.6650	1.49411	0.00	------
7.93	4,4'-DDE	4002	1.7624e-03	1	10	0.03003	0.999	3.3300	0.58689	0.00	------
8.07	Endosulfan I	3564	1.5598e-03	1	10	0.03003	0.999	1.6650	0.51940	0.00	------
8.38	Dieldrin	3170	1.4202e-03	1	10	0.03003	0.999	3.3300	0.47292	0.00	------
8.70	Endrin	3344	1.6459e-03	1	10	0.03003	0.999	3.3300	0.54809	0.00	------
8.82	4,4'-DDD	11968	6.3367e-03	1	10	0.03003	0.999	3.3300	2.11012	0.00	------
9.10	Endosulfan II	435	2.2450e-04	1	10	0.03003	0.999	3.3300	0.07476	0.00	------
9.27	4,4'-DDT	3260	1.7603e-03	1	10	0.03003	0.999	3.3300	0.58618	0.00	------
9.71	Endrin aldehyde	3163	1.9219e-03	1	10	0.03003	0.999	3.3300	0.63998	0.00	------
9.94	Methoxychlor	0	0.00000000	1	10	0.03003	0.999	----------	0.00000	--------	------
10.27	Endosulfan sulfate	961	5.6412e-04	1	10	0.03003	0.999	3.3300	0.18785	0.00	------
10.65	Endrin ketone	3177	1.4295e-03	1	10	0.03003	0.999	3.3300	0.47604	0.00	------
11.80	Decachlorobiphenyl	114486	0.06740890	1	10	0.03003	0.999	3.3300	22.44719	39.96	56.2

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:27:52
Operator	: sagers	Sample Name	: 1515542001
Sample Number	: 039	Study	: F9M21
AutoSampler	: HP7673A	Rack/Vial	: 0/39
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	: 06/20/2015 01:16:36	Dilution Factor	: 1.00
		Cycle	: 2

Raw Data File : \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619B_039.raw <Modified>
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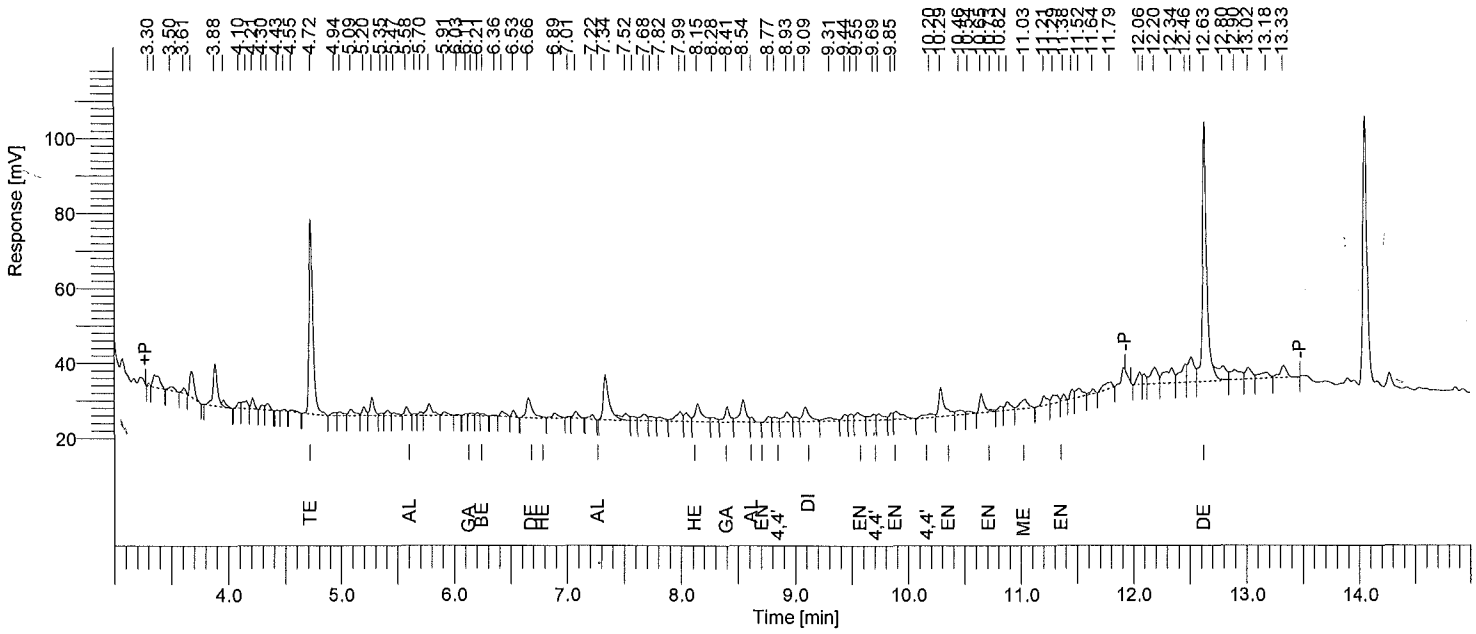

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.72	Tetrachloro-m-xylene	124363	0.03492960	1	10	0.03003	0.999	1.6650	11.63157	19.98	58.2
5.58	alpha-BHC	5486	1.2197e-03	1	10	0.03003	0.999	1.6650	0.40618	0.00	------
6.11	gamma-BHC	992	2.4291e-04	1	10	0.03003	0.999	1.6650	0.08089	0.00	------
6.25	beta-BHC	1414	6.4833e-04	1	10	0.03003	0.999	1.6650	0.21589	0.00	------
6.66	delta-BHC	20242	5.2627e-03	1	10	0.03003	0.999	1.6650	1.75248	0.00	------
6.78	Heptachlor	0	0.00000000	1	10	0.03003	0.999	---------	0.00000	--------	------
7.22	Aldrin	3142	8.7504e-04	1	10	0.03003	0.999	1.6650	0.29139	0.00	------
8.15	Heptachlor epoxide	20719	6.4526e-03	1	10	0.03003	0.999	1.6650	2.14873	0.00	------
8.41	gamma-Chlordane	12382	3.5955e-03	1	10	0.03003	0.999	1.6650	1.19730	0.00	------
8.62	alpha-Chlordane	2688	7.8059e-04	1	10	0.03003	0.999	1.6650	0.25994	0.00	------
8.70	Endosulfan I	0	0.00000000	1	10	0.03003	0.999	---------	0.00000	--------	------
8.82	4,4'-DDE	4594	1.4341e-03	1	10	0.03003	0.999	3.3300	0.47757	0.00	------
9.09	Dieldrin	15722	4.9212e-03	1	10	0.03003	0.999	3.3300	1.63875	0.00	------
9.55	Endrin	9246	3.3844e-03	1	10	0.03003	0.999	3.3300	1.12701	0.00	------
9.69	4,4'-DDD	6462	2.5506e-03	1	10	0.03003	0.999	3.3300	0.84935	0.00	------
9.89	Endosulfan II	10817	4.0618e-03	1	10	0.03003	0.999	3.3300	1.35258	0.00	------
10.20	4,4'-DDT	6807	2.5691e-03	1	10	0.03003	0.999	3.3300	0.85552	0.00	------
10.29	Endrin aldehyde	26719	0.01229114	1	10	0.03003	0.999	3.3300	4.09295	0.00	------
10.73	Endosulfan sulfate	1300	5.5712e-04	1	10	0.03003	0.999	3.3300	0.18552	0.00	------
11.03	Methoxychlor	12232	0.01016823	1	10	0.03003	0.999	16.6500	3.38602	0.00	------
11.38	Endrin ketone	3648	1.2796e-03	1	10	0.03003	0.999	3.3300	0.42611	0.00	------
12.63	Decachlorobiphenyl	187845	0.08231175	1	10	0.03003	0.999	3.3300	27.40984	39.96	68.6

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M22

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542002

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 31150619A040,31150619B040

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/20/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.067	JBP
319-85-7	beta-BHC	0.26	JP
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	0.29	JP
1024-57-3	Heptachlor epoxide	0.55	JBP
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.7	U
72-55-9	4,4'-DDE	3.7	U
72-20-8	Endrin	0.54	JP
33213-65-9	Endosulfan II	0.064	JP
72-54-8	4,4'-DDD	0.43	JP
1031-07-8	Endosulfan sulfate	0.049	JP
50-29-3	4,4'-DDT	0.20	JP
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	0.14	JP
7421-93-4	Endrin aldehyde	0.14	JBP
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	0.22	JP
8001-35-2	Toxaphene	190	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:26:11
Operator	: sagers	Sample Name	: 1515542002
Sample Number	: 040	Study	: F9M22
AutoSampler	: HP7673A	Rack/Vial	: 0/40
Instrument Name	: GCE31	Channel	: A
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	: 06/20/2015 01:16:36	Dilution Factor	: 1.00
		Cycle	: 3

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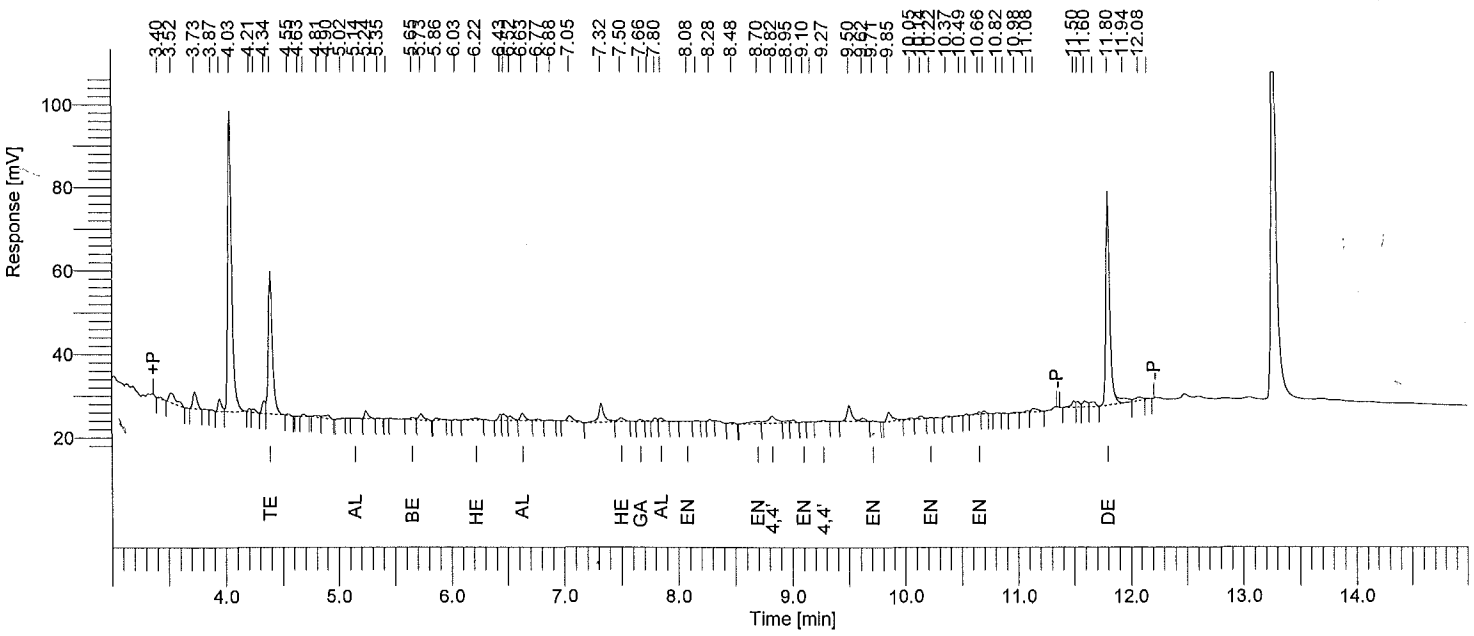

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.39	Tetrachloro-m-xylene	86758	0.03945533	1	10	0.03025	0.992	1.6529	13.04308	19.83	65.8
5.14	alpha-BHC	490	1.7661e-04	1	10	0.03025	0.992	1.6529	0.05838	0.00	------
5.56	gamma-BHC	0	0.00000000	1	10	0.03025	0.992	----------	0.00000	--------	------
5.65	beta-BHC	1570	1.1133e-03	1	10	0.03025	0.992	1.6529	0.36803	0.00	------
5.92	delta-BHC	0	0.00000000	1	10	0.03025	0.992	----------	0.00000	--------	------
6.22	Heptachlor	2605	1.0758e-03	1	10	0.03025	0.992	1.6529	0.35564	0.00	------
6.63	Aldrin	5185	2.1532e-03	1	10	0.03025	0.992	1.6529	0.71180	0.00	------
7.50	Heptachlor epoxide	3250	1.4719e-03	1	10	0.03025	0.992	1.6529	0.48659	0.00	------
7.66	gamma-Chlordane	1369	5.7146e-04	1	10	0.03025	0.992	1.6529	0.18891	0.00	------
7.85	alpha-Chlordane	2078	8.4122e-04	1	10	0.03025	0.992	1.6529	0.27809	0.00	------
7.97	4,4'-DDE	0	0.00000000	1	10	0.03025	0.992	----------	0.00000	--------	------
8.08	Endosulfan I	292	1.2797e-04	1	10	0.03025	0.992	1.6529	0.04231	0.00	------
8.40	Dieldrin	0	0.00000000	1	10	0.03025	0.992	----------	0.00000	--------	------
8.70	Endrin	4062	1.9993e-03	1	10	0.03025	0.992	3.3058	0.66093	0.00	------
8.82	4,4'-DDD	9140	4.8395e-03	1	10	0.03025	0.992	3.3058	1.59985	0.00	------
9.10	Endosulfan II	331	1.7096e-04	1	10	0.03025	0.992	3.3058	0.05652	0.00	------
9.27	4,4'-DDT	966	5.2155e-04	1	10	0.03025	0.992	3.3058	0.17241	0.00	------
9.71	Endrin aldehyde	601	3.6492e-04	1	10	0.03025	0.992	3.3058	0.12063	0.00	------
9.94	Methoxychlor	0	0.00000000	1	10	0.03025	0.992	----------	0.00000	--------	------
10.22	Endosulfan sulfate	223	1.3112e-04	1	10	0.03025	0.992	3.3058	0.04335	0.00	------
10.66	Endrin ketone	1335	6.0091e-04	1	10	0.03025	0.992	3.3058	0.19865	0.00	------
11.80	Decachlorobiphenyl	121664	0.07163546	1	10	0.03025	0.992	3.3058	23.68114	39.67	59.7

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:27:55
Operator	: sagers	Sample Name	: 1515542002
Sample Number	: 040	Study	: F9M22
AutoSampler	: HP7673A	Rack/Vial	: 0/40
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	: 06/20/2015 01:36:58	Dilution Factor	: 1.00
		Cycle	: 3

Raw Data File : \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619B_040.raw <Modified>
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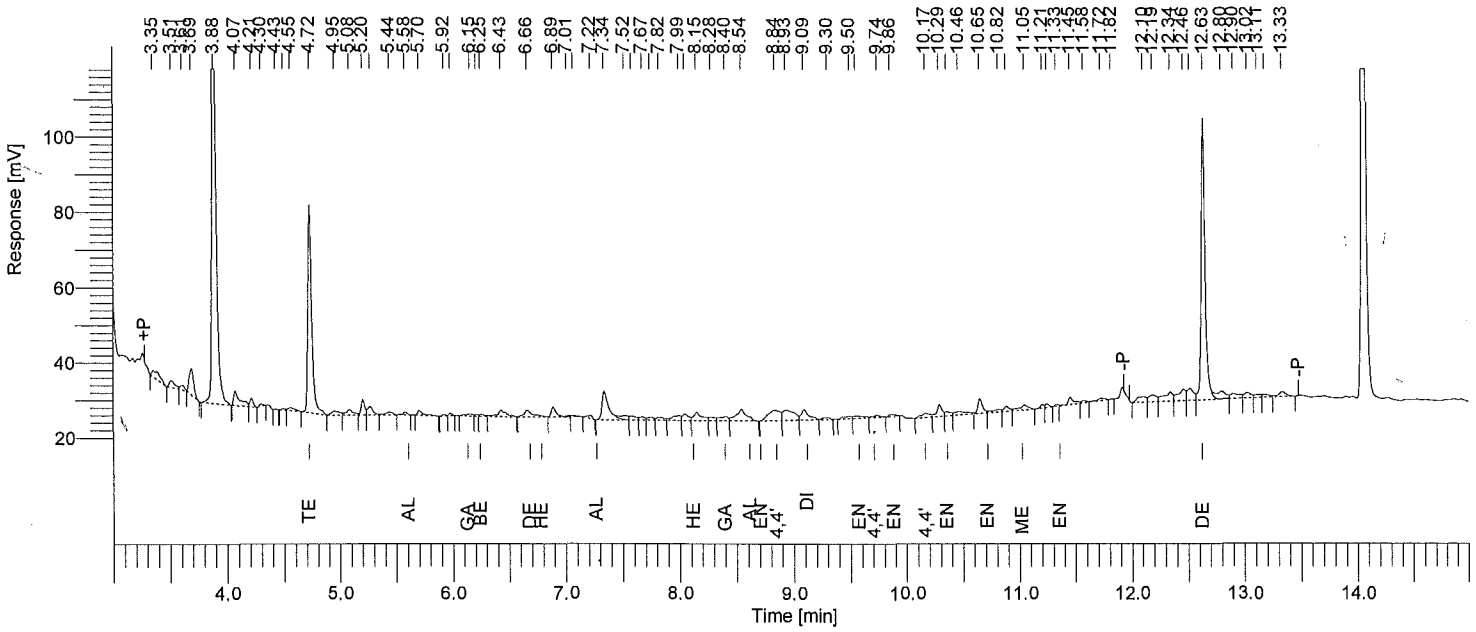

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.72	Tetrachloro-m-xylene	133416	0.03747229	1	10	0.03025	0.992	1.6529	12.38753	19.83	62.5
5.58	alpha-BHC	2323	5.1654e-04	1	10	0.03025	0.992	1.6529	0.17076	0.00	------
6.15	gamma-BHC	2514	6.1539e-04	1	10	0.03025	0.992	1.6529	0.20343	0.00	------
6.25	beta-BHC	1516	6.9501e-04	1	10	0.03025	0.992	1.6529	0.22976	0.00	------
6.66	delta-BHC	9727	2.5290e-03	1	10	0.03025	0.992	1.6529	0.83604	0.00	------
6.78	Heptachlor	0	0.00000000	1	10	0.03025	0.992	---------	0.00000	--------	------
7.22	Aldrin	2720	7.5749e-04	1	10	0.03025	0.992	1.6529	0.25041	0.00	------
8.15	Heptachlor epoxide	11332	3.5292e-03	1	10	0.03025	0.992	1.6529	1.16668	0.00	------
8.40	gamma-Chlordane	5950	1.7279e-03	1	10	0.03025	0.992	1.6529	0.57119	0.00	------
8.61	alpha-Chlordane	0	0.00000000	1	10	0.03025	0.992	---------	0.00000	--------	------
8.70	Endosulfan I	0	0.00000000	1	10	0.03025	0.992	---------	0.00000	--------	------
8.84	4,4'-DDE	20536	6.4111e-03	1	10	0.03025	0.992	3.3058	2.11937	0.00	------
9.09	Dieldrin	12648	3.9590e-03	1	10	0.03025	0.992	3.3058	1.30878	0.00	------
9.55	Endrin	3913	1.4321e-03	1	10	0.03025	0.992	3.3058	0.47343	0.00	------
9.74	4,4'-DDD	2918	1.1516e-03	1	10	0.03025	0.992	3.3058	0.38071	0.00	------
9.86	Endosulfan II	2491	9.3547e-04	1	10	0.03025	0.992	3.3058	0.30925	0.00	------
10.17	4,4'-DDT	6329	2.3888e-03	1	10	0.03025	0.992	3.3058	0.78968	0.00	------
10.36	Endrin aldehyde	4256	1.9579e-03	1	10	0.03025	0.992	3.3058	0.64724	0.00	------
10.65	Endosulfan sulfate	11138	4.7739e-03	1	10	0.03025	0.992	3.3058	1.57813	0.00	------
11.05	Methoxychlor	7318	6.0834e-03	1	10	0.03025	0.992	16.5289	2.01105	0.00	------
11.33	Endrin ketone	1044	3.6620e-04	1	10	0.03025	0.992	3.3058	0.12106	0.00	------
12.63	Decachlorobiphenyl	182983	0.08018140	1	10	0.03025	0.992	3.3058	26.50625	39.67	66.8

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M23

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542003

Sample wt/vol: 30.5 (g/mL) g Lab File ID: 31150619A041,31150619B041

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/20/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 5.0

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	1.2	JBP
319-85-7	beta-BHC	9.8	U
319-86-8	delta-BHC	9.8	U
58-89-9	gamma-BHC (Lindane)	0.19	JP
76-44-8	Heptachlor	9.8	U
309-00-2	Aldrin	9.8	U
1024-57-3	Heptachlor epoxide	2.6	JBP
959-98-8	Endosulfan I	3.4	JP
60-57-1	Dieldrin	19.	U
72-55-9	4,4'-DDE	10.	JP
72-20-8	Endrin	4.4	JP
33213-65-9	Endosulfan II	19.	U
72-54-8	4,4'-DDD	1.7	JP
1031-07-8	Endosulfan sulfate	8.0	JP
50-29-3	4,4'-DDT	8.6	JP
72-43-5	Methoxychlor	98.	U
53494-70-5	Endrin ketone	16.	JP
7421-93-4	Endrin aldehyde	5.1	JBP
5103-71-9	alpha-Chlordane	9.8	U
5103-74-2	gamma-Chlordane	2.8	JP
8001-35-2	Toxaphene	980	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:26:13
Operator	: sagers	Sample Name	: 1515542003
Sample Number	: 041	Study	: F9M23
AutoSampler	: HP7673A	Rack/Vial	: 0/41
Instrument Name	: GCE31	Channel	: A
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	: 06/20/2015 01:36:58	Dilution Factor	: 5.00
		Cycle	: 4

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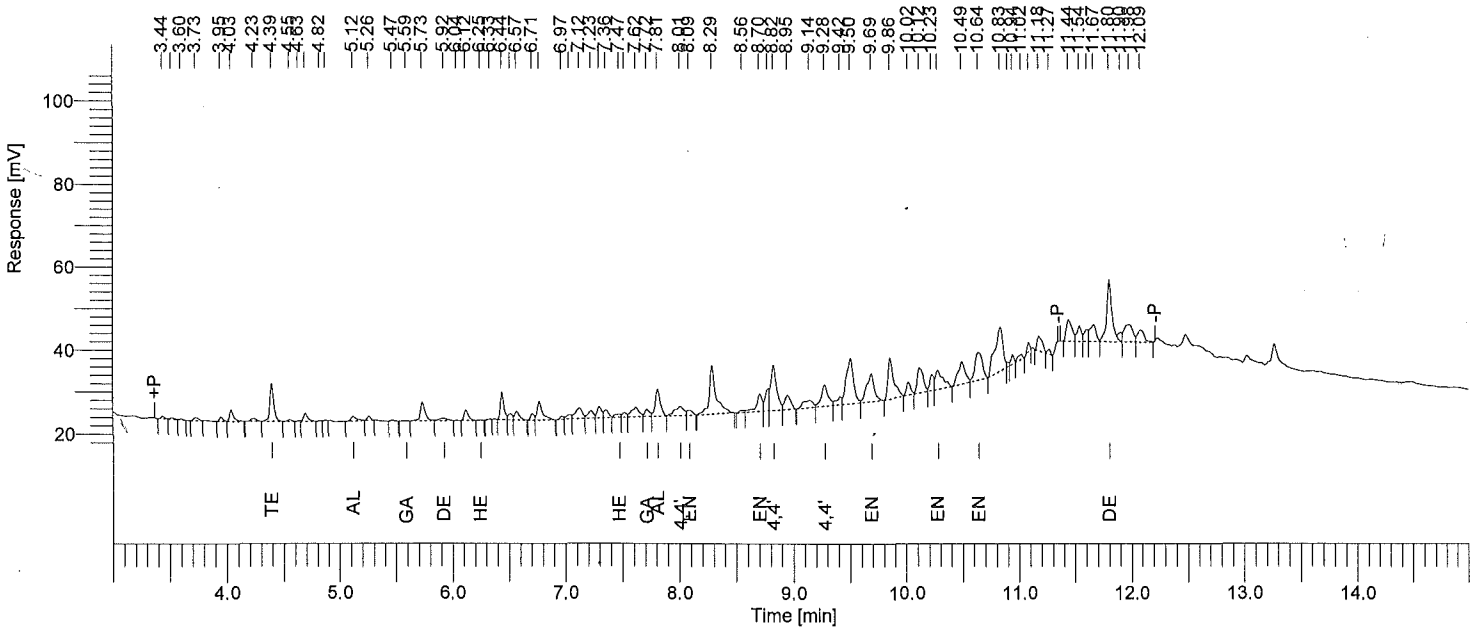
Report Format File: \\Alsltws012\TCCS\sagers\GCE31\31150618\31_RPT_2UL\31_som_soil_sample_a.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619_SOM012_PEST_F9M21_A.seq



Instrument ID: GC31A 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 %
4.39	Tetrachloro-m-xylene	21796	9.9124e-03	5	10	0.03046	4.924	8.2075	16.27120	19.70	82.6
5.12	alpha-BHC	3981	1.4334e-03	5	10	0.03046	4.924	8.2075	2.35297	0.00	------
5.59	gamma-BHC	250	9.6408e-05	5	10	0.03046	4.924	8.2075	0.15825	0.00	------
5.67	beta-BHC	0	0.00000000	5	10	0.03046	4.924	----------	0.00000	--------	------
5.92	delta-BHC	3283	1.3098e-03	5	10	0.03046	4.924	8.2075	2.15006	0.00	------
6.25	Heptachlor	282	1.1662e-04	5	10	0.03046	4.924	8.2075	0.19142	0.00	------
6.63	Aldrin	0	0.00000000	5	10	0.03046	4.924	----------	0.00000	--------	------
7.47	Heptachlor epoxide	3016	1.3661e-03	5	10	0.03046	4.924	8.2075	2.24242	0.00	------
7.72	gamma-Chlordane	5133	2.1432e-03	5	10	0.03046	4.924	8.2075	3.51800	0.00	------
7.81	alpha-Chlordane	19960	8.0807e-03	5	10	0.03046	4.924	8.2075	13.26450	0.00	------
8.01	4,4'-DDE	11872	5.2275e-03	5	10	0.03046	4.924	16.4150	8.58091	0.00	------
8.09	Endosulfan I	4078	1.7849e-03	5	10	0.03046	4.924	8.2075	2.92996	0.00	------
8.40	Dieldrin	0	0.00000000	5	10	0.03046	4.924	----------	0.00000	--------	------
8.70	Endrin	14749	7.2600e-03	5	10	0.03046	4.924	16.4150	11.91729	0.00	------
8.82	4,4'-DDD	39859	0.02110459	5	10	0.03046	4.924	16.4150	34.64312	0.00	------
9.06	Endosulfan II	0	0.00000000	5	10	0.03046	4.924	----------	0.00000	--------	------
9.28	4,4'-DDT	21921	0.01183557	5	10	0.03046	4.924	16.4150	19.42806	0.00	------
9.69	Endrin aldehyde	31779	0.01931125	5	10	0.03046	4.924	16.4150	31.69936	0.00	------
9.94	Methoxychlor	0	0.00000000	5	10	0.03046	4.924	----------	0.00000	--------	------
10.28	Endosulfan sulfate	21479	0.01260862	5	10	0.03046	4.924	16.4150	20.69702	0.00	------
10.64	Endrin ketone	30463	0.01370790	5	10	0.03046	4.924	16.4150	22.50148	0.00	------
11.80	Decachlorobiphenyl	48467	0.02853721	5	10	0.03046	4.924	16.4150	46.84374	39.40	118.9

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:27:57
Operator	: sagers	Sample Name	: 1515542003
Sample Number	: 041	Study	: F9M23
AutoSampler	: HP7673A	Rack/Vial	: 0/41
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	: 06/20/2015 01:57:10	Dilution Factor	: 5.00
		Cycle	: 4

Raw Data File : \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619B_041.raw <Modified>
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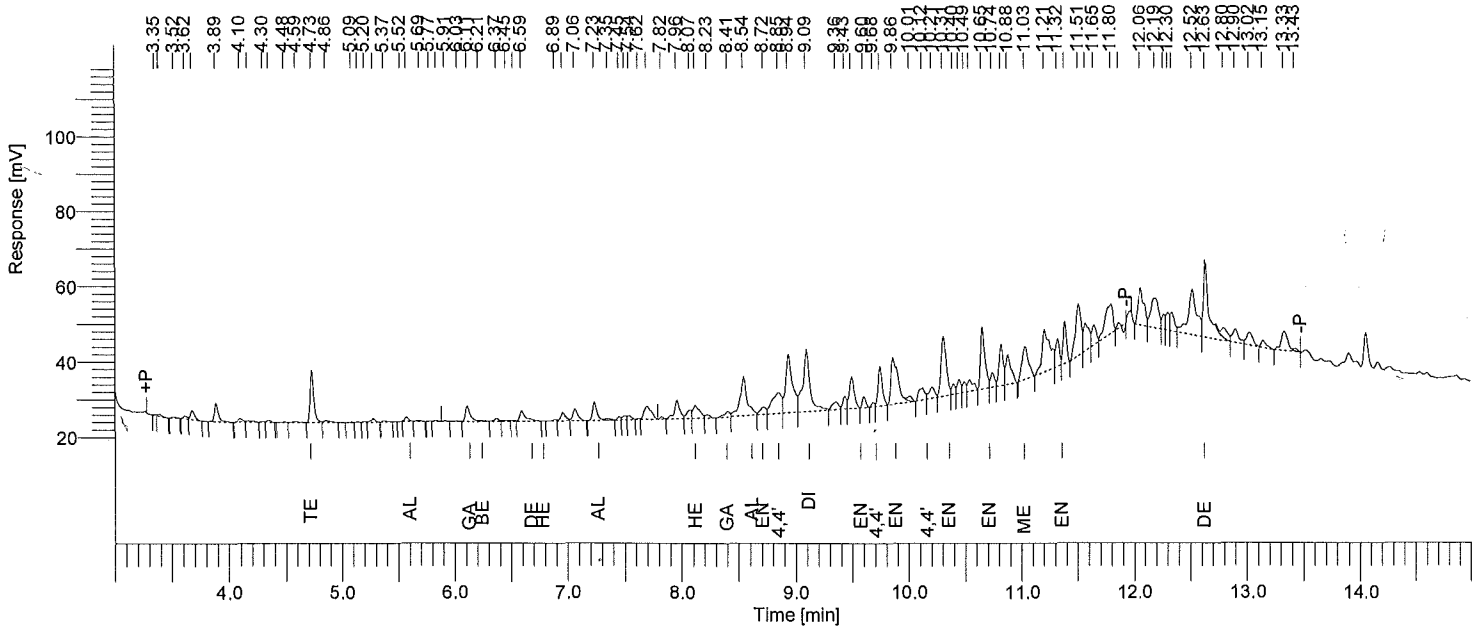
Report Format File: \\Alsltws012\TCCS\sagers\GCE31\31150618\31_RPT_2UL\31_som_soil_sample_b.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619_SOM012_PEST_F9M21_A.seq



Instrument ID: GC31B 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 %
4.73	Tetrachloro-m-xylene	31262	8.7807e-03	5	10	0.03046	4.924	8.2075	14.41342	19.70	73.2
5.57	alpha-BHC	2865	6.3705e-04	5	10	0.03046	4.924	8.2075	1.04571	0.00	------
6.11	gamma-BHC	11882	2.9087e-03	5	10	0.03046	4.924	8.2075	4.77470	0.00	------
6.21	beta-BHC	889	4.0748e-04	5	10	0.03046	4.924	8.2075	0.66888	0.00	------
6.68	delta-BHC	0	0.00000000	5	10	0.03046	4.924	---------	0.00000	--------	------
6.78	Heptachlor	0	0.00000000	5	10	0.03046	4.924	---------	0.00000	--------	------
7.23	Aldrin	12960	3.6092e-03	5	10	0.03046	4.924	8.2075	5.92457	0.00	------
8.12	Heptachlor epoxide	13916	4.3338e-03	5	10	0.03046	4.924	8.2075	7.11395	0.00	------
8.41	gamma-Chlordane	5066	1.4712e-03	5	10	0.03046	4.924	8.2075	2.41495	0.00	------
8.61	alpha-Chlordane	0	0.00000000	5	10	0.03046	4.924	---------	0.00000	--------	------
8.72	Endosulfan I	7204	2.3518e-03	5	10	0.03046	4.924	8.2075	3.86044	0.00	------
8.85	4,4'-DDE	32816	0.01024488	5	10	0.03046	4.924	16.4150	16.81694	0.00	------
9.09	Dieldrin	73482	0.02300150	5	10	0.03046	4.924	16.4150	37.75690	0.00	------
9.60	Endrin	6203	2.2704e-03	5	10	0.03046	4.924	16.4150	3.72689	0.00	------
9.68	4,4'-DDD	2182	8.6104e-04	5	10	0.03046	4.924	16.4150	1.41339	0.00	------
9.86	Endosulfan II	54933	0.02062659	5	10	0.03046	4.924	16.4150	33.85849	0.00	------
10.12	4,4'-DDT	11852	4.4734e-03	5	10	0.03046	4.924	16.4150	7.34311	0.00	------
10.40	Endrin aldehyde	5770	2.6542e-03	5	10	0.03046	4.924	16.4150	4.35688	0.00	------
10.74	Endosulfan sulfate	9717	4.1648e-03	5	10	0.03046	4.924	16.4150	6.83649	0.00	------
11.03	Methoxychlor	34922	0.02903090	5	10	0.03046	4.924	82.0749	47.65413	0.00	------
11.39	Endrin ketone	24277	8.5159e-03	5	10	0.03046	4.924	16.4150	13.97881	0.00	------
12.63	Decachlorobiphenyl	72858	0.03192562	5	10	0.03046	4.924	16.4150	52.40581	39.40	133.0

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M24

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542004

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 31150619A042,31150619B042

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/20/2015

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	0.27	JBP
319-85-7	beta-BHC	0.31	JP
319-86-8	delta-BHC	0.30	JBP
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	0.11	JP
1024-57-3	Heptachlor epoxide	0.22	JBP
959-98-8	Endosulfan I	0.31	J
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	0.39	JP
72-20-8	Endrin	0.43	JP
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	1.9	JP
1031-07-8	Endosulfan sulfate	0.84	JP
50-29-3	4,4'-DDT	0.74	JP
72-43-5	Methoxychlor	20.	U
53494-70-5	Endrin ketone	1.3	JP
7421-93-4	Endrin aldehyde	0.62	JBP
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	0.29	JP
8001-35-2	Toxaphene	200	U

Software Version	: 6.3,1.0504	Date	: 06/20/2015 09:26:15
Operator	: sagers	Sample Name	: 1515542004
Sample Number	: 042	Study	: F9M24
AutoSampler	: HP7673A	Rack/Vial	: 0/42
Instrument Name	: GCE31	Channel	: A
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	: 06/20/2015 01:57:10	Dilution Factor	: 1.00
		Cycle	: 5

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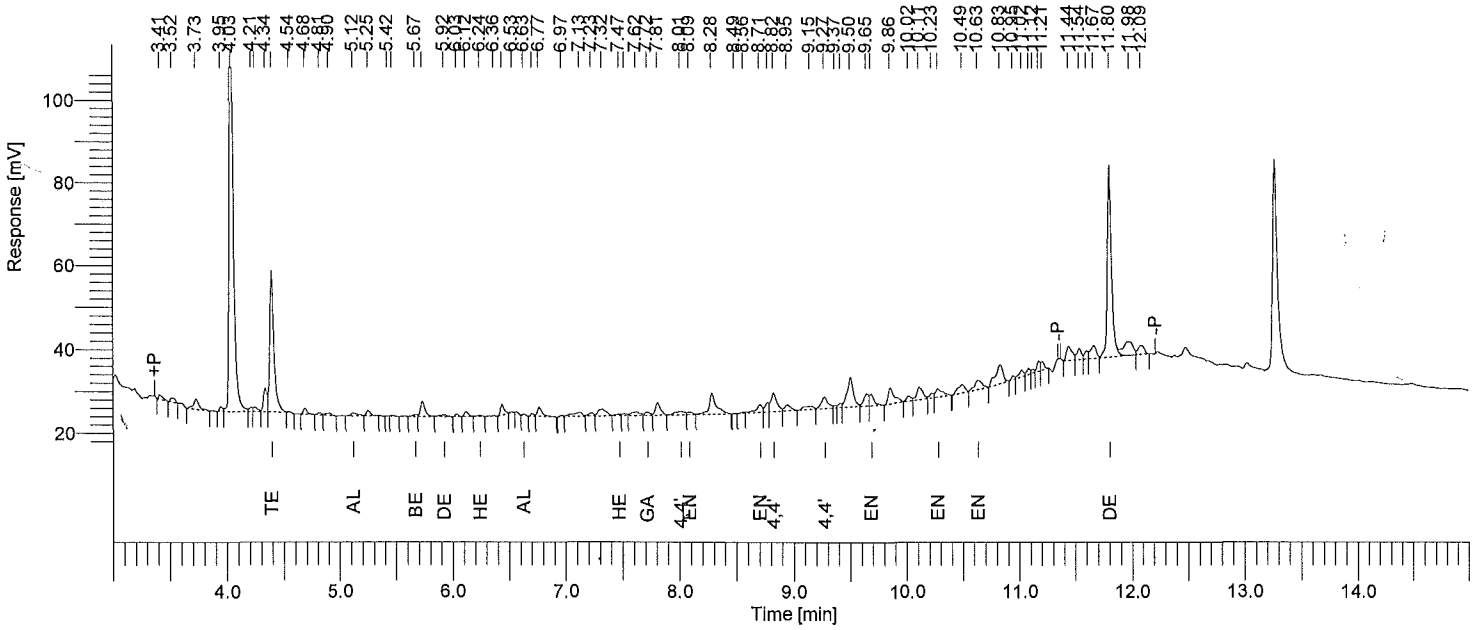

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.39	Tetrachloro-m-xylene	86816	0.03948191	1	10	0.03025	0.992	1.6529	13.05187	19.83	65.8
5.12	alpha-BHC	2954	1.0635e-03	1	10	0.03025	0.992	1.6529	0.35159	0.00	------
5.56	gamma-BHC	0	0.00000000	1	10	0.03025	0.992	----------	0.00000	--------	------
5.67	beta-BHC	1117	7.9221e-04	1	10	0.03025	0.992	1.6529	0.26189	0.00	------
5.92	delta-BHC	1937	7.7281e-04	1	10	0.03025	0.992	1.6529	0.25547	0.00	------
6.24	Heptachlor	1121	4.6312e-04	1	10	0.03025	0.992	1.6529	0.15310	0.00	------
6.63	Aldrin	704	2.9225e-04	1	10	0.03025	0.992	1.6529	0.09661	0.00	------
7.47	Heptachlor epoxide	1271	5.7579e-04	1	10	0.03025	0.992	1.6529	0.19034	0.00	------
7.72	gamma-Chlordane	2394	9.9973e-04	1	10	0.03025	0.992	1.6529	0.33049	0.00	------
7.86	alpha-Chlordane	0	0.00000000	1	10	0.03025	0.992	----------	0.00000	--------	------
8.01	4,4'-DDE	4844	2.1331e-03	1	10	0.03025	0.992	3.3058	0.70515	0.00	------
8.09	Endosulfan I	2005	8.7752e-04	1	10	0.03025	0.992	1.6529	0.29009	0.00	------
8.40	Dieldrin	0	0.00000000	1	10	0.03025	0.992	----------	0.00000	--------	------
8.71	Endrin	7131	3.5101e-03	1	10	0.03025	0.992	3.3058	1.16038	0.00	------
8.82	4,4'-DDD	16627	8.8035e-03	1	10	0.03025	0.992	3.3058	2.91026	0.00	------
9.06	Endosulfan II	0	0.00000000	1	10	0.03025	0.992	----------	0.00000	--------	------
9.27	4,4'-DDT	11711	6.3226e-03	1	10	0.03025	0.992	3.3058	2.09013	0.00	------
9.68	Endrin aldehyde	7944	4.8276e-03	1	10	0.03025	0.992	3.3058	1.59589	0.00	------
9.94	Methoxychlor	0	0.00000000	1	10	0.03025	0.992	----------	0.00000	--------	------
10.28	Endosulfan sulfate	8931	5.2424e-03	1	10	0.03025	0.992	3.3058	1.73303	0.00	------
10.63	Endrin ketone	10830	4.8732e-03	1	10	0.03025	0.992	3.3058	1.61097	0.00	------
11.80	Decachlorobiphenyl	118127	0.06955247	1	10	0.03025	0.992	3.3058	22.99255	39.67	58.0

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:27:59
Operator	: sagers	Sample Name	: 1515542004
Sample Number	: 042	Study	: F9M24
AutoSampler	: HP7673A	Rack/Vial	: 0/42
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	: 06/20/2015 02:17:22	Dilution Factor	: 1.00
		Cycle	: 5

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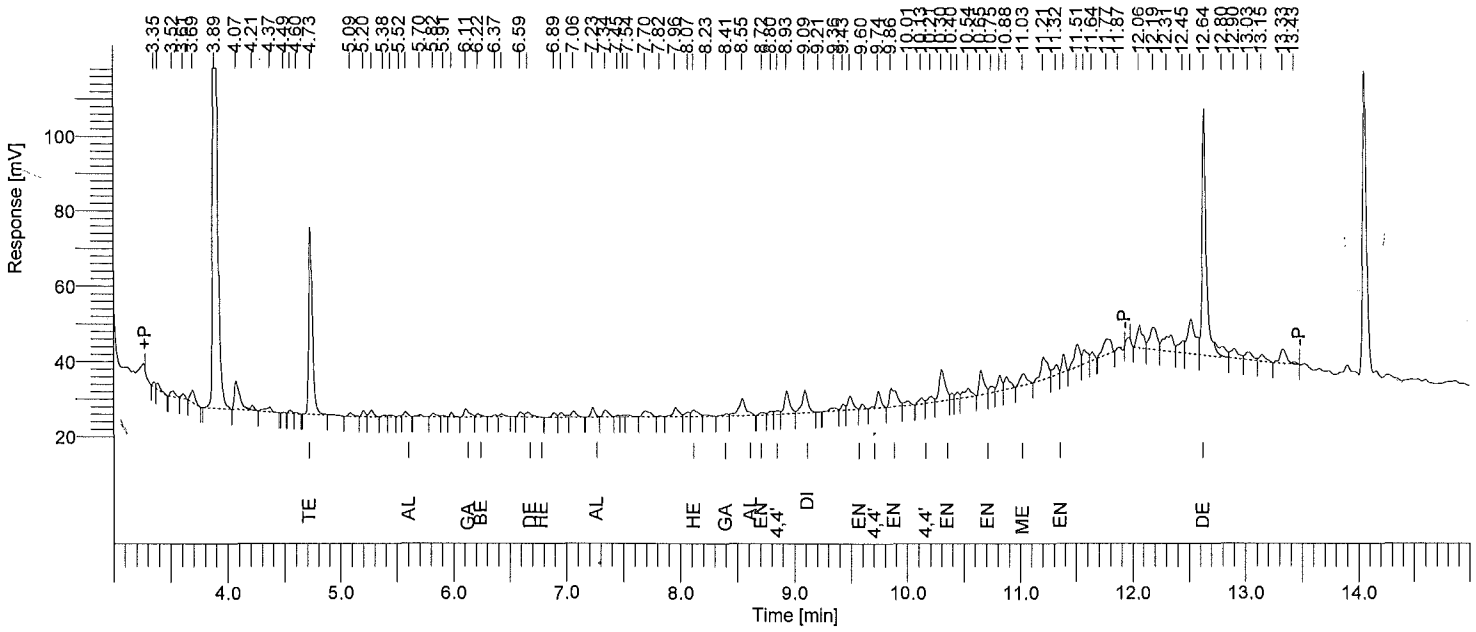

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.73	Tetrachloro-m-xylene	113758	0.03195093	1	10	0.03025	0.992	1.6529	10.56229	19.83	53.3
5.58	alpha-BHC	3147	6.9976e-04	1	10	0.03025	0.992	1.6529	0.23133	0.00	------
6.11	gamma-BHC	7205	1.7637e-03	1	10	0.03025	0.992	1.6529	0.58304	0.00	------
6.22	beta-BHC	2532	1.1607e-03	1	10	0.03025	0.992	1.6529	0.38369	0.00	------
6.66	delta-BHC	5117	1.3303e-03	1	10	0.03025	0.992	1.6529	0.43978	0.00	------
6.78	Heptachlor	0	0.00000000	1	10	0.03025	0.992	---------	0.00000	--------	------
7.23	Aldrin	6028	1.6789e-03	1	10	0.03025	0.992	1.6529	0.55500	0.00	------
8.12	Heptachlor epoxide	7348	2.2884e-03	1	10	0.03025	0.992	1.6529	0.75649	0.00	------
8.41	gamma-Chlordane	2602	7.5570e-04	1	10	0.03025	0.992	1.6529	0.24982	0.00	------
8.61	alpha-Chlordane	0	0.00000000	1	10	0.03025	0.992	---------	0.00000	--------	------
8.72	Endosulfan I	2432	7.9401e-04	1	10	0.03025	0.992	1.6529	0.26248	0.00	------
8.85	4,4'-DDE	3206	1.0010e-03	1	10	0.03025	0.992	3.3058	0.33090	0.00	------
9.09	Dieldrin	21839	6.8361e-03	1	10	0.03025	0.992	3.3058	2.25986	0.00	------
9.60	Endrin	3017	1.1045e-03	1	10	0.03025	0.992	3.3058	0.36511	0.00	------
9.74	4,4'-DDD	12672	5.0015e-03	1	10	0.03025	0.992	3.3058	1.65340	0.00	------
9.86	Endosulfan II	22929	8.6097e-03	1	10	0.03025	0.992	3.3058	2.84619	0.00	------
10.13	4,4'-DDT	5045	1.9042e-03	1	10	0.03025	0.992	3.3058	0.62949	0.00	------
10.40	Endrin aldehyde	3477	1.5995e-03	1	10	0.03025	0.992	3.3058	0.52877	0.00	------
10.75	Endosulfan sulfate	5062	2.1695e-03	1	10	0.03025	0.992	3.3058	0.71720	0.00	------
11.03	Methoxychlor	12821	0.01065831	1	10	0.03025	0.992	16.5289	3.52341	0.00	------
11.32	Endrin ketone	9399	3.2968e-03	1	10	0.03025	0.992	3.3058	1.08984	0.00	------
12.64	Decachlorobiphenyl	173397	0.07598056	1	10	0.03025	0.992	3.3058	25.11754	39.67	63.3

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M25

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542005

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 31150619A043,31150619B043

% Moisture: 24. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/20/2015

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	0.30	JBP
319-85-7	beta-BHC	0.49	JP
319-86-8	delta-BHC	0.13	JBP
58-89-9	gamma-BHC (Lindane)	0.12	JP
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	0.17	JP
1024-57-3	Heptachlor epoxide	2.0	JBP
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	1.9	JBP
72-55-9	4,4'-DDE	0.51	JP
72-20-8	Endrin	0.058	JP
33213-65-9	Endosulfan II	4.3	U
72-54-8	4,4'-DDD	2.0	JP
1031-07-8	Endosulfan sulfate	4.3	U
50-29-3	4,4'-DDT	0.85	JP
72-43-5	Methoxychlor	22.	U
53494-70-5	Endrin ketone	1.2	J
7421-93-4	Endrin aldehyde	2.0	JBP
5103-71-9	alpha-Chlordane	0.55	JP
5103-74-2	gamma-Chlordane	1.2	JP
8001-35-2	Toxaphene	220	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:26:17
Operator	: sagers	Sample Name	: 1515542005
Sample Number	: 043	Study	: F9M25
AutoSampler	: HP7673A	Rack/Vial	: 0/43
Instrument Name	: GCE31	Channel	: A
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	: 06/20/2015 02:17:22	Dilution Factor	: 1.00
		Cycle	: 6

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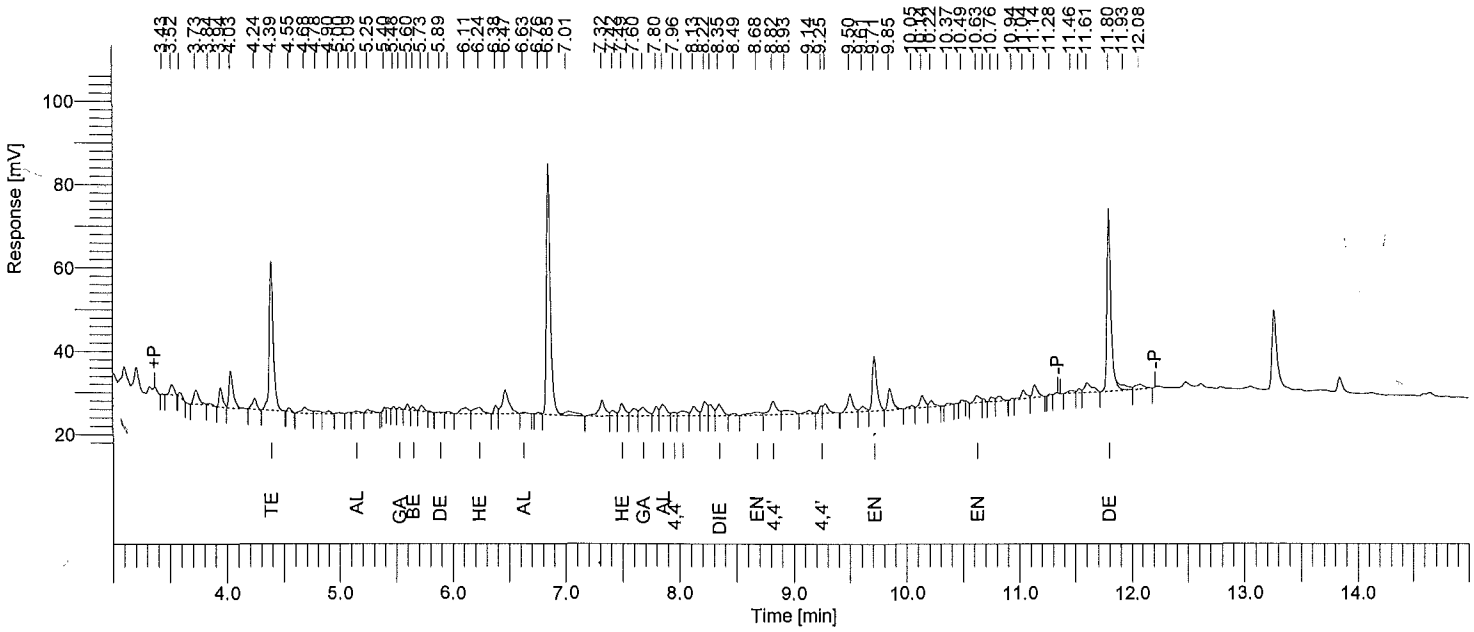

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.39	Tetrachloro-m-xylene	89957	0.04091004	1	10	0.03036	0.988	1.6469	13.47498	19.76	68.2
5.15	alpha-BHC	1952	7.0303e-04	1	10	0.03036	0.988	1.6469	0.23157	0.00	------
5.53	gamma-BHC	702	2.7039e-04	1	10	0.03036	0.988	1.6469	0.08906	0.00	------
5.65	beta-BHC	1594	1.1302e-03	1	10	0.03036	0.988	1.6469	0.37225	0.00	------
5.89	delta-BHC	780	3.1116e-04	1	10	0.03036	0.988	1.6469	0.10249	0.00	------
6.24	Heptachlor	8506	3.5127e-03	1	10	0.03036	0.988	1.6469	1.15701	0.00	------
6.63	Aldrin	922	3.8281e-04	1	10	0.03036	0.988	1.6469	0.12609	0.00	------
7.49	Heptachlor epoxide	10057	4.5552e-03	1	10	0.03036	0.988	1.6469	1.50040	0.00	------
7.68	gamma-Chlordane	9385	3.9183e-03	1	10	0.03036	0.988	1.6469	1.29060	0.00	------
7.86	alpha-Chlordane	10666	4.3182e-03	1	10	0.03036	0.988	1.6469	1.42232	0.00	------
7.96	4,4'-DDE	2676	1.1785e-03	1	10	0.03036	0.988	3.2938	0.38817	0.00	------
8.03	Endosulfan I	5992	2.6225e-03	1	10	0.03036	0.988	1.6469	0.86381	0.00	------
8.35	Dieldrin	9918	4.4435e-03	1	10	0.03036	0.988	3.2938	1.46361	0.00	------
8.68	Endrin	5770	2.8404e-03	1	10	0.03036	0.988	3.2938	0.93556	0.00	------
8.82	4,4'-DDD	13970	7.3971e-03	1	10	0.03036	0.988	3.2938	2.43645	0.00	------
9.06	Endosulfan II	0	0.00000000	1	10	0.03036	0.988	----------	0.00000	--------	------
9.25	4,4'-DDT	3657	1.9746e-03	1	10	0.03036	0.988	3.2938	0.65040	0.00	------
9.71	Endrin aldehyde	36967	0.02246381	1	10	0.03036	0.988	3.2938	7.39915	0.00	------
9.94	Methoxychlor	0	0.00000000	1	10	0.03036	0.988	----------	0.00000	--------	------
10.29	Endosulfan sulfate	0	0.00000000	1	10	0.03036	0.988	----------	0.00000	--------	------
10.63	Endrin ketone	5949	2.6770e-03	1	10	0.03036	0.988	3.2938	0.88174	0.00	------
11.80	Decachlorobiphenyl	106331	0.06260729	1	10	0.03036	0.988	3.2938	20.62164	39.53	52.2

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:28:01
Operator	: sagers	Sample Name	: 1515542005
Sample Number	: 043	Study	: F9M25
AutoSampler	: HP7673A	Rack/Vial	: 0/43
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	: 06/20/2015 02:37:32	Dilution Factor	: 1.00
		Cycle	: 6

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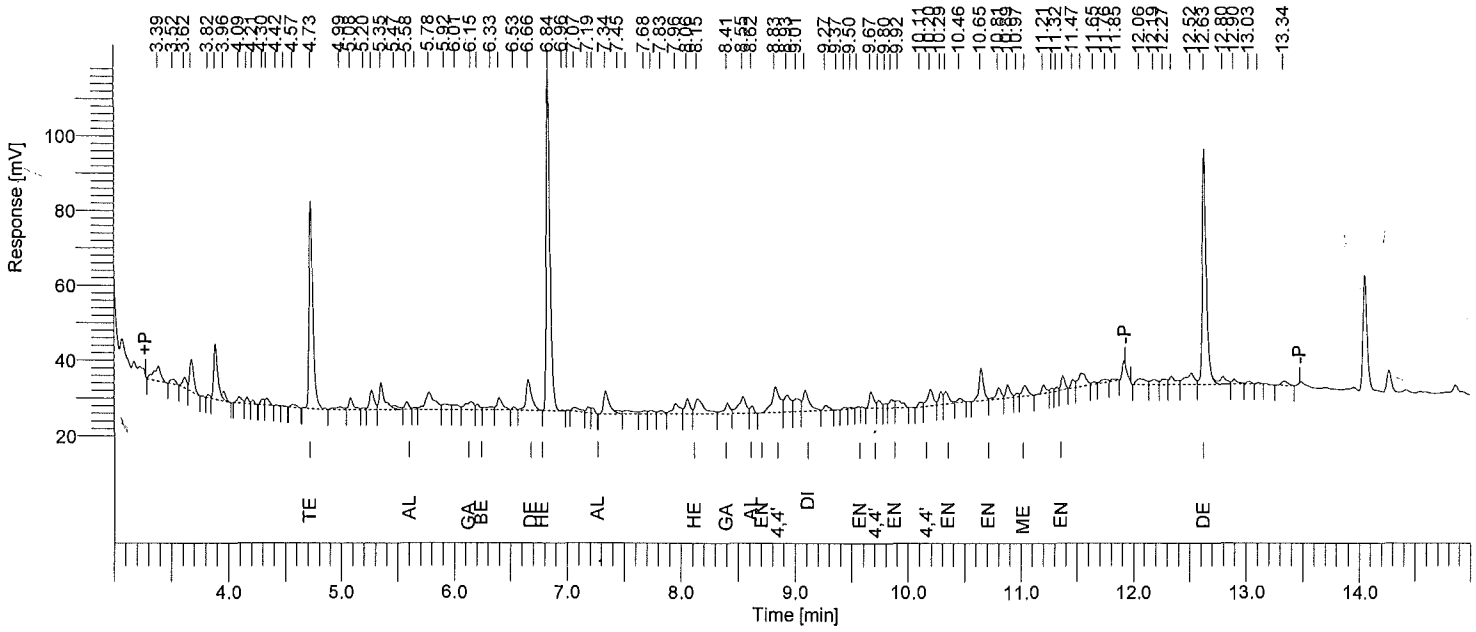

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.73	Tetrachloro-m-xylene	129278	0.03631006	1	10	0.03036	0.988	1.6469	11.95983	19.76	60.5
5.58	alpha-BHC	5086	1.1308e-03	1	10	0.03036	0.988	1.6469	0.37248	0.00	------
6.15	gamma-BHC	11174	2.7355e-03	1	10	0.03036	0.988	1.6469	0.90101	0.00	------
6.21	beta-BHC	3537	1.6212e-03	1	10	0.03036	0.988	1.6469	0.53399	0.00	------
6.66	delta-BHC	27636	7.1850e-03	1	10	0.03036	0.988	1.6469	2.36659	0.00	------
6.78	Heptachlor	0	0.00000000	1	10	0.03036	0.988	---------	0.00000	--------	------
7.22	Aldrin	3098	8.6285e-04	1	10	0.03036	0.988	1.6469	0.28421	0.00	------
8.15	Heptachlor epoxide	22335	6.9559e-03	1	10	0.03036	0.988	1.6469	2.29115	0.00	------
8.41	gamma-Chlordane	9722	2.8231e-03	1	10	0.03036	0.988	1.6469	0.92988	0.00	------
8.62	alpha-Chlordane	4340	1.2605e-03	1	10	0.03036	0.988	1.6469	0.41517	0.00	------
8.70	Endosulfan I	0	0.00000000	1	10	0.03036	0.988	---------	0.00000	--------	------
8.83	4,4'-DDE	33215	0.01036951	1	10	0.03036	0.988	3.2938	3.41552	0.00	------
9.09	Dieldrin	22275	6.9726e-03	1	10	0.03036	0.988	3.2938	2.29664	0.00	------
9.56	Endrin	364	1.3332e-04	1	10	0.03036	0.988	3.2938	0.04391	0.00	------
9.67	4,4'-DDD	11972	4.7250e-03	1	10	0.03036	0.988	3.2938	1.55633	0.00	------
9.85	Endosulfan II	6781	2.5462e-03	1	10	0.03036	0.988	3.2938	0.83866	0.00	------
10.20	4,4'-DDT	15383	5.8059e-03	1	10	0.03036	0.988	3.2938	1.91234	0.00	------
10.34	Endrin aldehyde	10002	4.6010e-03	1	10	0.03036	0.988	3.2938	1.51550	0.00	------
10.65	Endosulfan sulfate	23130	9.9134e-03	1	10	0.03036	0.988	3.2938	3.26530	0.00	------
11.04	Methoxychlor	10066	8.3675e-03	1	10	0.03036	0.988	16.4690	2.75611	0.00	------
11.38	Endrin ketone	8694	3.0495e-03	1	10	0.03036	0.988	3.2938	1.00445	0.00	------
12.63	Decachlorobiphenyl	153674	0.06733822	1	10	0.03036	0.988	3.2938	22.17991	39.53	56.1

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M26

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542006

Sample wt/vol: 30.4 (g/mL) g Lab File ID: 31150619A044,31150619B044

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/20/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.20	JBP
319-85-7	beta-BHC	0.23	JP
319-86-8	delta-BHC	0.23	JBP
58-89-9	gamma-BHC (Lindane)	0.11	JP
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	0.29	JP
1024-57-3	Heptachlor epoxide	1.6	JBP
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	1.8	JB
72-55-9	4,4'-DDE	0.51	JP
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	0.16	J
72-54-8	4,4'-DDD	0.47	JP
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	0.41	JP
72-43-5	Methoxychlor	20.	U
53494-70-5	Endrin ketone	1.3	J
7421-93-4	Endrin aldehyde	0.43	JBP
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	0.68	JP
8001-35-2	Toxaphene	200	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:26:19
Operator	: sagers	Sample Name	: 1515542006
Sample Number	: 044	Study	: F9M26
AutoSampler	: HP7673A	Rack/Vial	: 0/44
Instrument Name	: GCE31	Channel	: A
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	: 06/20/2015 02:37:32	Dilution Factor	: 1.00
		Cycle	: 7

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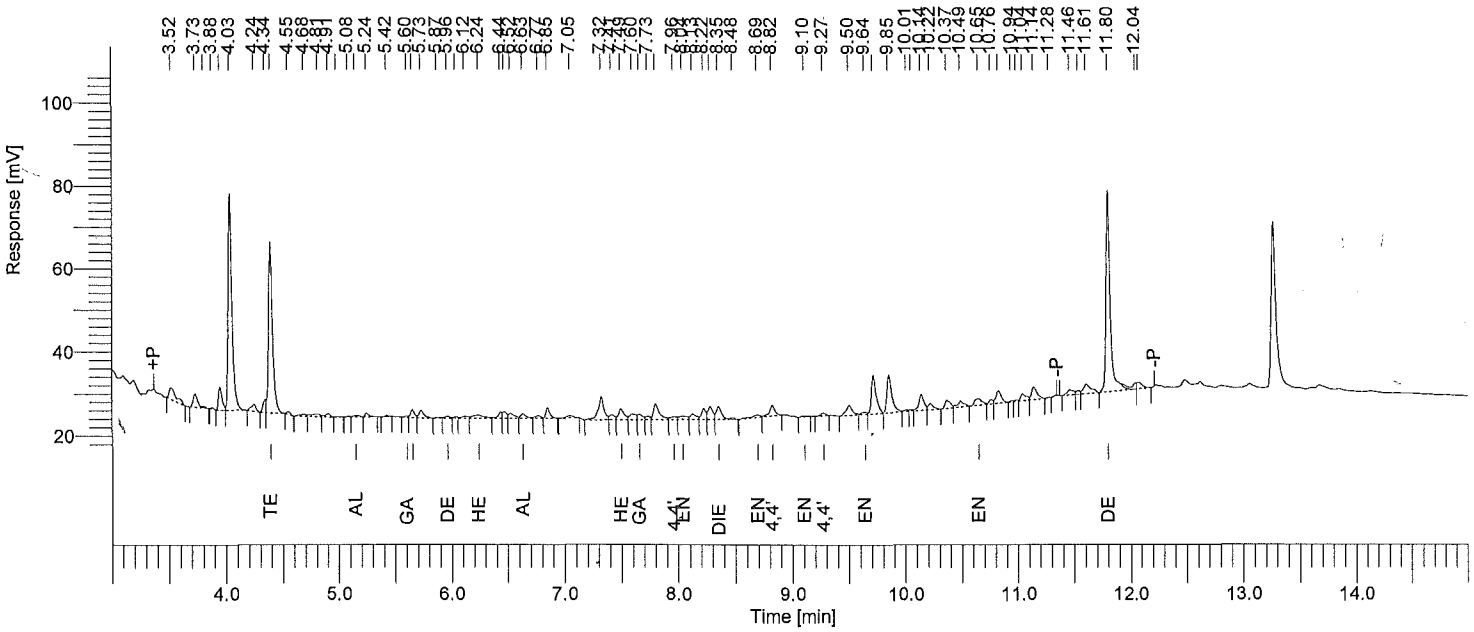

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.39	Tetrachloro-m-xylene	101793	0.04629285	1	10	0.03010	0.997	1.6611	15.37968	19.93	77.2
5.15	alpha-BHC	1457	5.2450e-04	1	10	0.03010	0.997	1.6611	0.17425	0.00	------
5.60	gamma-BHC	708	2.7300e-04	1	10	0.03010	0.997	1.6611	0.09070	0.00	------
5.65	beta-BHC	4493	3.1850e-03	1	10	0.03010	0.997	1.6611	1.05815	0.00	------
5.96	delta-BHC	1481	5.9100e-04	1	10	0.03010	0.997	1.6611	0.19635	0.00	------
6.24	Heptachlor	5293	2.1856e-03	1	10	0.03010	0.997	1.6611	0.72612	0.00	------
6.63	Aldrin	3655	1.5179e-03	1	10	0.03010	0.997	1.6611	0.50430	0.00	------
7.49	Heptachlor epoxide	8822	3.9958e-03	1	10	0.03010	0.997	1.6611	1.32750	0.00	------
7.66	gamma-Chlordane	4174	1.7428e-03	1	10	0.03010	0.997	1.6611	0.57899	0.00	------
7.86	alpha-Chlordane	0	0.00000000	1	10	0.03010	0.997	----------	0.00000	--------	------
7.96	4,4'-DDE	2979	1.3119e-03	1	10	0.03010	0.997	3.3223	0.43586	0.00	------
8.04	Endosulfan I	4114	1.8008e-03	1	10	0.03010	0.997	1.6611	0.59828	0.00	------
8.35	Dieldrin	10361	4.6419e-03	1	10	0.03010	0.997	3.3223	1.54217	0.00	------
8.69	Endrin	3661	1.8022e-03	1	10	0.03010	0.997	3.3223	0.59875	0.00	------
8.82	4,4'-DDD	8614	4.5608e-03	1	10	0.03010	0.997	3.3223	1.51523	0.00	------
9.10	Endosulfan II	801	4.1349e-04	1	10	0.03010	0.997	3.3223	0.13737	0.00	------
9.27	4,4'-DDT	1930	1.0420e-03	1	10	0.03010	0.997	3.3223	0.34618	0.00	------
9.64	Endrin aldehyde	1825	1.1087e-03	1	10	0.03010	0.997	3.3223	0.36834	0.00	------
9.94	Methoxychlor	0	0.00000000	1	10	0.03010	0.997	----------	0.00000	--------	------
10.29	Endosulfan sulfate	0	0.00000000	1	10	0.03010	0.997	----------	0.00000	--------	------
10.65	Endrin ketone	7220	3.2489e-03	1	10	0.03010	0.997	3.3223	1.07937	0.00	------
11.80	Decachlorobiphenyl	125484	0.07388457	1	10	0.03010	0.997	3.3223	24.54637	39.87	61.6

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:28:03
Operator	: sagers	Sample Name	: 1515542006
Sample Number	: 044	Study	: F9M26
AutoSampler	: HP7673A	Rack/Vial	: 0/44
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	: 06/20/2015 02:57:44	Dilution Factor	: 1.00
		Cycle	: 7

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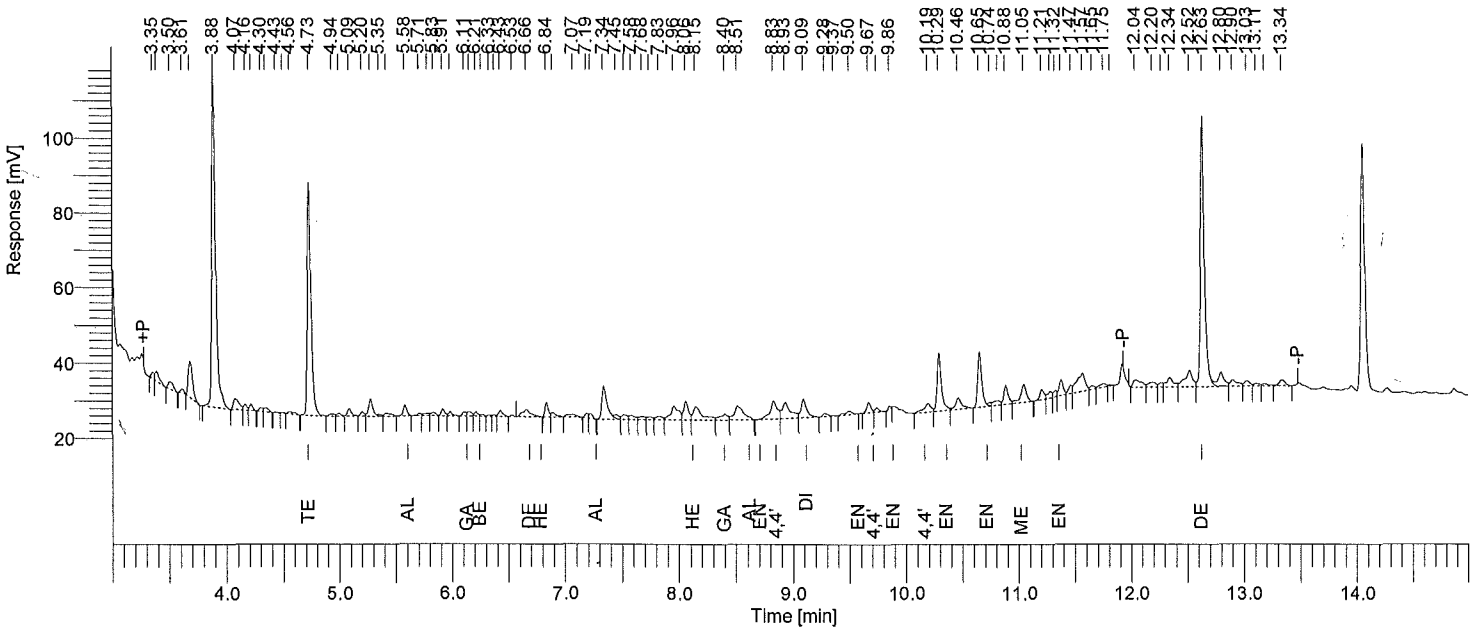

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.73	Tetrachloro-m-xylene	144480	0.04058004	1	10	0.03010	0.997	1.6611	13.48174	19.93	67.6
5.58	alpha-BHC	6510	1.4475e-03	1	10	0.03010	0.997	1.6611	0.48089	0.00	------
6.11	gamma-BHC	2571	6.2938e-04	1	10	0.03010	0.997	1.6611	0.20910	0.00	------
6.26	beta-BHC	1306	5.9846e-04	1	10	0.03010	0.997	1.6611	0.19882	0.00	------
6.66	delta-BHC	10022	2.6056e-03	1	10	0.03010	0.997	1.6611	0.86566	0.00	------
6.78	Heptachlor	0	0.00000000	1	10	0.03010	0.997	---------	0.00000	--------	------
7.22	Aldrin	2643	7.3615e-04	1	10	0.03010	0.997	1.6611	0.24457	0.00	------
8.15	Heptachlor epoxide	20137	6.2713e-03	1	10	0.03010	0.997	1.6611	2.08350	0.00	------
8.40	gamma-Chlordane	7753	2.2515e-03	1	10	0.03010	0.997	1.6611	0.74800	0.00	------
8.61	alpha-Chlordane	0	0.00000000	1	10	0.03010	0.997	---------	0.00000	--------	------
8.70	Endosulfan I	0	0.00000000	1	10	0.03010	0.997	---------	0.00000	--------	------
8.83	4,4'-DDE	21714	6.7789e-03	1	10	0.03010	0.997	3.3223	2.25211	0.00	------
9.09	Dieldrin	17488	5.4741e-03	1	10	0.03010	0.997	3.3223	1.81863	0.00	------
9.57	Endrin	0	0.00000000	1	10	0.03010	0.997	---------	0.00000	--------	------
9.74	4,4'-DDD	3069	1.2112e-03	1	10	0.03010	0.997	3.3223	0.40240	0.00	------
9.86	Endosulfan II	1106	4.1533e-04	1	10	0.03010	0.997	3.3223	0.13798	0.00	------
10.19	4,4'-DDT	10431	3.9370e-03	1	10	0.03010	0.997	3.3223	1.30798	0.00	------
10.29	Endrin aldehyde	40919	0.01882374	1	10	0.03010	0.997	3.3223	6.25373	0.00	------
10.74	Endosulfan sulfate	1738	7.4472e-04	1	10	0.03010	0.997	3.3223	0.24742	0.00	------
11.05	Methoxychlor	18077	0.01502777	1	10	0.03010	0.997	16.6113	4.99261	0.00	------
11.38	Endrin ketone	10835	3.8008e-03	1	10	0.03010	0.997	3.3223	1.26271	0.00	------
12.63	Decachlorobiphenyl	177499	0.07777839	1	10	0.03010	0.997	3.3223	25.84000	39.87	64.8

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M27

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542007

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 31150619A020,31150619B020

% Moisture: 19. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/19/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	0.13	JP
319-86-8	delta-BHC	0.11	JBP
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	0.15	JP
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	0.50	JBP
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	0.15	JBP
72-55-9	4,4'-DDE	0.19	JP
72-20-8	Endrin	0.20	JP
33213-65-9	Endosulfan II	0.065	JP
72-54-8	4,4'-DDD	0.24	JP
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	0.33	JP
72-43-5	Methoxychlor	21.	U
53494-70-5	Endrin ketone	0.63	J
7421-93-4	Endrin aldehyde	0.89	JBP
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	0.069	JP
8001-35-2	Toxaphene	210	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:25:27
Operator	: sagers	Sample Name	: 1515542007
Sample Number	: 020	Study	: F9M27
AutoSampler	: HP7673A	Rack/Vial	: 0/20
Instrument Name	: GCE31	Channel	: A
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 18:30:43	Dilution Factor	: 1.00
		Cycle	: 4

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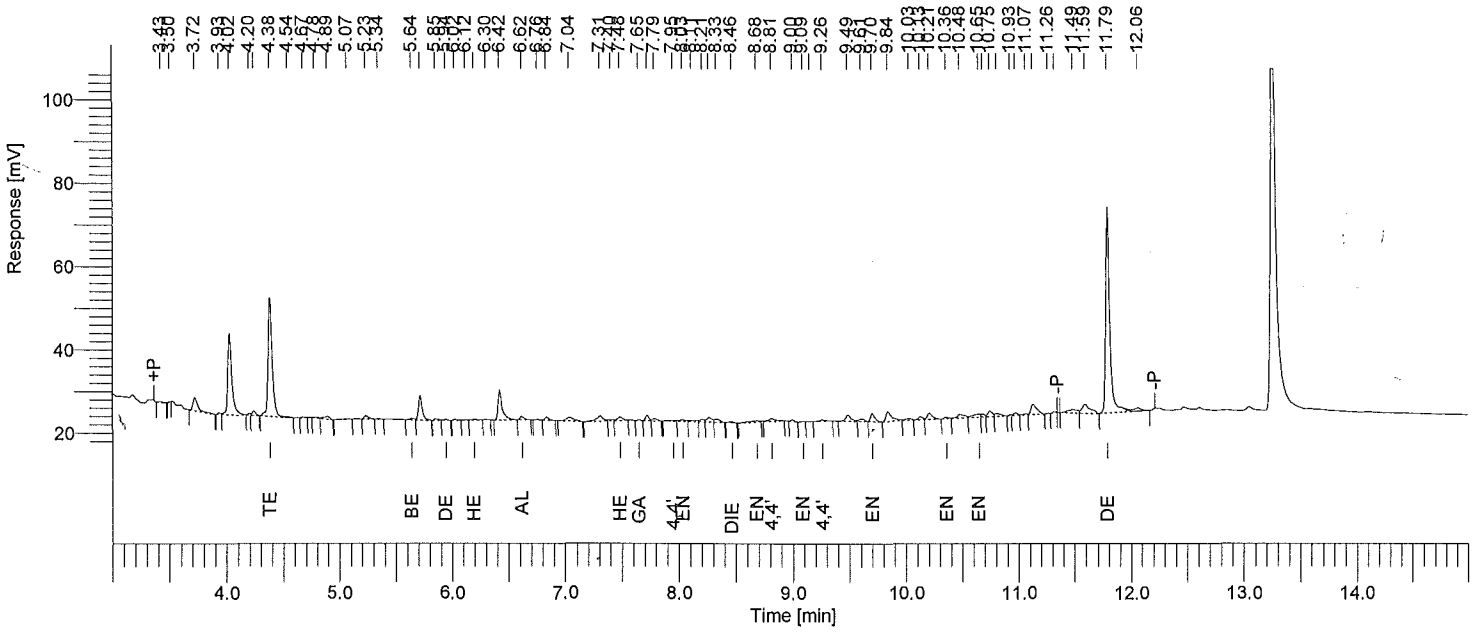

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.38	Tetrachloro-m-xylene	73234	0.03330512	1	10	0.03010	0.997	1.6611	11.06482	19.93	55.5
5.12	alpha-BHC	0	0.00000000	1	10	0.03010	0.997	----------	0.00000	--------	------
5.56	gamma-BHC	0	0.00000000	1	10	0.03010	0.997	----------	0.00000	--------	------
5.64	beta-BHC	998	7.0776e-04	1	10	0.03010	0.997	1.6611	0.23513	0.00	------
5.94	delta-BHC	650	2.5941e-04	1	10	0.03010	0.997	1.6611	0.08618	0.00	------
6.19	Heptachlor	897	3.7055e-04	1	10	0.03010	0.997	1.6611	0.12311	0.00	------
6.62	Aldrin	1987	8.2501e-04	1	10	0.03010	0.997	1.6611	0.27409	0.00	------
7.48	Heptachlor epoxide	2676	1.2122e-03	1	10	0.03010	0.997	1.6611	0.40272	0.00	------
7.65	gamma-Chlordane	401	1.6728e-04	1	10	0.03010	0.997	1.6611	0.05557	0.00	------
7.86	alpha-Chlordane	0	0.00000000	1	10	0.03010	0.997	----------	0.00000	--------	------
7.95	4,4'-DDE	1041	4.5840e-04	1	10	0.03010	0.997	3.3223	0.15229	0.00	------
8.03	Endosulfan I	1661	7.2691e-04	1	10	0.03010	0.997	1.6611	0.24150	0.00	------
8.46	Dieldrin	797	3.5726e-04	1	10	0.03010	0.997	3.3223	0.11869	0.00	------
8.68	Endrin	2708	1.3330e-03	1	10	0.03010	0.997	3.3223	0.44284	0.00	------
8.81	4,4'-DDD	2936	1.5547e-03	1	10	0.03010	0.997	3.3223	0.51651	0.00	------
9.09	Endosulfan II	304	1.5674e-04	1	10	0.03010	0.997	3.3223	0.05207	0.00	------
9.26	4,4'-DDT	1505	8.1251e-04	1	10	0.03010	0.997	3.3223	0.26994	0.00	------
9.70	Endrin aldehyde	5186	3.1515e-03	1	10	0.03010	0.997	3.3223	1.04700	0.00	------
9.94	Methoxychlor	0	0.00000000	1	10	0.03010	0.997	----------	0.00000	--------	------
10.36	Endosulfan sulfate	1077	6.3237e-04	1	10	0.03010	0.997	3.3223	0.21009	0.00	------
10.65	Endrin ketone	3745	1.6853e-03	1	10	0.03010	0.997	3.3223	0.55990	0.00	------
11.79	Decachlorobiphenyl	124770	0.07346392	1	10	0.03010	0.997	3.3223	24.40662	39.87	61.2

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:27:12
Operator	: sagers	Sample Name	: 1515542007
Sample Number	: 020	Study	: F9M27
AutoSampler	: HP7673A	Rack/Vial	: 0/20
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 18:50:59	Dilution Factor	: 1.00
		Cycle	: 4

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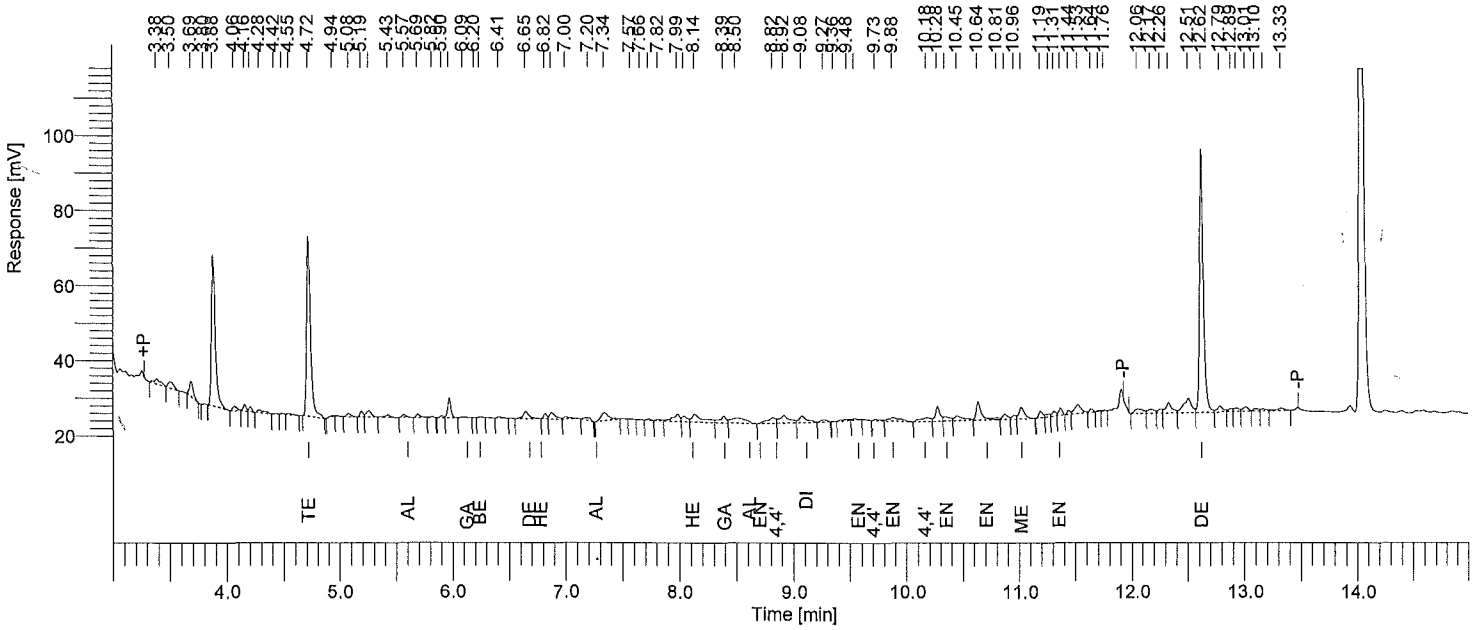

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.72	Tetrachloro-m-xylene	115939	0.03256365	1	10	0.03010	0.997	1.6611	10.81849	19.93	54.3
5.57	alpha-BHC	1706	3.7932e-04	1	10	0.03010	0.997	1.6611	0.12602	0.00	------
6.09	gamma-BHC	945	2.3138e-04	1	10	0.03010	0.997	1.6611	0.07687	0.00	------
6.24	beta-BHC	689	3.1576e-04	1	10	0.03010	0.997	1.6611	0.10490	0.00	------
6.65	delta-BHC	7476	1.9437e-03	1	10	0.03010	0.997	1.6611	0.64573	0.00	------
6.82	Heptachlor	2882	7.7002e-04	1	10	0.03010	0.997	1.6611	0.25582	0.00	------
7.27	Aldrin	0	0.00000000	1	10	0.03010	0.997	---------	0.00000	--------	------
8.14	Heptachlor epoxide	13441	4.1859e-03	1	10	0.03010	0.997	1.6611	1.39065	0.00	------
8.39	gamma-Chlordane	7128	2.0699e-03	1	10	0.03010	0.997	1.6611	0.68768	0.00	------
8.61	alpha-Chlordane	0	0.00000000	1	10	0.03010	0.997	---------	0.00000	--------	------
8.70	Endosulfan I	0	0.00000000	1	10	0.03010	0.997	---------	0.00000	--------	------
8.82	4,4'-DDE	7833	2.4454e-03	1	10	0.03010	0.997	3.3223	0.81243	0.00	------
9.08	Dieldrin	8568	2.6820e-03	1	10	0.03010	0.997	3.3223	0.89103	0.00	------
9.54	Endrin	1340	4.9043e-04	1	10	0.03010	0.997	3.3223	0.16293	0.00	------
9.73	4,4'-DDD	1493	5.8933e-04	1	10	0.03010	0.997	3.3223	0.19579	0.00	------
9.88	Endosulfan II	6957	2.6122e-03	1	10	0.03010	0.997	3.3223	0.86785	0.00	------
10.18	4,4'-DDT	6622	2.4992e-03	1	10	0.03010	0.997	3.3223	0.83029	0.00	------
10.34	Endrin aldehyde	4714	2.1685e-03	1	10	0.03010	0.997	3.3223	0.72042	0.00	------
10.71	Endosulfan sulfate	0	0.00000000	1	10	0.03010	0.997	---------	0.00000	--------	------
11.02	Methoxychlor	10636	8.8415e-03	1	10	0.03010	0.997	16.6113	2.93738	0.00	------
11.37	Endrin ketone	4375	1.5348e-03	1	10	0.03010	0.997	3.3223	0.50989	0.00	------
12.62	Decachlorobiphenyl	164987	0.07229547	1	10	0.03010	0.997	3.3223	24.01843	39.87	60.2

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M28

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542010

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 31150619A045,31150619B045

% Moisture: 17. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/20/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.33	JBP
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	0.56	JP
76-44-8	Heptachlor	0.48	JP
309-00-2	Aldrin	0.29	J
1024-57-3	Heptachlor epoxide	0.24	JB
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	4.0	U
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	0.24	JP
33213-65-9	Endosulfan II	0.045	JP
72-54-8	4,4'-DDD	0.20	JP
1031-07-8	Endosulfan sulfate	0.062	JP
50-29-3	4,4'-DDT	0.21	JP
72-43-5	Methoxychlor	20.	U
53494-70-5	Endrin ketone	0.078	JP
7421-93-4	Endrin aldehyde	0.67	JBP
5103-71-9	alpha-Chlordane	0.41	JP
5103-74-2	gamma-Chlordane	0.58	J
8001-35-2	Toxaphene	200	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:26:22
Operator	: sagers	Sample Name	: 1515542010
Sample Number	: 045	Study	: F9M28
AutoSampler	: HP7673A	Rack/Vial	: 0/45
Instrument Name	: GCE31	Channel	: A
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/20/2015 02:57:44	Cycle	: 8

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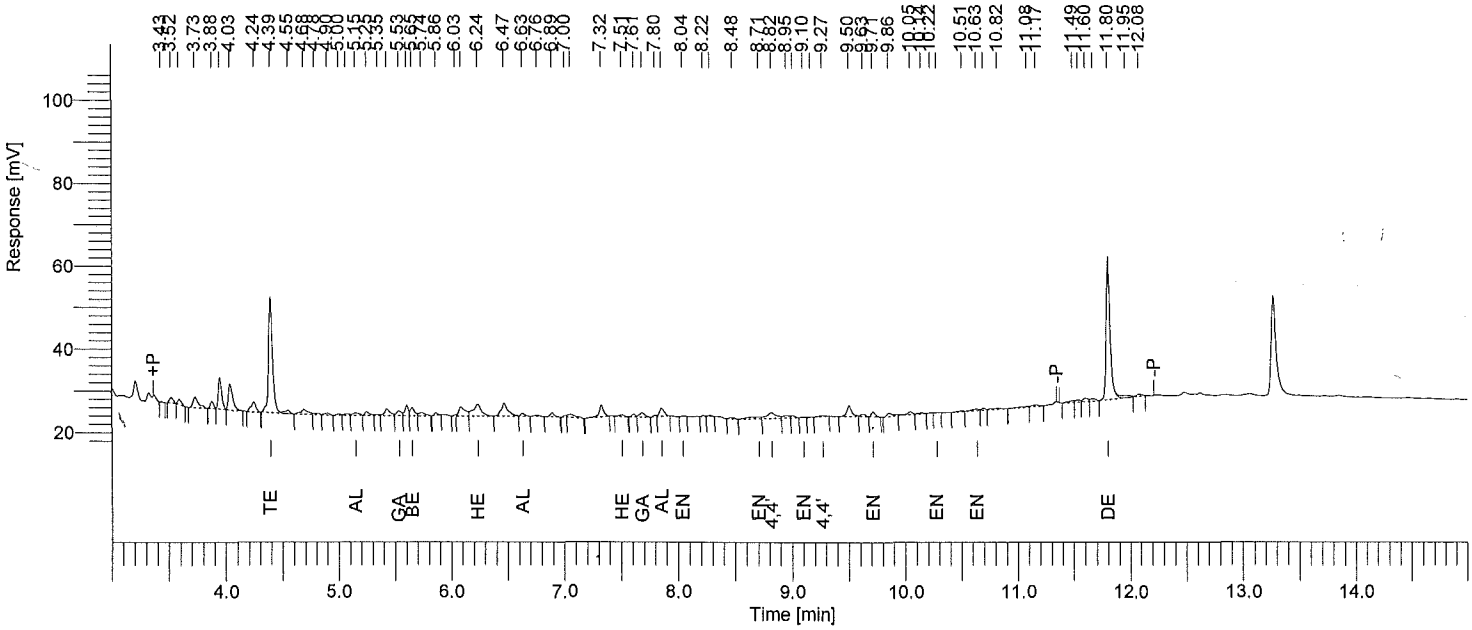

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.39	Tetrachloro-m-xylene	69205	0.03147267	1	10	0.03015	0.995	1.6584	10.43870	19.90	52.5
5.15	alpha-BHC	2261	8.1424e-04	1	10	0.03015	0.995	1.6584	0.27006	0.00	------
5.53	gamma-BHC	3605	1.3895e-03	1	10	0.03015	0.995	1.6584	0.46087	0.00	------
5.65	beta-BHC	5246	3.7191e-03	1	10	0.03015	0.995	1.6584	1.23352	0.00	------
5.92	delta-BHC	0	0.00000000	1	10	0.03015	0.995	----------	0.00000	--------	------
6.24	Heptachlor	14469	5.9751e-03	1	10	0.03015	0.995	1.6584	1.98179	0.00	------
6.63	Aldrin	1745	7.2474e-04	1	10	0.03015	0.995	1.6584	0.24038	0.00	------
7.51	Heptachlor epoxide	1523	6.8963e-04	1	10	0.03015	0.995	1.6584	0.22873	0.00	------
7.68	gamma-Chlordane	3444	1.4379e-03	1	10	0.03015	0.995	1.6584	0.47691	0.00	------
7.85	alpha-Chlordane	5456	2.2088e-03	1	10	0.03015	0.995	1.6584	0.73262	0.00	------
7.97	4,4'-DDE	0	0.00000000	1	10	0.03015	0.995	----------	0.00000	--------	------
8.04	Endosulfan I	211	9.2339e-05	1	10	0.03015	0.995	1.6584	0.03063	0.00	------
8.40	Dieldrin	0	0.00000000	1	10	0.03015	0.995	----------	0.00000	--------	------
8.71	Endrin	4182	2.0587e-03	1	10	0.03015	0.995	3.3167	0.68282	0.00	------
8.82	4,4'-DDD	8107	4.2922e-03	1	10	0.03015	0.995	3.3167	1.42363	0.00	------
9.10	Endosulfan II	218	1.1267e-04	1	10	0.03015	0.995	3.3167	0.03737	0.00	------
9.27	4,4'-DDT	982	5.3040e-04	1	10	0.03015	0.995	3.3167	0.17592	0.00	------
9.71	Endrin aldehyde	2753	1.6730e-03	1	10	0.03015	0.995	3.3167	0.55490	0.00	------
9.94	Methoxychlor	0	0.00000000	1	10	0.03015	0.995	----------	0.00000	--------	------
10.28	Endosulfan sulfate	265	1.5581e-04	1	10	0.03015	0.995	3.3167	0.05168	0.00	------
10.63	Endrin ketone	2368	1.0657e-03	1	10	0.03015	0.995	3.3167	0.35348	0.00	------
11.80	Decachlorobiphenyl	82918	0.04882169	1	10	0.03015	0.995	3.3167	16.19293	39.80	40.7

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:28:06
Operator	: sagers	Sample Name	: 1515542010
Sample Number	: 045	Study	: F9M28
AutoSampler	: HP7673A	Rack/Vial	: 0/45
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	: 06/20/2015 03:18:08	Dilution Factor	: 1.00
		Cycle	: 8

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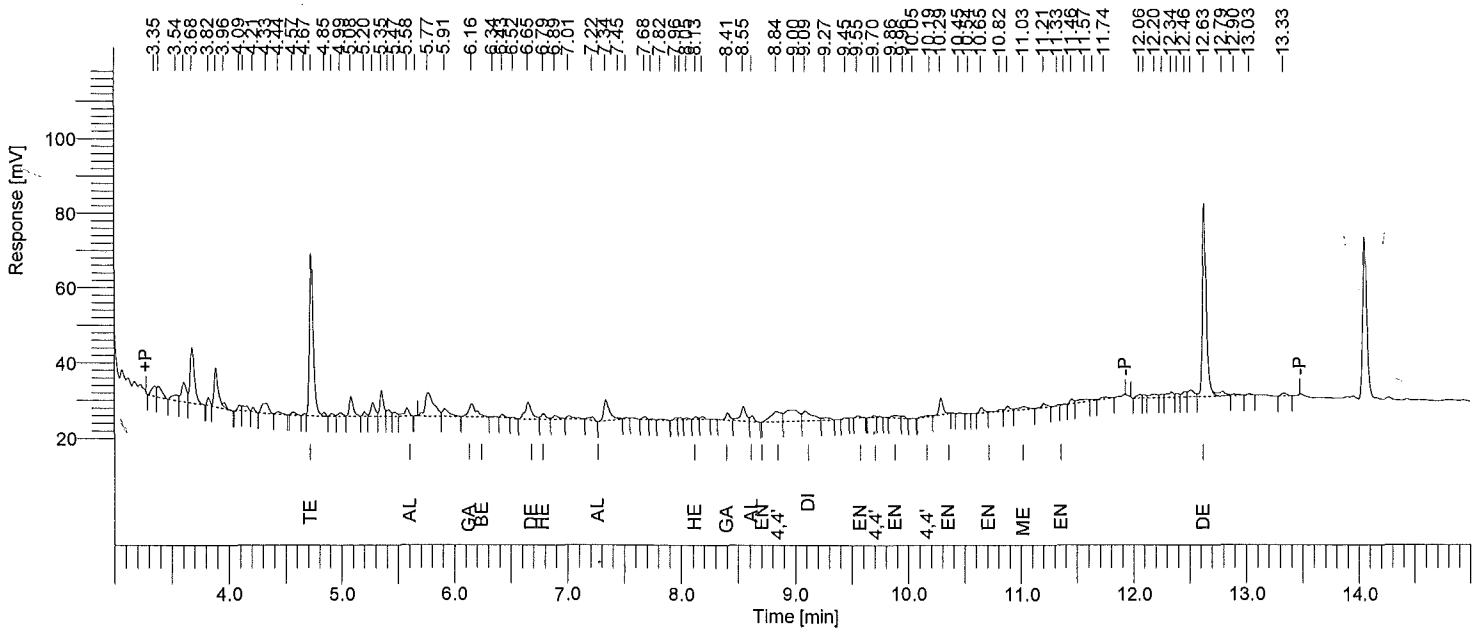

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.73	Tetrachloro-m-xylene	100036	0.02809704	1	10	0.03015	0.995	1.6584	9.31909	19.90	46.8
5.58	alpha-BHC	6527	1.4512e-03	1	10	0.03015	0.995	1.6584	0.48134	0.00	------
6.16	gamma-BHC	16098	3.9408e-03	1	10	0.03015	0.995	1.6584	1.30705	0.00	------
6.24	beta-BHC	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
6.65	delta-BHC	18151	4.7191e-03	1	10	0.03015	0.995	1.6584	1.56521	0.00	------
6.79	Heptachlor	4481	1.1971e-03	1	10	0.03015	0.995	1.6584	0.39706	0.00	------
7.22	Aldrin	2980	8.2994e-04	1	10	0.03015	0.995	1.6584	0.27527	0.00	------
8.13	Heptachlor epoxide	1914	5.9595e-04	1	10	0.03015	0.995	1.6584	0.19766	0.00	------
8.41	gamma-Chlordane	5156	1.4972e-03	1	10	0.03015	0.995	1.6584	0.49657	0.00	------
8.62	alpha-Chlordane	3543	1.0290e-03	1	10	0.03015	0.995	1.6584	0.34130	0.00	------
8.70	Endosulfan I	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
8.84	4,4'-DDE	17664	5.5147e-03	1	10	0.03015	0.995	3.3167	1.82909	0.00	------
9.09	Dieldrin	15977	5.0012e-03	1	10	0.03015	0.995	3.3167	1.65878	0.00	------
9.55	Endrin	1624	5.9449e-04	1	10	0.03015	0.995	3.3167	0.19718	0.00	------
9.70	4,4'-DDD	1247	4.9223e-04	1	10	0.03015	0.995	3.3167	0.16326	0.00	------
9.86	Endosulfan II	3352	1.2585e-03	1	10	0.03015	0.995	3.3167	0.41741	0.00	------
10.19	4,4'-DDT	2359	8.9032e-04	1	10	0.03015	0.995	3.3167	0.29530	0.00	------
10.29	Endrin aldehyde	11224	5.1635e-03	1	10	0.03015	0.995	3.3167	1.71259	0.00	------
10.65	Endosulfan sulfate	3764	1.6131e-03	1	10	0.03015	0.995	3.3167	0.53501	0.00	------
11.03	Methoxychlor	4575	3.8035e-03	1	10	0.03015	0.995	16.5837	1.26152	0.00	------
11.33	Endrin ketone	556	1.9499e-04	1	10	0.03015	0.995	3.3167	0.06467	0.00	------
12.63	Decachlorobiphenyl	123773	0.05423615	1	10	0.03015	0.995	3.3167	17.98877	39.80	45.2

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M29

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542011

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 31150619A023,31150619B023

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/19/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.098	JBP
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	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	0.15	JBP
72-55-9	4,4'-DDE	0.055	JP
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	0.19	J
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	0.081	JP
50-29-3	4,4'-DDT	0.11	JP
72-43-5	Methoxychlor	20.	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	0.20	JP
8001-35-2	Toxaphene	200	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:25:34
Operator	: sagers	Sample Name	: 1515542011
Sample Number	: 023	Study	: F9M29
AutoSampler	: HP7673A	Rack/Vial	: 0/23
Instrument Name	: GCE31	Channel	: A
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/19/2015 19:31:37	Cycle	: 7

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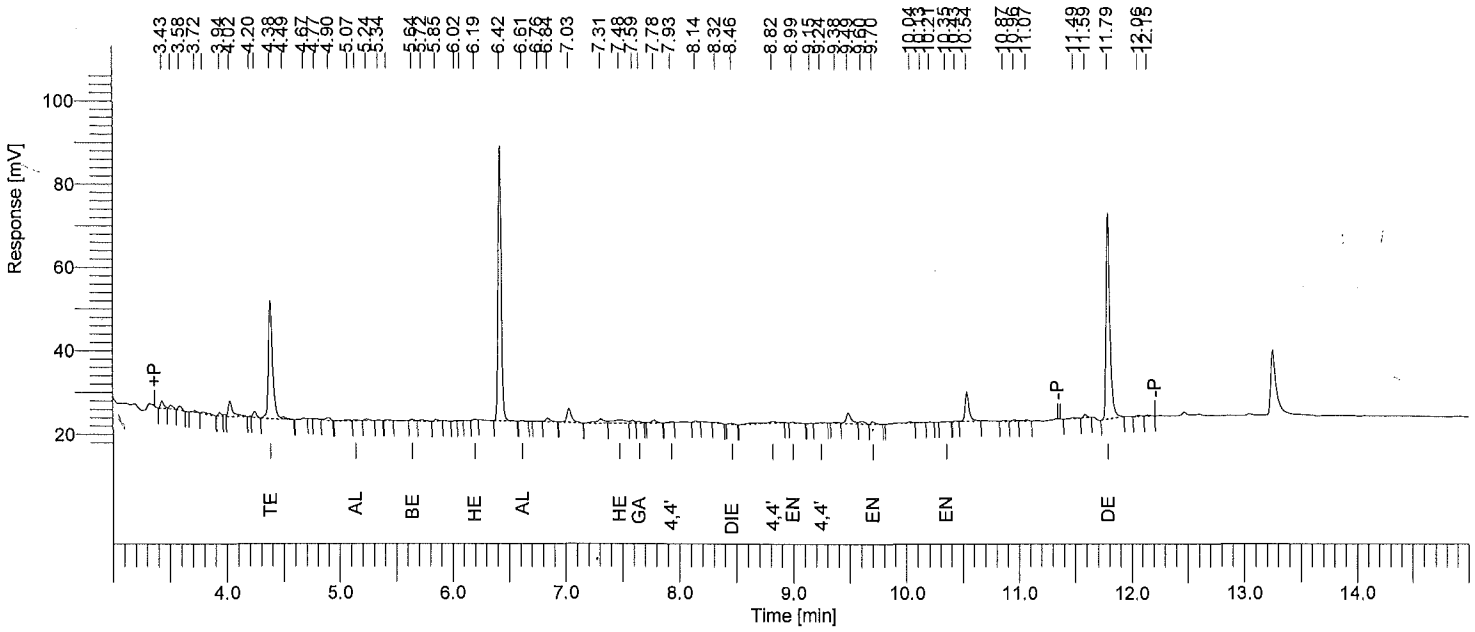

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.38	Tetrachloro-m-xylene	71708	0.03261083	1	10	0.03015	0.995	1.6584	10.81620	19.90	54.4
5.14	alpha-BHC	706	2.5409e-04	1	10	0.03015	0.995	1.6584	0.08427	0.00	------
5.56	gamma-BHC	0	0.00000000	1	10	0.03015	0.995	----------	0.00000	--------	------
5.64	beta-BHC	928	6.5767e-04	1	10	0.03015	0.995	1.6584	0.21813	0.00	------
5.92	delta-BHC	0	0.00000000	1	10	0.03015	0.995	----------	0.00000	--------	------
6.19	Heptachlor	396	1.6348e-04	1	10	0.03015	0.995	1.6584	0.05422	0.00	------
6.61	Aldrin	525	2.1815e-04	1	10	0.03015	0.995	1.6584	0.07235	0.00	------
7.48	Heptachlor epoxide	6749	3.0568e-03	1	10	0.03015	0.995	1.6584	1.01386	0.00	------
7.65	gamma-Chlordane	1232	5.1454e-04	1	10	0.03015	0.995	1.6584	0.17066	0.00	------
7.86	alpha-Chlordane	0	0.00000000	1	10	0.03015	0.995	----------	0.00000	--------	------
7.93	4,4'-DDE	325	1.4302e-04	1	10	0.03015	0.995	3.3167	0.04744	0.00	------
8.06	Endosulfan I	0	0.00000000	1	10	0.03015	0.995	----------	0.00000	--------	------
8.46	Dieldrin	886	3.9673e-04	1	10	0.03015	0.995	3.3167	0.13159	0.00	------
8.74	Endrin	0	0.00000000	1	10	0.03015	0.995	----------	0.00000	--------	------
8.82	4,4'-DDD	4685	2.4805e-03	1	10	0.03015	0.995	3.3167	0.82271	0.00	------
8.99	Endosulfan II	1095	5.6541e-04	1	10	0.03015	0.995	3.3167	0.18753	0.00	------
9.24	4,4'-DDT	540	2.9134e-04	1	10	0.03015	0.995	3.3167	0.09663	0.00	------
9.70	Endrin aldehyde	1646	1.0005e-03	1	10	0.03015	0.995	3.3167	0.33184	0.00	------
9.94	Methoxychlor	0	0.00000000	1	10	0.03015	0.995	----------	0.00000	--------	------
10.35	Endosulfan sulfate	361	2.1170e-04	1	10	0.03015	0.995	3.3167	0.07021	0.00	------
10.65	Endrin ketone	0	0.00000000	1	10	0.03015	0.995	----------	0.00000	--------	------
11.79	Decachlorobiphenyl	113865	0.06704310	1	10	0.03015	0.995	3.3167	22.23652	39.80	55.9

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:27:19
Operator	: sagers	Sample Name	: 1515542011
Sample Number	: 023	Study	: F9M29
AutoSampler	: HP7673A	Rack/Vial	: 0/23
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 19:52:09	Dilution Factor	: 1.00
		Cycle	: 7

Raw Data File : \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619B_023.raw <Modified>
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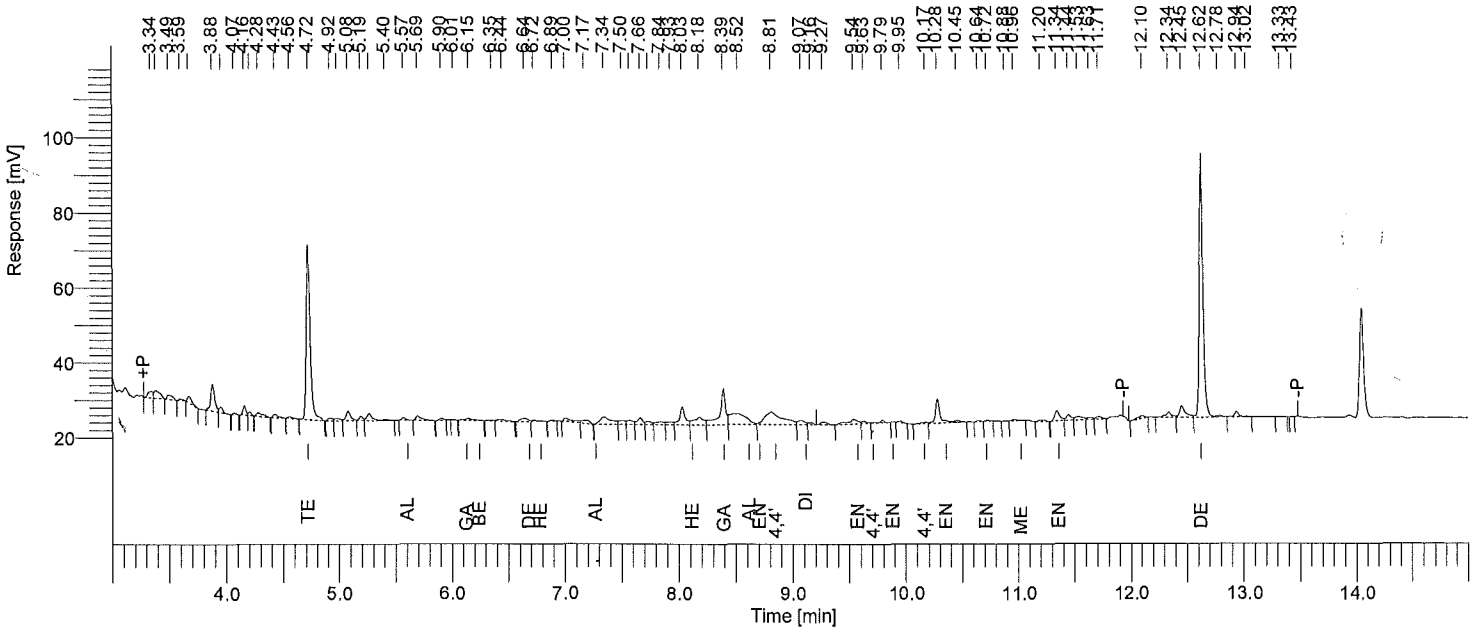

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.72	Tetrachloro-m-xylene	112957	0.03172612	1	10	0.03015	0.995	1.6584	10.52276	19.90	52.9
5.57	alpha-BHC	1694	3.7674e-04	1	10	0.03015	0.995	1.6584	0.12495	0.00	------
6.15	gamma-BHC	3111	7.6159e-04	1	10	0.03015	0.995	1.6584	0.25260	0.00	------
6.24	beta-BHC	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
6.64	delta-BHC	4125	1.0724e-03	1	10	0.03015	0.995	1.6584	0.35568	0.00	------
6.78	Heptachlor	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
7.27	Aldrin	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
8.12	Heptachlor epoxide	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
8.39	gamma-Chlordane	35280	0.01024489	1	10	0.03015	0.995	1.6584	3.39797	0.00	------
8.61	alpha-Chlordane	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
8.70	Endosulfan I	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
8.81	4,4'-DDE	37810	0.01180411	1	10	0.03015	0.995	3.3167	3.91513	0.00	------
9.07	Dieldrin	5361	1.6781e-03	1	10	0.03015	0.995	3.3167	0.55660	0.00	------
9.54	Endrin	8399	3.0745e-03	1	10	0.03015	0.995	3.3167	1.01972	0.00	------
9.71	4,4'-DDD	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
9.95	Endosulfan II	1303	4.8930e-04	1	10	0.03015	0.995	3.3167	0.16229	0.00	------
10.17	4,4'-DDT	1837	6.9321e-04	1	10	0.03015	0.995	3.3167	0.22992	0.00	------
10.35	Endrin aldehyde	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
10.72	Endosulfan sulfate	839	3.5951e-04	1	10	0.03015	0.995	3.3167	0.11924	0.00	------
10.96	Methoxychlor	1193	9.9196e-04	1	10	0.03015	0.995	16.5837	0.32901	0.00	------
11.34	Endrin ketone	8611	3.0205e-03	1	10	0.03015	0.995	3.3167	1.00183	0.00	------
12.62	Decachlorobiphenyl	160687	0.07041142	1	10	0.03015	0.995	3.3167	23.35370	39.80	58.7

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M30

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542012

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 31150619A024,31150619B024

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/19/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.044	JBP
319-85-7	beta-BHC	0.10	JP
319-86-8	delta-BHC	0.11	JBP
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	0.14	JBP
72-55-9	4,4'-DDE	0.070	JP
72-20-8	Endrin	0.44	JP
33213-65-9	Endosulfan II	0.017	JP
72-54-8	4,4'-DDD	0.24	JP
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	20.	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	0.34	JBP
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	: 06/20/2015 09:25:36
Operator	: sagers	Sample Name	: 1515542012
Sample Number	: 024	Study	: F9M30
AutoSampler	: HP7673A	Rack/Vial	: 0/24
Instrument Name	: GCE31	Channel	: A
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 19:52:09	Dilution Factor	: 1.00
		Cycle	: 8

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Proc Method : \\Alsltws012\TCCS\sagers\GCE31\31150619\31_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619A_024.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE31\31150619\31_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619A_024.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE31\31150618\31_RPT_2UL\31_som_soil_sample_a.rpt
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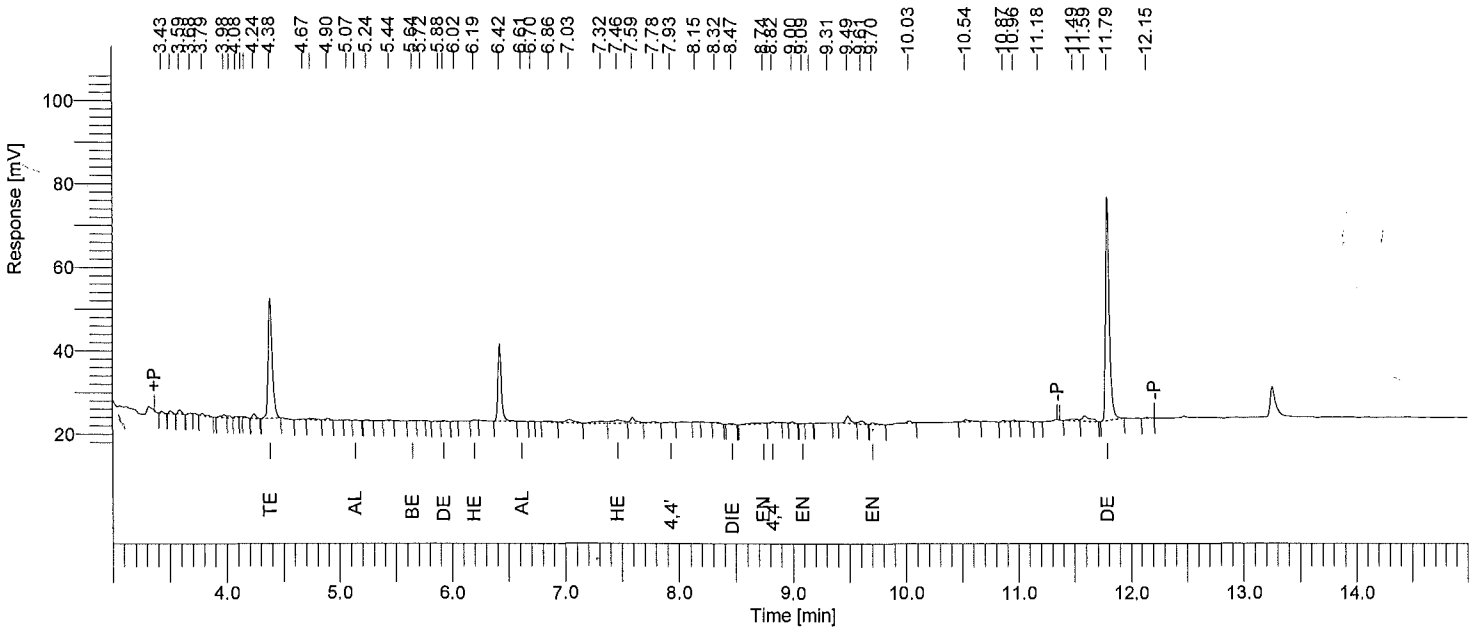

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.38	Tetrachloro-m-xylene	71426	0.03248290	1	10	0.03033	0.989	1.6485	10.70983	19.78	54.1
5.14	alpha-BHC	316	1.1362e-04	1	10	0.03033	0.989	1.6485	0.03746	0.00	------
5.56	gamma-BHC	0	0.00000000	1	10	0.03033	0.989	----------	0.00000	--------	------
5.64	beta-BHC	379	2.6875e-04	1	10	0.03033	0.989	1.6485	0.08861	0.00	------
5.92	delta-BHC	734	2.9263e-04	1	10	0.03033	0.989	1.6485	0.09648	0.00	------
6.19	Heptachlor	367	1.5140e-04	1	10	0.03033	0.989	1.6485	0.04992	0.00	------
6.61	Aldrin	472	1.9602e-04	1	10	0.03033	0.989	1.6485	0.06463	0.00	------
7.46	Heptachlor epoxide	5513	2.4970e-03	1	10	0.03033	0.989	1.6485	0.82328	0.00	------
7.67	gamma-Chlordane	0	0.00000000	1	10	0.03033	0.989	----------	0.00000	--------	------
7.86	alpha-Chlordane	0	0.00000000	1	10	0.03033	0.989	----------	0.00000	--------	------
7.93	4,4'-DDE	412	1.8141e-04	1	10	0.03033	0.989	3.2971	0.05981	0.00	------
8.06	Endosulfan I	0	0.00000000	1	10	0.03033	0.989	----------	0.00000	--------	------
8.47	Dieldrin	802	3.5916e-04	1	10	0.03033	0.989	3.2971	0.11842	0.00	------
8.74	Endrin	2309	1.1367e-03	1	10	0.03033	0.989	3.2971	0.37477	0.00	------
8.82	4,4'-DDD	1193	6.3149e-04	1	10	0.03033	0.989	3.2971	0.20821	0.00	------
9.09	Endosulfan II	86	4.4255e-05	1	10	0.03033	0.989	3.2971	0.01459	0.00	------
9.23	4,4'-DDT	0	0.00000000	1	10	0.03033	0.989	----------	0.00000	--------	------
9.70	Endrin aldehyde	1451	8.8200e-04	1	10	0.03033	0.989	3.2971	0.29080	0.00	------
9.94	Methoxychlor	0	0.00000000	1	10	0.03033	0.989	----------	0.00000	--------	------
10.29	Endosulfan sulfate	0	0.00000000	1	10	0.03033	0.989	----------	0.00000	--------	------
10.65	Endrin ketone	0	0.00000000	1	10	0.03033	0.989	----------	0.00000	--------	------
11.79	Decachlorobiphenyl	122639	0.07220947	1	10	0.03033	0.989	3.2971	23.80793	39.56	60.2

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:27:21
Operator	: sagers	Sample Name	: 1515542012
Sample Number	: 024	Study	: F9M30
AutoSampler	: HP7673A	Rack/Vial	: 0/24
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 20:12:23	Dilution Factor	: 1.00
		Cycle	: 8

Raw Data File : \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619B_024.raw <Modified>
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Proc Method : \\Alsltws012\TCCS\sagers\GCE31\31150619\31_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619B_024.rst
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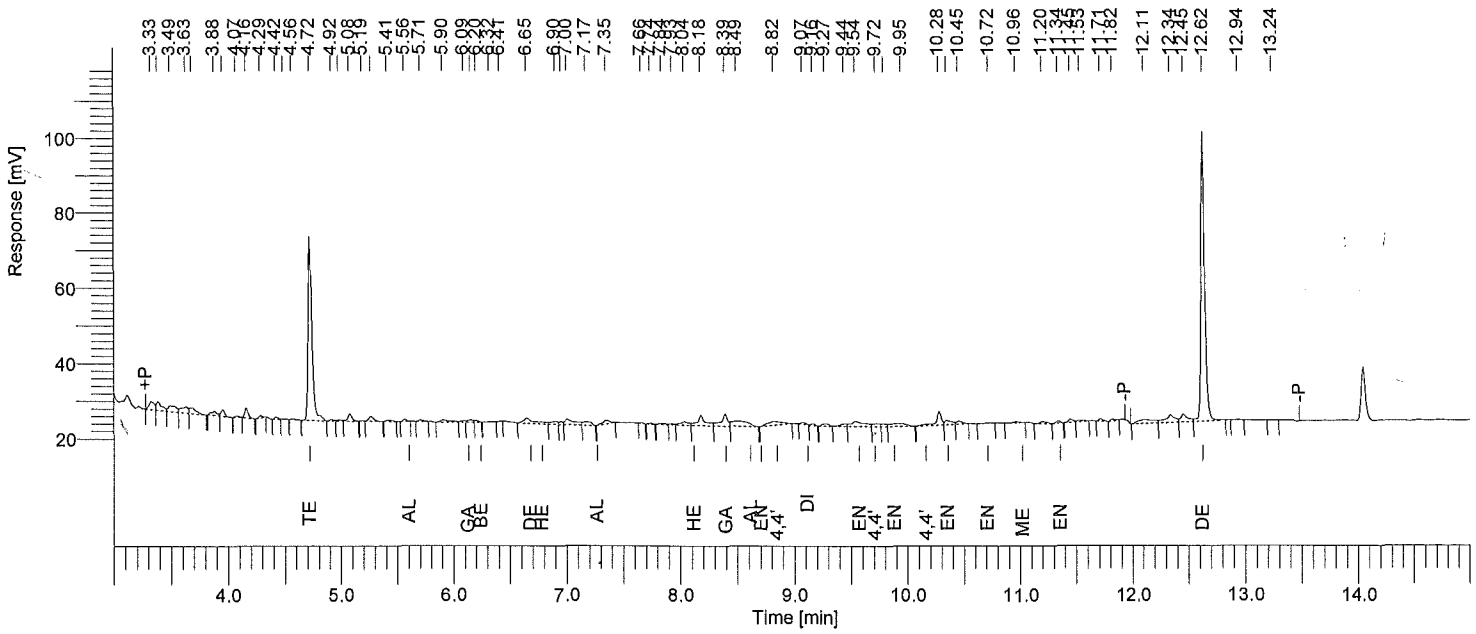
Report Format File: \\Alsltws012\TCCS\sagers\GCE31\31150618\31_RPT_2UL\31_som_soil_sample_b.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619_SOM012_PEST_F9M21_A.seq



Instrument ID: GC31B 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 %
4.72	Tetrachloro-m-xylene	116359	0.03268164	1	10	0.03033	0.989	1.6485	10.77535	19.78	54.5
5.56	alpha-BHC	1187	2.6396e-04	1	10	0.03033	0.989	1.6485	0.08703	0.00	------
6.15	gamma-BHC	2239	5.4814e-04	1	10	0.03033	0.989	1.6485	0.18073	0.00	------
6.20	beta-BHC	1053	4.8278e-04	1	10	0.03033	0.989	1.6485	0.15917	0.00	------
6.65	delta-BHC	9536	2.4791e-03	1	10	0.03033	0.989	1.6485	0.81739	0.00	------
6.78	Heptachlor	0	0.00000000	1	10	0.03033	0.989	---------	0.00000	--------	------
7.27	Aldrin	0	0.00000000	1	10	0.03033	0.989	---------	0.00000	--------	------
8.12	Heptachlor epoxide	0	0.00000000	1	10	0.03033	0.989	---------	0.00000	--------	------
8.39	gamma-Chlordane	12851	3.7316e-03	1	10	0.03033	0.989	1.6485	1.23035	0.00	------
8.61	alpha-Chlordane	0	0.00000000	1	10	0.03033	0.989	---------	0.00000	--------	------
8.70	Endosulfan I	0	0.00000000	1	10	0.03033	0.989	---------	0.00000	--------	------
8.82	4,4'-DDE	8607	2.6871e-03	1	10	0.03033	0.989	3.2971	0.88594	0.00	------
9.07	Dieldrin	1501	4.6975e-04	1	10	0.03033	0.989	3.2971	0.15488	0.00	------
9.54	Endrin	11443	4.1885e-03	1	10	0.03033	0.989	3.2971	1.38098	0.00	------
9.72	4,4'-DDD	3465	1.3678e-03	1	10	0.03033	0.989	3.2971	0.45096	0.00	------
9.95	Endosulfan II	7844	2.9453e-03	1	10	0.03033	0.989	3.2971	0.97110	0.00	------
10.16	4,4'-DDT	0	0.00000000	1	10	0.03033	0.989	---------	0.00000	--------	------
10.35	Endrin aldehyde	4802	2.2089e-03	1	10	0.03033	0.989	3.2971	0.72830	0.00	------
10.72	Endosulfan sulfate	840	3.5992e-04	1	10	0.03033	0.989	3.2971	0.11867	0.00	------
10.96	Methoxychlor	1224	1.0173e-03	1	10	0.03033	0.989	16.4853	0.33540	0.00	------
11.34	Endrin ketone	1584	5.5561e-04	1	10	0.03033	0.989	3.2971	0.18319	0.00	------
12.62	Decachlorobiphenyl	178559	0.07824278	1	10	0.03033	0.989	3.2971	25.79716	39.56	65.2

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M31

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542013

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 31150619A025,31150619B025

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/19/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.45	JB
319-85-7	beta-BHC	0.096	JP
319-86-8	delta-BHC	0.093	JBP
58-89-9	gamma-BHC (Lindane)	0.22	JP
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	0.64	JBP
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	0.35	JBP
72-55-9	4,4'-DDE	0.086	JP
72-20-8	Endrin	0.74	JP
33213-65-9	Endosulfan II	0.66	JP
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	0.21	JP
50-29-3	4,4'-DDT	0.27	JP
72-43-5	Methoxychlor	20.	U
53494-70-5	Endrin ketone	0.24	J
7421-93-4	Endrin aldehyde	0.63	JBP
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	0.38	JP
8001-35-2	Toxaphene	200	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:25:38
Operator	: sagers	Sample Name	: 1515542013
Sample Number	: 025	Study	: F9M31
AutoSampler	: HP7673A	Rack/Vial	: 0/25
Instrument Name	: GCE31	Channel	: A
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 20:12:23	Dilution Factor	: 1.00
		Cycle	: 9

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Proc Method : \\AlsItws012\TCCS\sagers\GCE31\31150619\31_som12_pest_a.mth from \\AlsItws012\TCCS\sagers\GCE31\31150619\31150619A_025.rst
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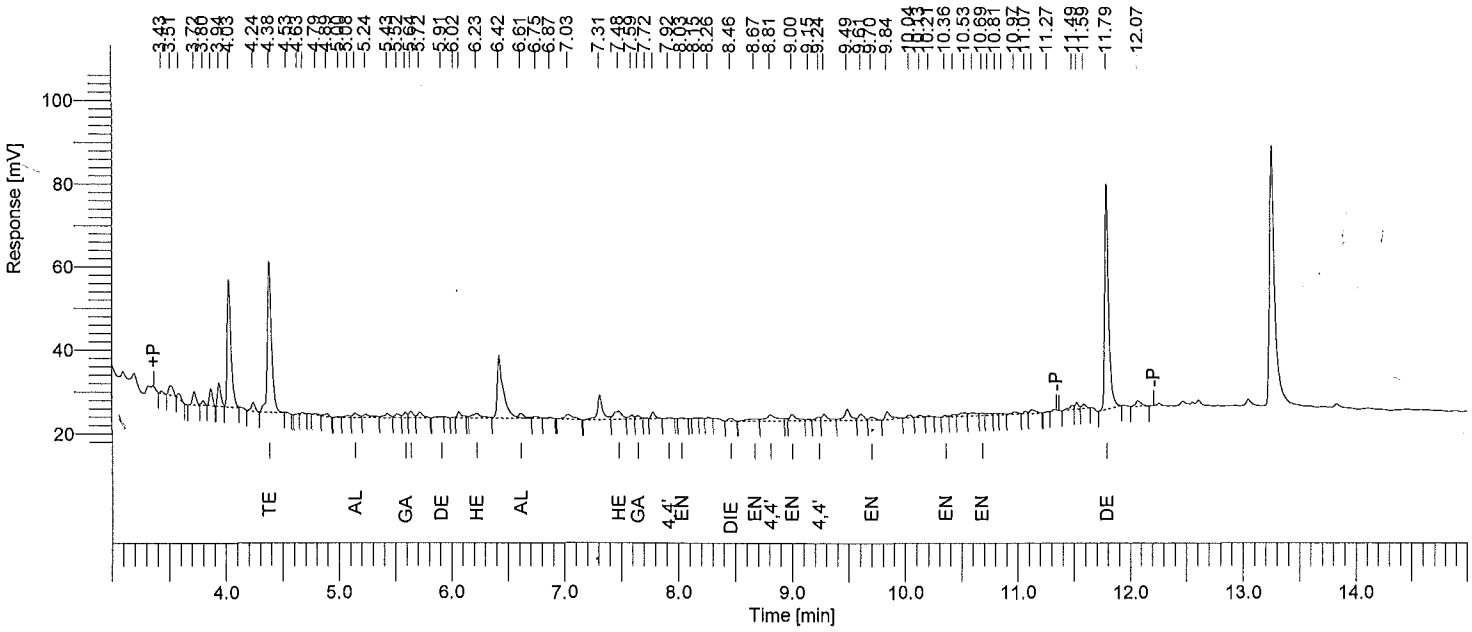

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.38	Tetrachloro-m-xylene	94489	0.04297142	1	10	0.03033	0.989	1.6485	14.16796	19.78	71.6
5.14	alpha-BHC	3489	1.2563e-03	1	10	0.03033	0.989	1.6485	0.41422	0.00	------
5.59	gamma-BHC	3216	1.2397e-03	1	10	0.03033	0.989	1.6485	0.40873	0.00	------
5.64	beta-BHC	4169	2.9555e-03	1	10	0.03033	0.989	1.6485	0.97446	0.00	------
5.91	delta-BHC	596	2.3773e-04	1	10	0.03033	0.989	1.6485	0.07838	0.00	------
6.23	Heptachlor	6643	2.7434e-03	1	10	0.03033	0.989	1.6485	0.90451	0.00	------
6.61	Aldrin	3784	1.5716e-03	1	10	0.03033	0.989	1.6485	0.51816	0.00	------
7.48	Heptachlor epoxide	9942	4.5030e-03	1	10	0.03033	0.989	1.6485	1.48467	0.00	------
7.65	gamma-Chlordane	2325	9.7075e-04	1	10	0.03033	0.989	1.6485	0.32006	0.00	------
7.86	alpha-Chlordane	0	0.00000000	1	10	0.03033	0.989	----------	0.00000	--------	------
7.92	4,4'-DDE	500	2.2009e-04	1	10	0.03033	0.989	3.2971	0.07257	0.00	------
8.03	Endosulfan I	400	1.7496e-04	1	10	0.03033	0.989	1.6485	0.05769	0.00	------
8.46	Dieldrin	2034	9.1109e-04	1	10	0.03033	0.989	3.2971	0.30039	0.00	------
8.67	Endrin	3865	1.9024e-03	1	10	0.03033	0.989	3.2971	0.62724	0.00	------
8.81	4,4'-DDD	9942	5.2638e-03	1	10	0.03033	0.989	3.2971	1.73552	0.00	------
9.00	Endosulfan II	6349	3.2780e-03	1	10	0.03033	0.989	3.2971	1.08079	0.00	------
9.24	4,4'-DDT	2641	1.4258e-03	1	10	0.03033	0.989	3.2971	0.47011	0.00	------
9.70	Endrin aldehyde	2648	1.6093e-03	1	10	0.03033	0.989	3.2971	0.53061	0.00	------
9.94	Methoxychlor	0	0.00000000	1	10	0.03033	0.989	----------	0.00000	--------	------
10.36	Endosulfan sulfate	906	5.3168e-04	1	10	0.03033	0.989	3.2971	0.17530	0.00	------
10.69	Endrin ketone	1550	6.9741e-04	1	10	0.03033	0.989	3.2971	0.22994	0.00	------
11.79	Decachlorobiphenyl	127805	0.07525097	1	10	0.03033	0.989	3.2971	24.81074	39.56	62.7

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:27:23
Operator	: sagers	Sample Name	: 1515542013
Sample Number	: 025	Study	: F9M31
AutoSampler	: HP7673A	Rack/Vial	: 0/25
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/19/2015 20:32:39	Cycle	: 9

Raw Data File : \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619B_025.raw <Modified>
Result File : \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619B_025.rst
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Proc Method : \\Alsltws012\TCCS\sagers\GCE31\31150619\31_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619B_025.rst
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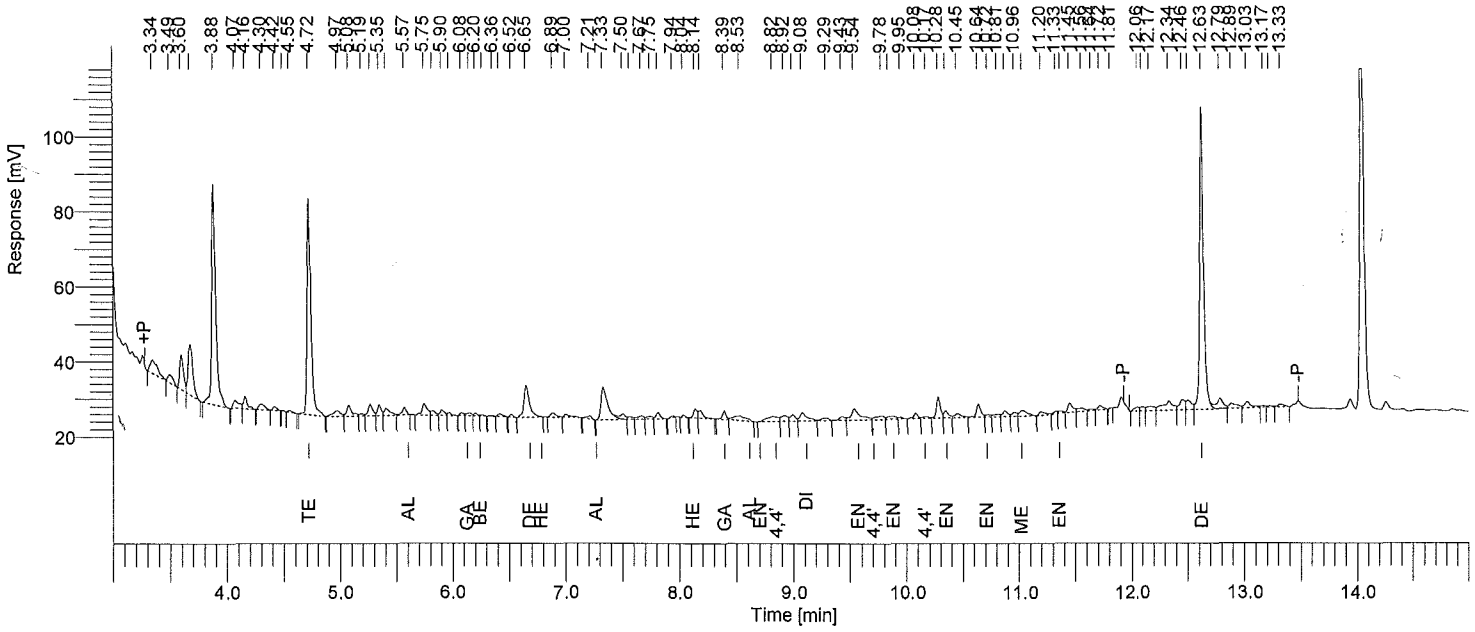

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.72	Tetrachloro-m-xylene	138627	0.03893594	1	10	0.03033	0.989	1.6485	12.83744	19.78	64.9
5.57	alpha-BHC	5147	1.1443e-03	1	10	0.03033	0.989	1.6485	0.37727	0.00	------
6.15	gamma-BHC	2330	5.7027e-04	1	10	0.03033	0.989	1.6485	0.18802	0.00	------
6.27	beta-BHC	540	2.4765e-04	1	10	0.03033	0.989	1.6485	0.08165	0.00	------
6.65	delta-BHC	29199	7.5914e-03	1	10	0.03033	0.989	1.6485	2.50294	0.00	------
6.78	Heptachlor	0	0.00000000	1	10	0.03033	0.989	---------	0.00000	--------	------
7.27	Aldrin	0	0.00000000	1	10	0.03033	0.989	---------	0.00000	--------	------
8.14	Heptachlor epoxide	5316	1.6555e-03	1	10	0.03033	0.989	1.6485	0.54582	0.00	------
8.39	gamma-Chlordane	5430	1.5768e-03	1	10	0.03033	0.989	1.6485	0.51989	0.00	------
8.61	alpha-Chlordane	0	0.00000000	1	10	0.03033	0.989	---------	0.00000	--------	------
8.70	Endosulfan I	0	0.00000000	1	10	0.03033	0.989	---------	0.00000	--------	------
8.82	4,4'-DDE	10113	3.1574e-03	1	10	0.03033	0.989	3.2971	1.04100	0.00	------
9.08	Dieldrin	10381	3.2494e-03	1	10	0.03033	0.989	3.2971	1.07135	0.00	------
9.54	Endrin	17229	6.3062e-03	1	10	0.03033	0.989	3.2971	2.07920	0.00	------
9.71	4,4'-DDD	0	0.00000000	1	10	0.03033	0.989	---------	0.00000	--------	------
9.84	Endosulfan II	4493	1.6872e-03	1	10	0.03033	0.989	3.2971	0.55629	0.00	------
10.17	4,4'-DDT	1834	6.9219e-04	1	10	0.03033	0.989	3.2971	0.22822	0.00	------
10.35	Endrin aldehyde	5471	2.5166e-03	1	10	0.03033	0.989	3.2971	0.82973	0.00	------
10.72	Endosulfan sulfate	1866	7.9977e-04	1	10	0.03033	0.989	3.2971	0.26369	0.00	------
11.03	Methoxychlor	7630	6.3426e-03	1	10	0.03033	0.989	16.4853	2.09118	0.00	------
11.37	Endrin ketone	1777	6.2345e-04	1	10	0.03033	0.989	3.2971	0.20556	0.00	------
12.63	Decachlorobiphenyl	195104	0.08549256	1	10	0.03033	0.989	3.2971	28.18746	39.56	71.2

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M32

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542014

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 31150619A026,31150619B026

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/19/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 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	JB
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	0.068	JP
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	0.14	JBP
72-55-9	4,4'-DDE	0.040	JP
72-20-8	Endrin	0.66	JP
33213-65-9	Endosulfan II	0.26	JP
72-54-8	4,4'-DDD	0.27	JP
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	0.23	JP
72-43-5	Methoxychlor	20.	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	0.23	JP
8001-35-2	Toxaphene	200	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:25:40
Operator	: sagers	Sample Name	: 1515542014
Sample Number	: 026	Study	: F9M32
AutoSampler	: HP7673A	Rack/Vial	: 0/26
Instrument Name	: GCE31	Channel	: A
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 20:32:39	Dilution Factor	: 1.00
		Cycle	: 10

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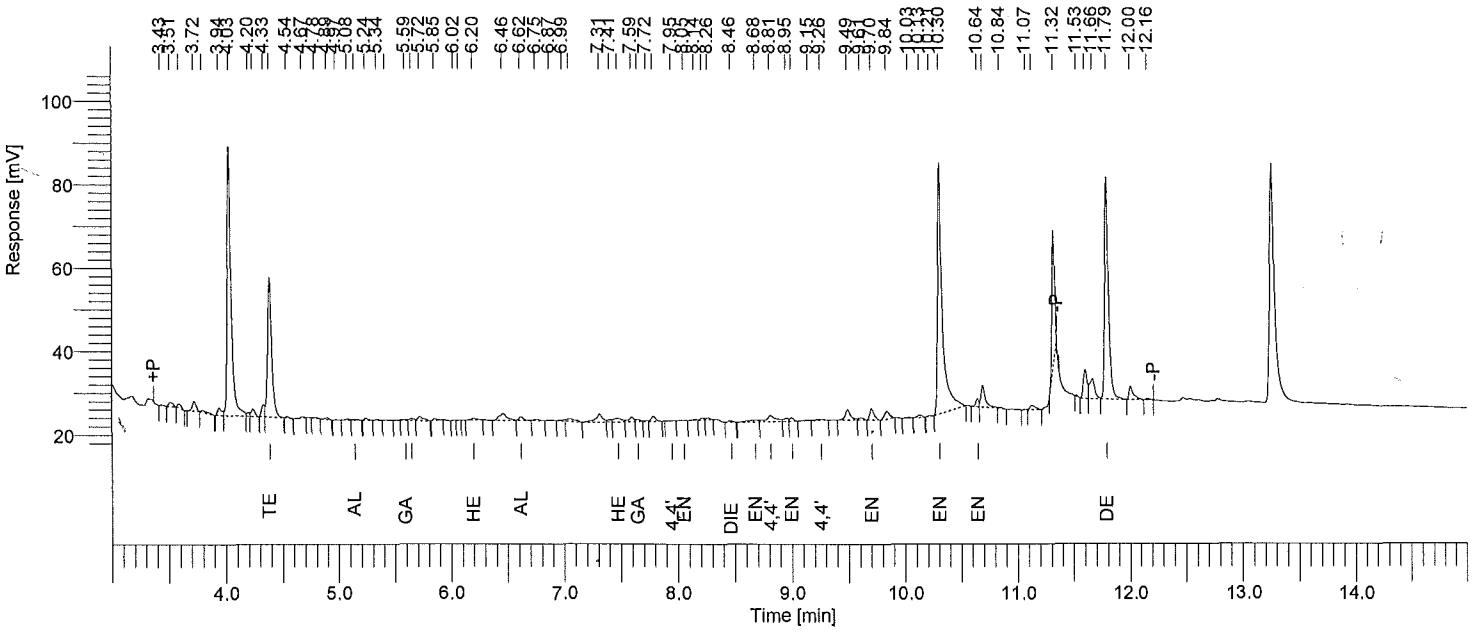

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.38	Tetrachloro-m-xylene	85181	0.03873820	1	10	0.03006	0.998	1.6633	12.88696	19.96	64.6
5.14	alpha-BHC	843	3.0339e-04	1	10	0.03006	0.998	1.6633	0.10093	0.00	------
5.59	gamma-BHC	451	1.7399e-04	1	10	0.03006	0.998	1.6633	0.05788	0.00	------
5.64	beta-BHC	1262	8.9472e-04	1	10	0.03006	0.998	1.6633	0.29765	0.00	------
5.92	delta-BHC	0	0.00000000	1	10	0.03006	0.998	----------	0.00000	--------	------
6.20	Heptachlor	1434	5.9208e-04	1	10	0.03006	0.998	1.6633	0.19697	0.00	------
6.62	Aldrin	2909	1.2081e-03	1	10	0.03006	0.998	1.6633	0.40189	0.00	------
7.47	Heptachlor epoxide	4274	1.9358e-03	1	10	0.03006	0.998	1.6633	0.64399	0.00	------
7.65	gamma-Chlordane	1390	5.8030e-04	1	10	0.03006	0.998	1.6633	0.19305	0.00	------
7.86	alpha-Chlordane	0	0.00000000	1	10	0.03006	0.998	----------	0.00000	--------	------
7.95	4,4'-DDE	235	1.0362e-04	1	10	0.03006	0.998	3.3267	0.03447	0.00	------
8.05	Endosulfan I	238	1.0427e-04	1	10	0.03006	0.998	1.6633	0.03469	0.00	------
8.46	Dieldrin	820	3.6732e-04	1	10	0.03006	0.998	3.3267	0.12219	0.00	------
8.68	Endrin	3424	1.6857e-03	1	10	0.03006	0.998	3.3267	0.56077	0.00	------
8.81	4,4'-DDD	8517	4.5098e-03	1	10	0.03006	0.998	3.3267	1.50026	0.00	------
9.00	Endosulfan II	1937	9.9989e-04	1	10	0.03006	0.998	3.3267	0.33263	0.00	------
9.26	4,4'-DDT	1100	5.9365e-04	1	10	0.03006	0.998	3.3267	0.19749	0.00	------
9.70	Endrin aldehyde	7054	4.2862e-03	1	10	0.03006	0.998	3.3267	1.42589	0.00	------
9.94	Methoxychlor	0	0.00000000	1	10	0.03006	0.998	----------	0.00000	--------	------
10.30	Endosulfan sulfate	178458	0.10475778	1	10	0.03006	0.998	3.3267	34.84956	0.00	------
10.64	Endrin ketone	3524	1.5858e-03	1	10	0.03006	0.998	3.3267	0.52756	0.00	------
11.79	Decachlorobiphenyl	124767	0.07346230	1	10	0.03006	0.998	3.3267	24.43856	39.92	61.2

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:27:25
Operator	: sagers	Sample Name	: 1515542014
Sample Number	: 026	Study	: F9M32
AutoSampler	: HP7673A	Rack/Vial	: 0/26
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 20:53:09	Dilution Factor	: 1.00
		Cycle	: 10

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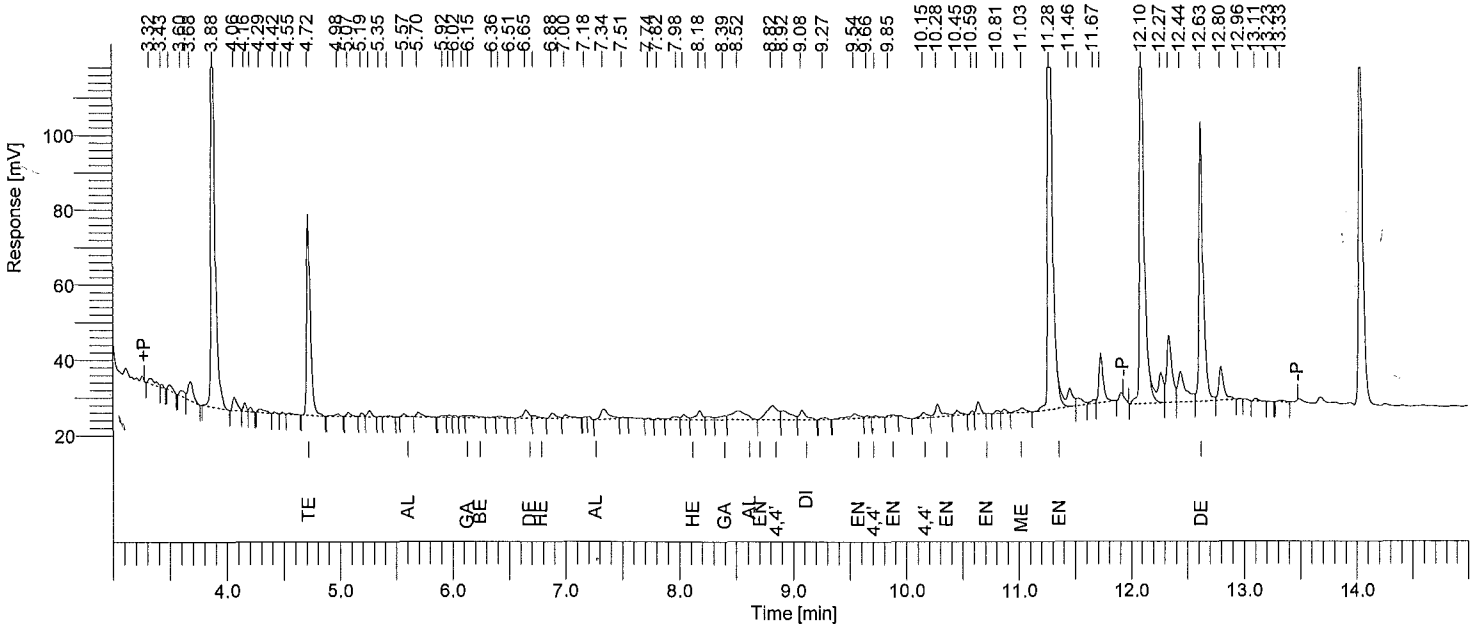

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.72	Tetrachloro-m-xylene	125009	0.03511110	1	10	0.03006	0.998	1.6633	11.68034	19.96	58.5
5.57	alpha-BHC	1556	3.4596e-04	1	10	0.03006	0.998	1.6633	0.11509	0.00	------
6.15	gamma-BHC	3879	9.4965e-04	1	10	0.03006	0.998	1.6633	0.31592	0.00	------
6.24	beta-BHC	0	0.00000000	1	10	0.03006	0.998	---------	0.00000	--------	------
6.65	delta-BHC	7676	1.9957e-03	1	10	0.03006	0.998	1.6633	0.66391	0.00	------
6.78	Heptachlor	0	0.00000000	1	10	0.03006	0.998	---------	0.00000	--------	------
7.27	Aldrin	0	0.00000000	1	10	0.03006	0.998	---------	0.00000	--------	------
8.12	Heptachlor epoxide	0	0.00000000	1	10	0.03006	0.998	---------	0.00000	--------	------
8.39	gamma-Chlordane	5430	1.5767e-03	1	10	0.03006	0.998	1.6633	0.52452	0.00	------
8.61	alpha-Chlordane	0	0.00000000	1	10	0.03006	0.998	---------	0.00000	--------	------
8.70	Endosulfan I	0	0.00000000	1	10	0.03006	0.998	---------	0.00000	--------	------
8.82	4,4'-DDE	25221	7.8738e-03	1	10	0.03006	0.998	3.3267	2.61935	0.00	------
9.08	Dieldrin	10268	3.2142e-03	1	10	0.03006	0.998	3.3267	1.06925	0.00	------
9.54	Endrin	8330	3.0492e-03	1	10	0.03006	0.998	3.3267	1.01436	0.00	------
9.73	4,4'-DDD	1755	6.9273e-04	1	10	0.03006	0.998	3.3267	0.23045	0.00	------
9.85	Endosulfan II	1747	6.5591e-04	1	10	0.03006	0.998	3.3267	0.21820	0.00	------
10.15	4,4'-DDT	6042	2.2803e-03	1	10	0.03006	0.998	3.3267	0.75857	0.00	------
10.35	Endrin aldehyde	0	0.00000000	1	10	0.03006	0.998	---------	0.00000	--------	------
10.71	Endosulfan sulfate	0	0.00000000	1	10	0.03006	0.998	---------	0.00000	--------	------
11.03	Methoxychlor	6320	5.2540e-03	1	10	0.03006	0.998	16.6334	1.74785	0.00	------
11.35	Endrin ketone	0	0.00000000	1	10	0.03006	0.998	---------	0.00000	--------	------
12.63	Decachlorobiphenyl	192499	0.08435116	1	10	0.03006	0.998	3.3267	28.06093	39.92	70.3

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M33

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542015

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 31150619A027,31150619B027

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/19/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.064	JBP
319-85-7	beta-BHC	0.32	JP
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	1.9	U
1024-57-3	Heptachlor epoxide	0.51	JB
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	0.42	JB
72-55-9	4,4'-DDE	0.25	JP
72-20-8	Endrin	3.7	U
33213-65-9	Endosulfan II	0.042	JP
72-54-8	4,4'-DDD	0.79	JP
1031-07-8	Endosulfan sulfate	0.057	JP
50-29-3	4,4'-DDT	0.16	JP
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	3.7	U
7421-93-4	Endrin aldehyde	0.42	JBP
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	0.058	JP
8001-35-2	Toxaphene	190	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:25:43
Operator	: sagers	Sample Name	: 1515542015
Sample Number	: 027	Study	: F9M33
AutoSampler	: HP7673A	Rack/Vial	: 0/27
Instrument Name	: GCE31	Channel	: A
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/19/2015 20:53:09	Cycle	: 11

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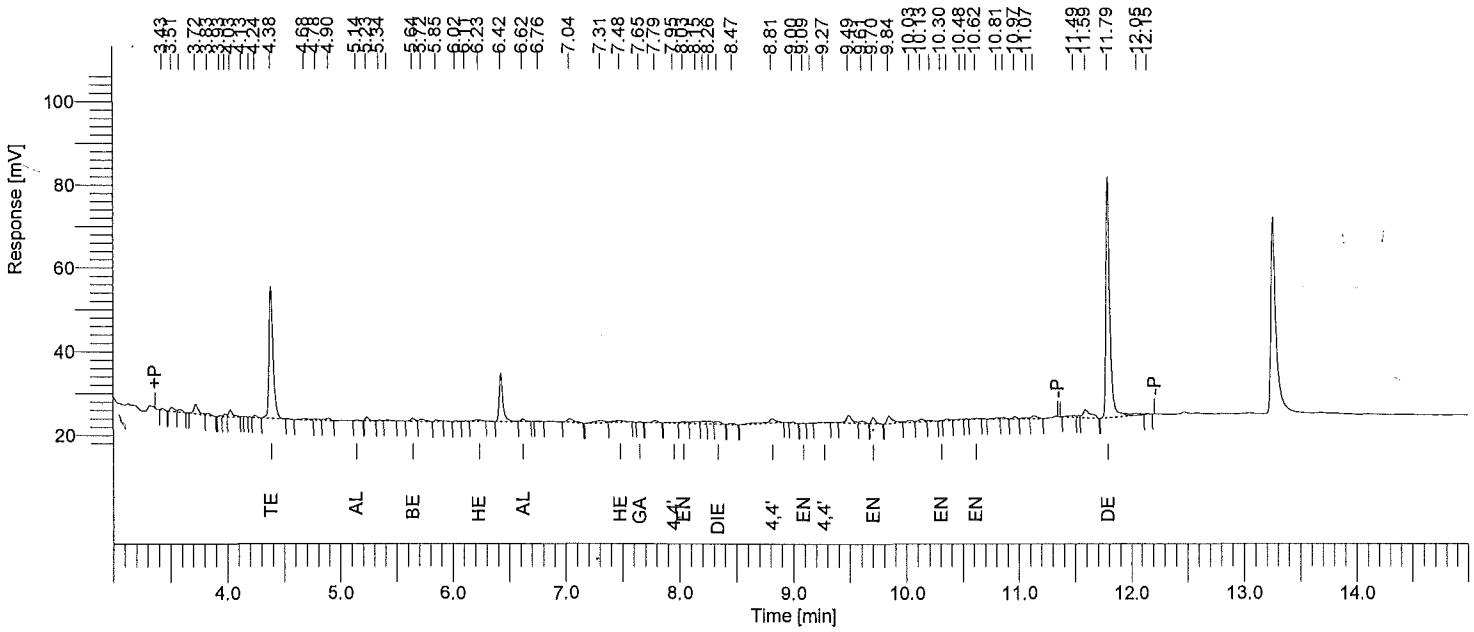

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.38	Tetrachloro-m-xylene	78019	0.03548103	1	10	0.03015	0.995	1.6584	11.76817	19.90	59.1
5.14	alpha-BHC	469	1.6894e-04	1	10	0.03015	0.995	1.6584	0.05603	0.00	------
5.56	gamma-BHC	0	0.00000000	1	10	0.03015	0.995	----------	0.00000	--------	------
5.64	beta-BHC	1818	1.2886e-03	1	10	0.03015	0.995	1.6584	0.42739	0.00	------
5.92	delta-BHC	0	0.00000000	1	10	0.03015	0.995	----------	0.00000	--------	------
6.23	Heptachlor	1438	5.9400e-04	1	10	0.03015	0.995	1.6584	0.19702	0.00	------
6.62	Aldrin	1558	6.4698e-04	1	10	0.03015	0.995	1.6584	0.21459	0.00	------
7.48	Heptachlor epoxide	2993	1.3557e-03	1	10	0.03015	0.995	1.6584	0.44967	0.00	------
7.65	gamma-Chlordane	366	1.5280e-04	1	10	0.03015	0.995	1.6584	0.05068	0.00	------
7.86	alpha-Chlordane	0	0.00000000	1	10	0.03015	0.995	----------	0.00000	--------	------
7.95	4,4'-DDE	1497	6.5931e-04	1	10	0.03015	0.995	3.3167	0.21868	0.00	------
8.03	Endosulfan I	1777	7.7779e-04	1	10	0.03015	0.995	1.6584	0.25797	0.00	------
8.34	Dieldrin	2461	1.1024e-03	1	10	0.03015	0.995	3.3167	0.36565	0.00	------
8.74	Endrin	0	0.00000000	1	10	0.03015	0.995	----------	0.00000	--------	------
8.81	4,4'-DDD	6680	3.5368e-03	1	10	0.03015	0.995	3.3167	1.17306	0.00	------
9.09	Endosulfan II	214	1.1062e-04	1	10	0.03015	0.995	3.3167	0.03669	0.00	------
9.27	4,4'-DDT	788	4.2554e-04	1	10	0.03015	0.995	3.3167	0.14114	0.00	------
9.70	Endrin aldehyde	3523	2.1410e-03	1	10	0.03015	0.995	3.3167	0.71010	0.00	------
9.94	Methoxychlor	0	0.00000000	1	10	0.03015	0.995	----------	0.00000	--------	------
10.30	Endosulfan sulfate	258	1.5123e-04	1	10	0.03015	0.995	3.3167	0.05016	0.00	------
10.62	Endrin ketone	807	3.6325e-04	1	10	0.03015	0.995	3.3167	0.12048	0.00	------
11.79	Decachlorobiphenyl	137083	0.08071371	1	10	0.03015	0.995	3.3167	26.77072	39.80	67.3

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:27:27
Operator	: sagers	Sample Name	: 1515542015
Sample Number	: 027	Study	: F9M33
AutoSampler	: HP7673A	Rack/Vial	: 0/27
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/19/2015 21:13:23	Cycle	: 11

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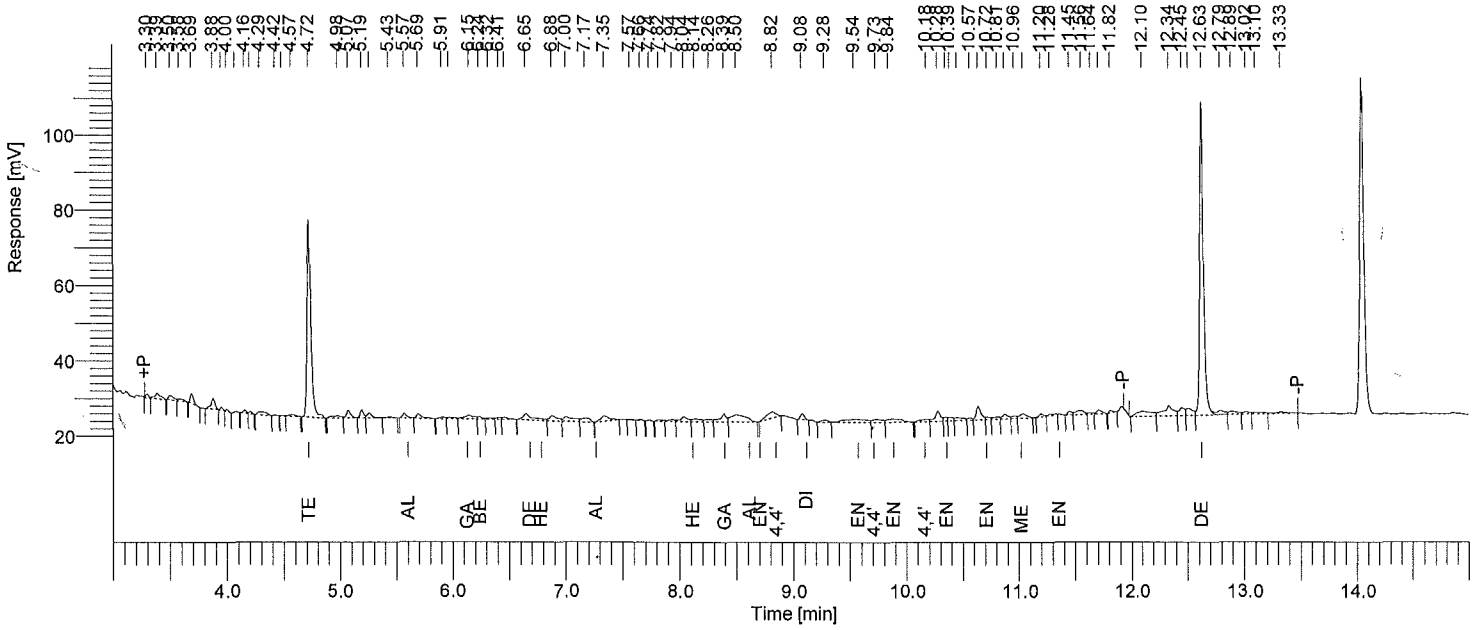

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.72	Tetrachloro-m-xylene	124125	0.03486282	1	10	0.03015	0.995	1.6584	11.56313	19.90	58.1
5.57	alpha-BHC	2978	6.6211e-04	1	10	0.03015	0.995	1.6584	0.21961	0.00	------
6.15	gamma-BHC	6235	1.5263e-03	1	10	0.03015	0.995	1.6584	0.50623	0.00	------
6.24	beta-BHC	1833	8.4022e-04	1	10	0.03015	0.995	1.6584	0.27868	0.00	------
6.65	delta-BHC	9834	2.5567e-03	1	10	0.03015	0.995	1.6584	0.84801	0.00	------
6.78	Heptachlor	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
7.27	Aldrin	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
8.14	Heptachlor epoxide	4312	1.3428e-03	1	10	0.03015	0.995	1.6584	0.44538	0.00	------
8.39	gamma-Chlordane	8756	2.5426e-03	1	10	0.03015	0.995	1.6584	0.84331	0.00	------
8.61	alpha-Chlordane	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
8.70	Endosulfan I	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
8.82	4,4'-DDE	10111	3.1566e-03	1	10	0.03015	0.995	3.3167	1.04696	0.00	------
9.08	Dieldrin	3882	1.2151e-03	1	10	0.03015	0.995	3.3167	0.40302	0.00	------
9.54	Endrin	12133	4.4411e-03	1	10	0.03015	0.995	3.3167	1.47300	0.00	------
9.73	4,4'-DDD	5287	2.0866e-03	1	10	0.03015	0.995	3.3167	0.69208	0.00	------
9.84	Endosulfan II	8333	3.1291e-03	1	10	0.03015	0.995	3.3167	1.03784	0.00	------
10.18	4,4'-DDT	3641	1.3742e-03	1	10	0.03015	0.995	3.3167	0.45580	0.00	------
10.35	Endrin aldehyde	2453	1.1285e-03	1	10	0.03015	0.995	3.3167	0.37431	0.00	------
10.72	Endosulfan sulfate	1879	8.0552e-04	1	10	0.03015	0.995	3.3167	0.26717	0.00	------
11.04	Methoxychlor	5255	4.3688e-03	1	10	0.03015	0.995	16.5837	1.44904	0.00	------
11.35	Endrin ketone	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
12.63	Decachlorobiphenyl	195413	0.08562792	1	10	0.03015	0.995	3.3167	28.40064	39.80	71.4

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M34

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542016

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 31150619A028,31150619B028

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/19/2015

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	0.28	JBP
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	0.17	JBP
58-89-9	gamma-BHC (Lindane)	0.25	JP
76-44-8	Heptachlor	0.28	JP
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	0.20	JBP
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	0.34	JBP
72-55-9	4,4'-DDE	1.8	JP
72-20-8	Endrin	0.48	JP
33213-65-9	Endosulfan II	0.72	J
72-54-8	4,4'-DDD	0.66	JP
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	0.51	J
72-43-5	Methoxychlor	21.	U
53494-70-5	Endrin ketone	0.29	JP
7421-93-4	Endrin aldehyde	0.33	JBP
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	0.73	JP
8001-35-2	Toxaphene	210	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:25:45
Operator	: sagers	Sample Name	: 1515542016
Sample Number	: 028	Study	: F9M34
AutoSampler	: HP7673A	Rack/Vial	: 0/28
Instrument Name	: GCE31	Channel	: A
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 21:13:23	Dilution Factor	: 1.00
		Cycle	: 12

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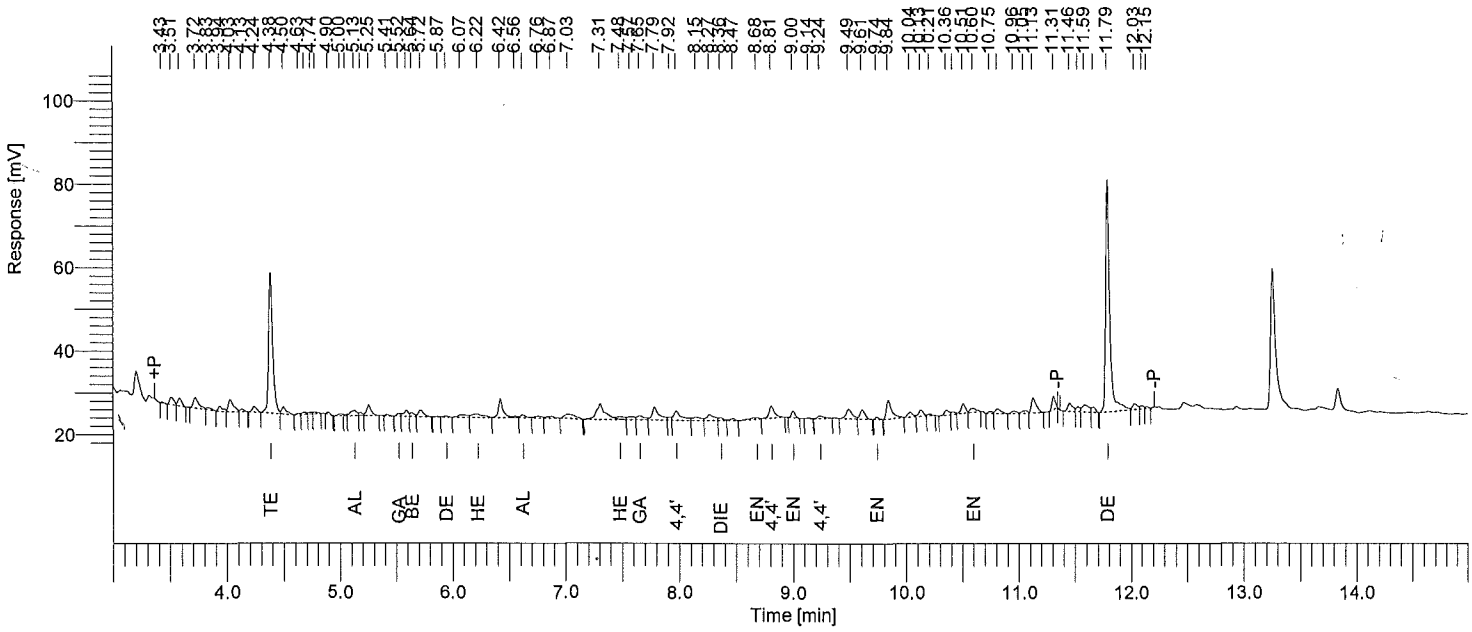
Sequence File : \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619_SOM012_PEST_F9M21_A.seq



Instrument ID: GC31A 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 %
4.38	Tetrachloro-m-xylene	85375	0.03882662	1	10	0.03005	0.998	1.6639	12.92067	19.97	64.7
5.13	alpha-BHC	4953	1.7834e-03	1	10	0.03005	0.998	1.6639	0.59349	0.00	------
5.52	gamma-BHC	1595	6.1469e-04	1	10	0.03005	0.998	1.6639	0.20456	0.00	------
5.64	beta-BHC	2461	1.7445e-03	1	10	0.03005	0.998	1.6639	0.58052	0.00	------
5.94	delta-BHC	1050	4.1890e-04	1	10	0.03005	0.998	1.6639	0.13940	0.00	------
6.22	Heptachlor	5927	2.4474e-03	1	10	0.03005	0.998	1.6639	0.81445	0.00	------
6.62	Aldrin	2491	1.0345e-03	1	10	0.03005	0.998	1.6639	0.34426	0.00	------
7.48	Heptachlor epoxide	3180	1.4402e-03	1	10	0.03005	0.998	1.6639	0.47926	0.00	------
7.65	gamma-Chlordane	4319	1.8031e-03	1	10	0.03005	0.998	1.6639	0.60003	0.00	------
7.86	alpha-Chlordane	0	0.00000000	1	10	0.03005	0.998	----------	0.00000	--------	------
7.98	4,4'-DDE	9815	4.3220e-03	1	10	0.03005	0.998	3.3278	1.43827	0.00	------
8.06	Endosulfan I	0	0.00000000	1	10	0.03005	0.998	----------	0.00000	--------	------
8.36	Dieldrin	1872	8.3873e-04	1	10	0.03005	0.998	3.3278	0.27911	0.00	------
8.68	Endrin	2415	1.1889e-03	1	10	0.03005	0.998	3.3278	0.39564	0.00	------
8.81	4,4'-DDD	9473	5.0157e-03	1	10	0.03005	0.998	3.3278	1.66913	0.00	------
9.00	Endosulfan II	3635	1.8769e-03	1	10	0.03005	0.998	3.3278	0.62459	0.00	------
9.24	4,4'-DDT	2440	1.3176e-03	1	10	0.03005	0.998	3.3278	0.43846	0.00	------
9.74	Endrin aldehyde	1323	8.0421e-04	1	10	0.03005	0.998	3.3278	0.26762	0.00	------
9.94	Methoxychlor	0	0.00000000	1	10	0.03005	0.998	----------	0.00000	--------	------
10.29	Endosulfan sulfate	0	0.00000000	1	10	0.03005	0.998	----------	0.00000	--------	------
10.60	Endrin ketone	3977	1.7898e-03	1	10	0.03005	0.998	3.3278	0.59560	0.00	------
11.79	Decachlorobiphenyl	140663	0.08282164	1	10	0.03005	0.998	3.3278	27.56128	39.93	69.0

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:27:29
Operator	: sagers	Sample Name	: 1515542016
Sample Number	: 028	Study	: F9M34
AutoSampler	: HP7673A	Rack/Vial	: 0/28
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/19/2015 21:33:39	Cycle	: 12

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Report Format File: \\Alsltws012\TCCS\sagers\GCE31\31150618\31_RPT_2UL\31_som_soil_sample_b.rpt
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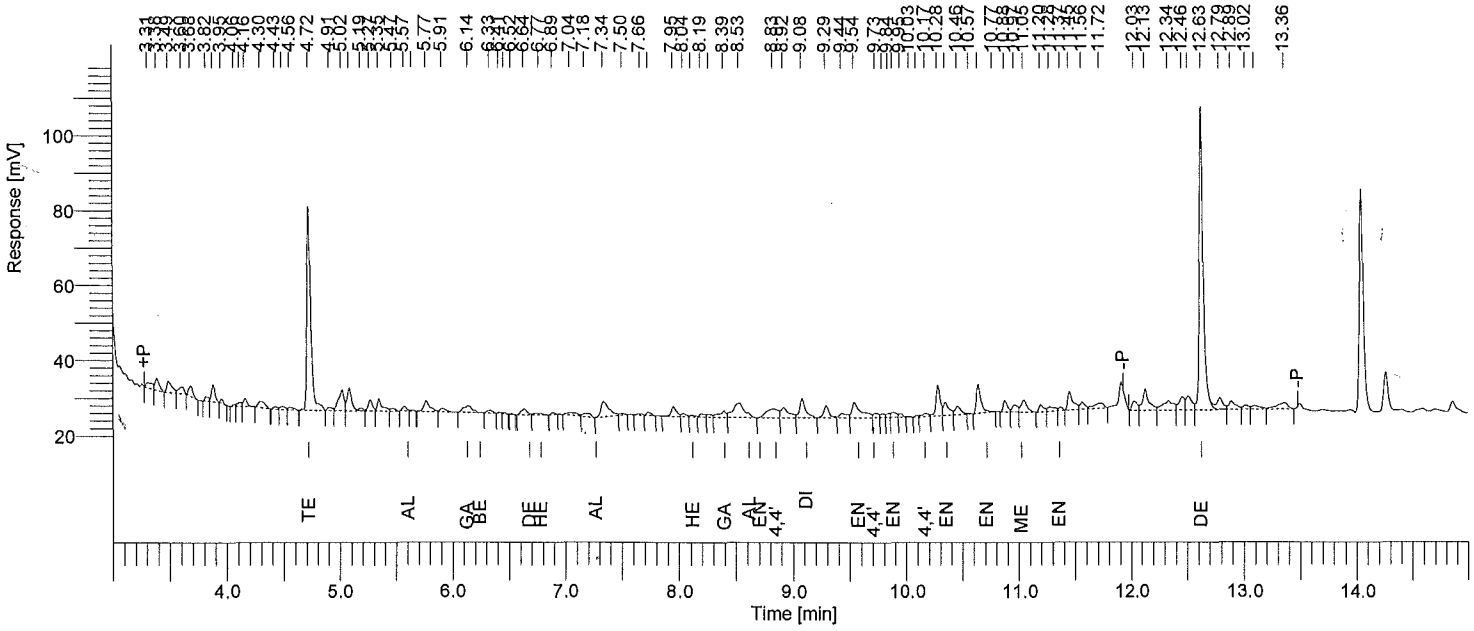

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.72	Tetrachloro-m-xylene	132122	0.03710886	1	10	0.03005	0.998	1.6639	12.34904	19.97	61.8
5.57	alpha-BHC	3072	6.8291e-04	1	10	0.03005	0.998	1.6639	0.22726	0.00	------
6.14	gamma-BHC	9759	2.3889e-03	1	10	0.03005	0.998	1.6639	0.79498	0.00	------
6.24	beta-BHC	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
6.64	delta-BHC	6052	1.5736e-03	1	10	0.03005	0.998	1.6639	0.52365	0.00	------
6.77	Heptachlor	2544	6.7961e-04	1	10	0.03005	0.998	1.6639	0.22616	0.00	------
7.27	Aldrin	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
8.11	Heptachlor epoxide	1601	4.9858e-04	1	10	0.03005	0.998	1.6639	0.16592	0.00	------
8.39	gamma-Chlordane	8297	2.4094e-03	1	10	0.03005	0.998	1.6639	0.80179	0.00	------
8.61	alpha-Chlordane	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
8.70	Endosulfan I	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
8.83	4,4'-DDE	17733	5.5362e-03	1	10	0.03005	0.998	3.3278	1.84232	0.00	------
9.08	Dieldrin	18539	5.8032e-03	1	10	0.03005	0.998	3.3278	1.93118	0.00	------
9.54	Endrin	22395	8.1971e-03	1	10	0.03005	0.998	3.3278	2.72783	0.00	------
9.73	4,4'-DDD	4150	1.6380e-03	1	10	0.03005	0.998	3.3278	0.54509	0.00	------
9.88	Endosulfan II	4691	1.7614e-03	1	10	0.03005	0.998	3.3278	0.58617	0.00	------
10.17	4,4'-DDT	3327	1.2559e-03	1	10	0.03005	0.998	3.3278	0.41793	0.00	------
10.35	Endrin aldehyde	12213	5.6184e-03	1	10	0.03005	0.998	3.3278	1.86967	0.00	------
10.77	Endosulfan sulfate	213	9.1158e-05	1	10	0.03005	0.998	3.3278	0.03034	0.00	------
11.05	Methoxychlor	12032	0.01000209	1	10	0.03005	0.998	16.6389	3.32848	0.00	------
11.37	Endrin ketone	2024	7.0990e-04	1	10	0.03005	0.998	3.3278	0.23624	0.00	------
12.63	Decachlorobiphenyl	201155	0.08814404	1	10	0.03005	0.998	3.3278	29.33246	39.93	73.5

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M35

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542017

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 31150619A029,31150619B029

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/19/2015

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	0.30	JBP
319-85-7	beta-BHC	0.61	J
319-86-8	delta-BHC	0.18	JBP
58-89-9	gamma-BHC (Lindane)	0.47	JP
76-44-8	Heptachlor	0.32	JP
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	0.61	JBP
72-55-9	4,4'-DDE	0.40	JP
72-20-8	Endrin	0.83	JP
33213-65-9	Endosulfan II	1.0	J
72-54-8	4,4'-DDD	0.54	JP
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	0.30	J
72-43-5	Methoxychlor	21.	U
53494-70-5	Endrin ketone	0.33	JP
7421-93-4	Endrin aldehyde	0.47	JBP
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	0.24	JP
8001-35-2	Toxaphene	210	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:25:47
Operator	: sagers	Sample Name	: 1515542017
Sample Number	: 029	Study	: F9M35
AutoSampler	: HP7673A	Rack/Vial	: 0/29
Instrument Name	: GCE31	Channel	: A
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/19/2015 21:33:39	Cycle	: 13

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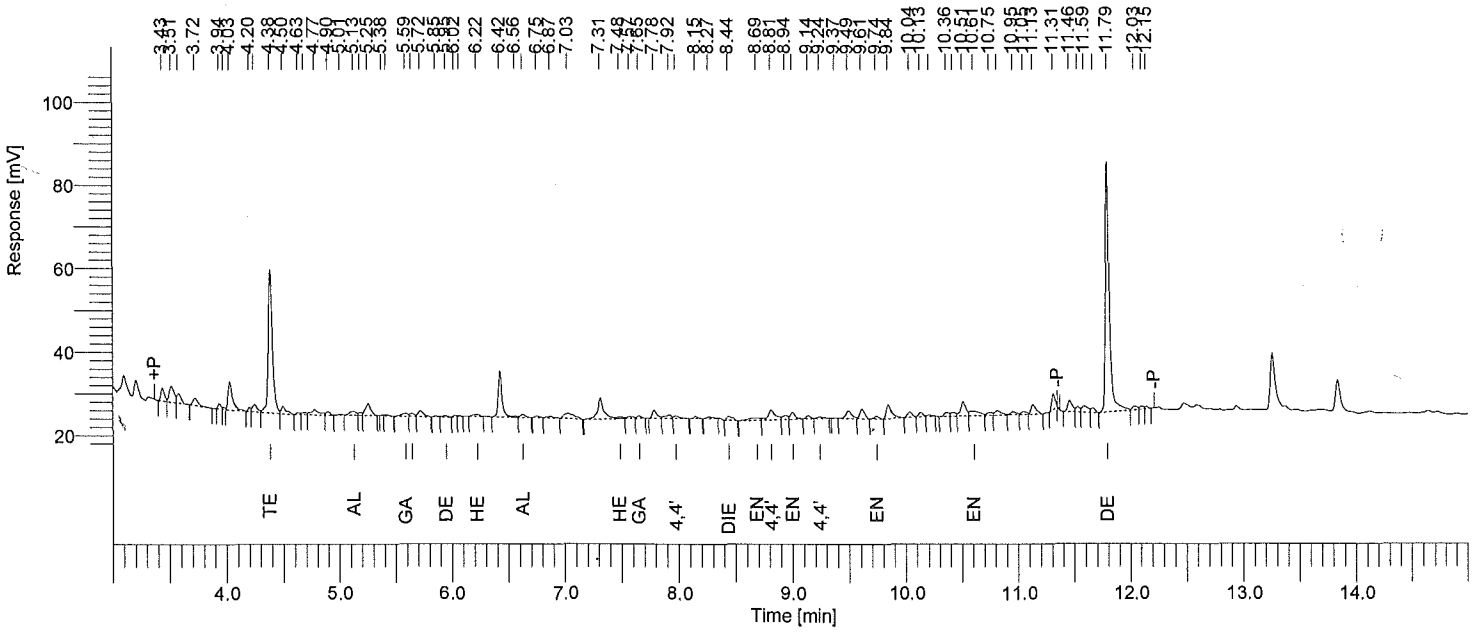

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.38	Tetrachloro-m-xylene	88635	0.04030884	1	10	0.03005	0.998	1.6639	13.41392	19.97	67.2
5.13	alpha-BHC	4275	1.5393e-03	1	10	0.03005	0.998	1.6639	0.51223	0.00	------
5.59	gamma-BHC	2972	1.1453e-03	1	10	0.03005	0.998	1.6639	0.38113	0.00	------
5.64	beta-BHC	2106	1.4932e-03	1	10	0.03005	0.998	1.6639	0.49690	0.00	------
5.95	delta-BHC	1091	4.3540e-04	1	10	0.03005	0.998	1.6639	0.14489	0.00	------
6.22	Heptachlor	1881	7.7672e-04	1	10	0.03005	0.998	1.6639	0.25848	0.00	------
6.62	Aldrin	2186	9.0800e-04	1	10	0.03005	0.998	1.6639	0.30216	0.00	------
7.48	Heptachlor epoxide	1836	8.3149e-04	1	10	0.03005	0.998	1.6639	0.27670	0.00	------
7.65	gamma-Chlordane	1438	6.0059e-04	1	10	0.03005	0.998	1.6639	0.19986	0.00	------
7.86	alpha-Chlordane	0	0.00000000	1	10	0.03005	0.998	----------	0.00000	--------	------
7.97	4,4'-DDE	2224	9.7929e-04	1	10	0.03005	0.998	3.3278	0.32589	0.00	------
8.06	Endosulfan I	0	0.00000000	1	10	0.03005	0.998	----------	0.00000	--------	------
8.44	Dieldrin	3352	1.5016e-03	1	10	0.03005	0.998	3.3278	0.49971	0.00	------
8.69	Endrin	4161	2.0481e-03	1	10	0.03005	0.998	3.3278	0.68157	0.00	------
8.81	4,4'-DDD	10823	5.7306e-03	1	10	0.03005	0.998	3.3278	1.90703	0.00	------
9.00	Endosulfan II	4883	2.5211e-03	1	10	0.03005	0.998	3.3278	0.83898	0.00	------
9.24	4,4'-DDT	1411	7.6159e-04	1	10	0.03005	0.998	3.3278	0.25344	0.00	------
9.74	Endrin aldehyde	1901	1.1554e-03	1	10	0.03005	0.998	3.3278	0.38449	0.00	------
9.94	Methoxychlor	0	0.00000000	1	10	0.03005	0.998	----------	0.00000	--------	------
10.29	Endosulfan sulfate	0	0.00000000	1	10	0.03005	0.998	----------	0.00000	--------	------
10.61	Endrin ketone	7511	3.3799e-03	1	10	0.03005	0.998	3.3278	1.12476	0.00	------
11.79	Decachlorobiphenyl	146925	0.08650895	1	10	0.03005	0.998	3.3278	28.78833	39.93	72.1

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:27:31
Operator	: sagers	Sample Name	: 1515542017
Sample Number	: 029	Study	: F9M35
AutoSampler	: HP7673A	Rack/Vial	: 0/29
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 21:53:51	Dilution Factor	: 1.00
		Cycle	: 13

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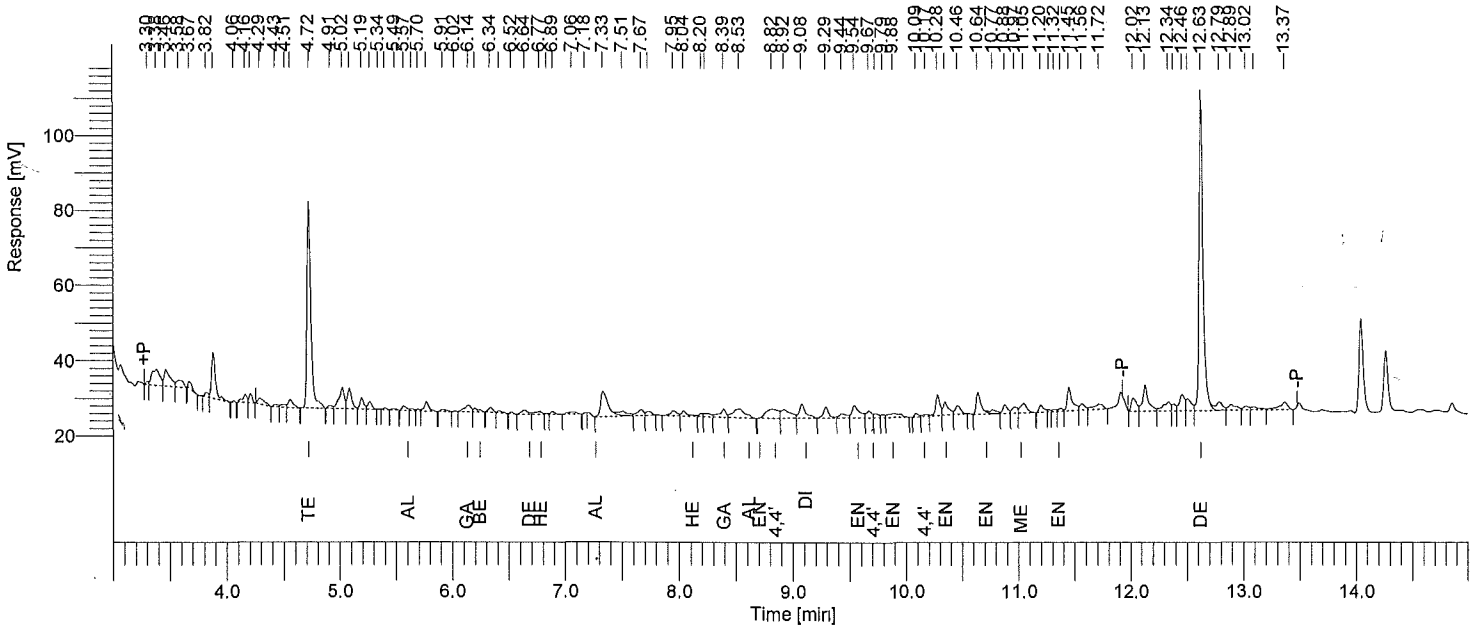
Report Format File: \\Alsltws012\TCCS\sagers\GCE31\31150618\31_RPT_2UL\31_som_soil_sample_b.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619_SOM012_PEST_F9M21_A.seq



Instrument ID: GC31B 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 %
4.72	Tetrachloro-m-xylene	133462	0.03748533	1	10	0.03005	0.998	1.6639	12.47432	19.97	62.5
5.57	alpha-BHC	3369	7.4904e-04	1	10	0.03005	0.998	1.6639	0.24926	0.00	------
6.14	gamma-BHC	7267	1.7790e-03	1	10	0.03005	0.998	1.6639	0.59201	0.00	------
6.20	beta-BHC	3316	1.5200e-03	1	10	0.03005	0.998	1.6639	0.50584	0.00	------
6.64	delta-BHC	4743	1.2331e-03	1	10	0.03005	0.998	1.6639	0.41037	0.00	------
6.77	Heptachlor	3650	9.7507e-04	1	10	0.03005	0.998	1.6639	0.32448	0.00	------
7.27	Aldrin	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
8.12	Heptachlor epoxide	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
8.39	gamma-Chlordane	8920	2.5902e-03	1	10	0.03005	0.998	1.6639	0.86196	0.00	------
8.61	alpha-Chlordane	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
8.70	Endosulfan I	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
8.82	4,4'-DDE	19386	6.0522e-03	1	10	0.03005	0.998	3.3278	2.01404	0.00	------
9.08	Dieldrin	15048	4.7104e-03	1	10	0.03005	0.998	3.3278	1.56752	0.00	------
9.54	Endrin	15135	5.5399e-03	1	10	0.03005	0.998	3.3278	1.84355	0.00	------
9.73	4,4'-DDD	3383	1.3353e-03	1	10	0.03005	0.998	3.3278	0.44435	0.00	------
9.88	Endosulfan II	7879	2.9583e-03	1	10	0.03005	0.998	3.3278	0.98447	0.00	------
10.17	4,4'-DDT	1963	7.4101e-04	1	10	0.03005	0.998	3.3278	0.24659	0.00	------
10.35	Endrin aldehyde	11961	5.5023e-03	1	10	0.03005	0.998	3.3278	1.83103	0.00	------
10.77	Endosulfan sulfate	4832	2.0709e-03	1	10	0.03005	0.998	3.3278	0.68914	0.00	------
11.05	Methoxychlor	10961	9.1118e-03	1	10	0.03005	0.998	16.6389	3.03223	0.00	------
11.38	Endrin ketone	2279	7.9937e-04	1	10	0.03005	0.998	3.3278	0.26601	0.00	------
12.63	Decachlorobiphenyl	211099	0.09250119	1	10	0.03005	0.998	3.3278	30.78243	39.93	77.1

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M37

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542018

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 31150619A030,31150619B030

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/19/2015

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	0.23	JBP
319-85-7	beta-BHC	0.47	JP
319-86-8	delta-BHC	0.21	JBP
58-89-9	gamma-BHC (Lindane)	0.11	JP
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	0.25	JP
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	0.24	JP
72-20-8	Endrin	1.3	JP
33213-65-9	Endosulfan II	0.85	JP
72-54-8	4,4'-DDD	0.80	JP
1031-07-8	Endosulfan sulfate	4.6	P
50-29-3	4,4'-DDT	1.1	J
72-43-5	Methoxychlor	20.	U
53494-70-5	Endrin ketone	1.4	JP
7421-93-4	Endrin aldehyde	0.23	JBP
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	0.54	JP
8001-35-2	Toxaphene	200	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:25:49
Operator	: sagers	Sample Name	: 1515542018
Sample Number	: 030	Study	: F9M37
AutoSampler	: HP7673A	Rack/Vial	: 0/30
Instrument Name	: GCE31	Channel	: A
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 21:53:51	Dilution Factor	: 1.00
		Cycle	: 14

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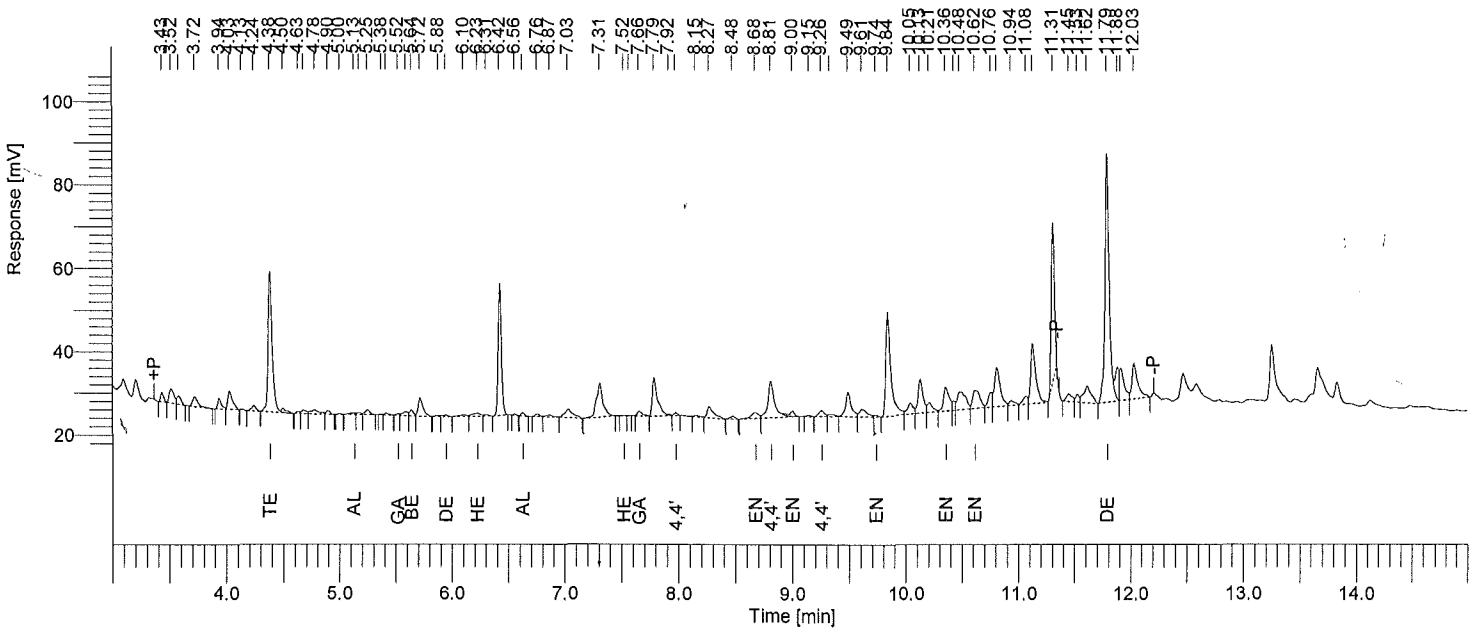

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.38	Tetrachloro-m-xylene	85068	0.03868705	1	10	0.03005	0.998	1.6639	12.87423	19.97	64.5
5.13	alpha-BHC	1617	5.8223e-04	1	10	0.03005	0.998	1.6639	0.19375	0.00	------
5.52	gamma-BHC	734	2.8287e-04	1	10	0.03005	0.998	1.6639	0.09413	0.00	------
5.64	beta-BHC	3423	2.4264e-03	1	10	0.03005	0.998	1.6639	0.80744	0.00	------
5.95	delta-BHC	1384	5.5213e-04	1	10	0.03005	0.998	1.6639	0.18374	0.00	------
6.23	Heptachlor	3822	1.5782e-03	1	10	0.03005	0.998	1.6639	0.52520	0.00	------
6.63	Aldrin	1555	6.4587e-04	1	10	0.03005	0.998	1.6639	0.21493	0.00	------
7.52	Heptachlor epoxide	132	5.9614e-05	1	10	0.03005	0.998	1.6639	0.01984	0.00	------
7.66	gamma-Chlordane	3315	1.3839e-03	1	10	0.03005	0.998	1.6639	0.46053	0.00	------
7.86	alpha-Chlordane	0	0.00000000	1	10	0.03005	0.998	----------	0.00000	--------	------
7.98	4,4'-DDE	1402	6.1714e-04	1	10	0.03005	0.998	3.3278	0.20537	0.00	------
8.06	Endosulfan I	0	0.00000000	1	10	0.03005	0.998	----------	0.00000	--------	------
8.40	Dieldrin	0	0.00000000	1	10	0.03005	0.998	----------	0.00000	--------	------
8.68	Endrin	6594	3.2459e-03	1	10	0.03005	0.998	3.3278	1.08015	0.00	------
8.81	4,4'-DDD	36343	0.01924282	1	10	0.03005	0.998	3.3278	6.40360	0.00	------
9.00	Endosulfan II	4213	2.1752e-03	1	10	0.03005	0.998	3.3278	0.72386	0.00	------
9.26	4,4'-DDT	5146	2.7781e-03	1	10	0.03005	0.998	3.3278	0.92450	0.00	------
9.74	Endrin aldehyde	958	5.8211e-04	1	10	0.03005	0.998	3.3278	0.19372	0.00	------
9.94	Methoxychlor	0	0.00000000	1	10	0.03005	0.998	----------	0.00000	--------	------
10.36	Endosulfan sulfate	20339	0.01193928	1	10	0.03005	0.998	3.3278	3.97314	0.00	------
10.62	Endrin ketone	19954	8.9792e-03	1	10	0.03005	0.998	3.3278	2.98808	0.00	------
11.79	Decachlorobiphenyl	157606	0.09279749	1	10	0.03005	0.998	3.3278	30.88103	39.93	77.3

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:27:34
Operator	: sagers	Sample Name	: 1515542018
Sample Number	: 030	Study	: F9M37
AutoSampler	: HP7673A	Rack/Vial	: 0/30
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 22:14:03	Dilution Factor	: 1.00
		Cycle	: 14

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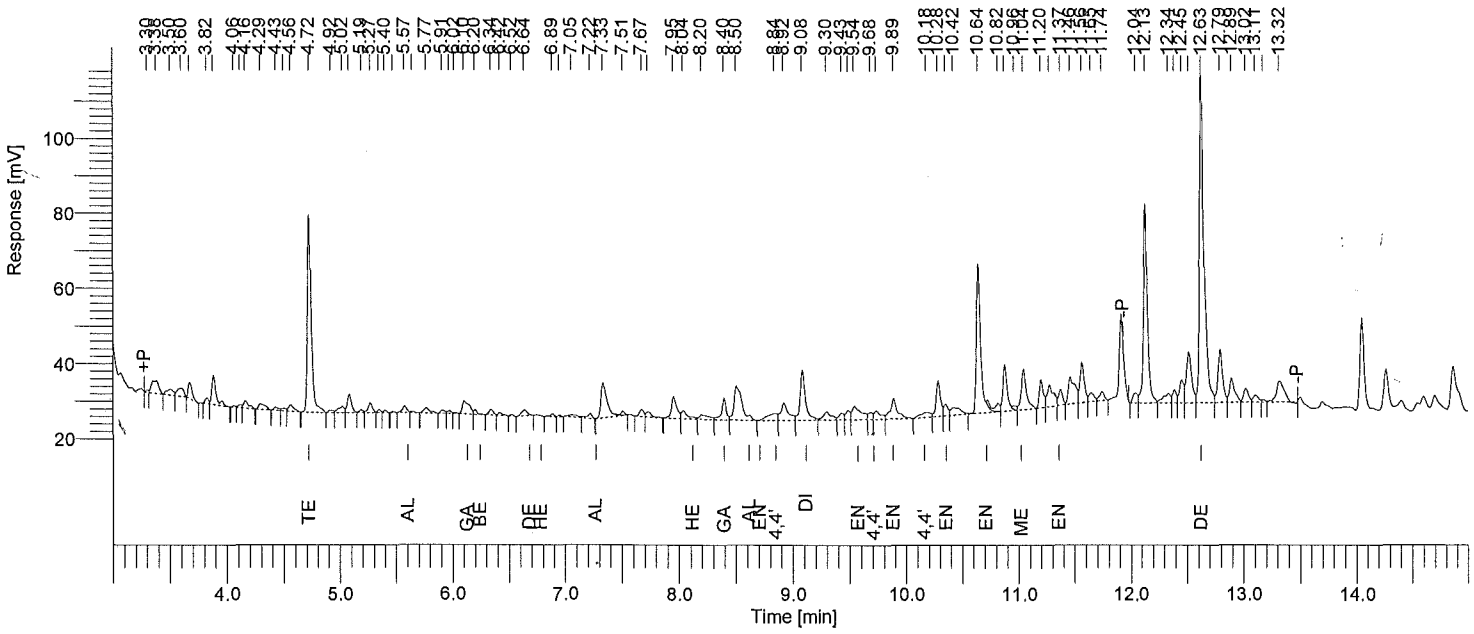

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.72	Tetrachloro-m-xylene	127341	0.03576623	1	10	0.03005	0.998	1.6639	11.90224	19.97	59.6
5.57	alpha-BHC	5121	1.1385e-03	1	10	0.03005	0.998	1.6639	0.37887	0.00	------
6.10	gamma-BHC	14741	3.6086e-03	1	10	0.03005	0.998	1.6639	1.20086	0.00	------
6.20	beta-BHC	2611	1.1969e-03	1	10	0.03005	0.998	1.6639	0.39831	0.00	------
6.64	delta-BHC	5712	1.4850e-03	1	10	0.03005	0.998	1.6639	0.49418	0.00	------
6.78	Heptachlor	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
7.22	Aldrin	3765	1.0485e-03	1	10	0.03005	0.998	1.6639	0.34892	0.00	------
8.12	Heptachlor epoxide	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
8.40	gamma-Chlordane	16155	4.6912e-03	1	10	0.03005	0.998	1.6639	1.56113	0.00	------
8.61	alpha-Chlordane	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
8.70	Endosulfan I	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
8.84	4,4'-DDE	11583	3.6163e-03	1	10	0.03005	0.998	3.3278	1.20341	0.00	------
9.08	Dieldrin	43538	0.01362846	1	10	0.03005	0.998	3.3278	4.53526	0.00	------
9.54	Endrin	20493	7.5009e-03	1	10	0.03005	0.998	3.3278	2.49615	0.00	------
9.68	4,4'-DDD	5232	2.0651e-03	1	10	0.03005	0.998	3.3278	0.68722	0.00	------
9.89	Endosulfan II	24907	9.3521e-03	1	10	0.03005	0.998	3.3278	3.11217	0.00	------
10.18	4,4'-DDT	8992	3.3940e-03	1	10	0.03005	0.998	3.3278	1.12944	0.00	------
10.35	Endrin aldehyde	8585	3.9493e-03	1	10	0.03005	0.998	3.3278	1.31425	0.00	------
10.64	Endosulfan sulfate	106567	0.04567367	1	10	0.03005	0.998	3.3278	15.19922	0.00	------
11.04	Methoxychlor	34967	0.02906834	1	10	0.03005	0.998	16.6389	9.67333	0.00	------
11.37	Endrin ketone	10452	3.6664e-03	1	10	0.03005	0.998	3.3278	1.22010	0.00	------
12.63	Decachlorobiphenyl	249192	0.10919334	1	10	0.03005	0.998	3.3278	36.33722	39.93	91.0

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M38

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542019

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 31150619A031,31150619B031

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/19/2015

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	0.36	JBP
319-85-7	beta-BHC	0.087	JP
319-86-8	delta-BHC	0.18	JBP
58-89-9	gamma-BHC (Lindane)	0.67	JP
76-44-8	Heptachlor	0.19	JP
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	0.59	JBP
72-55-9	4,4'-DDE	0.10	JP
72-20-8	Endrin	3.7	U
33213-65-9	Endosulfan II	0.53	JP
72-54-8	4,4'-DDD	3.7	U
1031-07-8	Endosulfan sulfate	0.087	JP
50-29-3	4,4'-DDT	0.23	JP
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	0.15	JP
7421-93-4	Endrin aldehyde	0.73	JB
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	: 06/20/2015 09:25:51
Operator	: sagers	Sample Name	: 1515542019
Sample Number	: 031	Study	: F9M38
AutoSampler	: HP7673A	Rack/Vial	: 0/31
Instrument Name	: GCE31	Channel	: A
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/19/2015 22:14:03	Cycle	: 15

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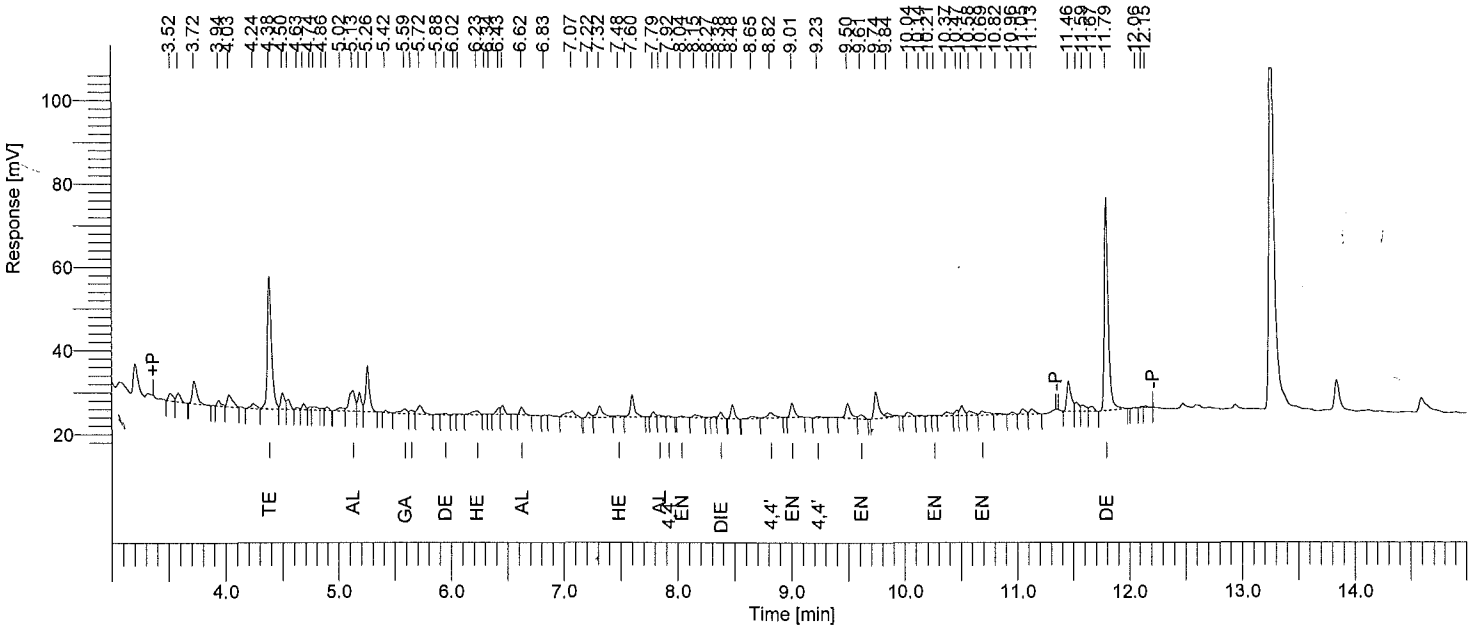

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.38	Tetrachloro-m-xylene	80674	0.03668871	1	10	0.03031	0.990	1.6496	12.10449	19.80	61.1
5.13	alpha-BHC	18354	6.6087e-03	1	10	0.03031	0.990	1.6496	2.18037	0.00	------
5.59	gamma-BHC	4586	1.7677e-03	1	10	0.03031	0.990	1.6496	0.58320	0.00	------
5.65	beta-BHC	2509	1.7790e-03	1	10	0.03031	0.990	1.6496	0.58693	0.00	------
5.95	delta-BHC	1173	4.6791e-04	1	10	0.03031	0.990	1.6496	0.15438	0.00	------
6.23	Heptachlor	4462	1.8425e-03	1	10	0.03031	0.990	1.6496	0.60789	0.00	------
6.62	Aldrin	4747	1.9714e-03	1	10	0.03031	0.990	1.6496	0.65042	0.00	------
7.48	Heptachlor epoxide	1768	8.0067e-04	1	10	0.03031	0.990	1.6496	0.26416	0.00	------
7.67	gamma-Chlordane	0	0.00000000	1	10	0.03031	0.990	----------	0.00000	--------	------
7.84	alpha-Chlordane	1312	5.3112e-04	1	10	0.03031	0.990	1.6496	0.17523	0.00	------
7.92	4,4'-DDE	605	2.6661e-04	1	10	0.03031	0.990	3.2992	0.08796	0.00	------
8.04	Endosulfan I	773	3.3833e-04	1	10	0.03031	0.990	1.6496	0.11162	0.00	------
8.38	Dieldrin	3518	1.5759e-03	1	10	0.03031	0.990	3.2992	0.51994	0.00	------
8.74	Endrin	0	0.00000000	1	10	0.03031	0.990	----------	0.00000	--------	------
8.82	4,4'-DDD	6325	3.3491e-03	1	10	0.03031	0.990	3.2992	1.10494	0.00	------
9.01	Endosulfan II	9053	4.6741e-03	1	10	0.03031	0.990	3.2992	1.54209	0.00	------
9.23	4,4'-DDT	1119	6.0434e-04	1	10	0.03031	0.990	3.2992	0.19939	0.00	------
9.61	Endrin aldehyde	3183	1.9339e-03	1	10	0.03031	0.990	3.2992	0.63805	0.00	------
9.94	Methoxychlor	0	0.00000000	1	10	0.03031	0.990	----------	0.00000	--------	------
10.26	Endosulfan sulfate	394	2.3153e-04	1	10	0.03031	0.990	3.2992	0.07639	0.00	------
10.69	Endrin ketone	4737	2.1317e-03	1	10	0.03031	0.990	3.2992	0.70329	0.00	------
11.79	Decachlorobiphenyl	120893	0.07118112	1	10	0.03031	0.990	3.2992	23.48437	39.59	59.3

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:27:36
Operator	: sagers	Sample Name	: 1515542019
Sample Number	: 031	Study	: F9M38
AutoSampler	: HP7673A	Rack/Vial	: 0/31
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 22:34:17	Dilution Factor	: 1.00
		Cycle	: 15

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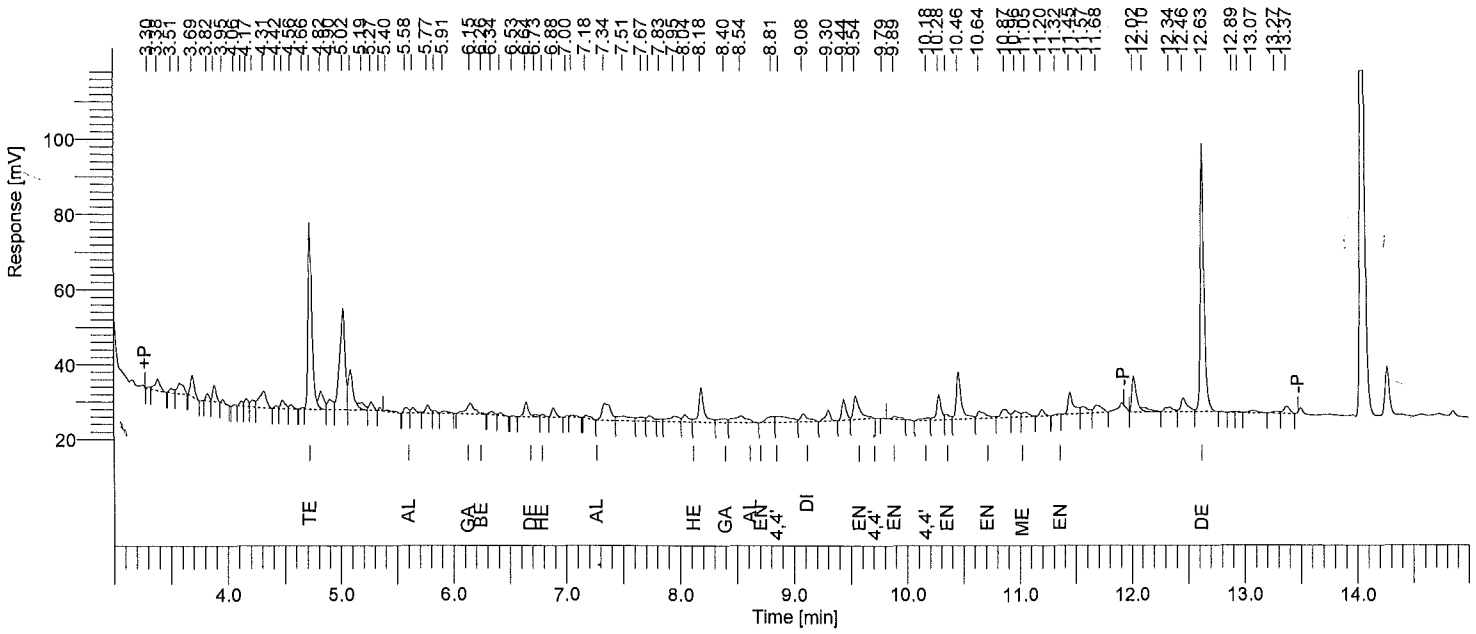

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.72	Tetrachloro-m-xylene	116782	0.03280036	1	10	0.03031	0.990	1.6496	10.82163	19.80	54.7
5.58	alpha-BHC	4327	9.6213e-04	1	10	0.03031	0.990	1.6496	0.31743	0.00	------
6.15	gamma-BHC	14097	3.4509e-03	1	10	0.03031	0.990	1.6496	1.13855	0.00	------
6.26	beta-BHC	504	2.3105e-04	1	10	0.03031	0.990	1.6496	0.07623	0.00	------
6.64	delta-BHC	10552	2.7435e-03	1	10	0.03031	0.990	1.6496	0.90513	0.00	------
6.79	Heptachlor	1918	5.1227e-04	1	10	0.03031	0.990	1.6496	0.16901	0.00	------
7.27	Aldrin	0	0.00000000	1	10	0.03031	0.990	---------	0.00000	--------	------
8.12	Heptachlor epoxide	0	0.00000000	1	10	0.03031	0.990	---------	0.00000	--------	------
8.40	gamma-Chlordane	6139	1.7828e-03	1	10	0.03031	0.990	1.6496	0.58819	0.00	------
8.61	alpha-Chlordane	0	0.00000000	1	10	0.03031	0.990	---------	0.00000	--------	------
8.70	Endosulfan I	0	0.00000000	1	10	0.03031	0.990	---------	0.00000	--------	------
8.87	4,4'-DDE	14779	4.6138e-03	1	10	0.03031	0.990	3.2992	1.52220	0.00	------
9.08	Dieldrin	9937	3.1104e-03	1	10	0.03031	0.990	3.2992	1.02619	0.00	------
9.54	Endrin	24585	8.9988e-03	1	10	0.03031	0.990	3.2992	2.96891	0.00	------
9.71	4,4'-DDD	0	0.00000000	1	10	0.03031	0.990	---------	0.00000	--------	------
9.89	Endosulfan II	3779	1.4190e-03	1	10	0.03031	0.990	3.2992	0.46816	0.00	------
10.18	4,4'-DDT	4127	1.5577e-03	1	10	0.03031	0.990	3.2992	0.51392	0.00	------
10.35	Endrin aldehyde	4920	2.2632e-03	1	10	0.03031	0.990	3.2992	0.74668	0.00	------
10.64	Endosulfan sulfate	10752	4.6083e-03	1	10	0.03031	0.990	3.2992	1.52040	0.00	------
11.05	Methoxychlor	5681	4.7230e-03	1	10	0.03031	0.990	16.4962	1.55823	0.00	------
11.32	Endrin ketone	1109	3.8899e-04	1	10	0.03031	0.990	3.2992	0.12834	0.00	------
12.63	Decachlorobiphenyl	167687	0.07347860	1	10	0.03031	0.990	3.2992	24.24236	39.59	61.2

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M39

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542020

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 31150619A032,31150619B032

% Moisture: 13. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/19/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.33	JBP
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	0.12	JBP
58-89-9	gamma-BHC (Lindane)	0.76	JP
76-44-8	Heptachlor	0.28	JP
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	0.19	JBP
72-55-9	4,4'-DDE	3.7	U
72-20-8	Endrin	3.7	U
33213-65-9	Endosulfan II	1.3	J
72-54-8	4,4'-DDD	1.2	JP
1031-07-8	Endosulfan sulfate	0.36	JP
50-29-3	4,4'-DDT	0.44	J
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	0.20	JP
7421-93-4	Endrin aldehyde	0.66	JBP
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	0.31	JP
8001-35-2	Toxaphene	190	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:25:54
Operator	: sagers	Sample Name	: 1515542020
Sample Number	: 032	Study	: F9M39
AutoSampler	: HP7673A	Rack/Vial	: 0/32
Instrument Name	: GCE31	Channel	: A
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 22:34:17	Dilution Factor	: 1.00
		Cycle	: 16

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Proc Method : \\Alsltws012\TCCS\sagers\GCE31\31150619\31_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619A_032.rst
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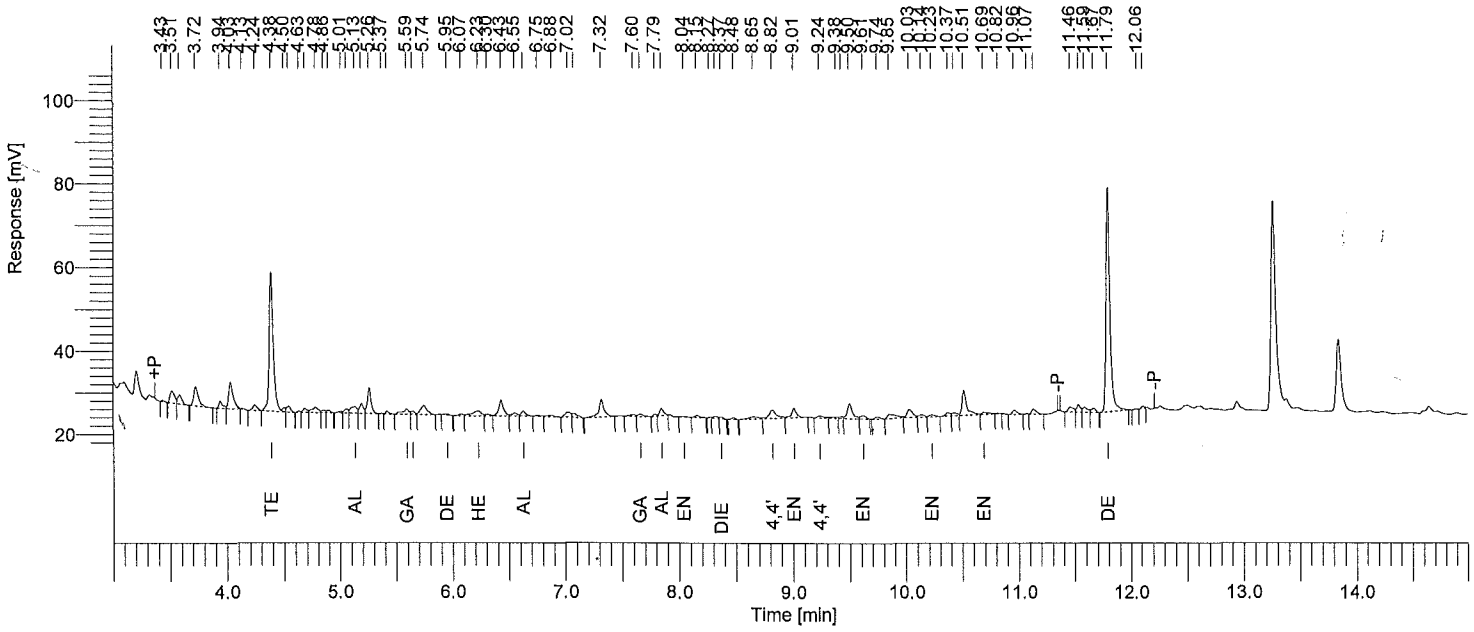

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.38	Tetrachloro-m-xylene	85513	0.03888938	1	10	0.03034	0.989	1.6480	12.81786	19.78	64.8
5.13	alpha-BHC	6436	2.3175e-03	1	10	0.03034	0.989	1.6480	0.76385	0.00	------
5.59	gamma-BHC	5219	2.0114e-03	1	10	0.03034	0.989	1.6480	0.66294	0.00	------
5.64	beta-BHC	2014	1.4277e-03	1	10	0.03034	0.989	1.6480	0.47058	0.00	------
5.95	delta-BHC	816	3.2534e-04	1	10	0.03034	0.989	1.6480	0.10723	0.00	------
6.23	Heptachlor	6913	2.8546e-03	1	10	0.03034	0.989	1.6480	0.94086	0.00	------
6.63	Aldrin	3521	1.4622e-03	1	10	0.03034	0.989	1.6480	0.48195	0.00	------
7.49	Heptachlor epoxide	0	0.00000000	1	10	0.03034	0.989	----------	0.00000	--------	------
7.66	gamma-Chlordane	1975	8.2475e-04	1	10	0.03034	0.989	1.6480	0.27184	0.00	------
7.85	alpha-Chlordane	4281	1.7332e-03	1	10	0.03034	0.989	1.6480	0.57126	0.00	------
7.97	4,4'-DDE	0	0.00000000	1	10	0.03034	0.989	----------	0.00000	--------	------
8.04	Endosulfan I	502	2.1990e-04	1	10	0.03034	0.989	1.6480	0.07248	0.00	------
8.37	Dieldrin	1115	4.9961e-04	1	10	0.03034	0.989	3.2960	0.16467	0.00	------
8.74	Endrin	0	0.00000000	1	10	0.03034	0.989	----------	0.00000	--------	------
8.82	4,4'-DDD	9450	5.0037e-03	1	10	0.03034	0.989	3.2960	1.64919	0.00	------
9.01	Endosulfan II	7087	3.6587e-03	1	10	0.03034	0.989	3.2960	1.20591	0.00	------
9.24	4,4'-DDT	2157	1.1647e-03	1	10	0.03034	0.989	3.2960	0.38389	0.00	------
9.61	Endrin aldehyde	2870	1.7439e-03	1	10	0.03034	0.989	3.2960	0.57478	0.00	------
9.94	Methoxychlor	0	0.00000000	1	10	0.03034	0.989	----------	0.00000	--------	------
10.23	Endosulfan sulfate	1615	9.4803e-04	1	10	0.03034	0.989	3.2960	0.31247	0.00	------
10.69	Endrin ketone	2348	1.0565e-03	1	10	0.03034	0.989	3.2960	0.34821	0.00	------
11.79	Decachlorobiphenyl	126511	0.07448931	1	10	0.03034	0.989	3.2960	24.55152	39.55	62.1

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:27:38
Operator	: sagers	Sample Name	: 1515542020
Sample Number	: 032	Study	: F9M39
AutoSampler	: HP7673A	Rack/Vial	: 0/32
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 22:54:45	Dilution Factor	: 1.00
		Cycle	: 16

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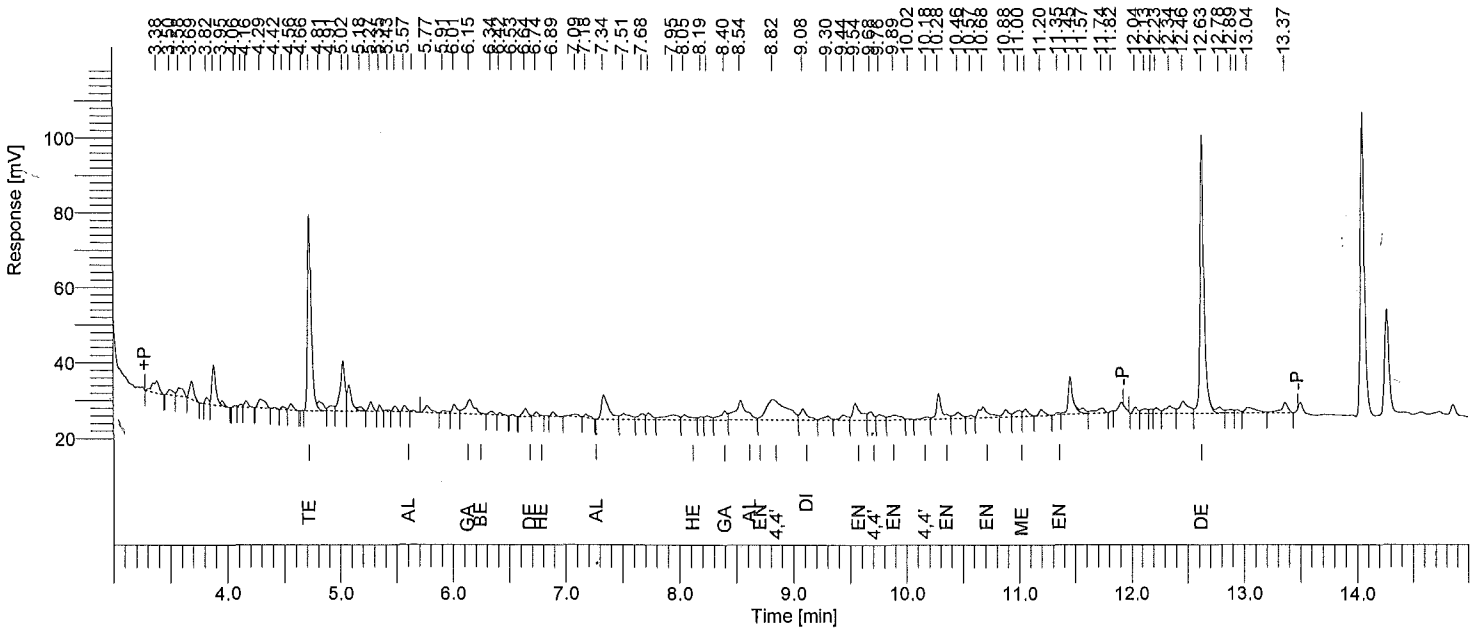

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.72	Tetrachloro-m-xylene	121800	0.03420969	1	10	0.03034	0.989	1.6480	11.27544	19.78	57.0
5.57	alpha-BHC	3916	8.7071e-04	1	10	0.03034	0.989	1.6480	0.28698	0.00	------
6.15	gamma-BHC	19563	4.7891e-03	1	10	0.03034	0.989	1.6480	1.57847	0.00	------
6.24	beta-BHC	0	0.00000000	1	10	0.03034	0.989	---------	0.00000	--------	------
6.64	delta-BHC	6197	1.6112e-03	1	10	0.03034	0.989	1.6480	0.53104	0.00	------
6.74	Heptachlor	2765	7.3865e-04	1	10	0.03034	0.989	1.6480	0.24346	0.00	------
7.27	Aldrin	0	0.00000000	1	10	0.03034	0.989	---------	0.00000	--------	------
8.12	Heptachlor epoxide	0	0.00000000	1	10	0.03034	0.989	---------	0.00000	--------	------
8.40	gamma-Chlordane	11090	3.2205e-03	1	10	0.03034	0.989	1.6480	1.06147	0.00	------
8.61	alpha-Chlordane	0	0.00000000	1	10	0.03034	0.989	---------	0.00000	--------	------
8.70	Endosulfan I	0	0.00000000	1	10	0.03034	0.989	---------	0.00000	--------	------
8.82	4,4'-DDE	66285	0.02069359	1	10	0.03034	0.989	3.2960	6.82056	0.00	------
9.08	Dieldrin	13134	4.1113e-03	1	10	0.03034	0.989	3.2960	1.35509	0.00	------
9.54	Endrin	21339	7.8108e-03	1	10	0.03034	0.989	3.2960	2.57443	0.00	------
9.68	4,4'-DDD	7857	3.1009e-03	1	10	0.03034	0.989	3.2960	1.02206	0.00	------
9.89	Endosulfan II	9485	3.5613e-03	1	10	0.03034	0.989	3.2960	1.17380	0.00	------
10.18	4,4'-DDT	3300	1.2455e-03	1	10	0.03034	0.989	3.2960	0.41051	0.00	------
10.28	Endrin aldehyde	22309	0.01026266	1	10	0.03034	0.989	3.2960	3.38255	0.00	------
10.68	Endosulfan sulfate	16457	7.0534e-03	1	10	0.03034	0.989	3.2960	2.32478	0.00	------
11.00	Methoxychlor	7276	6.0482e-03	1	10	0.03034	0.989	16.4799	1.99348	0.00	------
11.35	Endrin ketone	1536	5.3891e-04	1	10	0.03034	0.989	3.2960	0.17762	0.00	------
12.63	Decachlorobiphenyl	185268	0.08118242	1	10	0.03034	0.989	3.2960	26.75755	39.55	67.7

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M40

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542021

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 31150619A033,31150619B033

% Moisture: 13. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/19/2015

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	0.048	JBP
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	0.30	JBP
58-89-9	gamma-BHC (Lindane)	0.18	JP
76-44-8	Heptachlor	0.27	JP
309-00-2	Aldrin	0.48	JP
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	2.2	JP
72-20-8	Endrin	0.95	JP
33213-65-9	Endosulfan II	0.95	JP
72-54-8	4,4'-DDD	0.61	JP
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	0.60	JP
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	1.2	JP
7421-93-4	Endrin aldehyde	0.94	JB
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	0.33	JP
8001-35-2	Toxaphene	190	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:25:56
Operator	: sagers	Sample Name	: 1515542021
Sample Number	: 033	Study	: F9M40
AutoSampler	: HP7673A	Rack/Vial	: 0/33
Instrument Name	: GCE31	Channel	: A
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 22:54:45	Dilution Factor	: 1.00
		Cycle	: 17

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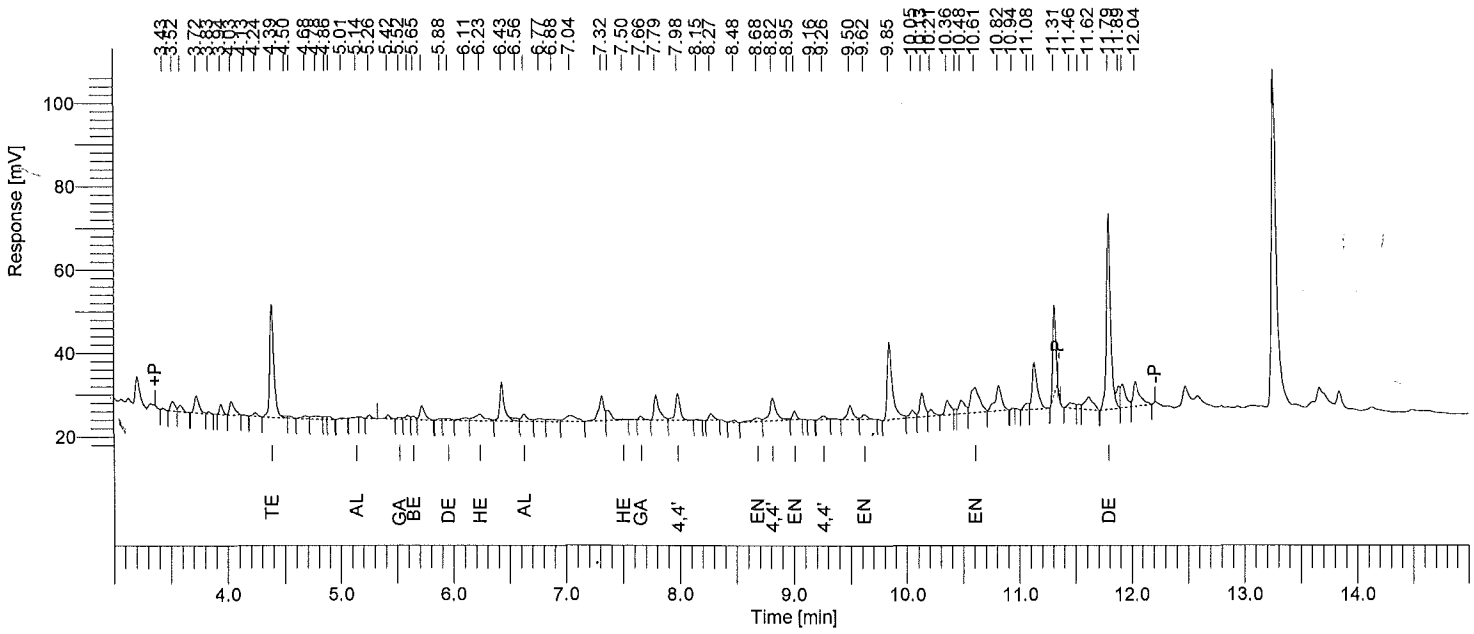
Report Format File: \\Alsltws012\TCCS\sagers\GCE31\31150618\31_RPT_2UL\31_som_soil_sample_a.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619_SOM012_PEST_F9M21_A.seq



Instrument ID: GC31A 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 %
4.39	Tetrachloro-m-xylene	68272	0.03104822	1	10	0.03020	0.993	1.6556	10.28087	19.87	51.7
5.14	alpha-BHC	352	1.2668e-04	1	10	0.03020	0.993	1.6556	0.04195	0.00	------
5.52	gamma-BHC	1207	4.6538e-04	1	10	0.03020	0.993	1.6556	0.15410	0.00	------
5.65	beta-BHC	2002	1.4195e-03	1	10	0.03020	0.993	1.6556	0.47004	0.00	------
5.95	delta-BHC	1965	7.8397e-04	1	10	0.03020	0.993	1.6556	0.25959	0.00	------
6.23	Heptachlor	9589	3.9597e-03	1	10	0.03020	0.993	1.6556	1.31116	0.00	------
6.63	Aldrin	6170	2.5625e-03	1	10	0.03020	0.993	1.6556	0.84851	0.00	------
7.50	Heptachlor epoxide	735	3.3271e-04	1	10	0.03020	0.993	1.6556	0.11017	0.00	------
7.66	gamma-Chlordane	2062	8.6083e-04	1	10	0.03020	0.993	1.6556	0.28504	0.00	------
7.86	alpha-Chlordane	0	0.00000000	1	10	0.03020	0.993	----------	0.00000	--------	------
7.98	4,4'-DDE	18728	8.2467e-03	1	10	0.03020	0.993	3.3113	2.73070	0.00	------
8.06	Endosulfan I	0	0.00000000	1	10	0.03020	0.993	----------	0.00000	--------	------
8.40	Dieldrin	0	0.00000000	1	10	0.03020	0.993	----------	0.00000	--------	------
8.68	Endrin	5078	2.4998e-03	1	10	0.03020	0.993	3.3113	0.82776	0.00	------
8.82	4,4'-DDD	21400	0.01133070	1	10	0.03020	0.993	3.3113	3.75189	0.00	------
9.01	Endosulfan II	4836	2.4966e-03	1	10	0.03020	0.993	3.3113	0.82676	0.00	------
9.26	4,4'-DDT	2917	1.5749e-03	1	10	0.03020	0.993	3.3113	0.52150	0.00	------
9.62	Endrin aldehyde	4071	2.4738e-03	1	10	0.03020	0.993	3.3113	0.81912	0.00	------
9.94	Methoxychlor	0	0.00000000	1	10	0.03020	0.993	----------	0.00000	--------	------
10.29	Endosulfan sulfate	0	0.00000000	1	10	0.03020	0.993	----------	0.00000	--------	------
10.61	Endrin ketone	32540	0.01464245	1	10	0.03020	0.993	3.3113	4.84849	0.00	------
11.79	Decachlorobiphenyl	119555	0.07039323	1	10	0.03020	0.993	3.3113	23.30902	39.74	58.7

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:27:40
Operator	: sagers	Sample Name	: 1515542021
Sample Number	: 033	Study	: F9M40
AutoSampler	: HP7673A	Rack/Vial	: 0/33
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 23:15:11	Dilution Factor	: 1.00
		Cycle	: 17

Raw Data File : \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619B_033.raw <Modified>
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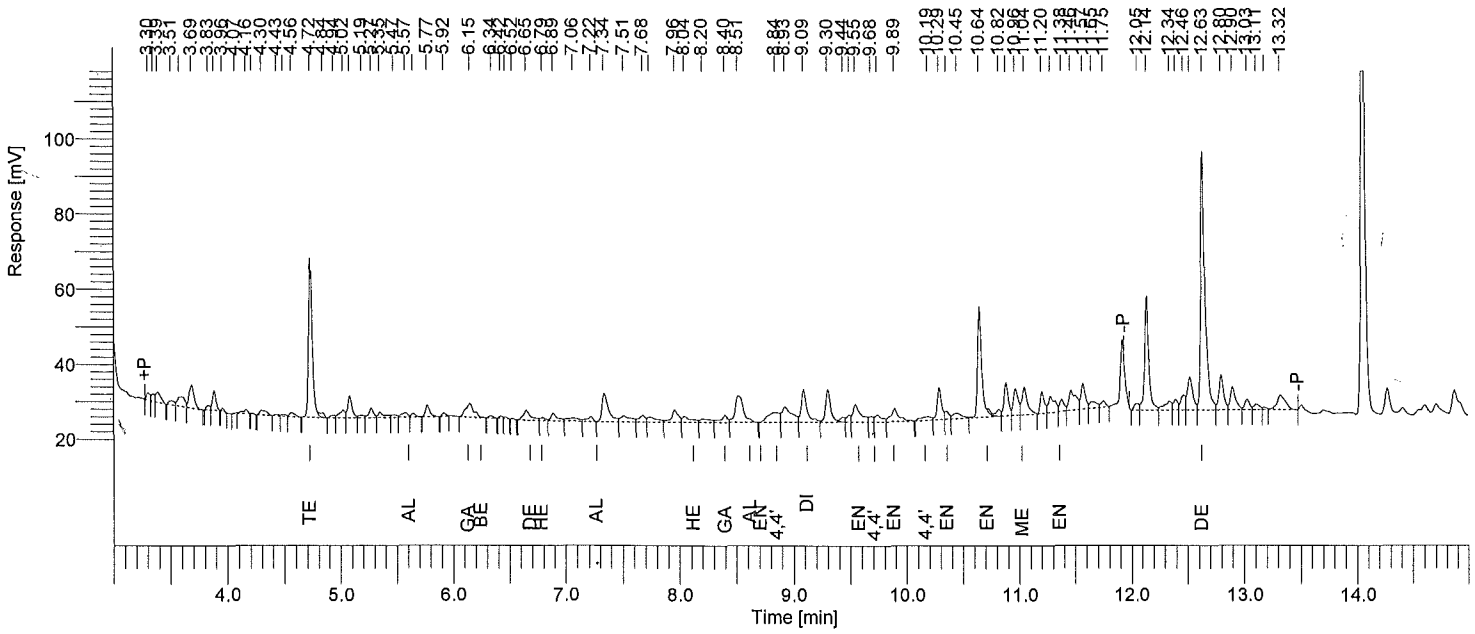
Report Format File: \\Alsltws012\TCCS\sagers\GCE31\31150618\31_RPT_2UL\31_som_soil_sample_b.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619_SOM012_PEST_F9M21_A.seq



Instrument ID: GC31B 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 %
4.72	Tetrachloro-m-xylene	100672	0.02827575	1	10	0.03020	0.993	1.6556	9.36283	19.87	47.1
5.57	alpha-BHC	4638	1.0313e-03	1	10	0.03020	0.993	1.6556	0.34148	0.00	------
6.15	gamma-BHC	18604	4.5541e-03	1	10	0.03020	0.993	1.6556	1.50799	0.00	------
6.24	beta-BHC	0	0.00000000	1	10	0.03020	0.993	---------	0.00000	--------	------
6.65	delta-BHC	11739	3.0520e-03	1	10	0.03020	0.993	1.6556	1.01059	0.00	------
6.79	Heptachlor	2620	6.9981e-04	1	10	0.03020	0.993	1.6556	0.23173	0.00	------
7.22	Aldrin	4499	1.2530e-03	1	10	0.03020	0.993	1.6556	0.41490	0.00	------
8.12	Heptachlor epoxide	0	0.00000000	1	10	0.03020	0.993	---------	0.00000	--------	------
8.40	gamma-Chlordane	8161	2.3698e-03	1	10	0.03020	0.993	1.6556	0.78470	0.00	------
8.61	alpha-Chlordane	0	0.00000000	1	10	0.03020	0.993	---------	0.00000	--------	------
8.70	Endosulfan I	0	0.00000000	1	10	0.03020	0.993	---------	0.00000	--------	------
8.84	4,4'-DDE	18963	5.9202e-03	1	10	0.03020	0.993	3.3113	1.96034	0.00	------
9.09	Dieldrin	31027	9.7121e-03	1	10	0.03020	0.993	3.3113	3.21594	0.00	------
9.55	Endrin	22265	8.1497e-03	1	10	0.03020	0.993	3.3113	2.69858	0.00	------
9.68	4,4'-DDD	4089	1.6140e-03	1	10	0.03020	0.993	3.3113	0.53444	0.00	------
9.89	Endosulfan II	17649	6.6268e-03	1	10	0.03020	0.993	3.3113	2.19431	0.00	------
10.19	4,4'-DDT	6846	2.5839e-03	1	10	0.03020	0.993	3.3113	0.85561	0.00	------
10.35	Endrin aldehyde	5903	2.7156e-03	1	10	0.03020	0.993	3.3113	0.89920	0.00	------
10.64	Endosulfan sulfate	78383	0.03359446	1	10	0.03020	0.993	3.3113	11.12399	0.00	------
11.04	Methoxychlor	25345	0.02106942	1	10	0.03020	0.993	16.5563	6.97663	0.00	------
11.38	Endrin ketone	8946	3.1380e-03	1	10	0.03020	0.993	3.3113	1.03908	0.00	------
12.63	Decachlorobiphenyl	188709	0.08269050	1	10	0.03020	0.993	3.3113	27.38096	39.74	68.9

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M41

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542022

Sample wt/vol: 30.5 (g/mL) g Lab File ID: 31150619A034,31150619B034

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/19/2015

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	0.092	JBP
319-85-7	beta-BHC	0.28	JP
319-86-8	delta-BHC	0.16	JBP
58-89-9	gamma-BHC (Lindane)	0.086	JP
76-44-8	Heptachlor	0.15	JP
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	0.42	JP
33213-65-9	Endosulfan II	0.21	JP
72-54-8	4,4'-DDD	0.37	JP
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	0.19	JP
72-43-5	Methoxychlor	20.	U
53494-70-5	Endrin ketone	0.095	JP
7421-93-4	Endrin aldehyde	0.72	JB
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	0.14	JP
8001-35-2	Toxaphene	200	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:25:58
Operator	: sagers	Sample Name	: 1515542022
Sample Number	: 034	Study	: F9M41
AutoSampler	: HP7673A	Rack/Vial	: 0/34
Instrument Name	: GCE31	Channel	: A
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 23:15:11	Dilution Factor	: 1.00
		Cycle	: 18

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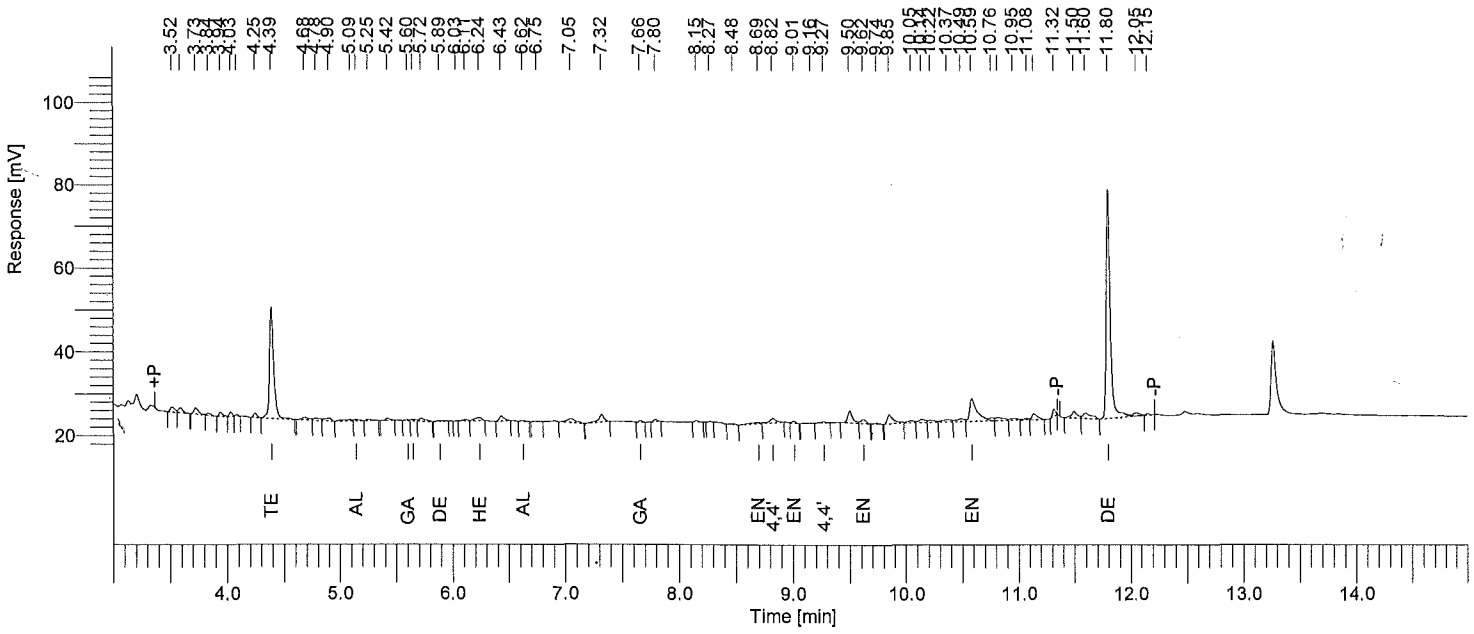
Proc Method : \\Alsltws012\TCCS\sagers\GCE31\31150619\31_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619A_034.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE31\31150619\31_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619A_034.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE31\31150618\31_RPT_2UL\31_som_soil_sample_a.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619_SOM012_PEST_F9M21_A.seq



Instrument ID: GC31A 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 %
4.39	Tetrachloro-m-xylene	68937	0.03135065	1	10	0.03046	0.985	1.6415	10.29240	19.70	52.3
5.14	alpha-BHC	1082	3.8961e-04	1	10	0.03046	0.985	1.6415	0.12791	0.00	------
5.60	gamma-BHC	582	2.2419e-04	1	10	0.03046	0.985	1.6415	0.07360	0.00	------
5.65	beta-BHC	1043	7.3957e-04	1	10	0.03046	0.985	1.6415	0.24280	0.00	------
5.89	delta-BHC	1060	4.2288e-04	1	10	0.03046	0.985	1.6415	0.13883	0.00	------
6.24	Heptachlor	3178	1.3125e-03	1	10	0.03046	0.985	1.6415	0.43090	0.00	------
6.62	Aldrin	681	2.8277e-04	1	10	0.03046	0.985	1.6415	0.09283	0.00	------
7.49	Heptachlor epoxide	0	0.00000000	1	10	0.03046	0.985	----------	0.00000	--------	------
7.66	gamma-Chlordane	900	3.7582e-04	1	10	0.03046	0.985	1.6415	0.12338	0.00	------
7.86	alpha-Chlordane	0	0.00000000	1	10	0.03046	0.985	----------	0.00000	--------	------
7.97	4,4'-DDE	0	0.00000000	1	10	0.03046	0.985	----------	0.00000	--------	------
8.06	Endosulfan I	0	0.00000000	1	10	0.03046	0.985	----------	0.00000	--------	------
8.40	Dieldrin	0	0.00000000	1	10	0.03046	0.985	----------	0.00000	--------	------
8.69	Endrin	2221	1.0934e-03	1	10	0.03046	0.985	3.2830	0.35896	0.00	------
8.82	4,4'-DDD	4294	2.2735e-03	1	10	0.03046	0.985	3.2830	0.74640	0.00	------
9.01	Endosulfan II	1065	5.4980e-04	1	10	0.03046	0.985	3.2830	0.18050	0.00	------
9.27	4,4'-DDT	913	4.9313e-04	1	10	0.03046	0.985	3.2830	0.16189	0.00	------
9.62	Endrin aldehyde	3069	1.8650e-03	1	10	0.03046	0.985	3.2830	0.61229	0.00	------
9.94	Methoxychlor	0	0.00000000	1	10	0.03046	0.985	----------	0.00000	--------	------
10.29	Endosulfan sulfate	0	0.00000000	1	10	0.03046	0.985	----------	0.00000	--------	------
10.59	Endrin ketone	24881	0.01119612	1	10	0.03046	0.985	3.2830	3.67568	0.00	------
11.80	Decachlorobiphenyl	133256	0.07846028	1	10	0.03046	0.985	3.2830	25.75846	39.40	65.4

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:27:42
Operator	: sagers	Sample Name	: 1515542022
Sample Number	: 034	Study	: F9M41
AutoSampler	: HP7673A	Rack/Vial	: 0/34
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 23:35:23	Dilution Factor	: 1.00
		Cycle	: 18

Raw Data File : \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619B_034.raw <Modified>
Result File : \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619B_034.rst
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Proc Method : \\Alsltws012\TCCS\sagers\GCE31\31150619\31_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619B_034.rst
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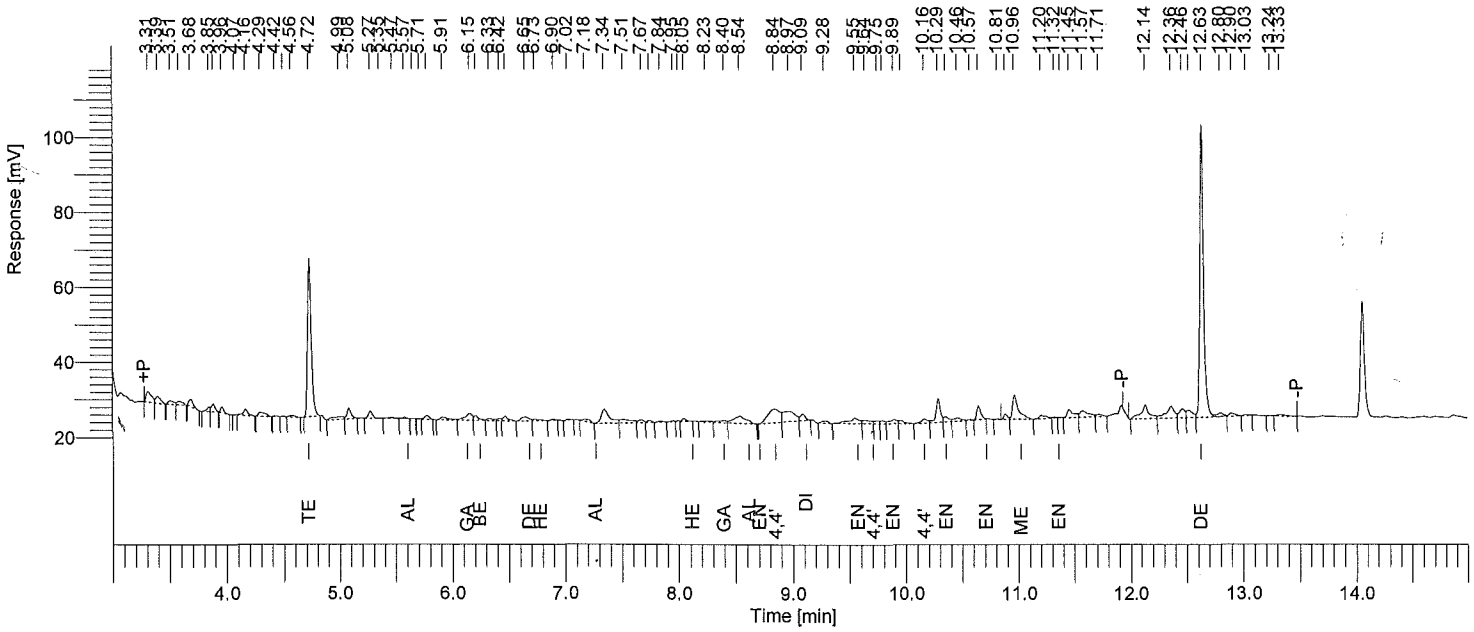

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.72	Tetrachloro-m-xylene	96510	0.02710677	1	10	0.03046	0.985	1.6415	8.89914	19.70	45.2
5.57	alpha-BHC	1077	2.3949e-04	1	10	0.03046	0.985	1.6415	0.07862	0.00	------
6.15	gamma-BHC	7808	1.9114e-03	1	10	0.03046	0.985	1.6415	0.62750	0.00	------
6.21	beta-BHC	3669	1.6818e-03	1	10	0.03046	0.985	1.6415	0.55214	0.00	------
6.65	delta-BHC	4885	1.2701e-03	1	10	0.03046	0.985	1.6415	0.41698	0.00	------
6.73	Heptachlor	1449	3.8713e-04	1	10	0.03046	0.985	1.6415	0.12709	0.00	------
7.27	Aldrin	0	0.00000000	1	10	0.03046	0.985	---------	0.00000	--------	------
8.12	Heptachlor epoxide	0	0.00000000	1	10	0.03046	0.985	---------	0.00000	--------	------
8.40	gamma-Chlordane	2945	8.5528e-04	1	10	0.03046	0.985	1.6415	0.28079	0.00	------
8.61	alpha-Chlordane	0	0.00000000	1	10	0.03046	0.985	---------	0.00000	--------	------
8.70	Endosulfan I	0	0.00000000	1	10	0.03046	0.985	---------	0.00000	--------	------
8.84	4,4'-DDE	26626	8.3125e-03	1	10	0.03046	0.985	3.2830	2.72900	0.00	------
9.09	Dieldrin	5361	1.6781e-03	1	10	0.03046	0.985	3.2830	0.55092	0.00	------
9.55	Endrin	9786	3.5819e-03	1	10	0.03046	0.985	3.2830	1.17594	0.00	------
9.75	4,4'-DDD	2473	9.7606e-04	1	10	0.03046	0.985	3.2830	0.32044	0.00	------
9.89	Endosulfan II	5262	1.9758e-03	1	10	0.03046	0.985	3.2830	0.64865	0.00	------
10.16	4,4'-DDT	4126	1.5575e-03	1	10	0.03046	0.985	3.2830	0.51132	0.00	------
10.35	Endrin aldehyde	4470	2.0562e-03	1	10	0.03046	0.985	3.2830	0.67504	0.00	------
10.65	Endosulfan sulfate	8826	3.7827e-03	1	10	0.03046	0.985	3.2830	1.24186	0.00	------
10.96	Methoxychlor	23781	0.01976931	1	10	0.03046	0.985	16.4150	6.49025	0.00	------
11.38	Endrin ketone	703	2.4675e-04	1	10	0.03046	0.985	3.2830	0.08101	0.00	------
12.63	Decachlorobiphenyl	182470	0.07995646	1	10	0.03046	0.985	3.2830	26.24966	39.40	66.6

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.: F9M21

Instrument ID: GCE31

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	5.12	5.12	5.12	5.12	5.12	5.12	5.07	5.17
beta-BHC	5.67	5.67	5.67	5.68	5.68	5.67	5.62	5.72
delta-BHC	5.92	5.92	5.92	5.92	5.92	5.92	5.87	5.97
gamma-BHC (Lindane)	5.56	5.56	5.56	5.56	5.56	5.56	5.51	5.61
Heptachlor	6.21	6.21	6.21	6.21	6.21	6.21	6.16	6.26
Aldrin	6.63	6.63	6.63	6.63	6.63	6.63	6.58	6.68
Heptachlor epoxide	7.49	7.49	7.49	7.49	7.49	7.49	7.42	7.56
Endosulfan I	8.06	8.06	8.06	8.06	8.06	8.06	7.99	8.13
Dieldrin	8.40	8.40	8.40	8.40	8.40	8.40	8.33	8.47
4,4'-DDE	7.97	7.97	7.97	7.97	7.97	7.97	7.90	8.04
Endrin	8.74	8.74	8.74	8.74	8.74	8.74	8.67	8.81
Endosulfan II	9.06	9.06	9.06	9.06	9.07	9.06	8.99	9.13
4,4'-DDD	8.83	8.83	8.83	8.83	8.83	8.83	8.76	8.90
Endosulfan sulfate	10.29	10.29	10.29	10.29	10.29	10.29	10.22	10.36
4,4'-DDT	9.24	9.24	9.23	9.24	9.24	9.24	9.17	9.31
Methoxychlor	9.94	9.94	9.94	9.94	9.94	9.94	9.87	10.01
Endrin ketone	10.66	10.66	10.65	10.66	10.66	10.66	10.59	10.73
Endrin aldehyde	9.68	9.68	9.68	9.68	9.68	9.68	9.61	9.75
alpha-Chlordane	7.86	7.86	7.86	7.86	7.86	7.86	7.79	7.93
gamma-Chlordane	7.67	7.67	7.67	7.67	7.67	7.67	7.60	7.74
Tetrachloro-m-xylene	4.38	4.38	4.38	4.38	4.38	4.38	4.33	4.43
Decachlorobiphenyl	11.78	11.78	11.78	11.79	11.79	11.78	11.68	11.88

(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.: F9M21

Instrument ID: GCE31

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

	RT OF STANDARDS						RT WINDOW*	
COMPOUND	CS1	CS2	CS3	CS4	CS5	$\overline{RT}$	FROM	TO
alpha-BHC	5.60	5.60	5.60	5.60	5.60	5.60	5.55	5.65
beta-BHC	6.24	6.24	6.24	6.24	6.24	6.24	6.19	6.29
delta-BHC	6.68	6.68	6.68	6.68	6.68	6.68	6.63	6.73
gamma-BHC (Lindane)	6.13	6.13	6.13	6.13	6.13	6.13	6.08	6.18
Heptachlor	6.78	6.78	6.78	6.78	6.78	6.78	6.73	6.83
Aldrin	7.27	7.27	7.27	7.27	7.27	7.27	7.22	7.32
Heptachlor epoxide	8.12	8.12	8.12	8.12	8.12	8.12	8.05	8.19
Endosulfan I	8.71	8.70	8.71	8.71	8.71	8.71	8.64	8.78
Dieldrin	9.11	9.11	9.11	9.11	9.11	9.11	9.04	9.18
4,4'-DDE	8.85	8.85	8.85	8.85	8.85	8.85	8.78	8.92
Endrin	9.57	9.57	9.57	9.57	9.57	9.57	9.50	9.64
Endosulfan II	9.88	9.88	9.88	9.88	9.88	9.88	9.81	9.95
4,4'-DDD	9.71	9.71	9.71	9.71	9.71	9.71	9.64	9.78
Endosulfan sulfate	10.71	10.71	10.71	10.71	10.71	10.71	10.64	10.78
4,4'-DDT	10.16	10.16	10.16	10.16	10.16	10.16	10.09	10.23
Methoxychlor	11.02	11.02	11.02	11.02	11.02	11.02	10.95	11.09
Endrin ketone	11.36	11.36	11.36	11.36	11.36	11.36	11.29	11.43
Endrin aldehyde	10.35	10.35	10.35	10.35	10.35	10.35	10.28	10.42
alpha-Chlordane	8.61	8.61	8.61	8.61	8.61	8.61	8.54	8.68
gamma-Chlordane	8.39	8.39	8.39	8.40	8.39	8.39	8.32	8.46
Tetrachloro-m-xylene	4.72	4.72	4.71	4.71	4.71	4.71	4.66	4.76
Decachlorobiphenyl	12.62	12.62	12.62	12.62	12.62	12.62	12.52	12.72

(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.: F9M21

Instrument ID: GCE31

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	1300000	1280000	1460000	1490000	1410000	6.8
beta-BHC	769000	691000	731000	696000	639000	6.9
delta-BHC	1170000	1170000	1330000	1340000	1260000	6.5
gamma-BHC (Lindane)	1270000	1220000	1370000	1360000	1270000	5.0
Heptachlor	1220000	1140000	1260000	1260000	1180000	4.2
Aldrin	1150000	1120000	1260000	1280000	1200000	5.9
Heptachlor epoxide	1090000	1040000	1150000	1160000	1080000	4.5
Endosulfan I	1110000	1060000	1180000	1210000	1150000	5.2
Dieldrin	1120000	1070000	1160000	1150000	1070000	3.9
4,4'-DDE	1150000	1100000	1190000	1160000	1080000	4.1
Endrin	1050000	985000	1050000	1040000	952000	4.4
Endosulfan II	1000000	926000	1000000	990000	921000	4.3
4,4'-DDD	955000	911000	989000	960000	906000	3.7
Endosulfan sulfate	880000	824000	874000	867000	815000	3.5
4,4'-DDT	958000	887000	953000	939000	893000	3.6
Methoxychlor	514000	437000	437000	417000	411000	9.3
Endrin ketone	1220000	1100000	1130000	1100000	1020000	6.5
Endrin aldehyde	882000	817000	847000	816000	752000	5.8
alpha-Chlordane	1270000	1190000	1290000	1260000	1170000	4.4
gamma-Chlordane	1200000	1140000	1250000	1240000	1160000	4.1
Tetrachloro-m-xylene	1230000	1070000	1120000	1100000	981000	8.1
Decachlorobiphenyl	1000000	847000	848000	804000	744000	11.3

(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.: F9M21

Instrument ID: GCE31

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	2260000	2160000	2320000	2310000	2190000	3.2
beta-BHC	1240000	1090000	1120000	1050000	954000	9.5
delta-BHC	1910000	1850000	2000000	1980000	1870000	3.4
gamma-BHC (Lindane)	2120000	1980000	2110000	2070000	1940000	4.0
Heptachlor	1950000	1820000	1940000	1880000	1760000	4.3
Aldrin	1800000	1730000	1860000	1850000	1740000	3.4
Heptachlor epoxide	1650000	1570000	1660000	1620000	1520000	3.8
Endosulfan I	1590000	1470000	1570000	1560000	1470000	3.7
Dieldrin	1670000	1560000	1620000	1610000	1520000	3.7
4,4'-DDE	1700000	1560000	1630000	1600000	1530000	4.2
Endrin	1440000	1340000	1370000	1390000	1290000	3.9
Endosulfan II	1410000	1290000	1350000	1340000	1270000	4.2
4,4'-DDD	1330000	1260000	1290000	1260000	1190000	4.0
Endosulfan sulfate	1240000	1120000	1180000	1180000	1120000	4.3
4,4'-DDT	1410000	1290000	1320000	1330000	1280000	3.8
Methoxychlor	657000	571000	583000	589000	607000	5.6
Endrin ketone	1550000	1390000	1420000	1410000	1350000	5.4
Endrin aldehyde	1220000	1090000	1090000	1060000	977000	8.0
alpha-Chlordane	1820000	1680000	1770000	1720000	1610000	4.7
gamma-Chlordane	1770000	1690000	1780000	1730000	1630000	3.5
Tetrachloro-m-xylene	2040000	1810000	1800000	1720000	1540000	10.1
Decachlorobiphenyl	1360000	1160000	1120000	1080000	984000	12.1

(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.: F9M21

Instrument ID (1): GCE31 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	8.54	8.54	8.54	8.54	8.54	8.54	8.47	8.61
	2	9.05	9.05	9.05	9.05	9.05	9.05	8.98	9.12
	3	9.64	9.64	9.64	9.64	9.64	9.64	9.57	9.71
	4	10.03	10.03	10.03	10.03	10.03	10.03	9.96	10.10
	5	10.16	10.15	10.15	10.15	10.15	10.15	10.08	10.22

Instrument ID (2): GCE31 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	9.86	9.86	9.86	9.86	9.86	9.86	9.79	9.93
	2	10.00	10.00	10.00	10.00	10.00	10.00	9.93	10.07
	3	10.36	10.36	10.36	10.36	10.36	10.36	10.29	10.43
	4	10.47	10.47	10.47	10.47	10.47	10.47	10.40	10.54
	5	11.01	11.01	11.01	11.01	11.01	11.01	10.94	11.08

[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.: F9M21

Instrument ID (1): GCE31 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	20000	22000	21300	20800	19200	5.2
	2	52600	55800	52900	50900	47200	6.1
	3	43900	47000	45100	43600	41000	5.0
	4	39800	43900	42500	41600	39400	4.6
	5	49300	51900	49400	47400	45000	5.2

Instrument ID (2): GCE31 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	44500	45800	44200	42300	38600	6.5
	2	92700	92600	87400	84100	77800	7.2
	3	59900	62200	60000	57700	53700	5.5
	4	56300	59200	57400	55600	51500	5.1
	5	60000	61000	59200	57300	54100	4.7

[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.: F9M21

GC Column (1): RTXCLP ID: 0.32 (mm) Instrument ID (1): GCE31

EPA Sample No. (RESC##): RESCA1 Lab Sample ID (1): RESCA1

Date Analyzed (1): 06/19/2015 Time Analyzed (1): 13:04

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.38	100.0
02	alpha-BHC	5.13	100.0
03	gamma-BHC (Lindane)	5.56	100.0
04	beta-BHC	5.68	100.0
05	delta-BHC	5.93	100.0
06	Heptachlor	6.22	100.0
07	Aldrin	6.64	100.0
08	Heptachlor epoxide	7.50	100.0
09	gamma-Chlordane	7.68	100.0
10	alpha-Chlordane	7.87	100.0
11	4,4'-DDE	7.98	100.0
12	Endosulfan I	8.06	100.0
13	Dieldrin	8.41	100.0
14	Endrin	8.74	100.0
15	4,4'-DDD	8.84	100.0
16	Endosulfan II	9.07	100.0
17	4,4'-DDT	9.24	100.0
18	Endrin aldehyde	9.68	100.0
19	Methoxychlor	9.94	100.0
20	Endosulfan sulfate	10.30	100.0
21	Endrin ketone	10.66	100.0
22	Decachlorobiphenyl	11.79	

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.: F9M21

GC Column (2): RTXCLP2 ID: 0.32 (mm) Instrument ID (2): GCE31

EPA Sample No. (RESC##): RESCA2 Lab Sample ID (2): RESCA2

Date Analyzed (2): 06/19/2015 Time Analyzed (2): 13:24

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.72	100.0
02	alpha-BHC	5.61	100.0
03	gamma-BHC (Lindane)	6.13	100.0
04	beta-BHC	6.24	100.0
05	delta-BHC	6.68	100.0
06	Heptachlor	6.78	100.0
07	Aldrin	7.27	100.0
08	Heptachlor epoxide	8.12	100.0
09	gamma-Chlordane	8.40	100.0
10	alpha-Chlordane	8.62	100.0
11	Endosulfan I	8.71	100.0
12	4,4'-DDE	8.85	100.0
13	Dieldrin	9.12	100.0
14	Endrin	9.57	100.0
15	4,4'-DDD	9.71	100.0
16	Endosulfan II	9.88	100.0
17	4,4'-DDT	10.16	100.0
18	Endrin aldehyde	10.36	100.0
19	Endosulfan sulfate	10.71	100.0
20	Methoxychlor	11.02	100.0
21	Endrin ketone	11.36	100.0
22	Decachlorobiphenyl	12.62	

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.: F9M21

GC Column (1): RTXCLP ID: 0.32 (mm) Instrument ID (1): GCE31

EPA Sample No. (PEM##): PEMA1 Lab Sample ID (1): PEMA1

Date Analyzed (1): 06/19/2015 Time Analyzed (1): 13:24

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.38	100.0
02	alpha-BHC	5.13	100.0
03	gamma-BHC (Lindane)	5.56	100.0
04	beta-BHC	5.68	100.0
05	Endrin	8.74	100.0
06	4,4'-DDT	9.24	100.0
07	Methoxychlor	9.94	100.0
08	Decachlorobiphenyl	11.79	

GC Column (2): RTXCLP2 ID: 0.32 (mm) Instrument ID (2): GCE31

EPA Sample No. (PEM##): PEMA2 Lab Sample ID (2): PEMA2

Date Analyzed (2): 06/19/2015 Time Analyzed (2): 13:45

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.72	100.0
02	alpha-BHC	5.61	100.0
03	gamma-BHC (Lindane)	6.13	100.0
04	beta-BHC	6.25	100.0
05	Endrin	9.57	100.0
06	4,4'-DDT	10.16	100.0
07	Methoxychlor	11.02	100.0
08	Decachlorobiphenyl	12.62	

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.: F9M21

GC Column (1): RTXCLP ID: 0.32 (mm) Instrument ID (1): GCE31

EPA Sample No. (PEM##): PEMB1 Lab Sample ID (1): PEMB1

Date Analyzed (1): 06/19/2015 Time Analyzed (1): 17:29

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.38	100.0
02	alpha-BHC	5.13	100.0
03	gamma-BHC (Lindane)	5.56	100.0
04	beta-BHC	5.68	100.0
05	Endrin	8.74	100.0
06	4,4'-DDT	9.24	100.0
07	Methoxychlor	9.94	100.0
08	Decachlorobiphenyl	11.79	

GC Column (2): RTXCLP2 ID: 0.32 (mm) Instrument ID (2): GCE31

EPA Sample No. (PEM##): PEMB2 Lab Sample ID (2): PEMB2

Date Analyzed (2): 06/19/2015 Time Analyzed (2): 17:49

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.72	100.0
02	alpha-BHC	5.60	100.0
03	gamma-BHC (Lindane)	6.13	100.0
04	beta-BHC	6.24	100.0
05	Endrin	9.57	100.0
06	4,4'-DDT	10.16	100.0
07	Methoxychlor	11.02	100.0
08	Decachlorobiphenyl	12.62	

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.: F9M21

GC Column (1): RTXCLP ID: 0.32 (mm) Instrument ID (1): GCE31

EPA Sample No. (PEM##): PEMD1 Lab Sample ID (1): PEMD1

Date Analyzed (1): 06/20/2015 Time Analyzed (1): 03:58

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.39	100.0
02	alpha-BHC	5.14	100.0
03	gamma-BHC (Lindane)	5.57	100.0
04	beta-BHC	5.69	100.0
05	Endrin	8.76	100.0
06	4,4'-DDT	9.26	100.0
07	Methoxychlor	9.96	100.0
08	Decachlorobiphenyl	11.80	

GC Column (2): RTXCLP2 ID: 0.32 (mm) Instrument ID (2): GCE31

EPA Sample No. (PEM##): PEMD2 Lab Sample ID (2): PEMD2

Date Analyzed (2): 06/20/2015 Time Analyzed (2): 04:19

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.73	100.0
02	alpha-BHC	5.62	100.0
03	gamma-BHC (Lindane)	6.14	100.0
04	beta-BHC	6.26	100.0
05	Endrin	9.59	100.0
06	4,4'-DDT	10.18	100.0
07	Methoxychlor	11.04	100.0
08	Decachlorobiphenyl	12.64	

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.: F9M21

GC Column (1): RTXCLP ID: 0.32 (mm) Instrument ID (1): GCE31

EPA Sample No. (INDC3##): INDC3A1 Lab Sample ID (1): INDC3A1

Date Analyzed (1): 06/19/2015 Time Analyzed (1): 16:08

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.38	100.0
02	alpha-BHC	5.12	100.0
03	gamma-BHC (Lindane)	5.56	100.0
04	beta-BHC	5.67	100.0
05	delta-BHC	5.92	100.0
06	Heptachlor	6.21	100.0
07	Aldrin	6.63	100.0
08	Heptachlor epoxide	7.49	100.0
09	gamma-Chlordane	7.67	100.0
10	alpha-Chlordane	7.86	100.0
11	4,4'-DDE	7.97	100.0
12	Endosulfan I	8.06	100.0
13	Dieldrin	8.40	100.0
14	Endrin	8.74	100.0
15	4,4'-DDD	8.83	100.0
16	Endosulfan II	9.06	100.0
17	4,4'-DDT	9.23	100.0
18	Endrin aldehyde	9.68	100.0
19	Methoxychlor	9.94	100.0
20	Endosulfan sulfate	10.29	100.0
21	Endrin ketone	10.65	100.0
22	Decachlorobiphenyl	11.78	

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.: F9M21

GC Column (1): RTXCLP ID: 0.32 (mm) Instrument ID (1): GCE31

EPA Sample No. (INDC3##): INDC3C1 Lab Sample ID (1): INDC3C1

Date Analyzed (1): 06/20/2015 Time Analyzed (1): 00:16

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.39	100.0
02	alpha-BHC	5.14	100.0
03	gamma-BHC (Lindane)	5.57	100.0
04	beta-BHC	5.69	100.0
05	delta-BHC	5.93	100.0
06	Heptachlor	6.22	100.0
07	Aldrin	6.65	100.0
08	Heptachlor epoxide	7.51	100.0
09	gamma-Chlordane	7.68	100.0
10	alpha-Chlordane	7.88	100.0
11	4,4'-DDE	7.99	100.0
12	Endosulfan I	8.07	100.0
13	Dieldrin	8.42	100.0
14	Endrin	8.75	100.0
15	4,4'-DDD	8.85	100.0
16	Endosulfan II	9.08	100.0
17	4,4'-DDT	9.25	100.0
18	Endrin aldehyde	9.69	100.0
19	Methoxychlor	9.95	100.0
20	Endosulfan sulfate	10.31	100.0
21	Endrin ketone	10.67	100.0
22	Decachlorobiphenyl	11.80	

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.: F9M21

GC Column (2): RTXCLP2 ID: 0.32 (mm) Instrument ID (2): GCE31

EPA Sample No. (INDC3##): INDC3C2 Lab Sample ID (2): INDC3C2

Date Analyzed (2): 06/20/2015 Time Analyzed (2): 00:36

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.72	100.0
02	alpha-BHC	5.61	100.0
03	gamma-BHC (Lindane)	6.14	100.0
04	beta-BHC	6.25	100.0
05	delta-BHC	6.69	100.0
06	Heptachlor	6.79	100.0
07	Aldrin	7.28	100.0
08	Heptachlor epoxide	8.13	100.0
09	gamma-Chlordane	8.41	100.0
10	alpha-Chlordane	8.63	100.0
11	Endosulfan I	8.72	100.0
12	4,4'-DDE	8.86	100.0
13	Dieldrin	9.13	100.0
14	Endrin	9.59	100.0
15	4,4'-DDD	9.72	100.0
16	Endosulfan II	9.90	100.0
17	4,4'-DDT	10.17	100.0
18	Endrin aldehyde	10.37	100.0
19	Endosulfan sulfate	10.72	100.0
20	Methoxychlor	11.03	100.0
21	Endrin ketone	11.37	100.0
22	Decachlorobiphenyl	12.63	

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.: F9M21

GC Column (2): RTXCLP2 ID: 0.32 (mm) Instrument ID (2): GCE31

EPA Sample No. (INDC3##): INDC3A2 Lab Sample ID (2): INDC3A2

Date Analyzed (2): 06/19/2015 Time Analyzed (2): 16:28

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.71	100.0
02	alpha-BHC	5.60	100.0
03	gamma-BHC (Lindane)	6.13	100.0
04	beta-BHC	6.24	100.0
05	delta-BHC	6.68	100.0
06	Heptachlor	6.78	100.0
07	Aldrin	7.27	100.0
08	Heptachlor epoxide	8.12	100.0
09	gamma-Chlordane	8.39	100.0
10	alpha-Chlordane	8.61	100.0
11	Endosulfan I	8.71	100.0
12	4,4'-DDE	8.85	100.0
13	Dieldrin	9.11	100.0
14	Endrin	9.57	100.0
15	4,4'-DDD	9.71	100.0
16	Endosulfan II	9.88	100.0
17	4,4'-DDT	10.16	100.0
18	Endrin aldehyde	10.35	100.0
19	Endosulfan sulfate	10.71	100.0
20	Methoxychlor	11.02	100.0
21	Endrin ketone	11.36	100.0
22	Decachlorobiphenyl	12.62	

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.: F9M21

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##): PEMA1 Date Analyzed: 06/19/2015

Lab Sample ID (PEM): PEMA1 Time Analyzed: 13:24

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	5.13	5.07	5.17	0.019	0.020	-3.7
beta-BHC	5.68	5.62	5.72	0.021	0.020	3.3
gamma-BHC (Lindane)	5.56	5.51	5.61	0.020	0.020	-0.8
Endrin	8.74	8.67	8.81	0.099	0.100	-0.6
4,4'-DDT	9.24	9.17	9.31	0.193	0.200	-3.7
Methoxychlor	9.94	9.87	10.01	0.478	0.500	-4.5
TCX	4.38	4.33	4.43	0.039	0.040	-2.1
DCB	11.79	11.68	11.88	0.041	0.040	1.5

4,4'-DDT %Breakdown (1): 0.1 Endrin %Breakdown (1): 2.0

Combined %Breakdown (1): 2.2

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.: F9M21

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/19/2015 06/19/2015

EPA Sample No. (PIBLK##): PIBLKB1 Date Analyzed: 06/19/2015

Lab Sample ID (PIBLK): PIBLKB1 Time Analyzed: 17:08

EPA Sample No. (PEM##): PEMB1 Date Analyzed: 06/19/2015

Lab Sample ID (PEM): PEMB1 Time Analyzed: 17:29

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	5.13	5.07	5.17	0.020	0.020	-1.4
beta-BHC	5.68	5.62	5.72	0.021	0.020	5.3
gamma-BHC (Lindane)	5.56	5.51	5.61	0.020	0.020	1.2
Endrin	8.74	8.67	8.81	0.096	0.100	-4.0
4,4'-DDT	9.24	9.17	9.31	0.194	0.200	-3.1
Methoxychlor	9.94	9.87	10.01	0.461	0.500	-7.9
TCX	4.38	4.33	4.43	0.040	0.040	-0.3
DCB	11.79	11.68	11.88	0.040	0.040	0.4

4,4'-DDT %Breakdown (1): 0.2 Endrin %Breakdown (1): 5.8

Combined %Breakdown (1): 6.0

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.: F9M21

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/19/2015 06/19/2015

EPA Sample No. (PIBLK##): PIBLKD1 Date Analyzed: 06/20/2015

Lab Sample ID (PIBLK): PIBLKD1 Time Analyzed: 03:38

EPA Sample No. (PEM##): PEMD1 Date Analyzed: 06/20/2015

Lab Sample ID (PEM): PEMD1 Time Analyzed: 03:58

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	5.14	5.07	5.17	0.019	0.020	-4.3
beta-BHC	5.69	5.62	5.72	0.021	0.020	3.6
gamma-BHC (Lindane)	5.57	5.51	5.61	0.020	0.020	-1.3
Endrin	8.76	8.67	8.81	0.087	0.100	-13.4
4,4'-DDT	9.26	9.17	9.31	0.179	0.200	-10.6
Methoxychlor	9.96	9.87	10.01	0.442	0.500	-11.6
TCX	4.39	4.33	4.43	0.038	0.040	-5.4
DCB	11.80	11.68	11.88	0.031	0.040	-21.7

4,4'-DDT %Breakdown (1): 3.8 Endrin %Breakdown (1): 11.1

Combined %Breakdown (1): 14.9

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.: F9M21

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##): PEMA2 Date Analyzed: 06/19/2015

Lab Sample ID (PEM): PEMA2 Time Analyzed: 13:45

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	5.61	5.55	5.65	0.020	0.020	-1.8
beta-BHC	6.25	6.19	6.29	0.021	0.020	3.4
gamma-BHC (Lindane)	6.13	6.08	6.18	0.020	0.020	0.2
Endrin	9.57	9.50	9.64	0.097	0.100	-3.5
4,4'-DDT	10.16	10.09	10.23	0.188	0.200	-6.1
Methoxychlor	11.02	10.95	11.09	0.473	0.500	-5.4
TCX	4.72	4.66	4.76	0.039	0.040	-2.7
DCB	12.62	12.52	12.72	0.041	0.040	2.1

4,4'-DDT %Breakdown (1): 2.1 Endrin %Breakdown (1): 5.3

Combined %Breakdown (1): 7.4

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.: F9M21

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/19/2015 06/19/2015

EPA Sample No. (PIBLK##): PIBLKB2 Date Analyzed: 06/19/2015

Lab Sample ID (PIBLK): PIBLKB2 Time Analyzed: 17:29

EPA Sample No. (PEM##): PEMB2 Date Analyzed: 06/19/2015

Lab Sample ID (PEM): PEMB2 Time Analyzed: 17:49

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	5.60	5.55	5.65	0.020	0.020	1.4
beta-BHC	6.24	6.19	6.29	0.021	0.020	6.8
gamma-BHC (Lindane)	6.13	6.08	6.18	0.021	0.020	3.1
Endrin	9.57	9.50	9.64	0.094	0.100	-5.7
4,4'-DDT	10.16	10.09	10.23	0.188	0.200	-5.9
Methoxychlor	11.02	10.95	11.09	0.470	0.500	-6.1
TCX	4.72	4.66	4.76	0.040	0.040	-0.5
DCB	12.62	12.52	12.72	0.041	0.040	3.4

4,4'-DDT %Breakdown (1): 2.7 Endrin %Breakdown (1): 8.4

Combined %Breakdown (1): 11.0

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.: F9M21

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/19/2015 06/19/2015

EPA Sample No. (PIBLK##): PIBLKD2 Date Analyzed: 06/20/2015

Lab Sample ID (PIBLK): PIBLKD2 Time Analyzed: 03:58

EPA Sample No. (PEM##): PEMD2 Date Analyzed: 06/20/2015

Lab Sample ID (PEM): PEMD2 Time Analyzed: 04:19

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	5.62	5.55	5.65	0.019	0.020	-3.4
beta-BHC	6.26	6.19	6.29	0.021	0.020	3.4
gamma-BHC (Lindane)	6.14	6.08	6.18	0.020	0.020	-0.3
Endrin	9.59	9.50	9.64	0.086	0.100	-14.4
4,4'-DDT	10.18	10.09	10.23	0.162	0.200	-19.0
Methoxychlor	11.04	10.95	11.09	0.419	0.500	-16.2
TCX	4.73	4.66	4.76	0.038	0.040	-5.3
DCB	12.64	12.52	12.72	0.034	0.040	-14.5

4,4'-DDT %Breakdown (1): 6.5 Endrin %Breakdown (1): 15.1

Combined %Breakdown (1): 21.6

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.: F9M21

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/19/2015 06/19/2015

EPA Sample No. (PIBLK##): PIBLKC1 Date Analyzed: 06/19/2015

Lab Sample ID (PIBLK): PIBLKC1 Time Analyzed: 23:55

EPA Sample No. (INDC3##): INDC3C1 Date Analyzed: 06/20/2015

Lab Sample ID (INDC3): INDC3C1 Time Analyzed: 00:16

INDIVIDUAL MIX C COMPOUND	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
alpha-BHC	5.14	5.07	5.17	1390000	1450000	4.6
gamma-BHC (Lindane)	5.57	5.51	5.61	1300000	1360000	4.8
Heptachlor	6.22	6.16	6.26	1210000	1260000	4.2
Endosulfan I	8.07	7.99	8.13	1140000	1160000	1.8
Dieldrin	8.42	8.33	8.47	1120000	1150000	3.2
Endrin	8.75	8.67	8.81	1020000	990000	-2.5
4,4'-DDD	8.85	8.76	8.90	944000	1000000	6.1
4,4'-DDT	9.25	9.17	9.31	926000	936000	1.0
Methoxychlor	9.95	9.87	10.01	443000	435000	-1.8
beta-BHC	5.69	5.62	5.72	705000	744000	5.4
delta-BHC	5.93	5.87	5.97	1250000	1350000	7.6
Aldrin	6.65	6.58	6.68	1200000	1240000	3.2
Heptachlor epoxide	7.51	7.42	7.56	1100000	1140000	3.3
4,4'-DDE	7.99	7.90	8.04	1140000	1170000	3.4
Endosulfan II	9.08	8.99	9.13	968000	989000	2.1
Endosulfan sulfate	10.31	10.22	10.36	852000	879000	3.2
Endrin ketone	10.67	10.59	10.73	1110000	1160000	4.2
Endrin aldehyde	9.69	9.61	9.75	823000	813000	-1.2
alpha-Chlordane	7.88	7.79	7.93	1240000	1250000	1.0
gamma-Chlordane	7.68	7.60	7.74	1200000	1240000	3.2
TCX	4.39	4.33	4.43	1100000	1090000	-1.0
DCB	11.80	11.68	11.88	849000	841000	-0.9

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.: F9M21

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/19/2015 06/19/2015

EPA Sample No. (PIBLK##): PIBLKC2 Date Analyzed: 06/20/2015

Lab Sample ID (PIBLK): PIBLKC2 Time Analyzed: 00:16

EPA Sample No. (INDC3##): INDC3C2 Date Analyzed: 06/20/2015

Lab Sample ID (INDC3): INDC3C2 Time Analyzed: 00:36

INDIVIDUAL MIX C COMPOUND	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
alpha-BHC	5.61	5.55	5.65	2250000	2290000	2.0
gamma-BHC (Lindane)	6.14	6.08	6.18	2040000	2060000	0.8
Heptachlor	6.79	6.73	6.83	1870000	1880000	0.5
Endosulfan I	8.72	8.64	8.78	1530000	1560000	1.7
Dieldrin	9.13	9.04	9.18	1600000	1610000	0.6
Endrin	9.59	9.50	9.64	1370000	1290000	-5.3
4,4'-DDD	9.72	9.64	9.78	1270000	1350000	6.5
4,4'-DDT	10.17	10.09	10.23	1320000	1230000	-7.3
Methoxychlor	11.03	10.95	11.09	601000	555000	-7.8
beta-BHC	6.25	6.19	6.29	1090000	1080000	-0.5
delta-BHC	6.69	6.63	6.73	1920000	1990000	3.5
Aldrin	7.28	7.22	7.32	1800000	1830000	1.8
Heptachlor epoxide	8.13	8.05	8.19	1610000	1670000	3.7
4,4'-DDE	8.86	8.78	8.92	1600000	1610000	0.2
Endosulfan II	9.90	9.81	9.95	1330000	1350000	1.5
Endosulfan sulfate	10.72	10.64	10.78	1170000	1180000	1.0
Endrin ketone	11.37	11.29	11.43	1430000	1440000	1.0
Endrin aldehyde	10.37	10.28	10.42	1090000	1000000	-7.6
alpha-Chlordane	8.63	8.54	8.68	1720000	1740000	1.2
gamma-Chlordane	8.41	8.32	8.46	1720000	1750000	1.5
TCX	4.72	4.66	4.76	1780000	1770000	-0.8
DCB	12.63	12.52	12.72	1140000	1110000	-2.7

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.: F9M21

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/19/2015 06/19/2015

Instrument ID: GCE31

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.38 DCB: 11.78

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESCA1	31150619A004	06/19/2015	13:04	4.38	11.79
02	PEMA1	31150619A005	06/19/2015	13:24	4.38	11.79
03	TOXAPH1A1	31150619A006	06/19/2015	13:45	4.38	11.78
04	TOXAPH2A1	31150619A007	06/19/2015	14:05	4.38	11.78
05	TOXAPH3A1	31150619A008	06/19/2015	14:26	4.38	11.78
06	TOXAPH4A1	31150619A009	06/19/2015	14:46	4.38	11.78
07	TOXAPH5A1	31150619A010	06/19/2015	15:06	4.38	11.78
08	INDC1A1	31150619A011	06/19/2015	15:27	4.38	11.78
09	INDC2A1	31150619A012	06/19/2015	15:47	4.38	11.78
10	INDC3A1	31150619A013	06/19/2015	16:08	4.38	11.78
11	INDC4A1	31150619A014	06/19/2015	16:28	4.38	11.79
12	INDC5A1	31150619A015	06/19/2015	16:48	4.38	11.79
13	PIBLKB1	31150619A016	06/19/2015	17:08	4.38	11.79
14	PEMB1	31150619A017	06/19/2015	17:29	4.38	11.79
15	PBLKS1	31150619A018	06/19/2015	17:49	4.38	11.79
16	PLCSS1	31150619A019	06/19/2015	18:10	4.38	11.79
17	F9M27	31150619A020	06/19/2015	18:30	4.38	11.79
18	F9M27MS	31150619A021	06/19/2015	18:50	4.38	11.79
19	F9M27MSD	31150619A022	06/19/2015	19:11	4.38	11.79
20	F9M29	31150619A023	06/19/2015	19:31	4.38	11.79
21	F9M30	31150619A024	06/19/2015	19:52	4.38	11.79
22	F9M31	31150619A025	06/19/2015	20:12	4.38	11.79
23	F9M32	31150619A026	06/19/2015	20:32	4.38	11.79
24	F9M33	31150619A027	06/19/2015	20:53	4.38	11.79
25	F9M34	31150619A028	06/19/2015	21:13	4.38	11.79
26	F9M35	31150619A029	06/19/2015	21:33	4.38	11.79
27	F9M37	31150619A030	06/19/2015	21:53	4.38	11.79
28	F9M38	31150619A031	06/19/2015	22:14	4.38	11.79
29	F9M39	31150619A032	06/19/2015	22:34	4.39	11.79
30	F9M40	31150619A033	06/19/2015	22:54	4.39	11.79
31	F9M41	31150619A034	06/19/2015	23:15	4.39	11.80
32	ZZZZZ		06/19/2015	23:35		

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.: F9M21

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/19/2015 06/19/2015

Instrument ID: GCE31

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.38 DCB: 11.78

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	PIBLKC1	31150619A036	06/19/2015	23:55	4.39	11.79
02	INDC3C1	31150619A037	06/20/2015	00:16	4.39	11.80
03	ZZZZZ		06/20/2015	00:36		
04	F9M21	31150619A039	06/20/2015	00:56	4.39	11.80
05	F9M22	31150619A040	06/20/2015	01:16	4.39	11.80
06	F9M23	31150619A041	06/20/2015	01:36	4.39	11.80
07	F9M24	31150619A042	06/20/2015	01:57	4.39	11.80
08	F9M25	31150619A043	06/20/2015	02:17	4.39	11.80
09	F9M26	31150619A044	06/20/2015	02:37	4.39	11.80
10	F9M28	31150619A045	06/20/2015	02:57	4.39	11.80
11	ZZZZZ		06/20/2015	03:18		
12	PIBLKD1	31150619A047	06/20/2015	03:38	4.39	11.80
13	PEMD1	31150619A048	06/20/2015	03:58	4.39	11.80
14						
15						
16						
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25						
26						
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.

8G - FORM VIII PEST
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/19/2015 06/19/2015

Instrument ID: GCE31

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.71 DCB: 12.62

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESCA2	31150619B004	06/19/2015	13:24	4.72	12.62
02	PEMA2	31150619B005	06/19/2015	13:45	4.72	12.62
03	TOXAPH1A2	31150619B006	06/19/2015	14:05	4.72	12.62
04	TOXAPH2A2	31150619B007	06/19/2015	14:26	4.72	12.62
05	TOXAPH3A2	31150619B008	06/19/2015	14:46	4.72	12.62
06	TOXAPH4A2	31150619B009	06/19/2015	15:06	4.72	12.62
07	TOXAPH5A2	31150619B010	06/19/2015	15:27	4.71	12.62
08	INDC1A2	31150619B011	06/19/2015	15:47	4.72	12.62
09	INDC2A2	31150619B012	06/19/2015	16:08	4.72	12.62
10	INDC3A2	31150619B013	06/19/2015	16:28	4.71	12.62
11	INDC4A2	31150619B014	06/19/2015	16:48	4.71	12.62
12	INDC5A2	31150619B015	06/19/2015	17:08	4.71	12.62
13	PIBLKB2	31150619B016	06/19/2015	17:29	4.72	12.62
14	PEMB2	31150619B017	06/19/2015	17:49	4.72	12.62
15	PBLKS1	31150619B018	06/19/2015	18:10	4.72	12.62
16	PLCSS1	31150619B019	06/19/2015	18:30	4.72	12.62
17	F9M27	31150619B020	06/19/2015	18:50	4.72	12.62
18	F9M27MS	31150619B021	06/19/2015	19:11	4.72	12.62
19	F9M27MSD	31150619B022	06/19/2015	19:31	4.72	12.62
20	F9M29	31150619B023	06/19/2015	19:52	4.72	12.62
21	F9M30	31150619B024	06/19/2015	20:12	4.72	12.62
22	F9M31	31150619B025	06/19/2015	20:32	4.72	12.63
23	F9M32	31150619B026	06/19/2015	20:53	4.72	12.63
24	F9M33	31150619B027	06/19/2015	21:13	4.72	12.63
25	F9M34	31150619B028	06/19/2015	21:33	4.72	12.63
26	F9M35	31150619B029	06/19/2015	21:53	4.72	12.63
27	F9M37	31150619B030	06/19/2015	22:14	4.72	12.63
28	F9M38	31150619B031	06/19/2015	22:34	4.72	12.63
29	F9M39	31150619B032	06/19/2015	22:54	4.72	12.63
30	F9M40	31150619B033	06/19/2015	23:15	4.72	12.63
31	F9M41	31150619B034	06/19/2015	23:35	4.72	12.63
32	ZZZZZ		06/19/2015	23:55		

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.: F9M21

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/19/2015 06/19/2015

Instrument ID: GCE31

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.71 DCB: 12.62

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	PIBLKC2	31150619B036	06/20/2015	00:16	4.72	12.63
02	INDC3C2	31150619B037	06/20/2015	00:36	4.72	12.63
03	ZZZZZ		06/20/2015	00:56		
04	F9M21	31150619B039	06/20/2015	01:16	4.72	12.63
05	F9M22	31150619B040	06/20/2015	01:36	4.72	12.63
06	F9M23	31150619B041	06/20/2015	01:57	4.73	12.63
07	F9M24	31150619B042	06/20/2015	02:17	4.73	12.64
08	F9M25	31150619B043	06/20/2015	02:37	4.73	12.63
09	F9M26	31150619B044	06/20/2015	02:57	4.73	12.64
10	F9M28	31150619B045	06/20/2015	03:18	4.73	12.63
11	ZZZZZ		06/20/2015	03:38		
12	PIBLKD2	31150619B047	06/20/2015	03:58	4.73	12.64
13	PEMD2	31150619B048	06/20/2015	04:19	4.73	12.64
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
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.

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.: F9M21

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	450194	06/19/2015	06/19/2015
02	PLCSS1	450195	06/19/2015	06/19/2015
03	F9M27	1515542007	06/19/2015	06/19/2015
04	F9M27MS	1515542008	06/19/2015	06/19/2015
05	F9M27MSD	1515542009	06/19/2015	06/19/2015
06	F9M29	1515542011	06/19/2015	06/19/2015
07	F9M30	1515542012	06/19/2015	06/19/2015
08	F9M31	1515542013	06/19/2015	06/19/2015
09	F9M32	1515542014	06/19/2015	06/19/2015
10	F9M33	1515542015	06/19/2015	06/19/2015
11	F9M34	1515542016	06/19/2015	06/19/2015
12	F9M35	1515542017	06/19/2015	06/19/2015
13	F9M37	1515542018	06/19/2015	06/19/2015
14	F9M38	1515542019	06/19/2015	06/19/2015
15	F9M39	1515542020	06/19/2015	06/19/2015
16	F9M40	1515542021	06/19/2015	06/19/2015
17	F9M41	1515542022	06/19/2015	06/19/2015
18	F9M21	1515542001	06/20/2015	06/20/2015
19	F9M22	1515542002	06/20/2015	06/20/2015
20	F9M23	1515542003	06/20/2015	06/20/2015
21	F9M24	1515542004	06/20/2015	06/20/2015
22	F9M25	1515542005	06/20/2015	06/20/2015
23	F9M26	1515542006	06/20/2015	06/20/2015

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

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.: F9M21

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	F9M28	1515542010	06/20/2015	06/20/2015
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				

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.: F9M21

GPC Column: GPC6 Calibration Verification Date: 06/03/2015

GC Column: RTXCLP2 ID: 0.32 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	%REC #	QC LIMITS
gamma-BHC (Lindane)	0.020	0.020	99	80-110
Heptachlor	0.020	0.018	88	80-110
Aldrin	0.020	0.021	106	80-110
Dieldrin	0.040	0.041	103	80-110
Endrin	0.040	0.038	95	80-110
4,4'-DDT	0.040	0.041	104	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	450194	06/06/2015
02	PLCSS1	450195	06/06/2015
03	F9M27	1515542007	06/06/2015
04	F9M27MS	1515542008	06/06/2015
05	F9M27MSD	1515542009	06/06/2015
06	F9M29	1515542011	06/06/2015
07	F9M30	1515542012	06/06/2015
08	F9M31	1515542013	06/06/2015
09	F9M32	1515542014	06/06/2015
10	F9M33	1515542015	06/06/2015
11	F9M34	1515542016	06/06/2015
12	F9M35	1515542017	06/06/2015
13	F9M37	1515542018	06/06/2015
14	F9M38	1515542019	06/06/2015
15	F9M39	1515542020	06/06/2015
16	F9M40	1515542021	06/06/2015
17	F9M41	1515542022	06/06/2015
18	F9M21	1515542001	06/06/2015
19	F9M22	1515542002	06/06/2015
20	F9M23	1515542003	06/06/2015
21	F9M24	1515542004	06/06/2015
22	F9M25	1515542005	06/06/2015
23	F9M26	1515542006	06/06/2015

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.: F9M21

GPC Column: GPC6 Calibration Verification Date: 06/03/2015

GC Column: RTXCLP2 ID: 0.32 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	%REC #	QC LIMITS
gamma-BHC (Lindane)	0.020	0.020	99	80-110
Heptachlor	0.020	0.018	88	80-110
Aldrin	0.020	0.021	106	80-110
Dieldrin	0.040	0.041	103	80-110
Endrin	0.040	0.038	95	80-110
4,4'-DDT	0.040	0.041	104	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	F9M28	1515542010	06/06/2015
02			
03			
04			
05			
06			
07			
08			
09			
10			
11			
12			
13			
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20			
21			
22			
23			

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M21

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542001 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	5.14	5.07	5.17	0.61	
	2	5.58	5.55	5.65	0.50	22.7
beta-BHC	1	5.65	5.62	5.72	1.0	
	2	6.25	6.19	6.29	0.26	277.7
delta-BHC	1	5.89	5.87	5.97	0.30	
	2	6.66	6.63	6.73	2.1	622.1
gamma-BHC (Lindane)	1	5.60	5.51	5.61	0.12	
	2	6.11	6.08	6.18	0.099	24.7
Aldrin	1	6.63	6.58	6.68	0.45	
	2	7.22	7.22	7.32	0.36	27.1
Heptachlor epoxide	1	7.50	7.42	7.56	1.8	
	2	8.15	8.05	8.19	2.6	49.9
Dieldrin	1	8.38	8.33	8.47	0.58	
	2	9.09	9.04	9.18	2.0	246.5
4,4'-DDE	1	7.93	7.90	8.04	0.72	
	2	8.82	8.78	8.92	0.59	22.9

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M21

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542001 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	8.70	8.67	8.81	0.67	
	2	9.55	9.50	9.64	1.4	105.6
Endosulfan II	1	9.10	8.99	9.13	0.092	
	2	9.89	9.81	9.95	1.7	999.9
4,4'-DDD	1	8.82	8.76	8.90	2.6	
	2	9.70	9.64	9.78	1.0	148.5
Endosulfan sulfate	1	10.27	10.22	10.36	0.23	
	2	10.73	10.64	10.78	0.23	1.2
4,4'-DDT	1	9.27	9.17	9.31	0.72	
	2	10.20	10.09	10.23	1.0	46.0
Endrin ketone	1	10.65	10.59	10.73	0.58	
	2	11.38	11.29	11.43	0.52	11.7
Endrin aldehyde	1	9.71	9.61	9.75	0.78	
	2	10.29	10.28	10.42	5.0	539.5
alpha-Chlordane	1	7.85	7.79	7.93	1.8	
	2	8.62	8.54	8.68	0.32	474.7

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M21

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542001 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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-Chlordane	1	7.68	7.60	7.74	1.1	
	2	8.41	8.32	8.46	1.5	28.2
	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.

F9M22

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542002 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	5.15	5.07	5.17	0.067	
	2	5.58	5.55	5.65	0.19	192.7
beta-BHC	1	5.65	5.62	5.72	0.42	
	2	6.25	6.19	6.29	0.26	60.2
Aldrin	1	6.63	6.58	6.68	0.81	
	2	7.22	7.22	7.32	0.29	184.3
Heptachlor epoxide	1	7.50	7.42	7.56	0.55	
	2	8.15	8.05	8.19	1.3	139.7
Endrin	1	8.70	8.67	8.81	0.75	
	2	9.55	9.50	9.64	0.54	39.6
Endosulfan II	1	9.10	8.99	9.13	0.064	
	2	9.86	9.81	9.95	0.35	447.3
4,4'-DDD	1	8.82	8.76	8.90	1.8	
	2	9.74	9.64	9.78	0.43	320.2
Endosulfan sulfate	1	10.22	10.22	10.36	0.049	
	2	10.65	10.64	10.78	1.8	999.9

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M22

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542002 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	9.27	9.17	9.31	0.20	
	2	10.17	10.09	10.23	0.90	358.0
Endrin ketone	1	10.66	10.59	10.73	0.23	
	2	11.33	11.29	11.43	0.14	64.0
Endrin aldehyde	1	9.71	9.61	9.75	0.14	
	2	10.36	10.28	10.42	0.74	436.1
gamma-Chlordane	1	7.66	7.60	7.74	0.22	
	2	8.40	8.32	8.46	0.65	202.3
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M23

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542003 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	5.12	5.07	5.17	2.8	
	2	5.57	5.55	5.65	1.2	125.0
gamma-BHC (Lindane)	1	5.59	5.51	5.61	0.19	
	2	6.11	6.08	6.18	5.6	999.9
Heptachlor epoxide	1	7.47	7.42	7.56	2.6	
	2	8.12	8.05	8.19	8.3	217.2
Endosulfan I	1	8.09	7.99	8.13	3.4	
	2	8.72	8.64	8.78	4.5	31.8
4,4'-DDE	1	8.01	7.90	8.04	10.	
	2	8.85	8.78	8.92	20.	96.0
Endrin	1	8.71	8.67	8.81	14.	
	2	9.60	9.50	9.64	4.4	219.8
4,4'-DDD	1	8.83	8.76	8.90	41.	
	2	9.68	9.64	9.78	1.7	999.9
Endosulfan sulfate	1	10.28	10.22	10.36	24.	
	2	10.74	10.64	10.78	8.0	202.8

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M23

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542003 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	9.28	9.17	9.31	23.	
	2	10.12	10.09	10.23	8.6	164.6
Endrin ketone	1	10.64	10.59	10.73	26.	
	2	11.39	11.29	11.43	16.	61.0
Endrin aldehyde	1	9.69	9.61	9.75	37.	
	2	10.40	10.28	10.42	5.1	627.5
gamma-Chlordane	1	7.72	7.60	7.74	4.1	
	2	8.41	8.32	8.46	2.8	45.7
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M24

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542004 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	5.12	5.07	5.17	0.41	
	2	5.58	5.55	5.65	0.27	52.0
beta-BHC	1	5.67	5.62	5.72	0.31	
	2	6.22	6.19	6.29	0.45	46.6
delta-BHC	1	5.92	5.87	5.97	0.30	
	2	6.66	6.63	6.73	0.52	72.2
Aldrin	1	6.63	6.58	6.68	0.11	
	2	7.23	7.22	7.32	0.65	474.2
Heptachlor epoxide	1	7.47	7.42	7.56	0.22	
	2	8.12	8.05	8.19	0.89	297.5
Endosulfan I	1	8.09	7.99	8.13	0.34	
	2	8.72	8.64	8.78	0.31	10.5
4,4'-DDE	1	8.01	7.90	8.04	0.83	
	2	8.85	8.78	8.92	0.39	113.1
Endrin	1	8.71	8.67	8.81	1.4	
	2	9.60	9.50	9.64	0.43	217.9

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M24

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542004 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	8.83	8.76	8.90	3.4	
	2	9.74	9.64	9.78	1.9	76.0
Endosulfan sulfate	1	10.28	10.22	10.36	2.0	
	2	10.75	10.64	10.78	0.84	141.6
4,4'-DDT	1	9.27	9.17	9.31	2.5	
	2	10.13	10.09	10.23	0.74	232.1
Endrin ketone	1	10.64	10.59	10.73	1.9	
	2	11.32	11.29	11.43	1.3	47.8
Endrin aldehyde	1	9.68	9.61	9.75	1.9	
	2	10.40	10.28	10.42	0.62	201.8
gamma-Chlordane	1	7.72	7.60	7.74	0.39	
	2	8.41	8.32	8.46	0.29	32.3
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M25

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542005 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	5.15	5.07	5.17	0.30	
	2	5.58	5.55	5.65	0.49	60.9
beta-BHC	1	5.65	5.62	5.72	0.49	
	2	6.21	6.19	6.29	0.70	43.5
delta-BHC	1	5.89	5.87	5.97	0.13	
	2	6.66	6.63	6.73	3.1	999.9
gamma-BHC (Lindane)	1	5.53	5.51	5.61	0.12	
	2	6.15	6.08	6.18	1.2	911.0
Aldrin	1	6.63	6.58	6.68	0.17	
	2	7.22	7.22	7.32	0.37	125.3
Heptachlor epoxide	1	7.49	7.42	7.56	2.0	
	2	8.15	8.05	8.19	3.0	52.7
Dieldrin	1	8.35	8.33	8.47	1.9	
	2	9.09	9.04	9.18	3.0	56.9
4,4'-DDE	1	7.96	7.90	8.04	0.51	
	2	8.83	8.78	8.92	4.5	780.0

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M25

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542005 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	8.68	8.67	8.81	1.2	
	2	9.56	9.50	9.64	0.058	999.9
4,4'-DDD	1	8.82	8.76	8.90	3.2	
	2	9.67	9.64	9.78	2.0	56.5
4,4'-DDT	1	9.25	9.17	9.31	0.85	
	2	10.20	10.09	10.23	2.5	194.1
Endrin ketone	1	10.63	10.59	10.73	1.2	
	2	11.38	11.29	11.43	1.3	13.9
Endrin aldehyde	1	9.71	9.61	9.75	9.7	
	2	10.34	10.28	10.42	2.0	388.2
alpha-Chlordane	1	7.86	7.79	7.93	1.9	
	2	8.63	8.54	8.68	0.55	242.6
gamma-Chlordane	1	7.68	7.60	7.74	1.7	
	2	8.41	8.32	8.46	1.2	38.8
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M26

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542006 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	5.15	5.07	5.17	0.20	
	2	5.58	5.55	5.65	0.56	175.9
beta-BHC	1	5.65	5.62	5.72	1.2	
	2	6.26	6.19	6.29	0.23	432.1
delta-BHC	1	5.96	5.87	5.97	0.23	
	2	6.66	6.63	6.73	1.0	341.0
gamma-BHC (Lindane)	1	5.60	5.51	5.61	0.11	
	2	6.11	6.08	6.18	0.25	130.6
Aldrin	1	6.63	6.58	6.68	0.59	
	2	7.22	7.22	7.32	0.29	106.2
Heptachlor epoxide	1	7.49	7.42	7.56	1.6	
	2	8.15	8.05	8.19	2.4	56.9
Dieldrin	1	8.35	8.33	8.47	1.8	
	2	9.09	9.04	9.18	2.1	17.9
4,4'-DDE	1	7.96	7.90	8.04	0.51	
	2	8.83	8.78	8.92	2.6	416.8

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M26

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542006 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	9.10	8.99	9.13	0.16	
	2	9.86	9.81	9.95	0.16	0.4
4,4'-DDD	1	8.82	8.76	8.90	1.8	
	2	9.74	9.64	9.78	0.47	276.5
4,4'-DDT	1	9.27	9.17	9.31	0.41	
	2	10.19	10.09	10.23	1.5	277.8
Endrin ketone	1	10.65	10.59	10.73	1.3	
	2	11.38	11.29	11.43	1.5	17.0
Endrin aldehyde	1	9.64	9.61	9.75	0.43	
	2	10.29	10.28	10.42	7.3	999.9
gamma-Chlordane	1	7.66	7.60	7.74	0.68	
	2	8.41	8.32	8.46	0.88	29.2
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M27

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542007 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	5.64	5.62	5.72	0.29	
	2	6.24	6.19	6.29	0.13	124.0
delta-BHC	1	5.94	5.87	5.97	0.11	
	2	6.65	6.63	6.73	0.80	649.6
Heptachlor	1	6.19	6.16	6.26	0.15	
	2	6.82	6.73	6.83	0.32	107.8
Heptachlor epoxide	1	7.48	7.42	7.56	0.50	
	2	8.14	8.05	8.19	1.7	245.4
Dieldrin	1	8.46	8.33	8.47	0.15	
	2	9.08	9.04	9.18	1.1	651.1
4,4'-DDE	1	7.95	7.90	8.04	0.19	
	2	8.82	8.78	8.92	1.0	433.5
Endrin	1	8.68	8.67	8.81	0.55	
	2	9.54	9.50	9.64	0.20	171.8
Endosulfan II	1	9.09	8.99	9.13	0.065	
	2	9.88	9.81	9.95	1.1	999.9

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M27

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542007 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	8.81	8.76	8.90	0.64	
	2	9.73	9.64	9.78	0.24	163.8
4,4'-DDT	1	9.26	9.17	9.31	0.33	
	2	10.18	10.09	10.23	1.0	207.6
Endrin ketone	1	10.65	10.59	10.73	0.69	
	2	11.37	11.29	11.43	0.63	9.8
Endrin aldehyde	1	9.70	9.61	9.75	1.3	
	2	10.34	10.28	10.42	0.89	45.3
gamma-Chlordane	1	7.65	7.60	7.74	0.069	
	2	8.39	8.32	8.46	0.85	999.9
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M27MS

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542008 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	5.14	5.07	5.17	0.087	
	2	5.57	5.55	5.65	0.19	115.1
delta-BHC	1	5.92	5.87	5.97	0.24	
	2	6.65	6.63	6.73	1.1	341.1
gamma-BHC (Lindane)	1	5.56	5.51	5.61	17.	
	2	6.13	6.08	6.18	16.	4.0
Heptachlor	1	6.21	6.16	6.26	17.	
	2	6.78	6.73	6.83	17.	3.7
Aldrin	1	6.63	6.58	6.68	17.	
	2	7.27	7.22	7.32	15.	16.0
Heptachlor epoxide	1	7.48	7.42	7.56	0.58	
	2	8.14	8.05	8.19	0.91	56.4
Dieldrin	1	8.41	8.33	8.47	31.	
	2	9.11	9.04	9.18	34.	8.4
4,4'-DDE	1	7.97	7.90	8.04	0.17	
	2	8.81	8.78	8.92	5.9	999.9

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M27MS

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542008 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	8.74	8.67	8.81	35.	
	2	9.57	9.50	9.64	34.	1.3
Endosulfan II	1	9.08	8.99	9.13	0.070	
	2	9.88	9.81	9.95	0.46	558.5
4,4'-DDT	1	9.24	9.17	9.31	35.	
	2	10.16	10.09	10.23	32.	8.1
Endrin ketone	1	10.66	10.59	10.73	3.0	
	2	11.36	11.29	11.43	3.3	9.2
Endrin aldehyde	1	9.70	9.61	9.75	3.0	
	2	10.35	10.28	10.42	1.3	136.9
gamma-Chlordane	1	7.65	7.60	7.74	0.067	
	2	8.39	8.32	8.46	3.2	999.9
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M27MSD

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542009 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	5.14	5.07	5.17	0.13	
	2	5.57	5.55	5.65	0.19	44.4
delta-BHC	1	5.91	5.87	5.97	0.19	
	2	6.65	6.63	6.73	0.75	302.9
gamma-BHC (Lindane)	1	5.56	5.51	5.61	19.	
	2	6.13	6.08	6.18	19.	3.4
Heptachlor	1	6.21	6.16	6.26	20.	
	2	6.78	6.73	6.83	18.	8.8
Aldrin	1	6.63	6.58	6.68	20.	
	2	7.27	7.22	7.32	17.	18.0
Heptachlor epoxide	1	7.48	7.42	7.56	0.46	
	2	8.14	8.05	8.19	0.80	73.9
Dieldrin	1	8.41	8.33	8.47	36.	
	2	9.12	9.04	9.18	38.	4.8
4,4'-DDE	1	7.97	7.90	8.04	0.18	
	2	8.81	8.78	8.92	2.9	999.9

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M27MSD

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542009 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	8.74	8.67	8.81	39.	
	2	9.57	9.50	9.64	39.	1.2
Endosulfan II	1	9.09	8.99	9.13	0.12	
	2	9.89	9.81	9.95	1.7	999.9
4,4'-DDT	1	9.24	9.17	9.31	39.	
	2	10.16	10.09	10.23	36.	7.9
Endrin ketone	1	10.66	10.59	10.73	2.7	
	2	11.36	11.29	11.43	3.1	13.7
Endrin aldehyde	1	9.70	9.61	9.75	2.7	
	2	10.35	10.28	10.42	1.6	67.8
gamma-Chlordane	1	7.65	7.60	7.74	0.15	
	2	8.38	8.32	8.46	1.2	703.0
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M28

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542010 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	5.15	5.07	5.17	0.33	
	2	5.58	5.55	5.65	0.58	78.2
gamma-BHC (Lindane)	1	5.53	5.51	5.61	0.56	
	2	6.16	6.08	6.18	1.6	183.6
Heptachlor	1	6.24	6.16	6.26	2.4	
	2	6.79	6.73	6.83	0.48	399.1
Aldrin	1	6.63	6.58	6.68	0.29	
	2	7.22	7.22	7.32	0.33	14.5
Heptachlor epoxide	1	7.51	7.42	7.56	0.28	
	2	8.13	8.05	8.19	0.24	15.7
Endrin	1	8.71	8.67	8.81	0.83	
	2	9.55	9.50	9.64	0.24	246.3
Endosulfan II	1	9.10	8.99	9.13	0.045	
	2	9.86	9.81	9.95	0.50	999.9
4,4'-DDD	1	8.82	8.76	8.90	1.7	
	2	9.70	9.64	9.78	0.20	772.2

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M28

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542010 Date(s) Analyzed: 06/20/2015 06/20/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	10.28	10.22	10.36	0.062	
	2	10.65	10.64	10.78	0.65	937.0
4,4'-DDT	1	9.27	9.17	9.31	0.21	
	2	10.19	10.09	10.23	0.36	67.9
Endrin ketone	1	10.63	10.59	10.73	0.43	
	2	11.33	11.29	11.43	0.078	446.4
Endrin aldehyde	1	9.71	9.61	9.75	0.67	
	2	10.29	10.28	10.42	2.1	208.6
alpha-Chlordane	1	7.85	7.79	7.93	0.89	
	2	8.62	8.54	8.68	0.41	114.7
gamma-Chlordane	1	7.68	7.60	7.74	0.58	
	2	8.41	8.32	8.46	0.60	4.1
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M29

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542011 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	5.14	5.07	5.17	0.098	
	2	5.57	5.55	5.65	0.14	48.2
Dieldrin	1	8.46	8.33	8.47	0.15	
	2	9.07	9.04	9.18	0.65	322.8
4,4'-DDE	1	7.93	7.90	8.04	0.055	
	2	8.81	8.78	8.92	4.5	999.9
Endosulfan II	1	9.00	8.99	9.13	0.22	
	2	9.95	9.81	9.95	0.19	15.5
Endosulfan sulfate	1	10.35	10.22	10.36	0.081	
	2	10.72	10.64	10.78	0.14	69.7
4,4'-DDT	1	9.24	9.17	9.31	0.11	
	2	10.17	10.09	10.23	0.27	137.8
gamma-Chlordane	1	7.65	7.60	7.74	0.20	
	2	8.39	8.32	8.46	3.9	999.9
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M30

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542012 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	5.14	5.07	5.17	0.044	
	2	5.56	5.55	5.65	0.10	131.9
beta-BHC	1	5.64	5.62	5.72	0.10	
	2	6.20	6.19	6.29	0.19	79.6
delta-BHC	1	5.92	5.87	5.97	0.11	
	2	6.65	6.63	6.73	0.96	746.7
Dieldrin	1	8.47	8.33	8.47	0.14	
	2	9.07	9.04	9.18	0.18	30.8
4,4'-DDE	1	7.93	7.90	8.04	0.070	
	2	8.82	8.78	8.92	1.0	999.9
Endrin	1	8.74	8.67	8.81	0.44	
	2	9.54	9.50	9.64	1.6	268.5
Endosulfan II	1	9.09	8.99	9.13	0.017	
	2	9.95	9.81	9.95	1.1	999.9
4,4'-DDD	1	8.82	8.76	8.90	0.24	
	2	9.72	9.64	9.78	0.53	116.5

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M30

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542012 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	9.70	9.61	9.75	0.34	
	2	10.35	10.28	10.42	0.86	150.5
	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.

F9M31

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542013 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	5.14	5.07	5.17	0.49	
	2	5.57	5.55	5.65	0.45	9.8
beta-BHC	1	5.64	5.62	5.72	1.2	
	2	6.27	6.19	6.29	0.096	999.9
delta-BHC	1	5.91	5.87	5.97	0.093	
	2	6.65	6.63	6.73	3.0	999.9
gamma-BHC (Lindane)	1	5.59	5.51	5.61	0.48	
	2	6.15	6.08	6.18	0.22	117.3
Heptachlor epoxide	1	7.48	7.42	7.56	1.8	
	2	8.14	8.05	8.19	0.64	172.0
Dieldrin	1	8.46	8.33	8.47	0.35	
	2	9.08	9.04	9.18	1.3	256.6
4,4'-DDE	1	7.92	7.90	8.04	0.086	
	2	8.82	8.78	8.92	1.2	999.9
Endrin	1	8.67	8.67	8.81	0.74	
	2	9.54	9.50	9.64	2.5	231.5

10A - FORM X PEST-1

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M31

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542013 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	9.00	8.99	9.13	1.3	
	2	9.84	9.81	9.95	0.66	94.3
Endosulfan sulfate	1	10.36	10.22	10.36	0.21	
	2	10.72	10.64	10.78	0.31	50.4
4,4'-DDT	1	9.24	9.17	9.31	0.55	
	2	10.17	10.09	10.23	0.27	106.0
Endrin ketone	1	10.69	10.59	10.73	0.27	
	2	11.37	11.29	11.43	0.24	11.9
Endrin aldehyde	1	9.70	9.61	9.75	0.63	
	2	10.35	10.28	10.42	0.98	56.4
gamma-Chlordane	1	7.65	7.60	7.74	0.38	
	2	8.39	8.32	8.46	0.61	62.4
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
F9M32

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542014 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	5.14	5.07	5.17	0.12	
	2	5.57	5.55	5.65	0.13	14.0
gamma-BHC (Lindane)	1	5.59	5.51	5.61	0.068	
	2	6.15	6.08	6.18	0.37	446.3
Dieldrin	1	8.46	8.33	8.47	0.14	
	2	9.08	9.04	9.18	1.2	774.9
4,4'-DDE	1	7.95	7.90	8.04	0.040	
	2	8.82	8.78	8.92	3.1	999.9
Endrin	1	8.68	8.67	8.81	0.66	
	2	9.54	9.50	9.64	1.2	80.9
Endosulfan II	1	9.00	8.99	9.13	0.39	
	2	9.85	9.81	9.95	0.26	52.4
4,4'-DDD	1	8.81	8.76	8.90	1.8	
	2	9.73	9.64	9.78	0.27	551.0
4,4'-DDT	1	9.26	9.17	9.31	0.23	
	2	10.15	10.09	10.23	0.89	284.0

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M32

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542014 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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-Chlordane	1	7.65	7.60	7.74	0.23	
	2	8.40	8.32	8.46	0.61	171.7
	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.

F9M33

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542015 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	5.14	5.07	5.17	0.064	
	2	5.57	5.55	5.65	0.25	292.1
beta-BHC	1	5.64	5.62	5.72	0.49	
	2	6.24	6.19	6.29	0.32	53.4
Heptachlor epoxide	1	7.48	7.42	7.56	0.51	
	2	8.14	8.05	8.19	0.51	1.0
Dieldrin	1	8.34	8.33	8.47	0.42	
	2	9.08	9.04	9.18	0.46	10.2
4,4'-DDE	1	7.95	7.90	8.04	0.25	
	2	8.82	8.78	8.92	1.2	378.9
Endosulfan II	1	9.09	8.99	9.13	0.042	
	2	9.85	9.81	9.95	1.2	999.9
4,4'-DDD	1	8.82	8.76	8.90	1.3	
	2	9.73	9.64	9.78	0.79	69.5
Endosulfan sulfate	1	10.31	10.22	10.36	0.057	
	2	10.72	10.64	10.78	0.30	431.7

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M33

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542015 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	9.27	9.17	9.31	0.16	
	2	10.18	10.09	10.23	0.52	223.0
Endrin aldehyde	1	9.70	9.61	9.75	0.81	
	2	10.35	10.28	10.42	0.42	89.7
gamma-Chlordane	1	7.65	7.60	7.74	0.058	
	2	8.39	8.32	8.46	0.96	999.9
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M34

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542016 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	5.13	5.07	5.17	0.72	
	2	5.57	5.55	5.65	0.28	161.1
delta-BHC	1	5.94	5.87	5.97	0.17	
	2	6.64	6.63	6.73	0.64	275.6
gamma-BHC (Lindane)	1	5.52	5.51	5.61	0.25	
	2	6.14	6.08	6.18	0.97	288.6
Heptachlor	1	6.22	6.16	6.26	0.99	
	2	6.77	6.73	6.83	0.28	260.1
Heptachlor epoxide	1	7.48	7.42	7.56	0.58	
	2	8.11	8.05	8.19	0.20	188.9
Dieldrin	1	8.37	8.33	8.47	0.34	
	2	9.08	9.04	9.18	2.4	591.9
4,4'-DDE	1	7.98	7.90	8.04	1.8	
	2	8.83	8.78	8.92	2.2	28.1
Endrin	1	8.68	8.67	8.81	0.48	
	2	9.54	9.50	9.64	3.3	589.6

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M34

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542016 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	9.00	8.99	9.13	0.76	
	2	9.88	9.81	9.95	0.72	6.5
4,4'-DDD	1	8.81	8.76	8.90	2.0	
	2	9.73	9.64	9.78	0.66	206.2
4,4'-DDT	1	9.24	9.17	9.31	0.53	
	2	10.17	10.09	10.23	0.51	4.9
Endrin ketone	1	10.60	10.59	10.73	0.73	
	2	11.37	11.29	11.43	0.29	152.1
Endrin aldehyde	1	9.74	9.61	9.75	0.33	
	2	10.35	10.28	10.42	2.3	598.8
gamma-Chlordane	1	7.66	7.60	7.74	0.73	
	2	8.39	8.32	8.46	0.98	33.6
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M35

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542017 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	5.13	5.07	5.17	0.63	
	2	5.57	5.55	5.65	0.30	105.5
beta-BHC	1	5.64	5.62	5.72	0.61	
	2	6.20	6.19	6.29	0.62	1.8
delta-BHC	1	5.95	5.87	5.97	0.18	
	2	6.64	6.63	6.73	0.50	183.3
gamma-BHC (Lindane)	1	5.59	5.51	5.61	0.47	
	2	6.14	6.08	6.18	0.72	55.3
Heptachlor	1	6.22	6.16	6.26	0.32	
	2	6.77	6.73	6.83	0.40	25.5
Dieldrin	1	8.44	8.33	8.47	0.61	
	2	9.08	9.04	9.18	1.9	213.7
4,4'-DDE	1	7.98	7.90	8.04	0.40	
	2	8.82	8.78	8.92	2.5	518.0
Endrin	1	8.69	8.67	8.81	0.83	
	2	9.54	9.50	9.64	2.3	170.5

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M35

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542017 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	9.00	8.99	9.13	1.0	
	2	9.89	9.81	9.95	1.2	17.4
4,4'-DDD	1	8.81	8.76	8.90	2.3	
	2	9.73	9.64	9.78	0.54	329.2
4,4'-DDT	1	9.24	9.17	9.31	0.31	
	2	10.17	10.09	10.23	0.30	2.8
Endrin ketone	1	10.61	10.59	10.73	1.4	
	2	11.38	11.29	11.43	0.33	322.8
Endrin aldehyde	1	9.74	9.61	9.75	0.47	
	2	10.35	10.28	10.42	2.2	376.3
gamma-Chlordane	1	7.65	7.60	7.74	0.24	
	2	8.39	8.32	8.46	1.1	331.4
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M37

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542018 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	5.13	5.07	5.17	0.23	
	2	5.57	5.55	5.65	0.44	95.6
beta-BHC	1	5.64	5.62	5.72	0.94	
	2	6.20	6.19	6.29	0.47	102.8
delta-BHC	1	5.95	5.87	5.97	0.21	
	2	6.64	6.63	6.73	0.58	169.0
gamma-BHC (Lindane)	1	5.52	5.51	5.61	0.11	
	2	6.10	6.08	6.18	1.4	999.9
Aldrin	1	6.63	6.58	6.68	0.25	
	2	7.22	7.22	7.32	0.41	62.4
4,4'-DDE	1	7.98	7.90	8.04	0.24	
	2	8.84	8.78	8.92	1.4	485.7
Endrin	1	8.68	8.67	8.81	1.3	
	2	9.54	9.50	9.64	2.9	131.1
Endosulfan II	1	9.00	8.99	9.13	0.85	
	2	9.89	9.81	9.95	3.6	330.0

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M37

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542018 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	8.81	8.76	8.90	7.5	
	2	9.68	9.64	9.78	0.80	831.9
Endosulfan sulfate	1	10.36	10.22	10.36	4.6	
	2	10.64	10.64	10.78	18.	282.5
4,4'-DDT	1	9.26	9.17	9.31	1.1	
	2	10.18	10.09	10.23	1.3	22.2
Endrin ketone	1	10.62	10.59	10.73	3.5	
	2	11.37	11.29	11.43	1.4	144.9
Endrin aldehyde	1	9.74	9.61	9.75	0.23	
	2	10.35	10.28	10.42	1.5	578.4
gamma-Chlordane	1	7.66	7.60	7.74	0.54	
	2	8.40	8.32	8.46	1.8	238.9
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M38

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542019 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	5.13	5.07	5.17	2.5	
	2	5.58	5.55	5.65	0.36	587.0
beta-BHC	1	5.65	5.62	5.72	0.67	
	2	6.26	6.19	6.29	0.087	669.9
delta-BHC	1	5.95	5.87	5.97	0.18	
	2	6.64	6.63	6.73	1.0	486.3
gamma-BHC (Lindane)	1	5.59	5.51	5.61	0.67	
	2	6.15	6.08	6.18	1.3	95.2
Heptachlor	1	6.23	6.16	6.26	0.69	
	2	6.79	6.73	6.83	0.19	259.6
Dieldrin	1	8.38	8.33	8.47	0.59	
	2	9.08	9.04	9.18	1.2	97.4
4,4'-DDE	1	7.92	7.90	8.04	0.10	
	2	8.88	8.78	8.92	1.7	999.9
Endosulfan II	1	9.01	8.99	9.13	1.8	
	2	9.89	9.81	9.95	0.53	229.4

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M38

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542019 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	10.26	10.22	10.36	0.087	
	2	10.64	10.64	10.78	1.7	999.9
4,4'-DDT	1	9.23	9.17	9.31	0.23	
	2	10.18	10.09	10.23	0.59	157.8
Endrin ketone	1	10.69	10.59	10.73	0.80	
	2	11.33	11.29	11.43	0.15	447.9
Endrin aldehyde	1	9.61	9.61	9.75	0.73	
	2	10.35	10.28	10.42	0.85	17.0
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M39

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542020 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	5.13	5.07	5.17	0.87	
	2	5.57	5.55	5.65	0.33	166.2
delta-BHC	1	5.95	5.87	5.97	0.12	
	2	6.64	6.63	6.73	0.61	394.9
gamma-BHC (Lindane)	1	5.59	5.51	5.61	0.76	
	2	6.15	6.08	6.18	1.8	138.1
Heptachlor	1	6.23	6.16	6.26	1.1	
	2	6.74	6.73	6.83	0.28	286.5
Dieldrin	1	8.37	8.33	8.47	0.19	
	2	9.08	9.04	9.18	1.6	723.0
Endosulfan II	1	9.01	8.99	9.13	1.4	
	2	9.89	9.81	9.95	1.3	2.7
4,4'-DDD	1	8.82	8.76	8.90	1.9	
	2	9.68	9.64	9.78	1.2	61.4
Endosulfan sulfate	1	10.23	10.22	10.36	0.36	
	2	10.68	10.64	10.78	2.7	644.0

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M39

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542020 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	9.24	9.17	9.31	0.44	
	2	10.18	10.09	10.23	0.47	6.9
Endrin ketone	1	10.69	10.59	10.73	0.40	
	2	11.35	11.29	11.43	0.20	96.1
Endrin aldehyde	1	9.61	9.61	9.75	0.66	
	2	10.28	10.28	10.42	3.9	488.4
gamma-Chlordane	1	7.66	7.60	7.74	0.31	
	2	8.40	8.32	8.46	1.2	290.5
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M40

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542021 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	5.14	5.07	5.17	0.048	
	2	5.57	5.55	5.65	0.39	713.6
delta-BHC	1	5.95	5.87	5.97	0.30	
	2	6.65	6.63	6.73	1.2	289.3
gamma-BHC (Lindane)	1	5.52	5.51	5.61	0.18	
	2	6.15	6.08	6.18	1.7	879.0
Heptachlor	1	6.23	6.16	6.26	1.5	
	2	6.79	6.73	6.83	0.27	465.8
Aldrin	1	6.63	6.58	6.68	0.97	
	2	7.22	7.22	7.32	0.48	104.5
4,4'-DDE	1	7.98	7.90	8.04	3.1	
	2	8.84	8.78	8.92	2.2	39.3
Endrin	1	8.68	8.67	8.81	0.95	
	2	9.55	9.50	9.64	3.1	226.0
Endosulfan II	1	9.01	8.99	9.13	0.95	
	2	9.89	9.81	9.95	2.5	165.4

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M40

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542021 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	8.82	8.76	8.90	4.3	
	2	9.68	9.64	9.78	0.61	602.1
4,4'-DDT	1	9.26	9.17	9.31	0.60	
	2	10.19	10.09	10.23	0.98	64.1
Endrin ketone	1	10.61	10.59	10.73	5.6	
	2	11.38	11.29	11.43	1.2	366.6
Endrin aldehyde	1	9.62	9.61	9.75	0.94	
	2	10.35	10.28	10.42	1.0	9.8
gamma-Chlordane	1	7.66	7.60	7.74	0.33	
	2	8.40	8.32	8.46	0.90	175.3
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M41

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542022 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	5.14	5.07	5.17	0.15	
	2	5.57	5.55	5.65	0.092	62.7
beta-BHC	1	5.65	5.62	5.72	0.28	
	2	6.21	6.19	6.29	0.65	127.4
delta-BHC	1	5.89	5.87	5.97	0.16	
	2	6.65	6.63	6.73	0.49	200.3
gamma-BHC (Lindane)	1	5.60	5.51	5.61	0.086	
	2	6.15	6.08	6.18	0.73	752.1
Heptachlor	1	6.24	6.16	6.26	0.50	
	2	6.73	6.73	6.83	0.15	239.0
Endrin	1	8.69	8.67	8.81	0.42	
	2	9.55	9.50	9.64	1.4	227.6
Endosulfan II	1	9.01	8.99	9.13	0.21	
	2	9.89	9.81	9.95	0.76	259.3
4,4'-DDD	1	8.82	8.76	8.90	0.87	
	2	9.75	9.64	9.78	0.37	132.9

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9M41

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542022 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	9.27	9.17	9.31	0.19	
	2	10.16	10.09	10.23	0.60	215.9
Endrin ketone	1	10.59	10.59	10.73	4.3	
	2	11.38	11.29	11.43	0.095	999.9
Endrin aldehyde	1	9.62	9.61	9.75	0.72	
	2	10.35	10.28	10.42	0.79	10.3
gamma-Chlordane	1	7.66	7.60	7.74	0.14	
	2	8.40	8.32	8.46	0.33	127.6
	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.: F9M21

Lab Sample ID: 450194 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	5.15	5.07	5.17	0.056	
	2	5.56	5.55	5.65	0.057	1.0
delta-BHC	1	5.92	5.87	5.97	0.024	
	2	6.65	6.63	6.73	0.16	559.3
Heptachlor epoxide	1	7.47	7.42	7.56	0.050	
	2	8.13	8.05	8.19	0.10	106.1
Dieldrin	1	8.36	8.33	8.47	0.055	
	2	9.07	9.04	9.18	0.10	86.0
Methoxychlor	1	9.94	9.87	10.01	0.090	
	2	10.96	10.95	11.09	0.58	544.4
Endrin aldehyde	1	9.61	9.61	9.75	0.19	
	2	10.35	10.28	10.42	0.30	53.2
	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.: F9M21

Lab Sample ID: 450195 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	5.93	5.87	5.97	0.044	
	2	6.65	6.63	6.73	0.19	332.1
gamma-BHC (Lindane)	1	5.56	5.51	5.61	0.91	
	2	6.13	6.08	6.18	1.2	26.9
Heptachlor	1	6.20	6.16	6.26	0.087	
	2	6.81	6.73	6.83	0.026	231.6
Heptachlor epoxide	1	7.50	7.42	7.56	1.1	
	2	8.12	8.05	8.19	1.2	14.9
Dieldrin	1	8.41	8.33	8.47	2.3	
	2	9.12	9.04	9.18	2.5	12.0
4,4'-DDE	1	7.98	7.90	8.04	2.4	
	2	8.85	8.78	8.92	2.5	6.6
Endrin	1	8.74	8.67	8.81	2.3	
	2	9.57	9.50	9.64	2.5	8.0
Endosulfan sulfate	1	10.30	10.22	10.36	2.1	
	2	10.71	10.64	10.78	2.2	6.3

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.: F9M21

Lab Sample ID: 450195 Date(s) Analyzed: 06/19/2015 06/19/2015

Instrument ID (1): GCE31 Instrument ID (2): GCE31

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	9.94	9.87	10.01	0.097	
	2	10.96	10.95	11.09	0.60	520.0
Endrin ketone	1	10.64	10.59	10.73	0.18	
	2	11.38	11.29	11.43	0.14	27.2
Endrin aldehyde	1	9.61	9.61	9.75	0.16	
	2	10.39	10.28	10.42	0.69	324.5
gamma-Chlordane	1	7.67	7.60	7.74	1.2	
	2	8.40	8.32	8.46	1.2	6.5
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:24:53
Operator	: sagers	Sample Name	: RESCA1
Sample Number	: 004	Study	: 28313
AutoSampler	: HP7673A	Rack/Vial	: 0/4
Instrument Name	: GCE31	Channel	: A
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/19/2015 13:04:12	Cycle	: 3

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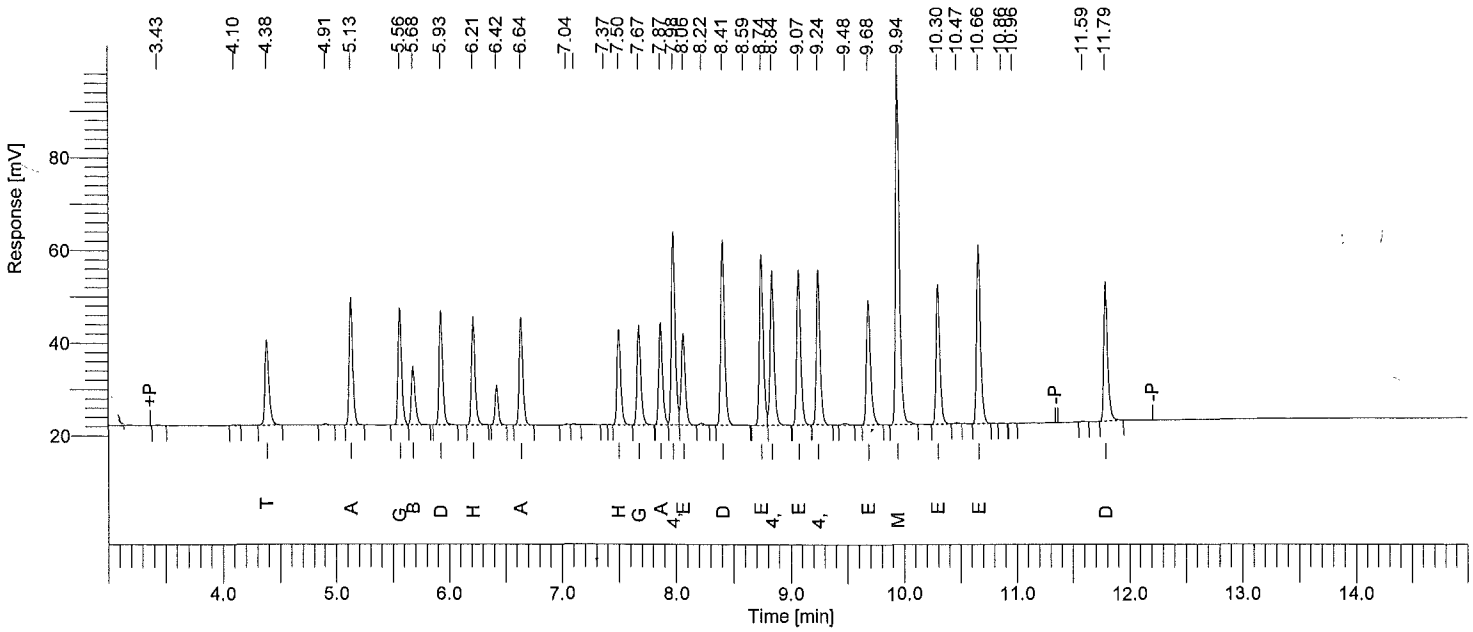
Proc Method : \\Alsltws012\TCCS\sagers\GCE31\31150619\31_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619A_004.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE31\31150619\31_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619A_004.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE31\31150618\31_RPT_2UL\31_som_std_a.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619_SOM012_PEST_F9M21_A.seq



Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.38	Tetrachloro-m-xylene	45217	0.0205634
5.13	alpha-BHC	59392	0.0213855
5.56	gamma-BHC	55502	0.0213915
5.68	beta-BHC	30098	0.0213373
5.93	delta-BHC	53767	0.0214492
6.21	Heptachlor	50863	0.0210039
6.64	Aldrin	51074	0.0212115
7.50	Heptachlor epoxide	46469	0.0210481
7.67	gamma-Chlordane	50108	0.0209214
7.87	alpha-Chlordane	51206	0.0207304
7.98	4,4'-DDE	95957	0.0422531
8.06	Endosulfan I	47510	0.0207947
8.41	Dieldrin	93930	0.0420821
8.74	Endrin	86724	0.0426902
8.84	4,4'-DDD	79424	0.0420535
9.07	Endosulfan II	80509	0.0415654
9.24	4,4'-DDT	76802	0.0414661
9.68	Endrin aldehyde	68353	0.0415361
9.94	Methoxychlor	180186	0.2031598
10.30	Endosulfan sulfate	70368	0.0413072
10.66	Endrin ketone	90992	0.0409450
11.79	Decachlorobiphenyl	69663	0.0410170

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:24:55
Operator	: sagers	Sample Name	: PEMA1
Sample Number	: 005	Study	: 28317
AutoSampler	: HP7673A	Rack/Vial	: 0/5
Instrument Name	: GCE31	Channel	: A
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 13:24:34	Dilution Factor	: 1.00
		Cycle	: 4

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Calib Method : \\Alsltws012\TCCS\sagers\GCE31\31150619\31_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619A_005.rst
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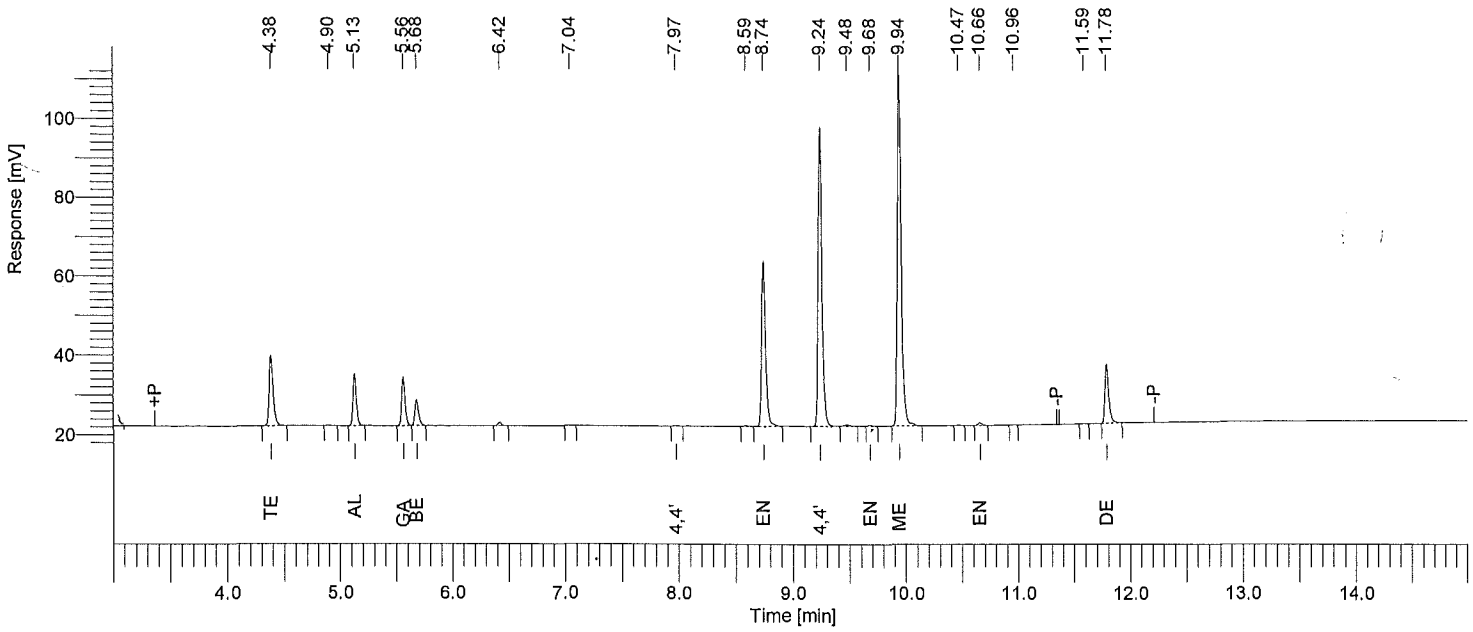
Sequence File : \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619_SOM012_PEST_F9M21_A.seq



Instrument ID: GC31A 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 %
4.38	Tetrachloro-m-xylene	43050	0.0195783	0.0195783	0.02000	97.9
5.13	alpha-BHC	26751	0.0096323	0.0096323	0.01000	96.3
5.56	gamma-BHC	25750	0.0099245	0.0099245	0.01000	99.2
5.68	beta-BHC	14578	0.0103350	0.0103350	0.01000	103.4
5.92	delta-BHC	0	0.0000000	0.0000000	----------	------
6.21	Heptachlor	0	0.0000000	0.0000000	----------	------
6.63	Aldrin	0	0.0000000	0.0000000	----------	------
7.49	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
7.67	gamma-Chlordane	0	0.0000000	0.0000000	----------	------
7.86	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
7.97	4,4'-DDE	333	0.0001467	0.0001467	0.10000	0.1
8.06	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.40	Dieldrin	0	0.0000000	0.0000000	----------	------
8.74	Endrin	101006	0.0497204	0.0497204	0.05000	99.4
8.83	4,4'-DDD	0	0.0000000	0.0000000	----------	------
9.06	Endosulfan II	0	0.0000000	0.0000000	----------	------
9.24	4,4'-DDT	178357	0.0962965	0.0962965	0.10000	96.3
9.68	Endrin aldehyde	640	0.0003890	0.0003890	0.05000	0.8
9.94	Methoxychlor	211861	0.2388731	0.2388731	0.25000	95.5
10.29	Endosulfan sulfate	0	0.0000000	0.0000000	----------	------
10.66	Endrin ketone	1407	0.0006330	0.0006330	0.05000	1.3
11.78	Decachlorobiphenyl	34494	0.0203102	0.0203102	0.02000	101.6
			0.4558391			791.8

06/20/2015 09:24:55 Result: \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619A_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	333	0.0001467	0.0001467	0.10000	0.1
8.83	4,4'-DDD	0	0.0000000	0.0000000	----------	------
			0.0001467			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 %
9.68	Endrin aldehyde	640	0.0003890	0.0003890	0.05000	0.8
10.66	Endrin ketone	1407	0.0006330	0.0006330	0.05000	1.3
			0.0010221			2.0

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:24:57
Operator	: sagers	Sample Name	: TOXAPH1A1
Sample Number	: 006	Study	: 28306
AutoSampler	: HP7673A	Rack/Vial	: 0/6
Instrument Name	: GCE31	Channel	: A
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 13:45:08	Dilution Factor	: 1.00
		Cycle	: 5

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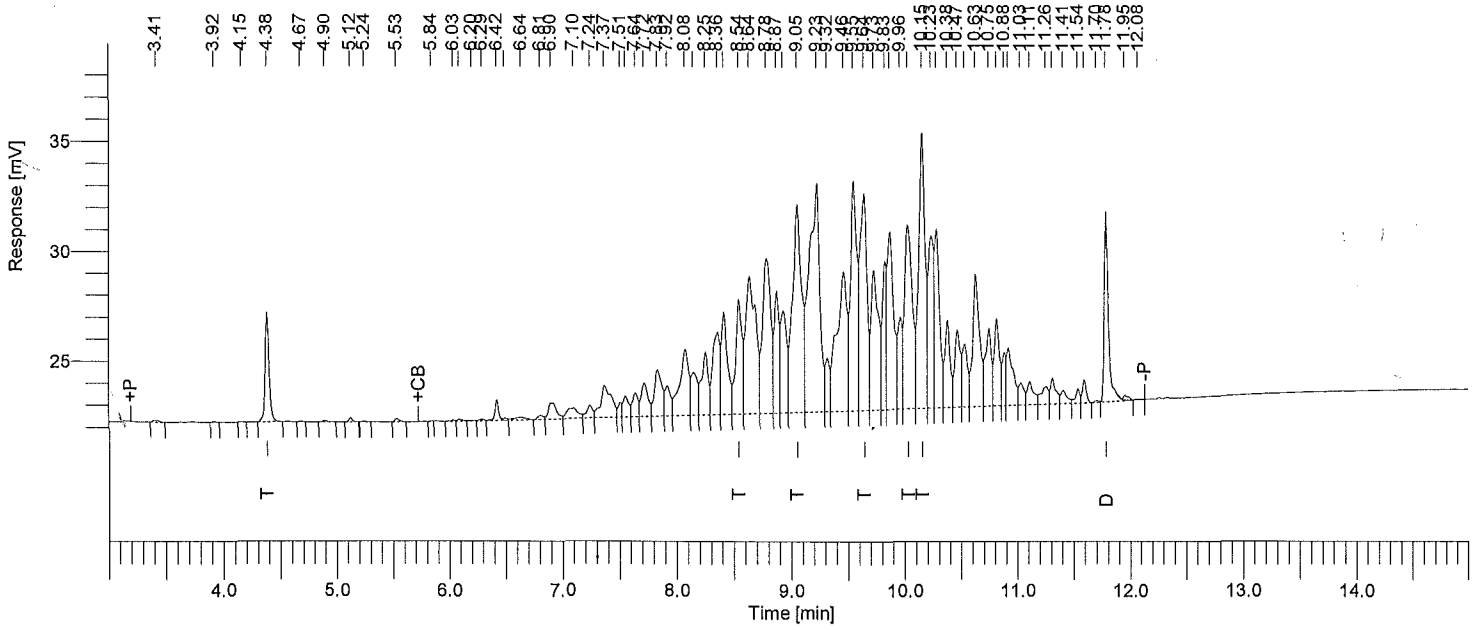

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.38	Tetrachloro-m-xylene	12191	0.0054032
8.54	Toxaphene-1	20016	0.4842635
9.05	Toxaphene-2	52569	0.5067487
9.64	Toxaphene-3	43879	0.4971130
10.03	Toxaphene-4	39805	0.4801039
10.15	Toxaphene-5	49332	0.5075243
11.78	Decachlorobiphenyl	22269	0.0108544

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:25:15
Operator	: sagers	Sample Name	: INDC4A1
Sample Number	: 014	Study	: 28314
AutoSampler	: HP7673A	Rack/Vial	: 0/14
Instrument Name	: GCE31	Channel	: A
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 16:28:18	Dilution Factor	: 1.00
		Cycle	: 13

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Proc Method : \\Alsltws012\TCCS\sagers\GCE31\31150619\31_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619A_014.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE31\31150619\31_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619A_014.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE31\31150618\31_RPT_2UL\31_som_std_a.rpt
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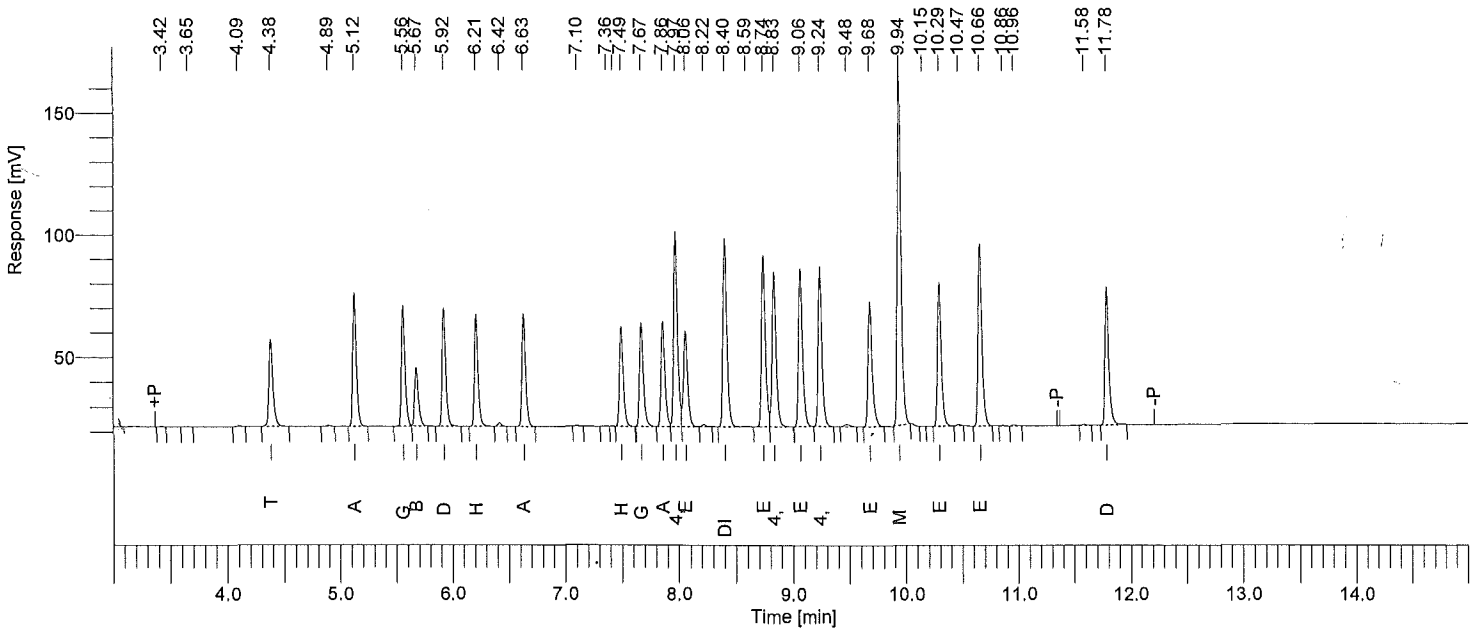

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.38	Tetrachloro-m-xylene	87875	0.0399635
5.12	alpha-BHC	119209	0.0429240
5.56	gamma-BHC	108937	0.0419862
5.67	beta-BHC	55685	0.0394772
5.92	delta-BHC	107115	0.0427312
6.21	Heptachlor	100724	0.0415936
6.63	Aldrin	102599	0.0426102
7.49	Heptachlor epoxide	92669	0.0419739
7.67	gamma-Chlordane	98987	0.0413296
7.86	alpha-Chlordane	100560	0.0407114
7.97	4,4'-DDE	184957	0.0814433
8.06	Endosulfan I	96574	0.0422691
8.40	Dieldrin	184526	0.0826701
8.74	Endrin	166408	0.0819148
8.83	4,4'-DDD	153633	0.0813454
9.06	Endosulfan II	158348	0.0817520
9.24	4,4'-DDT	150233	0.0811125
9.68	Endrin aldehyde	130545	0.0793282
9.94	Methoxychlor	333428	0.3759409
10.29	Endosulfan sulfate	138678	0.0814063
10.66	Endrin ketone	175920	0.0791613
11.78	Decachlorobiphenyl	128631	0.0757372

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:24:59
Operator	: sagers	Sample Name	: TOXAPH2A1
Sample Number	: 007	Study	: 28307
AutoSampler	: HP7673A	Rack/Vial	: 0/7
Instrument Name	: GCE31	Channel	: A
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 14:05:30	Dilution Factor	: 1.00
		Cycle	: 6

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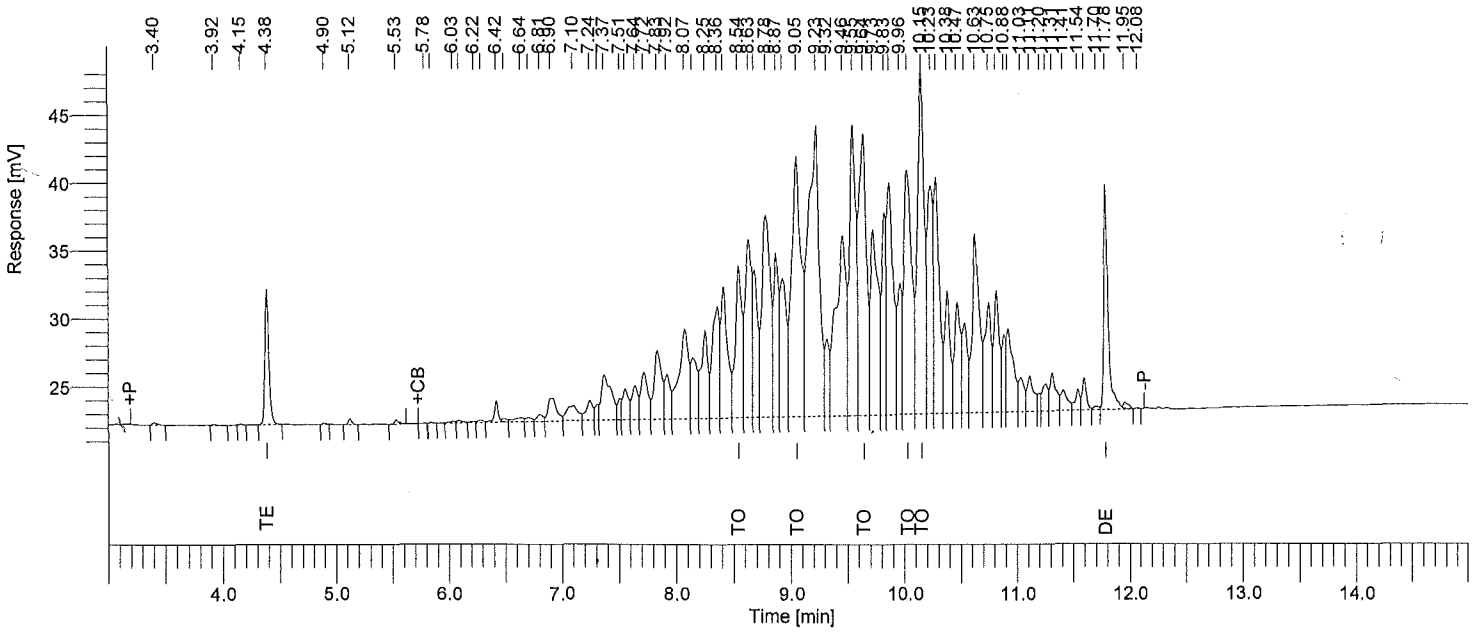
Report Format File: \\Alsltws012\TCCS\sagers\GCE31\31150618\31_RPT_2UL\31_som_std_a.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619_SOM012_PEST_F9M21_A.seq



Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.38	Tetrachloro-m-xylene	24064	0.0106657
8.54	Toxaphene-1	43928	1.0628043
9.05	Toxaphene-2	111577	1.0755699
9.64	Toxaphene-3	94067	1.0656972
10.03	Toxaphene-4	87880	1.0599416
10.15	Toxaphene-5	103702	1.0668660
11.78	Decachlorobiphenyl	43496	0.0212013

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:25:01
Operator	: sagers	Sample Name	: TOXAPH3A1
Sample Number	: 008	Study	: 28308
AutoSampler	: HP7673A	Rack/Vial	: 0/8
Instrument Name	: GCE31	Channel	: A
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 14:26:02	Dilution Factor	: 1.00
		Cycle	: 7

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Proc Method : \\Alsltws012\TCCS\sagers\GCE31\31150619\31_som_tox_a.mth from \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619A_008.rst
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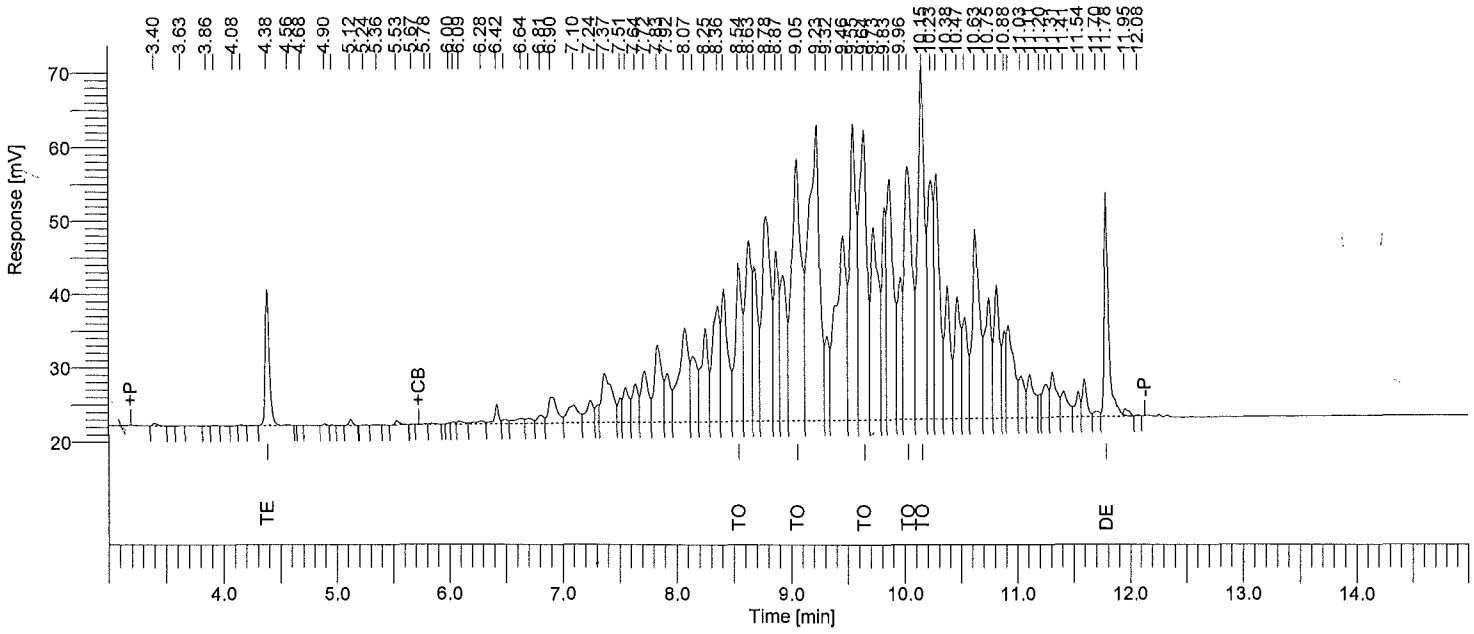

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.38	Tetrachloro-m-xylene	45771	0.0202872	0.0202872	0.0200000	101.4
8.54	Toxaphene-1	85268	2.0630137	2.0630137	2.0000000	103.2
9.05	Toxaphene-2	211546	2.0392439	2.0392439	2.0000000	102.0
9.64	Toxaphene-3	180557	2.0455481	2.0455481	2.0000000	102.3
10.03	Toxaphene-4	170124	2.0519168	2.0519168	2.0000000	102.6
10.15	Toxaphene-5	197434	2.0311745	2.0311745	2.0000000	101.6
11.78	Decachlorobiphenyl	80913	0.0394391	0.0394391	0.0400000	98.6

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:25:03
Operator	: sagers	Sample Name	: TOXAPH4A1
Sample Number	: 009	Study	: 28309
AutoSampler	: HP7673A	Rack/Vial	: 0/9
Instrument Name	: GCE31	Channel	: A
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/19/2015 14:46:24	Cycle	: 8

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Proc Method : \\Alsltws012\TCCS\sagers\GCE31\31150619\31_som_tox_a.mth from \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619A_009.rst
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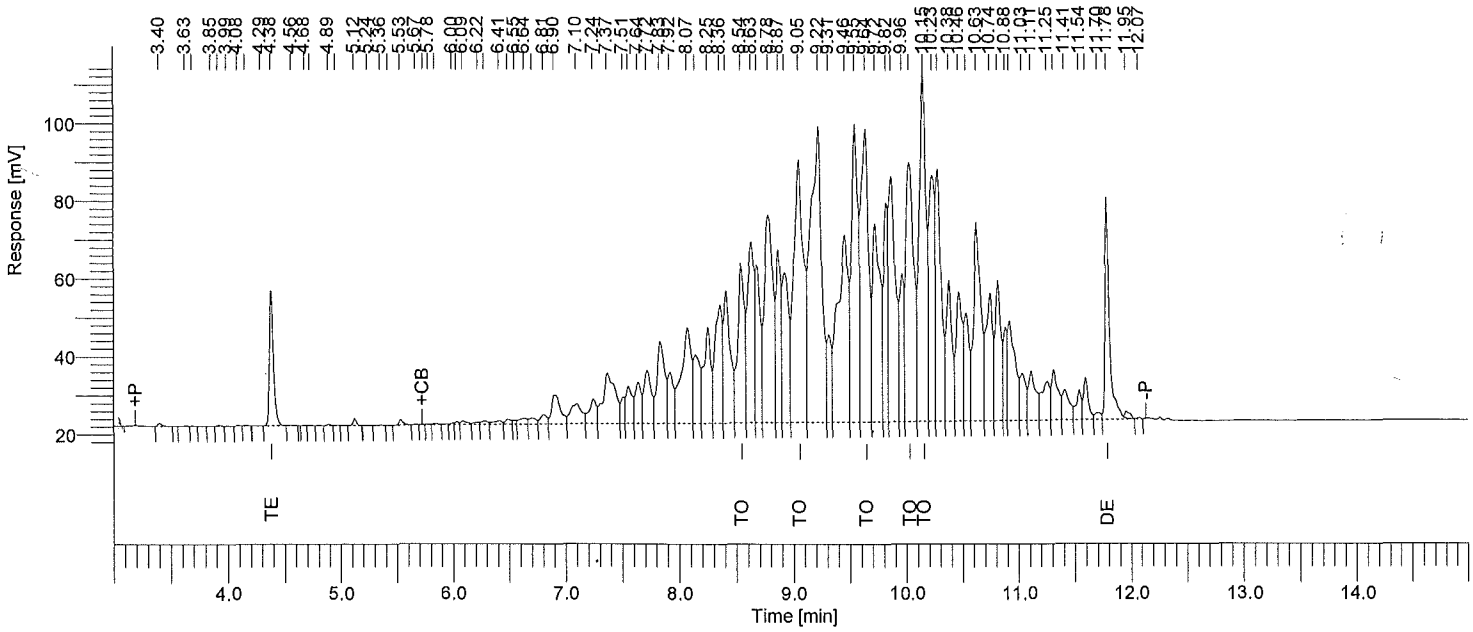
Sequence File : \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619_SOM012_PEST_F9M21_A.seq



Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.38	Tetrachloro-m-xylene	86604	0.0383858
8.54	Toxaphene-1	166476	4.0277833
9.05	Toxaphene-2	407216	3.9254541
9.64	Toxaphene-3	348869	3.9523593
10.03	Toxaphene-4	332696	4.0127437
10.15	Toxaphene-5	379309	3.9022726
11.78	Decachlorobiphenyl	155950	0.0760139

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:25:05
Operator	: sagers	Sample Name	: TOXAPH5A1
Sample Number	: 010	Study	: 28310
AutoSampler	: HP7673A	Rack/Vial	: 0/10
Instrument Name	: GCE31	Channel	: A
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 15:06:44	Dilution Factor	: 1.00
		Cycle	: 9

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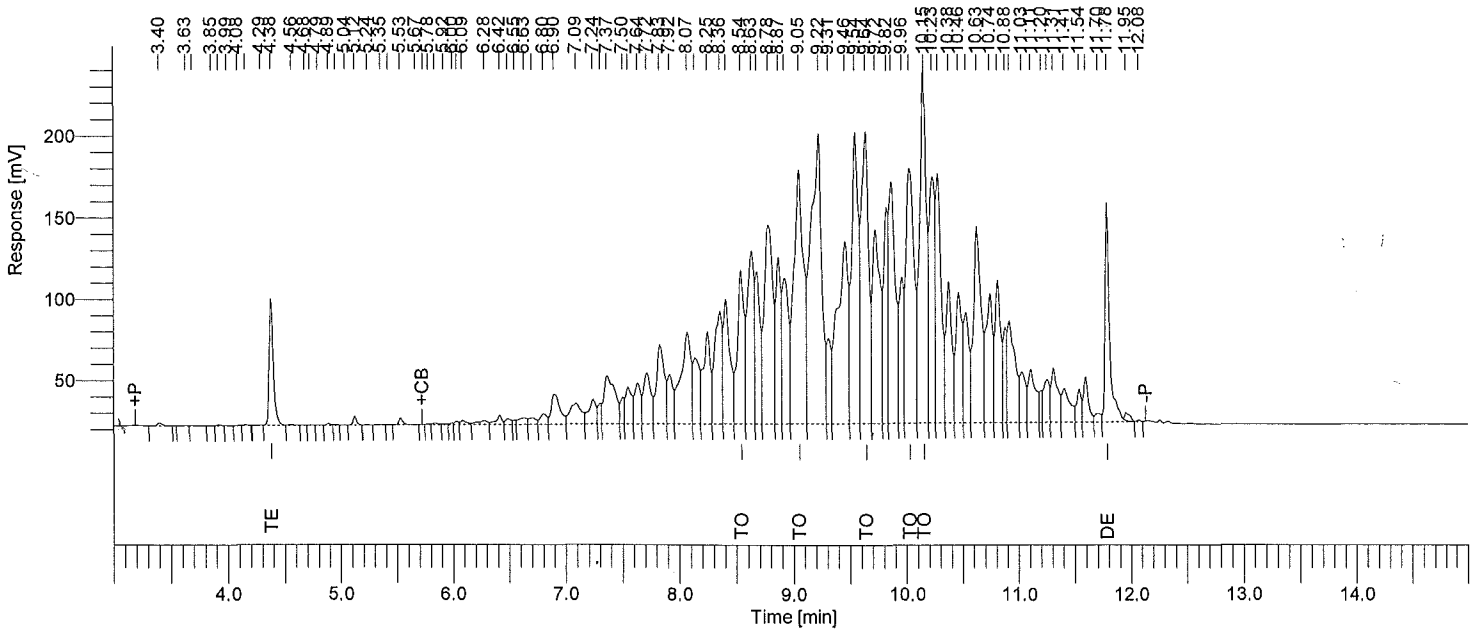
Calib Method : \\Alsltws012\TCCS\sagers\GCE31\31150619\31_som_tox_a.mth from \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619A_010.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE31\31150618\31_RPT_2UL\31_som_std_a.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619_SOM012_PEST_F9M21_A.seq



Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.38	Tetrachloro-m-xylene	198266	0.0878777
8.54	Toxaphene-1	384477	9.3021604
9.05	Toxaphene-2	943954	9.0994728
9.64	Toxaphene-3	820202	9.2921289
10.03	Toxaphene-4	788230	9.5070629
10.15	Toxaphene-5	900995	9.2693011
11.78	Decachlorobiphenyl	376816	0.1836694

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:25:08
Operator	: sagers	Sample Name	: INDC1A1
Sample Number	: 011	Study	: 28311
AutoSampler	: HP7673A	Rack/Vial	: 0/11
Instrument Name	: GCE31	Channel	: A
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 15:27:04	Dilution Factor	: 1.00
		Cycle	: 10

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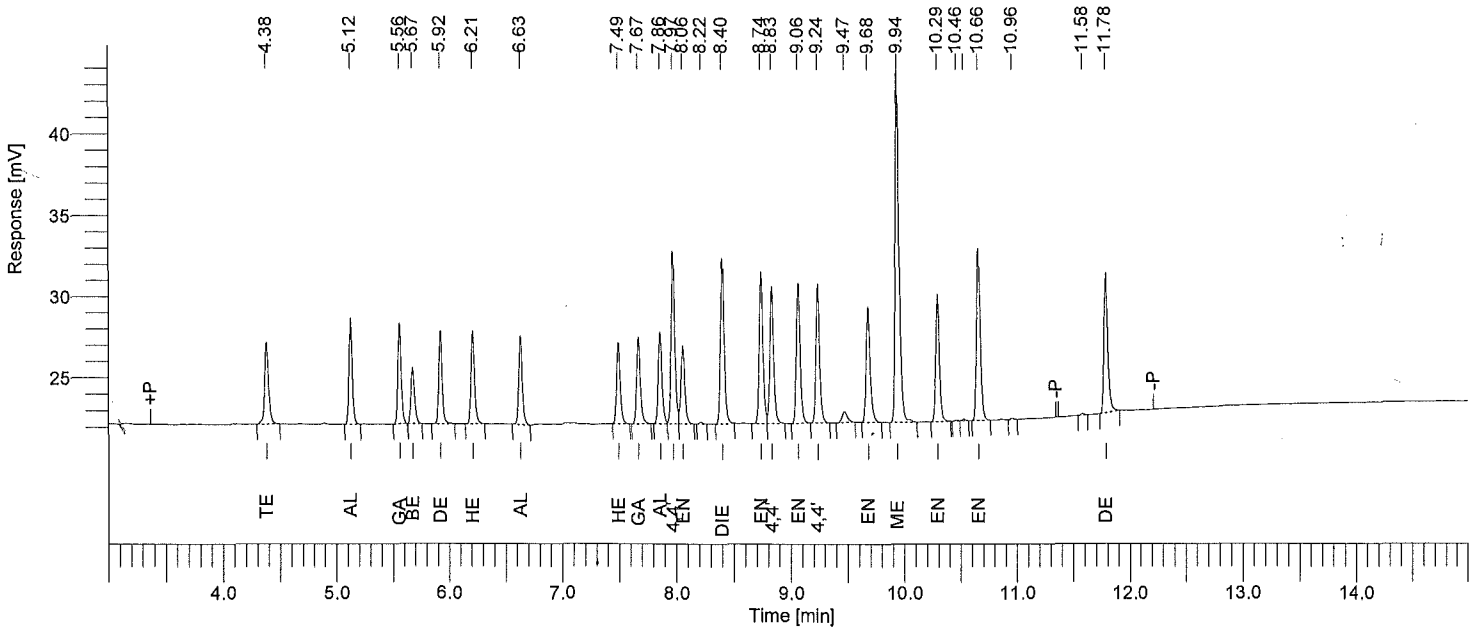

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.38	Tetrachloro-m-xylene	12290	0.0055892
5.12	alpha-BHC	12970	0.0046702
5.56	gamma-BHC	12653	0.0048769
5.67	beta-BHC	7692	0.0054528
5.92	delta-BHC	11739	0.0046829
6.21	Heptachlor	12178	0.0050289
6.63	Aldrin	11548	0.0047959
7.49	Heptachlor epoxide	10932	0.0049515
7.67	gamma-Chlordane	12031	0.0050230
7.86	alpha-Chlordane	12744	0.0051595
7.97	4,4'-DDE	22968	0.0101136
8.06	Endosulfan I	11089	0.0048536
8.40	Dieldrin	22471	0.0100673
8.74	Endrin	21071	0.0103723
8.83	4,4'-DDD	19098	0.0101119
9.06	Endosulfan II	20061	0.0103569
9.24	4,4'-DDT	19167	0.0103487
9.68	Endrin aldehyde	17637	0.0107177
9.94	Methoxychlor	51431	0.0579887
10.29	Endosulfan sulfate	17598	0.0103302
10.66	Endrin ketone	24318	0.0109426
11.78	Decachlorobiphenyl	20072	0.0118182

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:25:10
Operator	: sagers	Sample Name	: INDC2A1
Sample Number	: 012	Study	: 28312
AutoSampler	: HP7673A	Rack/Vial	: 0/12
Instrument Name	: GCE31	Channel	: A
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 15:47:40	Dilution Factor	: 1.00
		Cycle	: 11

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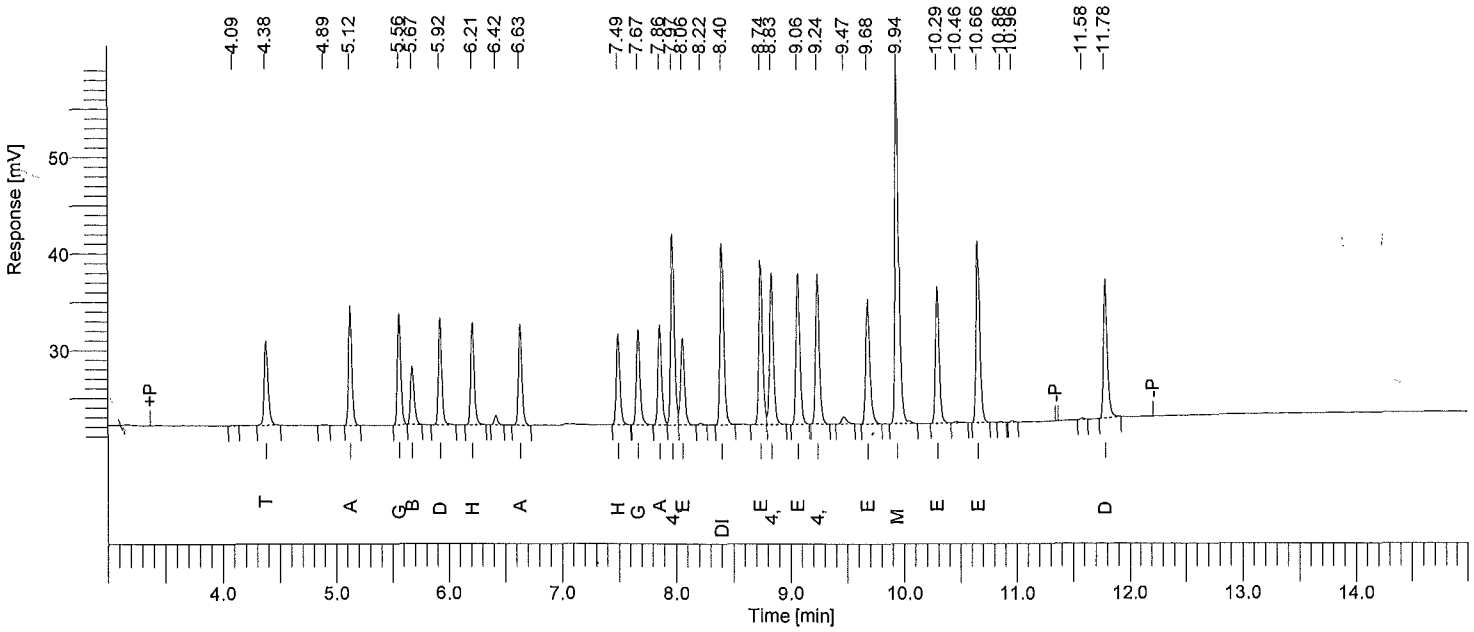

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.38	Tetrachloro-m-xylene	21441	0.0097507
5.12	alpha-BHC	25675	0.0092449
5.56	gamma-BHC	24395	0.0094024
5.67	beta-BHC	13825	0.0098008
5.92	delta-BHC	23352	0.0093159
6.21	Heptachlor	22882	0.0094490
6.63	Aldrin	22307	0.0092642
7.49	Heptachlor epoxide	20790	0.0094169
7.67	gamma-Chlordane	22750	0.0094988
7.86	alpha-Chlordane	23783	0.0096284
7.97	4,4'-DDE	44015	0.0193815
8.06	Endosulfan I	21158	0.0092605
8.40	Dieldrin	42743	0.0191493
8.74	Endrin	39394	0.0193916
8.83	4,4'-DDD	36444	0.0192962
9.06	Endosulfan II	37035	0.0191204
9.24	4,4'-DDT	35487	0.0191596
9.68	Endrin aldehyde	32682	0.0198596
9.94	Methoxychlor	87494	0.0986495
10.29	Endosulfan sulfate	32940	0.0193364
10.66	Endrin ketone	43865	0.0197386
11.78	Decachlorobiphenyl	33887	0.0199523

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:25:12
Operator	: sagers	Sample Name	: INDC3A1
Sample Number	: 013	Study	: 28313
AutoSampler	: HP7673A	Rack/Vial	: 0/13
Instrument Name	: GCE31	Channel	: A
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 16:08:00	Dilution Factor	: 1.00
		Cycle	: 12

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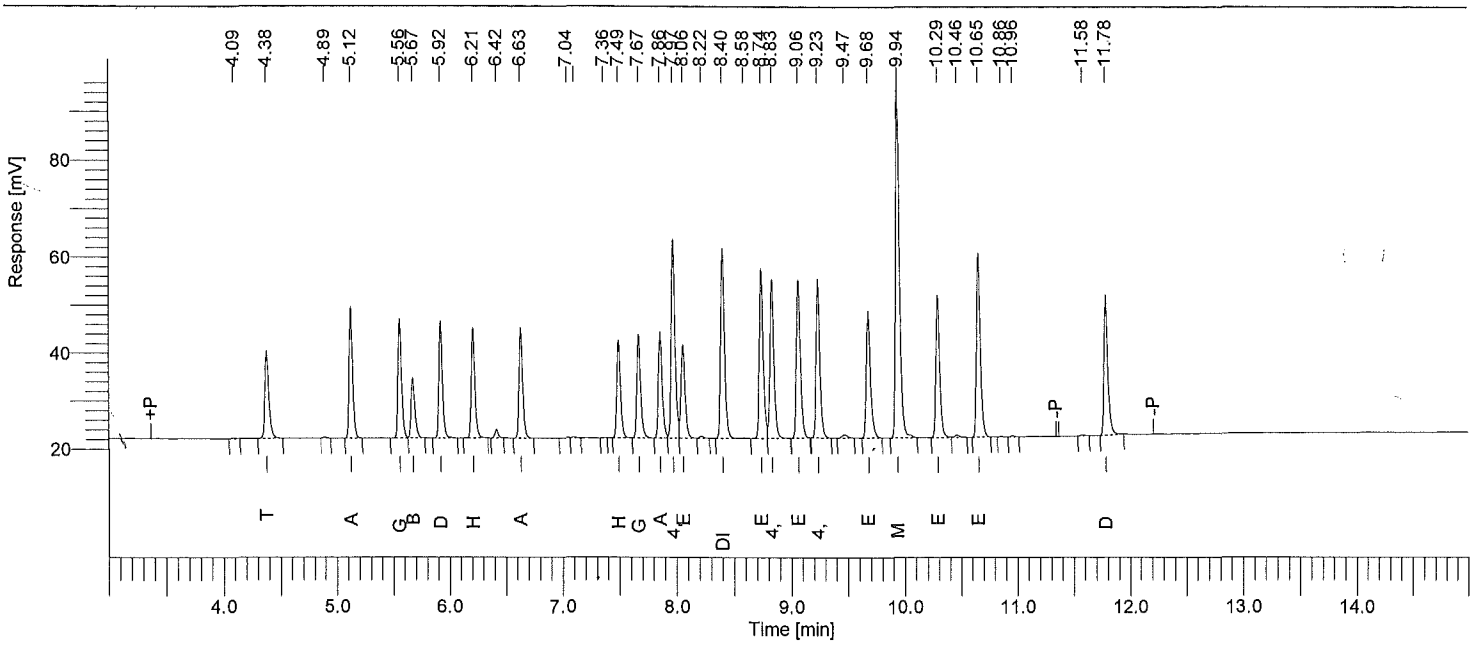

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.38	Tetrachloro-m-xylene	44657	0.0203091	0.0203091	0.0200000	101.5
5.12	alpha-BHC	58556	0.0210845	0.0210845	0.0200000	105.4
5.56	gamma-BHC	54661	0.0210671	0.0210671	0.0200000	105.3
5.67	beta-BHC	29235	0.0207254	0.0207254	0.0200000	103.6
5.92	delta-BHC	53190	0.0212188	0.0212188	0.0200000	106.1
6.21	Heptachlor	50305	0.0207734	0.0207734	0.0200000	103.9
6.63	Aldrin	50582	0.0210070	0.0210070	0.0200000	105.0
7.49	Heptachlor epoxide	45905	0.0207925	0.0207925	0.0200000	104.0
7.67	gamma-Chlordane	50048	0.0208962	0.0208962	0.0200000	104.5
7.86	alpha-Chlordane	51554	0.0208714	0.0208714	0.0200000	104.4
7.97	4,4'-DDE	95522	0.0420619	0.0420619	0.0400000	105.2
8.06	Endosulfan I	47393	0.0207432	0.0207432	0.0200000	103.7
8.40	Dieldrin	92944	0.0416402	0.0416402	0.0400000	104.1
8.74	Endrin	83854	0.0412775	0.0412775	0.0400000	103.2
8.83	4,4'-DDD	79146	0.0419064	0.0419064	0.0400000	104.8
9.06	Endosulfan II	80189	0.0414002	0.0414002	0.0400000	103.5
9.23	4,4'-DDT	76224	0.0411541	0.0411541	0.0400000	102.9
9.68	Endrin aldehyde	67797	0.0411983	0.0411983	0.0400000	103.0
9.94	Methoxychlor	174968	0.1972764	0.1972764	0.2000000	98.6
10.29	Endosulfan sulfate	69881	0.0410214	0.0410214	0.0400000	102.6
10.65	Endrin ketone	90209	0.0405925	0.0405925	0.0400000	101.5
11.78	Decachlorobiphenyl	67804	0.0399227	0.0399227	0.0400000	99.8

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:25:17
Operator	: sagers	Sample Name	: INDC5A1
Sample Number	: 015	Study	: 28315
AutoSampler	: HP7673A	Rack/Vial	: 0/15
Instrument Name	: GCE31	Channel	: A
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 16:48:41	Dilution Factor	: 1.00
		Cycle	: 14

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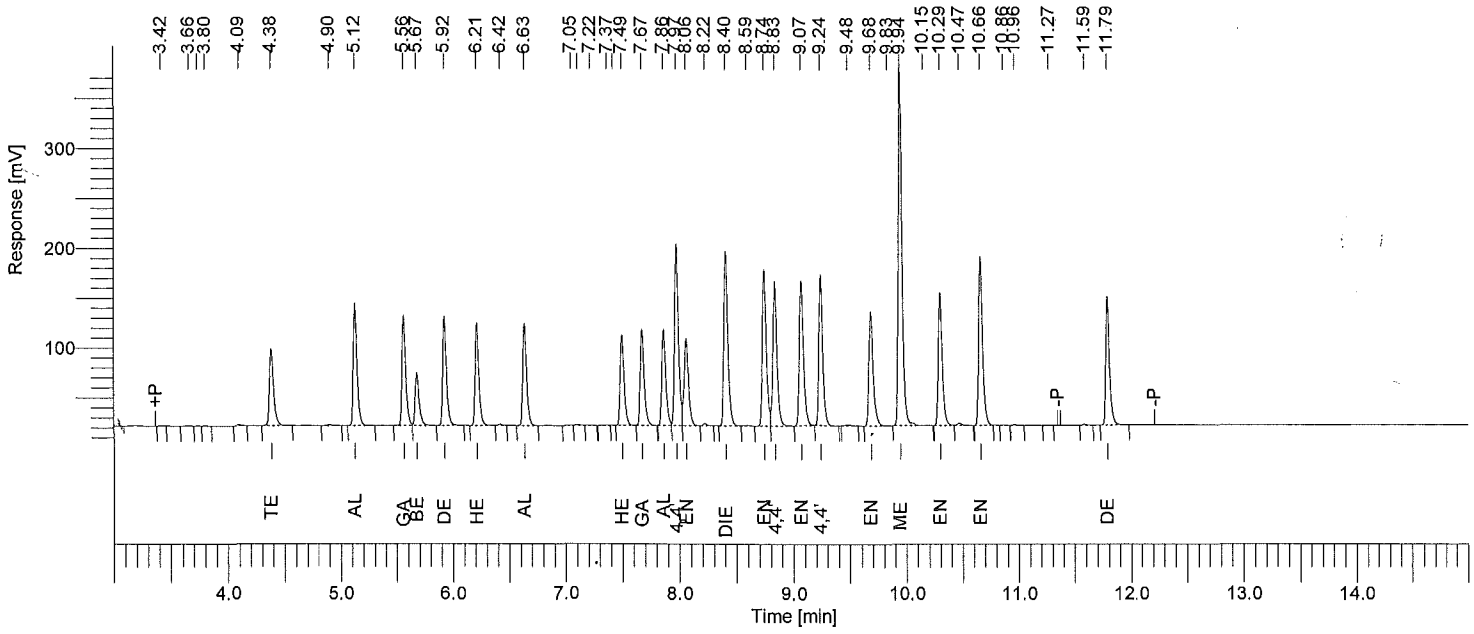

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.38	Tetrachloro-m-xylene	196262	0.0892554
5.12	alpha-BHC	281650	0.1014147
5.56	gamma-BHC	254628	0.0981379
5.67	beta-BHC	127818	0.0906149
5.92	delta-BHC	251324	0.1002601
6.21	Heptachlor	235091	0.0970804
6.63	Aldrin	240498	0.0998803
7.49	Heptachlor epoxide	216149	0.0979034
7.67	gamma-Chlordane	231715	0.0967466
7.86	alpha-Chlordane	233154	0.0943916
7.97	4,4'-DDE	431479	0.1899952
8.06	Endosulfan I	230609	0.1009346
8.40	Dieldrin	429191	0.1922838
8.74	Endrin	380830	0.1874644
8.83	4,4'-DDD	362439	0.1919039
9.07	Endosulfan II	368554	0.1902770
9.24	4,4'-DDT	357242	0.1928783
9.68	Endrin aldehyde	300719	0.1827377
9.94	Methoxychlor	822613	0.9274965
10.29	Endosulfan sulfate	326073	0.1914100
10.66	Endrin ketone	406450	0.1828958
11.79	Decachlorobiphenyl	297482	0.1751558

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:25:21
Operator	: sagers	Sample Name	: PEMB1
Sample Number	: 017	Study	: 28317
AutoSampler	: HP7673A	Rack/Vial	: 0/17
Instrument Name	: GCE31	Channel	: A
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 17:29:33	Dilution Factor	: 1.00
		Cycle	: 16

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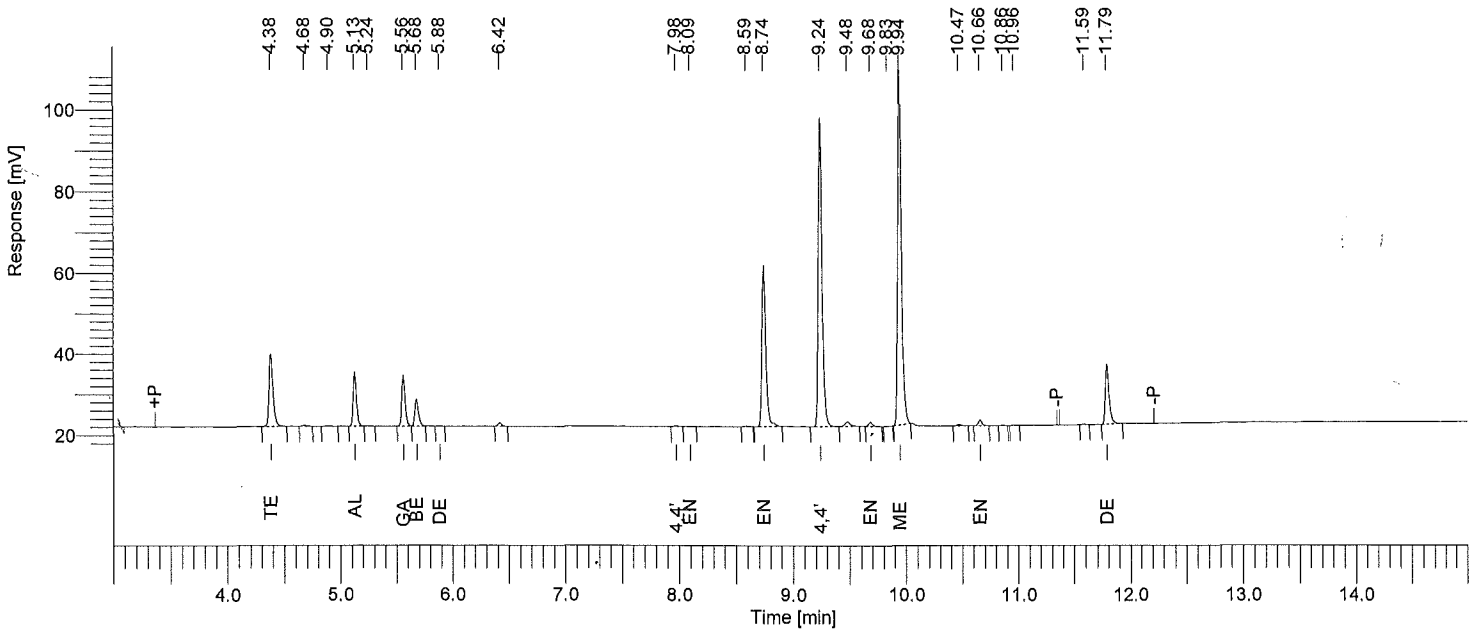

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.38	Tetrachloro-m-xylene	43853	0.0199432	0.0199432	0.02000	99.7
5.13	alpha-BHC	27381	0.0098591	0.0098591	0.01000	98.6
5.56	gamma-BHC	26266	0.0101235	0.0101235	0.01000	101.2
5.68	beta-BHC	14852	0.0105290	0.0105290	0.01000	105.3
5.88	delta-BHC	146	0.0000582	0.0000582	0.00000	------
6.21	Heptachlor	0	0.0000000	0.0000000	----------	------
6.63	Aldrin	0	0.0000000	0.0000000	----------	------
7.49	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
7.67	gamma-Chlordane	0	0.0000000	0.0000000	----------	------
7.86	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
7.98	4,4'-DDE	485	0.0002137	0.0002137	0.10000	0.2
8.09	Endosulfan I	339	0.0001483	0.0001483	0.00000	------
8.40	Dieldrin	0	0.0000000	0.0000000	----------	------
8.74	Endrin	97533	0.0480110	0.0480110	0.05000	96.0
8.83	4,4'-DDD	0	0.0000000	0.0000000	----------	------
9.06	Endosulfan II	0	0.0000000	0.0000000	----------	------
9.24	4,4'-DDT	179424	0.0968727	0.0968727	0.10000	96.9
9.68	Endrin aldehyde	2469	0.0015006	0.0015006	0.05000	3.0
9.94	Methoxychlor	204265	0.2303087	0.2303087	0.25000	92.1
10.29	Endosulfan sulfate	0	0.0000000	0.0000000	----------	------
10.66	Endrin ketone	3107	0.0013983	0.0013983	0.05000	2.8
11.79	Decachlorobiphenyl	34113	0.0200858	0.0200858	0.02000	100.4
			0.4490520			796.3

06/20/2015 09:25:21 Result: \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619A_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	485	0.0002137	0.0002137	0.10000	0.2
8.83	4,4'-DDD	0	0.0000000	0.0000000	----------	------
			0.0002137			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 %
9.68	Endrin aldehyde	2469	0.0015006	0.0015006	0.05000	3.0
10.66	Endrin ketone	3107	0.0013983	0.0013983	0.05000	2.8
			0.0028988			5.8

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:26:04
Operator	: sagers	Sample Name	: INDC3C1
Sample Number	: 037	Study	: 28313
AutoSampler	: HP7673A	Rack/Vial	: 0/37
Instrument Name	: GCE31	Channel	: A
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	: 06/20/2015 00:16:01	Dilution Factor	: 1.00
		Cycle	: 36

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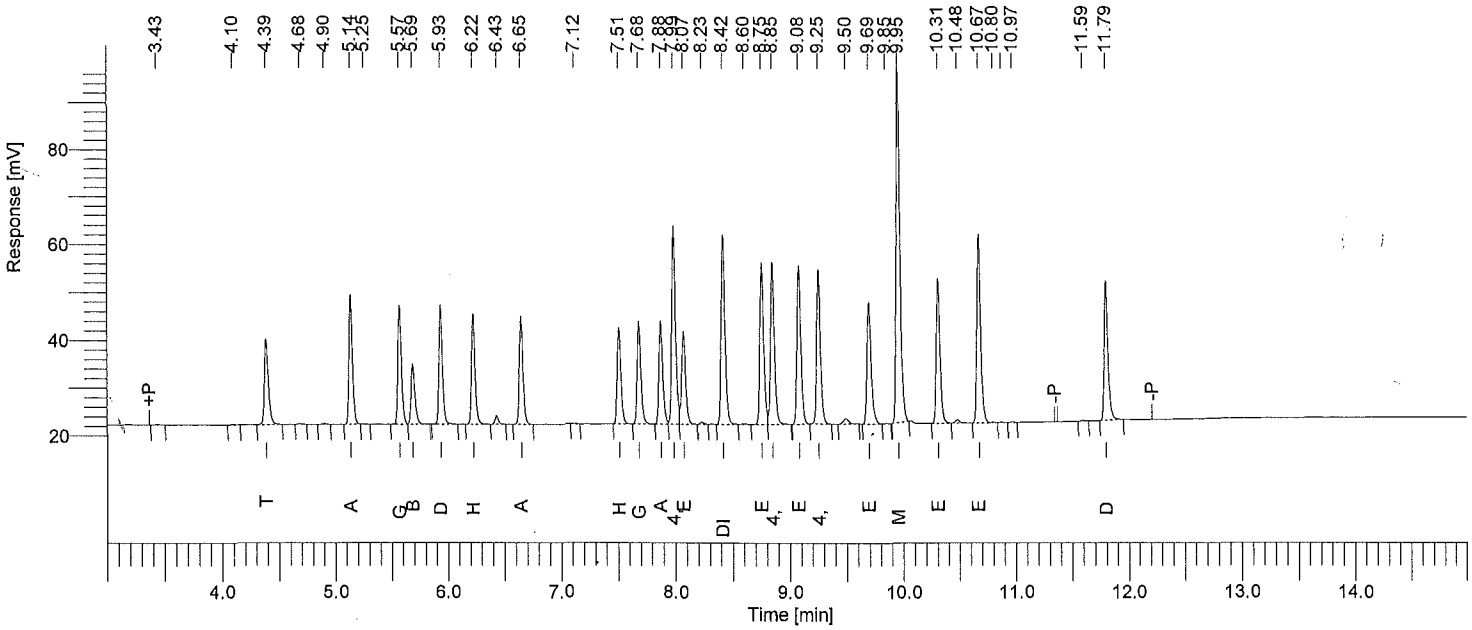

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.39	Tetrachloro-m-xylene	43521	0.0197921	0.0197921	0.0200000	99.0
5.14	alpha-BHC	58099	0.0209198	0.0209198	0.0200000	104.6
5.57	gamma-BHC	54407	0.0209692	0.0209692	0.0200000	104.8
5.69	beta-BHC	29740	0.0210836	0.0210836	0.0200000	105.4
5.93	delta-BHC	53964	0.0215278	0.0215278	0.0200000	107.6
6.22	Heptachlor	50454	0.0208348	0.0208348	0.0200000	104.2
6.65	Aldrin	49694	0.0206381	0.0206381	0.0200000	103.2
7.51	Heptachlor epoxide	45592	0.0206508	0.0206508	0.0200000	103.3
7.68	gamma-Chlordane	49450	0.0206467	0.0206467	0.0200000	103.2
7.88	alpha-Chlordane	49888	0.0201972	0.0201972	0.0200000	101.0
7.99	4,4'-DDE	93973	0.0413795	0.0413795	0.0400000	103.4
8.07	Endosulfan I	46507	0.0203557	0.0203557	0.0200000	101.8
8.42	Dieldrin	92157	0.0412875	0.0412875	0.0400000	103.2
8.75	Endrin	79226	0.0389994	0.0389994	0.0400000	97.5
8.85	4,4'-DDD	80151	0.0424381	0.0424381	0.0400000	106.1
9.08	Endosulfan II	79119	0.0408476	0.0408476	0.0400000	102.1
9.25	4,4'-DDT	74850	0.0404120	0.0404120	0.0400000	101.0
9.69	Endrin aldehyde	65010	0.0395043	0.0395043	0.0400000	98.8
9.95	Methoxychlor	174198	0.1964082	0.1964082	0.2000000	98.2
10.31	Endosulfan sulfate	70333	0.0412868	0.0412868	0.0400000	103.2
10.67	Endrin ketone	92618	0.0416764	0.0416764	0.0400000	104.2
11.79	Decachlorobiphenyl	67297	0.0396239	0.0396239	0.0400000	99.1

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:26:28
Operator	: sagers	Sample Name	: PEMD1
Sample Number	: 048	Study	: 28317
AutoSampler	: HP7673A	Rack/Vial	: 0/48
Instrument Name	: GCE31	Channel	: A
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	: 06/20/2015 03:58:56	Dilution Factor	: 1.00
		Cycle	: 47

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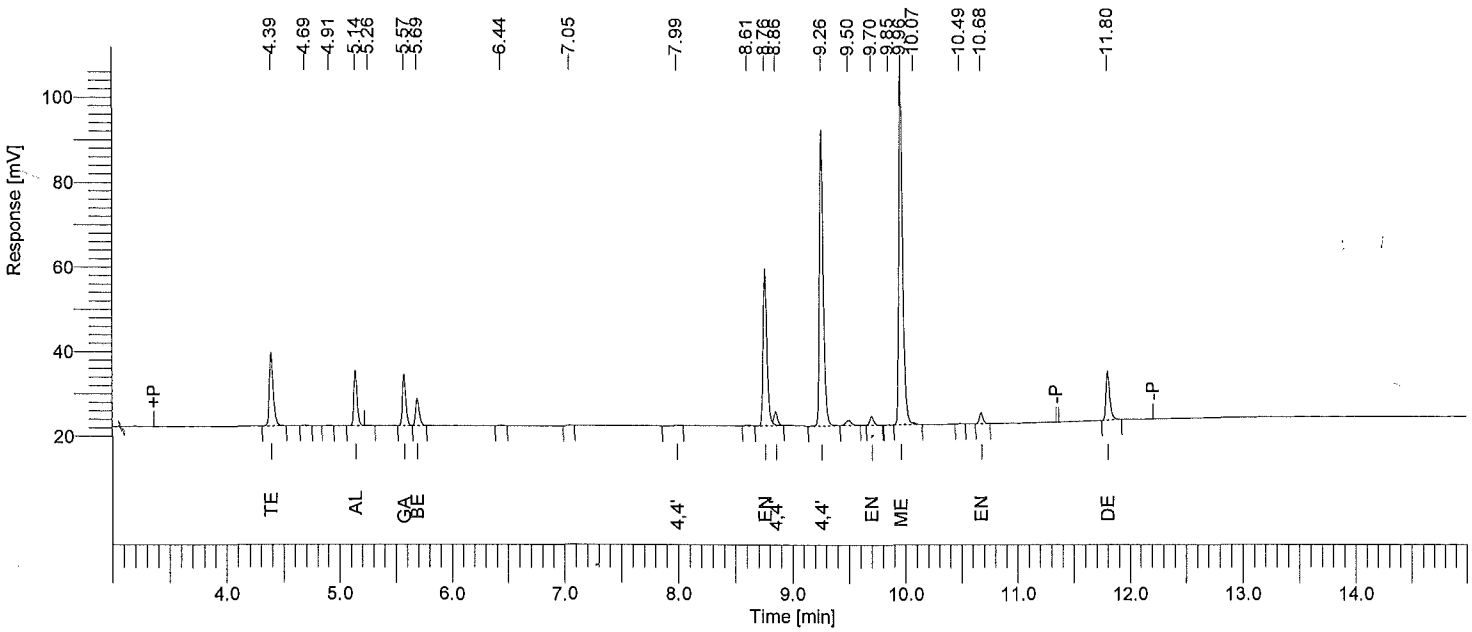

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.39	Tetrachloro-m-xylene	41584	0.0189116	0.0189116	0.02000	94.6
5.14	alpha-BHC	26587	0.0095732	0.0095732	0.01000	95.7
5.57	gamma-BHC	25606	0.0098691	0.0098691	0.01000	98.7
5.69	beta-BHC	14607	0.0103554	0.0103554	0.01000	103.6
5.92	delta-BHC	0	0.0000000	0.0000000	----------	------
6.21	Heptachlor	0	0.0000000	0.0000000	----------	------
6.63	Aldrin	0	0.0000000	0.0000000	----------	------
7.49	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
7.67	gamma-Chlordane	0	0.0000000	0.0000000	----------	------
7.86	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
7.99	4,4'-DDE	739	0.0003256	0.0003256	0.10000	0.3
8.06	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.40	Dieldrin	0	0.0000000	0.0000000	----------	------
8.76	Endrin	87951	0.0432939	0.0432939	0.05000	86.6
8.86	4,4'-DDD	6602	0.0034957	0.0034957	0.10000	3.5
9.06	Endosulfan II	0	0.0000000	0.0000000	----------	------
9.26	4,4'-DDT	165555	0.0893850	0.0893850	0.10000	89.4
9.70	Endrin aldehyde	4912	0.0029849	0.0029849	0.05000	6.0
9.96	Methoxychlor	196056	0.2210537	0.2210537	0.25000	88.4
10.29	Endosulfan sulfate	0	0.0000000	0.0000000	----------	------
10.68	Endrin ketone	5649	0.0025418	0.0025418	0.05000	5.1
11.80	Decachlorobiphenyl	26592	0.0156575	0.0156575	0.02000	78.3
			0.4274473			750.1

06/20/2015 09:26:28 Result: \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619A_048.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 %
7.99	4,4'-DDE	739	0.0003256	0.0003256	0.10000	0.3
8.86	4,4'-DDD	6602	0.0034957	0.0034957	0.10000	3.5
			0.0038213			3.8

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 %
9.70	Endrin aldehyde	4912	0.0029849	0.0029849	0.05000	6.0
10.68	Endrin ketone	5649	0.0025418	0.0025418	0.05000	5.1
			0.0055267			11.1

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:26:39
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/19/2015 13:24:34	Cycle	: 4

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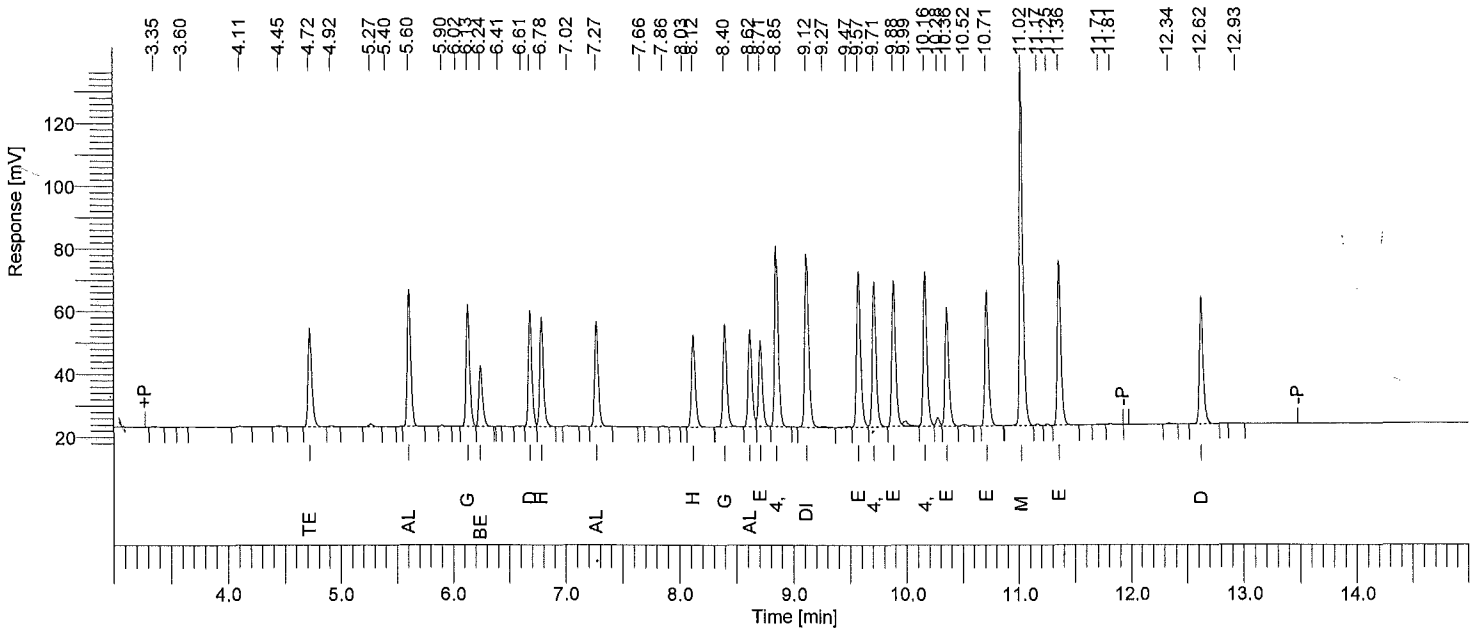

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.72	Tetrachloro-m-xylene	72343	0.0203189
5.60	alpha-BHC	93848	0.0208658
6.13	gamma-BHC	85431	0.0209134
6.24	beta-BHC	44767	0.0205195
6.68	delta-BHC	80445	0.0209146
6.78	Heptachlor	77622	0.0207357
7.27	Aldrin	75426	0.0210055
8.12	Heptachlor epoxide	68124	0.0212161
8.40	gamma-Chlordane	75436	0.0219056
8.62	alpha-Chlordane	71110	0.0206534
8.71	Endosulfan I	63629	0.0207708
8.85	4,4'-DDE	131648	0.0410996
9.12	Dieldrin	132479	0.0414689
9.57	Endrin	118182	0.0432585
9.71	4,4'-DDD	106296	0.0419532
9.88	Endosulfan II	110319	0.0414232
10.16	4,4'-DDT	109850	0.0414608
10.36	Endrin aldehyde	88639	0.0407758
10.71	Endosulfan sulfate	95884	0.0410952
11.02	Methoxychlor	244056	0.2028843
11.36	Endrin ketone	115595	0.0405478
12.62	Decachlorobiphenyl	93048	0.0407726

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:26:41
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	: 06/19/2015 13:45:08	Dilution Factor	: 1.00
		Cycle	: 5

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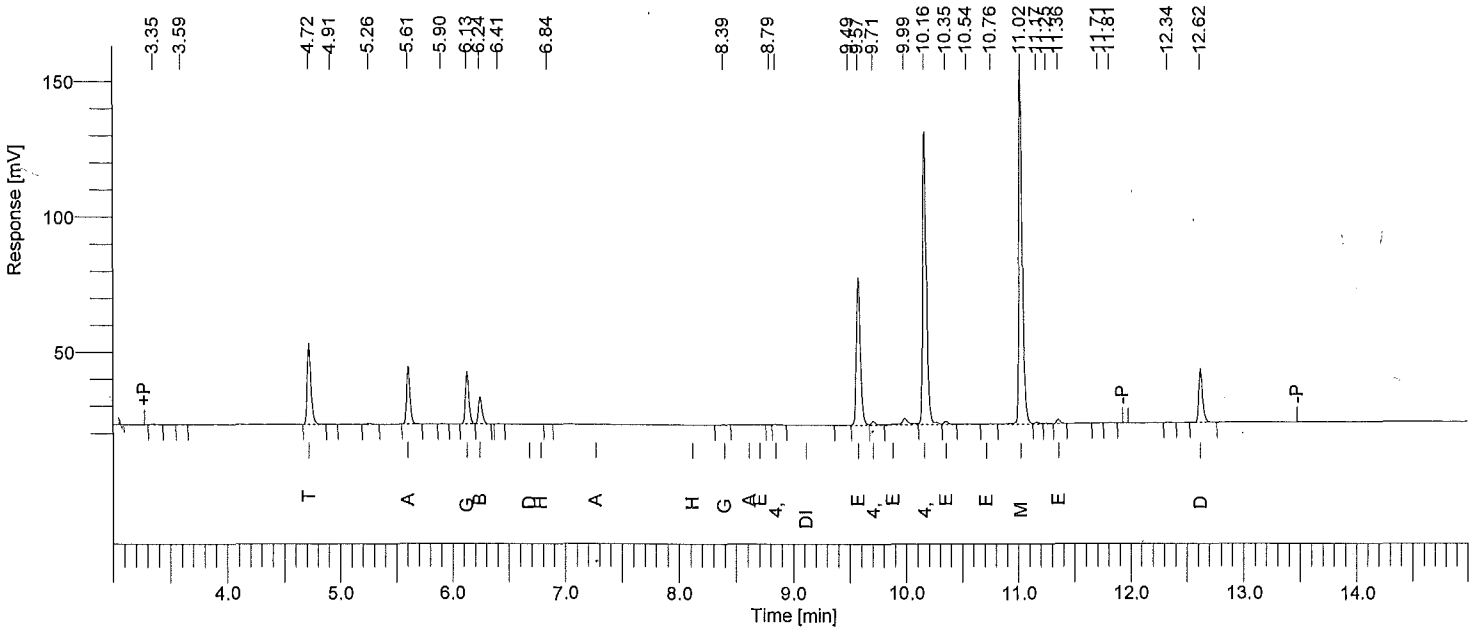

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.72	Tetrachloro-m-xylene	69311	0.0194672	0.0194672	0.02000	97.3
5.61	alpha-BHC	44156	0.0098175	0.0098175	0.01000	98.2
6.13	gamma-BHC	40927	0.0100189	0.0100189	0.01000	100.2
6.24	beta-BHC	22565	0.0103428	0.0103428	0.01000	103.4
6.68	delta-BHC	0	0.0000000	0.0000000	----------	------
6.78	Heptachlor	0	0.0000000	0.0000000	----------	------
7.27	Aldrin	0	0.0000000	0.0000000	----------	------
8.12	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
8.39	gamma-Chlordane	449	0.0001305	0.0001305	0.00000	------
8.61	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
8.70	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.85	4,4'-DDE	882	0.0002752	0.0002752	0.10000	0.3
9.11	Dieldrin	0	0.0000000	0.0000000	----------	------
9.57	Endrin	131823	0.0482515	0.0482515	0.05000	96.5
9.71	4,4'-DDD	4565	0.0018017	0.0018017	0.10000	1.8
9.88	Endosulfan II	0	0.0000000	0.0000000	----------	------
10.16	4,4'-DDT	248706	0.0938696	0.0938696	0.10000	93.9
10.35	Endrin aldehyde	3301	0.0015185	0.0015185	0.05000	3.0
10.76	Endosulfan sulfate	834	0.0003574	0.0003574	0.00000	------
11.02	Methoxychlor	284453	0.2364667	0.2364667	0.25000	94.6
11.36	Endrin ketone	3254	0.0011414	0.0011414	0.05000	2.3
12.62	Decachlorobiphenyl	46587	0.0204138	0.0204138	0.02000	102.1
			0.4538725			793.6

06/20/2015 09:26:41 Result: \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619B_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 %
8.85	4,4'-DDE	882	0.0002752	0.0002752	0.10000	0.3
9.71	4,4'-DDD	4565	0.0018017	0.0018017	0.10000	1.8
			0.0020769			2.1

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 %
10.35	Endrin aldehyde	3301	0.0015185	0.0015185	0.05000	3.0
11.36	Endrin ketone	3254	0.0011414	0.0011414	0.05000	2.3
			0.0026599			5.3

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:26:43
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	: 06/19/2015 14:05:30	Dilution Factor	: 1.00
		Cycle	: 6

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Proc Method : \\AlsItws012\TCCS\sagers\GCE31\31150619\31_som_tox_b.mth from \\AlsItws012\TCCS\sagers\GCE31\31150619\31150619B_006.rst
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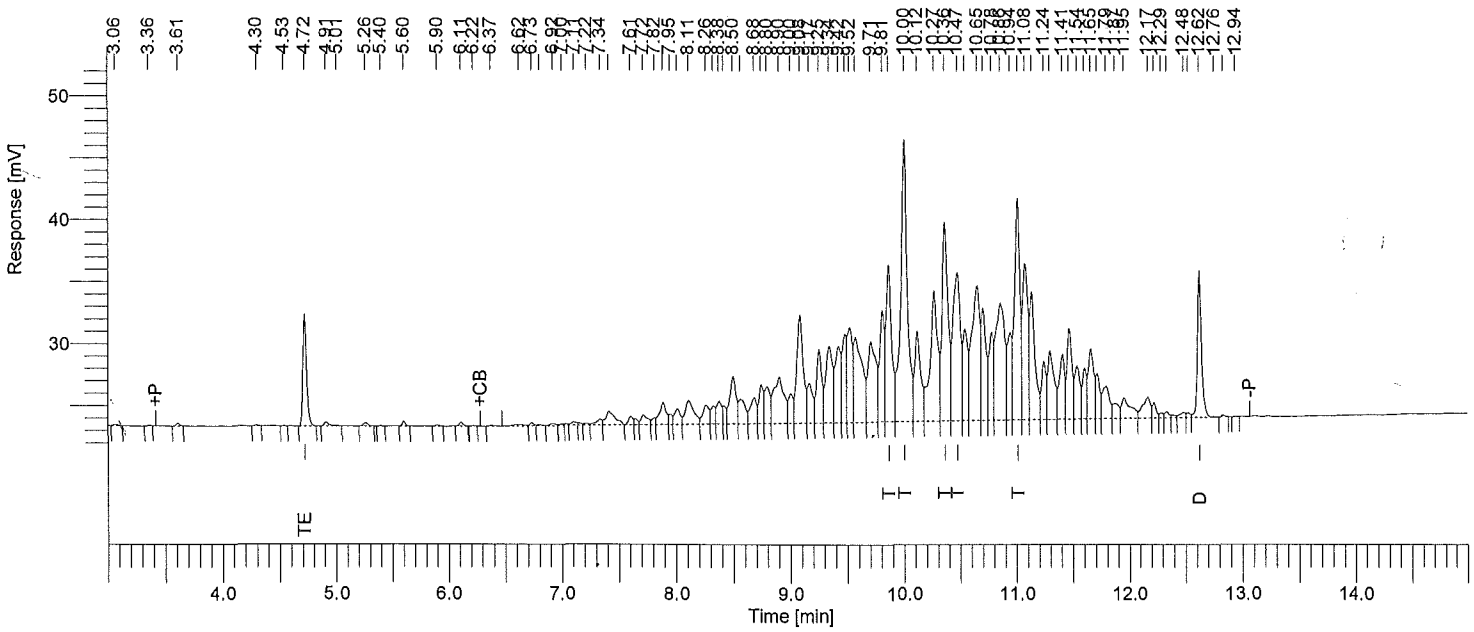

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.72	Tetrachloro-m-xylene	20298	0.0056202
9.86	Toxaphene-1	44548	0.5168198
10.00	Toxaphene-2	92733	0.5333420
10.36	Toxaphene-3	59892	0.5102466
10.47	Toxaphene-4	56343	0.5030145
11.01	Toxaphene-5	59990	0.5145099
12.62	Decachlorobiphenyl	29971	0.0113918

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:26:44
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	: 06/19/2015 14:26:02	Dilution Factor	: 1.00
		Cycle	: 7

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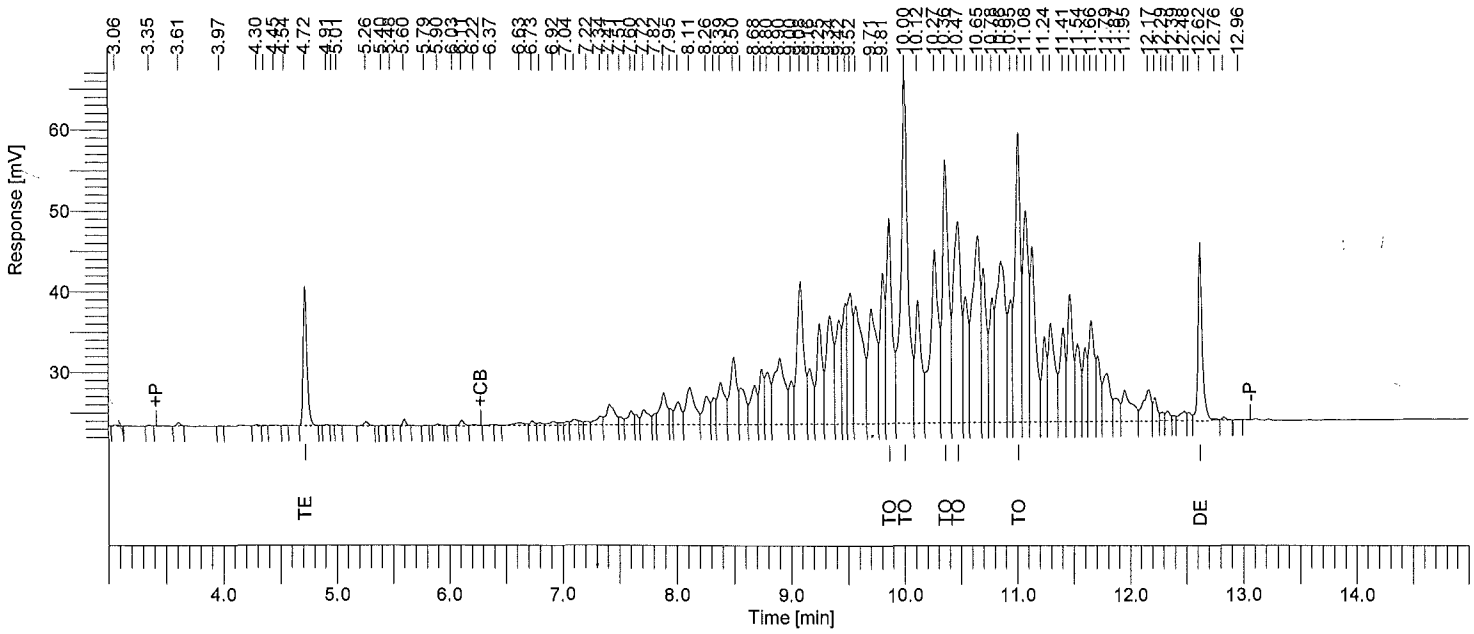

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.72	Tetrachloro-m-xylene	39457	0.0109253
9.86	Toxaphene-1	91695	1.0637830
10.00	Toxaphene-2	185236	1.0653560
10.36	Toxaphene-3	124370	1.0595591
10.47	Toxaphene-4	118329	1.0564055
11.01	Toxaphene-5	121979	1.0461601
12.62	Decachlorobiphenyl	55868	0.0212352

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:26:46
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	: 06/19/2015 14:46:24	Dilution Factor	: 1.00
		Cycle	: 8

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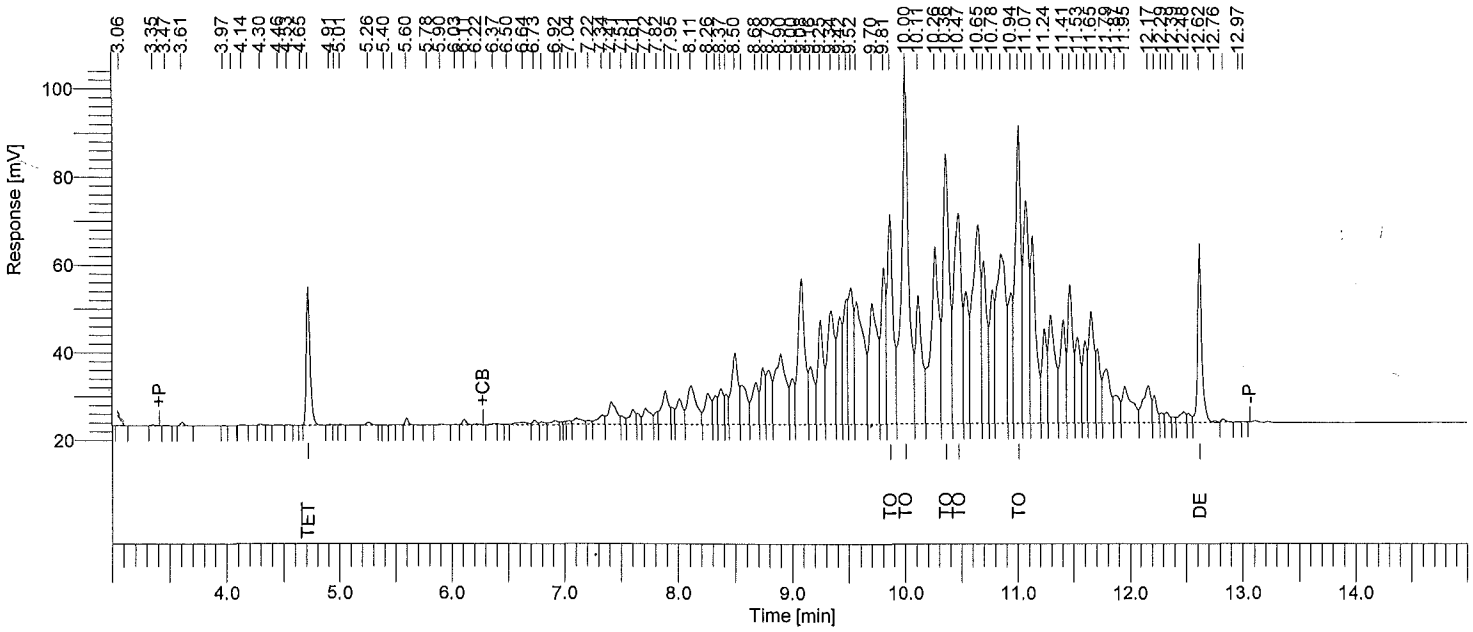

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.72	Tetrachloro-m-xylene	72858	0.0201738	0.0201738	0.0200000	100.9
9.86	Toxaphene-1	176652	2.0494004	2.0494004	2.0000000	102.5
10.00	Toxaphene-2	349745	2.0115081	2.0115081	2.0000000	100.6
10.36	Toxaphene-3	239869	2.0435360	2.0435360	2.0000000	102.2
10.47	Toxaphene-4	229761	2.0512408	2.0512408	2.0000000	102.6
11.01	Toxaphene-5	236632	2.0294823	2.0294823	2.0000000	101.5
12.62	Decachlorobiphenyl	104215	0.0396117	0.0396117	0.0400000	99.0

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:26:48
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	: 06/19/2015 15:06:44	Dilution Factor	: 1.00
		Cycle	: 9

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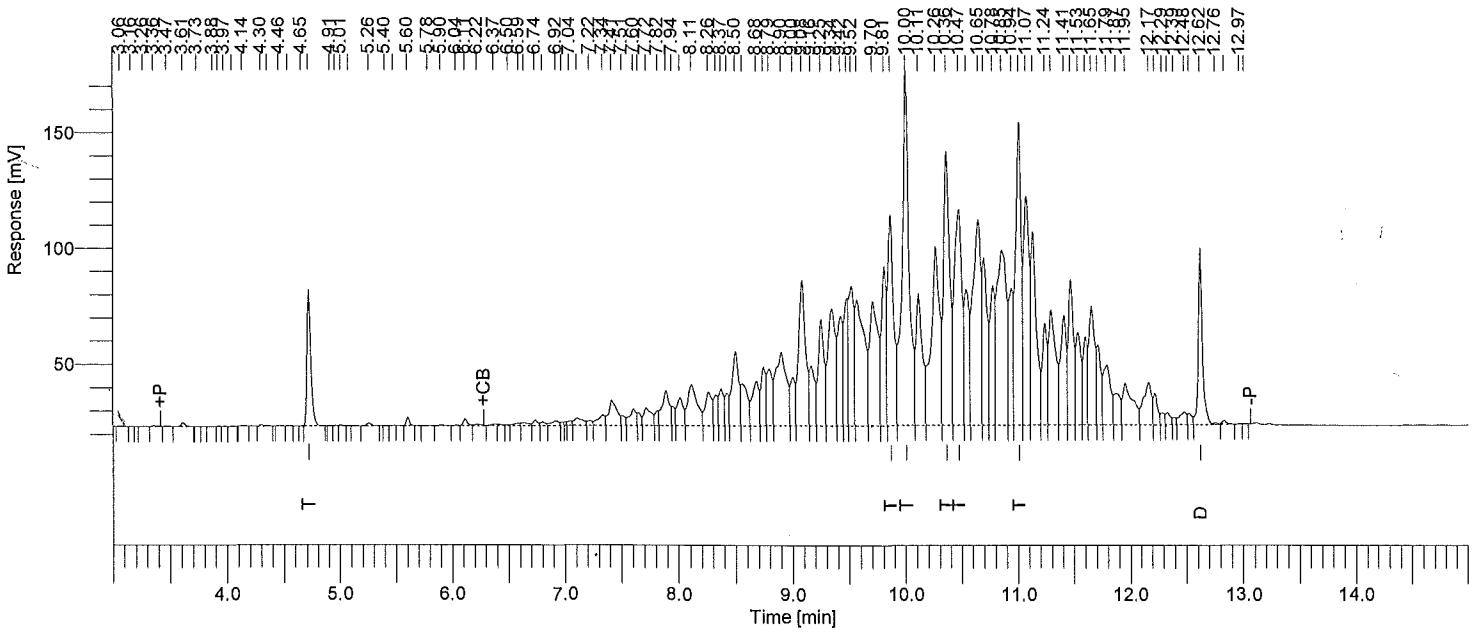

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.72	Tetrachloro-m-xylene	135940	0.0376407
9.86	Toxaphene-1	338479	3.9268106
10.00	Toxaphene-2	672788	3.8694423
10.36	Toxaphene-3	461622	3.9327394
10.47	Toxaphene-4	444865	3.9716229
11.01	Toxaphene-5	458251	3.9302074
12.62	Decachlorobiphenyl	198375	0.0754016

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:26:50
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	: 06/19/2015 15:27:04	Dilution Factor	: 1.00
		Cycle	: 10

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Report Format File: \\Alsltws012\TCCS\sagers\GCE31\31150618\31_RPT_2UL\31_som_std_b.rpt
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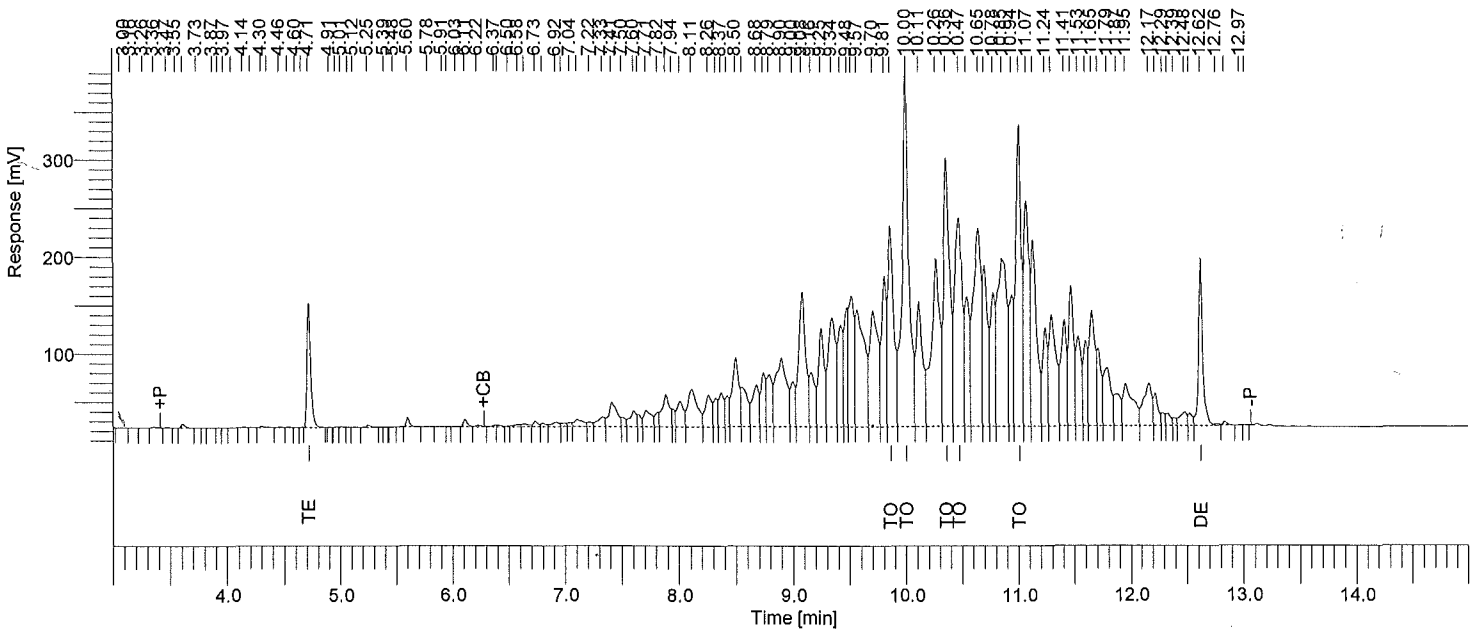

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.71	Tetrachloro-m-xylene	301098	0.0833714
9.86	Toxaphene-1	772474	8.9617454
10.00	Toxaphene-2	1555886	8.9484541
10.36	Toxaphene-3	1074015	9.1499496
10.47	Toxaphene-4	1029425	9.1903934
11.01	Toxaphene-5	1081471	9.2752701
12.62	Decachlorobiphenyl	455806	0.1732501

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:26:54
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/19/2015 15:47:40	Cycle	: 11

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Report Format File: \\AlsItws012\TCCS\sagers\GCE31\31150618\31_RPT_2UL\31_som_std_b.rpt
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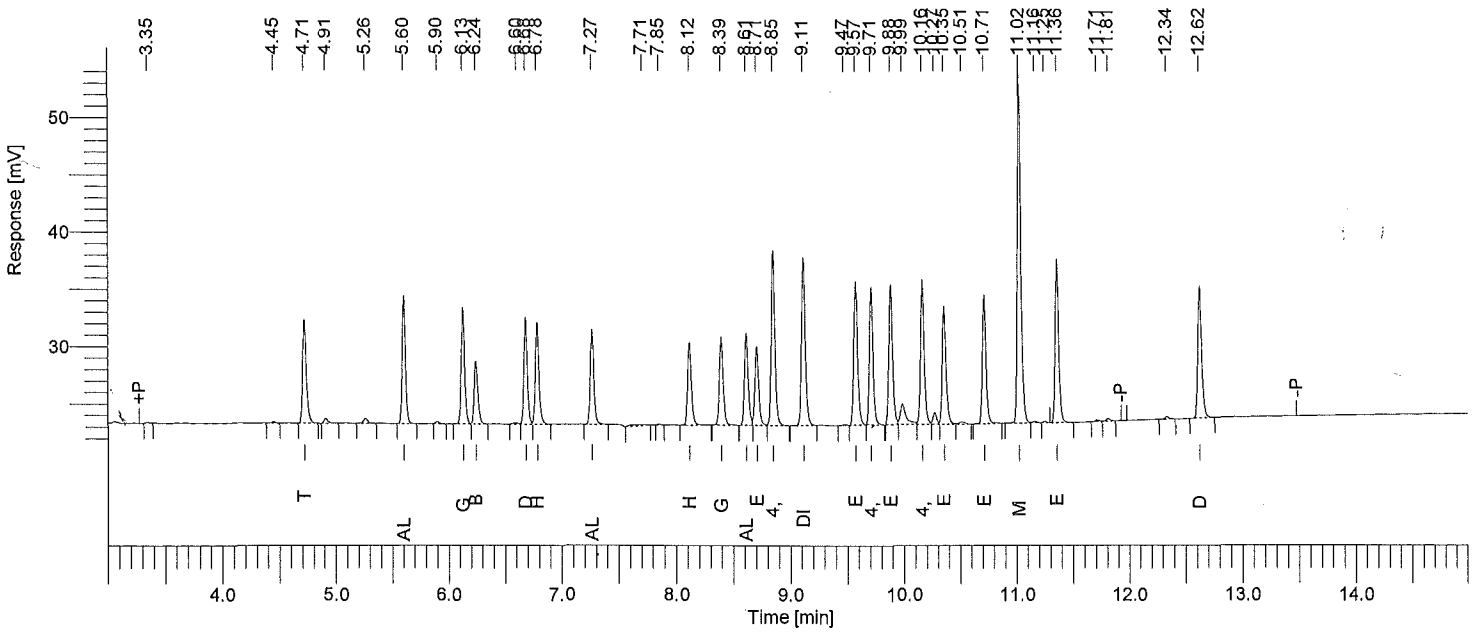

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.71	Tetrachloro-m-xylene	20386	0.0057257
5.60	alpha-BHC	22589	0.0050224
6.13	gamma-BHC	21233	0.0051978
6.24	beta-BHC	12388	0.0056784
6.68	delta-BHC	19142	0.0049766
6.78	Heptachlor	19549	0.0052223
7.27	Aldrin	17986	0.0050090
8.12	Heptachlor epoxide	16542	0.0051516
8.39	gamma-Chlordane	17688	0.0051365
8.61	alpha-Chlordane	18228	0.0052941
8.71	Endosulfan I	15918	0.0051962
8.85	4,4'-DDE	33995	0.0106129
9.11	Dieldrin	33465	0.0104753
9.57	Endrin	28739	0.0105195
9.71	4,4'-DDD	26643	0.0105157
9.88	Endosulfan II	28217	0.0105952
10.16	4,4'-DDT	28149	0.0106242
10.35	Endrin aldehyde	24385	0.0112175
10.71	Endosulfan sulfate	24762	0.0106128
11.02	Methoxychlor	65720	0.0546331
11.36	Endrin ketone	31022	0.0108817
12.62	Decachlorobiphenyl	27188	0.0119137

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:26:56
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/19/2015 16:08:00	Cycle	: 12

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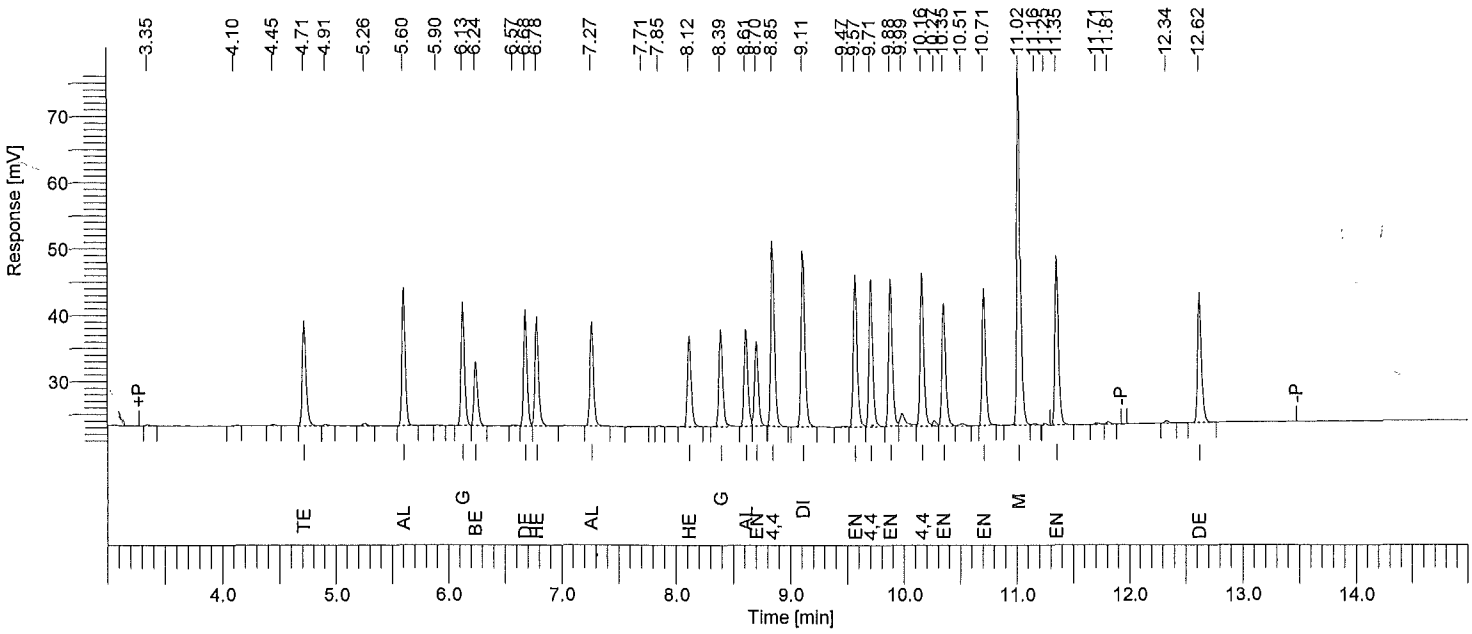

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.71	Tetrachloro-m-xylene	36204	0.0101687
5.60	alpha-BHC	43197	0.0096042
6.13	gamma-BHC	39516	0.0096734
6.24	beta-BHC	21817	0.0100001
6.68	delta-BHC	37038	0.0096294
6.78	Heptachlor	36474	0.0097437
7.27	Aldrin	34590	0.0096330
8.12	Heptachlor epoxide	31397	0.0097780
8.39	gamma-Chlordane	33824	0.0098221
8.61	alpha-Chlordane	33650	0.0097733
8.70	Endosulfan I	29422	0.0096044
8.85	4,4'-DDE	62209	0.0194212
9.11	Dieldrin	62243	0.0194835
9.57	Endrin	53529	0.0195934
9.71	4,4'-DDD	50286	0.0198469
9.88	Endosulfan II	51701	0.0194131
10.16	4,4'-DDT	51415	0.0194056
10.35	Endrin aldehyde	43738	0.0201204
10.71	Endosulfan sulfate	44800	0.0192010
11.02	Methoxychlor	114116	0.0948651
11.35	Endrin ketone	55764	0.0195607
12.62	Decachlorobiphenyl	46218	0.0202522

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:26:58
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	: 06/19/2015 16:28:18	Dilution Factor	: 1.00
		Cycle	: 13

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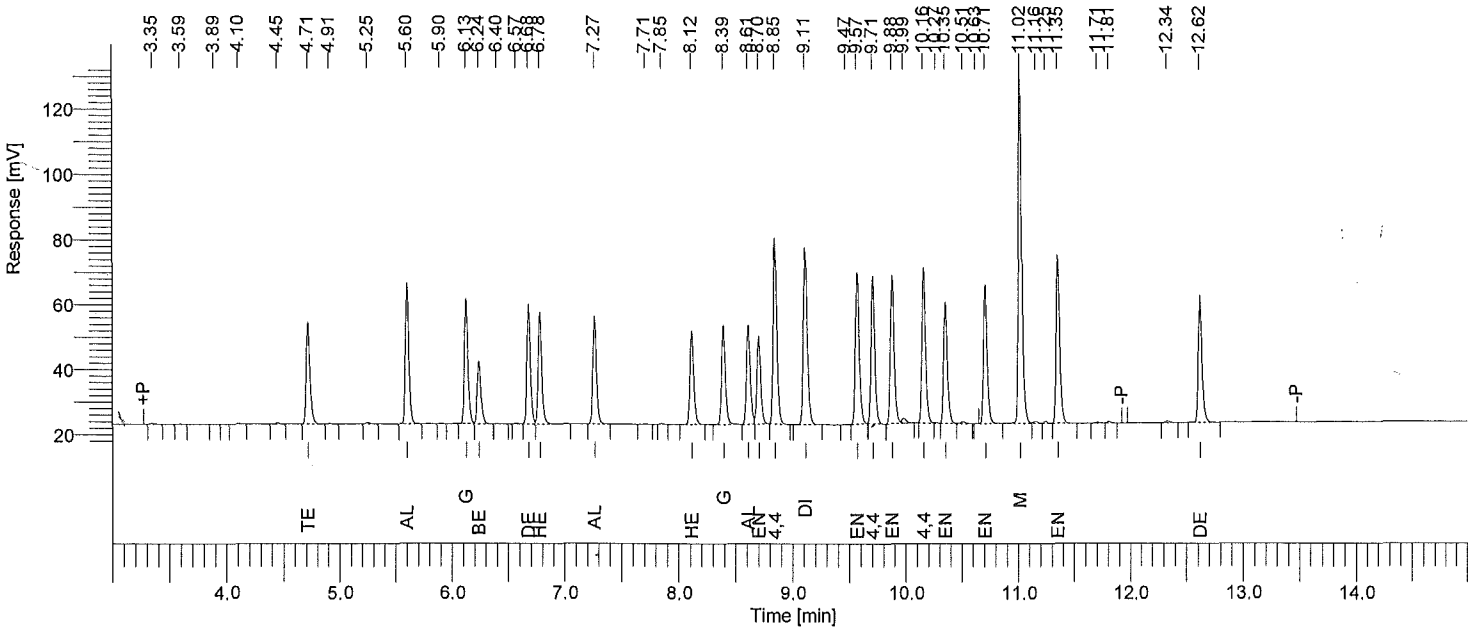

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.71	Tetrachloro-m-xylene	71838	0.0201772	0.0201772	0.0200000	100.9
5.60	alpha-BHC	92872	0.0206486	0.0206486	0.0200000	103.2
6.13	gamma-BHC	84209	0.0206143	0.0206143	0.0200000	103.1
6.24	beta-BHC	44637	0.0204599	0.0204599	0.0200000	102.3
6.68	delta-BHC	80104	0.0208261	0.0208261	0.0200000	104.1
6.78	Heptachlor	77476	0.0206969	0.0206969	0.0200000	103.5
7.27	Aldrin	74450	0.0207336	0.0207336	0.0200000	103.7
8.12	Heptachlor epoxide	66581	0.0207355	0.0207355	0.0200000	103.7
8.39	gamma-Chlordane	71236	0.0206862	0.0206862	0.0200000	103.4
8.61	alpha-Chlordane	70802	0.0205639	0.0205639	0.0200000	102.8
8.70	Endosulfan I	62694	0.0204655	0.0204655	0.0200000	102.3
8.85	4,4'-DDE	130187	0.0406434	0.0406434	0.0400000	101.6
9.11	Dieldrin	129898	0.0406608	0.0406608	0.0400000	101.7
9.57	Endrin	109555	0.0401007	0.0401007	0.0400000	100.3
9.71	4,4'-DDD	103351	0.0407912	0.0407912	0.0400000	102.0
9.88	Endosulfan II	108031	0.0405641	0.0405641	0.0400000	101.4
10.16	4,4'-DDT	105580	0.0398492	0.0398492	0.0400000	99.6
10.35	Endrin aldehyde	86997	0.0400207	0.0400207	0.0400000	100.1
10.71	Endosulfan sulfate	94264	0.0404008	0.0404008	0.0400000	101.0
11.02	Methoxychlor	233373	0.1940042	0.1940042	0.2000000	97.0
11.35	Endrin ketone	113859	0.0399387	0.0399387	0.0400000	99.8
12.62	Decachlorobiphenyl	89891	0.0393894	0.0393894	0.0400000	98.5

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:27:00
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/19/2015 16:48:41	Cycle	: 14

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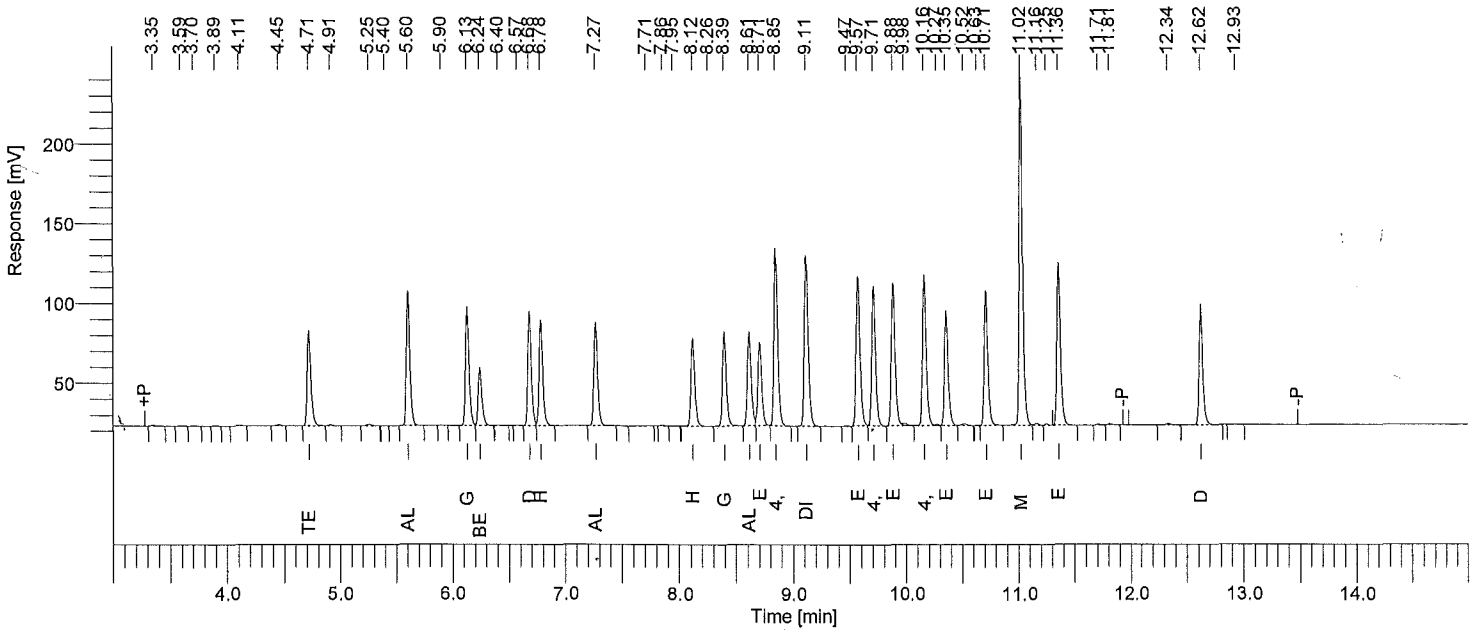

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.71	Tetrachloro-m-xylene	137486	0.0386155
5.60	alpha-BHC	185083	0.0411504
6.13	gamma-BHC	165466	0.0405059
6.24	beta-BHC	84361	0.0386678
6.68	delta-BHC	158140	0.0411146
6.78	Heptachlor	150652	0.0402449
7.27	Aldrin	148114	0.0412484
8.12	Heptachlor epoxide	129494	0.0403287
8.39	gamma-Chlordane	138770	0.0402971
8.61	alpha-Chlordane	137694	0.0399922
8.71	Endosulfan I	124575	0.0406655
8.85	4,4'-DDE	255919	0.0798960
9.11	Dieldrin	257950	0.0807437
9.57	Endrin	222512	0.0814465
9.71	4,4'-DDD	201452	0.0795099
9.88	Endosulfan II	214235	0.0804426
10.16	4,4'-DDT	212658	0.0802641
10.35	Endrin aldehyde	169164	0.0778193
10.71	Endosulfan sulfate	189000	0.0810038
11.02	Methoxychlor	471374	0.3918548
11.36	Endrin ketone	226046	0.0792909
12.62	Decachlorobiphenyl	173190	0.0758901

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:27:02
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	: 06/19/2015 17:08:59	Dilution Factor	: 1.00
		Cycle	: 15

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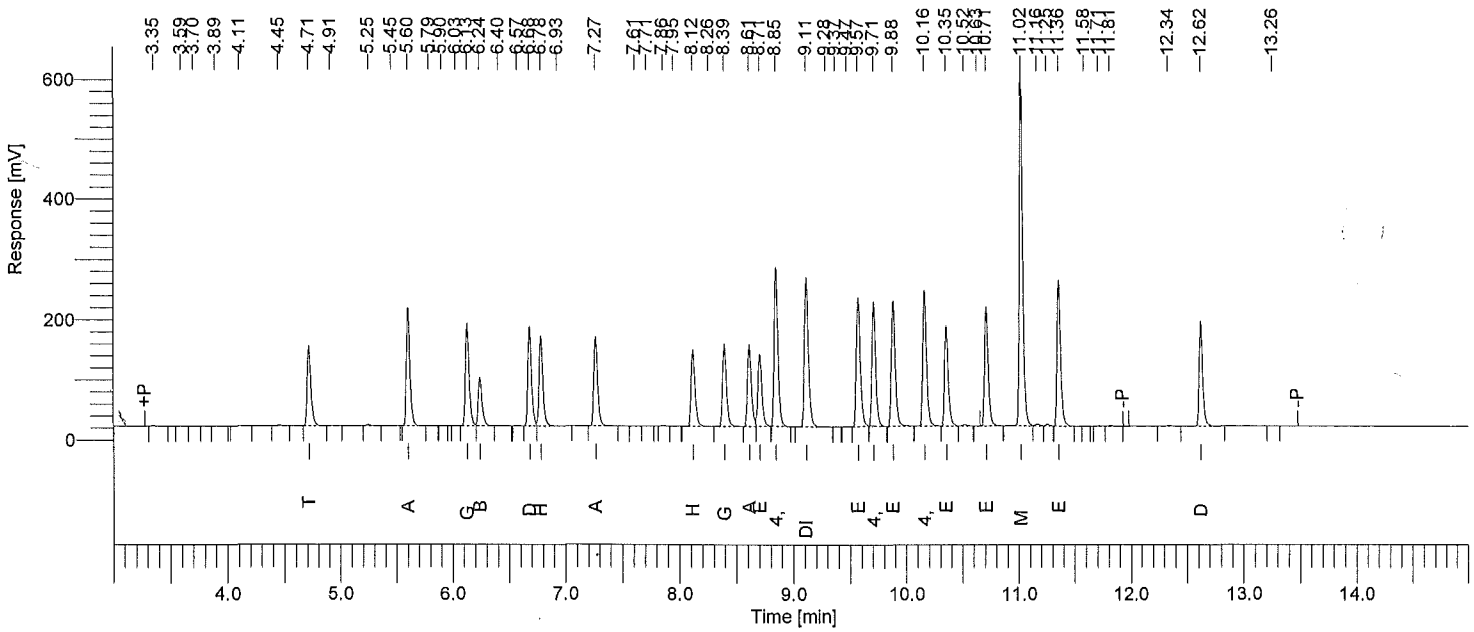

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.71	Tetrachloro-m-xylene	307525	0.0863743
5.60	alpha-BHC	438040	0.0973916
6.13	gamma-BHC	387966	0.0949735
6.24	beta-BHC	190814	0.0874622
6.68	delta-BHC	374082	0.0972569
6.78	Heptachlor	351953	0.0940202
7.27	Aldrin	347228	0.0967001
8.12	Heptachlor epoxide	304038	0.0946877
8.39	gamma-Chlordane	326720	0.0948757
8.61	alpha-Chlordane	322213	0.0935843
8.71	Endosulfan I	294212	0.0960411
8.85	4,4'-DDE	610434	0.1905734
9.11	Dieldrin	608575	0.1904969
9.57	Endrin	517871	0.1895572
9.71	4,4'-DDD	477565	0.1884871
9.88	Endosulfan II	506111	0.1900381
10.16	4,4'-DDT	512821	0.1935552
10.35	Endrin aldehyde	390838	0.1797944
10.71	Endosulfan sulfate	446163	0.1912218
11.02	Methoxychlor	1213792	1.0090298
11.36	Endrin ketone	538347	0.1888376
12.62	Decachlorobiphenyl	393739	0.1725326

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:27:06
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 17:49:53	Dilution Factor	: 1.00
		Cycle	: 17

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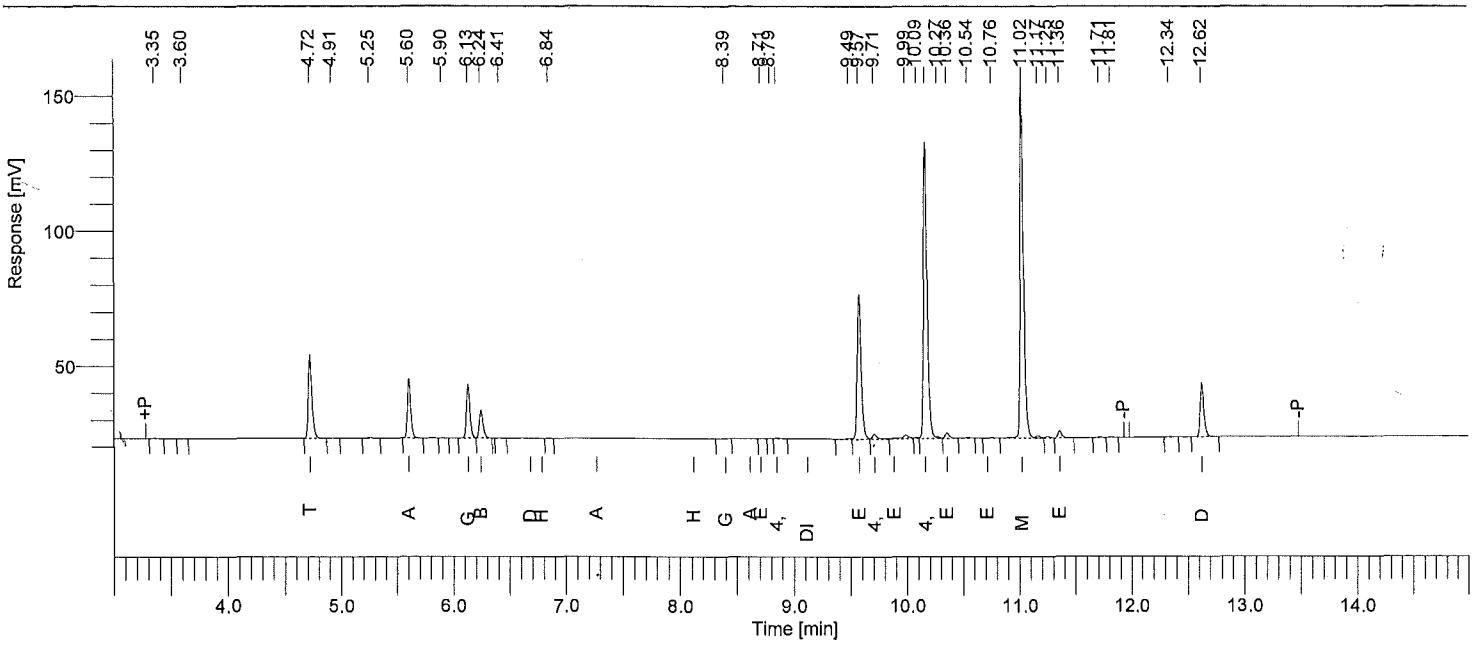
Calib Method : \\Alsltws012\TCCS\sagers\GCE31\31150619\31_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619B_017.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE31\31150618\31_RPT_2UL\31_som_pem_b.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619_SOM012_PEST_F9M21_A.seq



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 %
4.72	Tetrachloro-m-xylene	70872	0.0199056	0.0199056	0.02000	99.5
5.60	alpha-BHC	45605	0.0101396	0.0101396	0.01000	101.4
6.13	gamma-BHC	42122	0.0103113	0.0103113	0.01000	103.1
6.24	beta-BHC	23303	0.0106811	0.0106811	0.01000	106.8
6.68	delta-BHC	0	0.0000000	0.0000000	----------	------
6.78	Heptachlor	0	0.0000000	0.0000000	----------	------
7.27	Aldrin	0	0.0000000	0.0000000	----------	------
8.12	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
8.39	gamma-Chlordane	450	0.0001306	0.0001306	0.00000	------
8.61	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
8.71	Endosulfan I	158	0.0000516	0.0000516	0.00000	------
8.85	4,4'-DDE	986	0.0003079	0.0003079	0.10000	0.3
9.11	Dieldrin	0	0.0000000	0.0000000	----------	------
9.57	Endrin	128871	0.0471711	0.0471711	0.05000	94.3
9.71	4,4'-DDD	6010	0.0023721	0.0023721	0.10000	2.4
9.88	Endosulfan II	0	0.0000000	0.0000000	----------	------
10.16	4,4'-DDT	249329	0.0941047	0.0941047	0.10000	94.1
10.36	Endrin aldehyde	4880	0.0022447	0.0022447	0.05000	4.5
10.76	Endosulfan sulfate	694	0.0002976	0.0002976	0.00000	------
11.02	Methoxychlor	282537	0.2348740	0.2348740	0.25000	93.9
11.36	Endrin ketone	5529	0.0019394	0.0019394	0.05000	3.9
12.62	Decachlorobiphenyl	47174	0.0206710	0.0206710	0.02000	103.4
			0.4552023			807.6

06/20/2015 09:27:06 Result: \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619B_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 %
8.85	4,4'-DDE	986	0.0003079	0.0003079	0.10000	0.3
9.71	4,4'-DDD	6010	0.0023721	0.0023721	0.10000	2.4
			0.0026799			2.7

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 %
10.36	Endrin aldehyde	4880	0.0022447	0.0022447	0.05000	4.5
11.36	Endrin ketone	5529	0.0019394	0.0019394	0.05000	3.9
			0.0041841			8.4

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:27:48
Operator	: sagers	Sample Name	: INDC3C2
Sample Number	: 037	Study	: 28313
AutoSampler	: HP7673A	Rack/Vial	: 0/37
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	: 06/20/2015 00:36:11	Dilution Factor	: 1.00
		Cycle	: 37

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Proc Method : \\Alsltws012\TCCS\sagers\GCE31\31150619\31_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619B_037.rst
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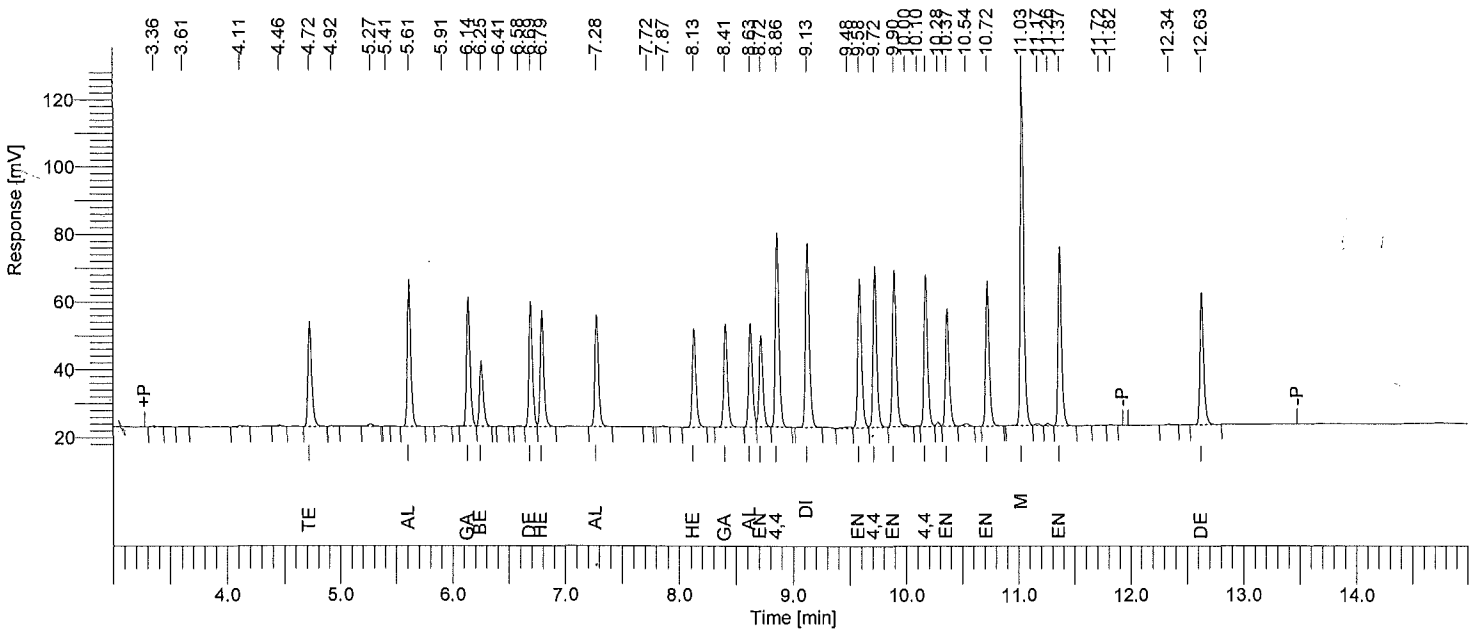

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.72	Tetrachloro-m-xylene	70615	0.0198334	0.0198334	0.0200000	99.2
5.61	alpha-BHC	91777	0.0204053	0.0204053	0.0200000	102.0
6.14	gamma-BHC	82386	0.0201680	0.0201680	0.0200000	100.8
6.25	beta-BHC	43396	0.0198912	0.0198912	0.0200000	99.5
6.69	delta-BHC	79608	0.0206971	0.0206971	0.0200000	103.5
6.79	Heptachlor	75236	0.0200983	0.0200983	0.0200000	100.5
7.28	Aldrin	73143	0.0203697	0.0203697	0.0200000	101.8
8.13	Heptachlor epoxide	66608	0.0207439	0.0207439	0.0200000	103.7
8.41	gamma-Chlordane	69927	0.0203061	0.0203061	0.0200000	101.5
8.63	alpha-Chlordane	69708	0.0202462	0.0202462	0.0200000	101.2
8.72	Endosulfan I	62285	0.0203322	0.0203322	0.0200000	101.7
8.86	4,4'-DDE	128438	0.0400975	0.0400975	0.0400000	100.2
9.13	Dieldrin	128563	0.0402430	0.0402430	0.0400000	100.6
9.58	Endrin	103470	0.0378733	0.0378733	0.0400000	94.7
9.72	4,4'-DDD	107896	0.0425850	0.0425850	0.0400000	106.5
9.90	Endosulfan II	108157	0.0406117	0.0406117	0.0400000	101.5
10.17	4,4'-DDT	98191	0.0370605	0.0370605	0.0400000	92.7
10.37	Endrin aldehyde	80307	0.0369433	0.0369433	0.0400000	92.4
10.72	Endosulfan sulfate	94224	0.0403837	0.0403837	0.0400000	101.0
11.03	Methoxychlor	221866	0.1844381	0.1844381	0.2000000	92.2
11.37	Endrin ketone	115218	0.0404155	0.0404155	0.0400000	101.0
12.63	Decachlorobiphenyl	88839	0.0389282	0.0389282	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	: 06/20/2015 09:28:12
Operator	: sagers	Sample Name	: PEMD2
Sample Number	: 048	Study	: 28317
AutoSampler	: HP7673A	Rack/Vial	: 0/48
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	: 06/20/2015 04:19:20	Dilution Factor	: 1.00
		Cycle	: 48

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Calib Method : \\Alsltws012\TCCS\sagers\GCE31\31150619\31_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619B_048.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE31\31150618\31_RPT_2UL\31_som_pem_b.rpt
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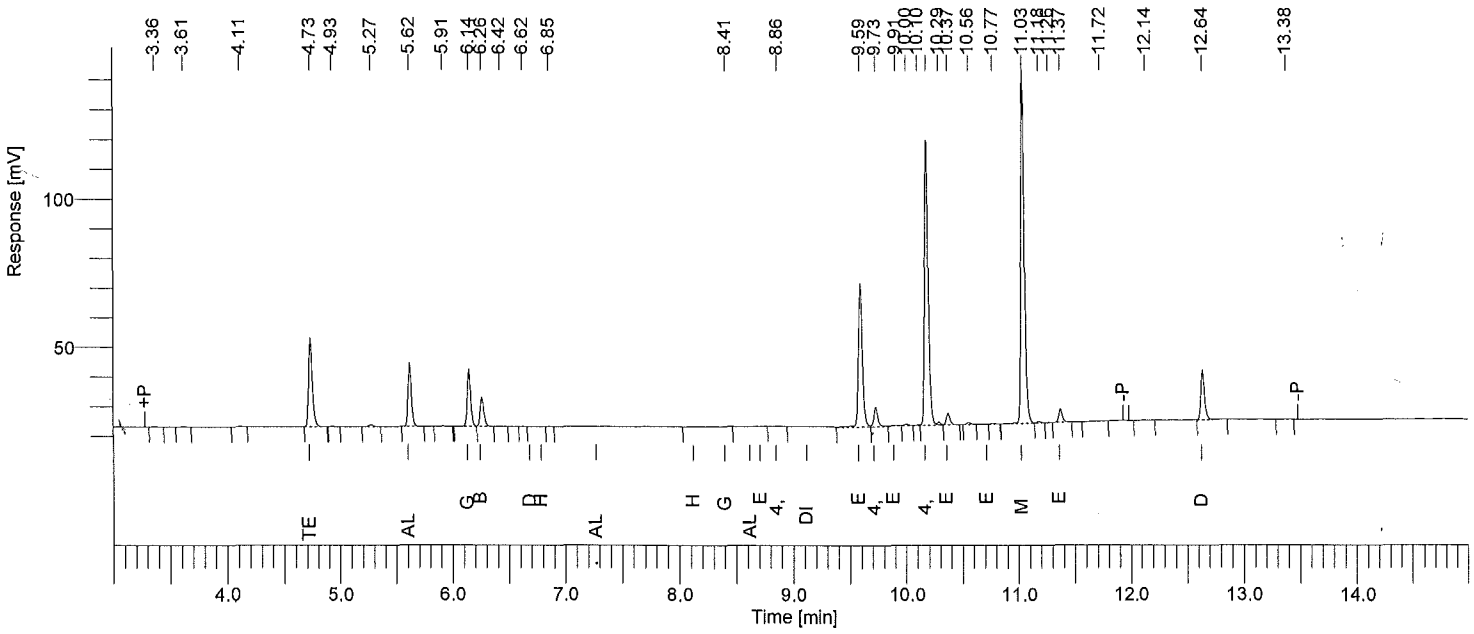

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.73	Tetrachloro-m-xylene	67406	0.0189323	0.0189323	0.02000	94.7
5.62	alpha-BHC	43442	0.0096586	0.0096586	0.01000	96.6
6.14	gamma-BHC	40726	0.0099698	0.0099698	0.01000	99.7
6.26	beta-BHC	22554	0.0103380	0.0103380	0.01000	103.4
6.68	delta-BHC	0	0.0000000	0.0000000	----------	------
6.78	Heptachlor	0	0.0000000	0.0000000	----------	------
7.27	Aldrin	0	0.0000000	0.0000000	----------	------
8.12	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
8.41	gamma-Chlordane	1600	0.0004645	0.0004645	0.00000	------
8.61	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
8.70	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.86	4,4'-DDE	646	0.0002017	0.0002017	0.10000	0.2
9.11	Dieldrin	0	0.0000000	0.0000000	----------	------
9.59	Endrin	116885	0.0427837	0.0427837	0.05000	85.6
9.73	4,4'-DDD	15914	0.0062809	0.0062809	0.10000	6.3
9.91	Endosulfan II	1291	0.0004847	0.0004847	0.00000	------
10.18	4,4'-DDT	214485	0.0809536	0.0809536	0.10000	81.0
10.37	Endrin aldehyde	9141	0.0042052	0.0042052	0.05000	8.4
10.77	Endosulfan sulfate	692	0.0002967	0.0002967	0.00000	------
11.03	Methoxychlor	252147	0.2096108	0.2096108	0.25000	83.8
11.37	Endrin ketone	9492	0.0033297	0.0033297	0.05000	6.7
12.64	Decachlorobiphenyl	39011	0.0170940	0.0170940	0.02000	85.5
			0.4146041			751.7

06/20/2015 09:28:12 Result: \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619B_048.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 %
8.86	4,4'-DDE	646	0.0002017	0.0002017	0.10000	0.2
9.73	4,4'-DDD	15914	0.0062809	0.0062809	0.10000	6.3
			0.0064827			6.5

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 %
10.37	Endrin aldehyde	9141	0.0042052	0.0042052	0.05000	8.4
11.37	Endrin ketone	9492	0.0033297	0.0033297	0.05000	6.7
			0.0075348			15.1

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

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.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450194

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31150619A018,31150619B018

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/19/2015

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	0.056	J
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	0.024	JP
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	0.050	JP
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	0.055	JP
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	0.090	JP
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	0.19	JP
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	: 06/20/2015 09:25:23
Operator	: sagers	Sample Name	: 450194
Sample Number	: 018	Study	: PBLKS1
AutoSampler	: HP7673A	Rack/Vial	: 0/18
Instrument Name	: GCE31	Channel	: A
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/19/2015 17:49:53	Cycle	: 2

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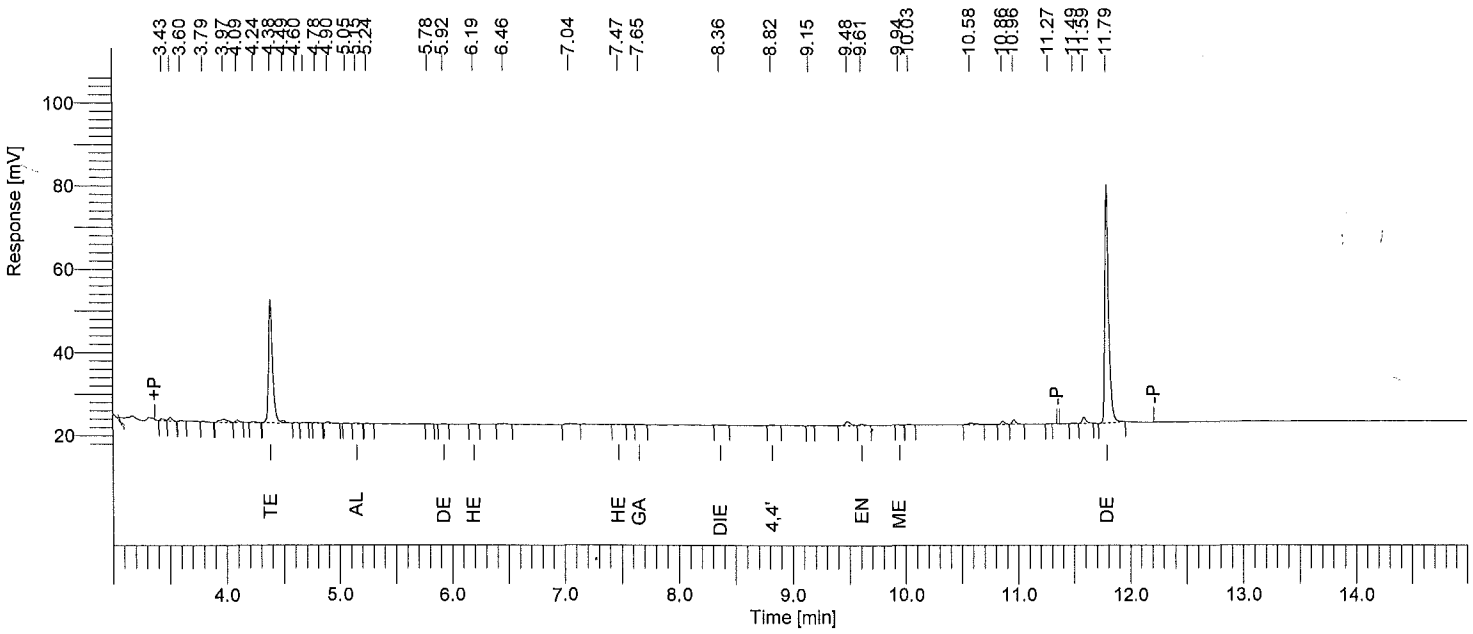
Calib Method : \\Alsltws012\TCCS\sagers\GCE31\31150619\31_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619A_018.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE31\31150618\31_RPT_2UL\31_som_soil_sample_a.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619_SOM012_PEST_F9M21_A.seq



Instrument ID: GC31A 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 %
4.38	Tetrachloro-m-xylene	72775	0.03309633	1	10	0.03000	1.000	1.6667	11.03211	20.00	55.2
5.15	alpha-BHC	470	1.6914e-04	1	10	0.03000	1.000	1.6667	0.05638	0.00	------
5.56	gamma-BHC	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
5.67	beta-BHC	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
5.92	delta-BHC	181	7.2289e-05	1	10	0.03000	1.000	1.6667	0.02410	0.00	------
6.19	Heptachlor	339	1.4003e-04	1	10	0.03000	1.000	1.6667	0.04668	0.00	------
6.63	Aldrin	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
7.47	Heptachlor epoxide	333	1.5078e-04	1	10	0.03000	1.000	1.6667	0.05026	0.00	------
7.65	gamma-Chlordane	388	1.6181e-04	1	10	0.03000	1.000	1.6667	0.05394	0.00	------
7.86	alpha-Chlordane	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
7.97	4,4'-DDE	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
8.06	Endosulfan I	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
8.36	Dieldrin	370	1.6582e-04	1	10	0.03000	1.000	3.3333	0.05527	0.00	------
8.74	Endrin	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
8.82	4,4'-DDD	549	2.9046e-04	1	10	0.03000	1.000	3.3333	0.09682	0.00	------
9.06	Endosulfan II	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
9.23	4,4'-DDT	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
9.61	Endrin aldehyde	953	5.7940e-04	1	10	0.03000	1.000	3.3333	0.19313	0.00	------
9.94	Methoxychlor	239	2.6941e-04	1	10	0.03000	1.000	16.6667	0.08980	0.00	------
10.29	Endosulfan sulfate	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
10.65	Endrin ketone	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
11.79	Decachlorobiphenyl	132783	0.07818196	1	10	0.03000	1.000	3.3333	26.06065	40.00	65.2

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:27:08
Operator	: sagers	Sample Name	: 450194
Sample Number	: 018	Study	: PBLKS1
AutoSampler	: HP7673A	Rack/Vial	: 0/18
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 18:10:11	Dilution Factor	: 1.00
		Cycle	: 2

Raw Data File : \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619B_018.raw <Modified>
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Proc Method : \\Alsltws012\TCCS\sagers\GCE31\31150619\31_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619B_018.rst
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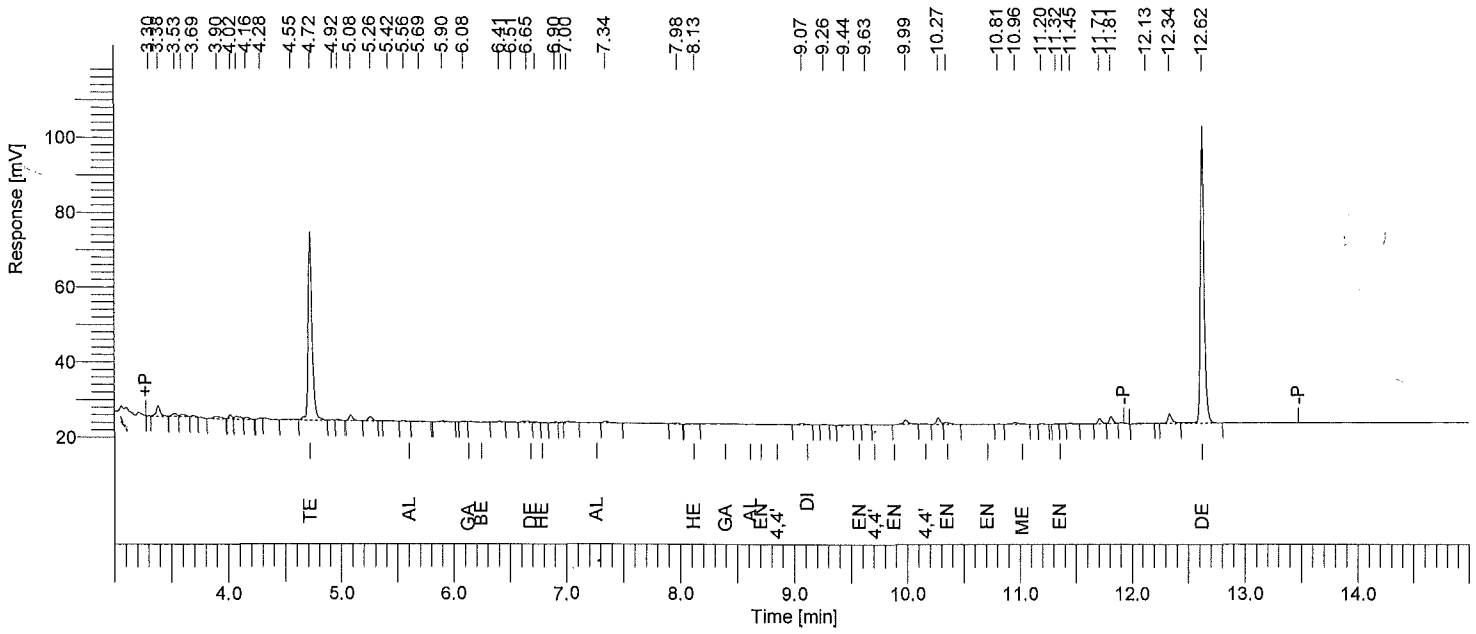

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.72	Tetrachloro-m-xylene	120935	0.03396687	1	10	0.03000	1.000	1.6667	11.32229	20.00	56.6
5.56	alpha-BHC	769	1.7108e-04	1	10	0.03000	1.000	1.6667	0.05703	0.00	------
6.08	gamma-BHC	444	1.0867e-04	1	10	0.03000	1.000	1.6667	0.03622	0.00	------
6.24	beta-BHC	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
6.65	delta-BHC	1831	4.7609e-04	1	10	0.03000	1.000	1.6667	0.15870	0.00	------
6.78	Heptachlor	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
7.27	Aldrin	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
8.13	Heptachlor epoxide	998	3.1075e-04	1	10	0.03000	1.000	1.6667	0.10358	0.00	------
8.39	gamma-Chlordane	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
8.61	alpha-Chlordane	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
8.70	Endosulfan I	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
8.85	4,4'-DDE	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
9.07	Dieldrin	985	3.0831e-04	1	10	0.03000	1.000	3.3333	0.10277	0.00	------
9.63	Endrin	267	9.7832e-05	1	10	0.03000	1.000	3.3333	0.03261	0.00	------
9.71	4,4'-DDD	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
9.88	Endosulfan II	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
10.16	4,4'-DDT	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
10.35	Endrin aldehyde	1929	8.8733e-04	1	10	0.03000	1.000	3.3333	0.29578	0.00	------
10.71	Endosulfan sulfate	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
10.96	Methoxychlor	2089	1.7367e-03	1	10	0.03000	1.000	16.6667	0.57889	0.00	------
11.38	Endrin ketone	312	1.0935e-04	1	10	0.03000	1.000	3.3333	0.03645	0.00	------
12.62	Decachlorobiphenyl	180889	0.07926377	1	10	0.03000	1.000	3.3333	26.42126	40.00	66.1

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKB1(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PIBLKB1

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31150619A016

% 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	0.0015	JP
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	: 06/20/2015 09:25:19
Operator	: sagers	Sample Name	: PIBLKB1
Sample Number	: 016	Study	: 28316
AutoSampler	: HP7673A	Rack/Vial	: 0/16
Instrument Name	: GCE31	Channel	: A
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/19/2015 17:08:59	Cycle	: 15

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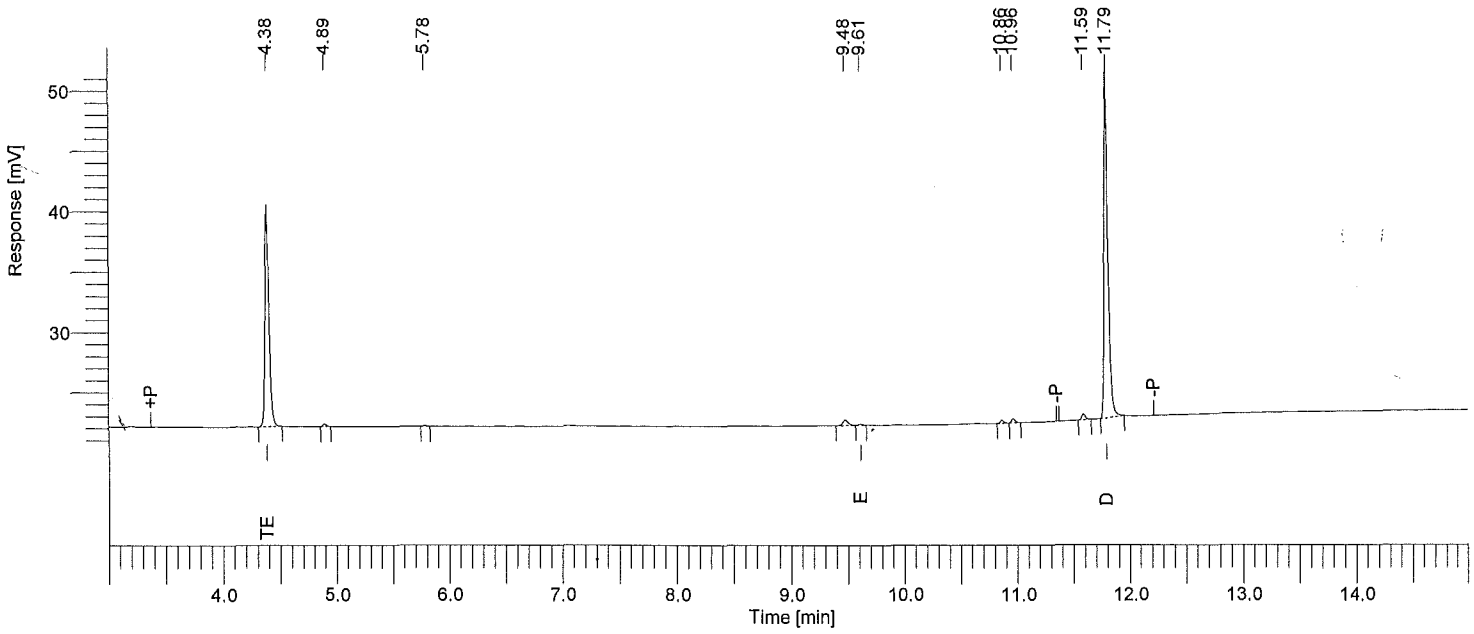

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

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 %
4.38	Tetrachloro-m-xylene	45070	0.020497	1	10	1.000	1.000	0.050000	0.204967	0.2000	102.5
5.12	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.56	gamma-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.67	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.92	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.21	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	--------	-----
7.49	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.67	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	--------	-----
7.97	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.06	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.40	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.74	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.83	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.06	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.23	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.61	Endrin aldehyde	241	1.47e-04	1	10	1.000	1.000	0.100000	0.001466	0.0000	-----
9.94	Methoxychlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.29	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.65	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.79	Decachlorobiphenyl	67421	0.039697	1	10	1.000	1.000	0.100000	0.396971	0.4000	99.2

All analytes <CRQL.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKB2(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M21

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PIBLKB2

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31150619B016

% 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	0.0033	JP
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	: 06/20/2015 09:27:04
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/19/2015 17:29:33	Cycle	: 16

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Proc Method : \\Alsltws012\TCCS\sagers\GCE31\31150619\31_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619B_016.rst
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Report Format File: \\Alsltws012\TCCS\sagers\GCE31\31150618\31_RPT_2UL\31_som12_inst blk_b.rpt
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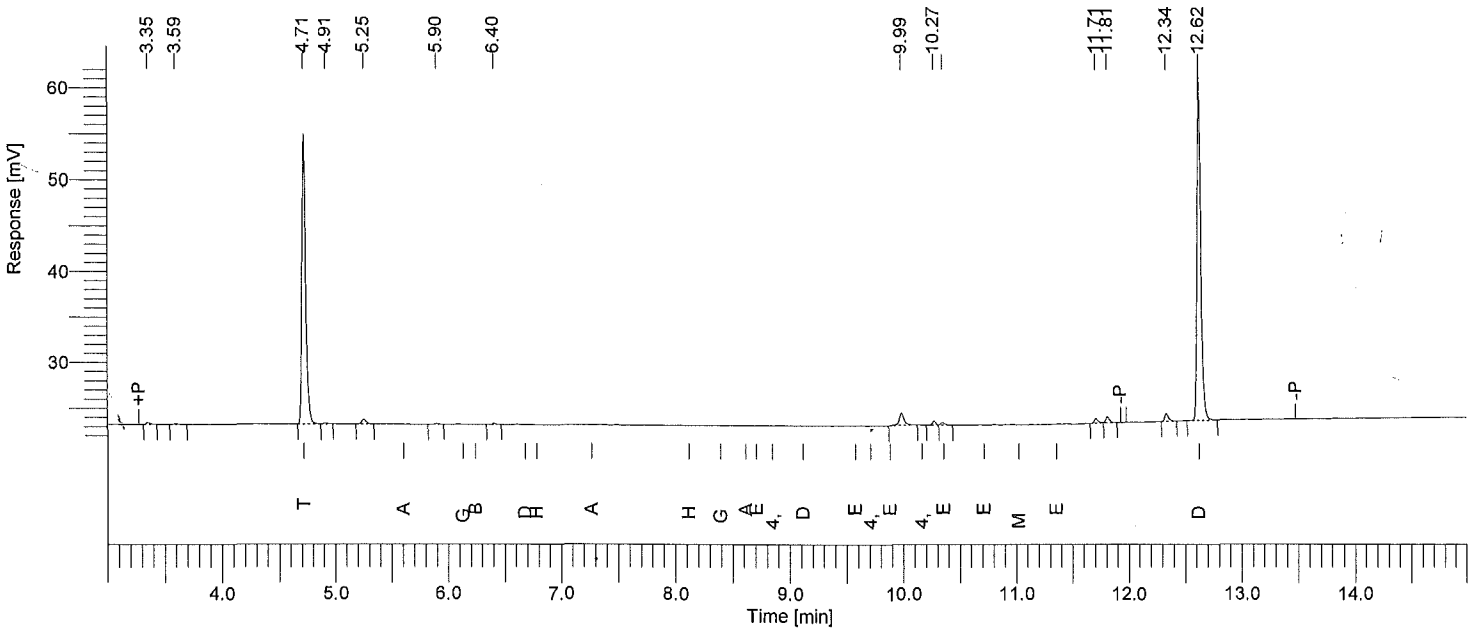

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

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 %
4.71	Tetrachloro-m-xylene	73121	0.020537	1	10	1.000	1.000	0.050000	0.205375	0.2000	102.7
5.60	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.13	gamma-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.24	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.68	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.78	Heptachlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.27	Aldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.12	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.39	gamma-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.61	alpha-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.70	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.85	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.11	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.57	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.71	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.88	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.16	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.35	Endrin aldehyde	719	3.31e-04	1	10	1.000	1.000	0.100000	0.003306	0.0000	-----
10.71	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.02	Methoxychlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.35	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
12.62	Decachlorobiphenyl	88272	0.038680	1	10	1.000	1.000	0.100000	0.386798	0.4000	96.7

All analytes <CRQL.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKC1(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M21

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PIBLKC1

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31150619A036

% 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	0.0020	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	: 06/20/2015 09:26:02
Operator	: sagers	Sample Name	: PIBLKC1
Sample Number	: 036	Study	: 28316
AutoSampler	: HP7673A	Rack/Vial	: 0/36
Instrument Name	: GCE31	Channel	: A
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 23:55:33	Dilution Factor	: 1.00
		Cycle	: 35

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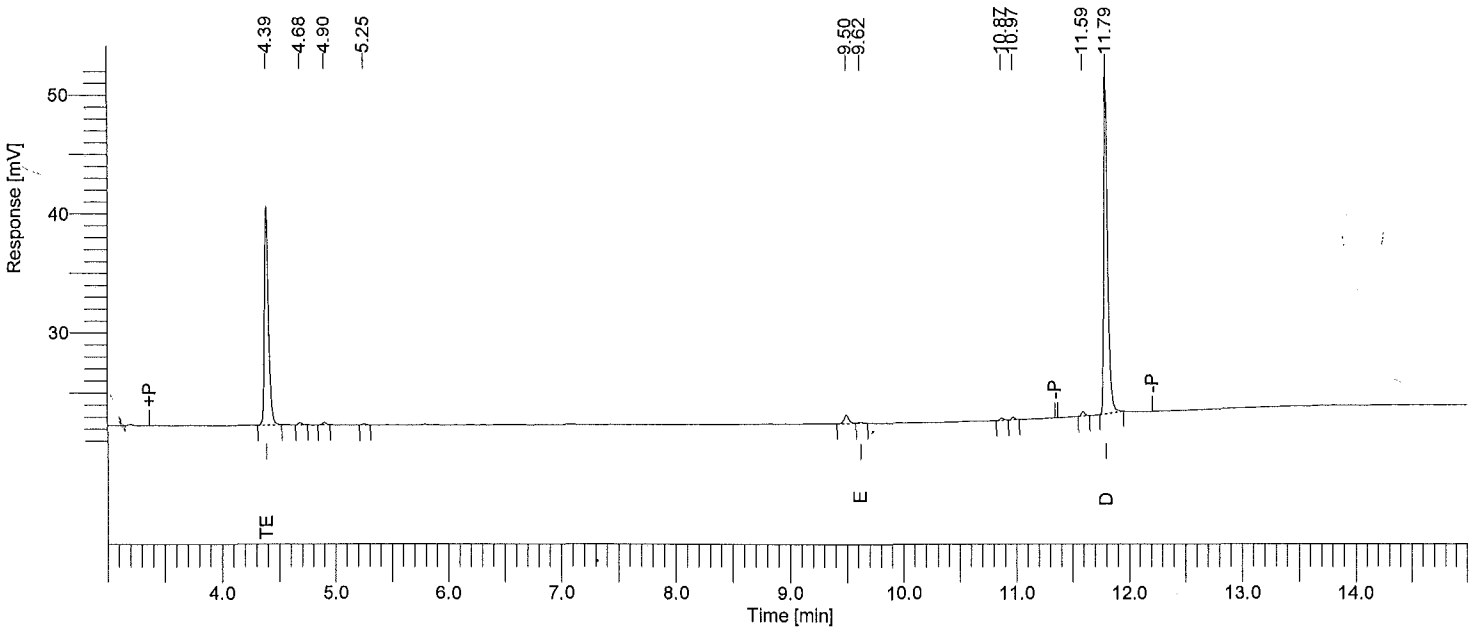

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

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 %
4.39	Tetrachloro-m-xylene	44037	0.020027	1	10	1.000	1.000	0.050000	0.200268	0.2000	100.1
5.12	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.56	gamma-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.67	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.92	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.21	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	--------	-----
7.49	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.67	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	--------	-----
7.97	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.06	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.40	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.74	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.83	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.06	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.23	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.62	Endrin aldehyde	331	2.01e-04	1	10	1.000	1.000	0.100000	0.002010	0.0000	-----
9.94	Methoxychlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.29	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.65	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.79	Decachlorobiphenyl	66966	0.039429	1	10	1.000	1.000	0.100000	0.394292	0.4000	98.6

All analytes <CRQL.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKC2(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PIBLKC2

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31150619B036

% Moisture: 0.0 Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 06/20/2015

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)	0.00062	J
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	: 06/20/2015 09:27:46
Operator	: sagers	Sample Name	: PIBLKC2
Sample Number	: 036	Study	: 28316
AutoSampler	: HP7673A	Rack/Vial	: 0/36
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	: 06/20/2015 00:16:01	Dilution Factor	: 1.00
		Cycle	: 36

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Proc Method : \\Alsltws012\TCCS\sagers\GCE31\31150619\31_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619B_036.rst
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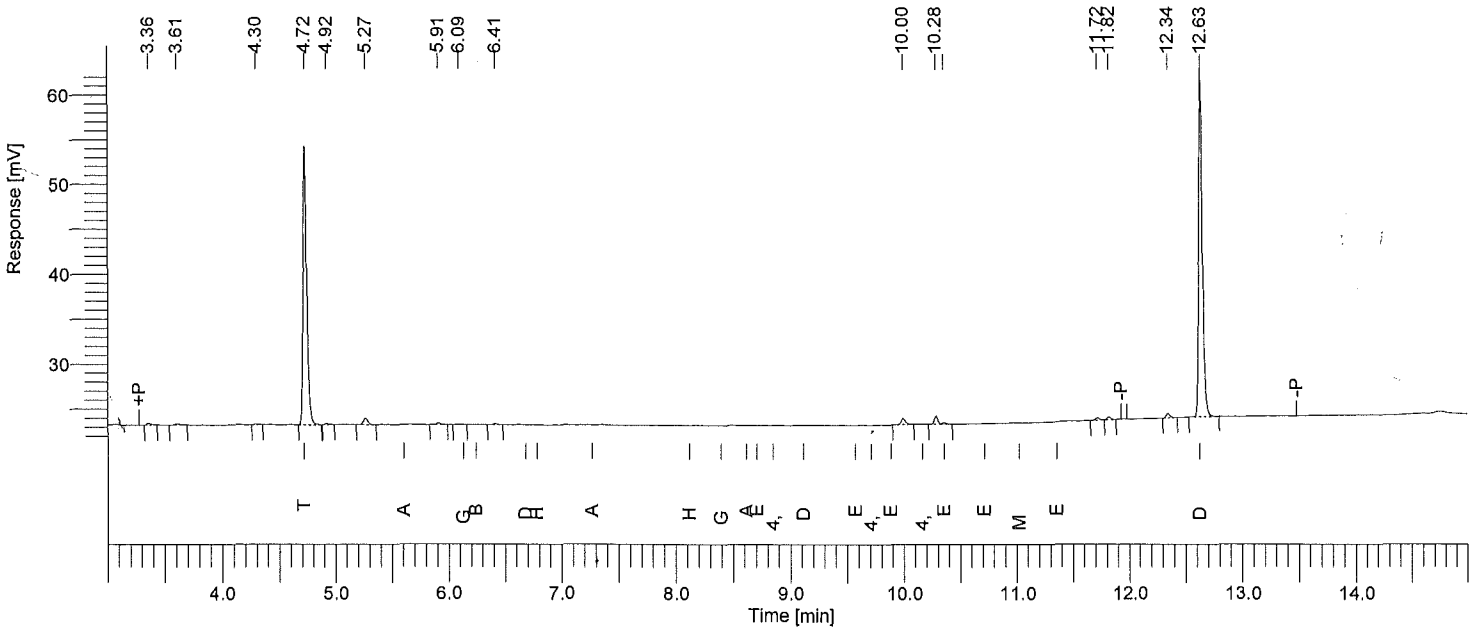

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

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 %
4.72	Tetrachloro-m-xylene	71315	0.020030	1	10	1.000	1.000	0.050000	0.200301	0.2000	100.2
5.60	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.09	gamma-BHC	252	6.17e-05	1	10	1.000	1.000	0.050000	0.000617	0.0000	-----
6.24	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.68	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.78	Heptachlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.27	Aldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.12	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.39	gamma-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.61	alpha-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.70	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.85	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.11	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.57	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.71	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.88	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.16	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.35	Endrin aldehyde	404	1.86e-04	1	10	1.000	1.000	0.100000	0.001858	0.0000	-----
10.71	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.02	Methoxychlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.35	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
12.63	Decachlorobiphenyl	88135	0.038620	1	10	1.000	1.000	0.100000	0.386200	0.4000	96.6

All analytes <CRQL.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKD1(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PIBLKD1

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31150619A047

% Moisture: 0.0 Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 06/20/2015

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	0.0017	JP
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	: 06/20/2015 09:26:26
Operator	: sagers	Sample Name	: PIBLKD1
Sample Number	: 047	Study	: 28316
AutoSampler	: HP7673A	Rack/Vial	: 0/47
Instrument Name	: GCE31	Channel	: A
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/20/2015 03:38:32	Cycle	: 46

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Proc Method : \\Alsltws012\TCCS\sagers\GCE31\31150619\31_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE31\31150619\31150619A_047.rst
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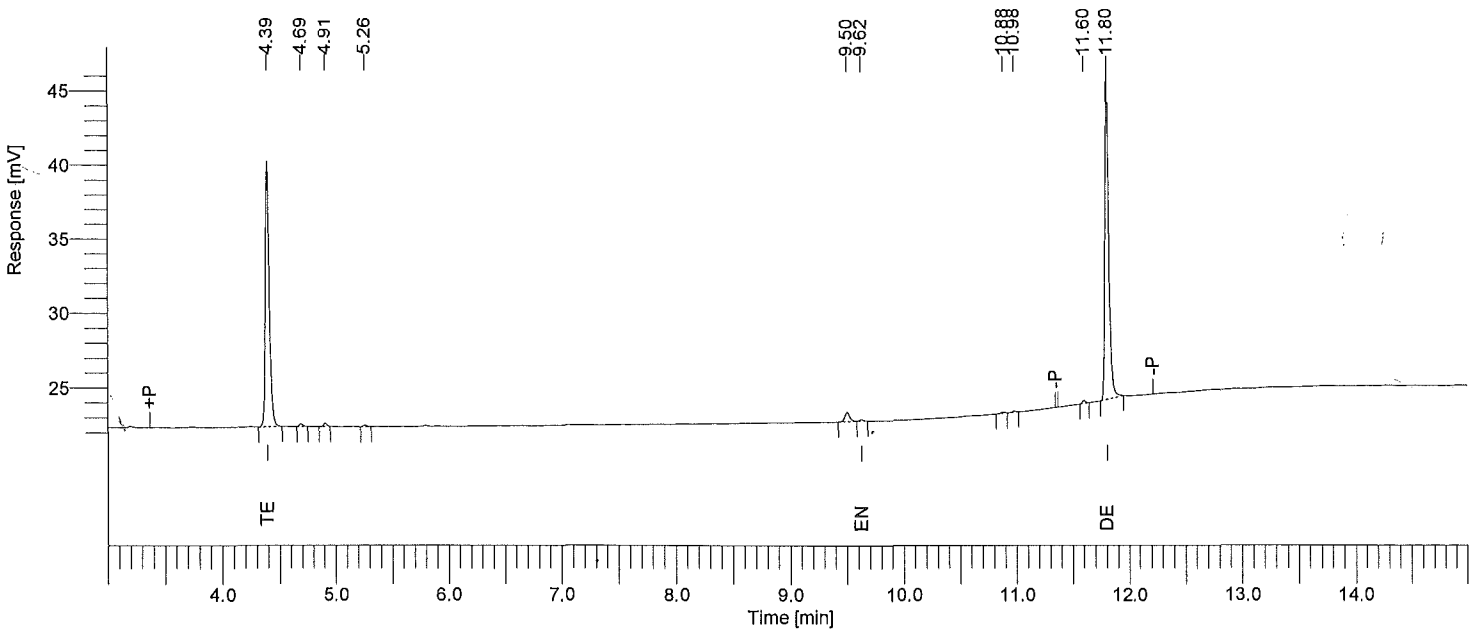

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

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 %
4.39	Tetrachloro-m-xylene	42630	0.019387	1	10	1.000	1.000	0.050000	0.193872	0.2000	96.9
5.12	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.56	gamma-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.67	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.92	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.21	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	--------	-----
7.49	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.67	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	--------	-----
7.97	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.06	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.40	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.74	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.83	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.06	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.23	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.62	Endrin aldehyde	287	1.74e-04	1	10	1.000	1.000	0.100000	0.001743	0.0000	-----
9.94	Methoxychlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.29	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.65	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.80	Decachlorobiphenyl	51084	0.030078	1	10	1.000	1.000	0.100000	0.300780	0.4000	75.2

All analytes <CRQL.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKD2(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PIBLKD2

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 31150619B047

% Moisture: 0.0 Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 06/20/2015

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)	0.00054	J
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	0.0013	JP
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	: 06/20/2015 09:28:10
Operator	: sagers	Sample Name	: PIBLKD2
Sample Number	: 047	Study	: 28316
AutoSampler	: HP7673A	Rack/Vial	: 0/47
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/20/2015 03:58:56	Cycle	: 47

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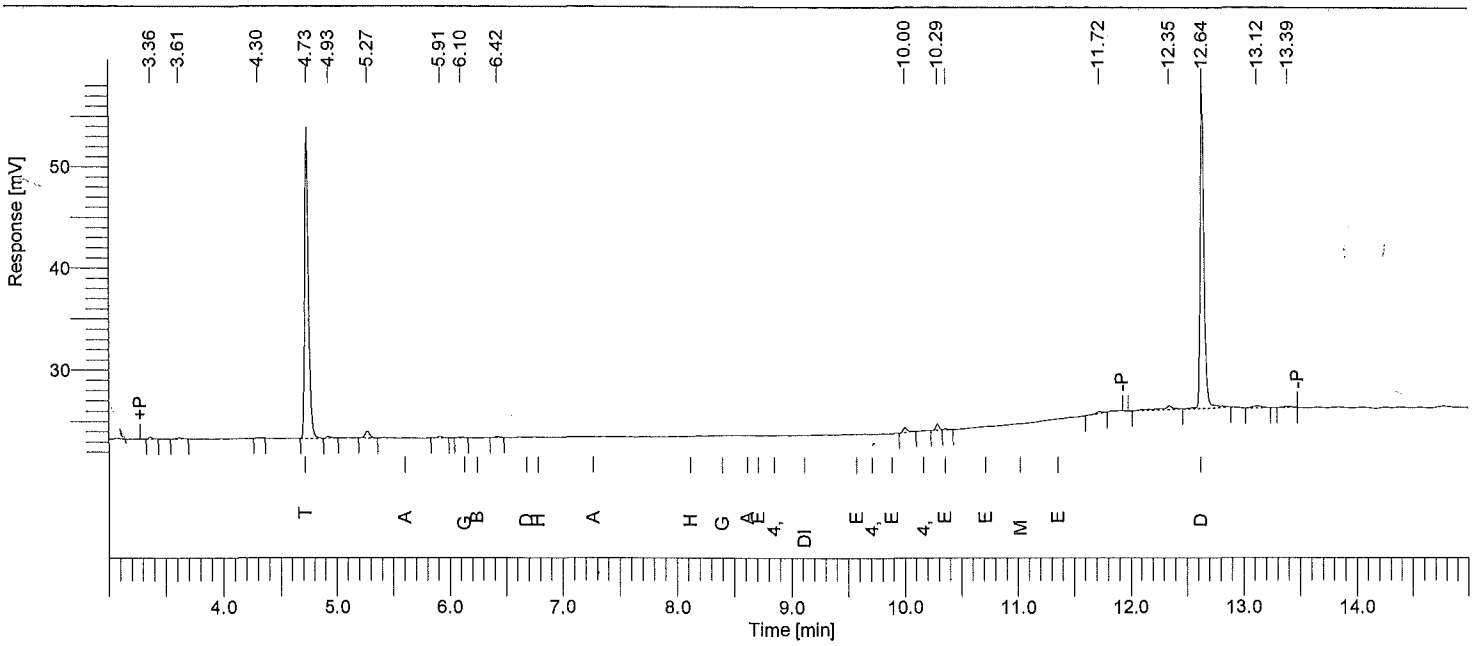

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

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 %
4.73	Tetrachloro-m-xylene	69376	0.019486	1	10	1.000	1.000	0.050000	0.194856	0.2000	97.4
5.60	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.10	gamma-BHC	221	5.40e-05	1	10	1.000	1.000	0.050000	0.000540	0.0000	-----
6.24	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.68	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.78	Heptachlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.27	Aldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.12	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.39	gamma-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.61	alpha-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.70	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.85	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.11	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.57	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.71	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.88	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.16	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.36	Endrin aldehyde	277	1.27e-04	1	10	1.000	1.000	0.100000	0.001273	0.0000	-----
10.71	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.02	Methoxychlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.35	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
12.64	Decachlorobiphenyl	75592	0.033124	1	10	1.000	1.000	0.100000	0.331235	0.4000	82.8

All analytes <CRQL.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M27MS(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542008

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 31150619A021

% Moisture: 19. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/19/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.087	JBP
319-85-7	beta-BHC	2.7	
319-86-8	delta-BHC	0.24	JBP
58-89-9	gamma-BHC (Lindane)	17.	
76-44-8	Heptachlor	17.	
309-00-2	Aldrin	17.	
1024-57-3	Heptachlor epoxide	0.58	JBP
959-98-8	Endosulfan I	0.079	J
60-57-1	Dieldrin	31.	B
72-55-9	4,4'-DDE	0.17	JP
72-20-8	Endrin	35.	
33213-65-9	Endosulfan II	0.070	JP
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	0.50	J
50-29-3	4,4'-DDT	35.	
72-43-5	Methoxychlor	21.	U
53494-70-5	Endrin ketone	3.0	J
7421-93-4	Endrin aldehyde	3.0	JBP
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	0.067	JP
8001-35-2	Toxaphene	210	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:25:29
Operator	: sagers	Sample Name	: 1515542008
Sample Number	: 021	Study	: F9M27MS
AutoSampler	: HP7673A	Rack/Vial	: 0/21
Instrument Name	: GCE31	Channel	: A
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 18:50:59	Dilution Factor	: 1.00
		Cycle	: 5

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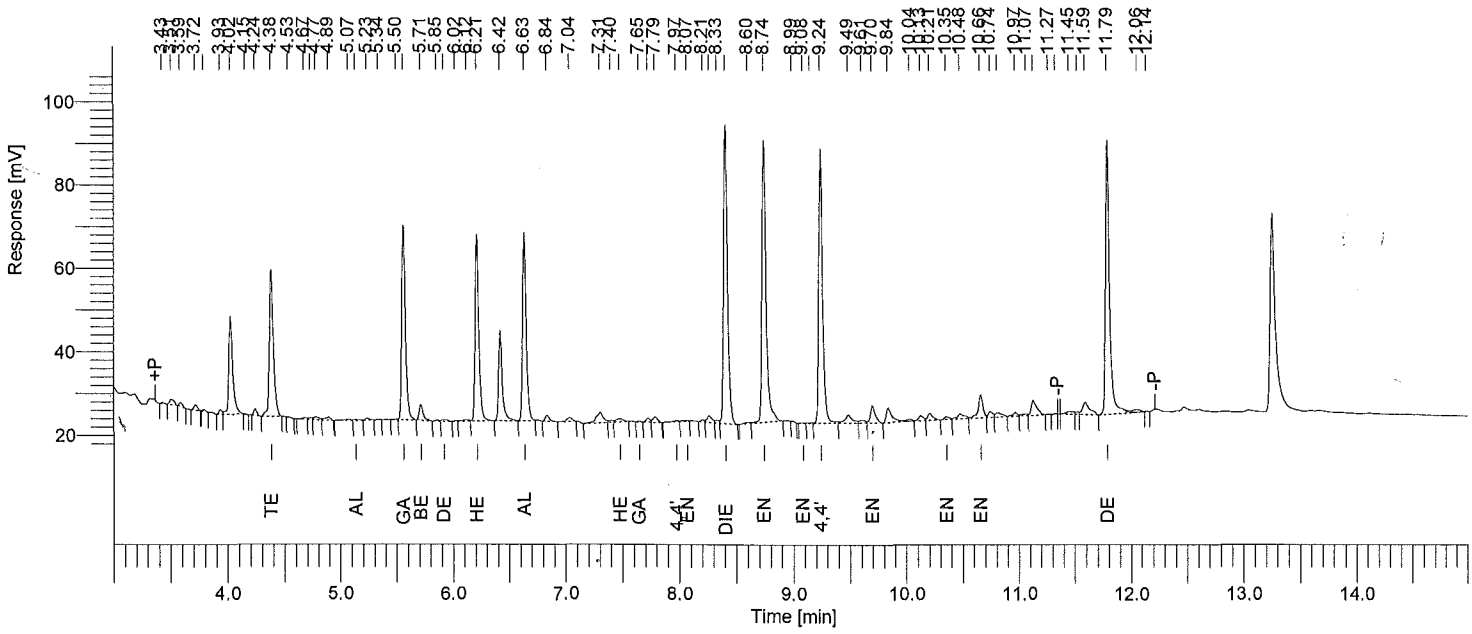

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.38	Tetrachloro-m-xylene	88761	0.04036635	1	10	0.03010	0.997	1.6611	13.41075	19.93	67.3
5.14	alpha-BHC	589	2.1196e-04	1	10	0.03010	0.997	1.6611	0.07042	0.00	------
5.56	gamma-BHC	105817	0.04078342	1	10	0.03010	0.997	1.6611	13.54931	0.00	------
5.71	beta-BHC	9247	6.5555e-03	1	10	0.03010	0.997	1.6611	2.17790	0.00	------
5.92	delta-BHC	1467	5.8523e-04	1	10	0.03010	0.997	1.6611	0.19443	0.00	------
6.21	Heptachlor	102019	0.04212837	1	10	0.03010	0.997	1.6611	13.99614	0.00	------
6.63	Aldrin	101811	0.04228268	1	10	0.03010	0.997	1.6611	14.04740	0.00	------
7.48	Heptachlor epoxide	3114	1.4106e-03	1	10	0.03010	0.997	1.6611	0.46864	0.00	------
7.65	gamma-Chlordane	389	1.6231e-04	1	10	0.03010	0.997	1.6611	0.05392	0.00	------
7.86	alpha-Chlordane	0	0.00000000	1	10	0.03010	0.997	----------	0.00000	--------	------
7.97	4,4'-DDE	952	4.1914e-04	1	10	0.03010	0.997	3.3223	0.13925	0.00	------
8.07	Endosulfan I	440	1.9246e-04	1	10	0.03010	0.997	1.6611	0.06394	0.00	------
8.41	Dieldrin	169642	0.07600197	1	10	0.03010	0.997	3.3223	25.24983	0.00	------
8.74	Endrin	171062	0.08420550	1	10	0.03010	0.997	3.3223	27.97525	0.00	------
8.83	4,4'-DDD	0	0.00000000	1	10	0.03010	0.997	----------	0.00000	--------	------
9.08	Endosulfan II	329	1.6969e-04	1	10	0.03010	0.997	3.3223	0.05638	0.00	------
9.24	4,4'-DDT	155840	0.08413959	1	10	0.03010	0.997	3.3223	27.95335	0.00	------
9.70	Endrin aldehyde	12132	7.3723e-03	1	10	0.03010	0.997	3.3223	2.44926	0.00	------
9.94	Methoxychlor	0	0.00000000	1	10	0.03010	0.997	----------	0.00000	--------	------
10.35	Endosulfan sulfate	2083	1.2230e-03	1	10	0.03010	0.997	3.3223	0.40632	0.00	------
10.66	Endrin ketone	16166	7.2744e-03	1	10	0.03010	0.997	3.3223	2.41676	0.00	------
11.79	Decachlorobiphenyl	161296	0.09497050	1	10	0.03010	0.997	3.3223	31.55166	39.87	79.1

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M27MS(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542008

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 31150619B021

% Moisture: 19. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/19/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.19	JBP
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	1.1	JBP
58-89-9	gamma-BHC (Lindane)	16.	
76-44-8	Heptachlor	17.	
309-00-2	Aldrin	15.	
1024-57-3	Heptachlor epoxide	0.91	JBP
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	34.	B
72-55-9	4,4'-DDE	5.9	P
72-20-8	Endrin	34.	
33213-65-9	Endosulfan II	0.46	JP
72-54-8	4,4'-DDD	0.86	J
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	32.	
72-43-5	Methoxychlor	4.3	JB
53494-70-5	Endrin ketone	3.3	J
7421-93-4	Endrin aldehyde	1.3	JBP
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	3.2	P
8001-35-2	Toxaphene	210	U

Software Version	: 6.3.1.0504	Date	: 06/21/2015 12:01:24
Reprocess Number	: nasltw7087: 2218576		
Operator	: sagers		
Sample Number	: 021	Sample Name	: 1515542008
AutoSampler	: HP7673A	Study	: F9M27MS
Instrument Name	: GCE31	Rack/Vial	: 0/21
Instrument Serial #	: None	Channel	: B
Delay Time	: 0.00 min	A/D mV Range	: 1000
Sampling Rate	: 5.0000 pts/s	End Time	: 16.40 min
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 19:11:17	Dilution Factor	: 1.00
		Cycle	: 2

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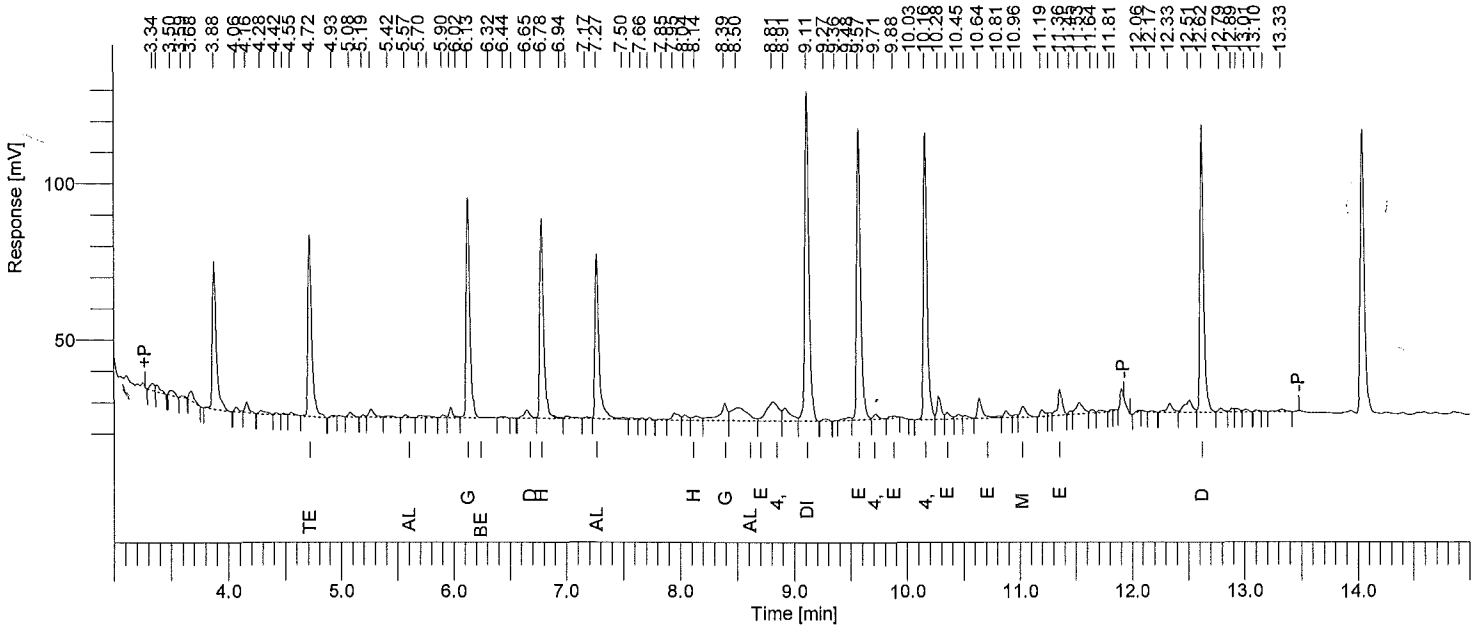

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.72	Tetrachloro-m-xylene	140198	0.03937712	1	10	0.03010	0.997	1.6611	13.08210	19.93	65.6
5.57	alpha-BHC	2052	4.5627e-04	1	10	0.03010	0.997	1.6611	0.15158	0.00	------
6.13	gamma-BHC	160151	0.03920465	1	10	0.03010	0.997	1.6611	13.02480	0.00	------
6.24	beta-BHC	0	0.00000000	1	10	0.03010	0.997	---------	0.00000	--------	------
6.65	delta-BHC	9929	2.5814e-03	1	10	0.03010	0.997	1.6611	0.85761	0.00	------
6.78	Heptachlor	152116	0.04063608	1	10	0.03010	0.997	1.6611	13.50036	0.00	------
7.27	Aldrin	130933	0.03646367	1	10	0.03010	0.997	1.6611	12.11418	0.00	------
8.14	Heptachlor epoxide	7083	2.2057e-03	1	10	0.03010	0.997	1.6611	0.73280	0.00	------
8.39	gamma-Chlordane	27126	7.8771e-03	1	10	0.03010	0.997	1.6611	2.61698	0.00	------
8.61	alpha-Chlordane	0	0.00000000	1	10	0.03010	0.997	---------	0.00000	--------	------
8.70	Endosulfan I	0	0.00000000	1	10	0.03010	0.997	---------	0.00000	--------	------
8.81	4,4'-DDE	45780	0.01429209	1	10	0.03010	0.997	3.3223	4.74820	0.00	------
9.11	Dieldrin	263171	0.08237819	1	10	0.03010	0.997	3.3223	27.36817	0.00	------
9.57	Endrin	226994	0.08308714	1	10	0.03010	0.997	3.3223	27.60370	0.00	------
9.71	4,4'-DDD	5318	2.0989e-03	1	10	0.03010	0.997	3.3223	0.69729	0.00	------
9.88	Endosulfan II	2979	1.1186e-03	1	10	0.03010	0.997	3.3223	0.37164	0.00	------
10.16	4,4'-DDT	206297	0.07786329	1	10	0.03010	0.997	3.3223	25.86820	0.00	------
10.35	Endrin aldehyde	6764	3.1116e-03	1	10	0.03010	0.997	3.3223	1.03374	0.00	------
10.71	Endosulfan sulfate	0	0.00000000	1	10	0.03010	0.997	---------	0.00000	--------	------
11.02	Methoxychlor	12565	0.01044527	1	10	0.03010	0.997	16.6113	3.47019	0.00	------
11.36	Endrin ketone	22652	7.9456e-03	1	10	0.03010	0.997	3.3223	2.63975	0.00	------
12.62	Decachlorobiphenyl	211435	0.09264851	1	10	0.03010	0.997	3.3223	30.78023	39.87	77.2

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M27MSD(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542009

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 31150619A022

% Moisture: 19. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/19/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.13	JBP
319-85-7	beta-BHC	13.	
319-86-8	delta-BHC	0.19	JBP
58-89-9	gamma-BHC (Lindane)	19.	
76-44-8	Heptachlor	20.	
309-00-2	Aldrin	20.	
1024-57-3	Heptachlor epoxide	0.46	JBP
959-98-8	Endosulfan I	0.089	J
60-57-1	Dieldrin	36.	B
72-55-9	4,4'-DDE	0.18	JP
72-20-8	Endrin	39.	
33213-65-9	Endosulfan II	0.12	JP
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	0.21	J
50-29-3	4,4'-DDT	39.	
72-43-5	Methoxychlor	21.	U
53494-70-5	Endrin ketone	2.7	J
7421-93-4	Endrin aldehyde	2.7	JBP
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	0.15	JP
8001-35-2	Toxaphene	210	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:25:32
Operator	: sagers	Sample Name	: 1515542009
Sample Number	: 022	Study	: F9M27MSD
AutoSampler	: HP7673A	Rack/Vial	: 0/22
Instrument Name	: GCE31	Channel	: A
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 19:11:17	Dilution Factor	: 1.00
		Cycle	: 6

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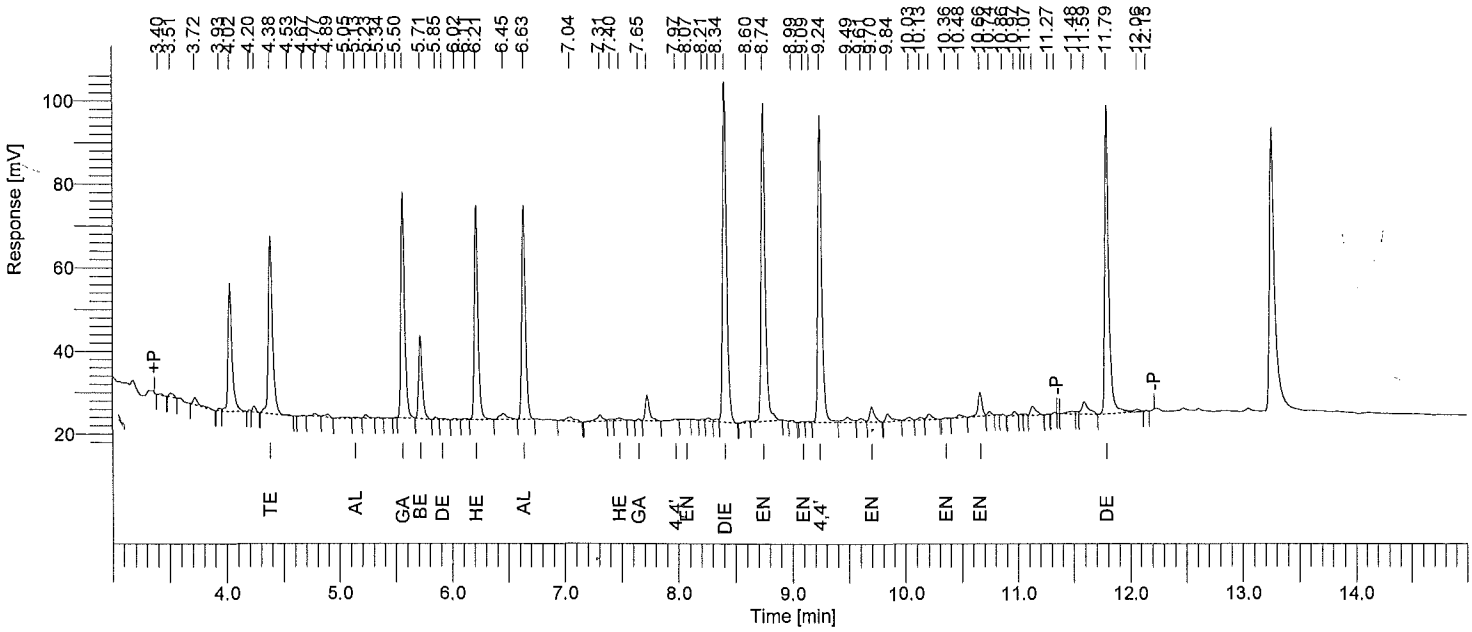

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.38	Tetrachloro-m-xylene	109432	0.04976699	1	10	0.03018	0.994	1.6567	16.49006	19.88	82.9
5.13	alpha-BHC	878	3.1601e-04	1	10	0.03018	0.994	1.6567	0.10471	0.00	------
5.56	gamma-BHC	122772	0.04731831	1	10	0.03018	0.994	1.6567	15.67870	0.00	------
5.71	beta-BHC	44445	0.03150855	1	10	0.03018	0.994	1.6567	10.44021	0.00	------
5.91	delta-BHC	1139	4.5426e-04	1	10	0.03018	0.994	1.6567	0.15052	0.00	------
6.21	Heptachlor	117051	0.04833591	1	10	0.03018	0.994	1.6567	16.01587	0.00	------
6.63	Aldrin	116449	0.04836182	1	10	0.03018	0.994	1.6567	16.02446	0.00	------
7.48	Heptachlor epoxide	2467	1.1172e-03	1	10	0.03018	0.994	1.6567	0.37018	0.00	------
7.65	gamma-Chlordane	902	3.7666e-04	1	10	0.03018	0.994	1.6567	0.12481	0.00	------
7.86	alpha-Chlordane	0	0.00000000	1	10	0.03018	0.994	----------	0.00000	--------	------
7.97	4,4'-DDE	1007	4.4349e-04	1	10	0.03018	0.994	3.3135	0.14695	0.00	------
8.07	Endosulfan I	494	2.1630e-04	1	10	0.03018	0.994	1.6567	0.07167	0.00	------
8.41	Dieldrin	194768	0.08725869	1	10	0.03018	0.994	3.3135	28.91275	0.00	------
8.74	Endrin	191013	0.09402647	1	10	0.03018	0.994	3.3135	31.15523	0.00	------
8.83	4,4'-DDD	0	0.00000000	1	10	0.03018	0.994	----------	0.00000	--------	------
9.09	Endosulfan II	553	2.8561e-04	1	10	0.03018	0.994	3.3135	0.09464	0.00	------
9.24	4,4'-DDT	175374	0.09468591	1	10	0.03018	0.994	3.3135	31.37373	0.00	------
9.70	Endrin aldehyde	10648	6.4706e-03	1	10	0.03018	0.994	3.3135	2.14400	0.00	------
9.94	Methoxychlor	0	0.00000000	1	10	0.03018	0.994	----------	0.00000	--------	------
10.36	Endosulfan sulfate	869	5.1037e-04	1	10	0.03018	0.994	3.3135	0.16911	0.00	------
10.66	Endrin ketone	14534	6.5399e-03	1	10	0.03018	0.994	3.3135	2.16695	0.00	------
11.79	Decachlorobiphenyl	176693	0.10403599	1	10	0.03018	0.994	3.3135	34.47183	39.76	86.7

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M27MSD(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542009

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 31150619B022

% Moisture: 19. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/19/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.19	JBP
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	0.75	JBP
58-89-9	gamma-BHC (Lindane)	19.	
76-44-8	Heptachlor	18.	
309-00-2	Aldrin	17.	
1024-57-3	Heptachlor epoxide	0.80	JBP
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	38.	B
72-55-9	4,4'-DDE	2.9	JP
72-20-8	Endrin	39.	
33213-65-9	Endosulfan II	1.7	JP
72-54-8	4,4'-DDD	1.6	J
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	36.	
72-43-5	Methoxychlor	3.3	JB
53494-70-5	Endrin ketone	3.1	J
7421-93-4	Endrin aldehyde	1.6	JBP
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	1.2	JP
8001-35-2	Toxaphene	210	U

Software Version	: 6.3.1.0504	Date	: 06/21/2015 12:01:33
Reprocess Number	: nasltw7087: 2218577		
Operator	: sagers		
Sample Number	: 022	Sample Name	: 1515542009
AutoSampler	: HP7673A	Study	: F9M27MSD
Instrument Name	: GCE31	Rack/Vial	: 0/22
Instrument Serial #	: None	Channel	: B
Delay Time	: 0.00 min	A/D mV Range	: 1000
Sampling Rate	: 5.0000 pts/s	End Time	: 16.40 min
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/19/2015 19:31:37	Dilution Factor	: 1.00
		Cycle	: 3

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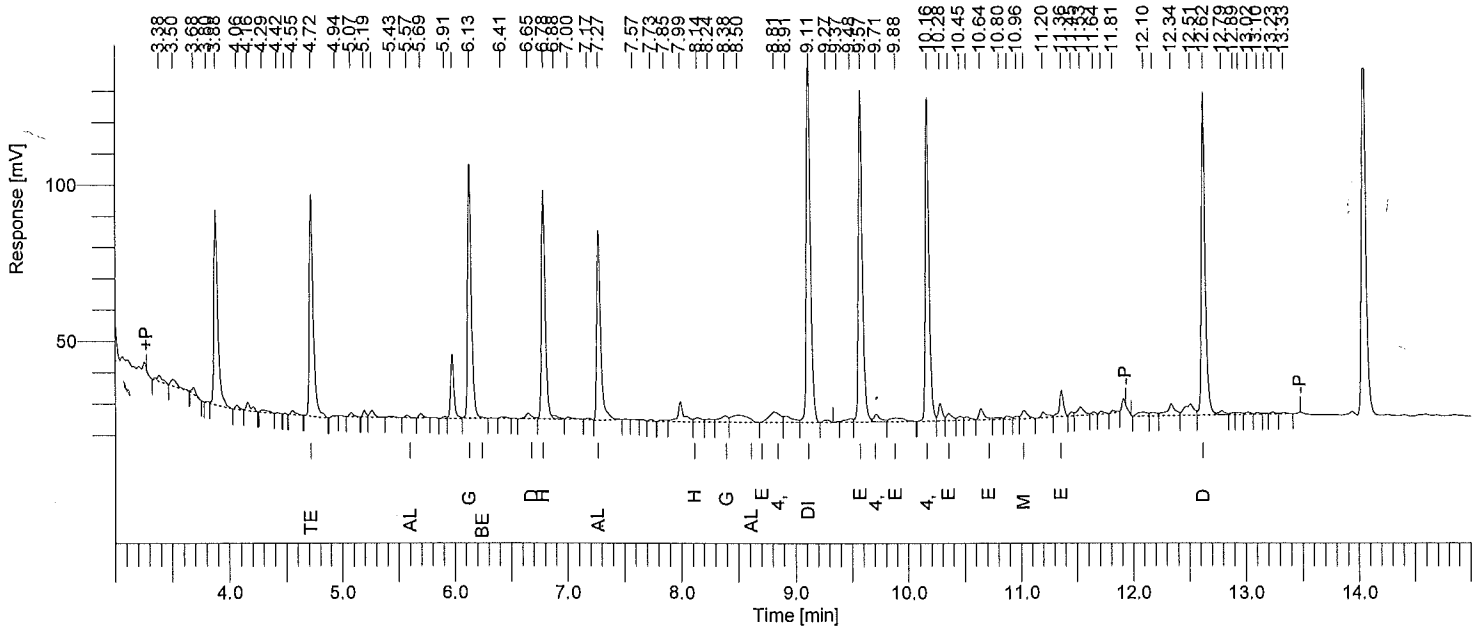

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.72	Tetrachloro-m-xylene	170600	0.04791616	1	10	0.03018	0.994	1.6567	15.87679	19.88	79.9
5.57	alpha-BHC	2053	4.5646e-04	1	10	0.03018	0.994	1.6567	0.15125	0.00	------
6.13	gamma-BHC	187015	0.04578110	1	10	0.03018	0.994	1.6567	15.16935	0.00	------
6.24	beta-BHC	0	0.00000000	1	10	0.03018	0.994	---------	0.00000	--------	------
6.65	delta-BHC	7042	1.8309e-03	1	10	0.03018	0.994	1.6567	0.60665	0.00	------
6.78	Heptachlor	166283	0.04442062	1	10	0.03018	0.994	1.6567	14.71856	0.00	------
7.27	Aldrin	147116	0.04097061	1	10	0.03018	0.994	1.6567	13.57542	0.00	------
8.14	Heptachlor epoxide	6238	1.9428e-03	1	10	0.03018	0.994	1.6567	0.64375	0.00	------
8.38	gamma-Chlordane	10414	3.0242e-03	1	10	0.03018	0.994	1.6567	1.00206	0.00	------
8.61	alpha-Chlordane	0	0.00000000	1	10	0.03018	0.994	---------	0.00000	--------	------
8.70	Endosulfan I	0	0.00000000	1	10	0.03018	0.994	---------	0.00000	--------	------
8.81	4,4'-DDE	22958	7.1674e-03	1	10	0.03018	0.994	3.3135	2.37487	0.00	------
9.11	Dieldrin	292199	0.09146438	1	10	0.03018	0.994	3.3135	30.30629	0.00	------
9.57	Endrin	259917	0.09513783	1	10	0.03018	0.994	3.3135	31.52347	0.00	------
9.71	4,4'-DDD	9649	3.8083e-03	1	10	0.03018	0.994	3.3135	1.26185	0.00	------
9.88	Endosulfan II	11139	4.1824e-03	1	10	0.03018	0.994	3.3135	1.38582	0.00	------
10.16	4,4'-DDT	232593	0.08778802	1	10	0.03018	0.994	3.3135	29.08814	0.00	------
10.35	Endrin aldehyde	8384	3.8567e-03	1	10	0.03018	0.994	3.3135	1.27789	0.00	------
10.71	Endosulfan sulfate	0	0.00000000	1	10	0.03018	0.994	---------	0.00000	--------	------
11.02	Methoxychlor	9524	7.9176e-03	1	10	0.03018	0.994	16.5673	2.62347	0.00	------
11.36	Endrin ketone	21201	7.4368e-03	1	10	0.03018	0.994	3.3135	2.46414	0.00	------
12.62	Decachlorobiphenyl	239077	0.10476108	1	10	0.03018	0.994	3.3135	34.71209	39.76	87.3

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.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450195

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31150619A019

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/19/2015

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	0.044	JBP
58-89-9	gamma-BHC (Lindane)	0.91	JP
76-44-8	Heptachlor	0.087	JP
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.1	JB
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	2.3	JB
72-55-9	4,4'-DDE	2.4	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	0.097	JBP
53494-70-5	Endrin ketone	0.18	JP
7421-93-4	Endrin aldehyde	0.16	JBP
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.2	J
8001-35-2	Toxaphene	170	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:25:25
Operator	: sagers	Sample Name	: 450195
Sample Number	: 019	Study	: PLCSS1
AutoSampler	: HP7673A	Rack/Vial	: 0/19
Instrument Name	: GCE31	Channel	: A
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/19/2015 18:10:11	Cycle	: 3

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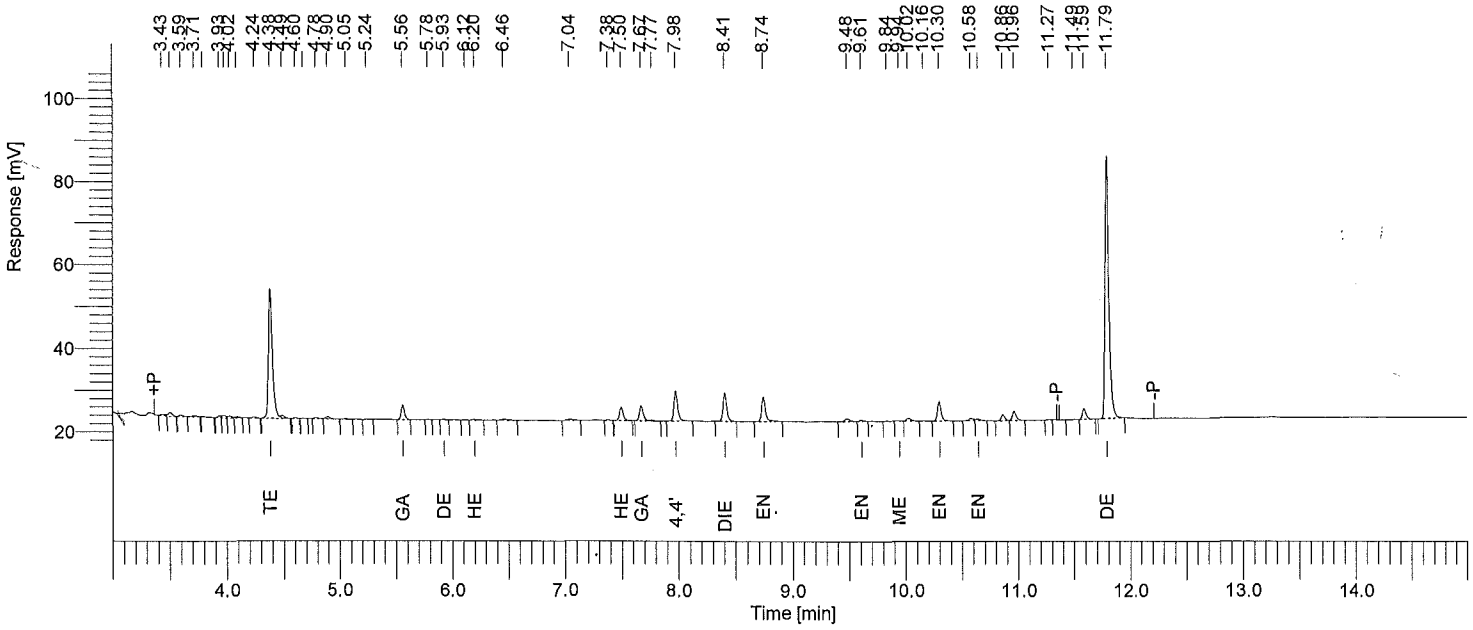

Instrument ID: GC31A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL LCS REPORT

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 %
4.38	Tetrachloro-m-xylene	76095	0.03460600	1	10	0.03000	1.000	1.6667	11.53533	20.00	57.7
5.12	alpha-BHC	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
5.56	gamma-BHC	7083	2.7298e-03	1	10	0.03000	1.000	1.6667	0.90992	1.67	54.6
5.67	beta-BHC	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
5.93	delta-BHC	330	1.3176e-04	1	10	0.03000	1.000	1.6667	0.04392	0.00	-----
6.20	Heptachlor	635	2.6241e-04	1	10	0.03000	1.000	1.6667	0.08747	0.00	-----
6.63	Aldrin	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
7.50	Heptachlor epoxide	7180	3.2524e-03	1	10	0.03000	1.000	1.6667	1.08412	1.67	65.0
7.67	gamma-Chlordane	8378	3.4979e-03	1	10	0.03000	1.000	1.6667	1.16596	1.67	70.0
7.86	alpha-Chlordane	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
7.98	4,4'-DDE	16025	7.0562e-03	1	10	0.03000	1.000	3.3333	2.35206	3.33	70.6
8.06	Endosulfan I	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
8.41	Dieldrin	15099	6.7644e-03	1	10	0.03000	1.000	3.3333	2.25481	3.33	67.6
8.74	Endrin	14051	6.9167e-03	1	10	0.03000	1.000	3.3333	2.30555	3.33	69.2
8.83	4,4'-DDD	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
9.06	Endosulfan II	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
9.23	4,4'-DDT	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
9.61	Endrin aldehyde	801	4.8690e-04	1	10	0.03000	1.000	3.3333	0.16230	0.00	-----
9.94	Methoxychlor	257	2.9018e-04	1	10	0.03000	1.000	16.6667	0.09673	0.00	-----
10.30	Endosulfan sulfate	10650	6.2517e-03	1	10	0.03000	1.000	3.3333	2.08391	3.33	62.5
10.64	Endrin ketone	1202	5.4081e-04	1	10	0.03000	1.000	3.3333	0.18027	0.00	-----
11.79	Decachlorobiphenyl	144534	0.08510121	1	10	0.03000	1.000	3.3333	28.36707	40.00	70.9

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.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450195

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 31150619B019

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/19/2015

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	0.041	JB
319-85-7	beta-BHC	0.020	J
319-86-8	delta-BHC	0.19	JBP
58-89-9	gamma-BHC (Lindane)	1.2	JP
76-44-8	Heptachlor	0.026	JP
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.2	JB
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	2.5	JB
72-55-9	4,4'-DDE	2.5	J
72-20-8	Endrin	2.5	J
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	2.2	J
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	0.60	JBP
53494-70-5	Endrin ketone	0.14	JP
7421-93-4	Endrin aldehyde	0.69	JBP
5103-71-9	alpha-Chlordane	0.063	J
5103-74-2	gamma-Chlordane	1.2	J
8001-35-2	Toxaphene	170	U

Software Version	: 6.3.1.0504	Date	: 06/20/2015 09:27:10
Operator	: sagers	Sample Name	: 450195
Sample Number	: 019	Study	: PLCSS1
AutoSampler	: HP7673A	Rack/Vial	: 0/19
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 18:30:43	Dilution Factor	: 1.00
		Cycle	: 3

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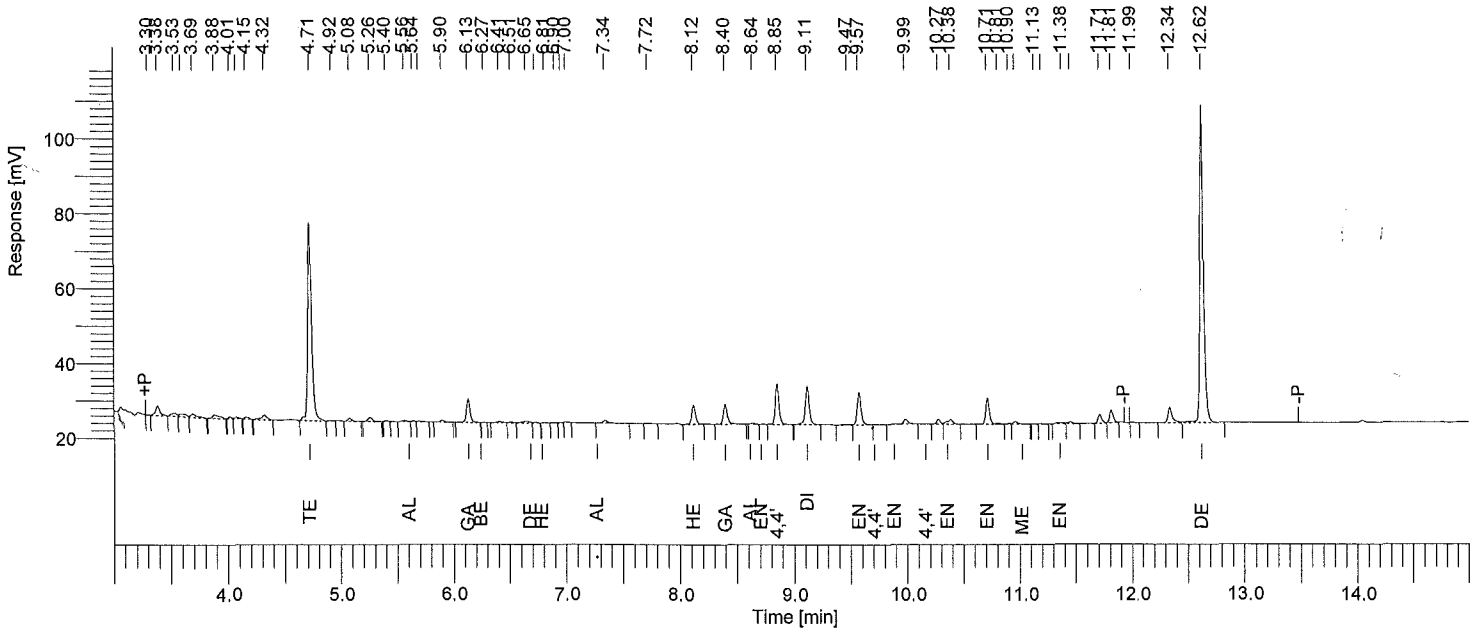


Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL LCS REPORT

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 %
4.71	Tetrachloro-m-xylene	127451	0.03579689	1	10	0.03000	1.000	1.6667	11.93230	20.00	59.7
5.64	alpha-BHC	559	1.2426e-04	1	10	0.03000	1.000	1.6667	0.04142	0.00	-----
6.13	gamma-BHC	14154	3.4648e-03	1	10	0.03000	1.000	1.6667	1.15493	1.67	69.3
6.27	beta-BHC	130	5.9793e-05	1	10	0.03000	1.000	1.6667	0.01993	0.00	-----
6.65	delta-BHC	2188	5.6883e-04	1	10	0.03000	1.000	1.6667	0.18961	0.00	-----
6.81	Heptachlor	296	7.9166e-05	1	10	0.03000	1.000	1.6667	0.02639	0.00	-----
7.27	Aldrin	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
8.12	Heptachlor epoxide	12000	3.7373e-03	1	10	0.03000	1.000	1.6667	1.24578	1.67	74.7
8.40	gamma-Chlordane	12825	3.7241e-03	1	10	0.03000	1.000	1.6667	1.24137	1.67	74.5
8.64	alpha-Chlordane	652	1.8942e-04	1	10	0.03000	1.000	1.6667	0.06314	0.00	-----
8.70	Endosulfan I	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
8.85	4,4'-DDE	24103	7.5248e-03	1	10	0.03000	1.000	3.3333	2.50826	3.33	75.2
9.11	Dieldrin	24194	7.5732e-03	1	10	0.03000	1.000	3.3333	2.52440	3.33	75.7
9.57	Endrin	20399	7.4666e-03	1	10	0.03000	1.000	3.3333	2.48888	3.33	74.7
9.71	4,4'-DDD	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
9.88	Endosulfan II	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
10.16	4,4'-DDT	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
10.38	Endrin aldehyde	4492	2.0665e-03	1	10	0.03000	1.000	3.3333	0.68883	0.00	-----
10.71	Endosulfan sulfate	15499	6.6429e-03	1	10	0.03000	1.000	3.3333	2.21432	3.33	66.4
10.96	Methoxychlor	2161	1.7964e-03	1	10	0.03000	1.000	16.6667	0.59880	0.00	-----
11.38	Endrin ketone	1212	4.2503e-04	1	10	0.03000	1.000	3.3333	0.14168	0.00	-----
12.62	Decachlorobiphenyl	193283	0.08469447	1	10	0.03000	1.000	3.3333	28.23149	40.00	70.6

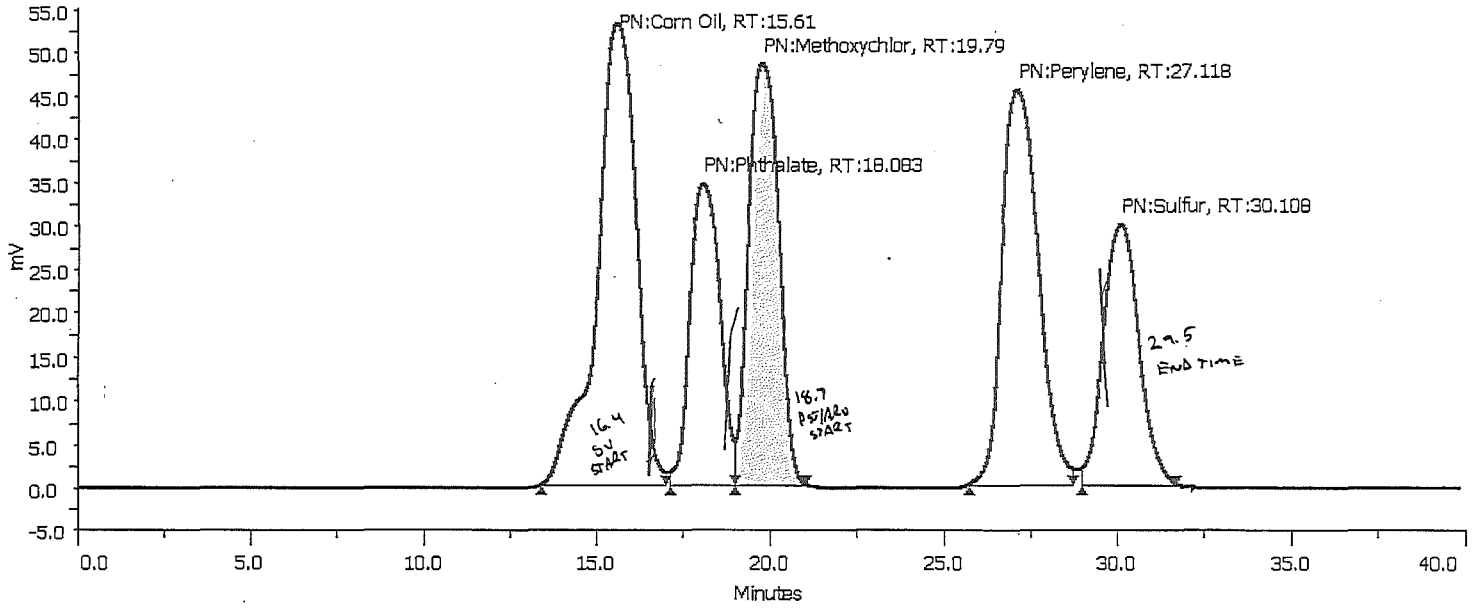
Surrogates 30 to 150%. g-BHC, Endrin, Endosulfan sulfate 50-120%. Dieldren, g-Chlordane 30-130%. Heptachlor Epoxide, DDE 50-150%. Aroclors 50-150%.

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

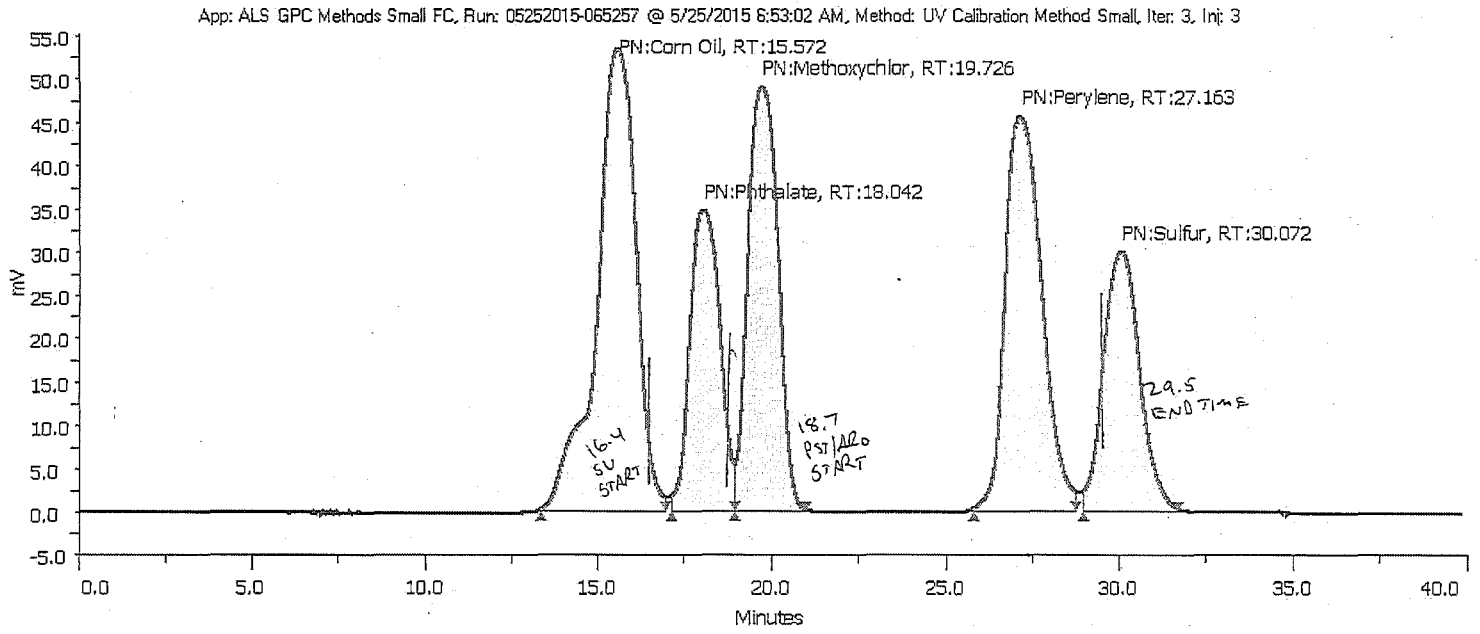
Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC 6 Weekly	Sample Zone->1	Corn Oil	13.388	15.61	6972078.75	53.12	0	90.862
3	GPC 6 Weekly	Sample Zone->1	Phthalate	17.154	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

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
5/25/15
Lyle Ehlo
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 6 Weekly	Sample Zone->1	Corn Oil	13.345	15.572	6981755.4167	53.19	0	90.823
3	GPC 6 Weekly	Sample Zone->1	Phthalate	17.114	18.042	3453661.6667	34.59	90.823	87.338
3	GPC 6 Weekly	Sample Zone->1	Methoxychlor	18.968	19.726	4909087.5	48.69	87.338	298.745
3	GPC 6 Weekly	Sample Zone->1	Perylene	25.829	27.163	5531085.8333	45.32	298.745	102.496
3	GPC 6 Weekly	Sample Zone->1	Sulfur	28.983	30.072	3584026.25	29.85	102.496	0

Run Variables

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:27:58
Reprocess Number	: nasltw7087: 2209396		
Operator	: sagers	Sample Name	: GPC6PST0603
Sample Number	: 018	Study	:
AutoSampler	: HP7673A	Rack/Vial	: 0/18
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/10/2015 21:51:48	Cycle	: 2

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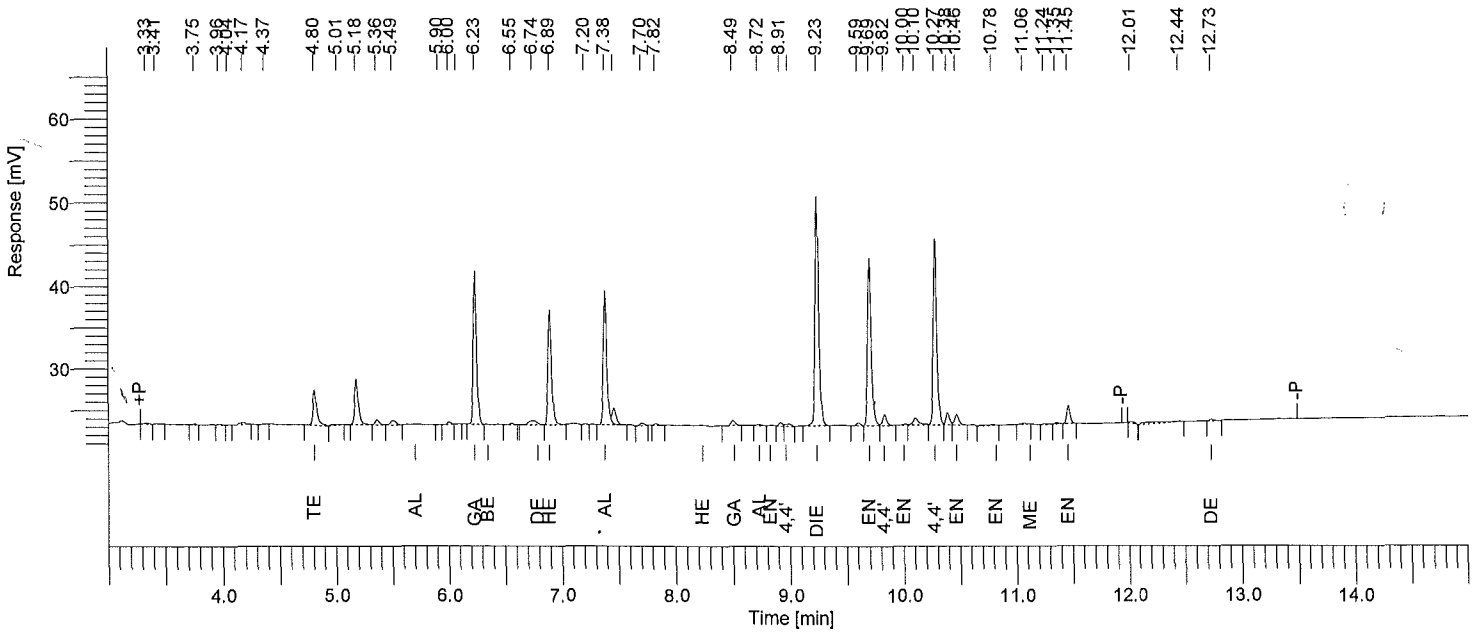

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO GPC CV REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/L	Target Amt ug/L	Recovery %
4.80	Tetrachloro-m-xylene	10497	0.0030780	0.0307804	0.1000000	30.8
5.70	alpha-BHC	0	0.0000000	0.0000000	----------	------
6.23	gamma-BHC	38207	0.0098589	0.0985887	0.1000000	98.6
6.34	beta-BHC	0	0.0000000	0.0000000	----------	------
6.74	delta-BHC	2718	0.0007457	0.0074566	0.1000000	7.5
6.89	Heptachlor	31223	0.0088187	0.0881867	0.1000000	88.2
7.38	Aldrin	35657	0.0106394	0.1063936	0.1000000	106.4
8.23	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
8.49	gamma-Chlordane	1507	0.0004542	0.0045420	0.1000000	4.5
8.72	alpha-Chlordane	487	0.0001513	0.0015130	0.1000000	1.5
8.82	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.98	4,4'-DDE	926	0.0002967	0.0029667	0.2000000	1.5
9.23	Dieldrin	63201	0.0206231	0.2062309	0.2000000	103.1
9.69	Endrin	46421	0.0190435	0.1904350	0.2000000	95.2
9.82	4,4'-DDD	3365	0.0013435	0.0134352	0.2000000	6.7
10.00	Endosulfan II	475	0.0001889	0.0018888	0.2000000	0.9
10.27	4,4'-DDT	49120	0.0207405	0.2074053	0.2000000	103.7
10.46	Endrin aldehyde	3445	0.0016449	0.0164489	0.2000000	8.2
10.78	Endosulfan sulfate	773	0.0003583	0.0035833	0.2000000	1.8
11.06	Methoxychlor	513	0.0004622	0.0046219	1.0000000	0.5
11.45	Endrin ketone	4576	0.0017001	0.0170012	0.2000000	8.5
12.73	Decachlorobiphenyl	514	0.0002500	0.0025001	0.2000000	1.3

Recoveries 80-110%.

Software Version : 6.3.1.0504
Reprocess Number : nasltw7087: 2209397
Operator : sagers
Sample Number : 019
AutoSampler : HP7673A
Instrument Name : GCE31
Instrument Serial # : None
Delay Time : 0.00 min
Sampling Rate : 5.0000 pts/s
Sample Volume : 1.000000
Sample Amount : 1.0000
Data Acquisition Time : 06/10/2015 22:12:00

Date : 06/11/2015 10:28:05

Sample Name : GPC6BLK0603
Study :
Rack/Vial : 0/19
Channel : B
A/D mV Range : 1000
End Time : 16.40 min

Area Reject : 0.000000
Dilution Factor : 1.00
Cycle : 3

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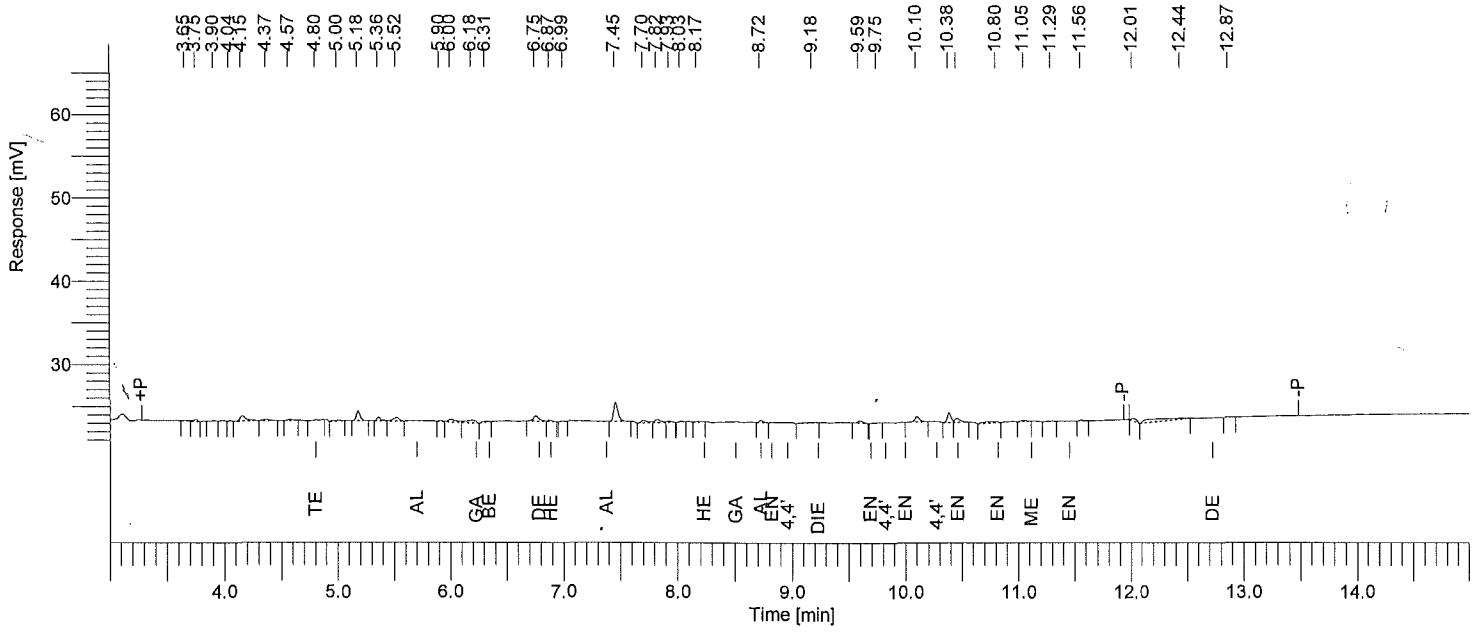

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO GPC BLK REPORT

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
4.80	Tetrachloro-m-xylene	406	1.18972e-04	1	10	1.000	1.000	0.050000	0.001190
5.70	alpha-BHC	0	0.000000000	1	10	1.000	1.000	--------	0.000000
6.18	gamma-BHC	1904	4.91282e-04	1	10	1.000	1.000	0.050000	0.004913
6.31	beta-BHC	422	2.04651e-04	1	10	1.000	1.000	0.050000	0.002047
6.75	delta-BHC	2462	6.75417e-04	1	10	1.000	1.000	0.050000	0.006754
6.87	Heptachlor	495	1.39788e-04	1	10	1.000	1.000	0.050000	0.001398
7.37	Aldrin	0	0.000000000	1	10	1.000	1.000	--------	0.000000
8.23	Heptachlor epoxide	0	0.000000000	1	10	1.000	1.000	--------	0.000000
8.51	gamma-Chlordane	0	0.000000000	1	10	1.000	1.000	--------	0.000000
8.72	alpha-Chlordane	658	2.04385e-04	1	10	1.000	1.000	0.050000	0.002044
8.82	Endosulfan I	0	0.000000000	1	10	1.000	1.000	--------	0.000000
8.96	4,4'-DDE	0	0.000000000	1	10	1.000	1.000	--------	0.000000
9.18	Dieldrin	608	1.98474e-04	1	10	1.000	1.000	0.100000	0.001985
9.75	Endrin	280	1.14839e-04	1	10	1.000	1.000	0.100000	0.001148
9.82	4,4'-DDD	0	0.000000000	1	10	1.000	1.000	--------	0.000000
10.00	Endosulfan II	0	0.000000000	1	10	1.000	1.000	--------	0.000000
10.27	4,4'-DDT	0	0.000000000	1	10	1.000	1.000	--------	0.000000
10.45	Endrin aldehyde	1537	7.33994e-04	1	10	1.000	1.000	0.100000	0.007340
10.80	Endosulfan sulfate	1248	5.78385e-04	1	10	1.000	1.000	0.100000	0.005784
11.05	Methoxychlor	465	4.19127e-04	1	10	1.000	1.000	0.500000	0.004191
11.45	Endrin ketone	0	0.000000000	1	10	1.000	1.000	--------	0.000000
12.73	Decachlorobiphenyl	0	0.000000000	1	10	1.000	1.000	--------	0.000000

All analytes <CRQL.

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:28:19
Operator	: sagers	Sample Name	: RESCA2
Sample Number	: 004	Study	: 26384
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/10/2015 17:06:50	Cycle	: 4

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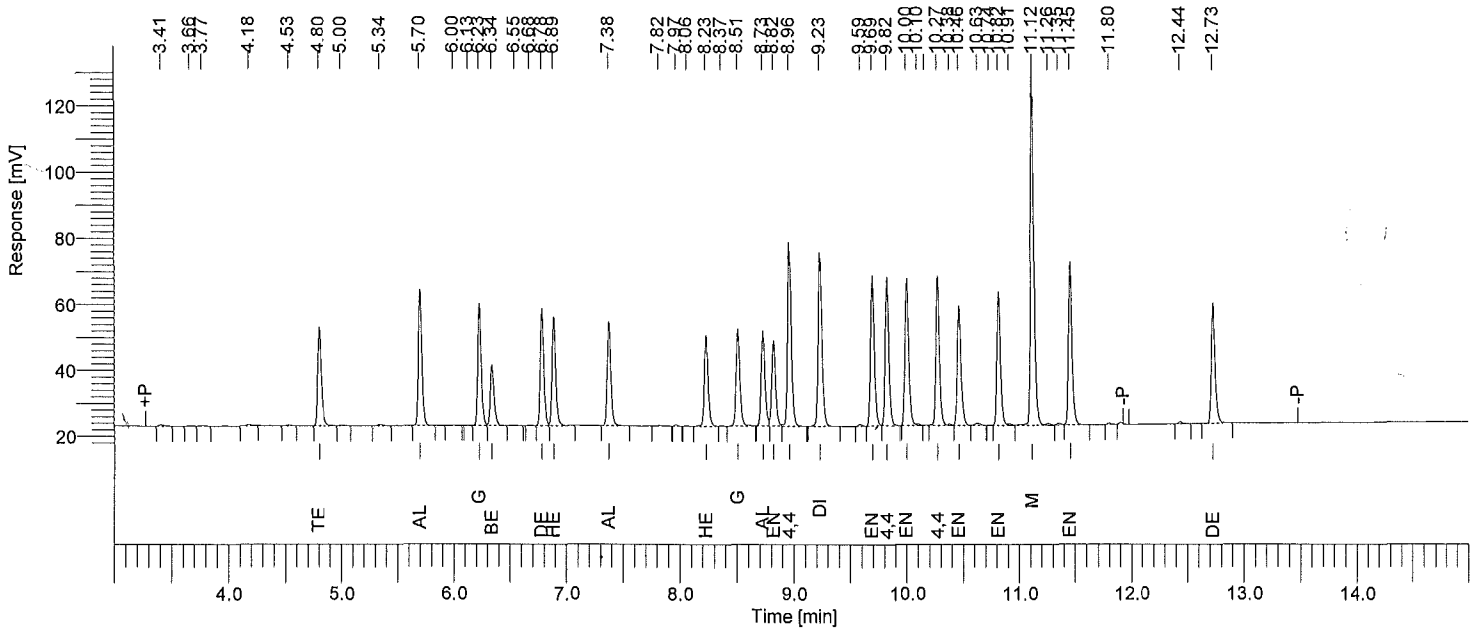

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.80	Tetrachloro-m-xylene	68815	0.0201794
5.70	alpha-BHC	88098	0.0208734
6.23	gamma-BHC	81272	0.0209710
6.34	beta-BHC	42690	0.0206871
6.78	delta-BHC	76748	0.0210575
6.89	Heptachlor	73961	0.0208893
7.38	Aldrin	70699	0.0210955
8.23	Heptachlor epoxide	63882	0.0211105
8.51	gamma-Chlordane	68721	0.0207133
8.73	alpha-Chlordane	67245	0.0208750
8.82	Endosulfan I	60554	0.0210067
8.96	4,4'-DDE	127484	0.0408300
9.23	Dieldrin	126266	0.0412020
9.69	Endrin	106336	0.0436230
9.82	4,4'-DDD	102024	0.0407338
10.00	Endosulfan II	103859	0.0413324
10.27	4,4'-DDT	100066	0.0422519
10.46	Endrin aldehyde	86549	0.0413247
10.82	Endosulfan sulfate	89185	0.0413170
11.12	Methoxychlor	227378	0.2048555
11.45	Endrin ketone	108620	0.0403565
12.73	Decachlorobiphenyl	84387	0.0410316

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:28:21
Operator	: sagers	Sample Name	: PEMA2
Sample Number	: 005	Study	: 26387
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	: 06/10/2015 17:27:12	Dilution Factor	: 1.00
		Cycle	: 5

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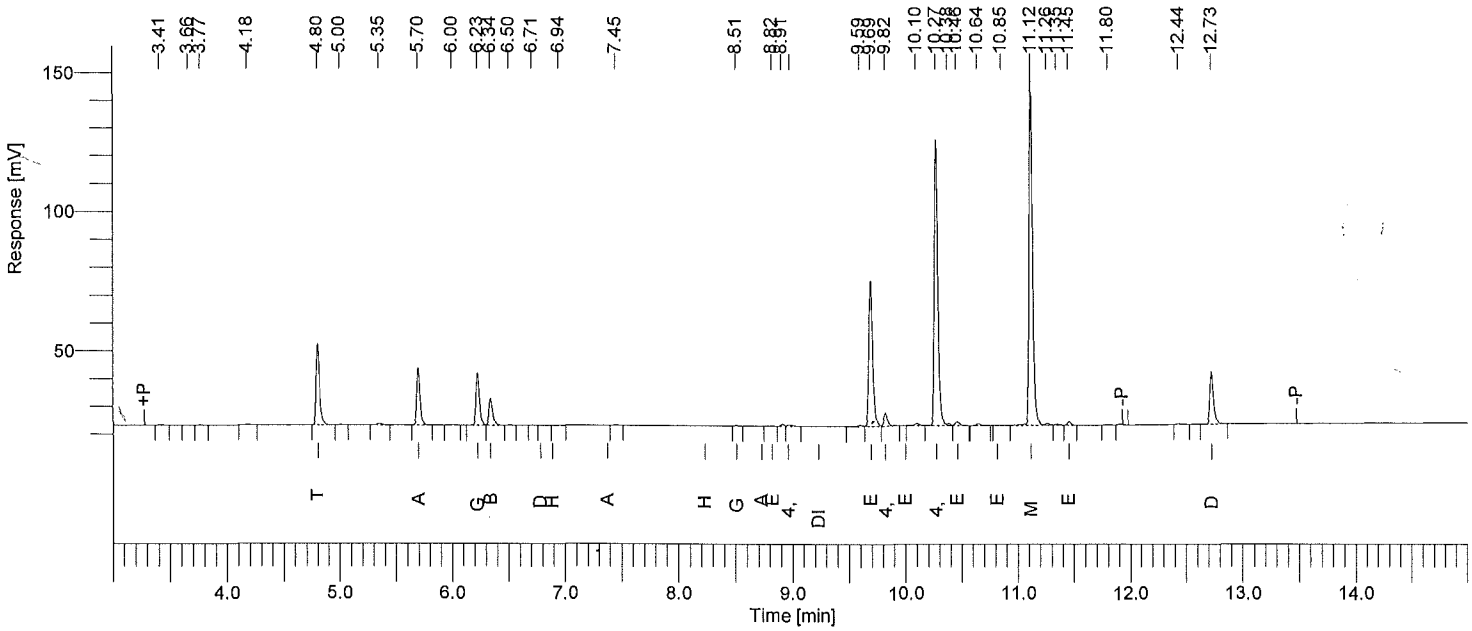

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.80	Tetrachloro-m-xylene	67314	0.0197394	0.0197394	0.02000	98.7
5.70	alpha-BHC	42062	0.0099659	0.0099659	0.01000	99.7
6.23	gamma-BHC	39904	0.0102967	0.0102967	0.01000	103.0
6.34	beta-BHC	22020	0.0106704	0.0106704	0.01000	106.7
6.78	delta-BHC	0	0.0000000	0.0000000	----------	------
6.89	Heptachlor	0	0.0000000	0.0000000	----------	------
7.37	Aldrin	0	0.0000000	0.0000000	----------	------
8.23	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
8.51	gamma-Chlordane	532	0.0001605	0.0001605	0.00000	------
8.73	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
8.82	Endosulfan I	292	0.0001015	0.0001015	0.00000	------
8.98	4,4'-DDE	1804	0.0005777	0.0005777	0.10000	0.6
9.23	Dieldrin	0	0.0000000	0.0000000	----------	------
9.69	Endrin	123818	0.0507947	0.0507947	0.05000	101.6
9.82	4,4'-DDD	10884	0.0043455	0.0043455	0.10000	4.3
10.00	Endosulfan II	0	0.0000000	0.0000000	----------	------
10.27	4,4'-DDT	227865	0.0962142	0.0962142	0.10000	96.2
10.46	Endrin aldehyde	3837	0.0018321	0.0018321	0.05000	3.7
10.85	Endosulfan sulfate	740	0.0003428	0.0003428	0.00000	------
11.12	Methoxychlor	271040	0.2441932	0.2441932	0.25000	97.7
11.45	Endrin ketone	2886	0.0010724	0.0010724	0.05000	2.1
12.73	Decachlorobiphenyl	43756	0.0212758	0.0212758	0.02000	106.4
			0.4715828			820.6

06/11/2015 10:28:21 Result: \\AIsltws012\TCCS\sagers\GCE31\31150610\31150610B_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 %
8.98	4,4'-DDE	1804	0.0005777	0.0005777	0.10000	0.6
9.82	4,4'-DDD	10884	0.0043455	0.0043455	0.10000	4.3
			0.0049232			4.9

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 %
10.46	Endrin aldehyde	3837	0.0018321	0.0018321	0.05000	3.7
11.45	Endrin ketone	2886	0.0010724	0.0010724	0.05000	2.1
			0.0029044			5.8

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:28:23
Operator	: sagers	Sample Name	: TOXAPH1A2
Sample Number	: 006	Study	: 26377
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/10/2015 17:47:30	Cycle	: 6

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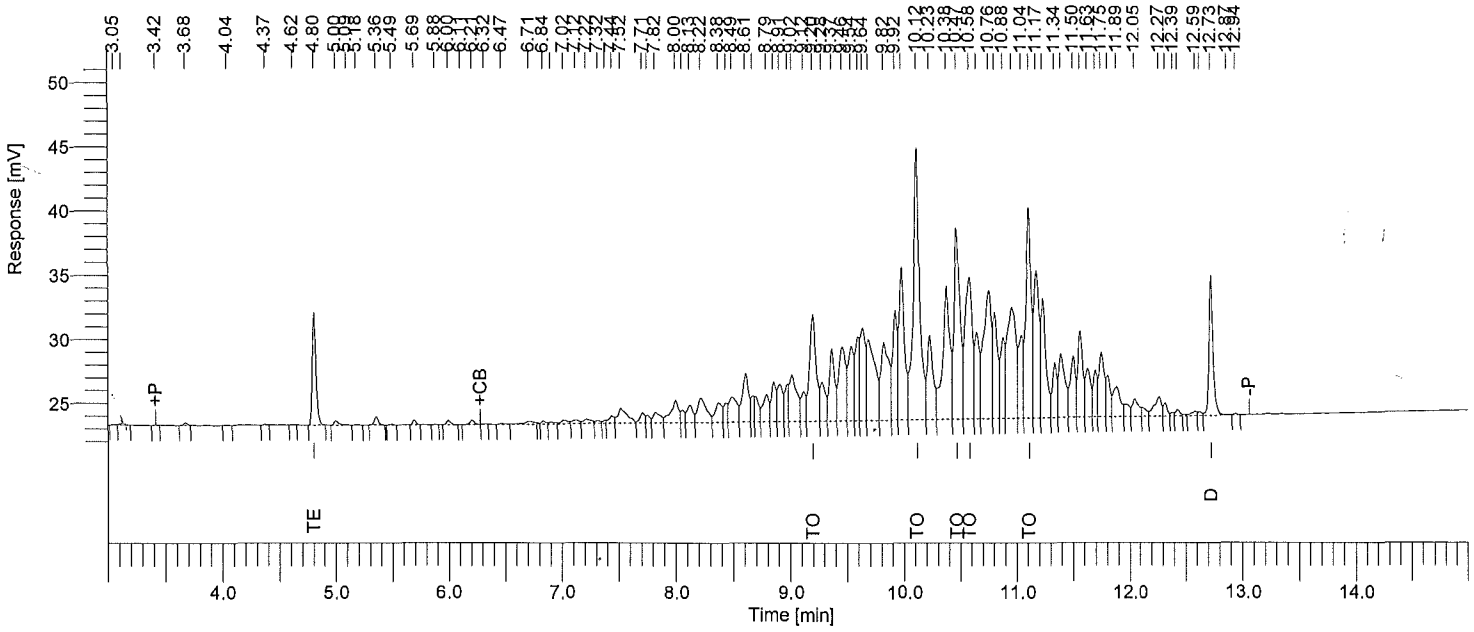

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.80	Tetrachloro-m-xylene	19838	0.0056345
9.20	Toxaphene-1	34053	0.5117227
10.12	Toxaphene-2	83887	0.5167137
10.47	Toxaphene-3	55621	0.5020547
10.58	Toxaphene-4	51152	0.4936080
11.11	Toxaphene-5	54407	0.5050374
12.73	Decachlorobiphenyl	27247	0.0113490

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:28:25
Operator	: sagers	Sample Name	: TOXAPH2A2
Sample Number	: 007	Study	: 26378
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	: 06/10/2015 18:07:50	Dilution Factor	: 1.00
		Cycle	: 7

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Proc Method : \\Alsltws012\TCCS\sagers\GCE31\31150610\31_som_tox_b.mth from \\Alsltws012\TCCS\sagers\GCE31\31150610\31150610B_007.rst
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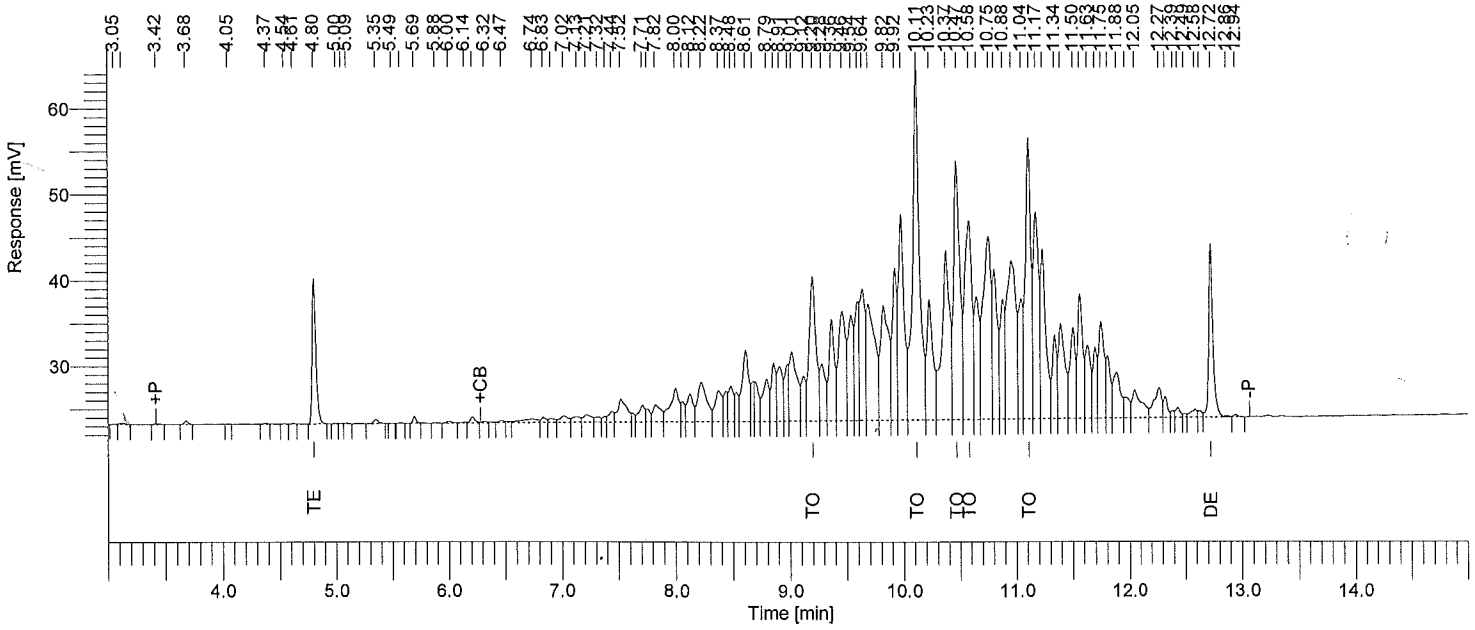

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.80	Tetrachloro-m-xylene	38484	0.0109304
9.20	Toxaphene-1	71390	1.0727815
10.11	Toxaphene-2	170802	1.0520701
10.47	Toxaphene-3	115954	1.0466422
10.58	Toxaphene-4	108096	1.0431105
11.11	Toxaphene-5	111489	1.0349036
12.72	Decachlorobiphenyl	51429	0.0214217

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:28:27
Operator	: sagers	Sample Name	: TOXAPH3A2
Sample Number	: 008	Study	: 26379
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	: 06/10/2015 18:28:22	Dilution Factor	: 1.00
		Cycle	: 8

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Proc Method : \\Alsltws012\TCCS\sagers\GCE31\31150610\31_som_tox_b.mth from \\Alsltws012\TCCS\sagers\GCE31\31150610\31150610B_008.rst
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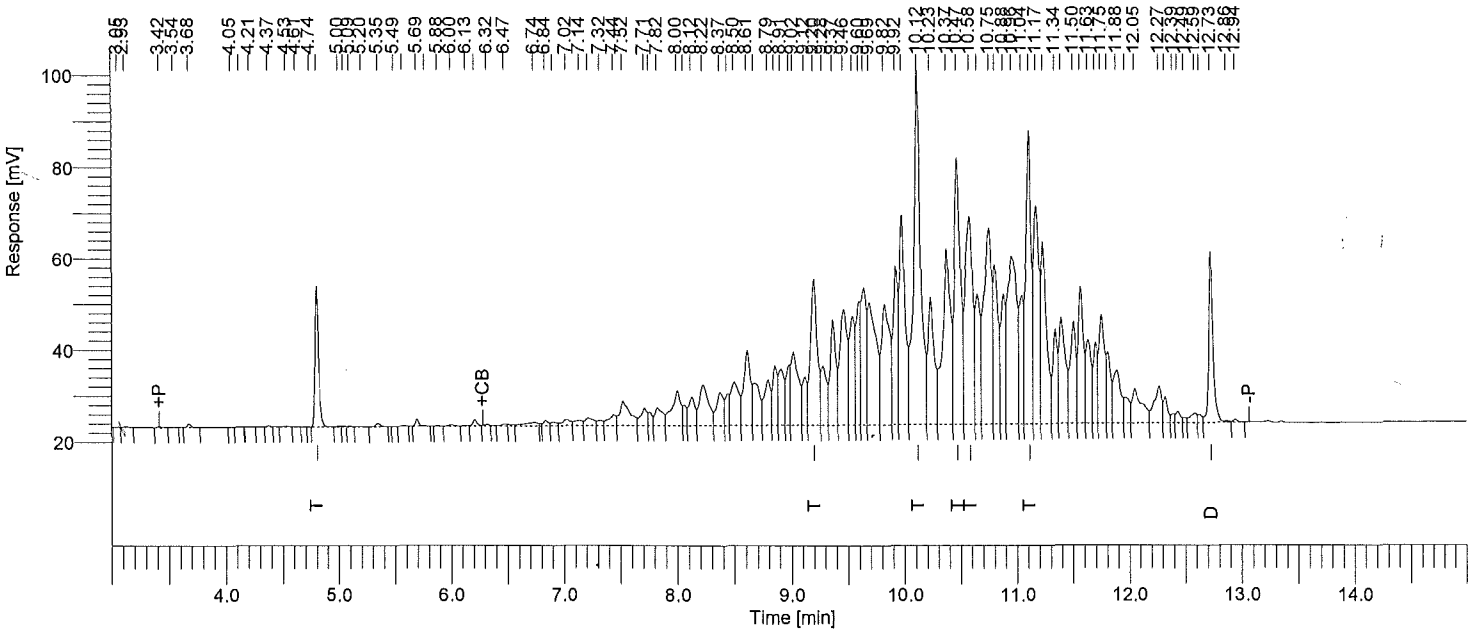

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.80	Tetrachloro-m-xylene	70848	0.0201227	0.0201227	0.0200000	100.6
9.20	Toxaphene-1	136681	2.0539225	2.0539225	2.0000000	102.7
10.12	Toxaphene-2	329104	2.0271527	2.0271527	2.0000000	101.4
10.47	Toxaphene-3	226777	2.0469780	2.0469780	2.0000000	102.3
10.58	Toxaphene-4	213593	2.0611357	2.0611357	2.0000000	103.1
11.11	Toxaphene-5	219707	2.0394443	2.0394443	2.0000000	102.0
12.73	Decachlorobiphenyl	95417	0.0397439	0.0397439	0.0400000	99.4

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:28:29
Operator	: sagers	Sample Name	: TOXAPH4A2
Sample Number	: 009	Study	: 26380
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/10/2015 18:48:38	Cycle	: 9

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Proc Method : \\Alsltws012\TCCS\sagers\GCE31\31150610\31_som_tox_b.mth from \\Alsltws012\TCCS\sagers\GCE31\31150610\31150610B_009.rst
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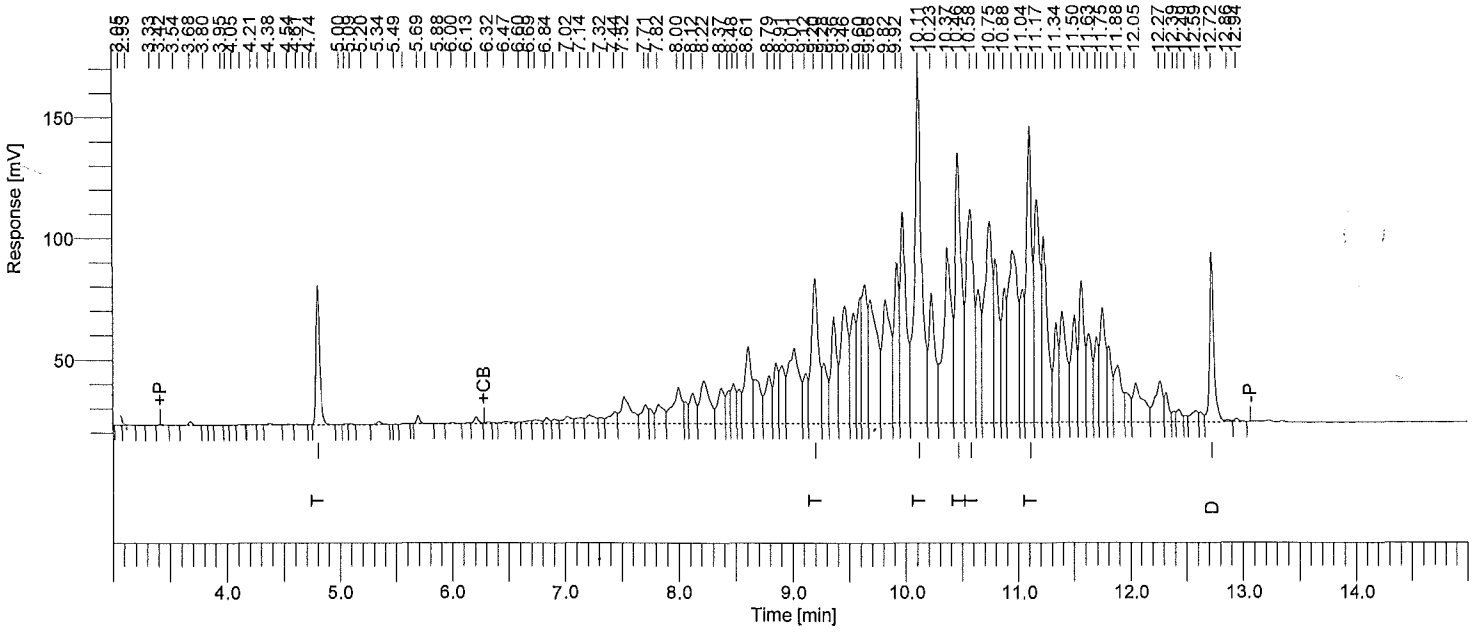

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.80	Tetrachloro-m-xylene	132026	0.0374990
9.20	Toxaphene-1	260964	3.9215289
10.11	Toxaphene-2	631435	3.8893875
10.46	Toxaphene-3	436781	3.9425523
10.58	Toxaphene-4	410855	3.9646812
11.11	Toxaphene-5	422205	3.9191438
12.72	Decachlorobiphenyl	180572	0.0752135

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:28:31
Operator	: sagers	Sample Name	: TOXAPH5A2
Sample Number	: 010	Study	: 26381
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/10/2015 19:09:10	Cycle	: 10

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Proc Method : \\Alsltws012\TCCS\sagers\GCE31\31150610\31_som_tox_b.mth from \\Alsltws012\TCCS\sagers\GCE31\31150610\31150610B_010.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE31\31150610\31_som_tox_b.mth from \\Alsltws012\TCCS\sagers\GCE31\31150610\31150610B_010.rst
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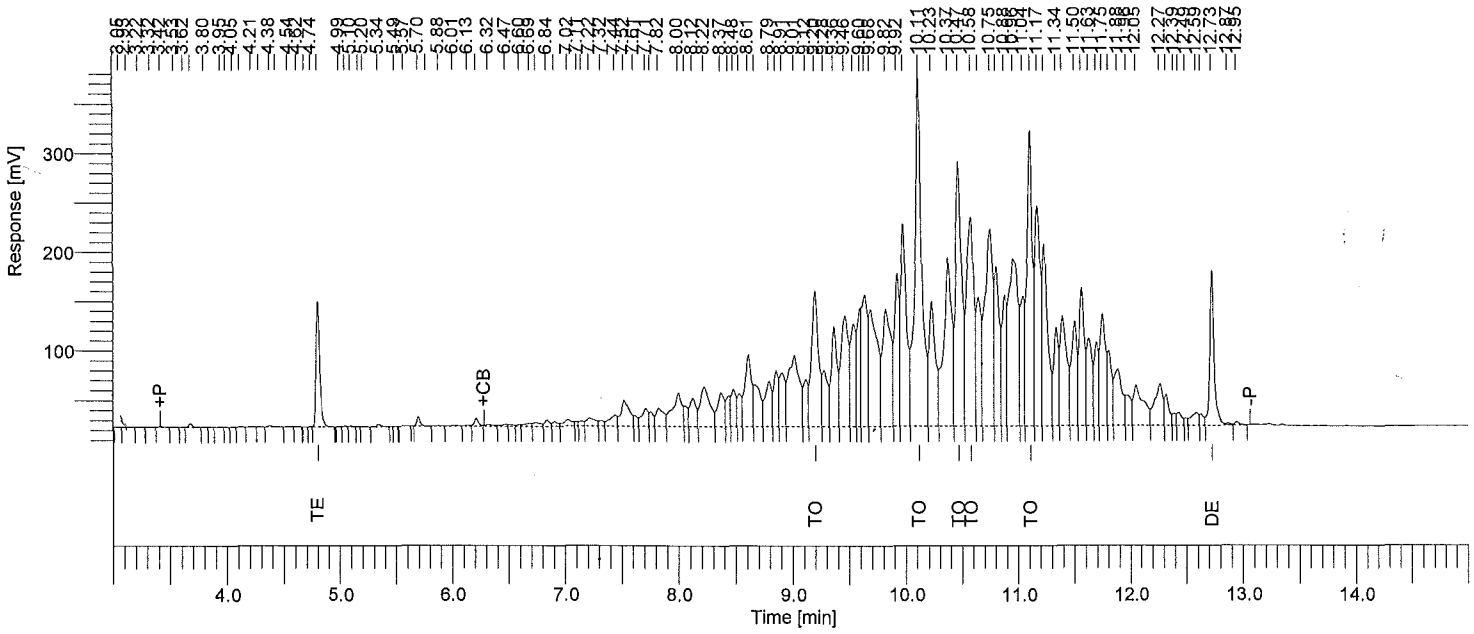

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.80	Tetrachloro-m-xylene	294494	0.0836442
9.20	Toxaphene-1	596542	8.9642957
10.11	Toxaphene-2	1507531	9.2857923
10.47	Toxaphene-3	1041526	9.4012134
10.58	Toxaphene-4	982334	9.4793525
11.11	Toxaphene-5	1029364	9.5551353
12.73	Decachlorobiphenyl	413057	0.1720499

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:28:35
Operator	: sagers	Sample Name	: INDC1A2
Sample Number	: 011	Study	: 26382
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/10/2015 19:29:26	Cycle	: 11

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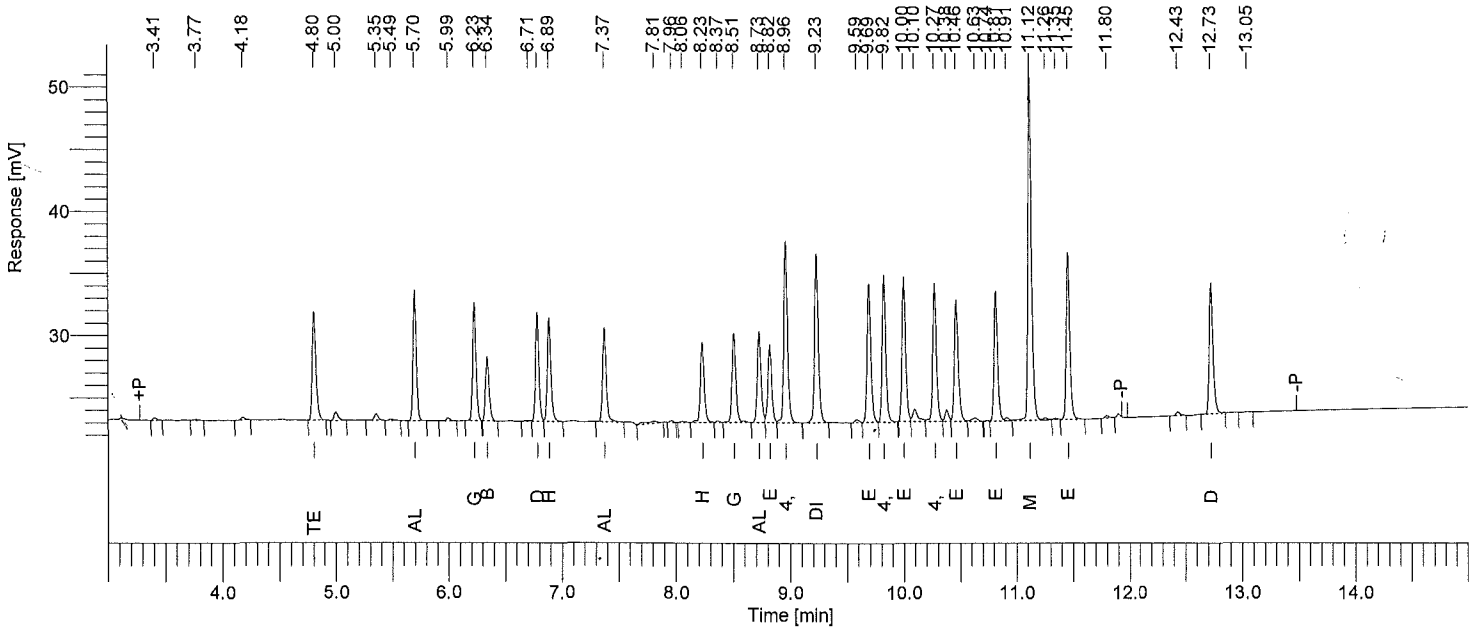

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.80	Tetrachloro-m-xylene	19698	0.0057763
5.70	alpha-BHC	20992	0.0049736
6.23	gamma-BHC	19759	0.0050984
6.34	beta-BHC	11512	0.0055786
6.78	delta-BHC	18046	0.0049512
6.89	Heptachlor	18276	0.0051619
7.37	Aldrin	16742	0.0049957
8.23	Heptachlor epoxide	14995	0.0049553
8.51	gamma-Chlordane	16867	0.0050838
8.73	alpha-Chlordane	16709	0.0051872
8.82	Endosulfan I	14412	0.0049995
8.96	4,4'-DDE	32891	0.0105340
9.23	Dieldrin	31850	0.0103931
9.69	Endrin	25364	0.0104052
9.82	4,4'-DDD	26038	0.0103957
10.00	Endosulfan II	26543	0.0105634
10.27	4,4'-DDT	24770	0.0104591
10.46	Endrin aldehyde	23864	0.0113944
10.81	Endosulfan sulfate	22689	0.0105113
11.12	Methoxychlor	60973	0.0549339
11.45	Endrin ketone	29691	0.0110313
12.73	Decachlorobiphenyl	24941	0.0121270

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:28:37
Operator	: sagers	Sample Name	: INDC2A2
Sample Number	: 012	Study	: 26383
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/10/2015 19:49:58	Cycle	: 12

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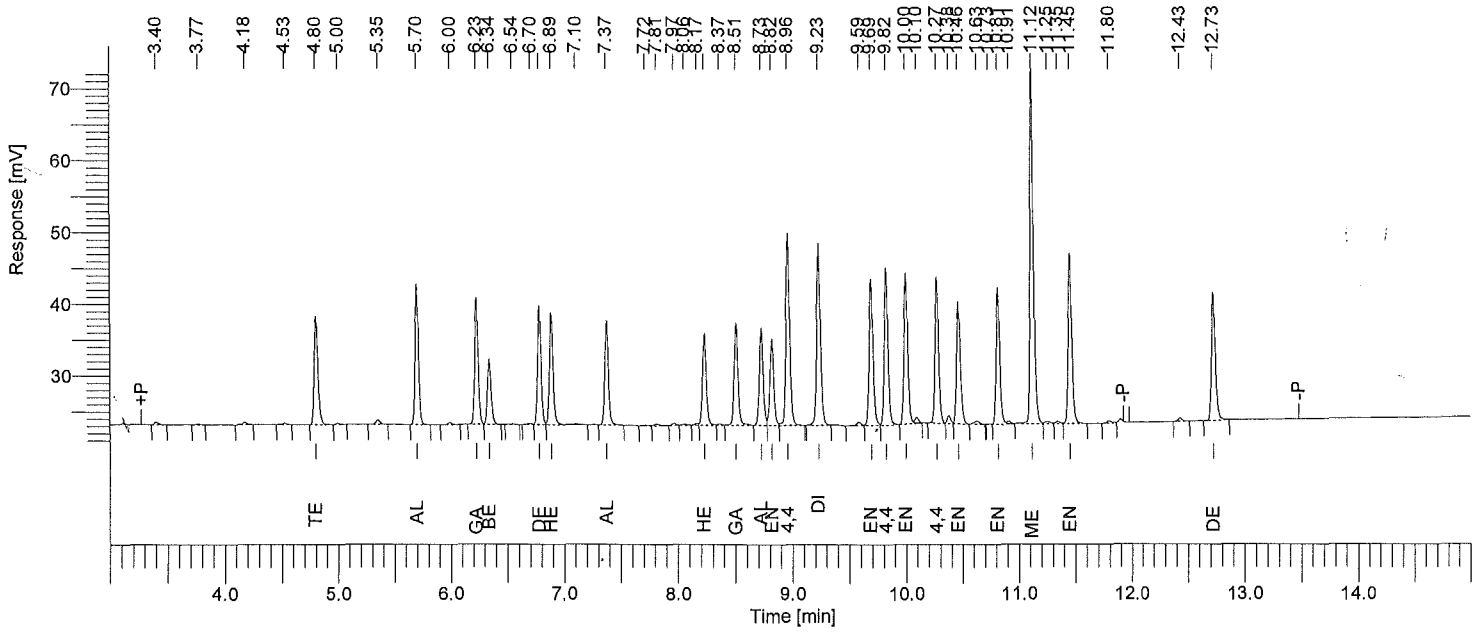

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.80	Tetrachloro-m-xylene	34634	0.0101562
5.70	alpha-BHC	40408	0.0095740
6.23	gamma-BHC	37704	0.0097288
6.34	beta-BHC	20871	0.0101138
6.78	delta-BHC	35128	0.0096380
6.89	Heptachlor	34632	0.0097815
7.37	Aldrin	32109	0.0095810
8.23	Heptachlor epoxide	29289	0.0096787
8.51	gamma-Chlordane	33306	0.0100388
8.73	alpha-Chlordane	31506	0.0097804
8.82	Endosulfan I	27807	0.0096464
8.96	4,4'-DDE	61106	0.0195706
9.23	Dieldrin	59322	0.0193576
9.69	Endrin	47582	0.0195199
9.82	4,4'-DDD	49696	0.0198416
10.00	Endosulfan II	48256	0.0192042
10.27	4,4'-DDT	44163	0.0186474
10.46	Endrin aldehyde	40824	0.0194923
10.81	Endosulfan sulfate	41371	0.0191662
11.12	Methoxychlor	105088	0.0946791
11.45	Endrin ketone	52338	0.0194455
12.73	Decachlorobiphenyl	41575	0.0202152

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:28:39
Operator	: sagers	Sample Name	: INDC3A2
Sample Number	: 013	Study	: 26384
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/10/2015 20:10:14	Cycle	: 13

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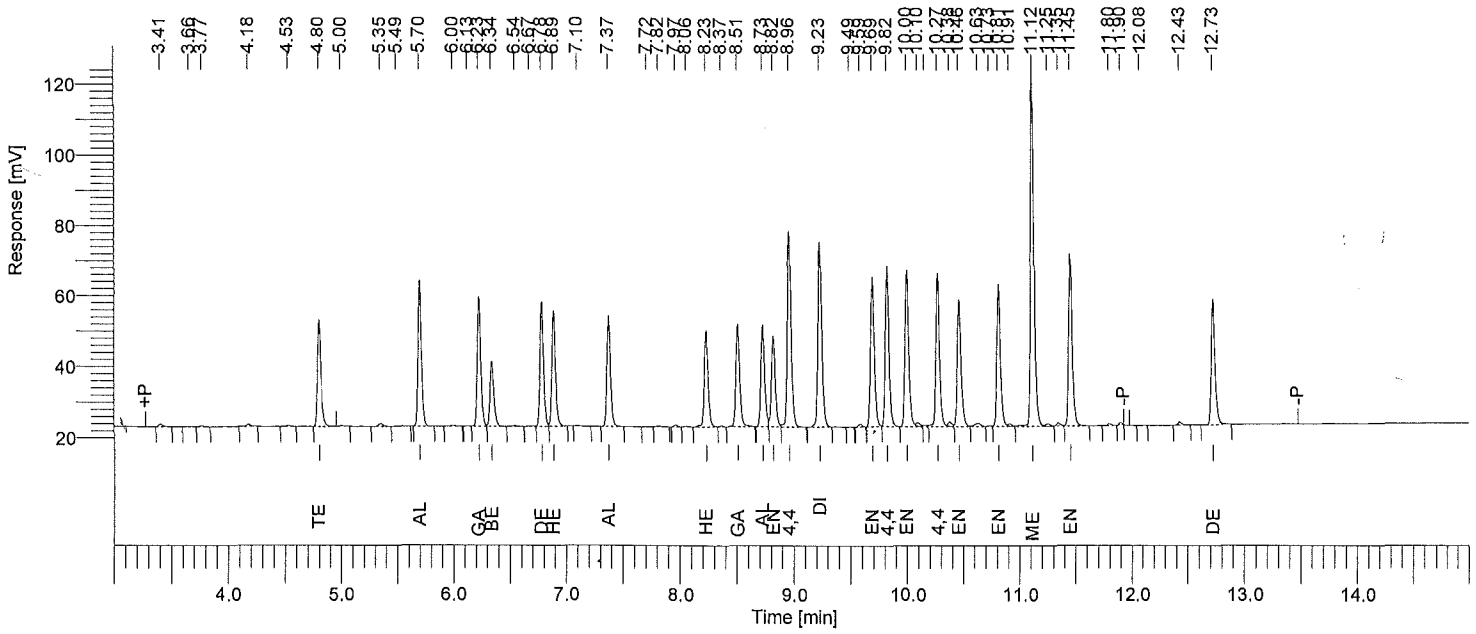

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.80	Tetrachloro-m-xylene	68906	0.0202062	0.0202062	0.0200000	101.0
5.70	alpha-BHC	87550	0.0207435	0.0207435	0.0200000	103.7
6.23	gamma-BHC	80491	0.0207695	0.0207695	0.0200000	103.8
6.34	beta-BHC	42435	0.0205631	0.0205631	0.0200000	102.8
6.78	delta-BHC	75928	0.0208323	0.0208323	0.0200000	104.2
6.89	Heptachlor	72617	0.0205099	0.0205099	0.0200000	102.5
7.37	Aldrin	69479	0.0207315	0.0207315	0.0200000	103.7
8.23	Heptachlor epoxide	63350	0.0209345	0.0209345	0.0200000	104.7
8.51	gamma-Chlordane	68230	0.0205654	0.0205654	0.0200000	102.8
8.73	alpha-Chlordane	66488	0.0206401	0.0206401	0.0200000	103.2
8.82	Endosulfan I	59588	0.0206717	0.0206717	0.0200000	103.4
8.96	4,4'-DDE	127703	0.0409000	0.0409000	0.0400000	102.3
9.23	Dieldrin	125412	0.0409233	0.0409233	0.0400000	102.3
9.69	Endrin	97796	0.0401197	0.0401197	0.0400000	100.3
9.82	4,4'-DDD	102561	0.0409481	0.0409481	0.0400000	102.4
10.00	Endosulfan II	102888	0.0409461	0.0409461	0.0400000	102.4
10.27	4,4'-DDT	96837	0.0408885	0.0408885	0.0400000	102.2
10.46	Endrin aldehyde	85046	0.0406070	0.0406070	0.0400000	101.5
10.81	Endosulfan sulfate	87440	0.0405086	0.0405086	0.0400000	101.3
11.12	Methoxychlor	216049	0.1946486	0.1946486	0.2000000	97.3
11.45	Endrin ketone	107590	0.0399738	0.0399738	0.0400000	99.9
12.73	Decachlorobiphenyl	81441	0.0395995	0.0395995	0.0400000	99.0

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:28:41
Operator	: sagers	Sample Name	: INDC4A2
Sample Number	: 014	Study	: 26385
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	: 06/10/2015 20:30:30	Dilution Factor	: 1.00
		Cycle	: 14

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Report Format File: \\Alsltws012\TCCS\sagers\GCE31\31150610\31_RPT_2UL\31_som_std_b.rpt
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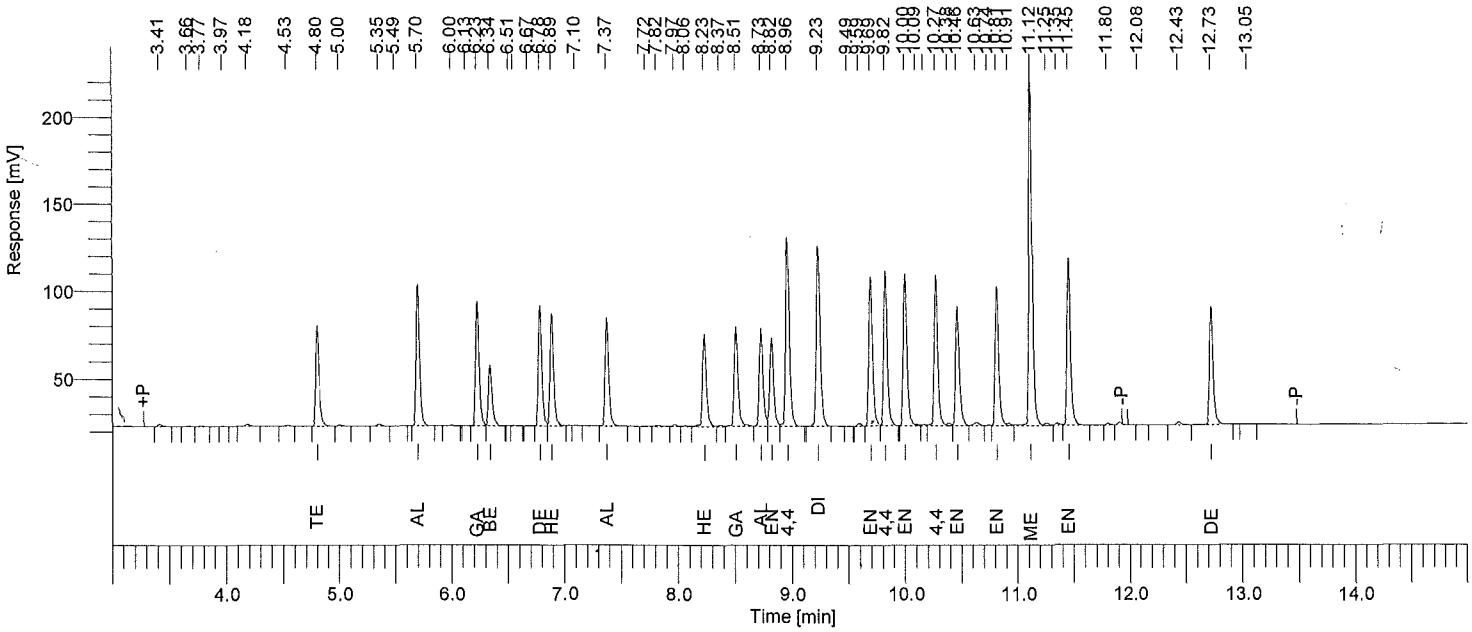

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.80	Tetrachloro-m-xylene	131520	0.0385672
5.70	alpha-BHC	174790	0.0414134
6.23	gamma-BHC	158277	0.0408409
6.34	beta-BHC	80358	0.0389402
6.78	delta-BHC	150686	0.0413437
6.89	Heptachlor	143929	0.0406512
7.37	Aldrin	139227	0.0415431
8.23	Heptachlor epoxide	125291	0.0414036
8.51	gamma-Chlordane	134433	0.0405200
8.73	alpha-Chlordane	130729	0.0405826
8.82	Endosulfan I	118919	0.0412539
8.96	4,4'-DDE	251376	0.0805094
9.23	Dieldrin	250066	0.0815995
9.69	Endrin	199319	0.0817679
9.82	4,4'-DDD	199623	0.0797009
10.00	Endosulfan II	203131	0.0808391
10.27	4,4'-DDT	192786	0.0814023
10.46	Endrin aldehyde	163009	0.0778322
10.81	Endosulfan sulfate	175594	0.0813478
11.12	Methoxychlor	434573	0.3915280
11.45	Endrin ketone	212775	0.0790544
12.73	Decachlorobiphenyl	154391	0.0750701

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:28:43
Operator	: sagers	Sample Name	: INDC5A2
Sample Number	: 015	Study	: 26386
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	: 06/10/2015 20:50:46	Dilution Factor	: 1.00
		Cycle	: 15

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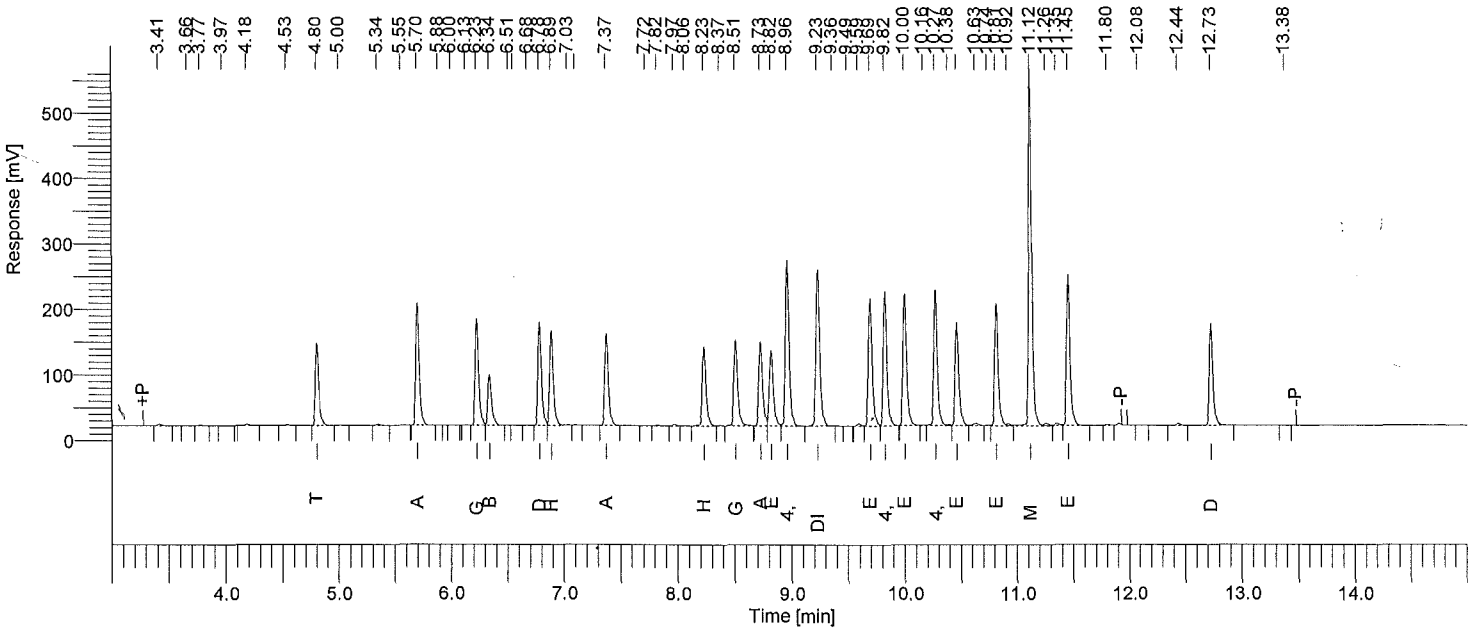

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.80	Tetrachloro-m-xylene	291439	0.0854622
5.70	alpha-BHC	411667	0.0975373
6.23	gamma-BHC	367365	0.0947930
6.34	beta-BHC	179789	0.0871230
6.78	delta-BHC	353814	0.0970759
6.89	Heptachlor	335541	0.0947698
7.37	Aldrin	324286	0.0967618
8.23	Heptachlor epoxide	290279	0.0959252
8.51	gamma-Chlordane	311226	0.0938076
8.73	alpha-Chlordane	302146	0.0937960
8.82	Endosulfan I	279768	0.0970536
8.96	4,4'-DDE	586496	0.1878398
9.23	Dieldrin	582102	0.1899463
9.69	Endrin	467239	0.1916787
9.82	4,4'-DDD	475077	0.1896775
10.00	Endosulfan II	477078	0.1898610
10.27	4,4'-DDT	465124	0.1963946
10.46	Endrin aldehyde	376095	0.1795745
10.81	Endosulfan sulfate	414875	0.1921997
11.12	Methoxychlor	1112680	1.0024674
11.45	Endrin ketone	504425	0.1874137
12.73	Decachlorobiphenyl	348877	0.1696354

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:28:45
Operator	: sagers	Sample Name	: PIBLKB2
Sample Number	: 016	Study	: 26387
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/10/2015 21:11:04	Cycle	: 16

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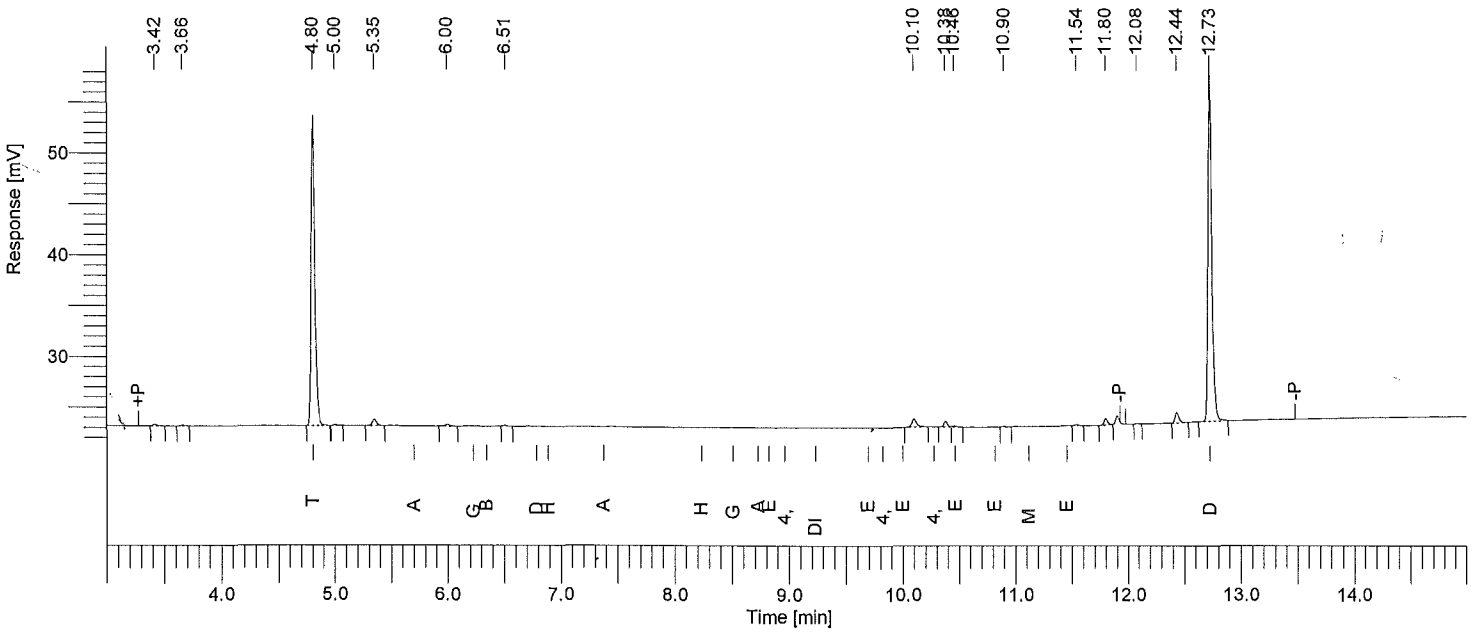
Report Format File: \\AlsItws012\TCCS\sagers\GCE31\31150610\31_RPT_2UL\31_som12_inst blk_b.rpt
Sequence File : \\AlsItws012\TCCS\sagers\GCE31\31150610\31150610_SOM012_PEST_X1T45_X1T50_F9L98_A.seq



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 %
4.80	Tetrachloro-m-xylene	69407	0.020353	1	10	1.000	1.000	0.050000	0.203532	0.2000	101.8
5.70	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.23	gamma-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.34	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.78	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.89	Heptachlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.37	Aldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.23	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.51	gamma-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.73	alpha-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.82	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.96	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.23	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.69	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.82	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.00	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.27	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.46	Endrin aldehyde	349	1.67e-04	1	10	1.000	1.000	0.100000	0.001665	0.0000	-----
10.81	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.12	Methoxychlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.45	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
12.73	Decachlorobiphenyl	78909	0.038368	1	10	1.000	1.000	0.100000	0.383683	0.4000	95.9

All analytes <CRQL.

Software Version	: 6.3.1.0504	Date	: 06/11/2015 10:28:47
Operator	: sagers	Sample Name	: PEMB2
Sample Number	: 017	Study	: 26388
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	: 06/10/2015 21:31:20	Dilution Factor	: 1.00
		Cycle	: 17

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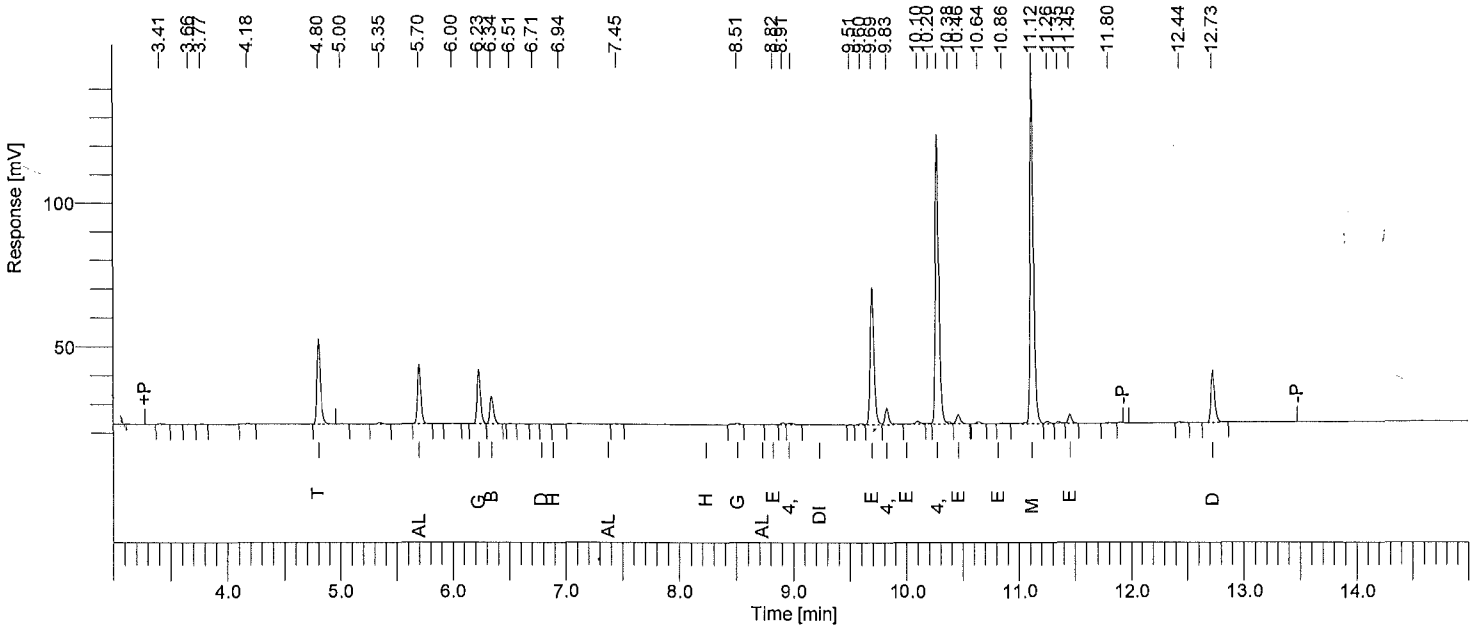

Instrument ID: GC31B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.80	Tetrachloro-m-xylene	67246	0.0197193	0.0197193	0.02000	98.6
5.70	alpha-BHC	42365	0.0100376	0.0100376	0.01000	100.4
6.23	gamma-BHC	39650	0.0102311	0.0102311	0.01000	102.3
6.34	beta-BHC	21605	0.0104693	0.0104693	0.01000	104.7
6.78	delta-BHC	0	0.0000000	0.0000000	----------	------
6.89	Heptachlor	0	0.0000000	0.0000000	----------	------
7.37	Aldrin	0	0.0000000	0.0000000	----------	------
8.23	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
8.51	gamma-Chlordane	1066	0.0003213	0.0003213	0.00000	------
8.73	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
8.82	Endosulfan I	396	0.0001375	0.0001375	0.00000	------
8.98	4,4'-DDE	1807	0.0005788	0.0005788	0.10000	0.6
9.23	Dieldrin	0	0.0000000	0.0000000	----------	------
9.69	Endrin	113059	0.0463811	0.0463811	0.05000	92.8
9.83	4,4'-DDD	14288	0.0057046	0.0057046	0.10000	5.7
10.00	Endosulfan II	0	0.0000000	0.0000000	----------	------
10.27	4,4'-DDT	224700	0.0948776	0.0948776	0.10000	94.9
10.46	Endrin aldehyde	8329	0.0039770	0.0039770	0.05000	8.0
10.86	Endosulfan sulfate	1034	0.0004791	0.0004791	0.00000	------
11.12	Methoxychlor	261141	0.2352744	0.2352744	0.25000	94.1
11.45	Endrin ketone	6637	0.0024659	0.0024659	0.05000	4.9
12.73	Decachlorobiphenyl	42341	0.0205875	0.0205875	0.02000	102.9
			0.4612420			809.8

06/11/2015 10:28:47 Result: \\Alsltws012\TCCS\sagers\GCE31\31150610\31150610B_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 %
8.98	4,4'-DDE	1807	0.0005788	0.0005788	0.10000	0.6
9.83	4,4'-DDD	14288	0.0057046	0.0057046	0.10000	5.7
			0.0062834			6.3

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 %
10.46	Endrin aldehyde	8329	0.0039770	0.0039770	0.05000	8.0
11.45	Endrin ketone	6637	0.0024659	0.0024659	0.05000	4.9
			0.0064429			12.9

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:27:26
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 03/10/2015 04:09:58	Cycle	: 4

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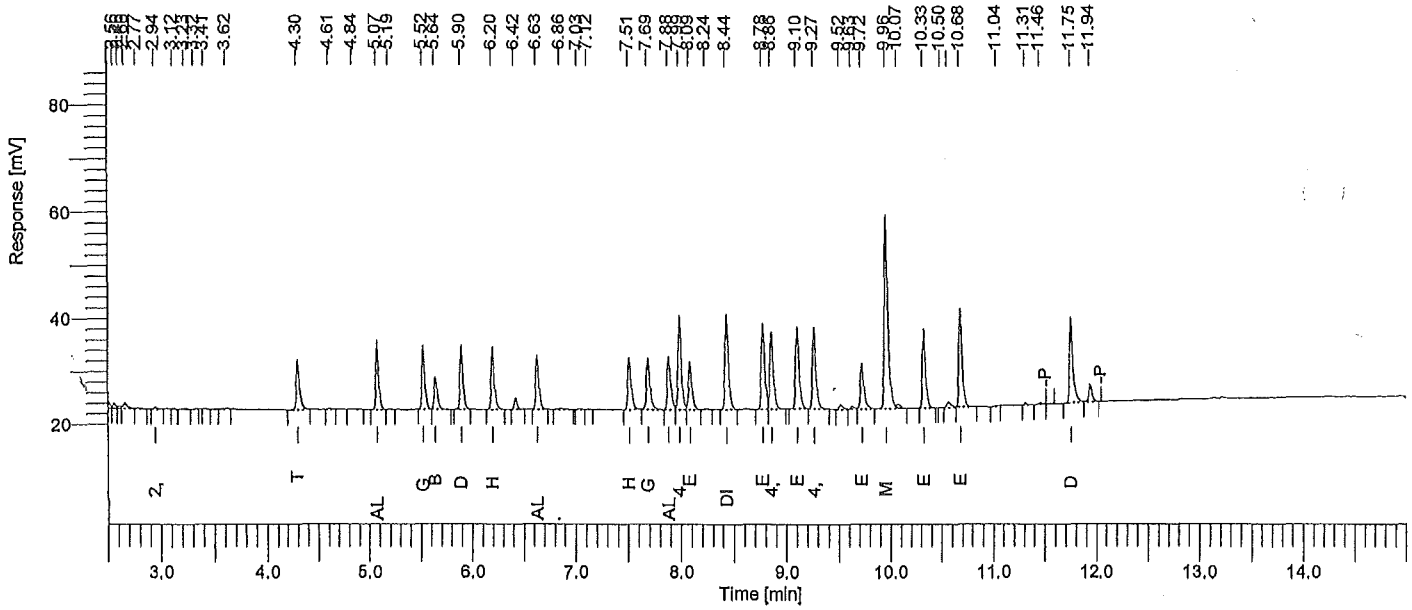

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST FLORISIL VALIDATION REPORT

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
7.86	alpha-Chlordane	23593	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		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/10/2015 03:27:04	Dilution Factor	: 1.00
		Cycle	: 2

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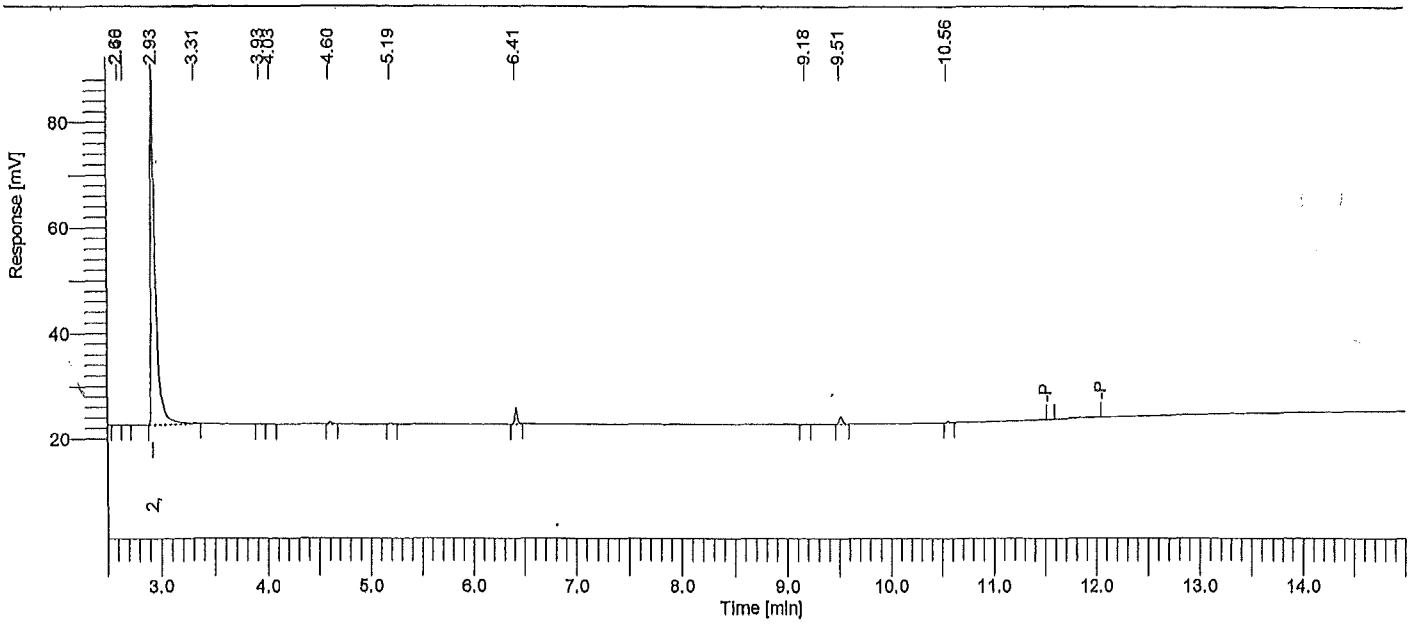

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area (µV·s)	Raw Amt ug/mL
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 03/09/2015 22:25:44	Cycle	: 3

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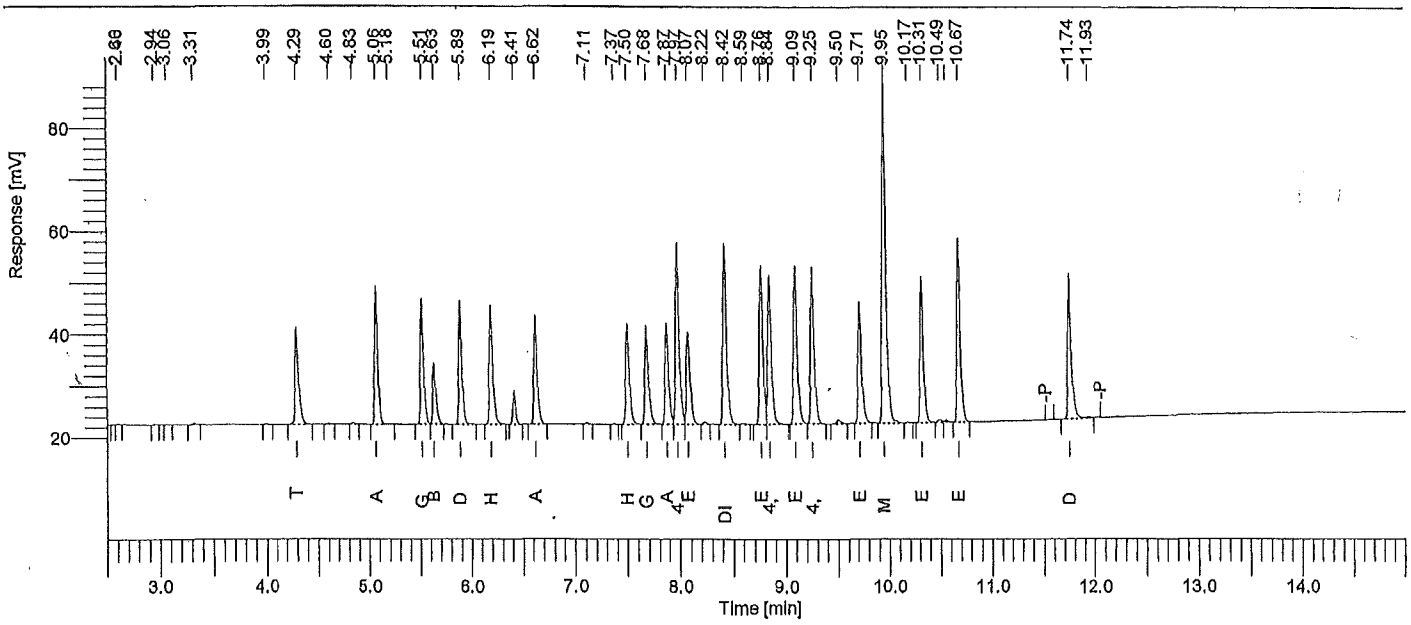

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.29	Tetrachloro-m-xylene	43632	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
7.66	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	0.0425846
10.67	Endrin ketone	63383	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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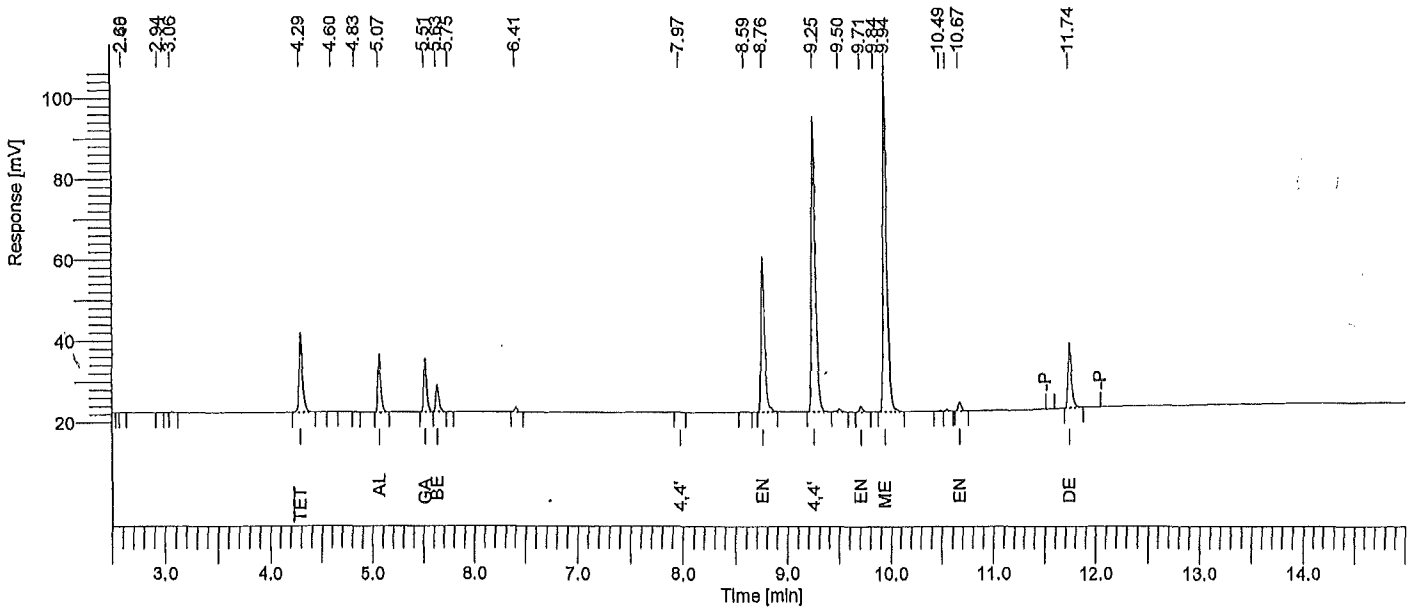

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

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	27981	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	0.0022368	0.0022368	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	0.0001448	0.0001446	0.10000	0.1
8.85	4,4'-DDD	0	0.0000000	0.0000000	----------	------
			0.0001448			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: \\Alsltws012\TCCS\sagers\GCE21\21150309\21_RPT_2UL\21_som_std_a.rpt
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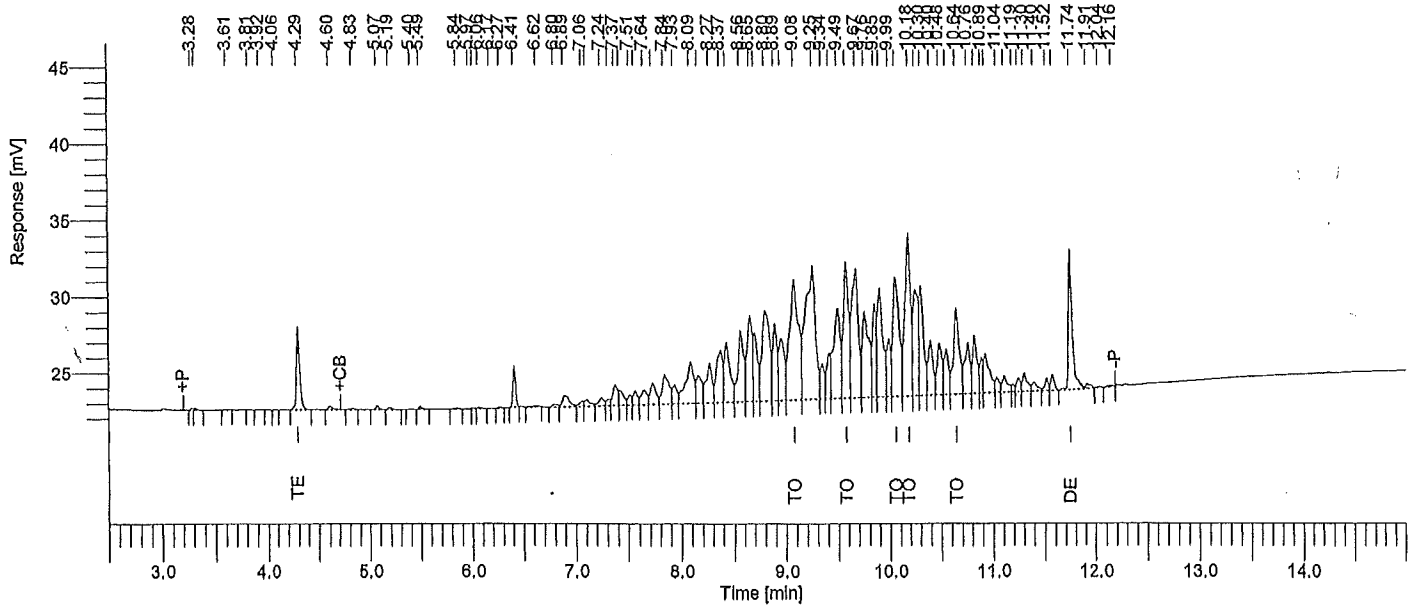

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

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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Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150309\21_RPT_2UL\21_som_std_a.rpt
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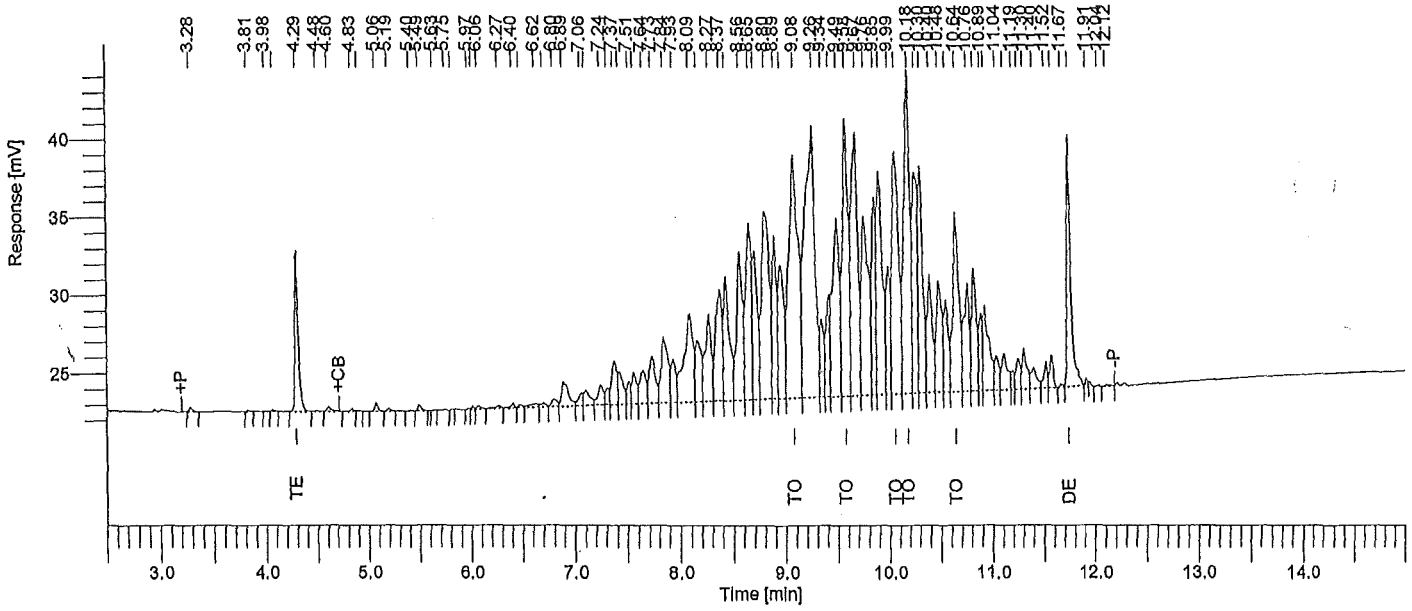

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.29	Tetrachloro-m-xylene	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	63667	1.0669208
10.64	Toxaphene-5	47203	1.0146190
11.74	Decachlorobiphenyl	41773	0.0209676

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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Report Format File: \\Alsltws012\TCCS\sagers\gce21\21150309\21_rpt_2ul\21_som12_ccv_a.rpt
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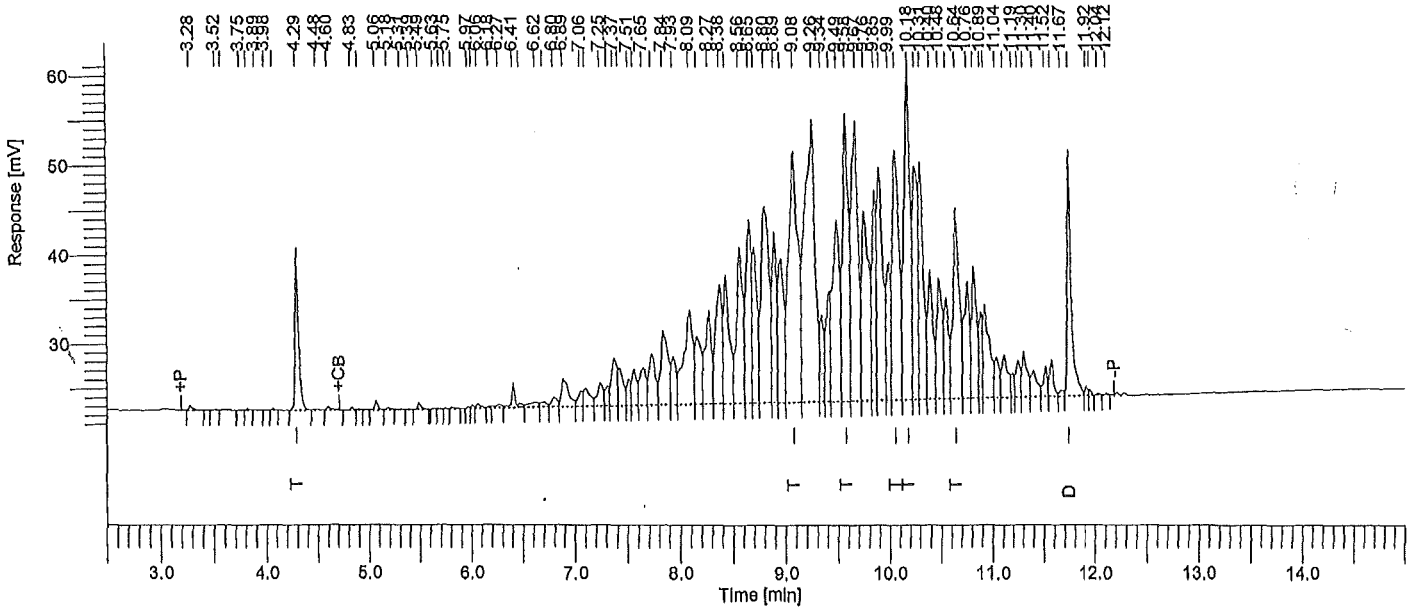

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.29	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 criteria 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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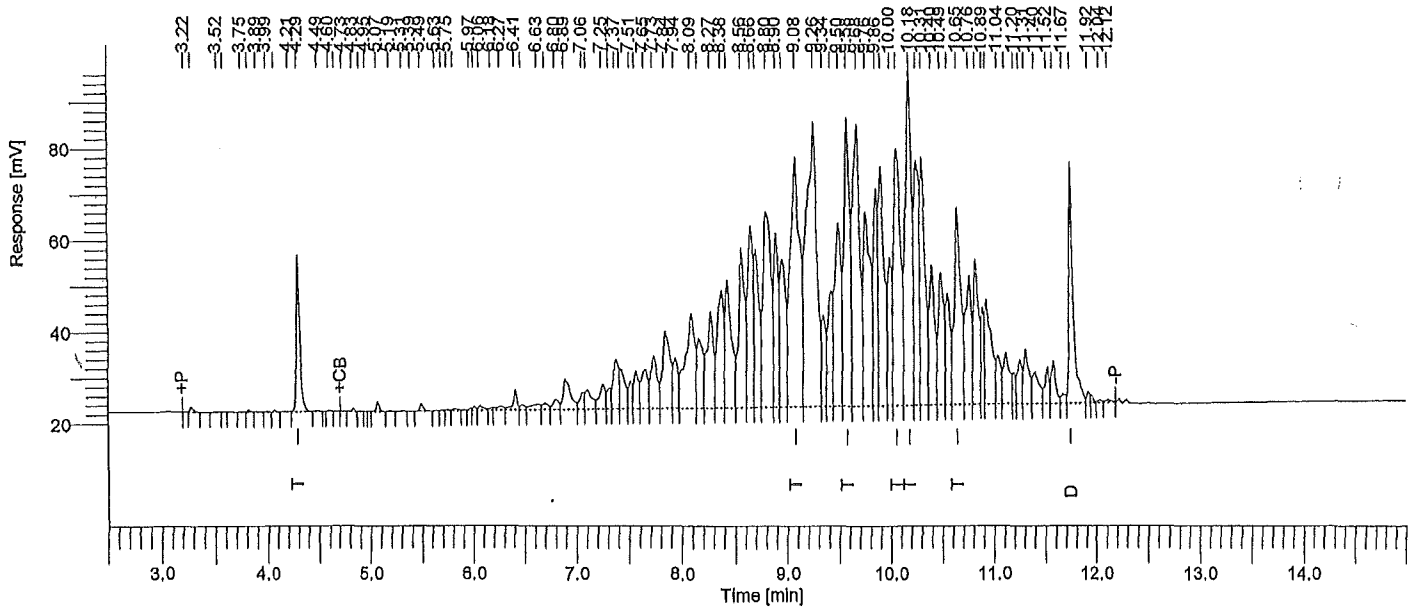

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

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	: 08/09/2015 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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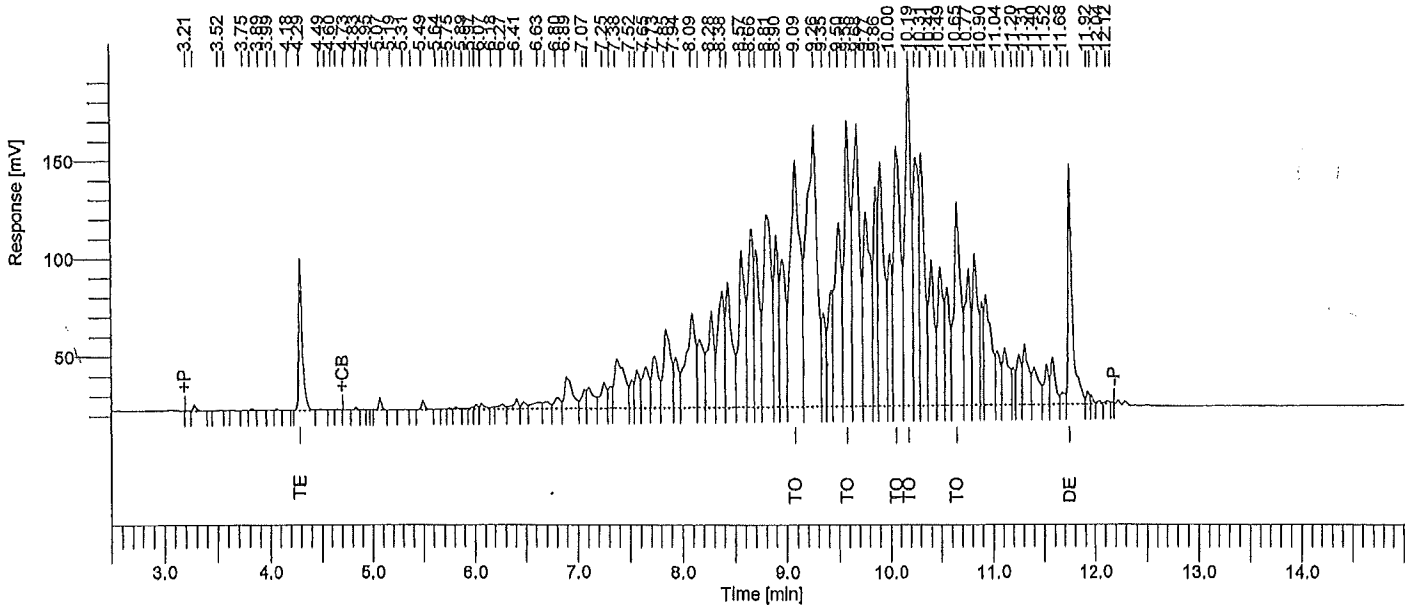
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150309\21_RPT_2UL\21_som_std_a.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150309\21150309_SOM012_PEST_FLO_A.seq



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	0.0866157
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	721633	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		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/10/2015 00:56:45	Dilution Factor	: 1.00
		Cycle	: 10

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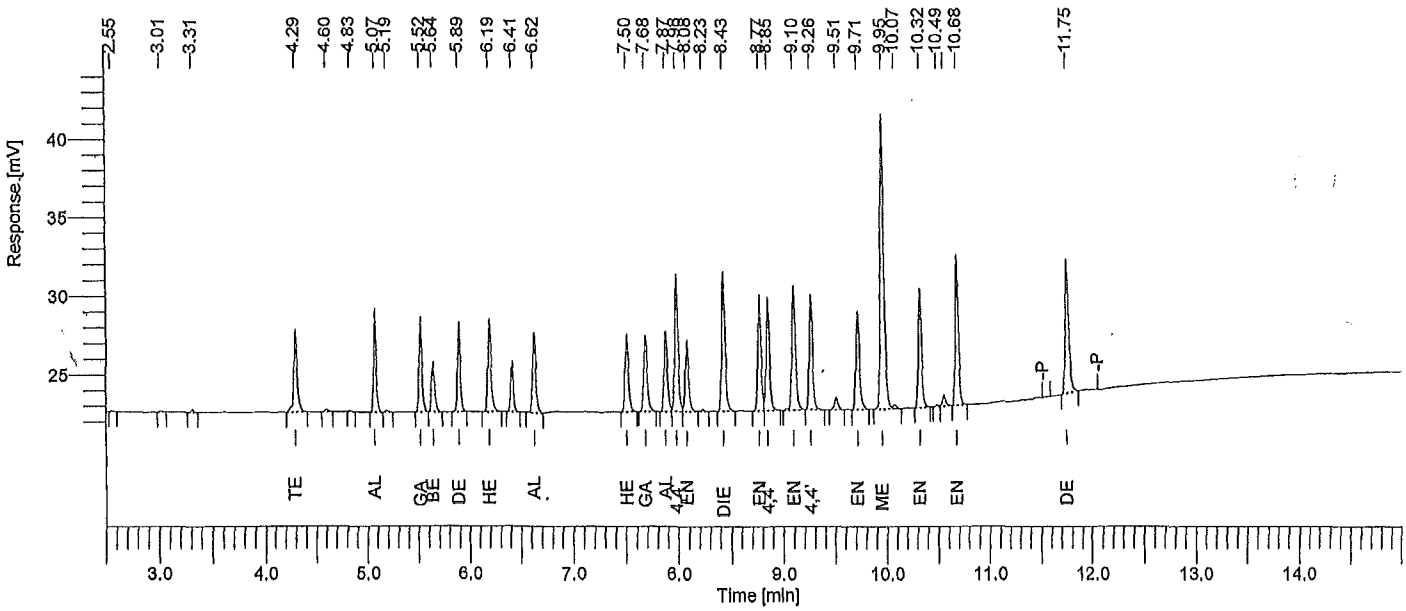

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.29	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	0.0105666
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	: 21583
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		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/10/2015 01:18:17	Dilution Factor	: 1.00
		Cycle	: 11

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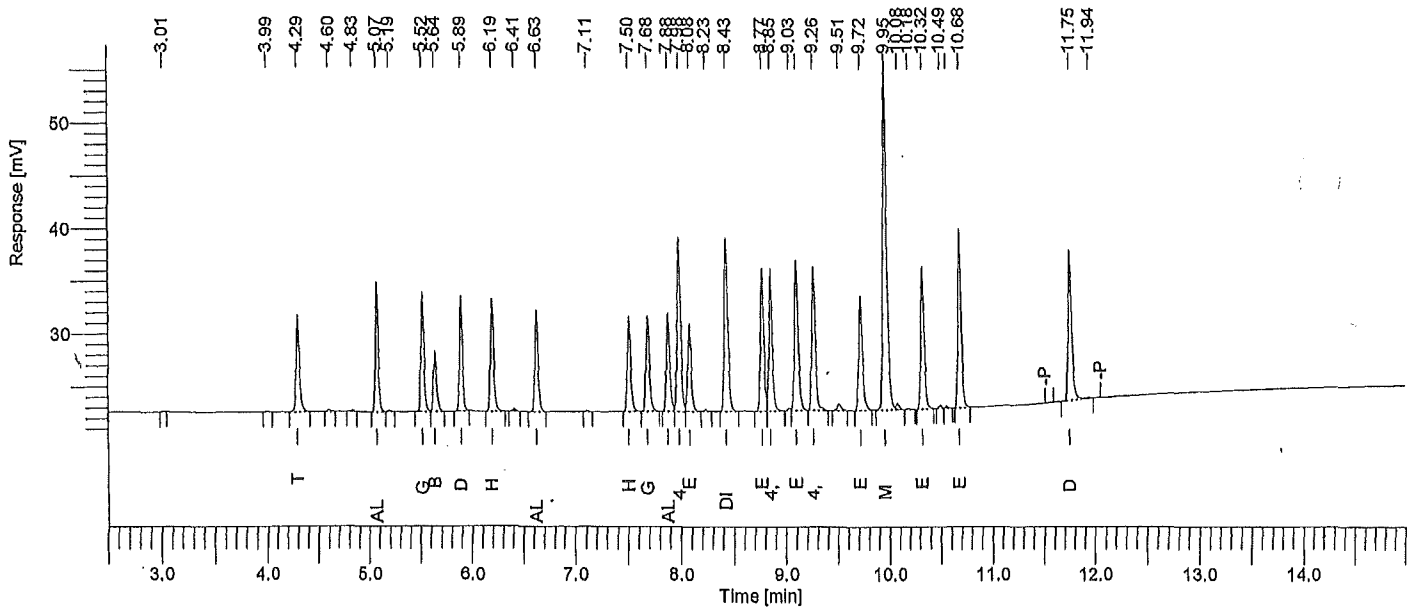

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

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	0.0198509
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		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/10/2015 01:39:45	Dilution Factor	: 1.00
		Cycle	: 12

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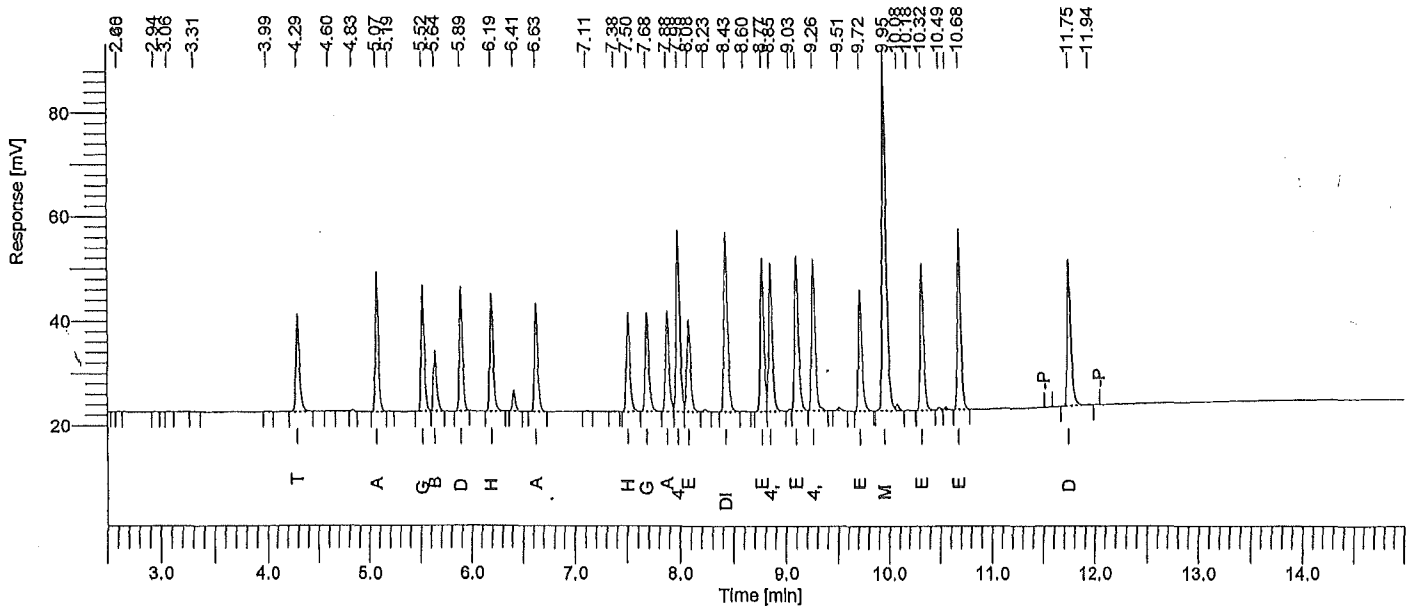

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

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	0.0210108	0.0200000	105.1
6.63	Aldrin	46984	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	83804	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	66670	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 >=80% primary, 50% confirmation. No resolution critreria 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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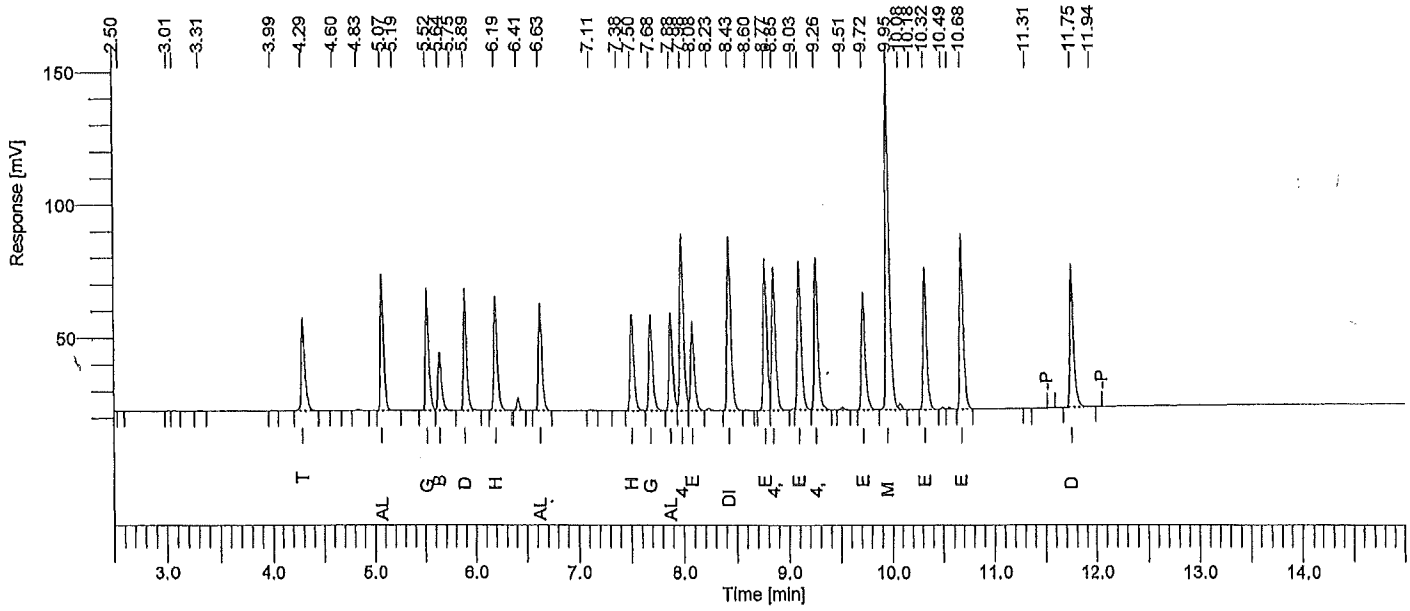

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

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	326137	0.3946384
10.32	Endosulfan sulfate	130343	0.0817863
10.68	Endrin ketone	157765	0.0804402
11.75	Decachlorobiphenyl	128981	0.0769809

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:38:58
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		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/10/2015 02:22:41	Dilution Factor	: 1.00
		Cycle	: 14

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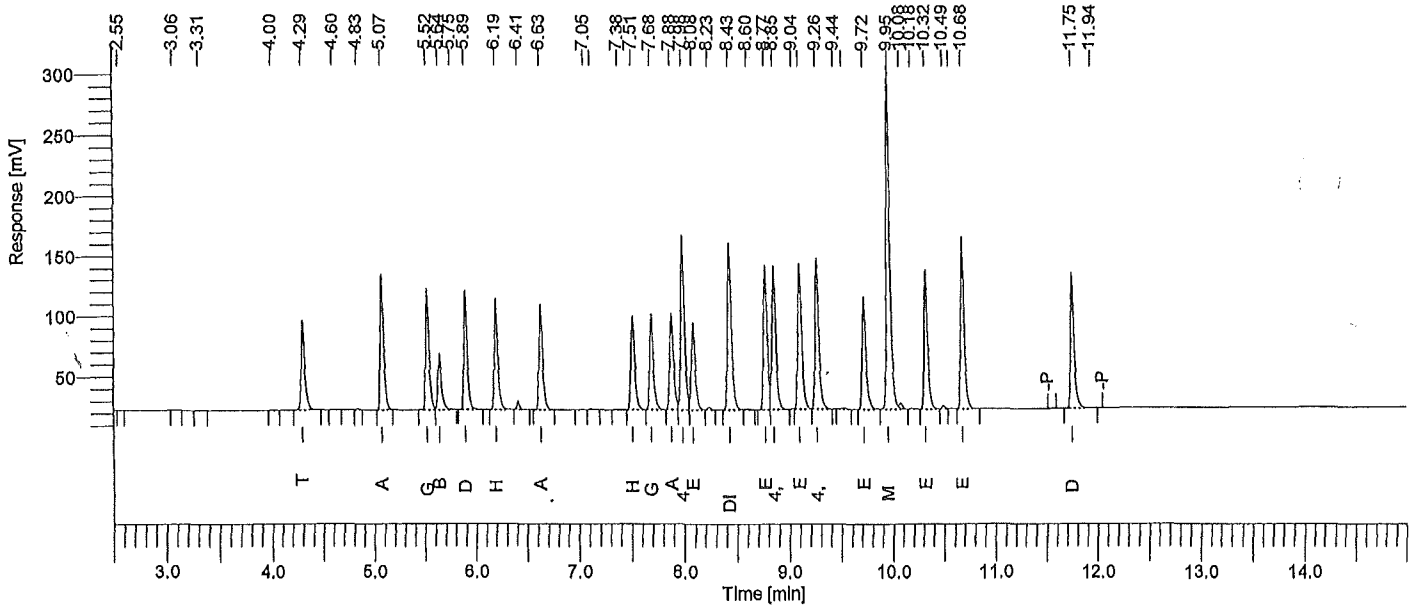

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.29	Tetrachloro-m-xylene	179447	0.0866470
5.07	alpha-BHC	256882	0.0960766
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	365365	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	0.8837387
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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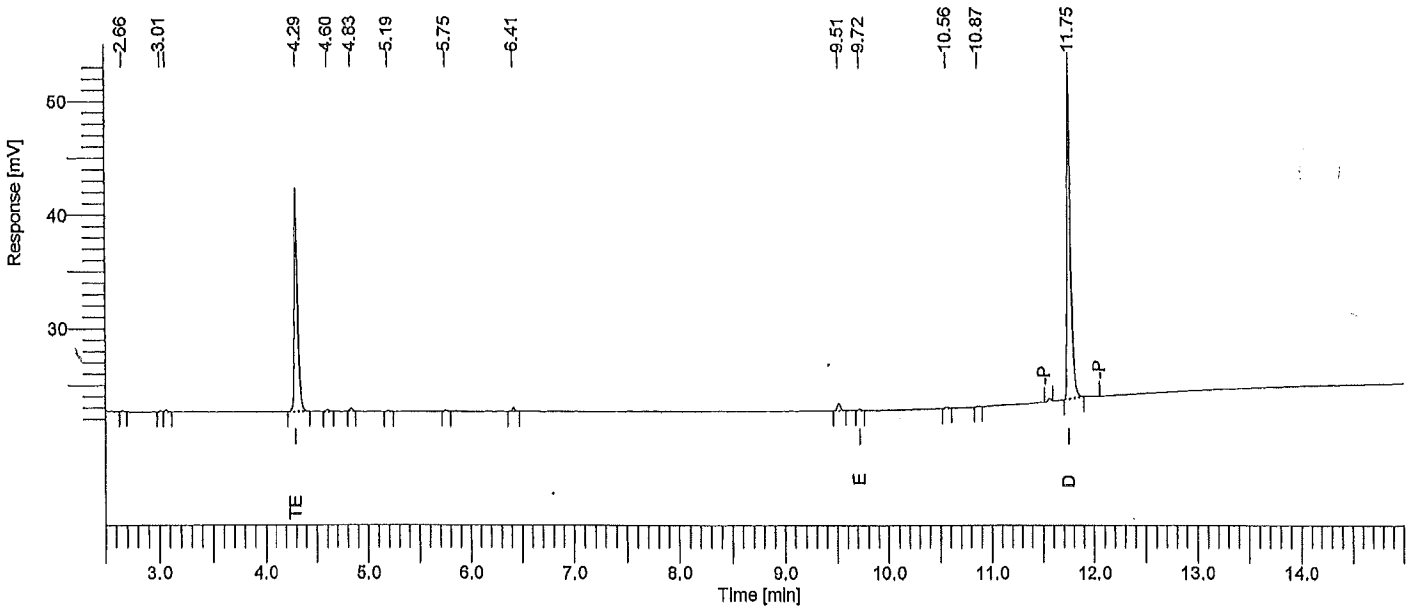

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

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	--------	-----
7.88	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	--------	-----
8.86	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	: 08/09/2015 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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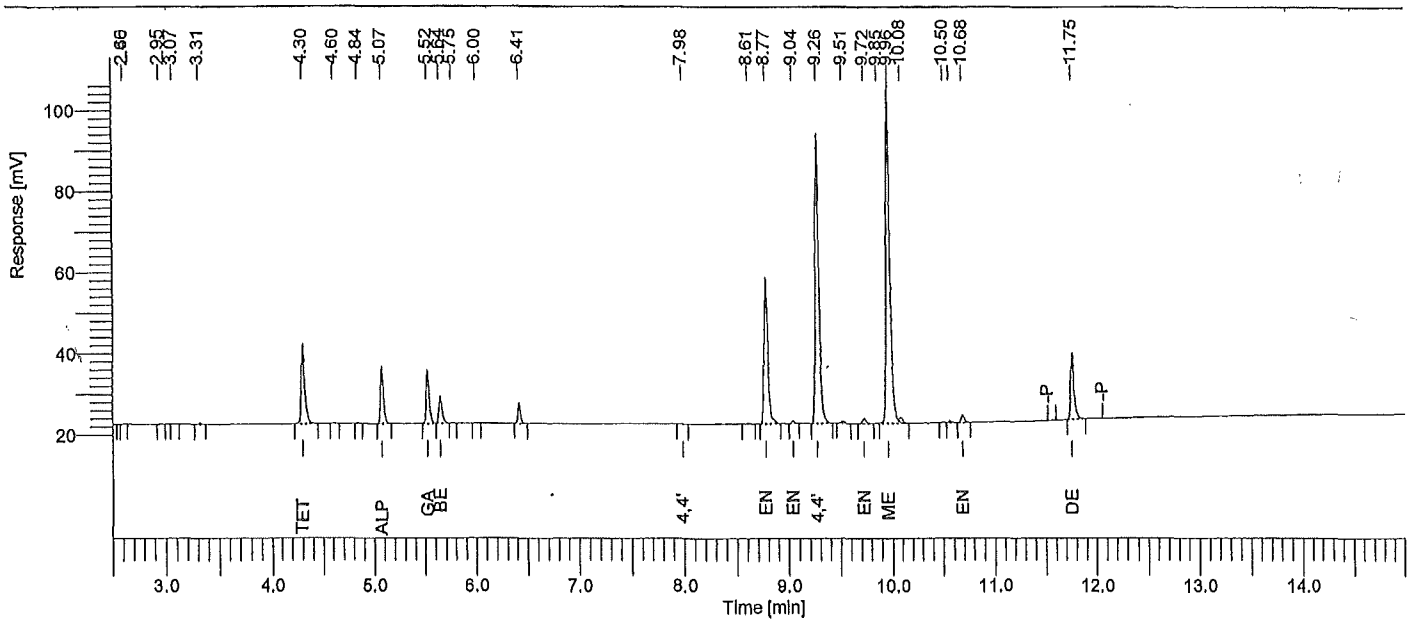

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

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	90290	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	161747	0.1067014	0.1067014	0.10000	106.7
9.72	Endrin aldehyde	2980	0.0020879	0.0020879	0.05000	4.2
9.98	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.: F9M21

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	76	83	100	110			0
02	ALCSS1	65	76	85	98			0
03	F9M21	78	90	91	104			0
04	F9M22	69	80	79	95			0
05	F9M23	90	94	124	129			0
06	F9M24	75	78	80	104			0
07	F9M25	77	83	71	96			0
08	F9M26	86	85	89	89			0
09	F9M27	77	92	80	100			0
10	F9M28	80	85	86	95			0
11	F9M29	85	89	85	95			0
12	F9M30	73	80	82	107			0
13	F9M31	83	92	86	101			0
14	F9M32	81	94	83	92			0
15	F9M33	69	71	92	83			0
16	F9M34	79	81	87	88			0
17	F9M35	75	75	82	79			0
18	F9M37	78	80	103	105			0
19	F9M38	98	102	101	114			0
20	F9M39	87	87	89	99			0
21	F9M40	80	91	108	109			0
22	F9M41	69	71	101	100			0
23	F9M27MS	74	72	85	82			0
24	F9M27MSD	71	78	75	82			0
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.: F9M21

Matrix Spike - EPA Sample No.: F9M27

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	160	0	150	94	29-135
AR1260	160	0	130	82	29-135

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
AR1016	160	150	92	2	0-15	29-135
AR1260	160	130	82	0	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.: F9M21

Matrix Spike - EPA Sample No.: F9M27

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	160	0	170	102	29-135
AR1260	160	0	160	100	29-135

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
AR1016	160	170	106	3	0-15	29-135
AR1260	160	170	106	5	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.: F9M21

Lab Sample ID: 450196 LCS Lot No.: _____

Date Extracted: 06/05/2015 Date Analyzed (1): 06/12/2015

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.	33.	99	50-150
AR1260	33.	35.	105	50-150

Instrument ID (2): GCE20 GC Column (2): RTXCLP2 ID: 0.32 (mm)

Date Analyzed (2): 06/12/2015

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC #	QC LIMITS
AR1016	33.	30.	89	50-150
AR1260	33.	36.	107	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.: F9M21

Lab File ID: 20150612A019,20150612B019 Lab Sample ID: 450194

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 06/05/2015

Sulfur Cleanup: (Y/N) Y GPC Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

Date Analyzed (1): 06/12/2015 Date Analyzed (2): 06/12/2015

Time Analyzed (1): 22:24 Time Analyzed (2): 22:40

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	450196	06/12/2015	06/12/2015
02	F9M21	1515542001	06/12/2015	06/12/2015
03	F9M22	1515542002	06/12/2015	06/12/2015
04	F9M23	1515542003	06/12/2015	06/12/2015
05	F9M24	1515542004	06/12/2015	06/13/2015
06	F9M25	1515542005	06/13/2015	06/13/2015
07	F9M26	1515542006	06/13/2015	06/13/2015
08	F9M27	1515542007	06/13/2015	06/13/2015
09	F9M28	1515542010	06/13/2015	06/13/2015
10	F9M29	1515542011	06/13/2015	06/13/2015
11	F9M30	1515542012	06/13/2015	06/13/2015
12	F9M31	1515542013	06/13/2015	06/13/2015
13	F9M32	1515542014	06/13/2015	06/13/2015
14	F9M33	1515542015	06/13/2015	06/13/2015
15	F9M34	1515542016	06/13/2015	06/13/2015
16	F9M35	1515542017	06/13/2015	06/13/2015
17	F9M37	1515542018	06/13/2015	06/13/2015
18	F9M38	1515542019	06/13/2015	06/13/2015
19	F9M39	1515542020	06/13/2015	06/13/2015
20	F9M40	1515542021	06/13/2015	06/13/2015
21	F9M41	1515542022	06/13/2015	06/13/2015
22	F9M27MS	1515542008	06/13/2015	06/13/2015
23	F9M27MSD	1515542009	06/13/2015	06/13/2015
24				
25				
26				

COMMENTS:

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M21

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542001

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20150612A021,20150612B021

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/12/2015

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	40.	U
11104-28-2	Aroclor-1221	40.	U
11141-16-5	Aroclor-1232	40.	U
53469-21-9	Aroclor-1242	40.	U
12672-29-6	Aroclor-1248	40.	U
11097-69-1	Aroclor-1254	40.	U
11096-82-5	Aroclor-1260	40.	U
37324-23-5	Aroclor-1262	40.	U
11100-14-4	Aroclor-1268	40.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:16:08
Operator	: borges	Sample Name	: 1515542001
Sample Number	: 21	Study	: F9M21
AutoSampler	: HP7673A	Rack/Vial	: 0/21
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	: 06/12/2015 22:56:25	Cycle	: 4

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_021.raw
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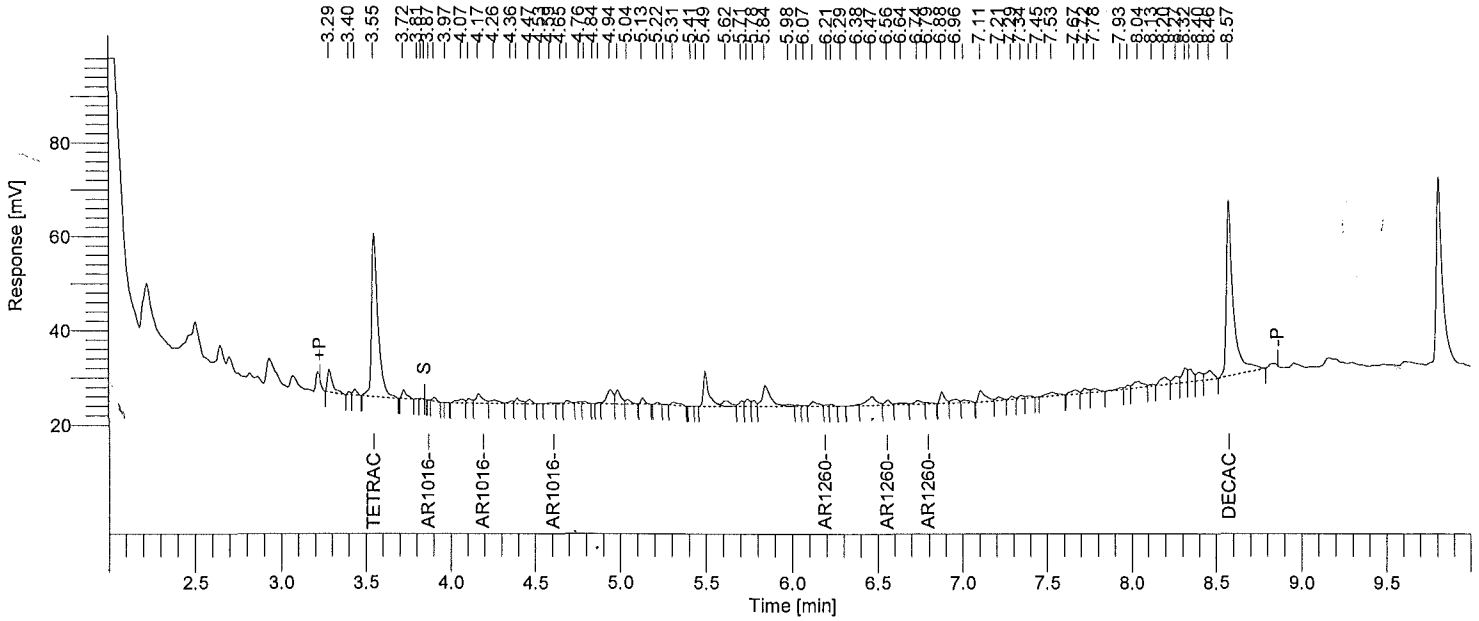
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612_SOM_AROS_F9M21_A.seq



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 %
3.55	Tetrachloro-m-xylene	91754	0.04709038	1	10	0.03003	0.999	1.6650	15.68111	19.98	78.5
3.87	AR1016-1	88	2.2594e-03	1	10	0.03003	0.999	33.3000	0.75239	0.00	------
4.17	AR1016-2	5392	0.06734896	1	10	0.03003	0.999	33.3000	22.42723	0.00	------
4.59	AR1016-3	719	4.7807e-03	1	10	0.03003	0.999	33.3000	1.59199	0.00	------
6.21	AR1260-1	566	6.4815e-03	1	10	0.03003	0.999	33.3000	2.15834	0.00	------
6.56	AR1260-2	2551	0.05013832	1	10	0.03003	0.999	33.3000	16.69608	0.00	------
6.79	AR1260-3	697	0.01239278	1	10	0.03003	0.999	33.3000	4.12680	0.00	------
8.57	Decachlorobiphenyl	104487	0.10934798	1	10	0.03003	0.999	3.3300	36.41291	39.96	91.1

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:17:07
Operator	: borges	Sample Name	: 1515542001
Sample Number	: 21	Study	: F9M21
AutoSampler	: HP7673A	Rack/Vial	: 0/21
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	: 06/12/2015 23:12:33	Cycle	: 5

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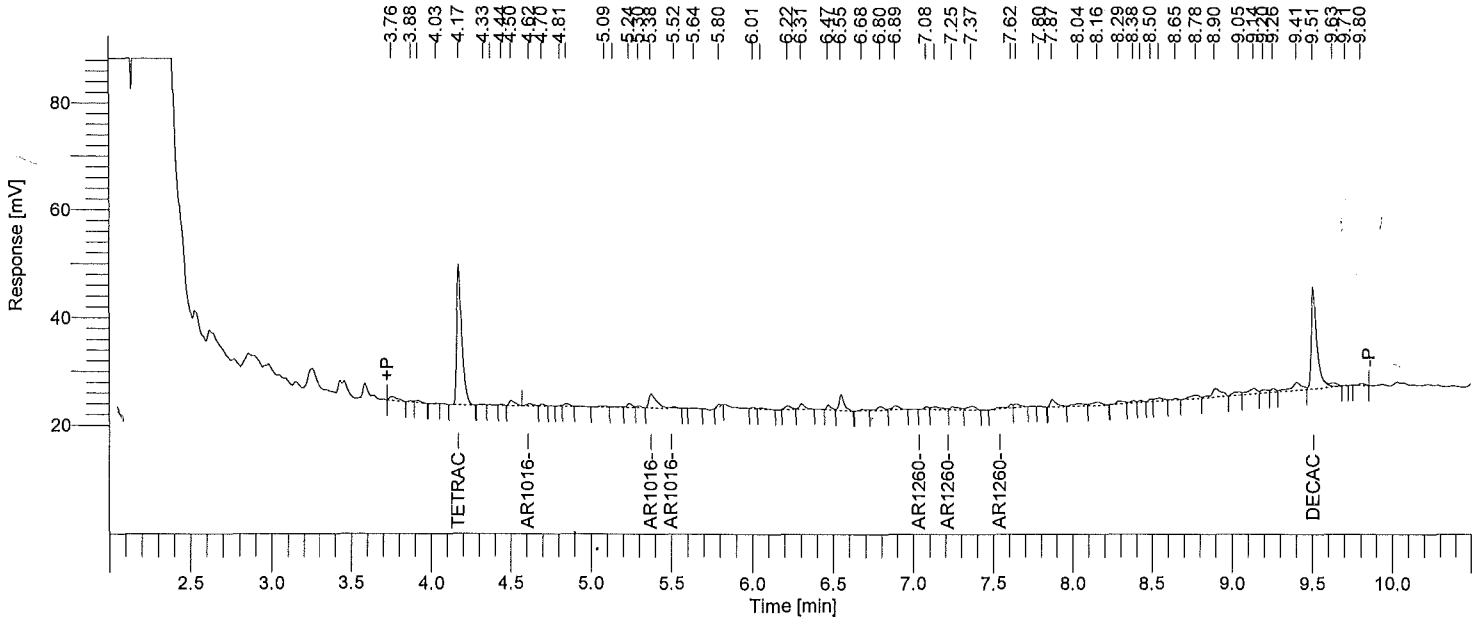

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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	57347	0.05379728	1	10	0.03003	0.999	1.6650	17.91451	19.98	89.7
4.62	AR1016-1	1143	0.05005768	1	10	0.03003	0.999	33.3000	16.66922	0.00	------
5.38	AR1016-2	9063	0.12584760	1	10	0.03003	0.999	33.3000	41.90729	0.00	------
5.52	AR1016-3	487	0.01560292	1	10	0.03003	0.999	33.3000	5.19578	0.00	------
7.08	AR1260-1	962	0.02305359	1	10	0.03003	0.999	33.3000	7.67685	0.00	------
7.25	AR1260-2	2317	0.05335601	1	10	0.03003	0.999	33.3000	17.76757	0.00	------
7.54	AR1260-3	0	0.00000000	1	10	0.03003	0.999	---------	0.00000	--------	------
9.51	Decachlorobiphenyl	44716	0.12442105	1	10	0.03003	0.999	3.3300	41.43225	39.96	103.7

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M22

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542002

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 20150612A022,20150612B022

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1 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	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	: 06/16/2015 19:16:10
Operator	: borges	Sample Name	: 1515542002
Sample Number	: 22	Study	: F9M22
AutoSampler	: HP7673A	Rack/Vial	: 0/22
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	: 06/12/2015 23:12:33	Cycle	: 5

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Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_022.rst
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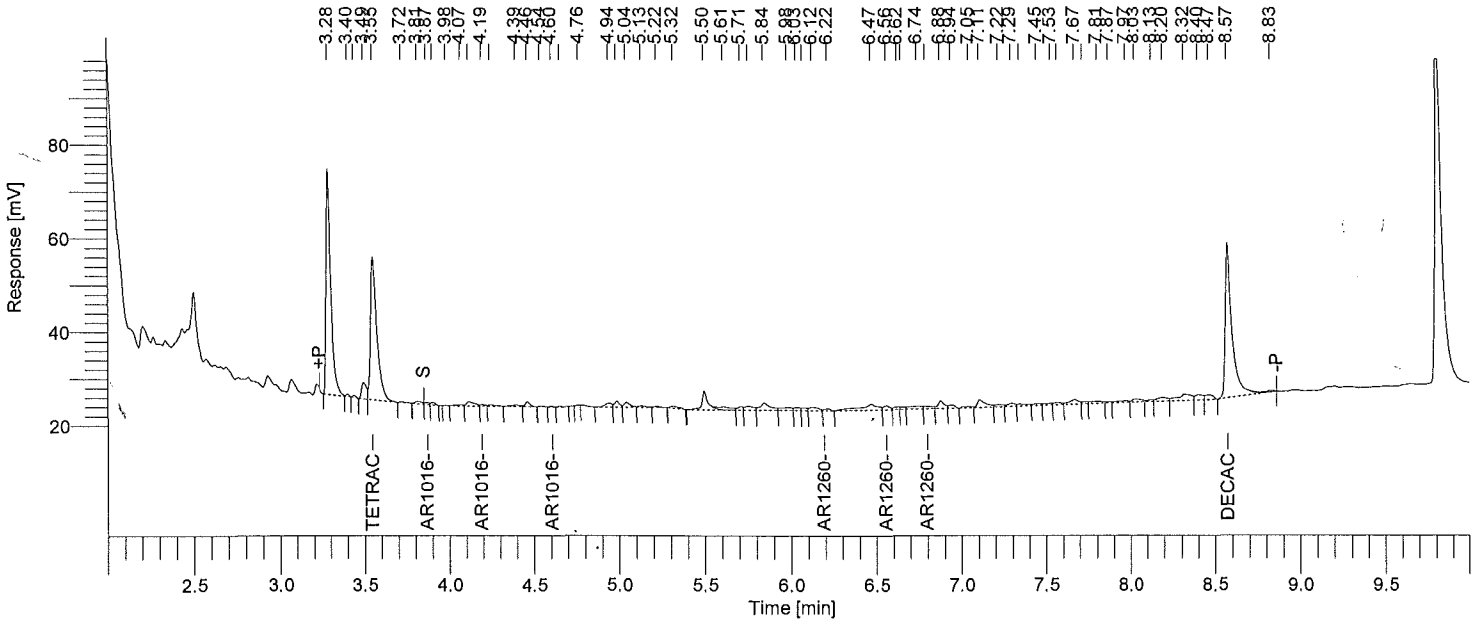

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
3.55	Tetrachloro-m-xylene	80180	0.04115011	1	10	0.03025	0.992	1.6529	13.60334	19.83	68.6
3.87	AR1016-1	873	0.02252577	1	10	0.03025	0.992	33.0579	7.44654	0.00	------
4.19	AR1016-2	678	8.4731e-03	1	10	0.03025	0.992	33.0579	2.80103	0.00	------
4.60	AR1016-3	263	1.7505e-03	1	10	0.03025	0.992	33.0579	0.57867	0.00	------
6.22	AR1260-1	1192	0.01364482	1	10	0.03025	0.992	33.0579	4.51068	0.00	------
6.56	AR1260-2	2400	0.04717166	1	10	0.03025	0.992	33.0579	15.59394	0.00	------
6.79	AR1260-3	2017	0.03585854	1	10	0.03025	0.992	33.0579	11.85406	0.00	------
8.57	Decachlorobiphenyl	90061	0.09425122	1	10	0.03025	0.992	3.3058	31.15743	39.67	78.5

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:17:09
Operator	: borges	Sample Name	: 1515542002
Sample Number	: 22	Study	: F9M22
AutoSampler	: HP7673A	Rack/Vial	: 0/22
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	: 06/12/2015 23:28:43	Cycle	: 6

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_022.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_022.rst
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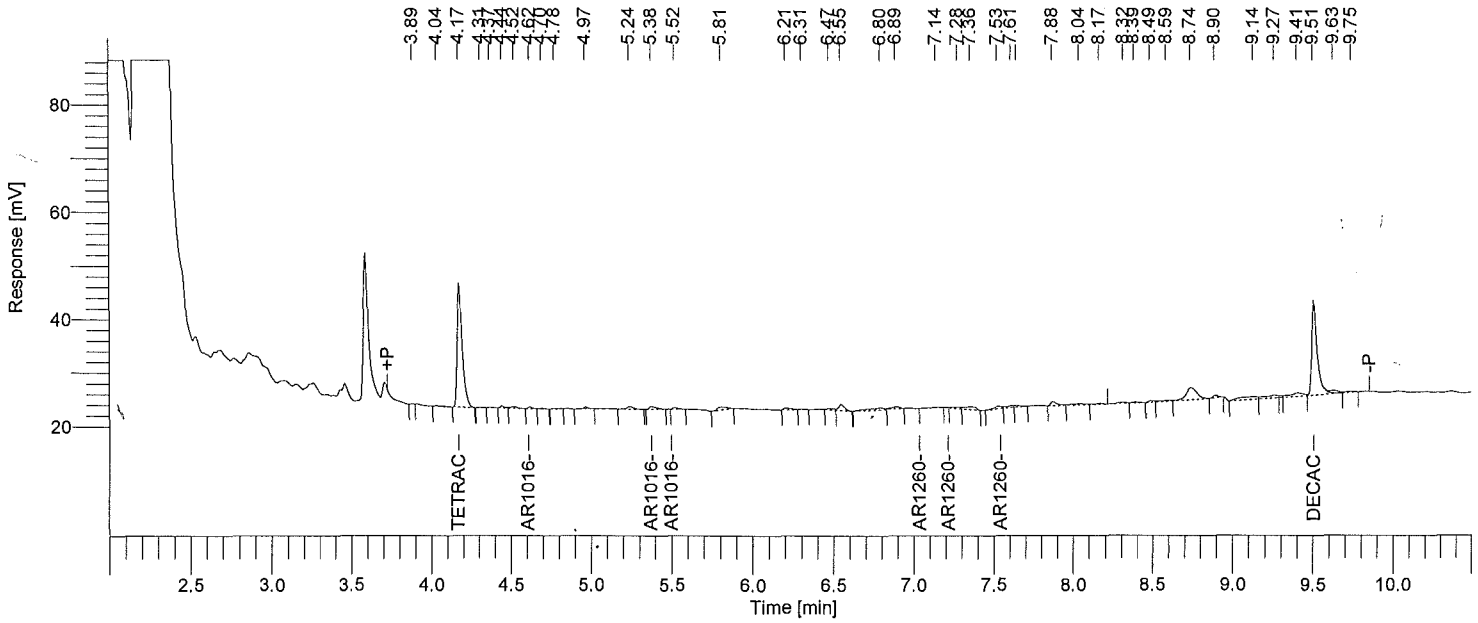
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_022.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_022.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612_SOM_AROS_F9M21_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	50964	0.04780909	1	10	0.03025	0.992	1.6529	15.80466	19.83	79.7
4.62	AR1016-1	647	0.02836375	1	10	0.03025	0.992	33.0579	9.37645	0.00	------
5.38	AR1016-2	1603	0.02226436	1	10	0.03025	0.992	33.0579	7.36012	0.00	------
5.52	AR1016-3	668	0.02140533	1	10	0.03025	0.992	33.0579	7.07614	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	1599	0.03303551	1	10	0.03025	0.992	33.0579	10.92083	0.00	------
9.51	Decachlorobiphenyl	40896	0.11379202	1	10	0.03025	0.992	3.3058	37.61720	39.67	94.8

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M23

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542003

Sample wt/vol: 30.5 (g/mL) g Lab File ID: 20150612A023,20150612B023

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/12/2015

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	38.	U
11104-28-2	Aroclor-1221	38.	U
11141-16-5	Aroclor-1232	38.	U
53469-21-9	Aroclor-1242	38.	U
12672-29-6	Aroclor-1248	38.	U
11097-69-1	Aroclor-1254	38.	U
11096-82-5	Aroclor-1260	38.	U
37324-23-5	Aroclor-1262	38.	U
11100-14-4	Aroclor-1268	38.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:16:12
Operator	: borges	Sample Name	: 1515542003
Sample Number	: 23	Study	: F9M23
AutoSampler	: HP7673A	Rack/Vial	: 0/23
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	: 06/12/2015 23:28:43	Cycle	: 6

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_023.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_023.rst
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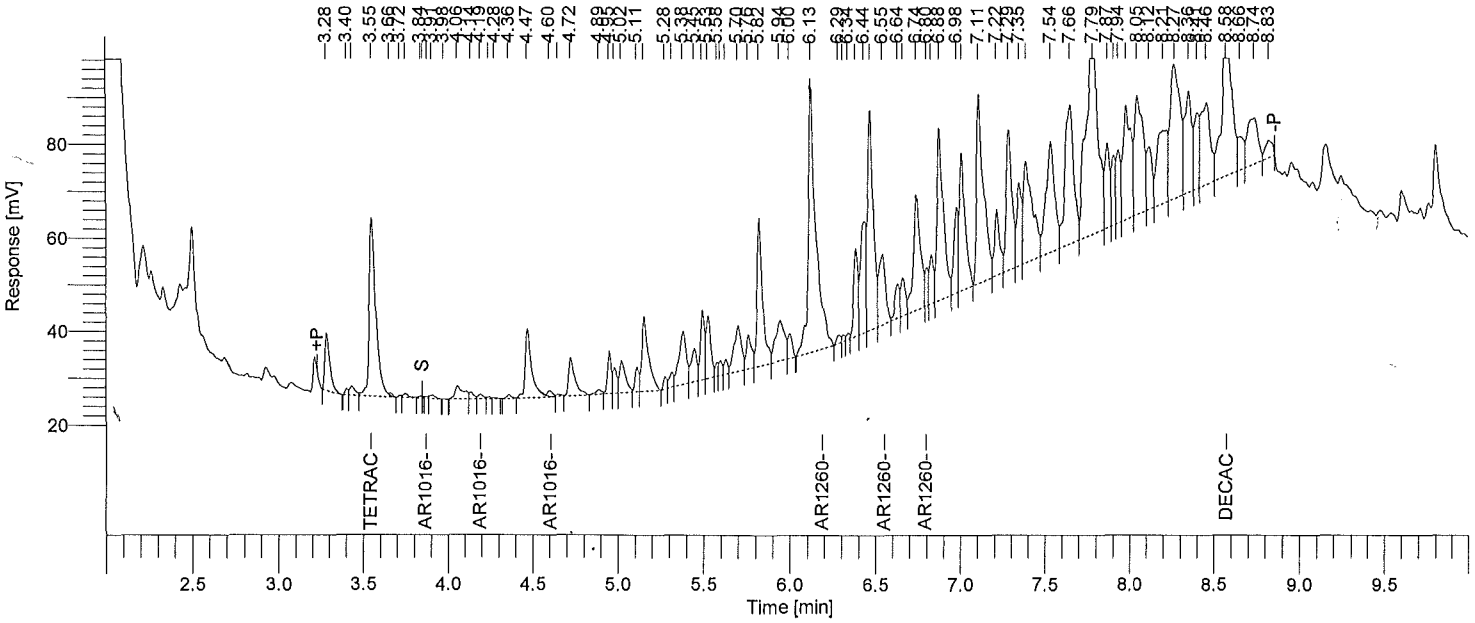
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_023.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612_SOM_AROS_F9M21_A.seq



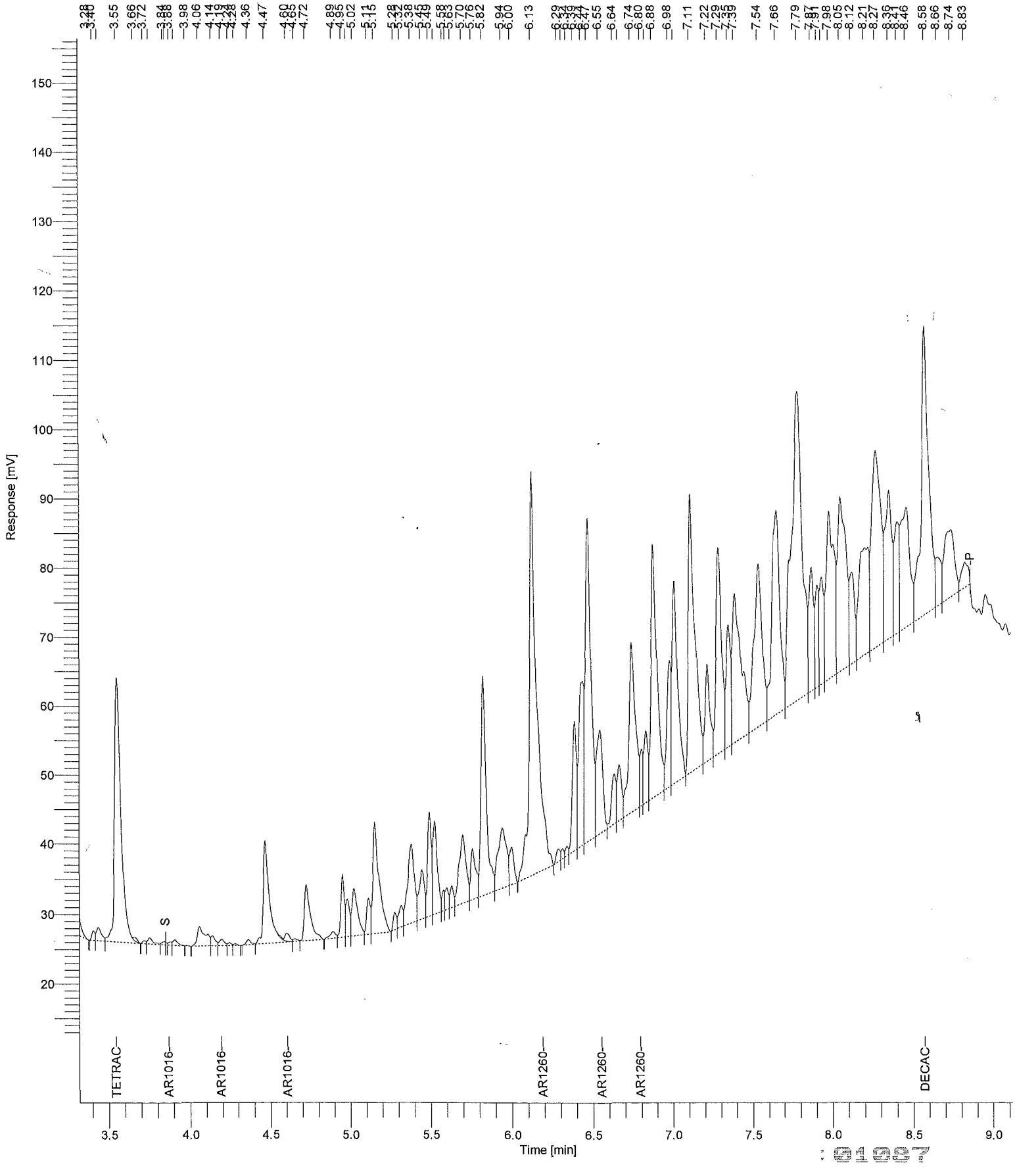
Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
3.55	Tetrachloro-m-xylene	104989	0.05388257	1	10	0.03046	0.985	1.6415	17.68961	19.70	89.8
3.88	AR1016-1	678	0.01750057	1	10	0.03046	0.985	32.8299	5.74543	0.00	------
4.19	AR1016-2	1999	0.02496512	1	10	0.03046	0.985	32.8299	8.19603	0.00	------
4.60	AR1016-3	2862	0.01903724	1	10	0.03046	0.985	32.8299	6.24992	0.00	------
6.19	AR1260-1	0	0.00000000	1	10	0.03046	0.985	---------	0.00000	--------	------
6.55	AR1260-2	42347	0.83223394	1	10	0.03046	0.985	32.8299	273.22191	0.00	------
6.80	AR1260-3	10243	0.18213968	1	10	0.03046	0.985	32.8299	59.79635	0.00	------
8.58	Decachlorobiphenyl	142086	0.14869699	1	10	0.03046	0.985	3.2830	48.81714	39.40	123.9

One surrogate 30-150% for field samples, both for method blank.

Chromatogram

Sample Name : 1515542003 Sample #: 23 Page 1 of 1
FileName : T:\borges\GCE20\20150612\20150612A_023.raw
Date : 06/21/2015 10:14:01
Method : Time of Injection: 06/12/2015 23:28:43
Start Time : 3.32 min End Time : 9.12 min Low Point : 12.43 mV High Point : 156.41 mV
Plot Offset: 12.43 mV Plot Scale: 144.0 mV



Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:17:11
Operator	: borges	Sample Name	: 1515542003
Sample Number	: 23	Study	: F9M23
AutoSampler	: HP7673A	Rack/Vial	: 0/23
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	: 06/12/2015 23:44:47	Cycle	: 7

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_023.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_023.rst
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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
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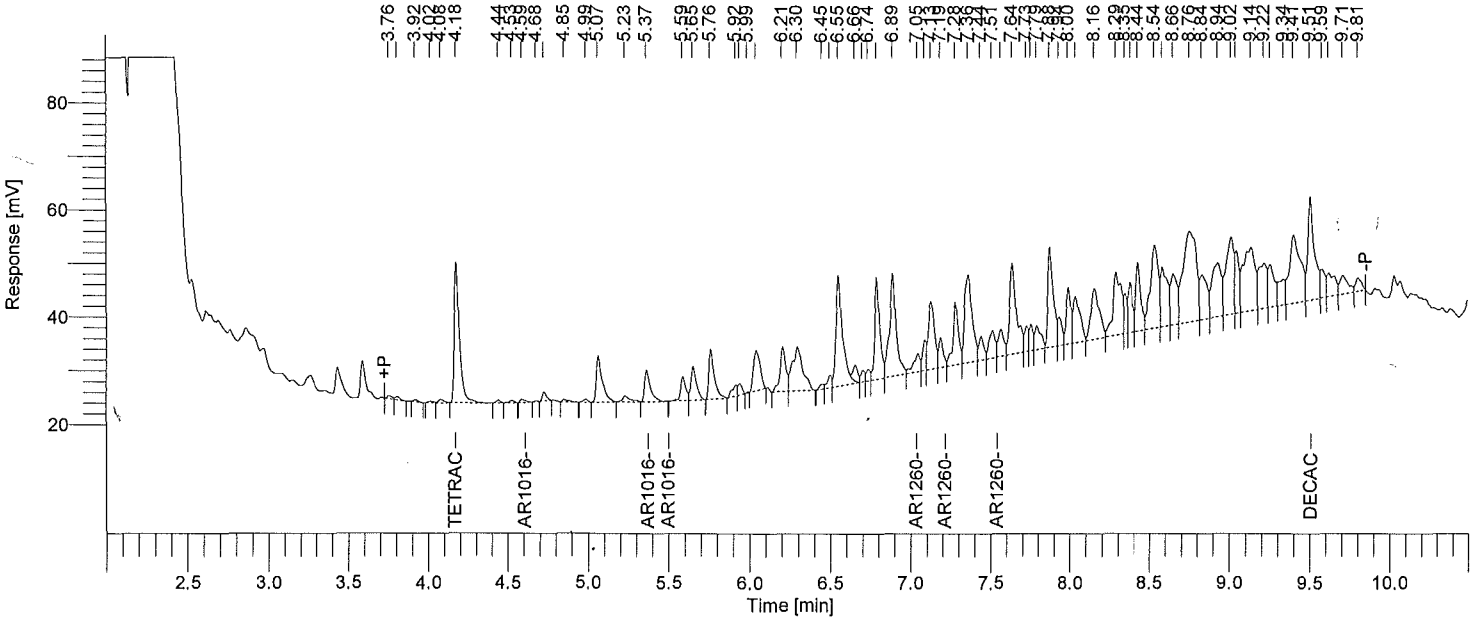

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.18	Tetrachloro-m-xylene	60144	0.05642068	1	10	0.03046	0.985	1.6415	18.52288	19.70	94.0
4.59	AR1016-1	1433	0.06277622	1	10	0.03046	0.985	32.8299	20.60940	0.00	------
5.37	AR1016-2	15323	0.21276247	1	10	0.03046	0.985	32.8299	69.84979	0.00	------
5.50	AR1016-3	0	0.00000000	1	10	0.03046	0.985	---------	0.00000	--------	------
7.05	AR1260-1	9429	0.22584923	1	10	0.03046	0.985	32.8299	74.14617	0.00	------
7.19	AR1260-2	10987	0.25302755	1	10	0.03046	0.985	32.8299	83.06879	0.00	------
7.51	AR1260-3	13937	0.28790532	1	10	0.03046	0.985	32.8299	94.51914	0.00	------
9.51	Decachlorobiphenyl	55650	0.15484284	1	10	0.03046	0.985	3.2830	50.83481	39.40	129.0

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M24

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542004

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 20150612A024,20150612B024

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/13/2015

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	38.	U
11104-28-2	Aroclor-1221	38.	U
11141-16-5	Aroclor-1232	38.	U
53469-21-9	Aroclor-1242	38.	U
12672-29-6	Aroclor-1248	38.	U
11097-69-1	Aroclor-1254	38.	U
11096-82-5	Aroclor-1260	38.	U
37324-23-5	Aroclor-1262	38.	U
11100-14-4	Aroclor-1268	38.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:16:13
Operator	: borges	Sample Name	: 1515542004
Sample Number	: 24	Study	: F9M24
AutoSampler	: HP7673A	Rack/Vial	: 0/24
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	: 06/12/2015 23:44:47	Cycle	: 7

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_024.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_024.rst
Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150612\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_024.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_024.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_024.rst
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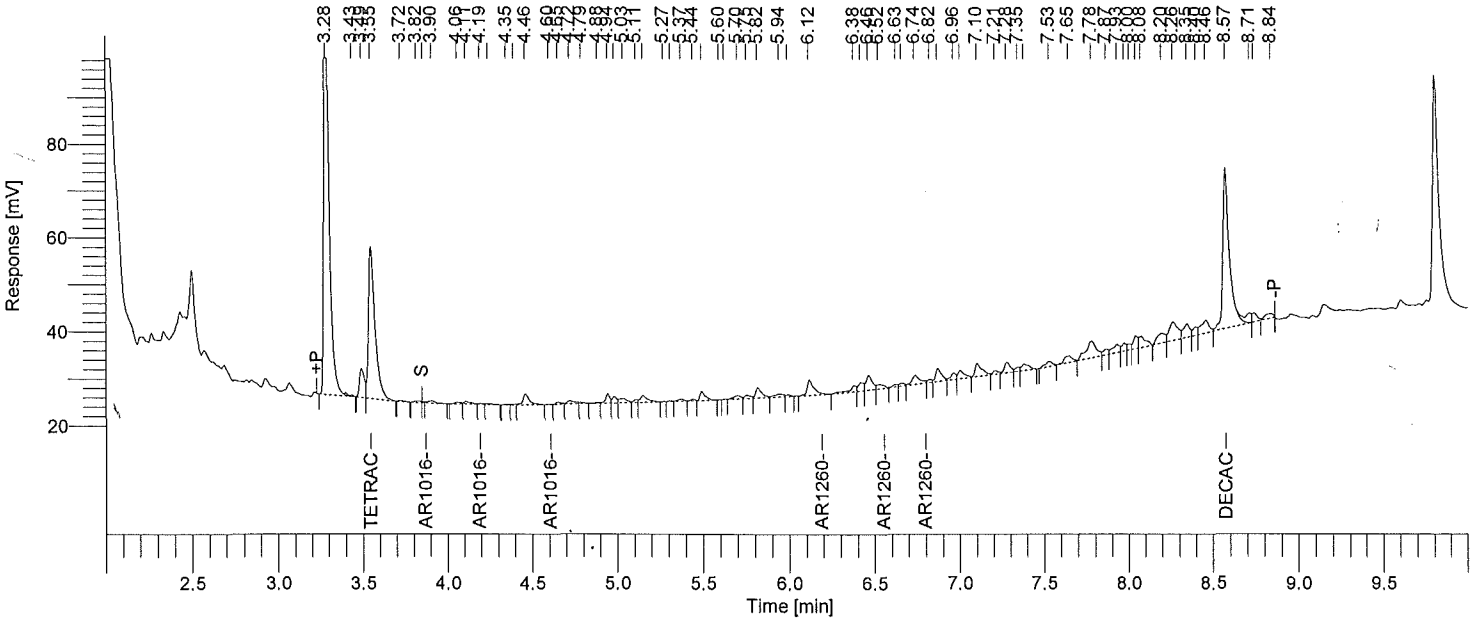


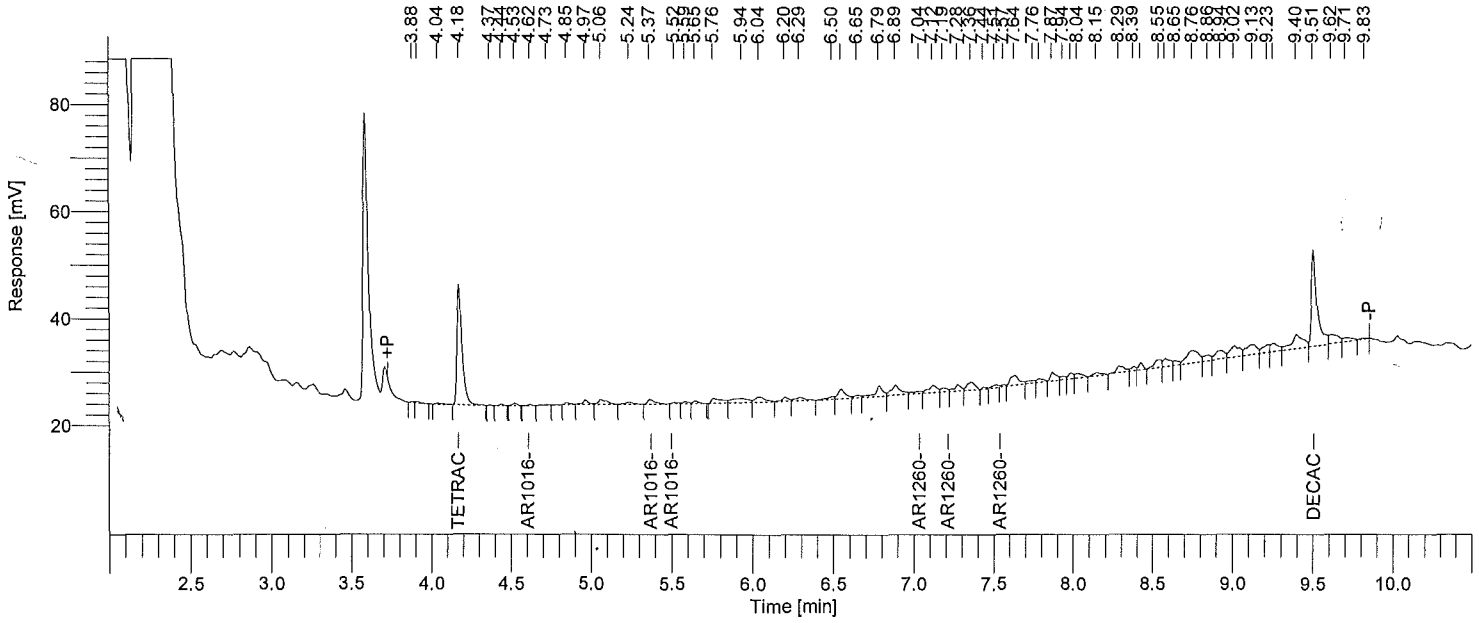
Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
3.55	Tetrachloro-m-xylene	87345	0.04482740	1	10	0.03006	0.998	1.6633	14.91264	19.96	74.7
3.85	AR1016-1	205	5.2988e-03	1	10	0.03006	0.998	33.2668	1.76275	0.00	------
4.19	AR1016-2	237	2.9592e-03	1	10	0.03006	0.998	33.2668	0.98442	0.00	------
4.60	AR1016-3	270	1.7965e-03	1	10	0.03006	0.998	33.2668	0.59765	0.00	------
6.19	AR1260-1	0	0.00000000	1	10	0.03006	0.998	---------	0.00000	--------	------
6.52	AR1260-2	2961	0.05818424	1	10	0.03006	0.998	33.2668	19.35603	0.00	------
6.82	AR1260-3	1215	0.02161066	1	10	0.03006	0.998	33.2668	7.18918	0.00	------
8.57	Decachlorobiphenyl	91374	0.09562571	1	10	0.03006	0.998	3.3267	31.81161	39.92	79.7

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:17:14
Operator	: borges	Sample Name	: 1515542004
Sample Number	: 24	Study	: F9M24
AutoSampler	: HP7673A	Rack/Vial	: 0/24
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	: 06/13/2015 00:00:53	Cycle	: 8

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_024.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_024.rst
Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150612\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_024.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_024.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_024.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612_SOM_AROS_F9M21_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 %
4.18	Tetrachloro-m-xylene	50036	0.04693861	1	10	0.03006	0.998	1.6633	15.61497	19.96	78.2
4.62	AR1016-1	377	0.01649528	1	10	0.03006	0.998	33.2668	5.48745	0.00	------
5.37	AR1016-2	3084	0.04282068	1	10	0.03006	0.998	33.2668	14.24507	0.00	------
5.52	AR1016-3	527	0.01690905	1	10	0.03006	0.998	33.2668	5.62510	0.00	------
7.04	AR1260-1	1841	0.04408951	1	10	0.03006	0.998	33.2668	14.66717	0.00	------
7.19	AR1260-2	2108	0.04855818	1	10	0.03006	0.998	33.2668	16.15375	0.00	------
7.57	AR1260-3	696	0.01437087	1	10	0.03006	0.998	33.2668	4.78073	0.00	------
9.51	Decachlorobiphenyl	44652	0.12424246	1	10	0.03006	0.998	3.3267	41.33149	39.92	103.5

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M25

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542005

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 20150612A025,20150612B025

% Moisture: 24. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/13/2015

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	43.	U
11104-28-2	Aroclor-1221	43.	U
11141-16-5	Aroclor-1232	43.	U
53469-21-9	Aroclor-1242	43.	U
12672-29-6	Aroclor-1248	43.	U
11097-69-1	Aroclor-1254	43.	U
11096-82-5	Aroclor-1260	43.	U
37324-23-5	Aroclor-1262	43.	U
11100-14-4	Aroclor-1268	43.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:16:26
Operator	: borges	Sample Name	: 1515542005
Sample Number	: 25	Study	: F9M25
AutoSampler	: HP7673A	Rack/Vial	: 0/25
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	: 06/13/2015 00:00:53	Cycle	: 8

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_025.raw
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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_025.rst
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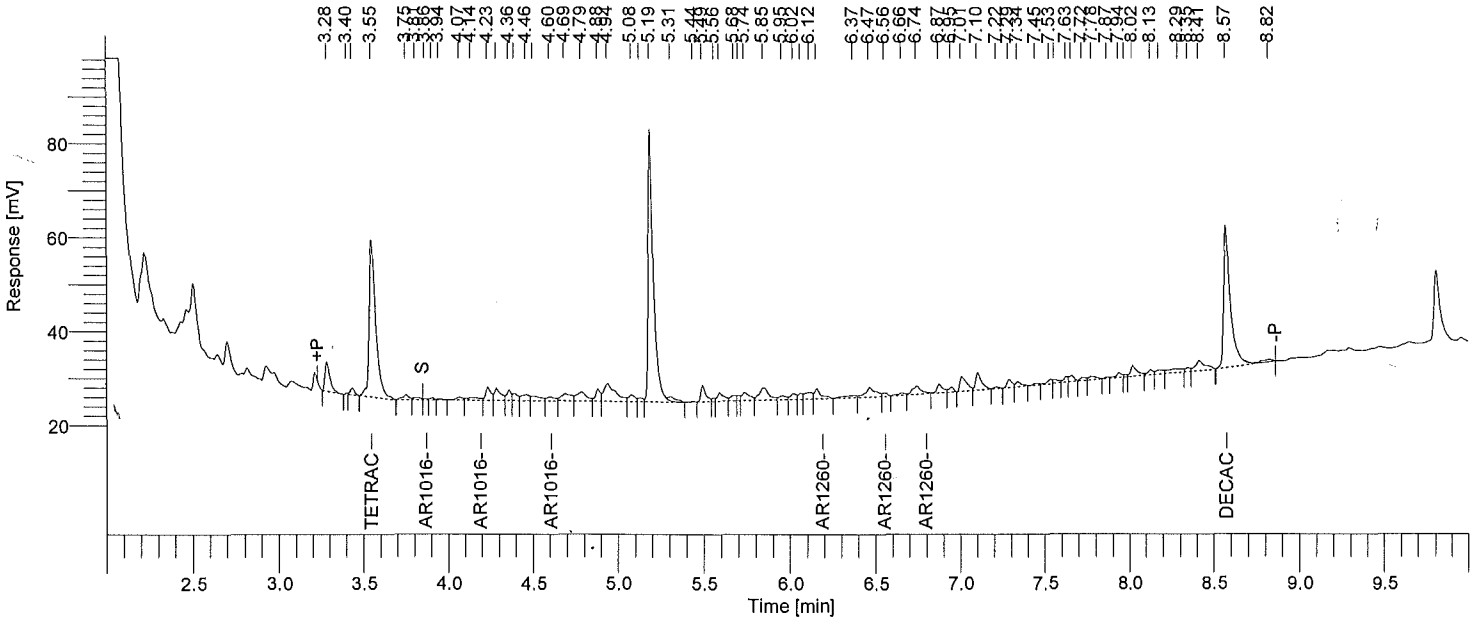
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612_SOM_AROS_F9M21_A.seq



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 %
3.55	Tetrachloro-m-xylene	89838	0.04610671	1	10	0.03025	0.992	1.6529	15.24189	19.83	76.8
3.86	AR1016-1	464	0.01198083	1	10	0.03025	0.992	33.0579	3.96061	0.00	------
4.23	AR1016-2	6040	0.07544092	1	10	0.03025	0.992	33.0579	24.93915	0.00	------
4.60	AR1016-3	3112	0.02069699	1	10	0.03025	0.992	33.0579	6.84198	0.00	------
6.16	AR1260-1	5869	0.06719681	1	10	0.03025	0.992	33.0579	22.21382	0.00	------
6.56	AR1260-2	1520	0.02987637	1	10	0.03025	0.992	33.0579	9.87649	0.00	------
6.80	AR1260-3	0	0.00000000	1	10	0.03025	0.992	---------	0.00000	--------	------
8.57	Decachlorobiphenyl	81761	0.08556529	1	10	0.03025	0.992	3.3058	28.28605	39.67	71.3

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:17:16
Operator	: borges	Sample Name	: 1515542005
Sample Number	: 25	Study	: F9M25
AutoSampler	: HP7673A	Rack/Vial	: 0/25
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	: 06/13/2015 00:17:09	Dilution Factor	: 1.00
		Cycle	: 9

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_025.raw
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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_025.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_025.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
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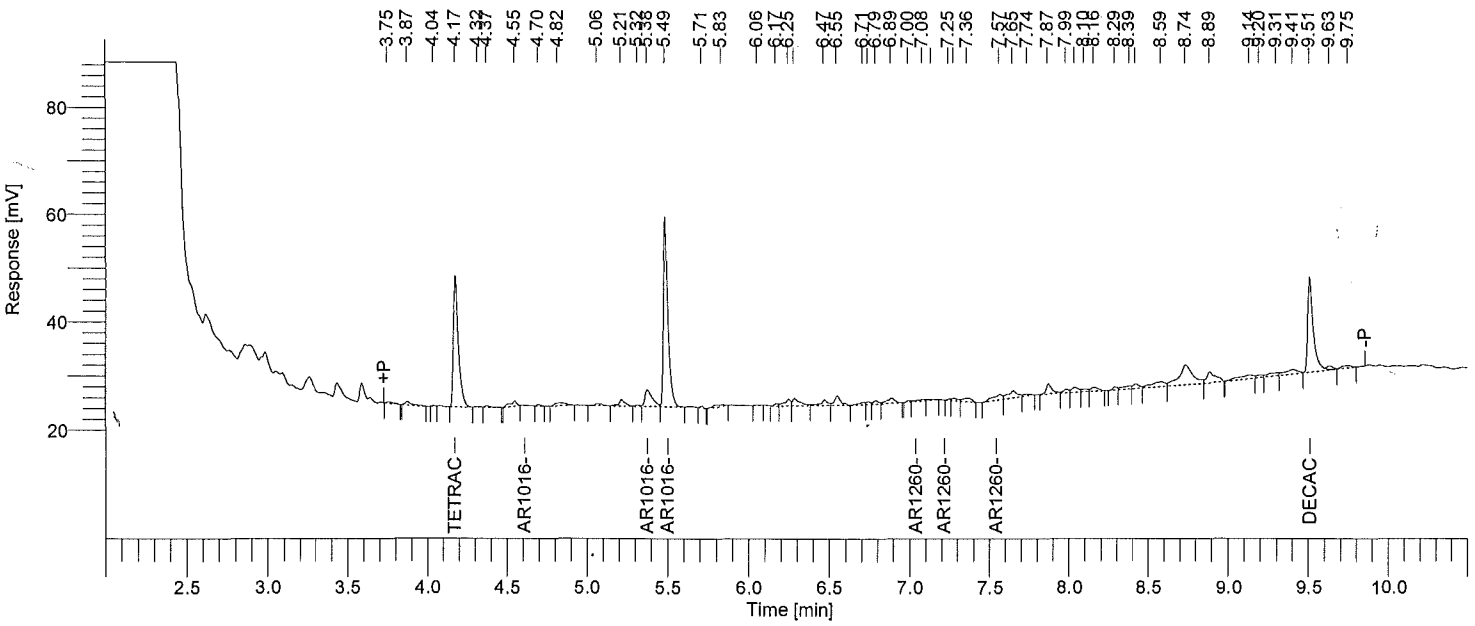

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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	53243	0.04994687	1	10	0.03025	0.992	1.6529	16.51136	19.83	83.2
4.61	AR1016-1	0	0.00000000	1	10	0.03025	0.992	---------	0.00000	--------	------
5.38	AR1016-2	9957	0.13825355	1	10	0.03025	0.992	33.0579	45.70365	0.00	------
5.49	AR1016-3	66150	2.12096674	1	10	0.03025	0.992	33.0579	701.14603	0.00	------
7.00	AR1260-1	460	0.01100684	1	10	0.03025	0.992	33.0579	3.63862	0.00	------
7.25	AR1260-2	469	0.01079652	1	10	0.03025	0.992	33.0579	3.56910	0.00	------
7.57	AR1260-3	4431	0.09153981	1	10	0.03025	0.992	33.0579	30.26109	0.00	------
9.51	Decachlorobiphenyl	41392	0.11517082	1	10	0.03025	0.992	3.3058	38.07300	39.67	96.0

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M26

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542006

Sample wt/vol: 30.4 (g/mL) g Lab File ID: 20150612A026,20150612B026

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/13/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1 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	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	: 06/16/2015 19:16:28
Operator	: borges	Sample Name	: 1515542006
Sample Number	: 26	Study	: F9M26
AutoSampler	: HP7673A	Rack/Vial	: 0/26
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	: 06/13/2015 00:17:09	Dilution Factor	: 1.00
		Cycle	: 9

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_026.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_026.rst
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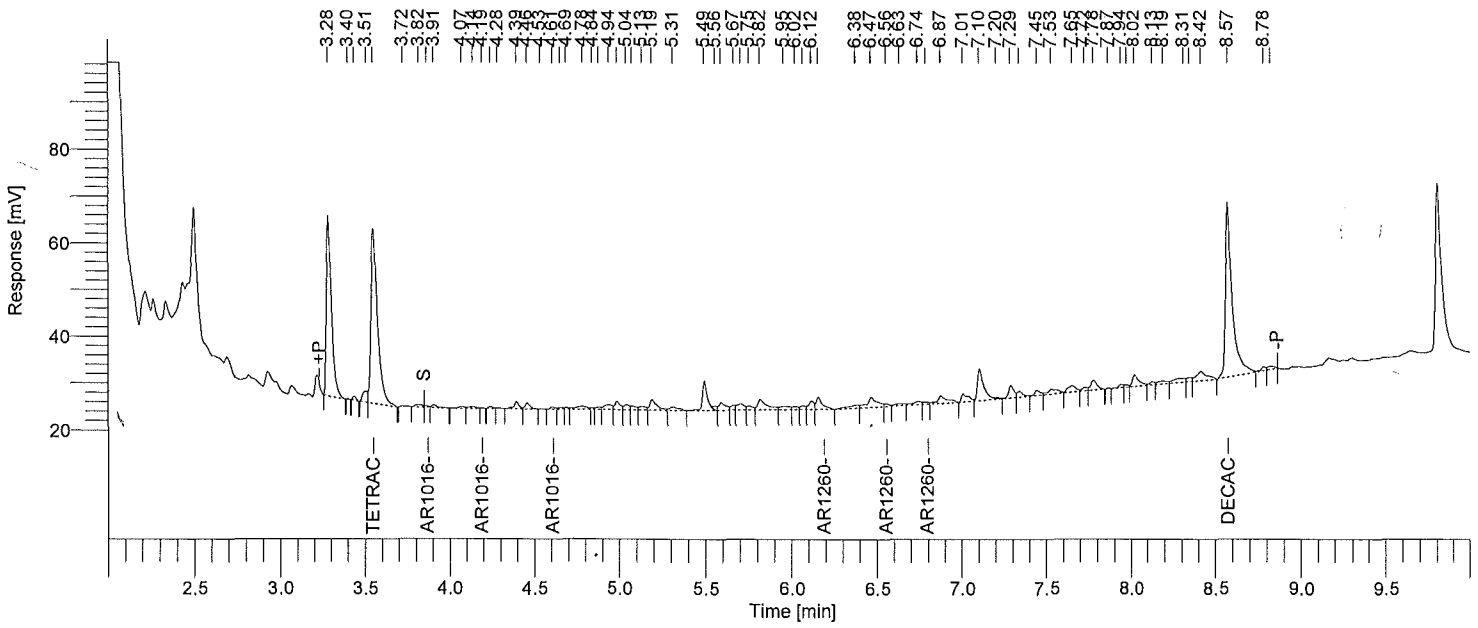
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_026.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_026.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612_SOM_AROS_F9M21_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 %
3.55	Tetrachloro-m-xylene	100762	0.05171321	1	10	0.03036	0.988	1.6469	17.03334	19.76	86.2
3.86	AR1016-1	520	0.01342662	1	10	0.03036	0.988	32.9381	4.42247	0.00	------
4.19	AR1016-2	111	1.3850e-03	1	10	0.03036	0.988	32.9381	0.45618	0.00	------
4.61	AR1016-3	958	6.3715e-03	1	10	0.03036	0.988	32.9381	2.09866	0.00	------
6.16	AR1260-1	6733	0.07708787	1	10	0.03036	0.988	32.9381	25.39126	0.00	------
6.56	AR1260-2	1224	0.02404815	1	10	0.03036	0.988	32.9381	7.92100	0.00	------
6.79	AR1260-3	1072	0.01905576	1	10	0.03036	0.988	32.9381	6.27660	0.00	------
8.57	Decachlorobiphenyl	102483	0.10725166	1	10	0.03036	0.988	3.2938	35.32663	39.53	89.4

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:17:19
Operator	: borges	Sample Name	: 1515542006
Sample Number	: 26	Study	: F9M26
AutoSampler	: HP7673A	Rack/Vial	: 0/26
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	: 06/13/2015 00:33:21	Dilution Factor	: 1.00
		Cycle	: 10

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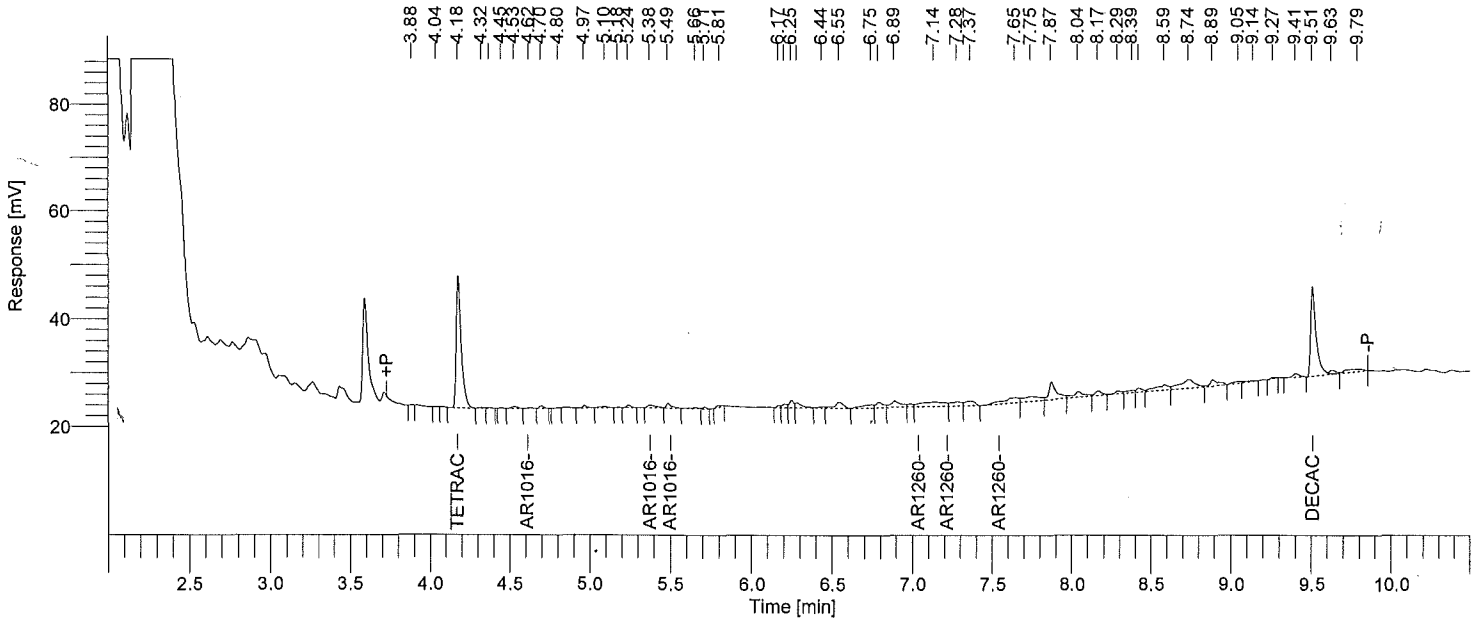
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_026.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_026.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612_SOM_AROS_F9M21_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 %
4.18	Tetrachloro-m-xylene	54052	0.05070566	1	10	0.03036	0.988	1.6469	16.70147	19.76	84.5
4.62	AR1016-1	372	0.01628785	1	10	0.03036	0.988	32.9381	5.36490	0.00	------
5.38	AR1016-2	1732	0.02404460	1	10	0.03036	0.988	32.9381	7.91983	0.00	------
5.49	AR1016-3	1817	0.05826616	1	10	0.03036	0.988	32.9381	19.19175	0.00	------
7.04	AR1260-1	0	0.00000000	1	10	0.03036	0.988	---------	0.00000	--------	------
7.21	AR1260-2	0	0.00000000	1	10	0.03036	0.988	---------	0.00000	--------	------
7.54	AR1260-3	0	0.00000000	1	10	0.03036	0.988	---------	0.00000	--------	------
9.51	Decachlorobiphenyl	38559	0.10728736	1	10	0.03036	0.988	3.2938	35.33839	39.53	89.4

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M27

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542007

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 20150612A027,20150612B027

% Moisture: 19. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/13/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 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	: 06/16/2015 19:16:30
Operator	: borges	Sample Name	: 1515542007
Sample Number	: 27	Study	: F9M27
AutoSampler	: HP7673A	Rack/Vial	: 0/27
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	: 06/13/2015 00:33:21	Cycle	: 10

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_027.raw
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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_027.rst
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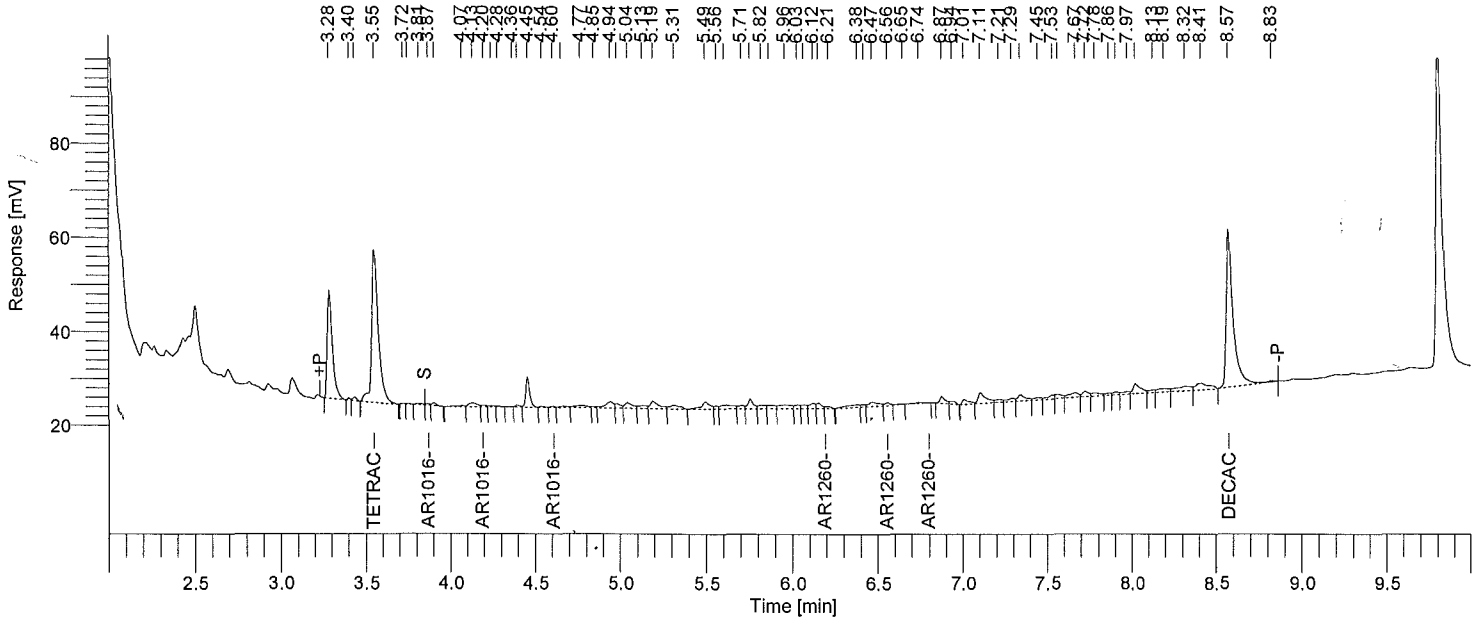
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612_SOM_AROS_F9M21_A.seq



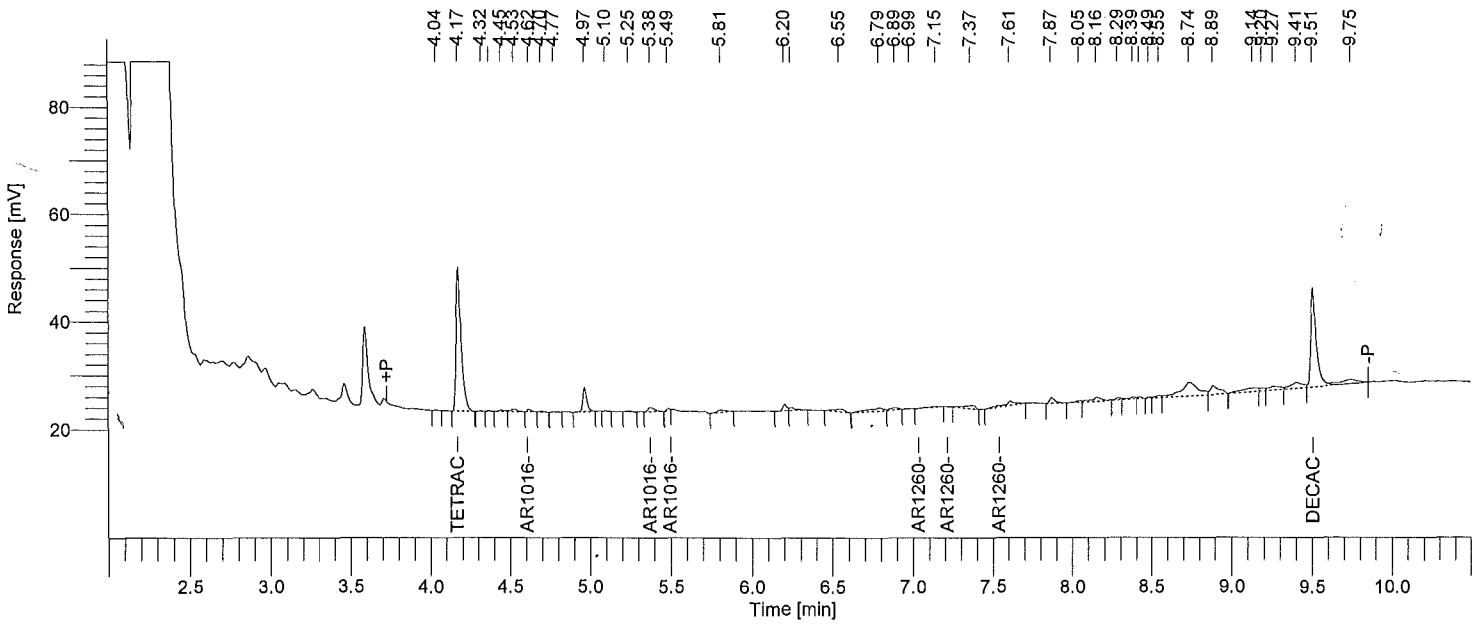
Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
3.55	Tetrachloro-m-xylene	90020	0.04620042	1	10	0.03010	0.997	1.6611	15.34898	19.93	77.0
3.87	AR1016-1	664	0.01715260	1	10	0.03010	0.997	33.2226	5.69854	0.00	------
4.20	AR1016-2	738	9.2219e-03	1	10	0.03010	0.997	33.2226	3.06374	0.00	------
4.60	AR1016-3	462	3.0702e-03	1	10	0.03010	0.997	33.2226	1.01999	0.00	------
6.21	AR1260-1	1161	0.01329317	1	10	0.03010	0.997	33.2226	4.41633	0.00	------
6.56	AR1260-2	1332	0.02617307	1	10	0.03010	0.997	33.2226	8.69537	0.00	------
6.80	AR1260-3	0	0.00000000	1	10	0.03010	0.997	---------	0.00000	--------	------
8.57	Decachlorobiphenyl	91543	0.09580224	1	10	0.03010	0.997	3.3223	31.82799	39.87	79.8

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:17:21
Operator	: borges	Sample Name	: 1515542007
Sample Number	: 27	Study	: F9M27
AutoSampler	: HP7673A	Rack/Vial	: 0/27
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	: 06/13/2015 00:49:27	Dilution Factor	: 1.00
		Cycle	: 11

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_027.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_027.rst
Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150612\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_027.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_027.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_027.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612_SOM_AROS_F9M21_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	58648	0.05501736	1	10	0.03010	0.997	1.6611	18.27819	19.93	91.7
4.62	AR1016-1	829	0.03633733	1	10	0.03010	0.997	33.2226	12.07220	0.00	------
5.38	AR1016-2	2305	0.03201108	1	10	0.03010	0.997	33.2226	10.63491	0.00	------
5.49	AR1016-3	462	0.01481986	1	10	0.03010	0.997	33.2226	4.92354	0.00	------
6.99	AR1260-1	424	0.01015005	1	10	0.03010	0.997	33.2226	3.37211	0.00	------
7.21	AR1260-2	0	0.00000000	1	10	0.03010	0.997	---------	0.00000	--------	------
7.54	AR1260-3	0	0.00000000	1	10	0.03010	0.997	---------	0.00000	--------	------
9.51	Decachlorobiphenyl	43270	0.12039731	1	10	0.03010	0.997	3.3223	39.99911	39.87	100.3

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M28

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542010

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 20150612A030,20150612B030

% Moisture: 17. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/13/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1 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	40.	U
11104-28-2	Aroclor-1221	40.	U
11141-16-5	Aroclor-1232	40.	U
53469-21-9	Aroclor-1242	40.	U
12672-29-6	Aroclor-1248	40.	U
11097-69-1	Aroclor-1254	40.	U
11096-82-5	Aroclor-1260	40.	U
37324-23-5	Aroclor-1262	40.	U
11100-14-4	Aroclor-1268	40.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:16:35
Operator	: borges	Sample Name	: 1515542010
Sample Number	: 30	Study	: F9M28
AutoSampler	: HP7673A	Rack/Vial	: 0/30
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	: 06/13/2015 01:21:37	Cycle	: 13

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_030.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_030.rst
Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150612\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_030.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_030.rst
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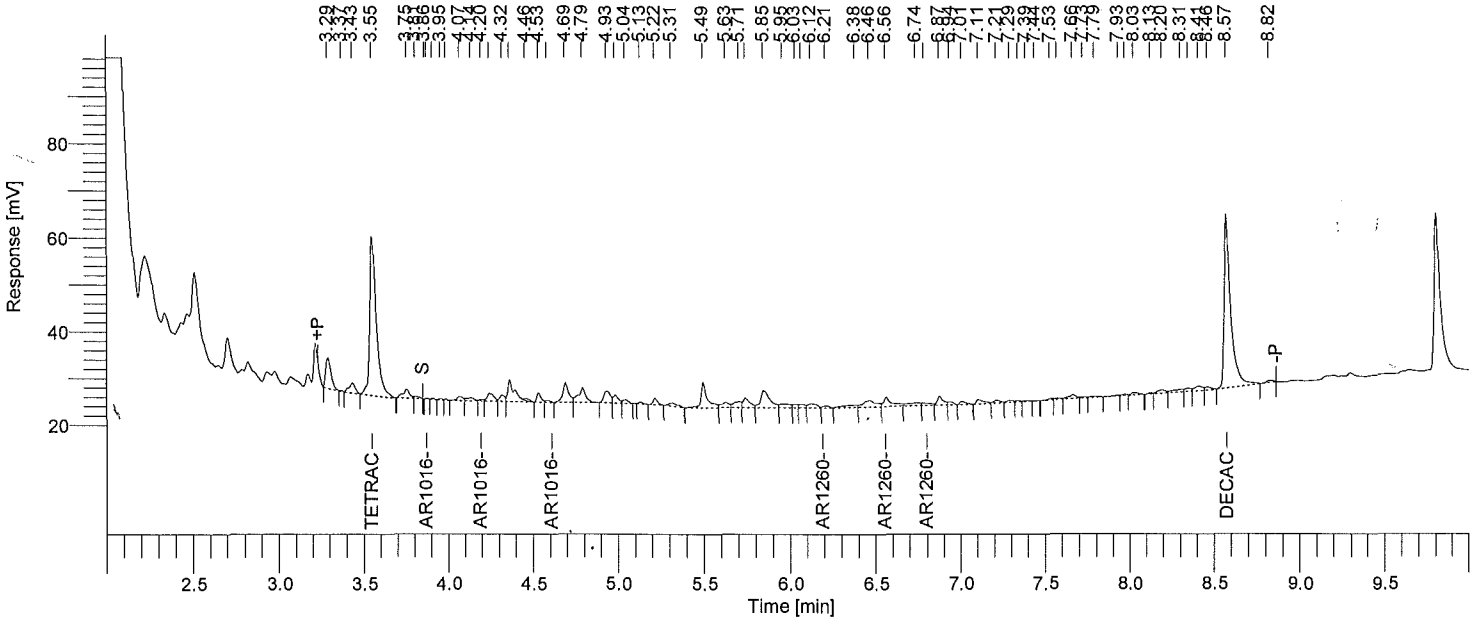
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612_SOM_AROS_F9M21_A.seq



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 %
3.55	Tetrachloro-m-xylene	93015	0.04773763	1	10	0.03018	0.994	1.6567	15.81764	19.88	79.6
3.87	AR1016-1	206	5.3117e-03	1	10	0.03018	0.994	33.1345	1.75999	0.00	------
4.20	AR1016-2	626	7.8180e-03	1	10	0.03018	0.994	33.1345	2.59046	0.00	------
4.58	AR1016-3	988	6.5691e-03	1	10	0.03018	0.994	33.1345	2.17664	0.00	------
6.21	AR1260-1	1236	0.01414750	1	10	0.03018	0.994	33.1345	4.68771	0.00	------
6.56	AR1260-2	6581	0.12933645	1	10	0.03018	0.994	33.1345	42.85502	0.00	------
6.78	AR1260-3	1925	0.03423038	1	10	0.03018	0.994	33.1345	11.34207	0.00	------
8.57	Decachlorobiphenyl	98998	0.10360402	1	10	0.03018	0.994	3.3135	34.32870	39.76	86.3

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:17:26
Operator	: borges	Sample Name	: 1515542010
Sample Number	: 30	Study	: F9M28
AutoSampler	: HP7673A	Rack/Vial	: 0/30
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	: 06/13/2015 01:37:55	Cycle	: 14

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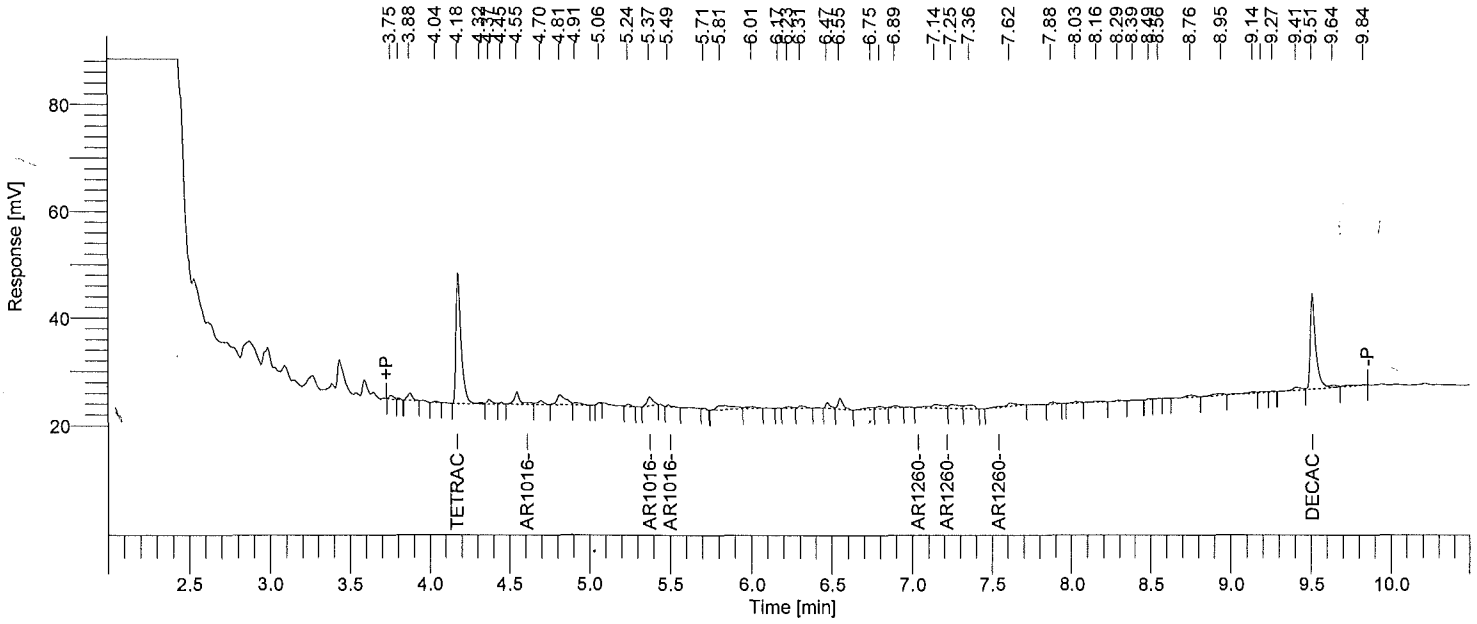
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_030.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_030.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612_SOM_AROS_F9M21_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 %
4.18	Tetrachloro-m-xylene	54635	0.05125321	1	10	0.03018	0.994	1.6567	16.98251	19.88	85.4
4.61	AR1016-1	0	0.00000000	1	10	0.03018	0.994	---------	0.00000	--------	------
5.37	AR1016-2	4218	0.05857284	1	10	0.03018	0.994	33.1345	19.40783	0.00	------
5.49	AR1016-3	768	0.02463571	1	10	0.03018	0.994	33.1345	8.16293	0.00	------
7.04	AR1260-1	0	0.00000000	1	10	0.03018	0.994	---------	0.00000	--------	------
7.25	AR1260-2	3324	0.07655560	1	10	0.03018	0.994	33.1345	25.36634	0.00	------
7.54	AR1260-3	0	0.00000000	1	10	0.03018	0.994	---------	0.00000	--------	------
9.51	Decachlorobiphenyl	40877	0.11373807	1	10	0.03018	0.994	3.3135	37.68657	39.76	94.8

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M29

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542011

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 20150612A031,20150612B031

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/13/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.2 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	38.	U
11104-28-2	Aroclor-1221	38.	U
11141-16-5	Aroclor-1232	38.	U
53469-21-9	Aroclor-1242	38.	U
12672-29-6	Aroclor-1248	38.	U
11097-69-1	Aroclor-1254	38.	U
11096-82-5	Aroclor-1260	38.	U
37324-23-5	Aroclor-1262	38.	U
11100-14-4	Aroclor-1268	38.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:16:37
Operator	: borges	Sample Name	: 1515542011
Sample Number	: 31	Study	: F9M29
AutoSampler	: HP7673A	Rack/Vial	: 0/31
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	: 06/13/2015 01:37:55	Cycle	: 14

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_031.raw
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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_031.rst
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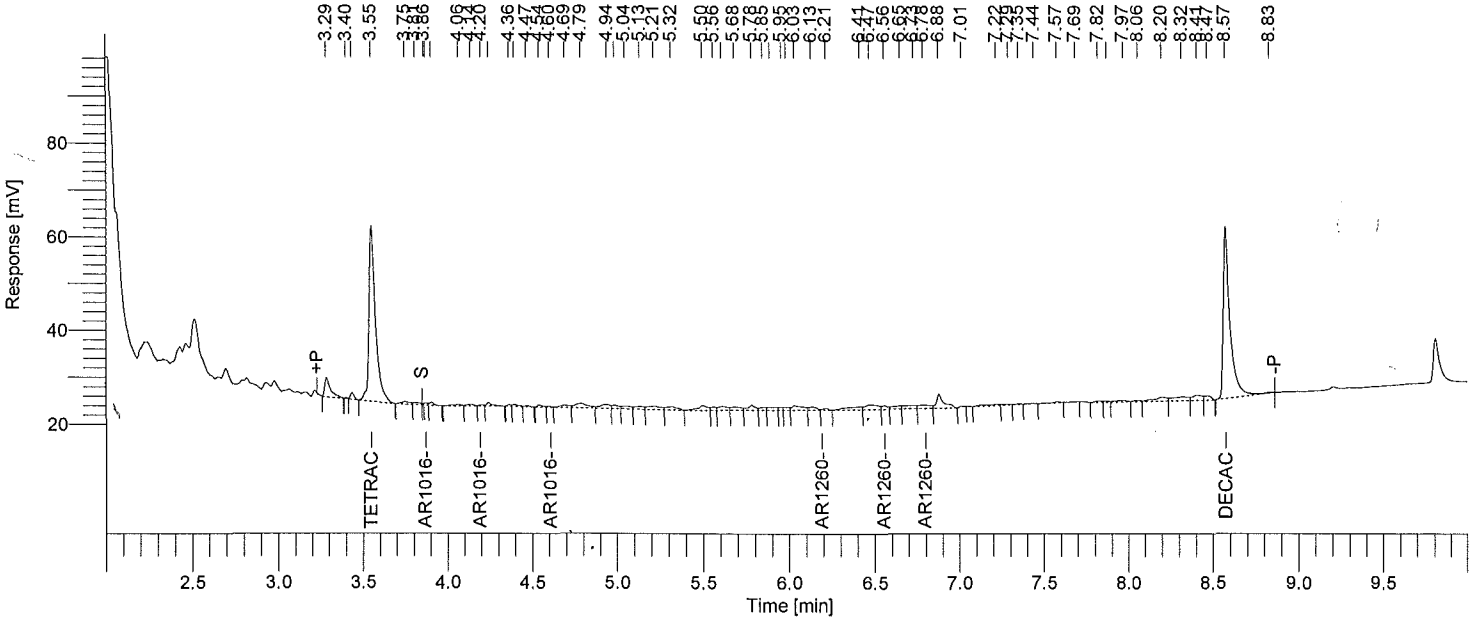
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612_SOM_AROS_F9M21_A.seq



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 %
3.55	Tetrachloro-m-xylene	99711	0.05117404	1	10	0.03015	0.995	1.6584	16.97315	19.90	85.3
3.87	AR1016-1	568	0.01466313	1	10	0.03015	0.995	33.1675	4.86339	0.00	------
4.20	AR1016-2	452	5.6513e-03	1	10	0.03015	0.995	33.1675	1.87441	0.00	------
4.60	AR1016-3	571	3.7945e-03	1	10	0.03015	0.995	33.1675	1.25855	0.00	------
6.21	AR1260-1	1024	0.01171847	1	10	0.03015	0.995	33.1675	3.88672	0.00	------
6.56	AR1260-2	2078	0.04084762	1	10	0.03015	0.995	33.1675	13.54813	0.00	------
6.78	AR1260-3	3717	0.06608986	1	10	0.03015	0.995	33.1675	21.92035	0.00	------
8.57	Decachlorobiphenyl	97638	0.10218037	1	10	0.03015	0.995	3.3167	33.89067	39.80	85.2

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:17:28
Operator	: borges	Sample Name	: 1515542011
Sample Number	: 31	Study	: F9M29
AutoSampler	: HP7673A	Rack/Vial	: 0/31
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	: 06/13/2015 01:54:01	Cycle	: 15

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_031.raw
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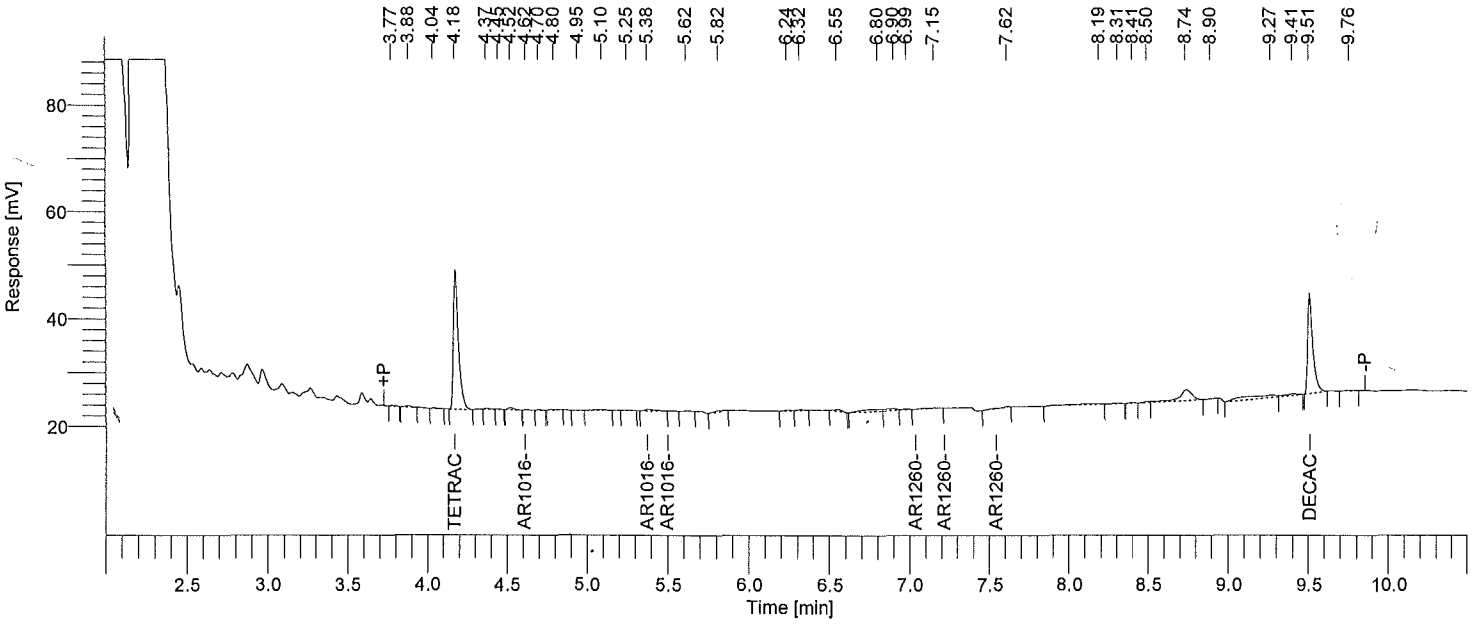
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_031.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_031.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612_SOM_AROS_F9M21_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 %
4.18	Tetrachloro-m-xylene	57120	0.05358362	1	10	0.03015	0.995	1.6584	17.77235	19.90	89.3
4.62	AR1016-1	199	8.7355e-03	1	10	0.03015	0.995	33.1675	2.89734	0.00	------
5.38	AR1016-2	1224	0.01699965	1	10	0.03015	0.995	33.1675	5.63836	0.00	------
5.50	AR1016-3	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
7.04	AR1260-1	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
7.21	AR1260-2	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
7.54	AR1260-3	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
9.51	Decachlorobiphenyl	40919	0.11385496	1	10	0.03015	0.995	3.3167	37.76284	39.80	94.9

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M30

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542012

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 20150612A032,20150612B032

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/13/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.2 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	38.	U
11104-28-2	Aroclor-1221	38.	U
11141-16-5	Aroclor-1232	38.	U
53469-21-9	Aroclor-1242	38.	U
12672-29-6	Aroclor-1248	38.	U
11097-69-1	Aroclor-1254	38.	U
11096-82-5	Aroclor-1260	38.	U
37324-23-5	Aroclor-1262	38.	U
11100-14-4	Aroclor-1268	38.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:16:39
Operator	: borges	Sample Name	: 1515542012
Sample Number	: 32	Study	: F9M30
AutoSampler	: HP7673A	Rack/Vial	: 0/32
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	: 06/13/2015 01:54:01	Cycle	: 15

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_032.raw
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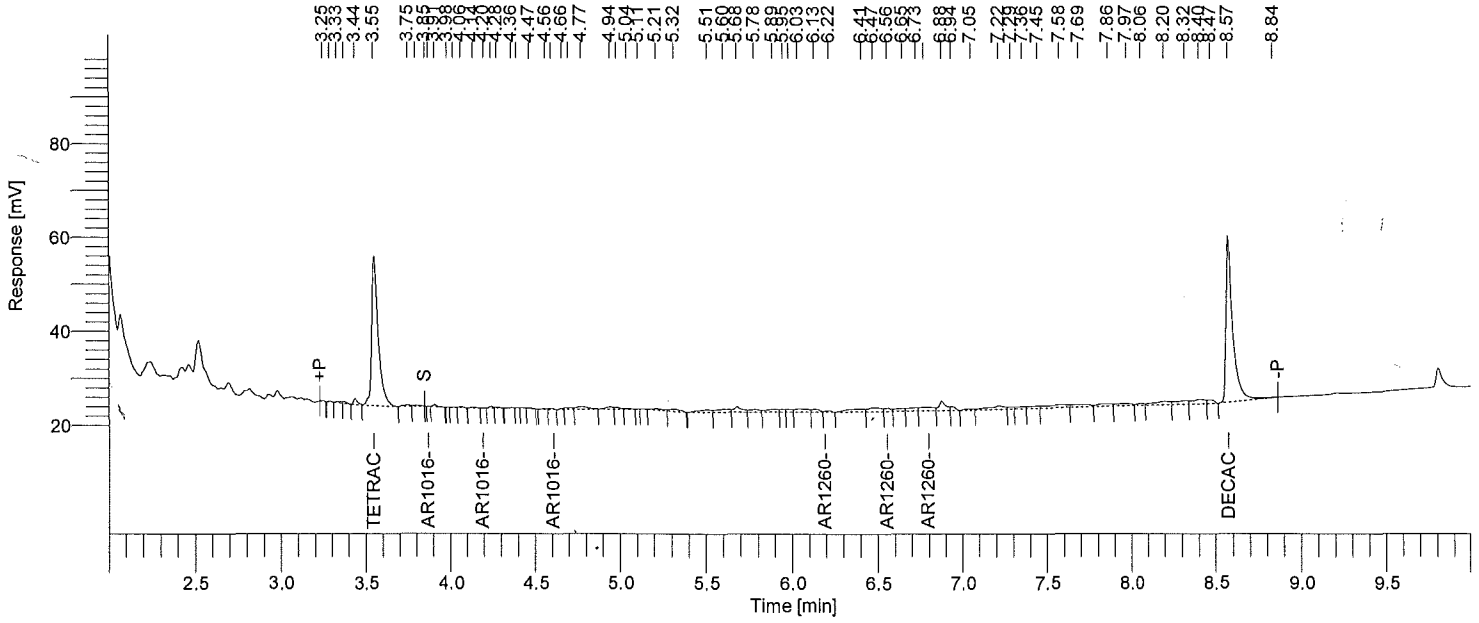

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
3.55	Tetrachloro-m-xylene	85435	0.04384703	1	10	0.03033	0.989	1.6485	14.45665	19.78	73.1
3.87	AR1016-1	23	5.9948e-04	1	10	0.03033	0.989	32.9707	0.19765	0.00	------
4.20	AR1016-2	61	7.6728e-04	1	10	0.03033	0.989	32.9707	0.25298	0.00	------
4.60	AR1016-3	514	3.4168e-03	1	10	0.03033	0.989	32.9707	1.12653	0.00	------
6.22	AR1260-1	811	9.2903e-03	1	10	0.03033	0.989	32.9707	3.06307	0.00	------
6.56	AR1260-2	2032	0.03993023	1	10	0.03033	0.989	32.9707	13.16526	0.00	------
6.77	AR1260-3	4394	0.07813426	1	10	0.03033	0.989	32.9707	25.76138	0.00	------
8.57	Decachlorobiphenyl	94561	0.09896059	1	10	0.03033	0.989	3.2971	32.62795	39.56	82.5

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:17:30
Operator	: borges	Sample Name	: 1515542012
Sample Number	: 32	Study	: F9M30
AutoSampler	: HP7673A	Rack/Vial	: 0/32
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	: 06/13/2015 02:10:11	Cycle	: 16

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_032.raw
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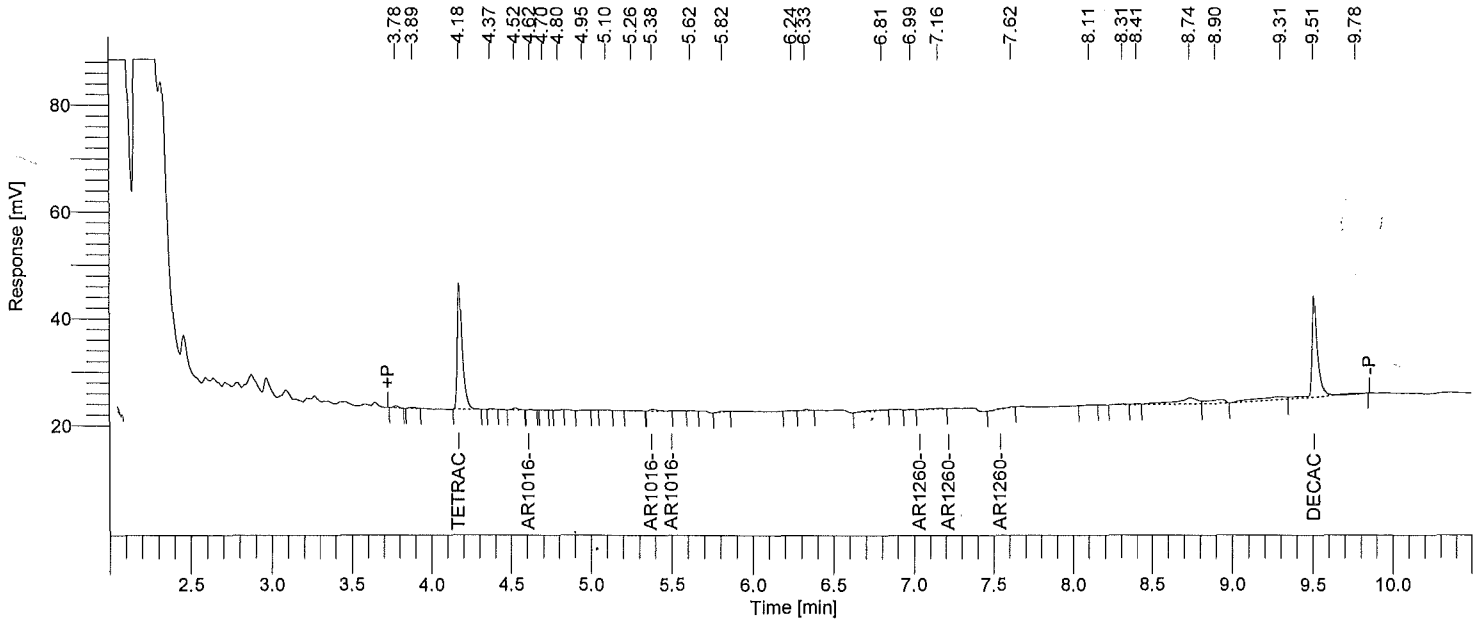
Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150612\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_032.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_032.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_032.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612_SOM_AROS_F9M21_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 %
4.18	Tetrachloro-m-xylene	51446	0.04826103	1	10	0.03033	0.989	1.6485	15.91198	19.78	80.4
4.62	AR1016-1	226	9.9074e-03	1	10	0.03033	0.989	32.9707	3.26652	0.00	------
5.38	AR1016-2	1177	0.01634444	1	10	0.03033	0.989	32.9707	5.38887	0.00	------
5.50	AR1016-3	0	0.00000000	1	10	0.03033	0.989	---------	0.00000	--------	------
6.99	AR1260-1	260	6.2284e-03	1	10	0.03033	0.989	32.9707	2.05355	0.00	------
7.21	AR1260-2	0	0.00000000	1	10	0.03033	0.989	---------	0.00000	--------	------
7.54	AR1260-3	0	0.00000000	1	10	0.03033	0.989	---------	0.00000	--------	------
9.51	Decachlorobiphenyl	46082	0.12822015	1	10	0.03033	0.989	3.2971	42.27503	39.56	106.9

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M31

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542013

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 20150612A033,20150612B033

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/13/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 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	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	: 06/16/2015 19:16:40
Operator	: borges	Sample Name	: 1515542013
Sample Number	: 33	Study	: F9M31
AutoSampler	: HP7673A	Rack/Vial	: 0/33
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	: 06/13/2015 02:10:11	Cycle	: 16

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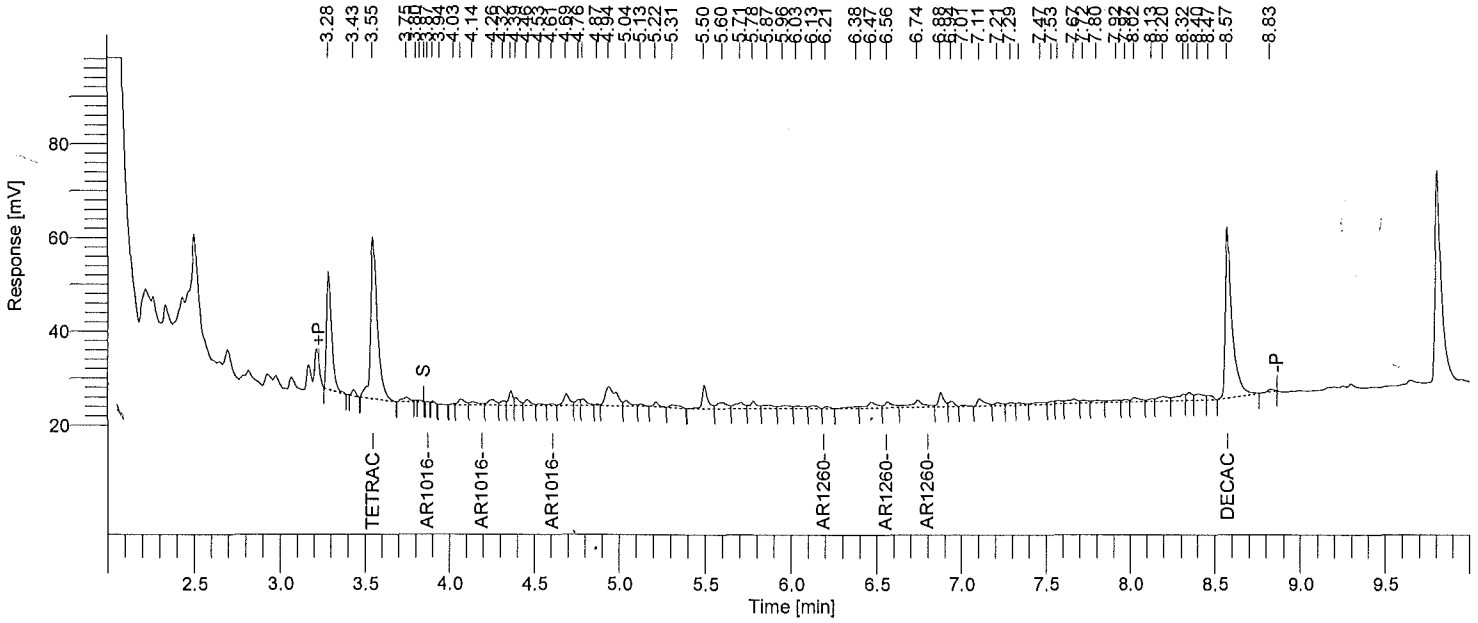
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_033.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_033.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612_SOM_AROS_F9M21_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 %
3.55	Tetrachloro-m-xylene	96680	0.04961823	1	10	0.03033	0.989	1.6485	16.35946	19.78	82.7
3.87	AR1016-1	69	1.7890e-03	1	10	0.03033	0.989	32.9707	0.58984	0.00	------
4.19	AR1016-2	0	0.00000000	1	10	0.03033	0.989	---------	0.00000	--------	------
4.61	AR1016-3	1039	6.9118e-03	1	10	0.03033	0.989	32.9707	2.27886	0.00	------
6.21	AR1260-1	1063	0.01217479	1	10	0.03033	0.989	32.9707	4.01411	0.00	------
6.56	AR1260-2	4291	0.08432872	1	10	0.03033	0.989	32.9707	27.80373	0.00	------
6.80	AR1260-3	0	0.00000000	1	10	0.03033	0.989	---------	0.00000	--------	------
8.57	Decachlorobiphenyl	98658	0.10324831	1	10	0.03033	0.989	3.2971	34.04165	39.56	86.0

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:17:32
Operator	: borges	Sample Name	: 1515542013
Sample Number	: 33	Study	: F9M31
AutoSampler	: HP7673A	Rack/Vial	: 0/33
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	: 06/13/2015 02:26:15	Dilution Factor	: 1.00
		Cycle	: 17

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_033.raw
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Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150612\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_033.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_033.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_033.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
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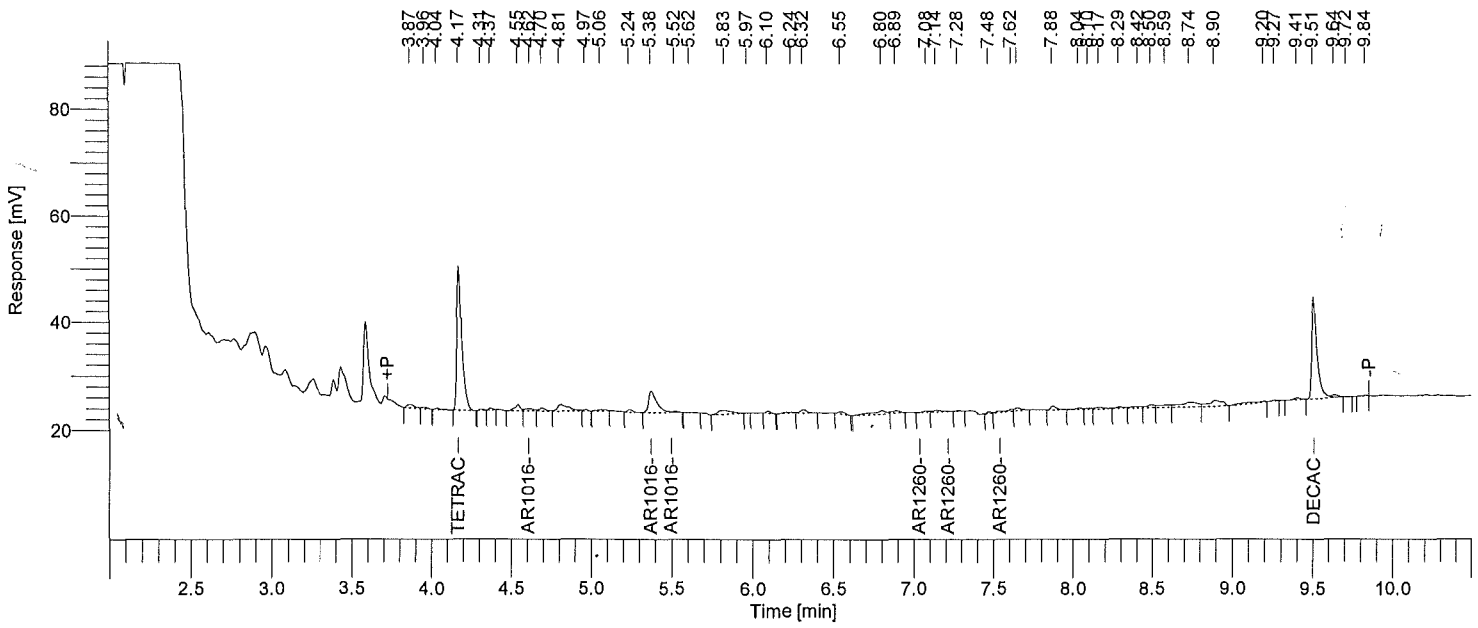


Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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	58708	0.05507350	1	10	0.03033	0.989	1.6485	18.15809	19.78	91.8
4.62	AR1016-1	1597	0.06996012	1	10	0.03033	0.989	32.9707	23.06631	0.00	------
5.38	AR1016-2	14088	0.19562235	1	10	0.03033	0.989	32.9707	64.49797	0.00	------
5.52	AR1016-3	400	0.01283052	1	10	0.03033	0.989	32.9707	4.23031	0.00	------
7.08	AR1260-1	686	0.01642512	1	10	0.03033	0.989	32.9707	5.41547	0.00	------
7.21	AR1260-2	0	0.00000000	1	10	0.03033	0.989	---------	0.00000	--------	------
7.54	AR1260-3	0	0.00000000	1	10	0.03033	0.989	---------	0.00000	--------	------
9.51	Decachlorobiphenyl	43564	0.12121452	1	10	0.03033	0.989	3.2971	39.96522	39.56	101.0

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M32

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542014

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 20150612A034,20150612B034

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/13/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

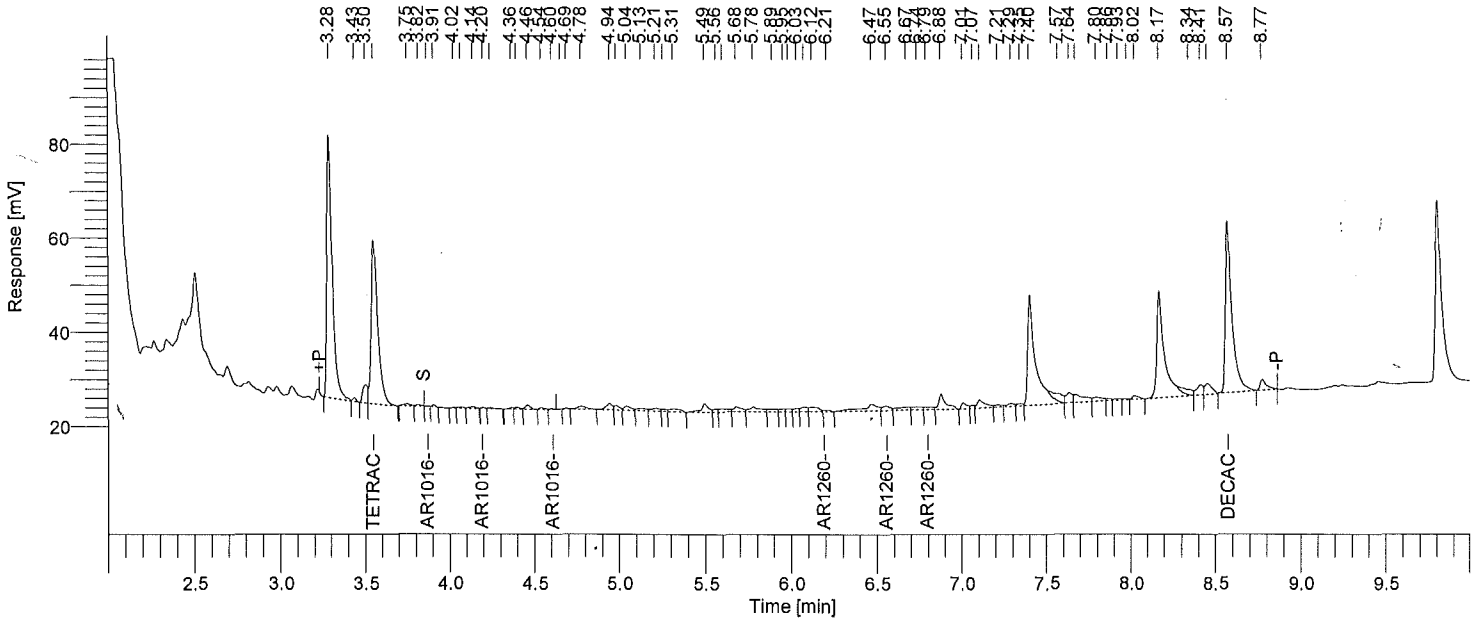
GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	38.	U
11104-28-2	Aroclor-1221	38.	U
11141-16-5	Aroclor-1232	38.	U
53469-21-9	Aroclor-1242	38.	U
12672-29-6	Aroclor-1248	38.	U
11097-69-1	Aroclor-1254	38.	U
11096-82-5	Aroclor-1260	38.	U
37324-23-5	Aroclor-1262	38.	U
11100-14-4	Aroclor-1268	38.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:16:43
Operator	: borges	Sample Name	: 1515542014
Sample Number	: 34	Study	: F9M32
AutoSampler	: HP7673A	Rack/Vial	: 0/34
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	: 06/13/2015 02:26:15	Cycle	: 17

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_034.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_034.rst
Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150612\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_034.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_034.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_034.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612_SOM_AROS_F9M21_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 %
3.55	Tetrachloro-m-xylene	95137	0.04882637	1	10	0.03006	0.998	1.6633	16.24297	19.96	81.4
3.86	AR1016-1	128	3.3118e-03	1	10	0.03006	0.998	33.2668	1.10172	0.00	------
4.20	AR1016-2	284	3.5526e-03	1	10	0.03006	0.998	33.2668	1.18184	0.00	------
4.60	AR1016-3	353	2.3499e-03	1	10	0.03006	0.998	33.2668	0.78174	0.00	------
6.21	AR1260-1	866	9.9201e-03	1	10	0.03006	0.998	33.2668	3.30009	0.00	------
6.55	AR1260-2	3171	0.06232753	1	10	0.03006	0.998	33.2668	20.73437	0.00	------
6.79	AR1260-3	2080	0.03698591	1	10	0.03006	0.998	33.2668	12.30403	0.00	------
8.57	Decachlorobiphenyl	95034	0.09945508	1	10	0.03006	0.998	3.3267	33.08552	39.92	82.9

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:17:33
Operator	: borges	Sample Name	: 1515542014
Sample Number	: 34	Study	: F9M32
AutoSampler	: HP7673A	Rack/Vial	: 0/34
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	: 06/13/2015 02:42:21	Cycle	: 18

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_034.raw
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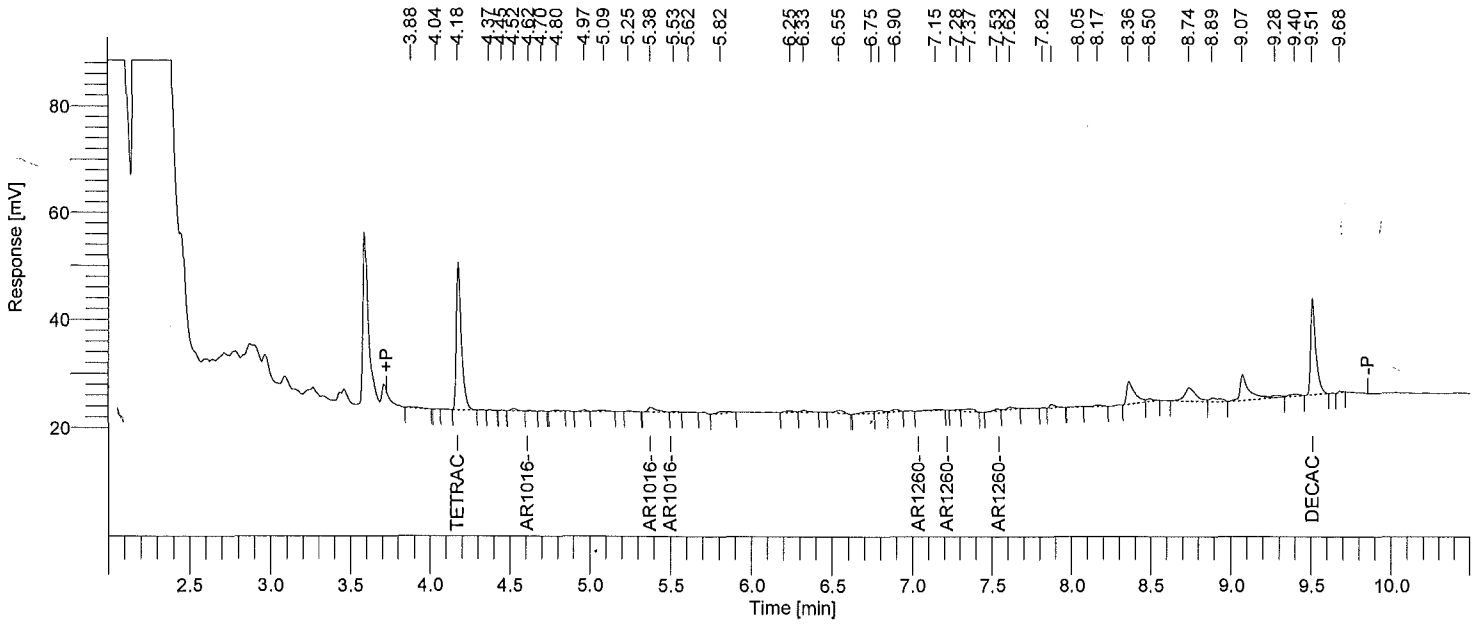
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_034.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_034.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612_SOM_AROS_F9M21_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 %
4.18	Tetrachloro-m-xylene	60220	0.05649231	1	10	0.03006	0.998	1.6633	18.79319	19.96	94.2
4.62	AR1016-1	288	0.01263271	1	10	0.03006	0.998	33.2668	4.20250	0.00	------
5.38	AR1016-2	3323	0.04613478	1	10	0.03006	0.998	33.2668	15.34756	0.00	------
5.53	AR1016-3	537	0.01720858	1	10	0.03006	0.998	33.2668	5.72474	0.00	------
7.04	AR1260-1	0	0.00000000	1	10	0.03006	0.998	---------	0.00000	--------	------
7.21	AR1260-2	0	0.00000000	1	10	0.03006	0.998	---------	0.00000	--------	------
7.53	AR1260-3	1063	0.02195111	1	10	0.03006	0.998	33.2668	7.30243	0.00	------
9.51	Decachlorobiphenyl	39514	0.10994417	1	10	0.03006	0.998	3.3267	36.57491	39.92	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.

F9M33

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542015

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 20150612A035,20150612B035

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/13/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1 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	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	: 06/16/2015 19:16:46
Operator	: borges	Sample Name	: 1515542015
Sample Number	: 35	Study	: F9M33
AutoSampler	: HP7673A	Rack/Vial	: 0/35
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	: 06/13/2015 02:42:21	Cycle	: 18

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_035.raw
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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_035.rst
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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
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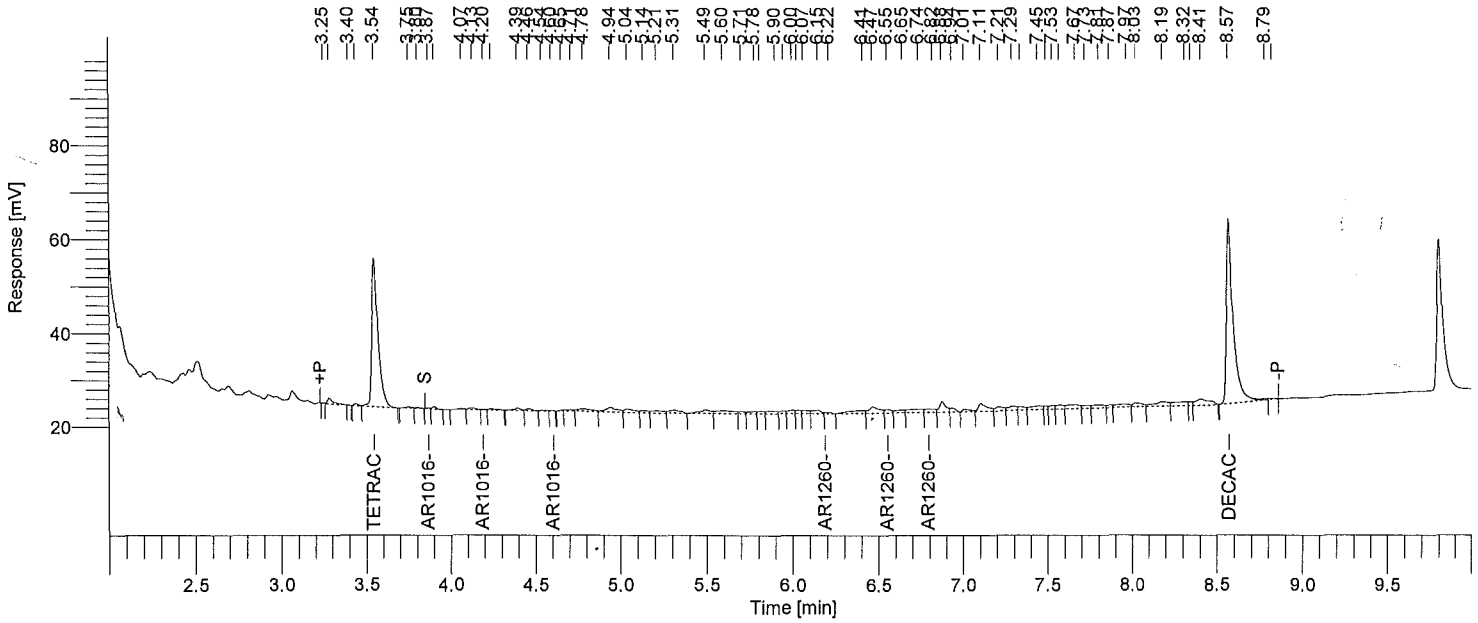

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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	80944	0.04154224	1	10	0.03015	0.995	1.6584	13.77852	19.90	69.2
3.87	AR1016-1	233	6.0122e-03	1	10	0.03015	0.995	33.1675	1.99409	0.00	------
4.20	AR1016-2	129	1.6146e-03	1	10	0.03015	0.995	33.1675	0.53554	0.00	------
4.60	AR1016-3	273	1.8184e-03	1	10	0.03015	0.995	33.1675	0.60313	0.00	------
6.22	AR1260-1	944	0.01081089	1	10	0.03015	0.995	33.1675	3.58570	0.00	------
6.55	AR1260-2	2033	0.03995656	1	10	0.03015	0.995	33.1675	13.25259	0.00	------
6.82	AR1260-3	2981	0.05300006	1	10	0.03015	0.995	33.1675	17.57879	0.00	------
8.57	Decachlorobiphenyl	105095	0.10998509	1	10	0.03015	0.995	3.3167	36.47930	39.80	91.7

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:17:35
Operator	: borges	Sample Name	: 1515542015
Sample Number	: 35	Study	: F9M33
AutoSampler	: HP7673A	Rack/Vial	: 0/35
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	: 06/13/2015 02:58:35	Cycle	: 19

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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_035.rst
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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
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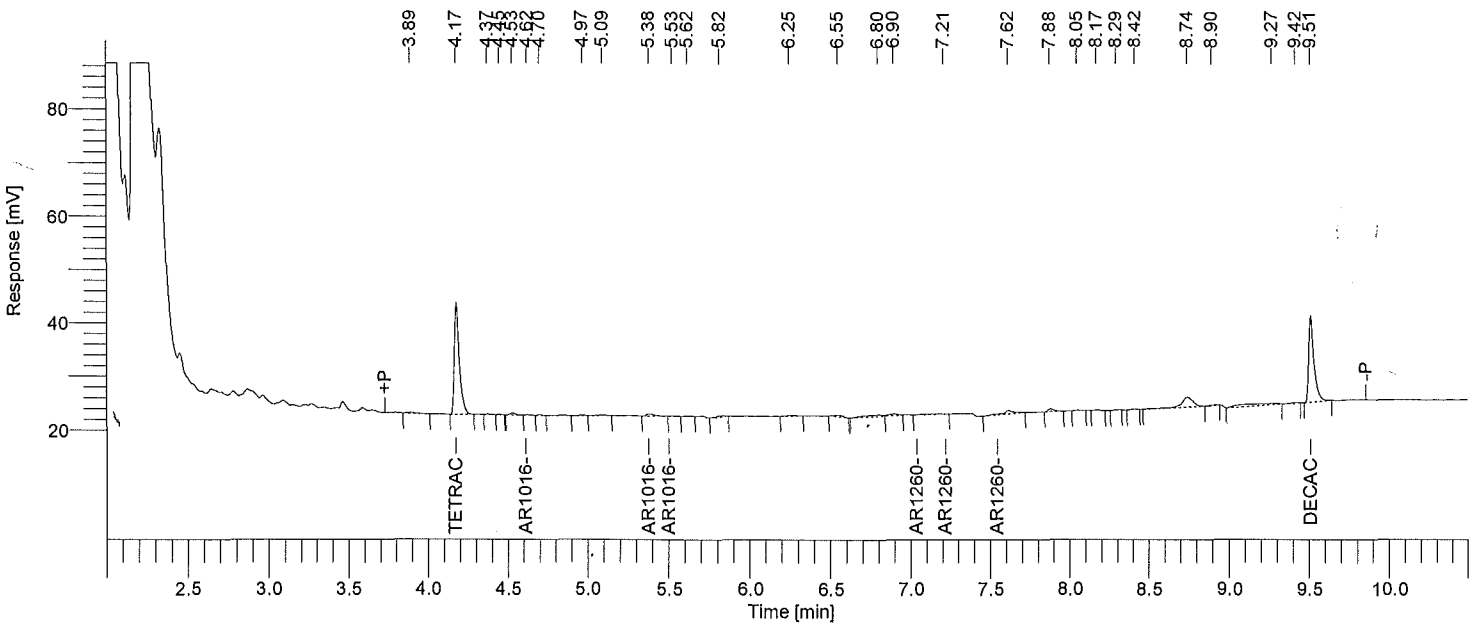

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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	45454	0.04264018	1	10	0.03015	0.995	1.6584	14.14268	19.90	71.1
4.62	AR1016-1	250	0.01096333	1	10	0.03015	0.995	33.1675	3.63626	0.00	------
5.38	AR1016-2	1461	0.02028844	1	10	0.03015	0.995	33.1675	6.72917	0.00	------
5.53	AR1016-3	226	7.2323e-03	1	10	0.03015	0.995	33.1675	2.39877	0.00	------
7.04	AR1260-1	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
7.21	AR1260-2	864	0.01989639	1	10	0.03015	0.995	33.1675	6.59913	0.00	------
7.54	AR1260-3	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
9.51	Decachlorobiphenyl	35810	0.09963877	1	10	0.03015	0.995	3.3167	33.04768	39.80	83.0

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M34

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542016

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 20150612A036,20150612B036

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/13/2015

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	40.	U
11104-28-2	Aroclor-1221	40.	U
11141-16-5	Aroclor-1232	40.	U
53469-21-9	Aroclor-1242	40.	U
12672-29-6	Aroclor-1248	40.	U
11097-69-1	Aroclor-1254	40.	U
11096-82-5	Aroclor-1260	40.	U
37324-23-5	Aroclor-1262	40.	U
11100-14-4	Aroclor-1268	40.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:25:11
Operator	: borges	Sample Name	: 1515542016
Sample Number	: 36	Study	: F9M34
AutoSampler	: HP7673A	Rack/Vial	: 0/36
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	: 06/13/2015 02:58:35	Cycle	: 19

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Result File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_036.rst
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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
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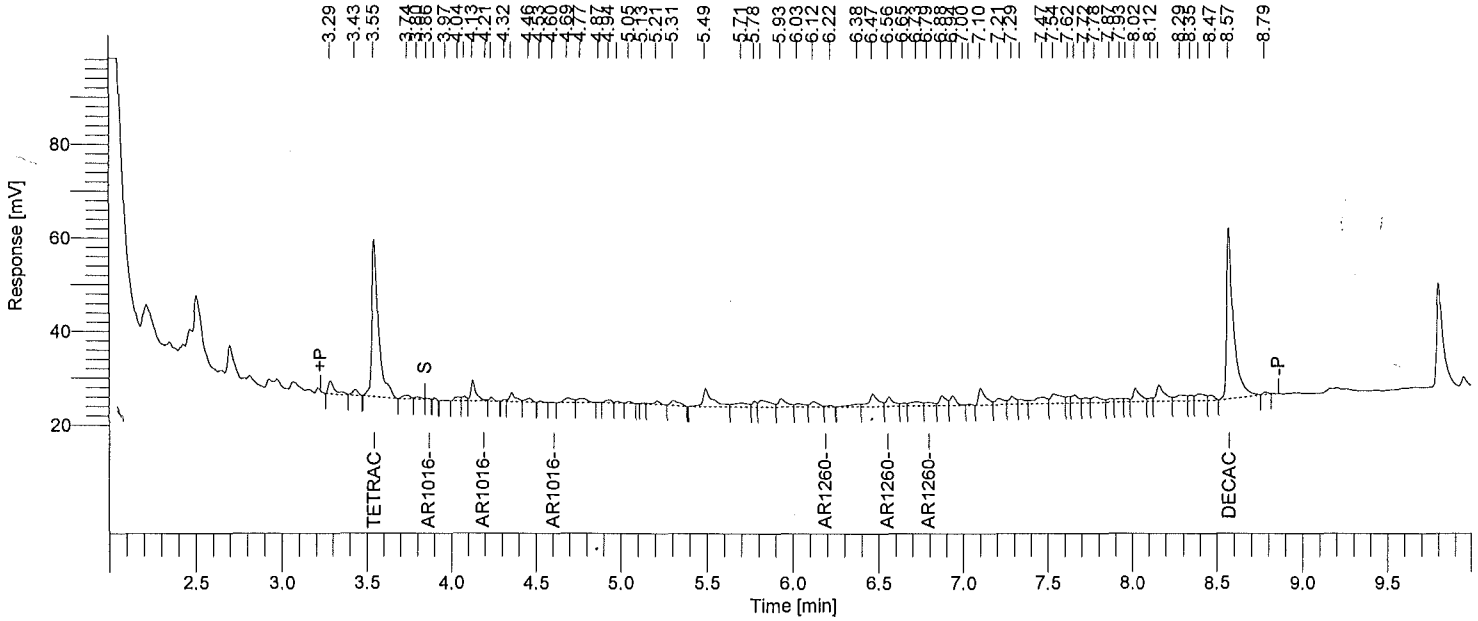

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
3.55	Tetrachloro-m-xylene	92706	0.04757899	1	10	0.03005	0.998	1.6639	15.83328	19.97	79.3
3.86	AR1016-1	365	9.4220e-03	1	10	0.03005	0.998	33.2779	3.13544	0.00	------
4.21	AR1016-2	388	4.8438e-03	1	10	0.03005	0.998	33.2779	1.61191	0.00	------
4.60	AR1016-3	94	6.2384e-04	1	10	0.03005	0.998	33.2779	0.20760	0.00	------
6.22	AR1260-1	873	9.9902e-03	1	10	0.03005	0.998	33.2779	3.32453	0.00	------
6.56	AR1260-2	5963	0.11718909	1	10	0.03005	0.998	33.2779	38.99803	0.00	------
6.79	AR1260-3	2781	0.04944822	1	10	0.03005	0.998	33.2779	16.45531	0.00	------
8.57	Decachlorobiphenyl	99707	0.10434640	1	10	0.03005	0.998	3.3278	34.72426	39.93	87.0

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:17:36
Operator	: borges	Sample Name	: 1515542016
Sample Number	: 36	Study	: F9M34
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	: 06/13/2015 03:14:59	Cycle	: 20

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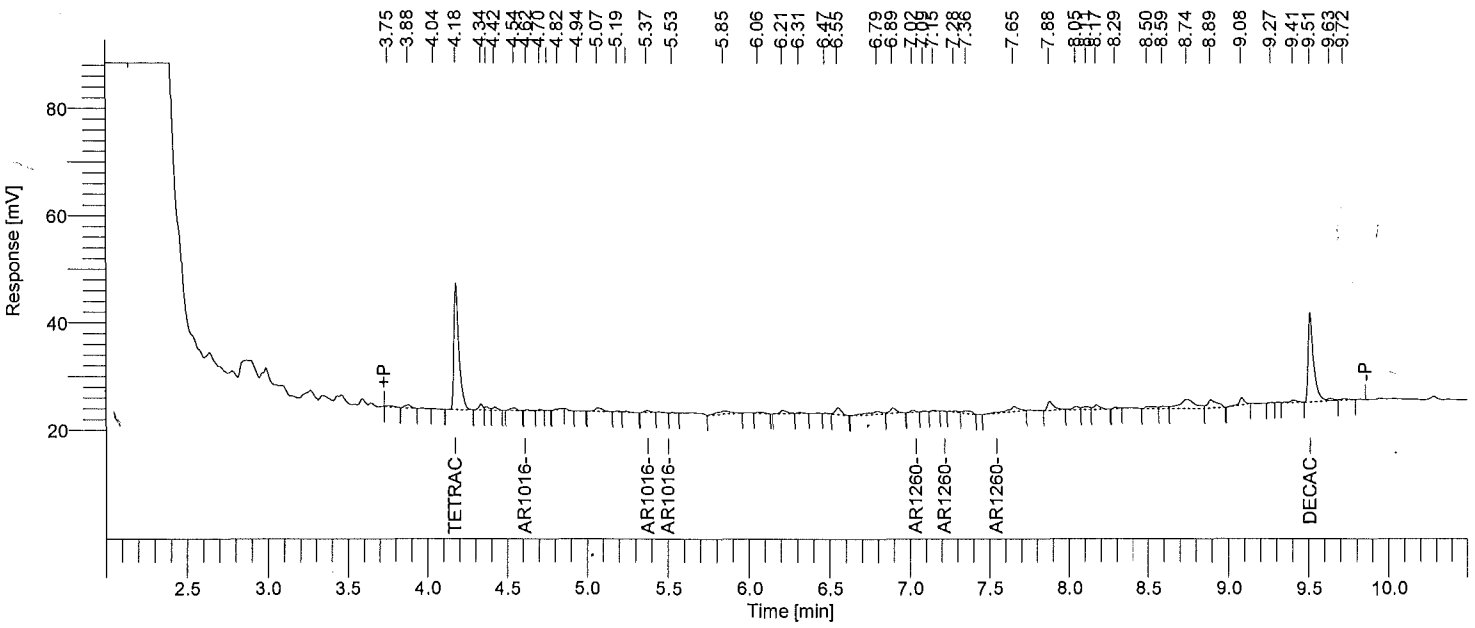
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_036.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_036.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612_SOM_AROS_F9M21_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 %
4.18	Tetrachloro-m-xylene	51989	0.04877030	1	10	0.03005	0.998	1.6639	16.22972	19.97	81.3
4.62	AR1016-1	442	0.01934365	1	10	0.03005	0.998	33.2779	6.43715	0.00	------
5.37	AR1016-2	1025	0.01422695	1	10	0.03005	0.998	33.2779	4.73443	0.00	------
5.53	AR1016-3	256	8.2109e-03	1	10	0.03005	0.998	33.2779	2.73241	0.00	------
7.02	AR1260-1	779	0.01865628	1	10	0.03005	0.998	33.2779	6.20841	0.00	------
7.21	AR1260-2	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
7.54	AR1260-3	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
9.51	Decachlorobiphenyl	38118	0.10606016	1	10	0.03005	0.998	3.3278	35.29456	39.93	88.4

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M35

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542017

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 20150612A037,20150612B037

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/13/2015

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	40.	U
11104-28-2	Aroclor-1221	40.	U
11141-16-5	Aroclor-1232	40.	U
53469-21-9	Aroclor-1242	40.	U
12672-29-6	Aroclor-1248	40.	U
11097-69-1	Aroclor-1254	40.	U
11096-82-5	Aroclor-1260	40.	U
37324-23-5	Aroclor-1262	40.	U
11100-14-4	Aroclor-1268	40.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:16:50
Operator	: borges	Sample Name	: 1515542017
Sample Number	: 37	Study	: F9M35
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		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/13/2015 03:14:59	Dilution Factor	: 1.00
		Cycle	: 20

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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_037.rst
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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
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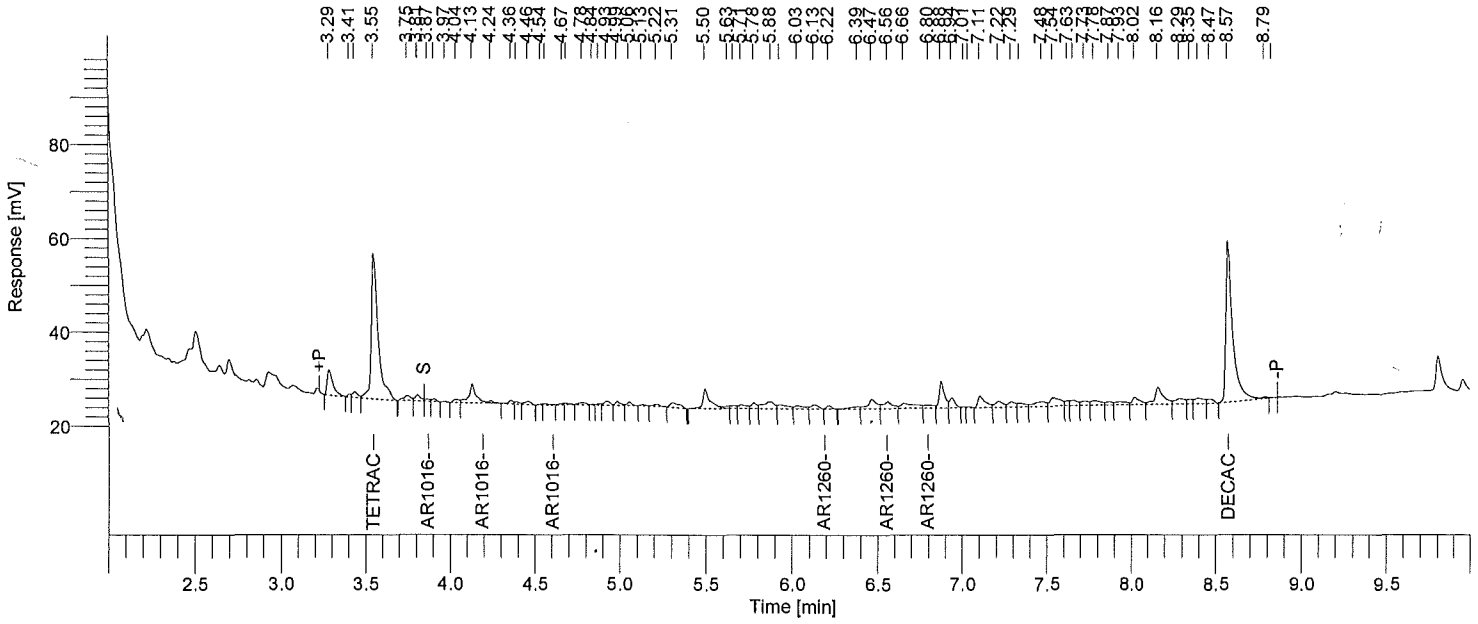

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
3.55	Tetrachloro-m-xylene	87971	0.04514851	1	10	0.03005	0.998	1.6639	15.02446	19.97	75.2
3.87	AR1016-1	1022	0.02639668	1	10	0.03005	0.998	33.2779	8.78425	0.00	------
4.19	AR1016-2	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
4.56	AR1016-3	892	5.9316e-03	1	10	0.03005	0.998	33.2779	1.97391	0.00	------
6.22	AR1260-1	1408	0.01611734	1	10	0.03005	0.998	33.2779	5.36351	0.00	------
6.56	AR1260-2	5786	0.11371094	1	10	0.03005	0.998	33.2779	37.84058	0.00	------
6.80	AR1260-3	2659	0.04728539	1	10	0.03005	0.998	33.2779	15.73557	0.00	------
8.57	Decachlorobiphenyl	93892	0.09826029	1	10	0.03005	0.998	3.3278	32.69893	39.93	81.9

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:17:38
Operator	: borges	Sample Name	: 1515542017
Sample Number	: 37	Study	: F9M35
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	: 06/13/2015 03:31:05	Cycle	: 21

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Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_037.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
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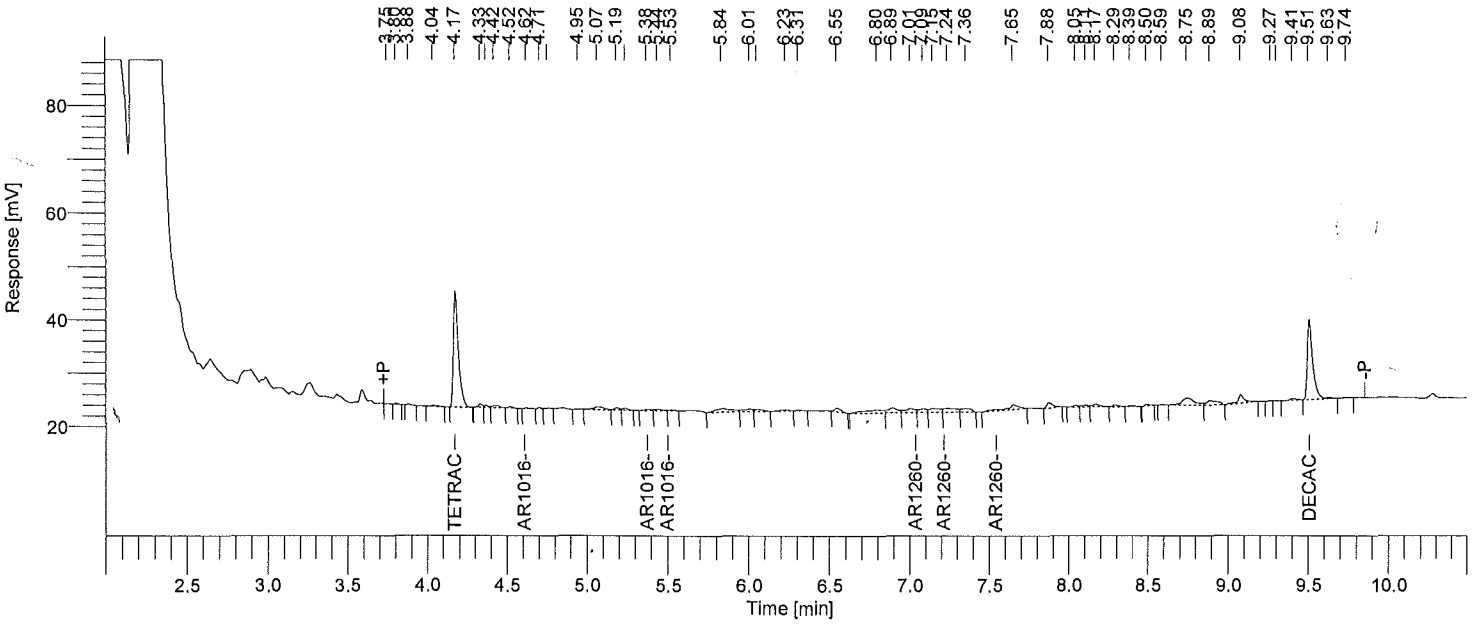

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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	47672	0.04472128	1	10	0.03005	0.998	1.6639	14.88229	19.97	74.5
4.62	AR1016-1	410	0.01798355	1	10	0.03005	0.998	33.2779	5.98454	0.00	------
5.38	AR1016-2	718	9.9688e-03	1	10	0.03005	0.998	33.2779	3.31741	0.00	------
5.53	AR1016-3	415	0.01330172	1	10	0.03005	0.998	33.2779	4.42653	0.00	------
7.01	AR1260-1	3145	0.07532017	1	10	0.03005	0.998	33.2779	25.06495	0.00	------
7.24	AR1260-2	4147	0.09550620	1	10	0.03005	0.998	33.2779	31.78243	0.00	------
7.54	AR1260-3	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
9.51	Decachlorobiphenyl	33951	0.09446554	1	10	0.03005	0.998	3.3278	31.43612	39.93	78.7

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M37

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542018

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 20150612A038,20150612B038

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/13/2015

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	38.	U
11104-28-2	Aroclor-1221	38.	U
11141-16-5	Aroclor-1232	38.	U
53469-21-9	Aroclor-1242	38.	U
12672-29-6	Aroclor-1248	38.	U
11097-69-1	Aroclor-1254	38.	U
11096-82-5	Aroclor-1260	38.	U
37324-23-5	Aroclor-1262	38.	U
11100-14-4	Aroclor-1268	38.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:16:51
Operator	: borges	Sample Name	: 1515542018
Sample Number	: 38	Study	: F9M37
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	: 06/13/2015 03:31:05	Dilution Factor	: 1.00
		Cycle	: 21

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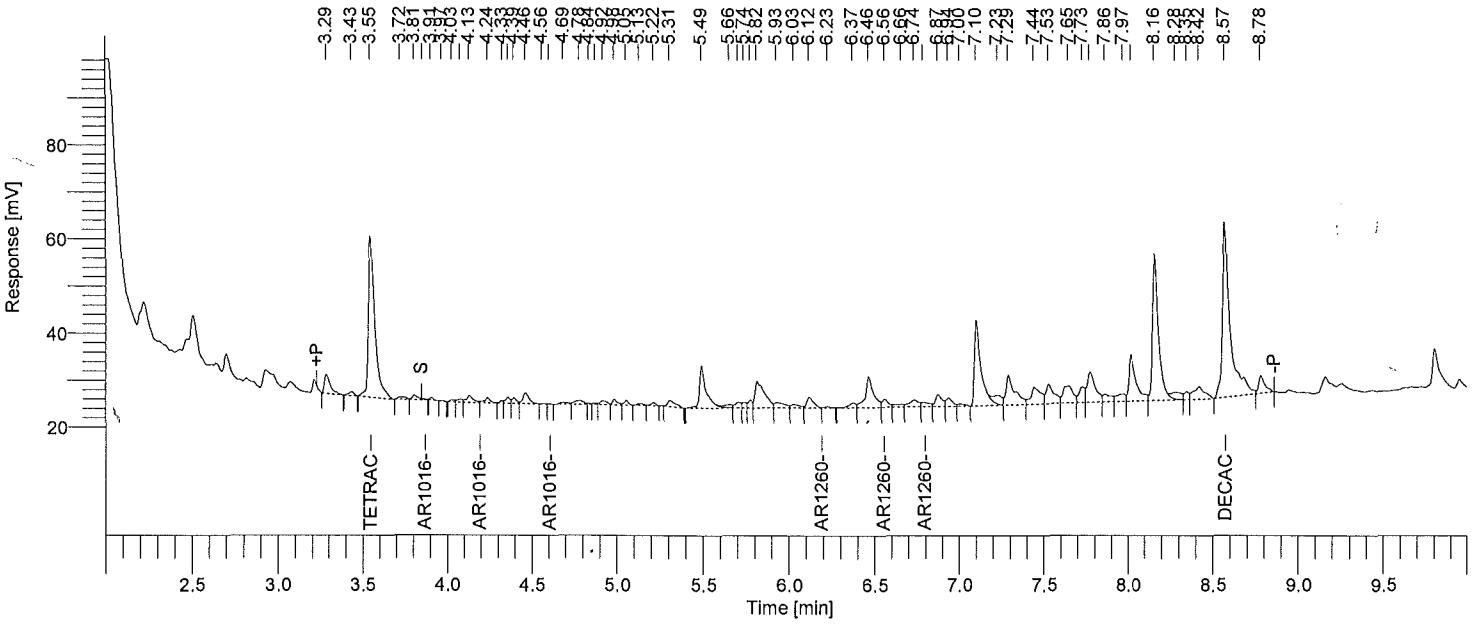

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
3.55	Tetrachloro-m-xylene	91731	0.04707826	1	10	0.03005	0.998	1.6639	15.66664	19.97	78.5
3.85	AR1016-1	159	4.0957e-03	1	10	0.03005	0.998	33.2779	1.36297	0.00	------
4.24	AR1016-2	2287	0.02856370	1	10	0.03005	0.998	33.2779	9.50539	0.00	------
4.60	AR1016-3	141	9.4076e-04	1	10	0.03005	0.998	33.2779	0.31307	0.00	------
6.23	AR1260-1	558	6.3864e-03	1	10	0.03005	0.998	33.2779	2.12524	0.00	------
6.56	AR1260-2	4205	0.08264749	1	10	0.03005	0.998	33.2779	27.50332	0.00	------
6.79	AR1260-3	3039	0.05403441	1	10	0.03005	0.998	33.2779	17.98150	0.00	------
8.57	Decachlorobiphenyl	118036	0.12352730	1	10	0.03005	0.998	3.3278	41.10726	39.93	102.9

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:17:39
Operator	: borges	Sample Name	: 1515542018
Sample Number	: 38	Study	: F9M37
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	: 06/13/2015 03:47:09	Cycle	: 22

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_038.raw
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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_038.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_038.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
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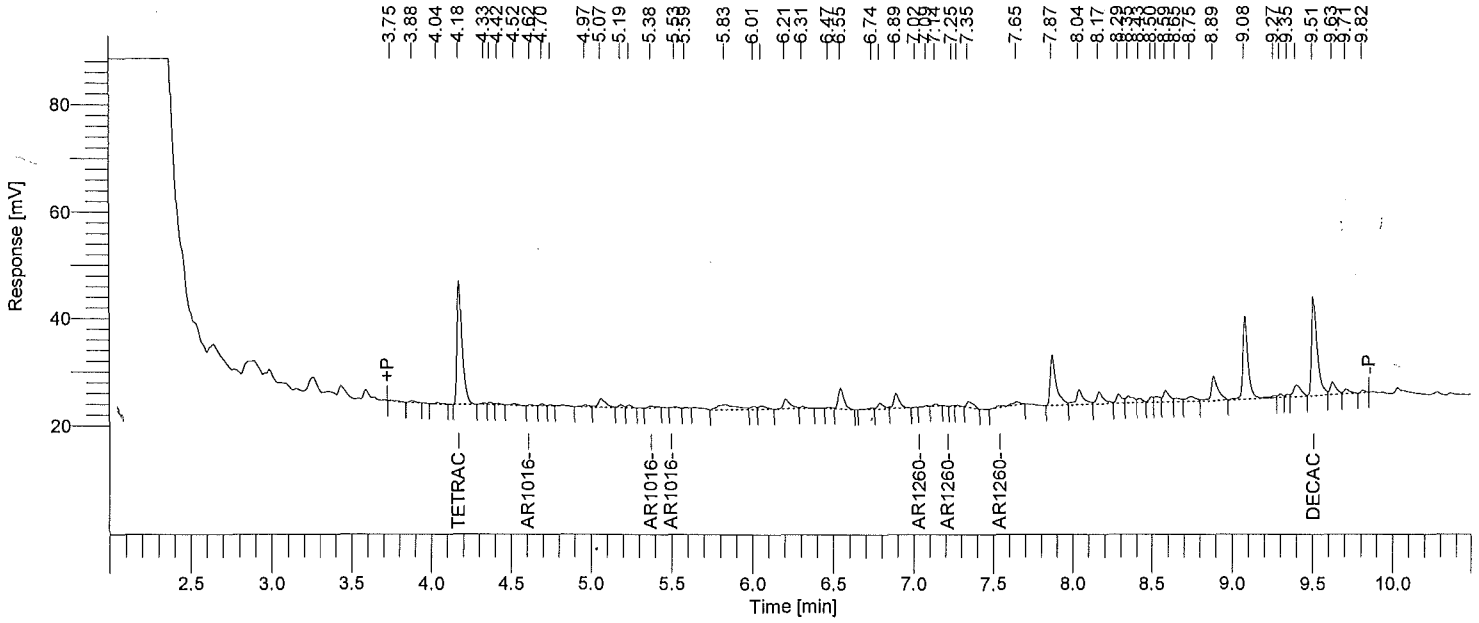


Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
4.18	Tetrachloro-m-xylene	51367	0.04818715	1	10	0.03005	0.998	1.6639	16.03566	19.97	80.3
4.62	AR1016-1	496	0.02173482	1	10	0.03005	0.998	33.2779	7.23288	0.00	------
5.38	AR1016-2	874	0.01213315	1	10	0.03005	0.998	33.2779	4.03765	0.00	------
5.53	AR1016-3	454	0.01454181	1	10	0.03005	0.998	33.2779	4.83920	0.00	------
7.02	AR1260-1	95	2.2759e-03	1	10	0.03005	0.998	33.2779	0.75737	0.00	------
7.25	AR1260-2	337	7.7546e-03	1	10	0.03005	0.998	33.2779	2.58055	0.00	------
7.54	AR1260-3	0	0.00000000	1	10	0.03005	0.998	---------	0.00000	--------	------
9.51	Decachlorobiphenyl	45142	0.12560470	1	10	0.03005	0.998	3.3278	41.79857	39.93	104.7

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M38

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542019

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 20150612A039,20150612B039

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/13/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

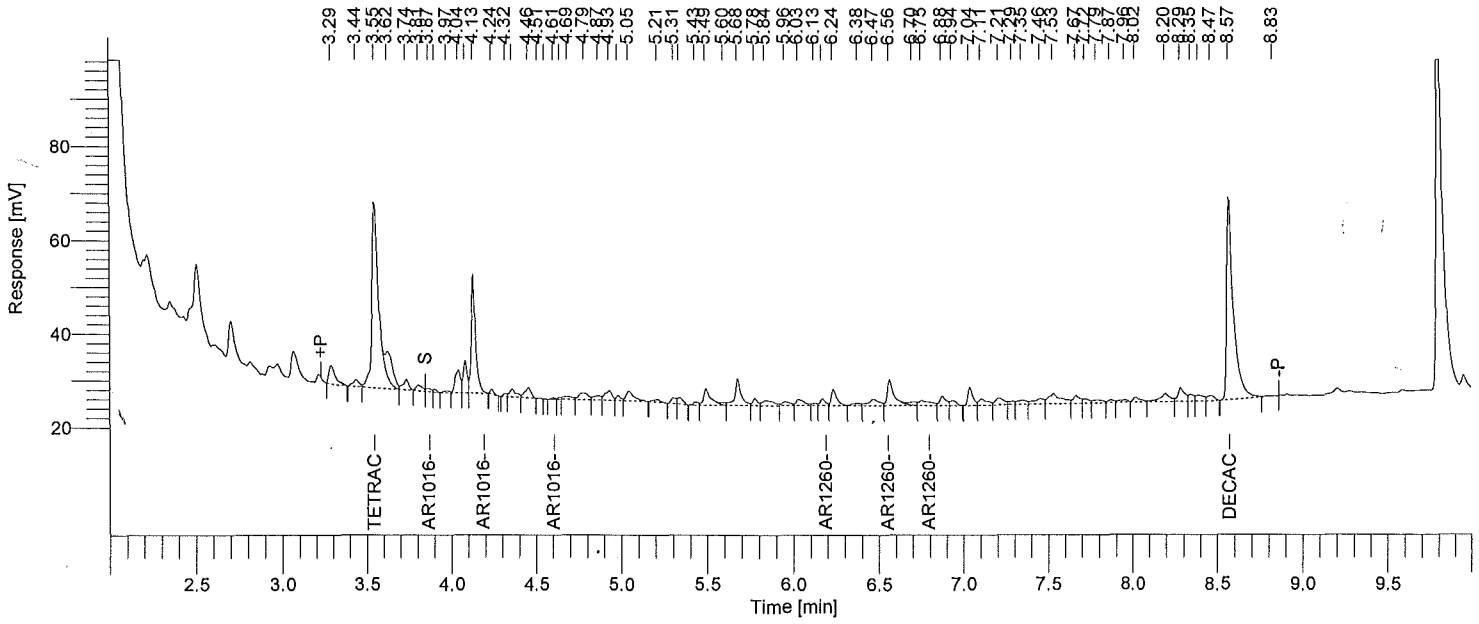
GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	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	: 06/16/2015 19:16:53
Operator	: borges	Sample Name	: 1515542019
Sample Number	: 39	Study	: F9M38
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	: 06/13/2015 03:47:09	Cycle	: 22

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_039.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_039.rst
Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150612\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_039.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_039.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_039.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612_SOM_AROS_F9M21_A.seq



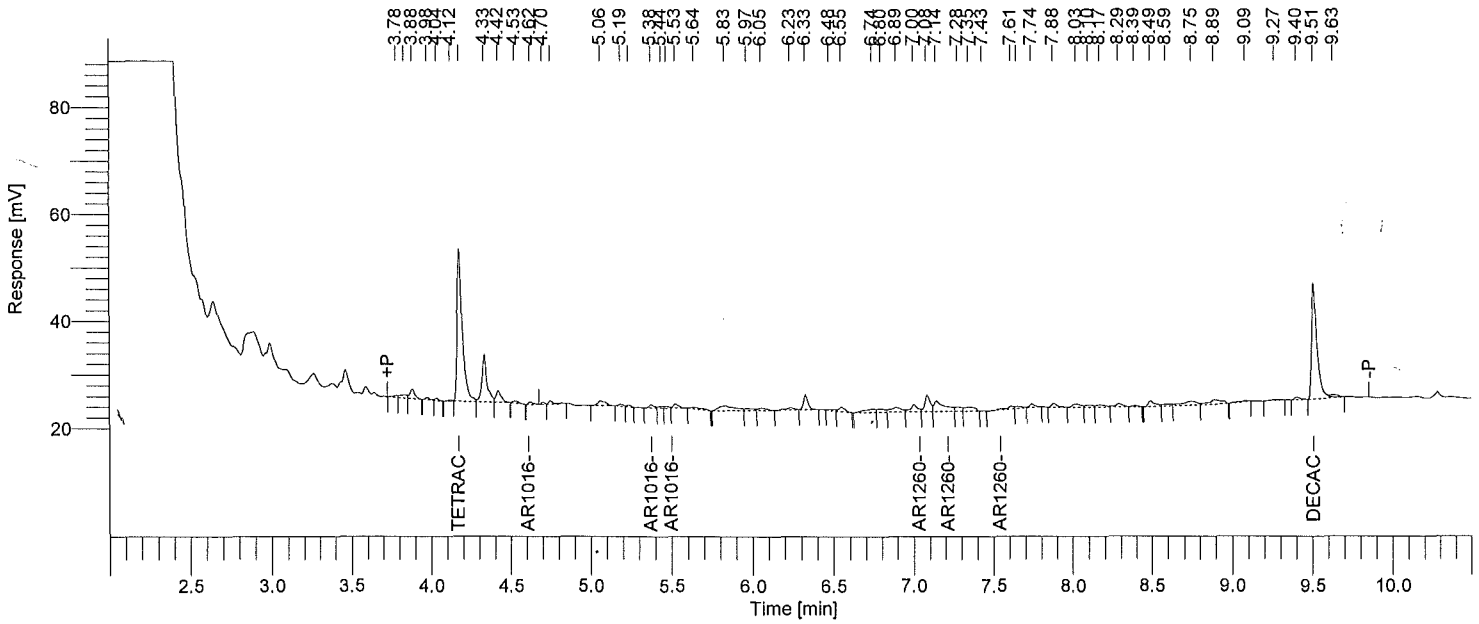
Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
3.55	Tetrachloro-m-xylene	114463	0.05874524	1	10	0.03031	0.990	1.6496	19.38147	19.80	97.9
3.87	AR1016-1	1510	0.03897055	1	10	0.03031	0.990	32.9924	12.85732	0.00	------
4.24	AR1016-2	1300	0.01623265	1	10	0.03031	0.990	32.9924	5.35554	0.00	------
4.61	AR1016-3	561	3.7285e-03	1	10	0.03031	0.990	32.9924	1.23012	0.00	------
6.17	AR1260-1	2992	0.03424928	1	10	0.03031	0.990	32.9924	11.29966	0.00	------
6.56	AR1260-2	15351	0.30169180	1	10	0.03031	0.990	32.9924	99.53540	0.00	------
6.75	AR1260-3	5008	0.08904531	1	10	0.03031	0.990	32.9924	29.37820	0.00	------
8.57	Decachlorobiphenyl	115610	0.12098940	1	10	0.03031	0.990	3.2992	39.91732	39.59	100.8

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:17:41
Operator	: borges	Sample Name	: 1515542019
Sample Number	: 39	Study	: F9M38
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	: 06/13/2015 04:03:13	Cycle	: 23

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_039.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_039.rst
Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150612\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_039.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_039.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_039.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612_SOM_AROS_F9M21_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	65287	0.06124557	1	10	0.03031	0.990	1.6496	20.20639	19.80	102.1
4.62	AR1016-1	927	0.04061360	1	10	0.03031	0.990	32.9924	13.39941	0.00	------
5.38	AR1016-2	1487	0.02065138	1	10	0.03031	0.990	32.9924	6.81339	0.00	------
5.53	AR1016-3	1650	0.05289838	1	10	0.03031	0.990	32.9924	17.45245	0.00	------
7.00	AR1260-1	4001	0.09583544	1	10	0.03031	0.990	32.9924	31.61842	0.00	------
7.21	AR1260-2	0	0.00000000	1	10	0.03031	0.990	---------	0.00000	--------	------
7.54	AR1260-3	0	0.00000000	1	10	0.03031	0.990	---------	0.00000	--------	------
9.51	Decachlorobiphenyl	49017	0.13638658	1	10	0.03031	0.990	3.2992	44.99722	39.59	113.7

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M39

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542020

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 20150612A040,20150612B040

% Moisture: 13. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/13/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 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	: 06/16/2015 19:16:54
Operator	: borges	Sample Name	: 1515542020
Sample Number	: 40	Study	: F9M39
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		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/13/2015 04:03:13	Dilution Factor	: 1.00
		Cycle	: 23

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_040.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_040.rst
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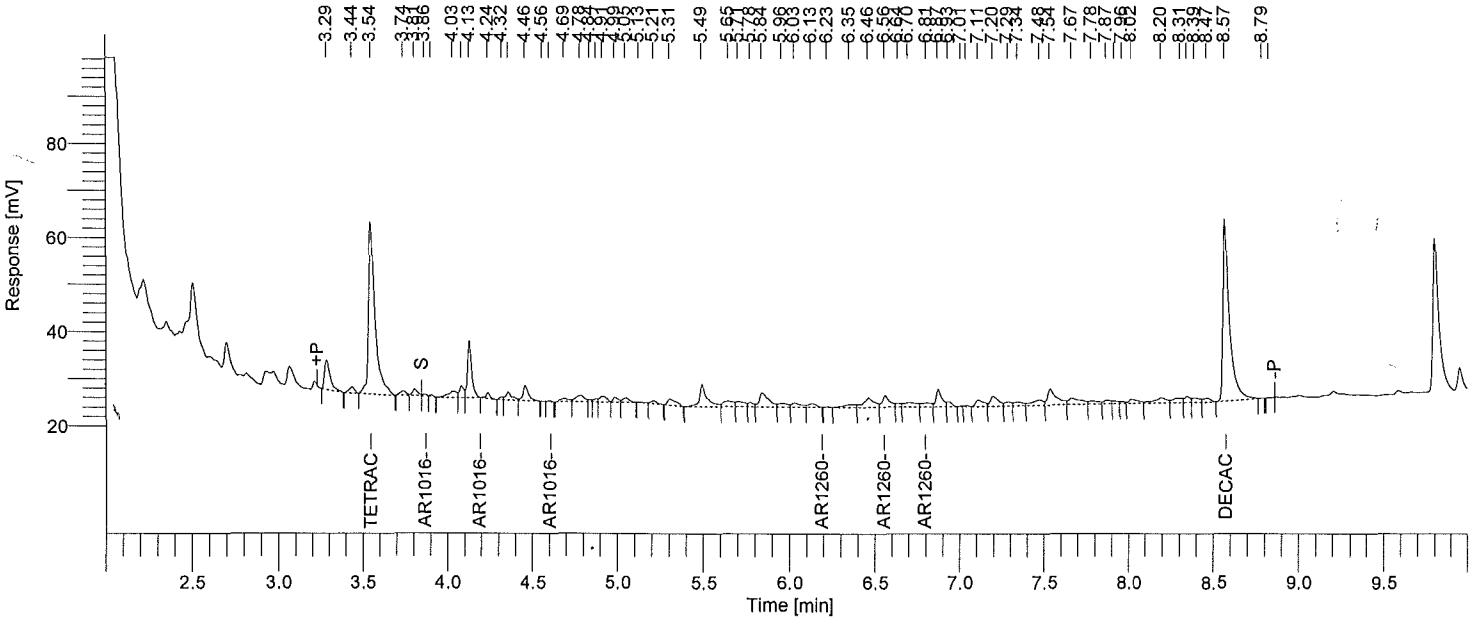
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_040.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612_SOM_AROS_F9M21_A.seq



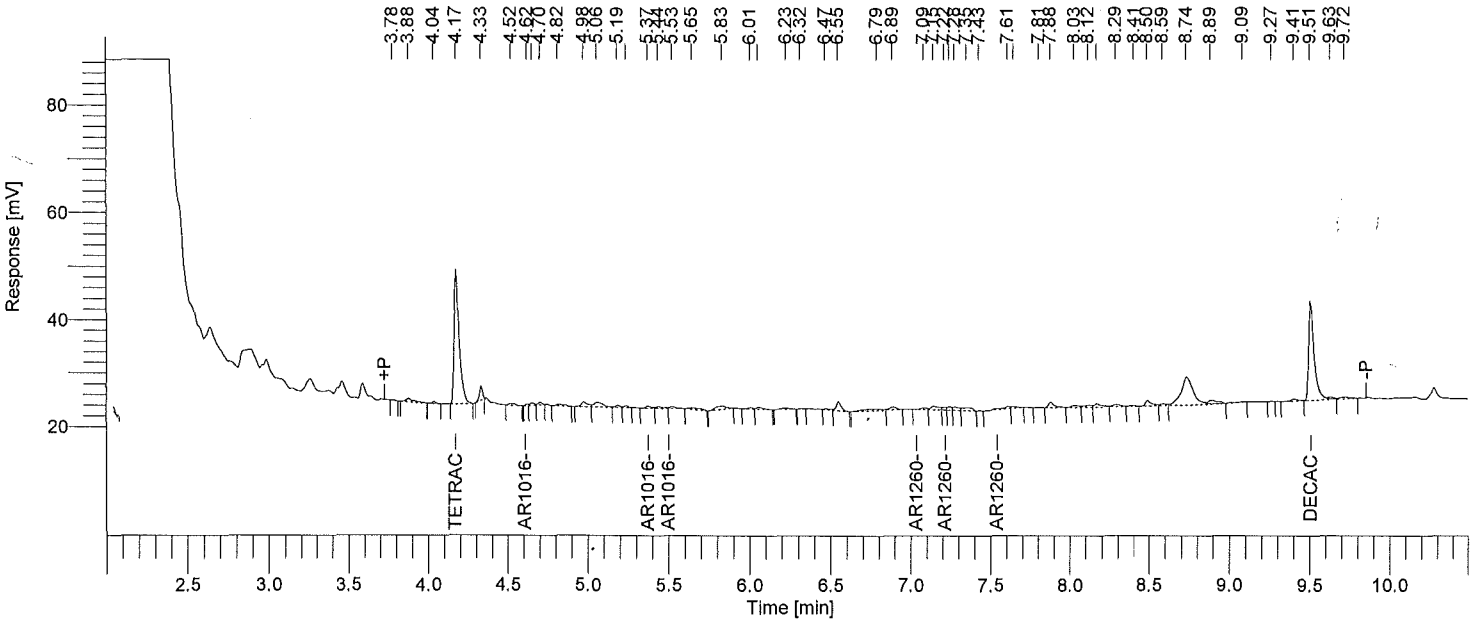
Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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	101851	0.05227203	1	10	0.03034	0.989	1.6480	17.22875	19.78	87.1
3.86	AR1016-1	491	0.01266631	1	10	0.03034	0.989	32.9598	4.17479	0.00	------
4.24	AR1016-2	1977	0.02469704	1	10	0.03034	0.989	32.9598	8.14009	0.00	------
4.60	AR1016-3	302	2.0087e-03	1	10	0.03034	0.989	32.9598	0.66207	0.00	------
6.23	AR1260-1	202	2.3166e-03	1	10	0.03034	0.989	32.9598	0.76356	0.00	------
6.56	AR1260-2	7414	0.14570813	1	10	0.03034	0.989	32.9598	48.02509	0.00	------
6.81	AR1260-3	3568	0.06344567	1	10	0.03034	0.989	32.9598	20.91156	0.00	------
8.57	Decachlorobiphenyl	102584	0.10735673	1	10	0.03034	0.989	3.2960	35.38455	39.55	89.5

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:17:43
Operator	: borges	Sample Name	: 1515542020
Sample Number	: 40	Study	: F9M39
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/13/2015 04:19:21	Cycle	: 24

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_040.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_040.rst
Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150612\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_040.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_040.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_040.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612_SOM_AROS_F9M21_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	55612	0.05216962	1	10	0.03034	0.989	1.6480	17.19500	19.78	86.9
4.62	AR1016-1	370	0.01622062	1	10	0.03034	0.989	32.9598	5.34628	0.00	------
5.37	AR1016-2	1170	0.01624274	1	10	0.03034	0.989	32.9598	5.35357	0.00	------
5.53	AR1016-3	748	0.02397933	1	10	0.03034	0.989	32.9598	7.90354	0.00	------
7.09	AR1260-1	938	0.02245656	1	10	0.03034	0.989	32.9598	7.40164	0.00	------
7.22	AR1260-2	1031	0.02374091	1	10	0.03034	0.989	32.9598	7.82495	0.00	------
7.54	AR1260-3	0	0.00000000	1	10	0.03034	0.989	---------	0.00000	--------	------
9.51	Decachlorobiphenyl	42908	0.11939054	1	10	0.03034	0.989	3.2960	39.35087	39.55	99.5

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M40

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542021

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 20150612A041,20150612B041

% Moisture: 13. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/13/2015

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	38.	U
11104-28-2	Aroclor-1221	38.	U
11141-16-5	Aroclor-1232	38.	U
53469-21-9	Aroclor-1242	38.	U
12672-29-6	Aroclor-1248	38.	U
11097-69-1	Aroclor-1254	38.	U
11096-82-5	Aroclor-1260	38.	U
37324-23-5	Aroclor-1262	38.	U
11100-14-4	Aroclor-1268	38.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:16:57
Operator	: borges	Sample Name	: 1515542021
Sample Number	: 41	Study	: F9M40
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/13/2015 04:19:21	Cycle	: 24

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Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_041.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
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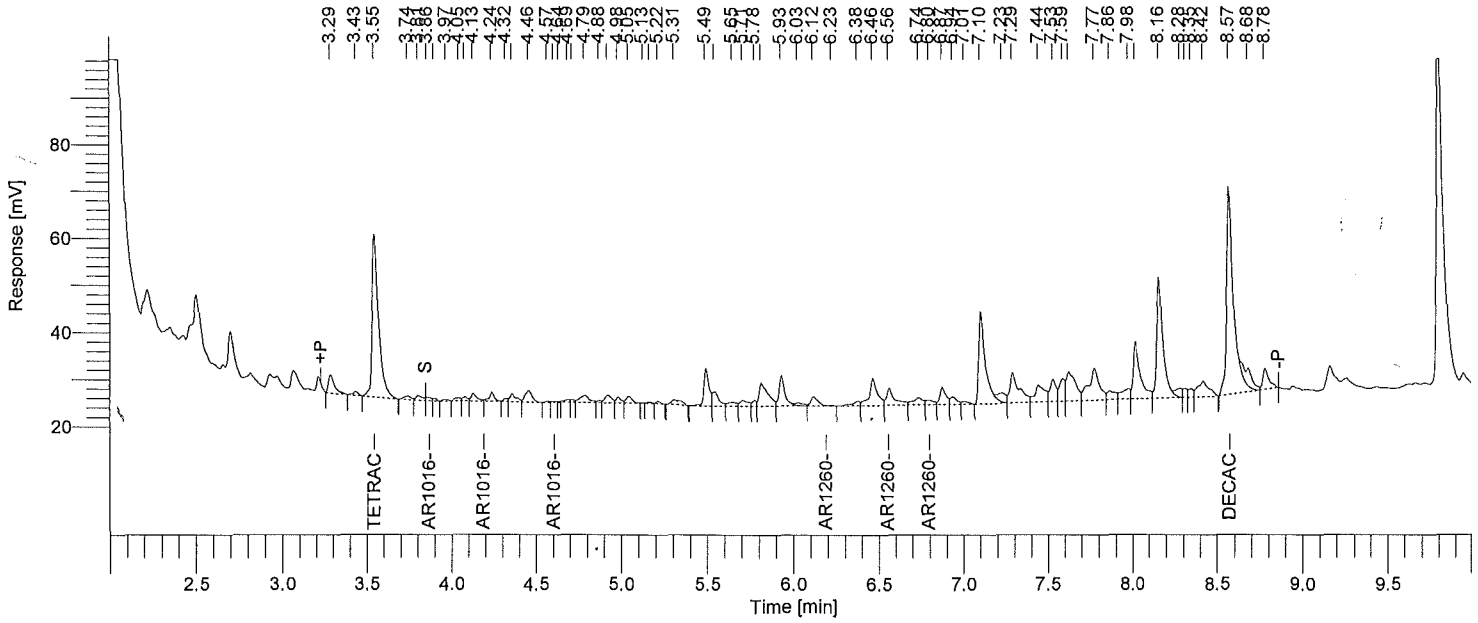

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
3.55	Tetrachloro-m-xylene	93144	0.04780345	1	10	0.03020	0.993	1.6556	15.82896	19.87	79.7
3.86	AR1016-1	1587	0.04096337	1	10	0.03020	0.993	33.1126	13.56403	0.00	------
4.24	AR1016-2	3800	0.04745851	1	10	0.03020	0.993	33.1126	15.71474	0.00	------
4.61	AR1016-3	524	3.4826e-03	1	10	0.03020	0.993	33.1126	1.15317	0.00	------
6.23	AR1260-1	348	3.9813e-03	1	10	0.03020	0.993	33.1126	1.31832	0.00	------
6.56	AR1260-2	12017	0.23615517	1	10	0.03020	0.993	33.1126	78.19708	0.00	------
6.80	AR1260-3	3253	0.05784181	1	10	0.03020	0.993	33.1126	19.15292	0.00	------
8.57	Decachlorobiphenyl	124113	0.12988763	1	10	0.03020	0.993	3.3113	43.00915	39.74	108.2

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:17:45
Operator	: borges	Sample Name	: 1515542021
Sample Number	: 41	Study	: F9M40
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	: 06/13/2015 04:35:41	Cycle	: 25

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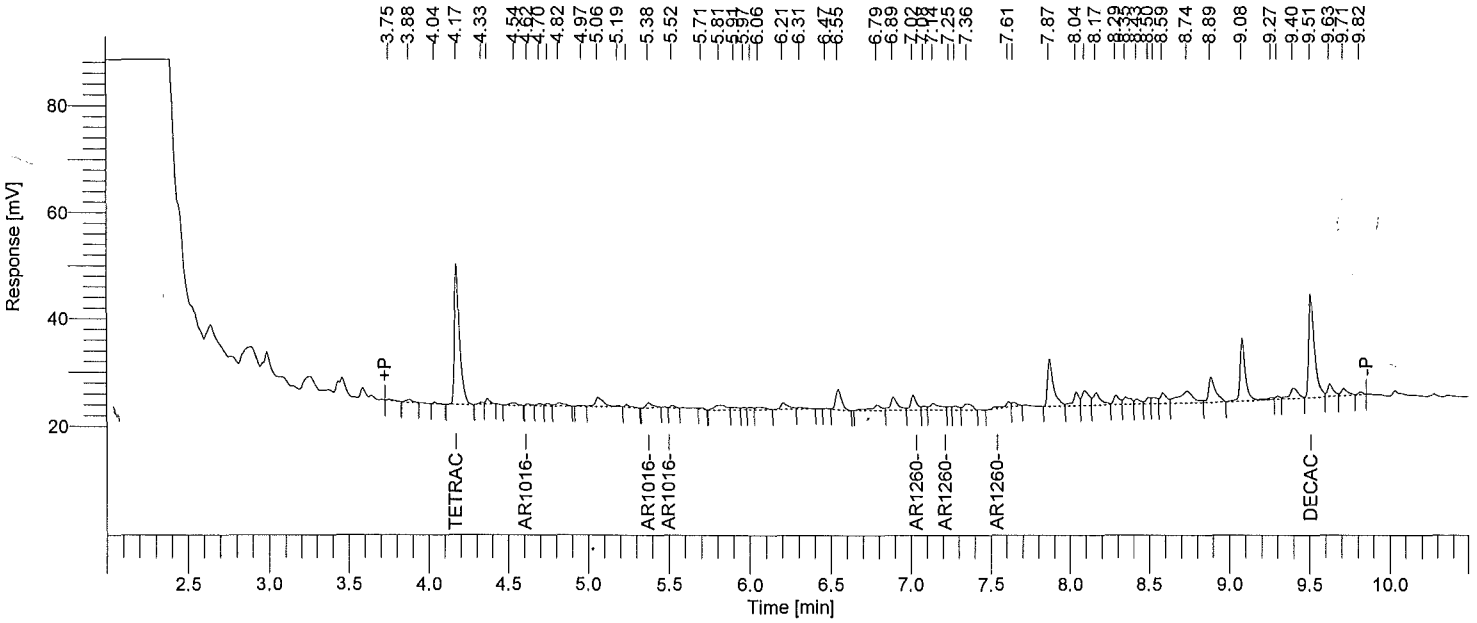
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_041.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612_SOM_AROS_F9M21_A.seq



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	58171	0.05457009	1	10	0.03020	0.993	1.6556	18.06957	19.87	91.0
4.62	AR1016-1	621	0.02720376	1	10	0.03020	0.993	33.1126	9.00787	0.00	------
5.38	AR1016-2	2668	0.03704293	1	10	0.03020	0.993	33.1126	12.26587	0.00	------
5.52	AR1016-3	850	0.02724352	1	10	0.03020	0.993	33.1126	9.02103	0.00	------
7.02	AR1260-1	6726	0.16109326	1	10	0.03020	0.993	33.1126	53.34214	0.00	------
7.25	AR1260-2	1162	0.02675941	1	10	0.03020	0.993	33.1126	8.86073	0.00	------
7.54	AR1260-3	0	0.00000000	1	10	0.03020	0.993	---------	0.00000	--------	------
9.51	Decachlorobiphenyl	46926	0.13056925	1	10	0.03020	0.993	3.3113	43.23485	39.74	108.8

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M41

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542022

Sample wt/vol: 30.5 (g/mL) g Lab File ID: 20150612A042,20150612B042

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/13/2015

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	38.	U
11104-28-2	Aroclor-1221	38.	U
11141-16-5	Aroclor-1232	38.	U
53469-21-9	Aroclor-1242	38.	U
12672-29-6	Aroclor-1248	38.	U
11097-69-1	Aroclor-1254	38.	U
11096-82-5	Aroclor-1260	38.	U
37324-23-5	Aroclor-1262	38.	U
11100-14-4	Aroclor-1268	38.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:16:59
Operator	: borges	Sample Name	: 1515542022
Sample Number	: 42	Study	: F9M41
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	: 06/13/2015 04:35:41	Cycle	: 25

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_042.raw
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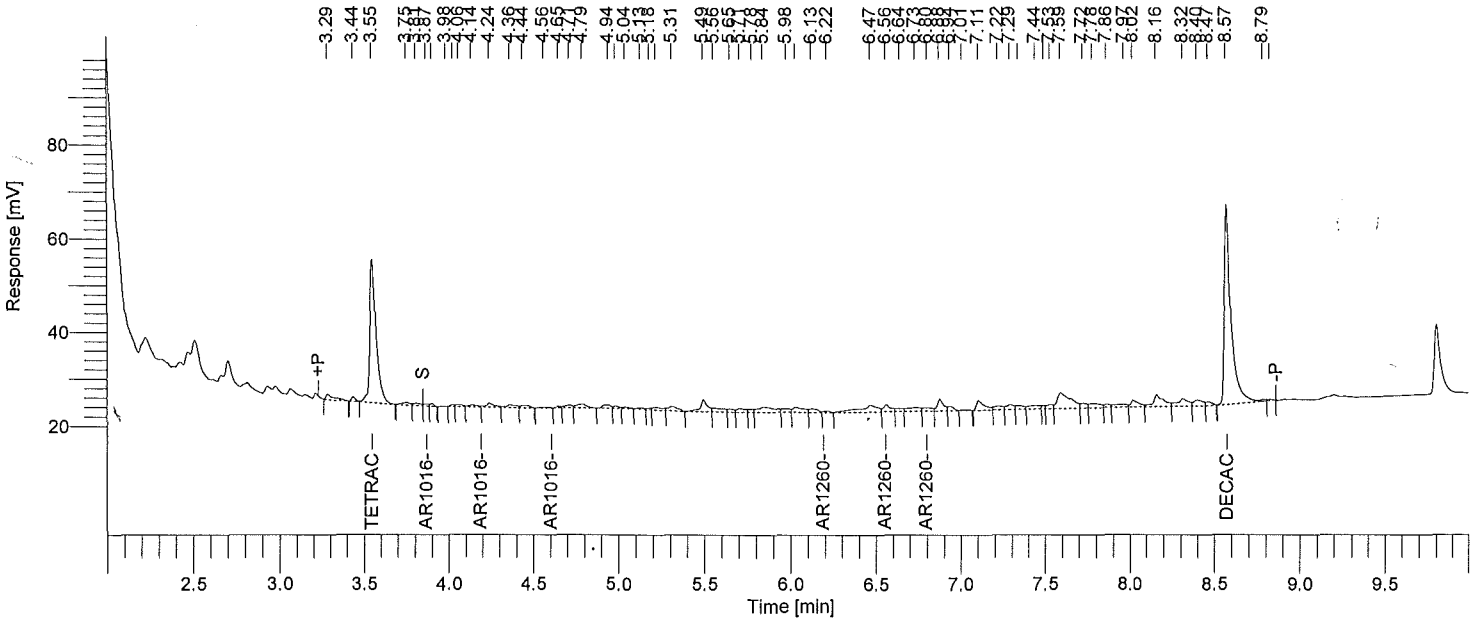
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_042.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612_SOM_AROS_F9M21_A.seq



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 %
3.55	Tetrachloro-m-xylene	80260	0.04119108	1	10	0.03046	0.985	1.6415	13.52301	19.70	68.7
3.87	AR1016-1	951	0.02456177	1	10	0.03046	0.985	32.8299	8.06362	0.00	------
4.19	AR1016-2	0	0.00000000	1	10	0.03046	0.985	---------	0.00000	--------	------
4.56	AR1016-3	612	4.0705e-03	1	10	0.03046	0.985	32.8299	1.33635	0.00	------
6.22	AR1260-1	783	8.9690e-03	1	10	0.03046	0.985	32.8299	2.94452	0.00	------
6.56	AR1260-2	4184	0.08221706	1	10	0.03046	0.985	32.8299	26.99181	0.00	------
6.80	AR1260-3	2723	0.04841897	1	10	0.03046	0.985	32.8299	15.89592	0.00	------
8.57	Decachlorobiphenyl	116384	0.12179851	1	10	0.03046	0.985	3.2830	39.98638	39.40	101.5

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:17:48
Operator	: borges	Sample Name	: 1515542022
Sample Number	: 42	Study	: F9M41
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	: 06/13/2015 04:51:51	Cycle	: 26

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_042.raw
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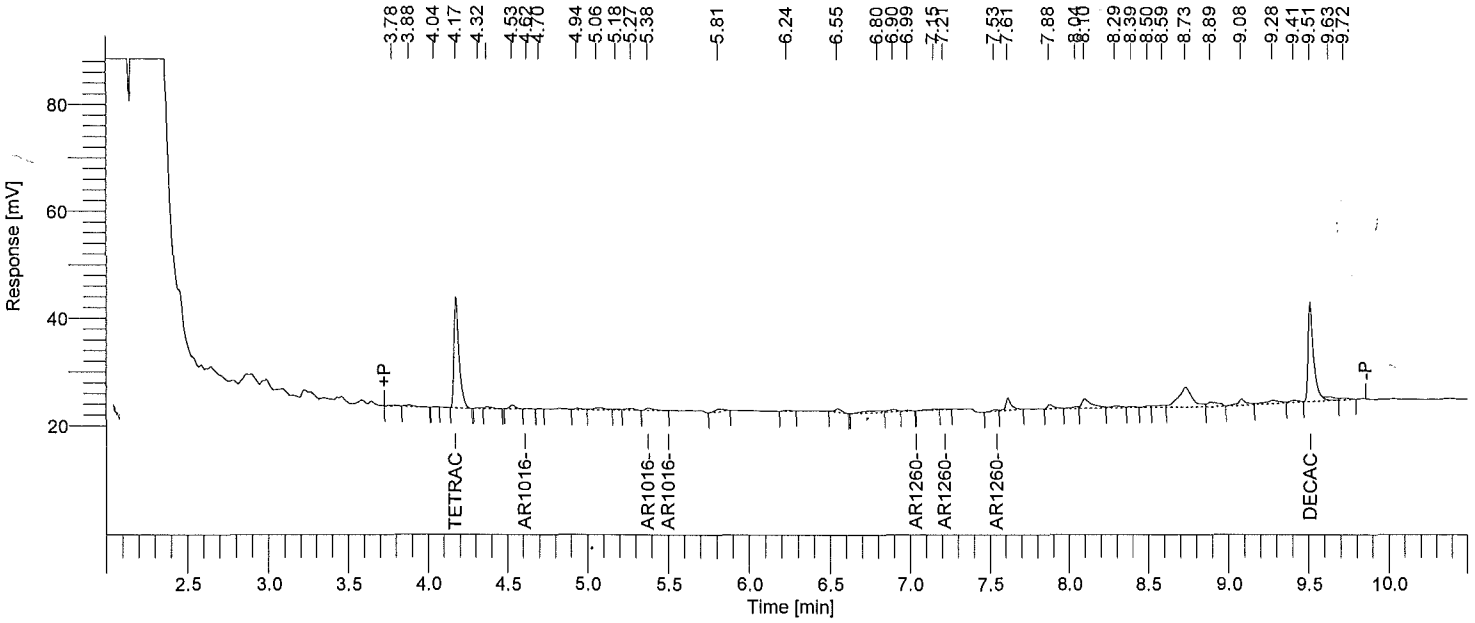
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_042.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612_SOM_AROS_F9M21_A.seq



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	45349	0.04254139	1	10	0.03046	0.985	1.6415	13.96631	19.70	70.9
4.62	AR1016-1	271	0.01185169	1	10	0.03046	0.985	32.8299	3.89090	0.00	------
5.38	AR1016-2	1494	0.02074410	1	10	0.03046	0.985	32.8299	6.81027	0.00	------
5.50	AR1016-3	0	0.00000000	1	10	0.03046	0.985	---------	0.00000	--------	------
6.99	AR1260-1	491	0.01175937	1	10	0.03046	0.985	32.8299	3.86060	0.00	------
7.21	AR1260-2	336	7.7391e-03	1	10	0.03046	0.985	32.8299	2.54074	0.00	------
7.53	AR1260-3	904	0.01866701	1	10	0.03046	0.985	32.8299	6.12837	0.00	------
9.51	Decachlorobiphenyl	43185	0.12016039	1	10	0.03046	0.985	3.2830	39.44858	39.40	100.1

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.: F9M21

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: 06/12/2015 06/12/2015

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	4.61	4.61	4.61	4.61	4.61	4.54	4.68
	4								
	5								
TCX		3.55	3.55	3.55	3.55	3.55	3.55	3.50	3.60
DCB		8.58	8.58	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	6.56	6.56	6.55	6.55	6.55	6.55	6.48	6.62
	3	6.80	6.80	6.80	6.80	6.80	6.80	6.73	6.87
	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.: F9M21

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: 06/12/2015 06/12/2015

COMPOUND	PEAK*	RT OF STANDARDS					$\overline{RT}$	RT WINDOW**	
		CS1	CS2	CS3	CS4	CS5		FROM	TO
AR1016	1	4.61	4.61	4.61	4.61	4.61	4.61	4.54	4.68
	2	5.38	5.38	5.38	5.37	5.37	5.38	5.31	5.45
	3	5.50	5.50	5.50	5.50	5.50	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	9.51	9.51	9.41	9.61
AR1260	1	7.04	7.04	7.04	7.04	7.03	7.04	6.97	7.11
	2	7.22	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.: F9M21

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: 06/12/2015 06/12/2015

COMPOUND	PEAK[1]	CALIBRATION FACTORS (CFs)					%RSD
		CS1	CS2	CS3	CS4	CS5	
AR1016	1	21300	18800	20100	19500	17100	8.0
	2	47000	43100	39500	37700	32800	13.5
	3	80800	77900	73700	75800	67700	6.6
	4						
	5						
TCX		994000	964000	990000	1000000	924000	3.2
DCB		489000	464000	475000	514000	446000	5.4
AR1260	1	48400	46200	41900	43300	38600	8.7
	2	24200	25400	24700	27600	25300	5.0
	3	30800	29100	27200	28000	25500	7.1
	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.: F9M21

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: 06/12/2015 06/12/2015

COMPOUND	PEAK[1]	CALIBRATION FACTORS (CFs)					%RSD
		CS1	CS2	CS3	CS4	CS5	
AR1016	1	13700	10600	11700	11300	9780	12.9
	2	37600	33600	38000	37500	33300	6.5
	3	15000	15300	16700	16400	14500	6.1
	4						
	5						
TCX		522000	465000	563000	579000	536000	8.3
DCB		190000	168000	192000	187000	161000	7.7
AR1260	1	23800	19900	21700	20800	18100	10.1
	2	24700	20800	22500	21700	18900	9.8
	3	25900	22600	25500	24900	22100	7.2
	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

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.: F9M21

Instrument ID: GCE20 Dates(s) Analyzed: 06/12/2015 06/12/2015

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	10400
		2	3.70	3.63	3.77	13200
		3	3.87	3.80	3.94	31300
		4				
		5				
Aroclor 1232	0.800	1	4.19	4.12	4.26	20300
		2	4.61	4.54	4.68	35200
		3	4.73	4.66	4.80	12700
		4				
		5				
Aroclor 1242	0.800	1	3.87	3.80	3.94	17600
		2	4.19	4.12	4.26	34500
		3	4.73	4.66	4.80	22400
		4				
		5				
Aroclor 1248	0.800	1	4.61	4.54	4.68	42100
		2	5.09	5.02	5.16	36200
		3	6.03	5.96	6.10	18800
		4				
		5				
Aroclor 1254	0.800	1	6.03	5.96	6.10	54100
		2	6.45	6.38	6.52	35000
		3	6.70	6.63	6.77	46400
		4				
		5				
Aroclor 1262	0.800	1	6.19	6.12	6.26	31200
		2	6.44	6.37	6.51	27100
		3	6.80	6.73	6.87	33300
		4				
		5				
Aroclor 1268	0.800	1	6.80	6.73	6.87	20300
		2	7.02	6.95	7.09	22800
		3	7.81	7.74	7.88	55000
		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.: F9M21

Instrument ID: GCE20 Dates(s) Analyzed: 06/12/2015 06/12/2015

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	4.43	4.36	4.50	6610
		3	4.61	4.54	4.68	17300
		4				
		5				
Aroclor 1232	0.800	1	4.61	4.54	4.68	12800
		2	5.38	5.31	5.45	14300
		3	5.50	5.43	5.57	6480
		4				
		5				
Aroclor 1242	0.800	1	4.61	4.54	4.68	10400
		2	5.38	5.31	5.45	32900
		3	5.50	5.43	5.57	14700
		4				
		5				
Aroclor 1248	0.800	1	5.38	5.31	5.45	20000
		2	6.03	5.96	6.10	18900
		3	6.87	6.80	6.94	8640
		4				
		5				
Aroclor 1254	0.800	1	6.29	6.22	6.36	20300
		2	6.45	6.38	6.52	17900
		3	6.76	6.69	6.83	13400
		4				
		5				
Aroclor 1262	0.800	1	7.04	6.97	7.11	15700
		2	7.22	7.15	7.29	16100
		3	7.89	7.82	7.96	16100
		4				
		5				
Aroclor 1268	0.800	1	7.62	7.55	7.69	8960
		2	7.90	7.83	7.97	11100
		3	8.72	8.65	8.79	24400
		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.: F9M21

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/12/2015 06/12/2015

EPA Sample No. (AR####3##): AR16603B1 Date Analyzed: 06/12/2015

Lab Sample ID: AR16603B1 Time Analyzed: 21:52

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	3.87	3.80	3.94	19400	19500	0.7
	2	4.19	4.12	4.26	40000	38100	-4.8
	3	4.61	4.54	4.68	75200	70400	-6.4
	4						
	5						
TCX		3.55	3.50	3.60	974000	948000	-2.7
DCB		8.58	8.47	8.67	478000	462000	-3.2
AR1260	1	6.19	6.12	6.26	43700	40300	-7.7
	2	6.56	6.48	6.62	25400	23400	-8.1
	3	6.80	6.73	6.87	28100	25800	-8.1
	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.: F9M21

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/12/2015 06/12/2015

EPA Sample No. (AR####3##): AR16603C1 Date Analyzed: 06/13/2015

Lab Sample ID: AR16603C1 Time Analyzed: 05:24

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	3.87	3.80	3.94	19400	19300	-0.2
	2	4.19	4.12	4.26	40000	39200	-2.1
	3	4.61	4.54	4.68	75200	73700	-1.9
	4						
	5						
TCX		3.55	3.50	3.60	974000	974000	0.0
DCB		8.57	8.47	8.67	478000	455000	-4.7
AR1260	1	6.19	6.12	6.26	43700	39500	-9.5
	2	6.55	6.48	6.62	25400	22600	-11.1
	3	6.79	6.73	6.87	28100	25400	-9.8
	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.: F9M21

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/12/2015 06/12/2015

EPA Sample No. (AR####3##): AR16603B2 Date Analyzed: 06/12/2015

Lab Sample ID: AR16603B2 Time Analyzed: 22:08

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	11400	11400	0.0
	2	5.38	5.31	5.45	36000	36200	0.7
	3	5.50	5.43	5.57	15600	16100	3.6
	4						
	5						
TCX		4.17	4.12	4.22	533000	547000	2.7
DCB		9.51	9.41	9.61	180000	188000	4.5
AR1260	1	7.04	6.97	7.11	20900	20800	-0.4
	2	7.21	7.14	7.28	21700	21400	-1.2
	3	7.54	7.47	7.61	24200	24100	-0.6
	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.: F9M21

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/12/2015 06/12/2015

EPA Sample No. (AR####3##): AR16603C2 Date Analyzed: 06/13/2015

Lab Sample ID: AR16603C2 Time Analyzed: 05:40

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	11400	11300	-0.7
	2	5.38	5.31	5.45	36000	33500	-7.0
	3	5.50	5.43	5.57	15600	14300	-8.1
	4						
	5						
TCX		4.17	4.12	4.22	533000	553000	3.8
DCB		9.51	9.41	9.61	180000	162000	-9.6
AR1260	1	7.04	6.97	7.11	20900	19400	-6.9
	2	7.22	7.14	7.28	21700	19900	-8.2
	3	7.54	7.47	7.61	24200	22400	-7.4
	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.: F9M21

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/12/2015 06/12/2015

Instrument ID: GCE20

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.55 DCB: 8.57

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR16601A1	20150612A004	06/12/2015	18:21	3.55	8.58
02	AR16602A1	20150612A005	06/12/2015	18:37	3.55	8.58
03	AR16603A1	20150612A006	06/12/2015	18:53	3.55	8.57
04	AR16604A1	20150612A007	06/12/2015	19:10	3.55	8.57
05	AR16605A1	20150612A008	06/12/2015	19:26	3.55	8.57
06	AR12213A1	20150612A009	06/12/2015	19:42	3.55	8.57
07	AR12323A1	20150612A010	06/12/2015	19:58	3.55	8.58
08	AR12423A1	20150612A011	06/12/2015	20:15	3.55	8.58
09	AR12483A1	20150612A012	06/12/2015	20:31	3.55	8.57
10	AR12543A1	20150612A013	06/12/2015	20:47	3.55	8.58
11	AR12623A1	20150612A014	06/12/2015	21:03	3.55	8.58
12	AR12683A1	20150612A015	06/12/2015	21:19	3.55	8.58
13	AIBLKB1	20150612A016	06/12/2015	21:35	3.55	8.57
14	AR16603B1	20150612A017	06/12/2015	21:52	3.55	8.58
15	ZZZZZ		06/12/2015	22:08		
16	ABLKS1	20150612A019	06/12/2015	22:24	3.55	8.57
17	ALCSS1	20150612A020	06/12/2015	22:40	3.55	8.57
18	F9M21	20150612A021	06/12/2015	22:56	3.55	8.57
19	F9M22	20150612A022	06/12/2015	23:12	3.55	8.57
20	F9M23	20150612A023	06/12/2015	23:28	3.55	8.58
21	F9M24	20150612A024	06/12/2015	23:44	3.55	8.57
22	F9M25	20150612A025	06/13/2015	00:00	3.55	8.57
23	F9M26	20150612A026	06/13/2015	00:17	3.55	8.57
24	F9M27	20150612A027	06/13/2015	00:33	3.55	8.57
25	F9M27MS	20150612A028	06/13/2015	00:49	3.55	8.57
26	F9M27MSD	20150612A029	06/13/2015	01:05	3.55	8.57
27	F9M28	20150612A030	06/13/2015	01:21	3.55	8.57
28	F9M29	20150612A031	06/13/2015	01:37	3.55	8.57
29	F9M30	20150612A032	06/13/2015	01:54	3.55	8.57
30	F9M31	20150612A033	06/13/2015	02:10	3.55	8.57
31	F9M32	20150612A034	06/13/2015	02:26	3.55	8.57
32	F9M33	20150612A035	06/13/2015	02:42	3.55	8.57

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.: F9M21

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/12/2015 06/12/2015

Instrument ID: GCE20

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.55 DCB: 8.57

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	F9M34	20150612A036	06/13/2015	02:58	3.55	8.57
02	F9M35	20150612A037	06/13/2015	03:14	3.55	8.57
03	F9M37	20150612A038	06/13/2015	03:31	3.55	8.57
04	F9M38	20150612A039	06/13/2015	03:47	3.55	8.57
05	F9M39	20150612A040	06/13/2015	04:03	3.55	8.57
06	F9M40	20150612A041	06/13/2015	04:19	3.55	8.57
07	F9M41	20150612A042	06/13/2015	04:35	3.55	8.57
08	ZZZZZ		06/13/2015	04:51		
09	AIBLKC1	20150612A044	06/13/2015	05:07	3.55	8.57
10	AR16603C1	20150612A045	06/13/2015	05:24	3.55	8.57
11						
12						
13						
14						
15						
16						
17						
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19						
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21						
22						
23						
24						
25						
26						
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.: F9M21

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/12/2015 06/12/2015

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	20150612B004	06/12/2015	18:37	4.17	9.51
02	AR16602A2	20150612B005	06/12/2015	18:53	4.17	9.51
03	AR16603A2	20150612B006	06/12/2015	19:10	4.17	9.51
04	AR16604A2	20150612B007	06/12/2015	19:26	4.17	9.51
05	AR16605A2	20150612B008	06/12/2015	19:42	4.17	9.51
06	AR12213A2	20150612B009	06/12/2015	19:58	4.17	9.51
07	AR12323A2	20150612B010	06/12/2015	20:15	4.17	9.51
08	AR12423A2	20150612B011	06/12/2015	20:31	4.17	9.51
09	AR12483A2	20150612B012	06/12/2015	20:47	4.17	9.51
10	AR12543A2	20150612B013	06/12/2015	21:03	4.17	9.51
11	AR12623A2	20150612B014	06/12/2015	21:19	4.17	9.51
12	AR12683A2	20150612B015	06/12/2015	21:35	4.17	9.51
13	AIBLKB2	20150612B016	06/12/2015	21:52	4.17	9.51
14	AR16603B2	20150612B017	06/12/2015	22:08	4.17	9.51
15	ZZZZZ		06/12/2015	22:24		
16	ABLKS1	20150612B019	06/12/2015	22:40	4.17	9.51
17	ALCSS1	20150612B020	06/12/2015	22:56	4.17	9.51
18	F9M21	20150612B021	06/12/2015	23:12	4.17	9.51
19	F9M22	20150612B022	06/12/2015	23:28	4.17	9.51
20	F9M23	20150612B023	06/12/2015	23:44	4.18	9.51
21	F9M24	20150612B024	06/13/2015	00:00	4.18	9.51
22	F9M25	20150612B025	06/13/2015	00:17	4.18	9.51
23	F9M26	20150612B026	06/13/2015	00:33	4.18	9.51
24	F9M27	20150612B027	06/13/2015	00:49	4.17	9.51
25	F9M27MS	20150612B028	06/13/2015	01:05	4.18	9.51
26	F9M27MSD	20150612B029	06/13/2015	01:21	4.18	9.51
27	F9M28	20150612B030	06/13/2015	01:37	4.18	9.51
28	F9M29	20150612B031	06/13/2015	01:54	4.18	9.51
29	F9M30	20150612B032	06/13/2015	02:10	4.18	9.51
30	F9M31	20150612B033	06/13/2015	02:26	4.18	9.51
31	F9M32	20150612B034	06/13/2015	02:42	4.18	9.51
32	F9M33	20150612B035	06/13/2015	02:58	4.18	9.51

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.: F9M21

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/12/2015 06/12/2015

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	F9M34	20150612B036	06/13/2015	03:14	4.18	9.51
02	F9M35	20150612B037	06/13/2015	03:31	4.18	9.51
03	F9M37	20150612B038	06/13/2015	03:47	4.18	9.51
04	F9M38	20150612B039	06/13/2015	04:03	4.18	9.51
05	F9M39	20150612B040	06/13/2015	04:19	4.17	9.51
06	F9M40	20150612B041	06/13/2015	04:35	4.18	9.51
07	F9M41	20150612B042	06/13/2015	04:51	4.18	9.51
08	ZZZZZ		06/13/2015	05:07		
09	AIBLKC2	20150612B044	06/13/2015	05:24	4.18	9.51
10	AR16603C2	20150612B045	06/13/2015	05:40	4.17	9.51
11						
12						
13						
14						
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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.: F9M21

Lab Sample ID: 450196 Date(s) Analyzed: 06/12/2015 06/12/2015

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	33.		
	2	4.19	4.12	4.26	34.		
COLUMN 1	3	4.61	4.54	4.68	32.		
	4						
	5					33.	
	1	4.61	4.54	4.68	29.		
	2	5.38	5.31	5.45	31.		
COLUMN 2	3	5.50	5.43	5.57	29.		
	4						
	5					30.	12.3
AR1260	1	6.19	6.12	6.26	36.		
	2	6.56	6.48	6.62	33.		
COLUMN 1	3	6.80	6.73	6.87	36.		
	4						
	5					35.	
	1	7.04	6.97	7.11	36.		
	2	7.22	7.14	7.28	36.		
COLUMN 2	3	7.54	7.47	7.61	35.		
	4						
	5					36.	1.2
	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.

F9M27MS

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542008 Date(s) Analyzed: 06/13/2015 06/13/2015

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	150		
	2	4.19	4.12	4.26	160		
COLUMN 1	3	4.61	4.54	4.68	160		
	4						
	5					150	
	1	4.61	4.54	4.68	150		
	2	5.38	5.31	5.45	180		
COLUMN 2	3	5.50	5.43	5.57	170		
	4						
	5					170	8.3
AR1260	1	6.19	6.12	6.26	110		
	2	6.55	6.48	6.62	140		
COLUMN 1	3	6.79	6.73	6.87	150		
	4						
	5					130	
	1	7.04	6.97	7.11	160		
	2	7.22	7.14	7.28	180		
COLUMN 2	3	7.54	7.47	7.61	150		
	4						
	5					160	22.7
	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.

F9M27MSD

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Lab Sample ID: 1515542009 Date(s) Analyzed: 06/13/2015 06/13/2015

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	150		
	2	4.19	4.12	4.26	150		
COLUMN 1	3	4.61	4.54	4.68	160		
	4						
	5					150	
	1	4.61	4.54	4.68	150		
	2	5.38	5.31	5.45	190		
COLUMN 2	3	5.50	5.43	5.57	180		
	4						
	5					170	14.2
AR1260	1	6.19	6.12	6.26	110		
	2	6.55	6.48	6.62	140		
COLUMN 1	3	6.80	6.73	6.87	150		
	4						
	5					130	
	1	7.04	6.97	7.11	180		
	2	7.22	7.14	7.28	190		
COLUMN 2	3	7.54	7.47	7.61	160		
	4						
	5					170	29.1
	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.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:12:13
Operator	: borges	Sample Name	: AR16601A1
Sample Number	: 04	Study	: 26394
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/12/2015 18:21:39	Cycle	: 3

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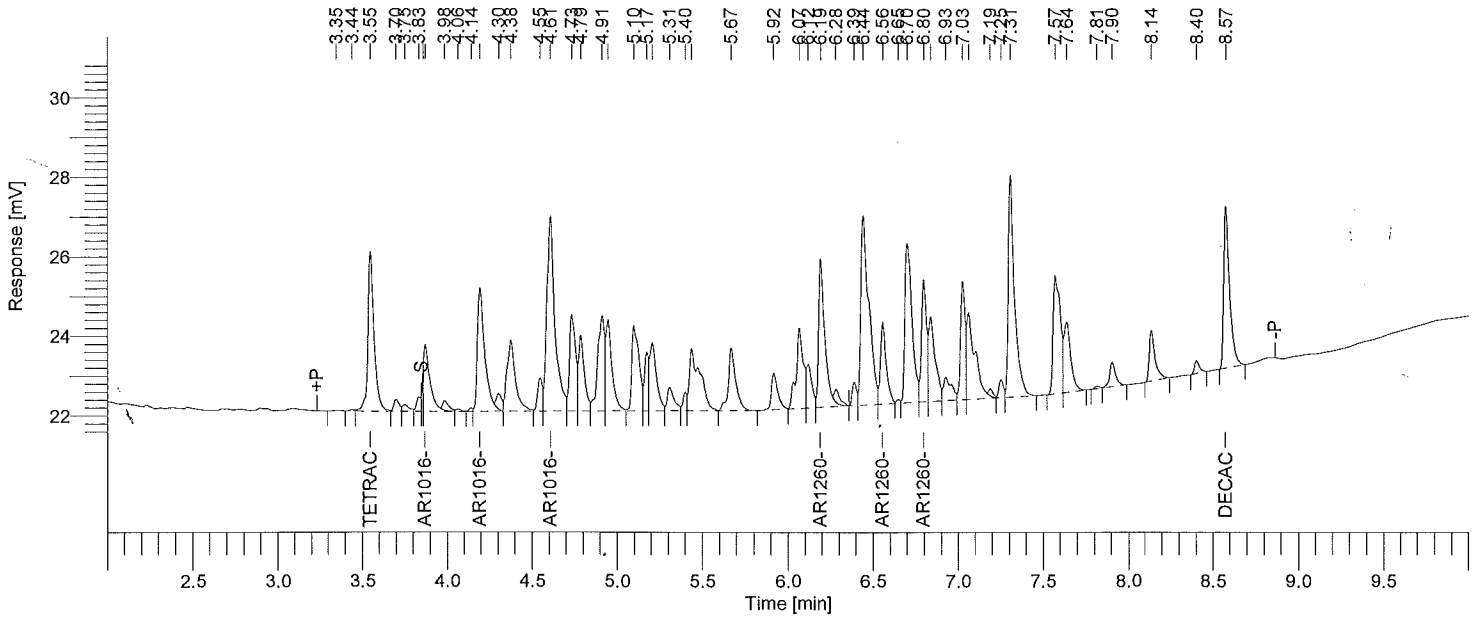

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	9940	0.0051014
3.87	AR1016-1	4260	0.1099883
4.19	AR1016-2	9409	0.1175209
4.61	AR1016-3	16159	0.1074786
6.19	AR1260-1	9681	0.1108386
6.56	AR1260-2	4847	0.0952574
6.80	AR1260-3	6153	0.1094107
8.57	Decachlorobiphenyl	9783	0.0102378

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:12:14
Operator	: borges	Sample Name	: AR16602A1
Sample Number	: 05	Study	: 26395
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	: 06/12/2015 18:37:51	Cycle	: 4

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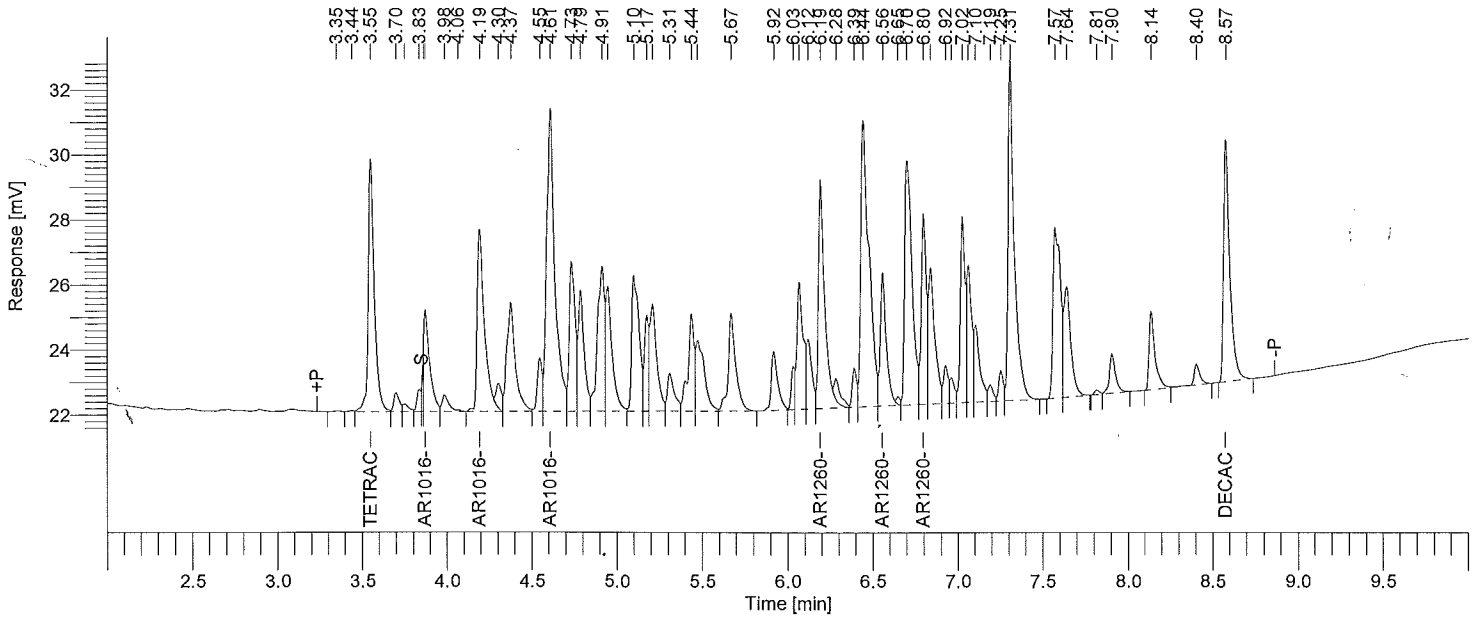

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	19271	0.0098904
3.87	AR1016-1	7516	0.1940341
4.19	AR1016-2	17251	0.2154704
4.61	AR1016-3	31157	0.2072350
6.19	AR1260-1	18488	0.2116680
6.56	AR1260-2	10165	0.1997629
6.80	AR1260-3	11656	0.2072527
8.57	Decachlorobiphenyl	18568	0.0194323

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:12:16
Operator	: borges	Sample Name	: AR16603A1
Sample Number	: 06	Study	: 26396
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
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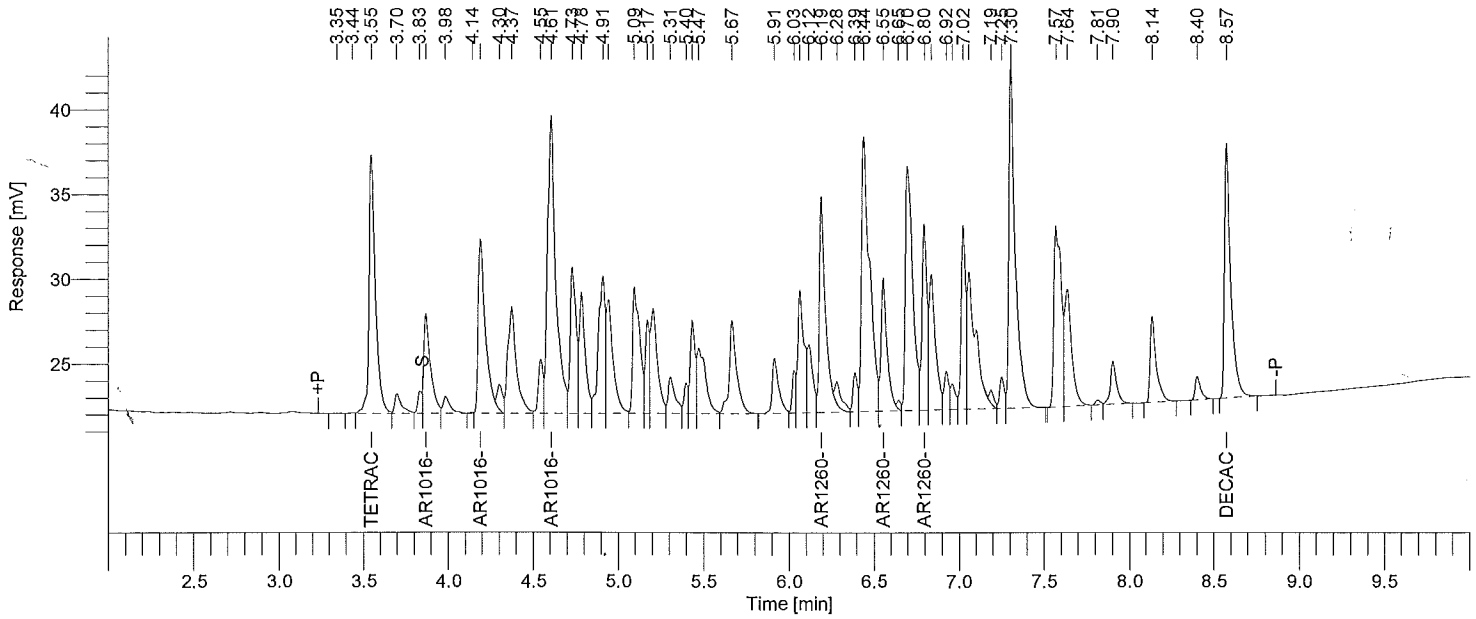

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	39581	0.0203139
3.87	AR1016-1	16090	0.4153845
4.19	AR1016-2	31578	0.3944224
4.61	AR1016-3	58940	0.3920229
6.19	AR1260-1	33511	0.3836588
6.55	AR1260-2	19734	0.3878188
6.80	AR1260-3	21746	0.3866692
8.57	Decachlorobiphenyl	38023	0.0397924

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:12:24
Operator	: borges	Sample Name	: AR16604A1
Sample Number	: 07	Study	: 26397
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	: 06/12/2015 19:10:11	Cycle	: 6

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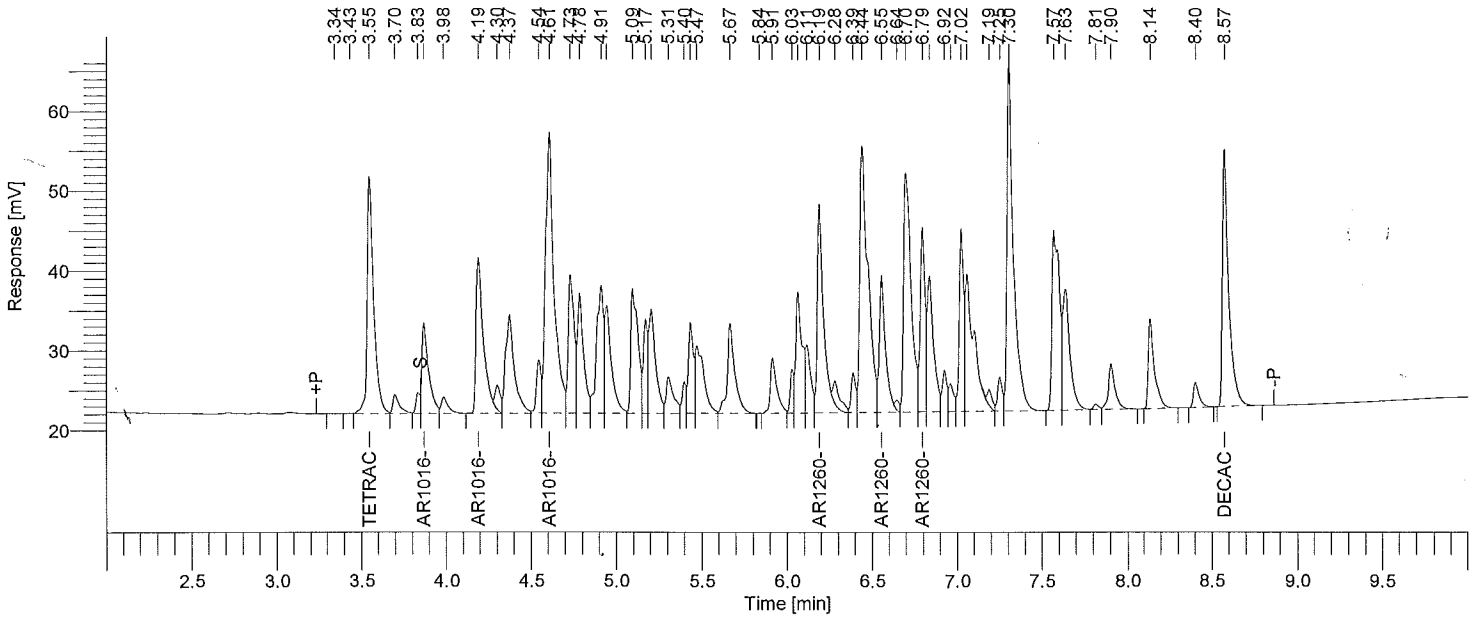

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	79978	0.0410467
3.87	AR1016-1	31200	0.8054678
4.19	AR1016-2	60351	0.7538197
4.61	AR1016-3	121251	0.8064712
6.19	AR1260-1	69268	0.7930346
6.55	AR1260-2	44085	0.8663804
6.79	AR1260-3	44821	0.7969813
8.57	Decachlorobiphenyl	82314	0.0861438

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:12:25
Operator	: borges	Sample Name	: AR16605A1
Sample Number	: 08	Study	: 26398
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	: 06/12/2015 19:26:19	Cycle	: 7

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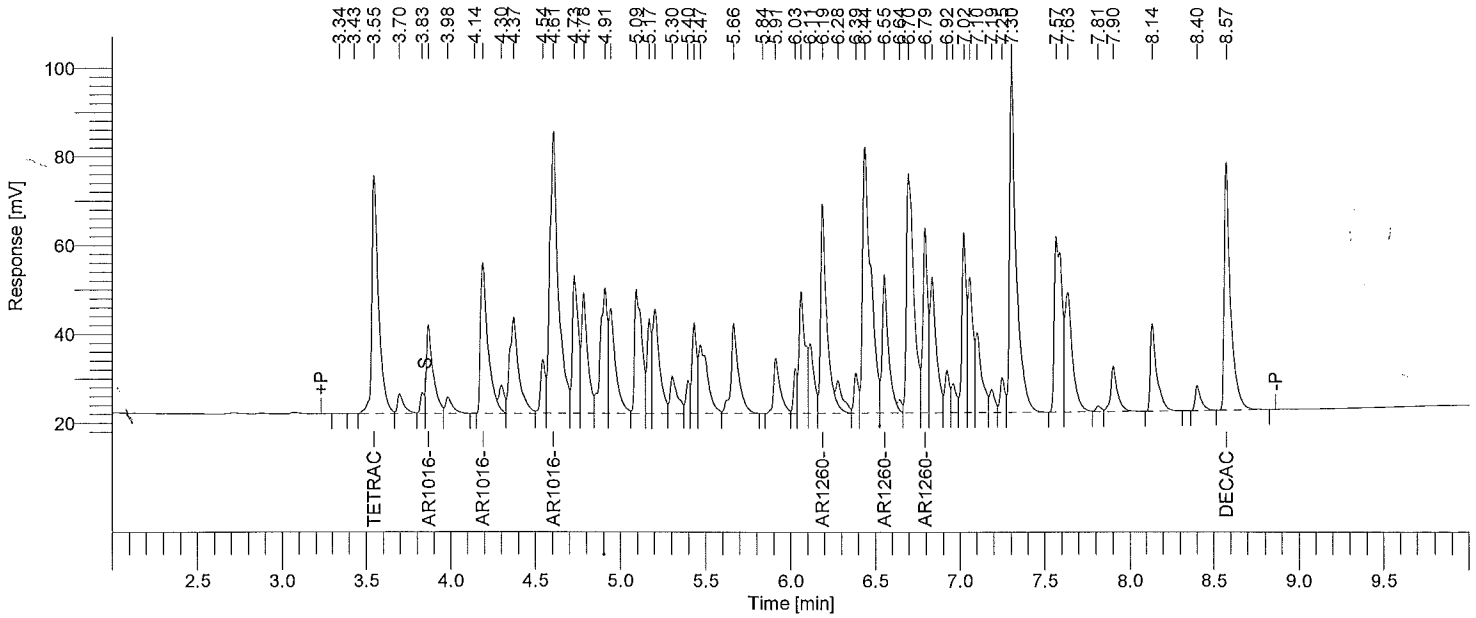

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	147900	0.0759058
3.87	AR1016-1	54828	1.4154412
4.19	AR1016-2	104925	1.3105733
4.61	AR1016-3	216716	1.4414284
6.19	AR1260-1	123378	1.4125347
6.55	AR1260-2	81096	1.5937421
6.79	AR1260-3	81589	1.4507674
8.57	Decachlorobiphenyl	142643	0.1492793

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:12:27
Operator	: borges	Sample Name	: AR12213A1
Sample Number	: 09	Study	: 26401
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	: 06/12/2015 19:42:29	Cycle	: 8

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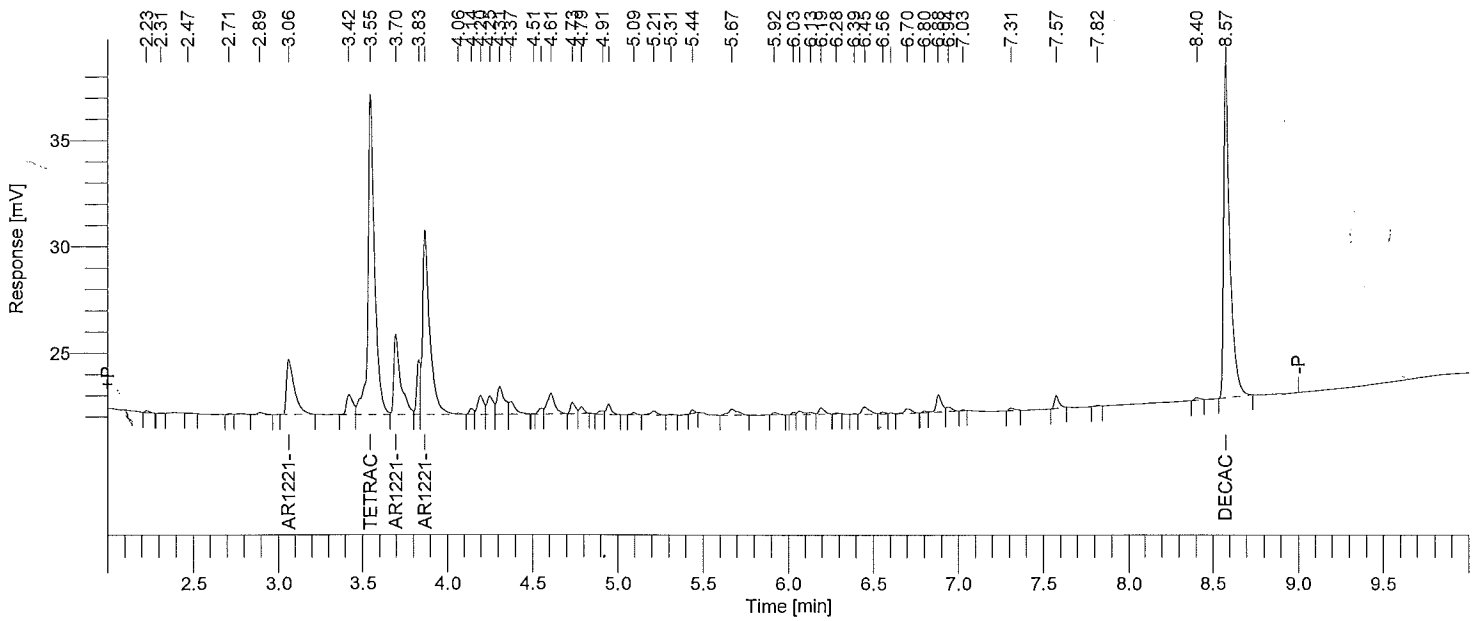

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.06	AR1221-1	8341	0.4000000
3.55	Tetrachloro-m-xylene	40799	0.0200000
3.70	AR1221-2	10531	0.4000000
3.87	AR1221-3	25056	0.4000000
8.57	Decachlorobiphenyl	39983	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:12:28
Operator	: borges	Sample Name	: AR12323A1
Sample Number	: 10	Study	: 26406
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	: 06/12/2015 19:58:51	Cycle	: 9

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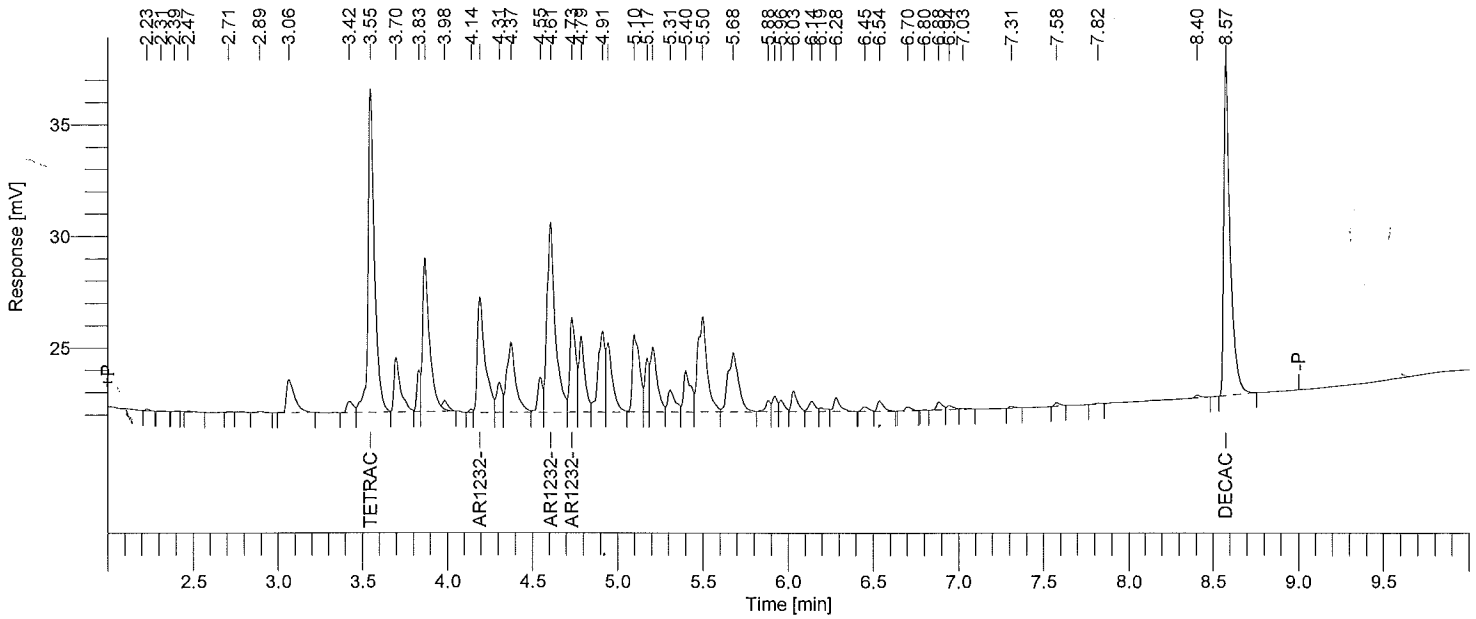

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	38321	0.0200000
4.19	AR1232-1	16235	0.4000000
4.61	AR1232-2	28174	0.4000000
4.73	AR1232-3	10128	0.4000000
8.57	Decachlorobiphenyl	38556	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:12:30
Operator	: borges	Sample Name	: AR12423A1
Sample Number	: 11	Study	: 26411
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/12/2015 20:15:03	Cycle	: 10

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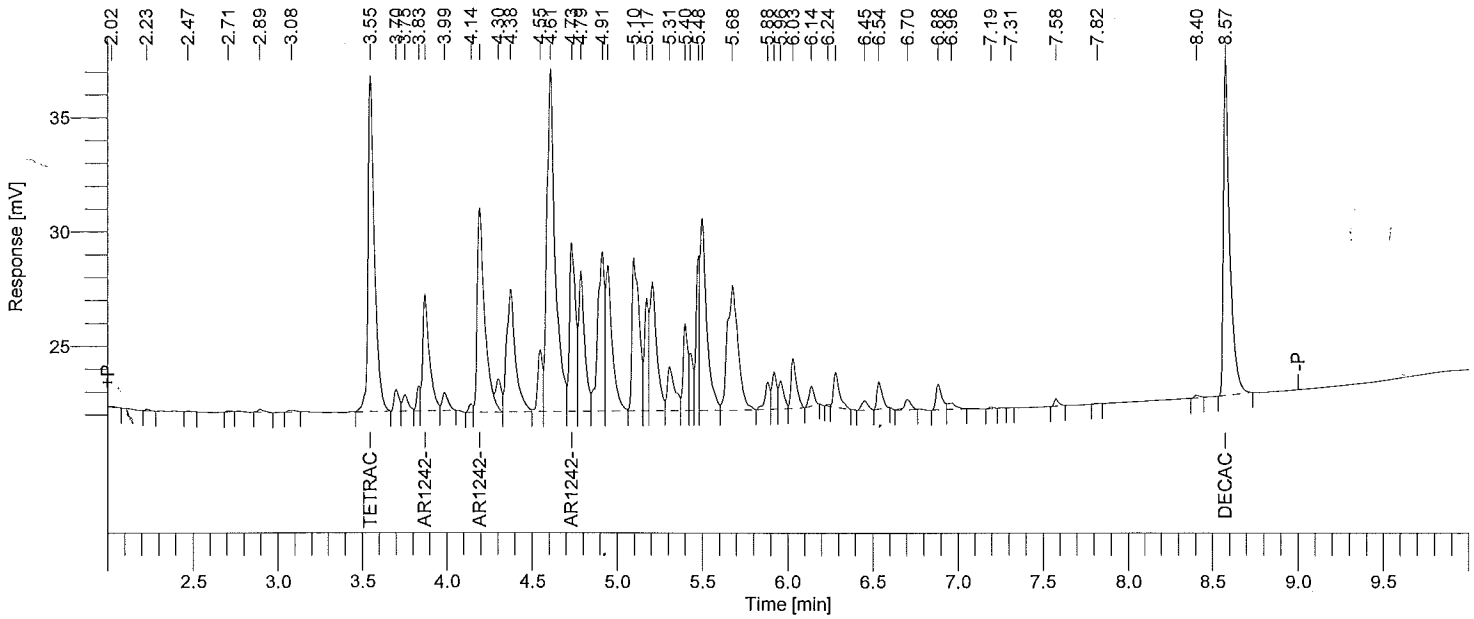

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	37747	0.0200000
3.87	AR1242-1	14055	0.4000000
4.19	AR1242-2	27618	0.4000000
4.73	AR1242-3	17913	0.4000000
8.57	Decachlorobiphenyl	37332	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:12:31
Operator	: borges	Sample Name	: AR12483A1
Sample Number	: 12	Study	: 26416
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		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/12/2015 20:31:07	Dilution Factor	: 1.00
		Cycle	: 11

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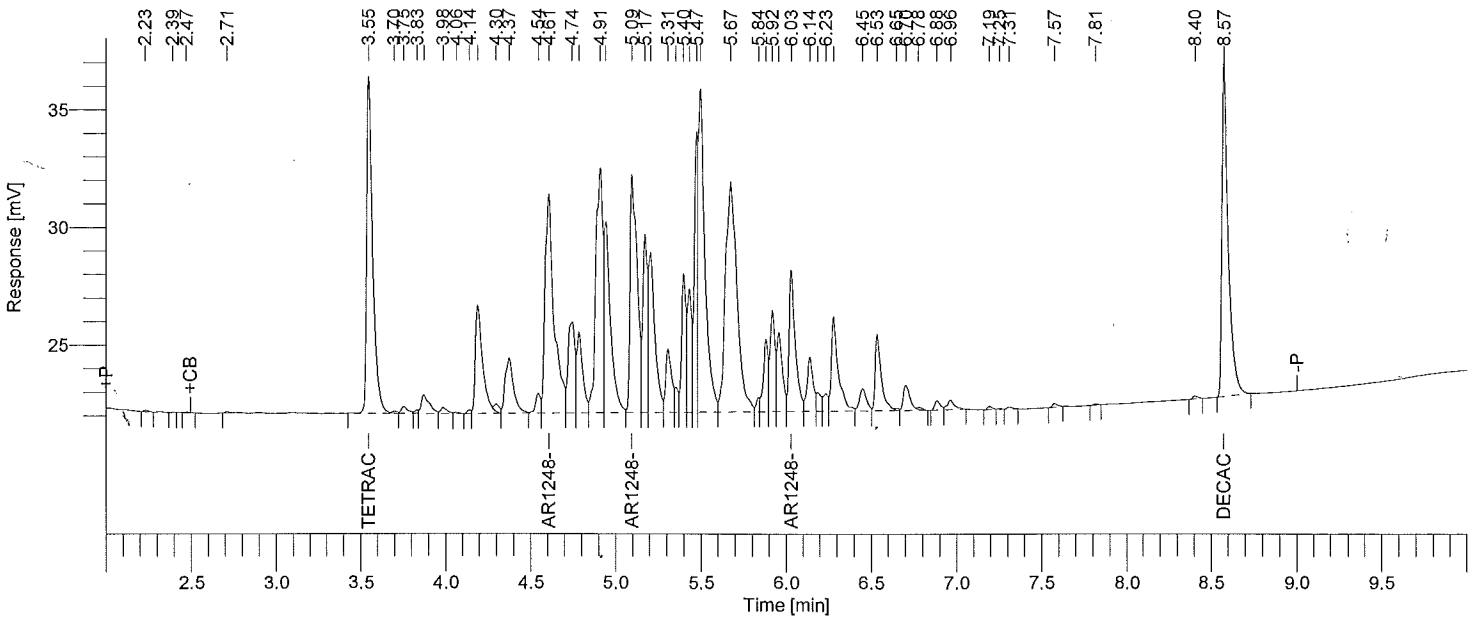

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	35316	0.0200000
4.61	AR1248-1	33696	0.4000000
5.09	AR1248-2	28978	0.4000000
6.03	AR1248-3	15018	0.4000000
8.57	Decachlorobiphenyl	36220	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:12:33
Operator	: borges	Sample Name	: AR12543A1
Sample Number	: 13	Study	: 26421
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		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/12/2015 20:47:21	Dilution Factor	: 1.00
		Cycle	: 12

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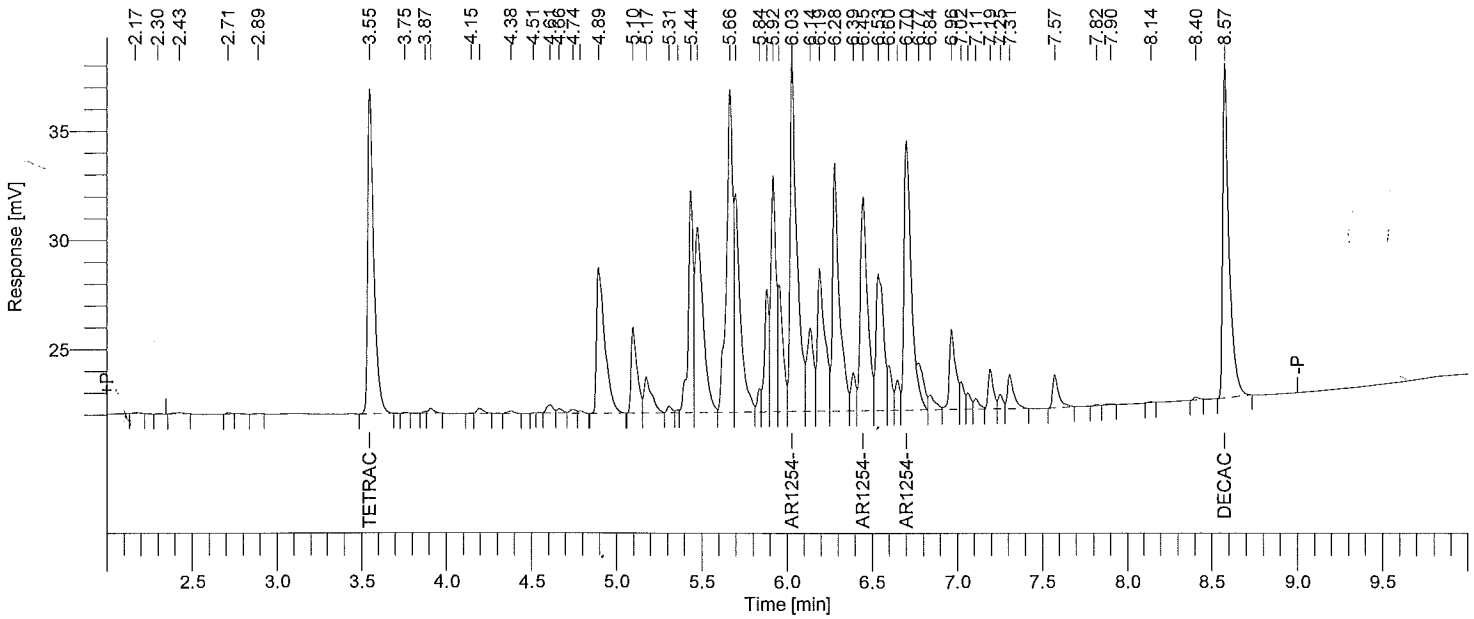

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	37138	0.0200000
6.03	AR1254-1	43289	0.4000000
6.45	AR1254-2	27995	0.4000000
6.70	AR1254-3	37081	0.4000000
8.57	Decachlorobiphenyl	38957	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:12:34
Operator	: borges	Sample Name	: AR12623A1
Sample Number	: 14	Study	: 26426
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	: 06/12/2015 21:03:27	Cycle	: 13

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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_standard_a.rpt
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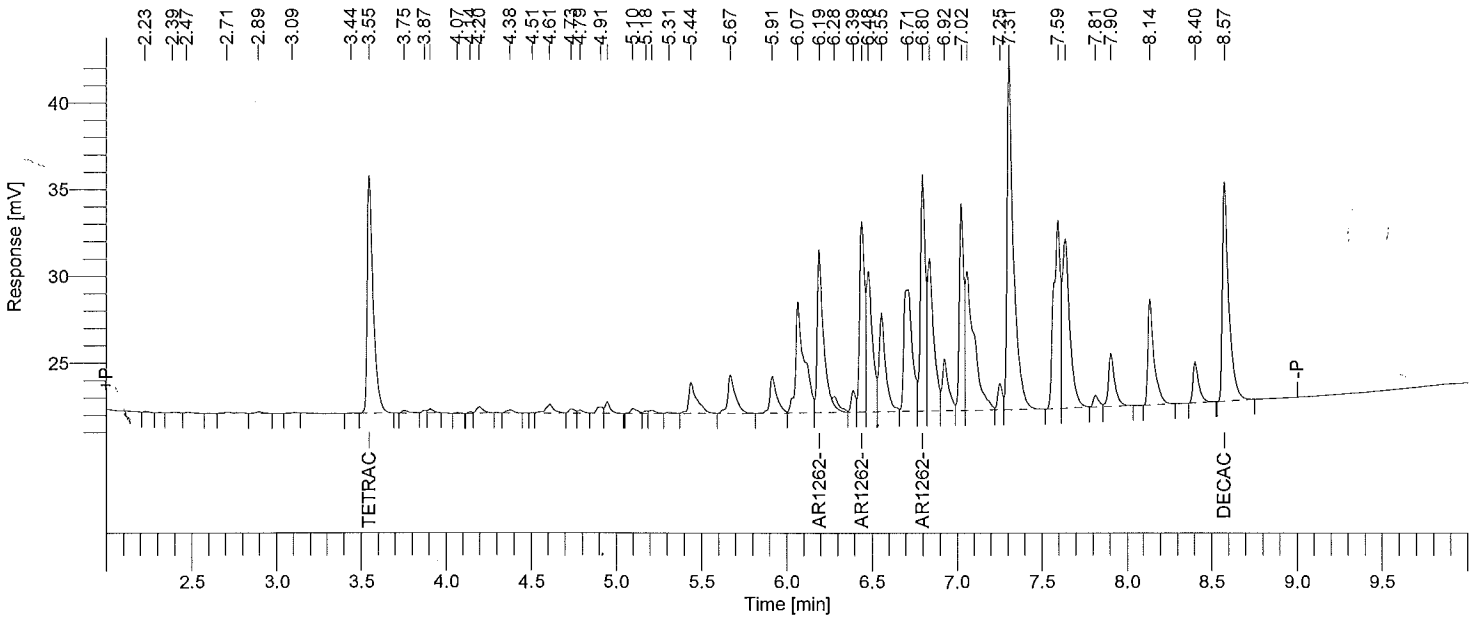

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	32978	0.0200000
6.19	AR1262-1	24974	0.4000000
6.44	AR1262-2	21691	0.4000000
6.80	AR1262-3	26668	0.4000000
8.57	Decachlorobiphenyl	32418	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:12:36
Operator	: borges	Sample Name	: AR12683A1
Sample Number	: 15	Study	: 26431
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	: 06/12/2015 21:19:33	Cycle	: 14

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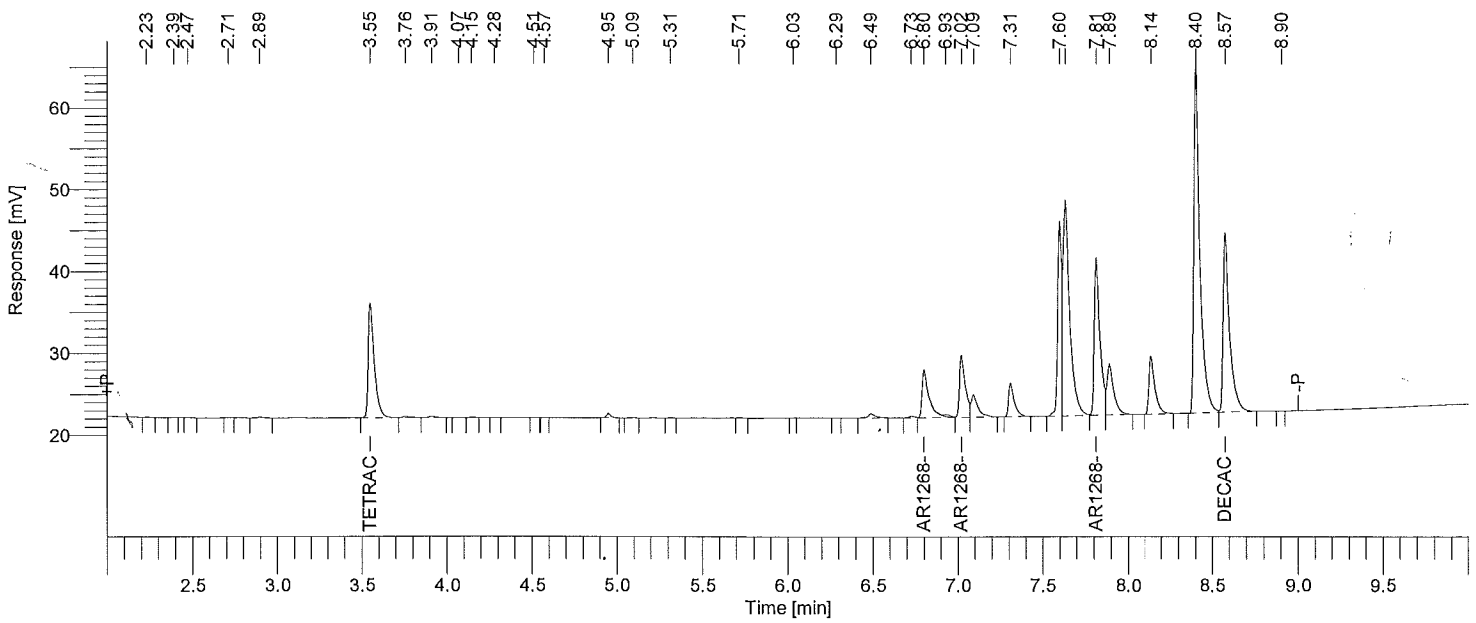

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	34890	0.0200000
6.80	AR1268-1	16276	0.4000000
7.02	AR1268-2	18272	0.4000000
7.81	AR1268-3	43980	0.4000000
8.57	Decachlorobiphenyl	56665	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:12:40
Operator	: borges	Sample Name	: AR16603B1
Sample Number	: 17	Study	: 26396
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/12/2015 21:52:03	Cycle	: 16

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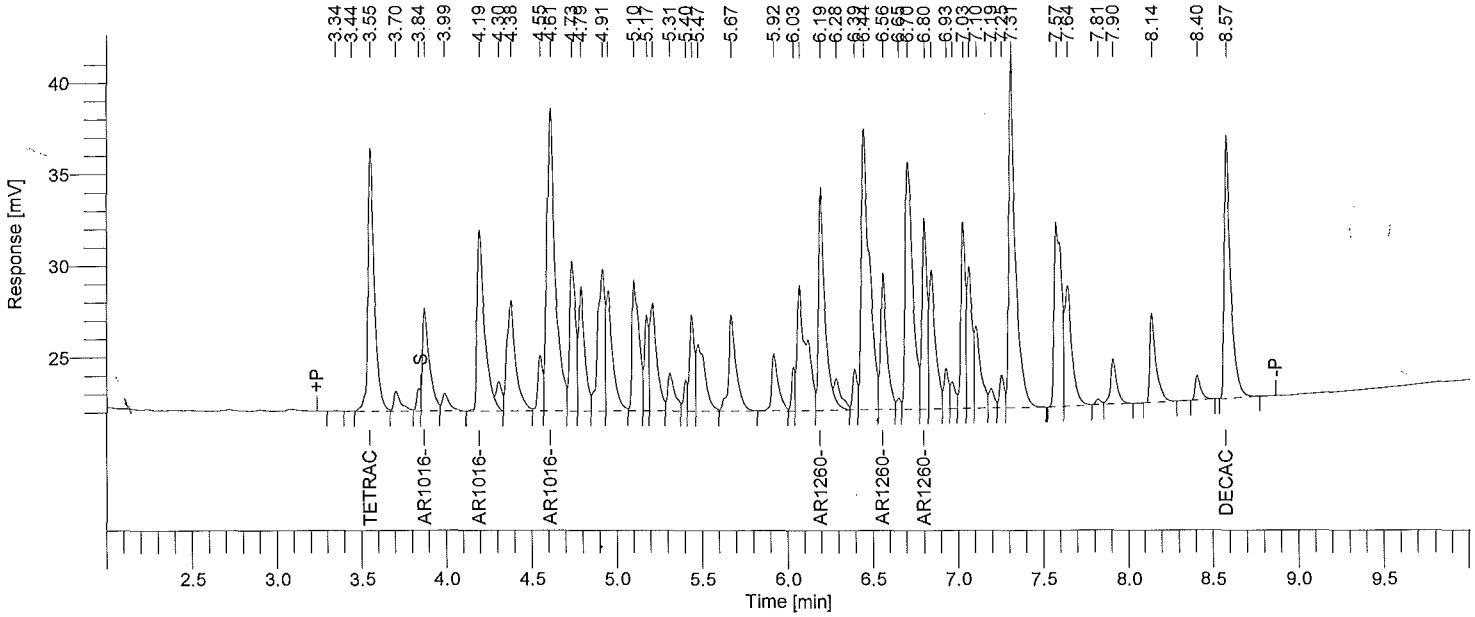

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM ARO CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
3.55	Tetrachloro-m-xylene	37909	0.0194558	0.0194558	0.0200000	97.3
3.87	AR1016-1	15598	0.4026671	0.4026671	0.4000000	100.7
4.19	AR1016-2	30496	0.3809129	0.3809129	0.4000000	95.2
4.61	AR1016-3	56288	0.3743866	0.3743866	0.4000000	93.6
6.19	AR1260-1	32241	0.3691270	0.3691270	0.4000000	92.3
6.56	AR1260-2	18698	0.3674596	0.3674596	0.4000000	91.9
6.80	AR1260-3	20666	0.3674724	0.3674724	0.4000000	91.9
8.57	Decachlorobiphenyl	36985	0.0387060	0.0387060	0.0400000	96.8

All analytes <= to +/-15% opening CCV, <=+/-50% closing CCV.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:12:44
Operator	: borges	Sample Name	: AR16603C1
Sample Number	: 45	Study	: 26396
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/13/2015 05:24:01	Cycle	: 44

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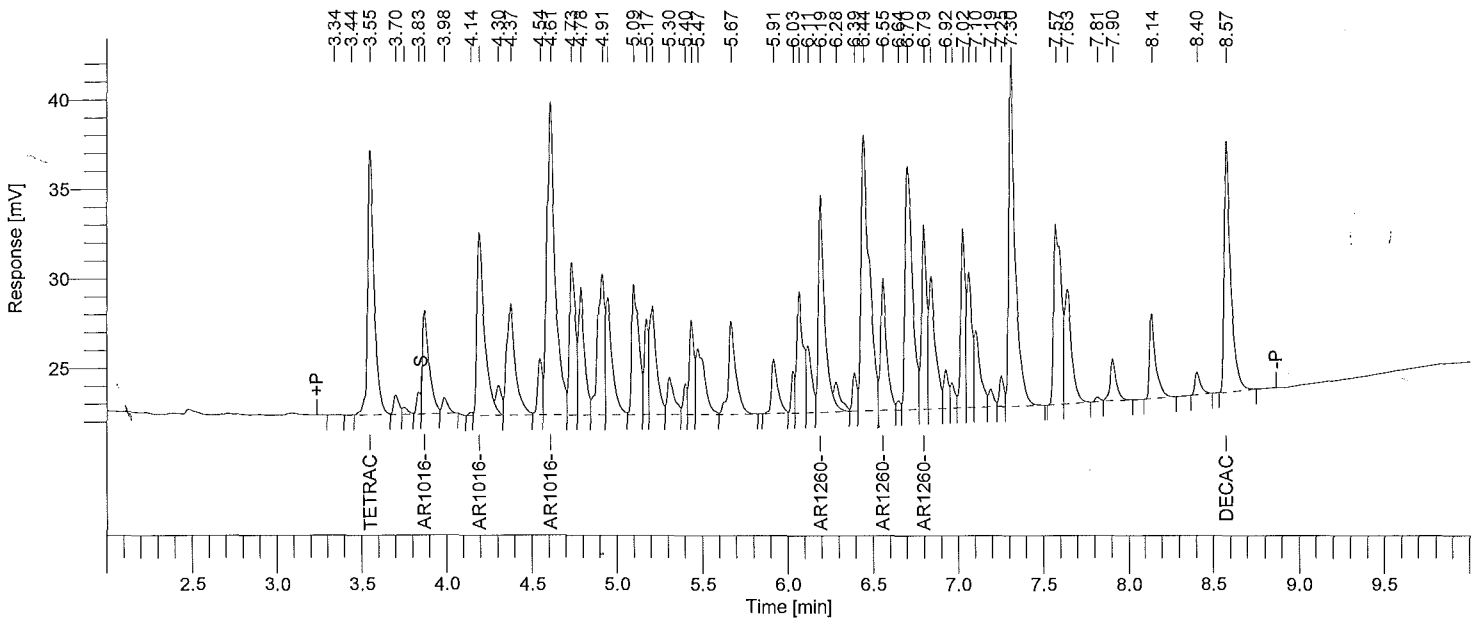

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM ARO CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
3.55	Tetrachloro-m-xylene	38961	0.0199957	0.0199957	0.0200000	100.0
3.87	AR1016-1	15457	0.3990352	0.3990352	0.4000000	99.8
4.19	AR1016-2	31339	0.3914446	0.3914446	0.4000000	97.9
4.61	AR1016-3	58992	0.3923667	0.3923667	0.4000000	98.1
6.19	AR1260-1	31622	0.3620376	0.3620376	0.4000000	90.5
6.55	AR1260-2	18098	0.3556676	0.3556676	0.4000000	88.9
6.79	AR1260-3	20299	0.3609506	0.3609506	0.4000000	90.2
8.57	Decachlorobiphenyl	36408	0.0381016	0.0381016	0.0400000	95.3

All analytes <= to +/-15% opening CCV, <=+/-50% closing CCV.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:12:45
Operator	: borges	Sample Name	: AR16601A2
Sample Number	: 04	Study	: 26394
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	: 06/12/2015 18:37:51	Cycle	: 4

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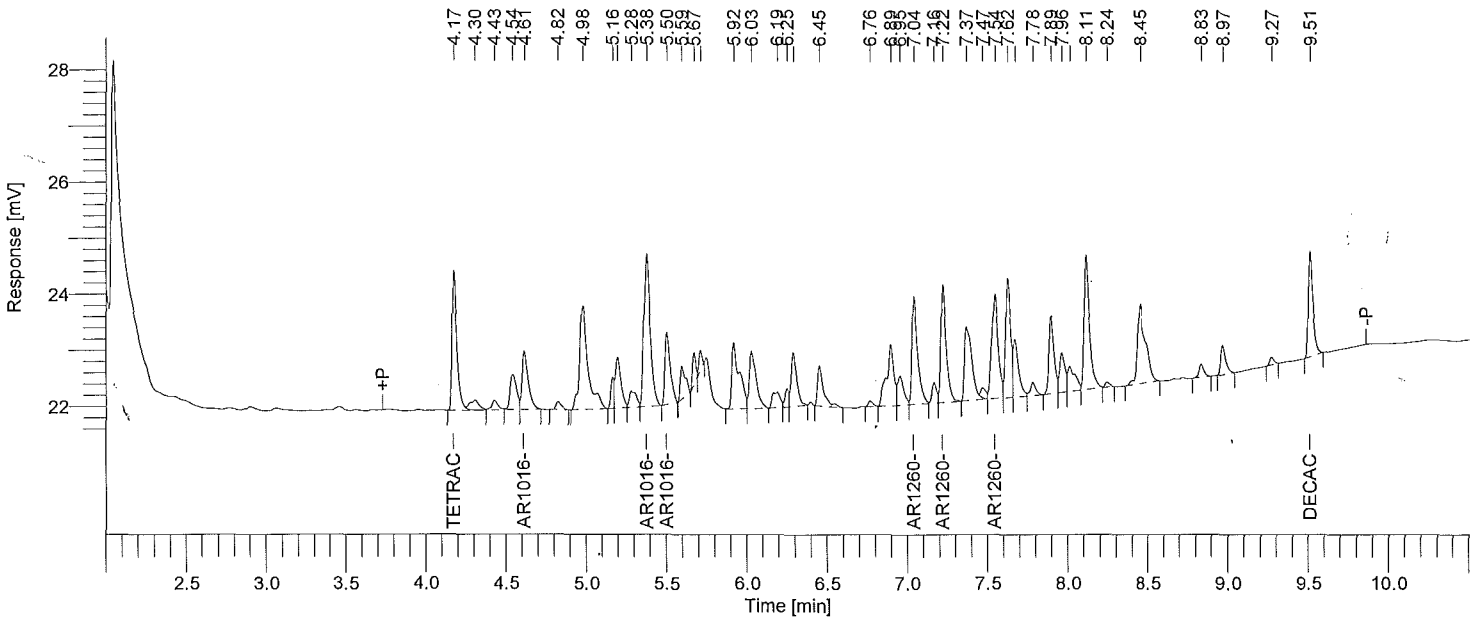

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	5217	0.0048938
4.61	AR1016-1	2737	0.1199149
5.38	AR1016-2	7520	0.1044146
5.50	AR1016-3	3005	0.0963593
7.04	AR1260-1	4767	0.1141883
7.22	AR1260-2	4938	0.1137344
7.54	AR1260-3	5175	0.1598830
9.51	Decachlorobiphenyl	3797	0.0105647

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:12:47
Operator	: borges	Sample Name	: AR16602A2
Sample Number	: 05	Study	: 26395
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		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/12/2015 18:53:59	Dilution Factor	: 1.00
		Cycle	: 5

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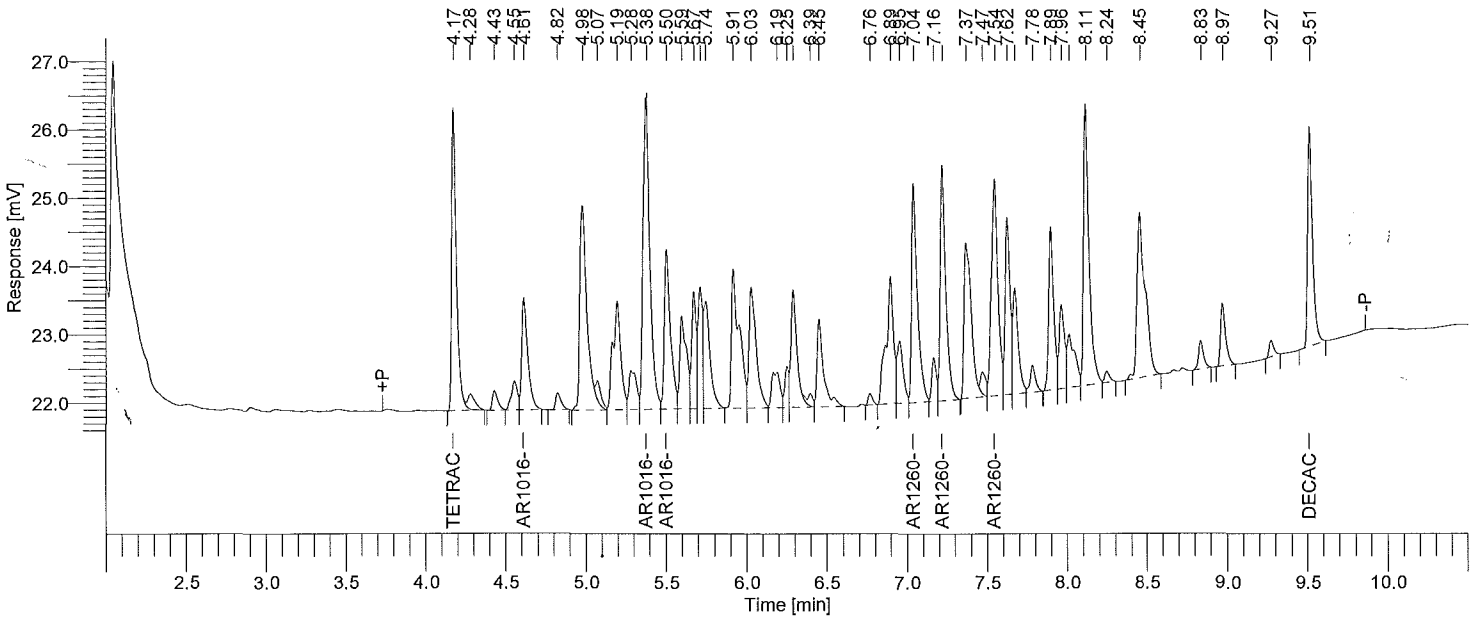

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	9301	0.0087255
4.61	AR1016-1	4228	0.1852478
5.38	AR1016-2	13446	0.1866977
5.50	AR1016-3	6120	0.1962289
7.04	AR1260-1	7979	0.1911131
7.22	AR1260-2	8336	0.1919735
7.54	AR1260-3	9039	0.2522844
9.51	Decachlorobiphenyl	6731	0.0187273

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:12:48
Operator	: borges	Sample Name	: AR16603A2
Sample Number	: 06	Study	: 26396
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	: 06/12/2015 19:10:11	Cycle	: 6

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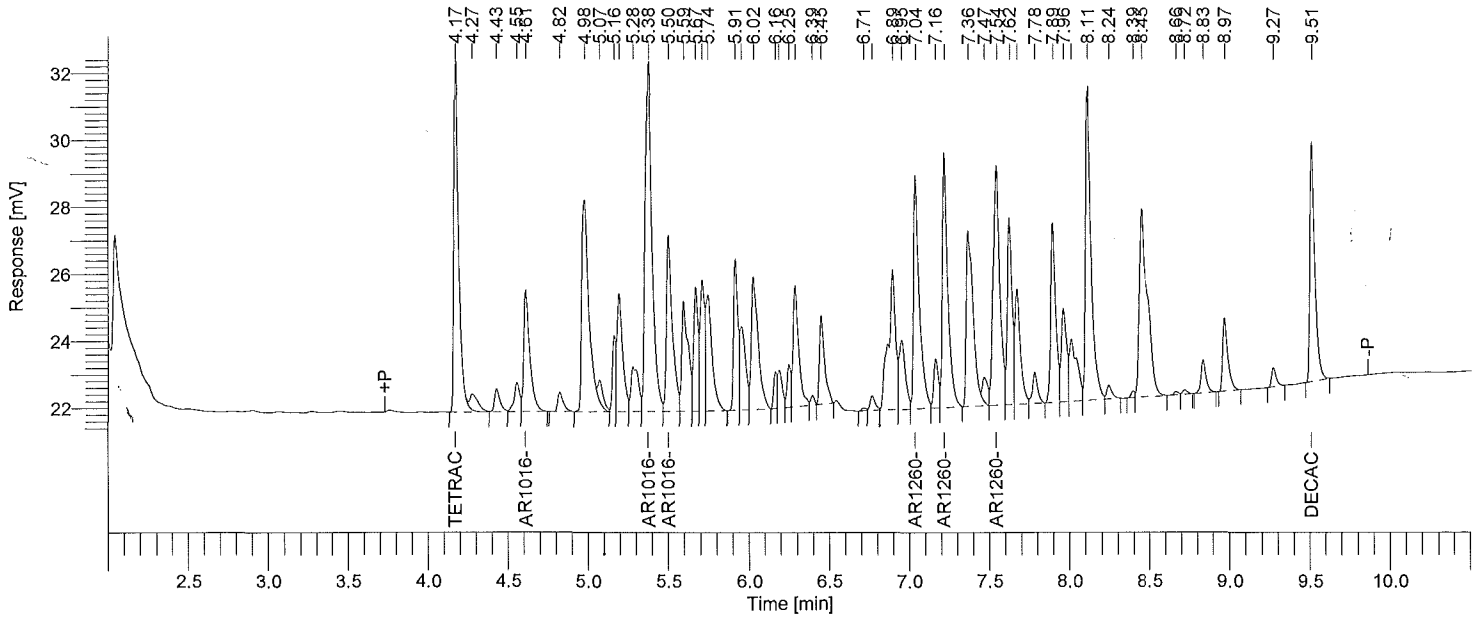

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	22537	0.0211423
4.61	AR1016-1	9358	0.4099804
5.38	AR1016-2	30386	0.4219272
5.50	AR1016-3	13368	0.4286071
7.04	AR1260-1	17350	0.4155540
7.21	AR1260-2	17961	0.4136489
7.54	AR1260-3	20429	0.5075328
9.51	Decachlorobiphenyl	15339	0.0426799

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:12:50
Operator	: borges	Sample Name	: AR16604A2
Sample Number	: 07	Study	: 26397
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		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/12/2015 19:26:19	Dilution Factor	: 1.00
		Cycle	: 7

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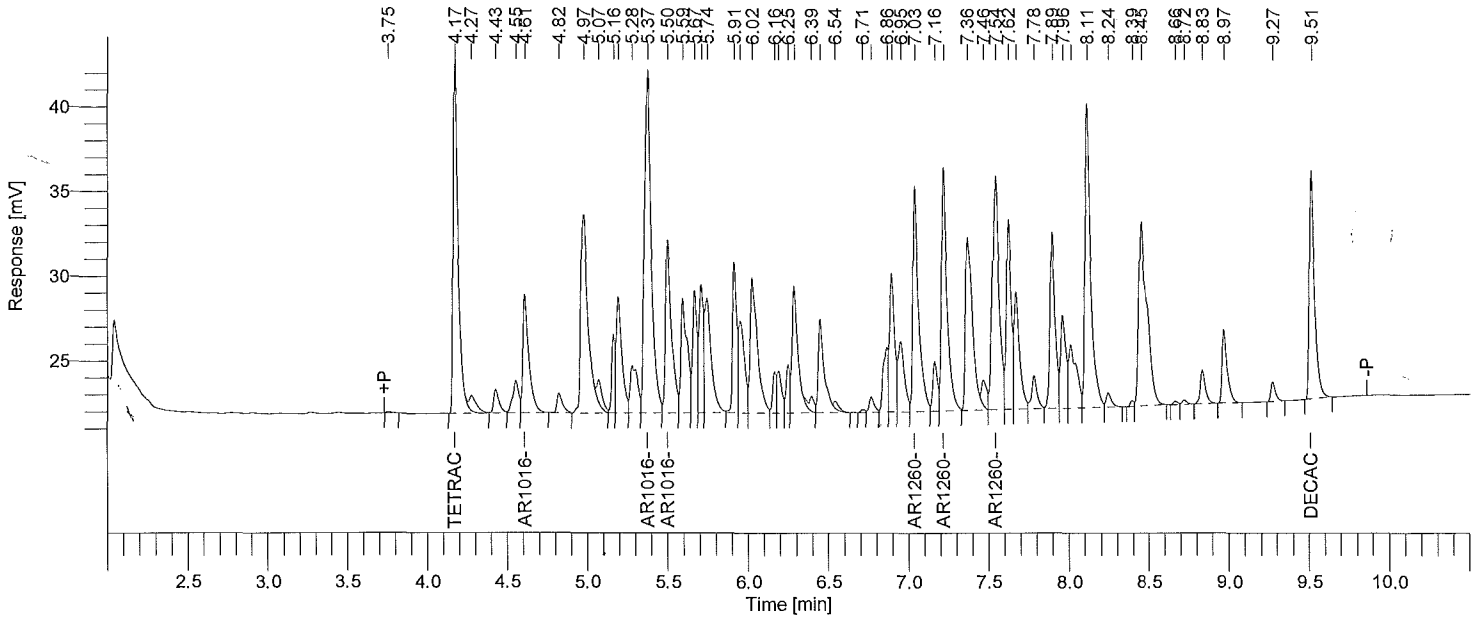

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	46333	0.0434645
4.61	AR1016-1	18136	0.7945358
5.37	AR1016-2	60071	0.8341151
5.50	AR1016-3	26305	0.8434136
7.03	AR1260-1	33216	0.7955961
7.21	AR1260-2	34711	0.7994067
7.54	AR1260-3	39900	0.8995648
9.51	Decachlorobiphenyl	29953	0.0833433

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:12:51
Operator	: borges	Sample Name	: AR16605A2
Sample Number	: 08	Study	: 26398
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	: 06/12/2015 19:42:29	Cycle	: 8

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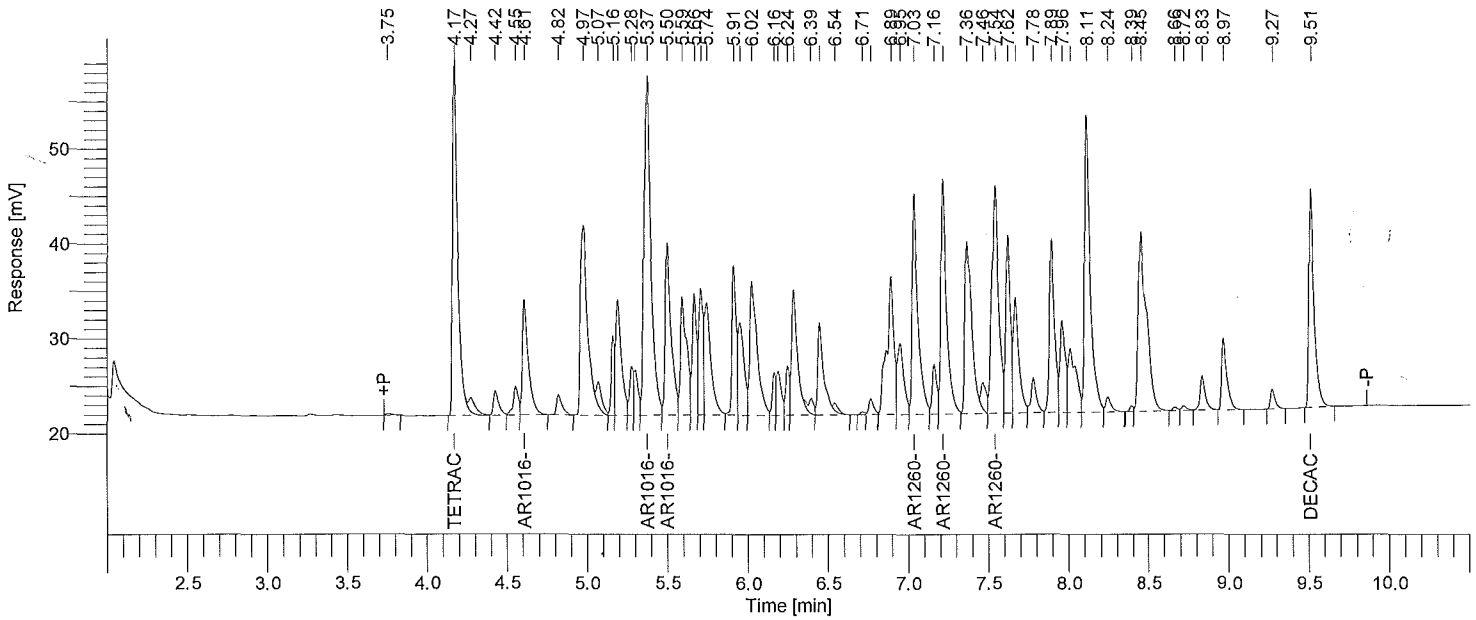

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	85703	0.0803980
4.61	AR1016-1	31281	1.3703867
5.37	AR1016-2	106576	1.4798460
5.50	AR1016-3	46383	1.4871649
7.03	AR1260-1	58061	1.3906735
7.21	AR1260-2	60401	1.3910526
7.54	AR1260-3	70662	1.4596534
9.51	Decachlorobiphenyl	51660	0.1437411

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:12:52
Operator	: borges	Sample Name	: AR12213A2
Sample Number	: 09	Study	: 26401
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	: 06/12/2015 19:58:51	Cycle	: 9

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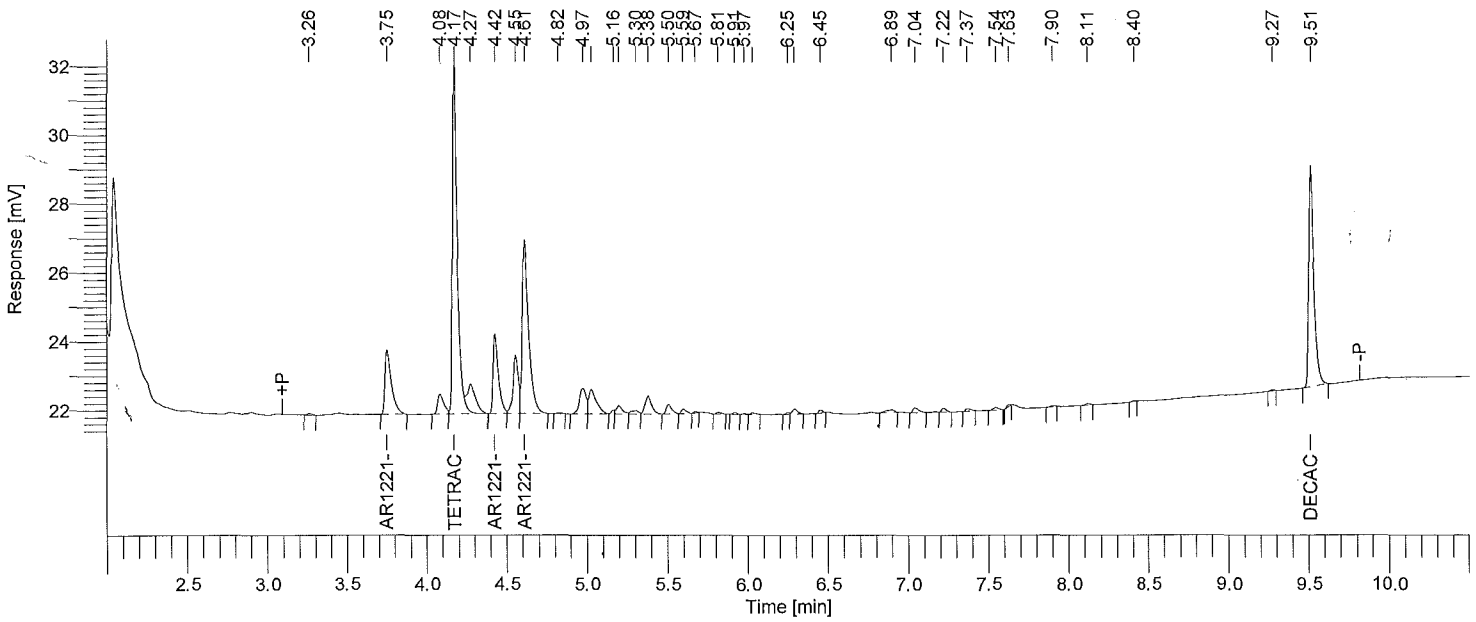

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.75	AR1221-1	5280	0.4000000
4.17	Tetrachloro-m-xylene	21842	0.0200000
4.42	AR1221-2	5289	0.4000000
4.61	AR1221-3	13825	0.4000000
9.51	Decachlorobiphenyl	13923	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:12:54
Operator	: borges	Sample Name	: AR12323A2
Sample Number	: 10	Study	: 26406
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	: 06/12/2015 20:15:03	Cycle	: 10

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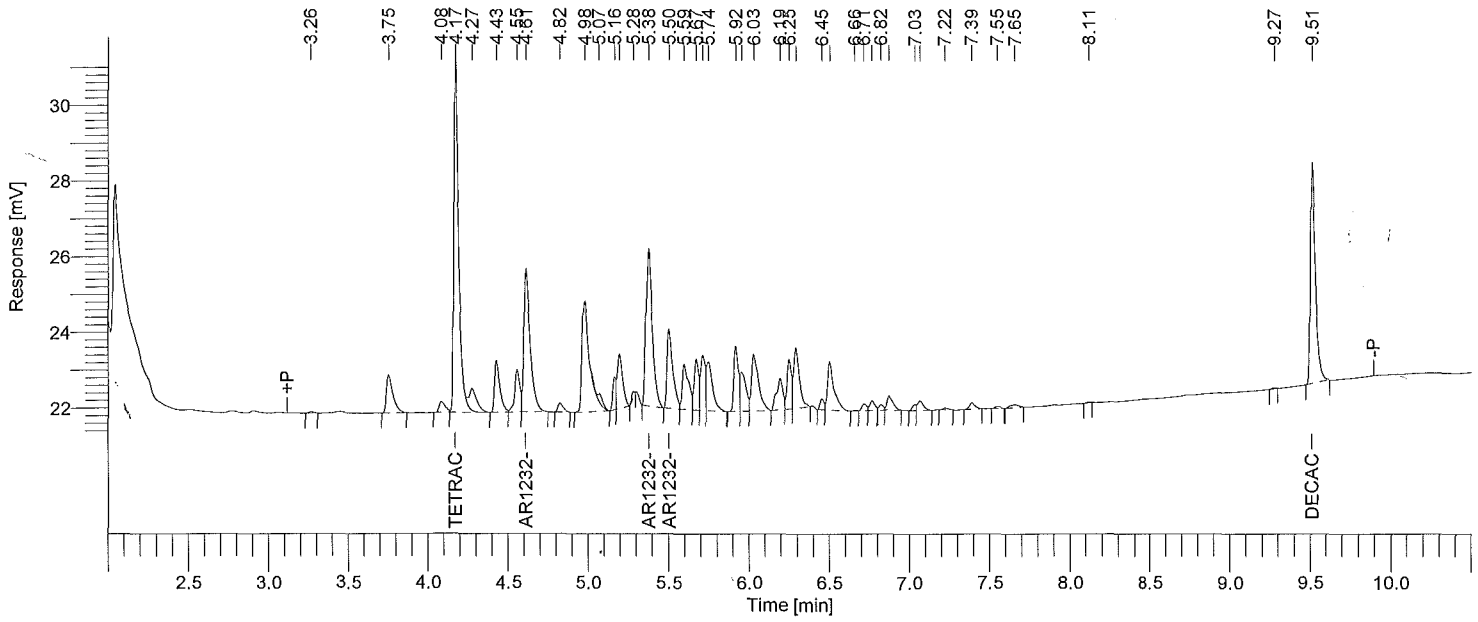

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	19959	0.0200000
4.61	AR1232-1	10239	0.4000000
5.38	AR1232-2	11454	0.4000000
5.50	AR1232-3	5184	0.4000000
9.51	Decachlorobiphenyl	12637	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:12:55
Operator	: borges	Sample Name	: AR12423A2
Sample Number	: 11	Study	: 26411
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	: 06/12/2015 20:31:07	Cycle	: 11

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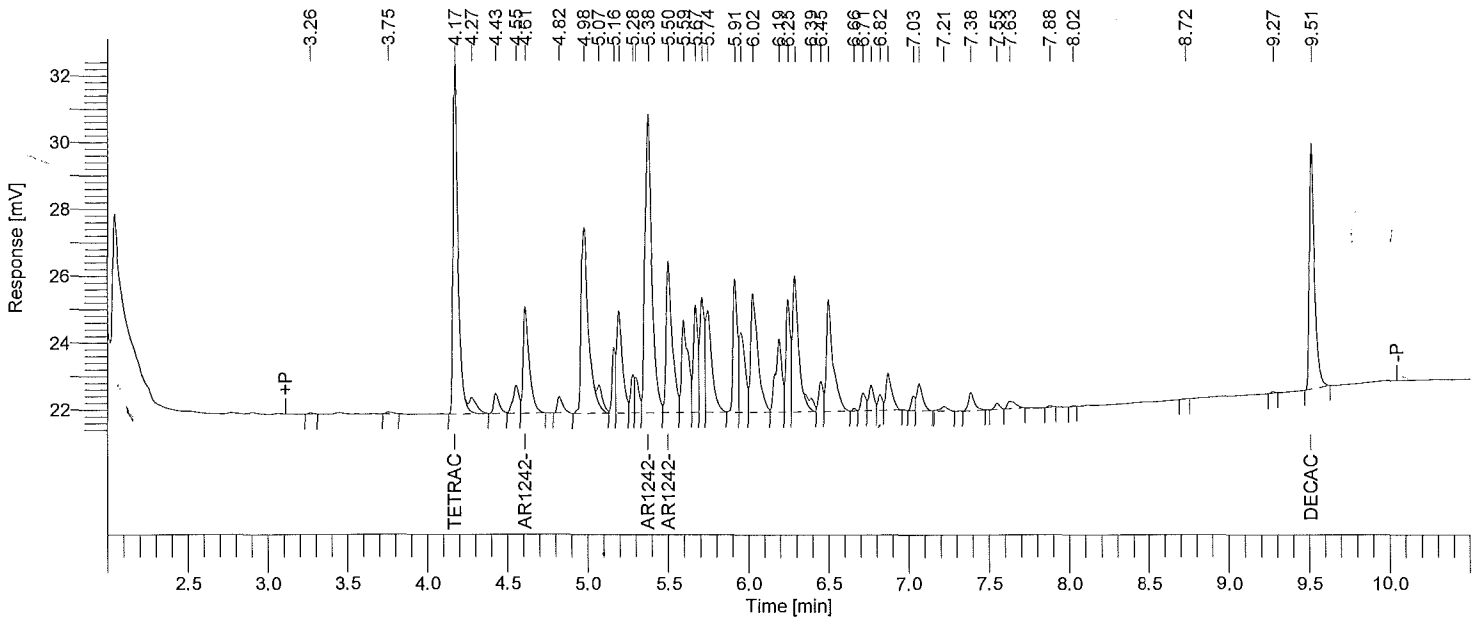

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	22547	0.0200000
4.61	AR1242-1	8304	0.4000000
5.38	AR1242-2	26345	0.4000000
5.50	AR1242-3	11720	0.4000000
9.51	Decachlorobiphenyl	16077	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:12:57
Opérator	: borges	Sample Name	: AR12483A2
Sample Number	: 12	Study	: 26416
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	: 06/12/2015 20:47:21	Cycle	: 12

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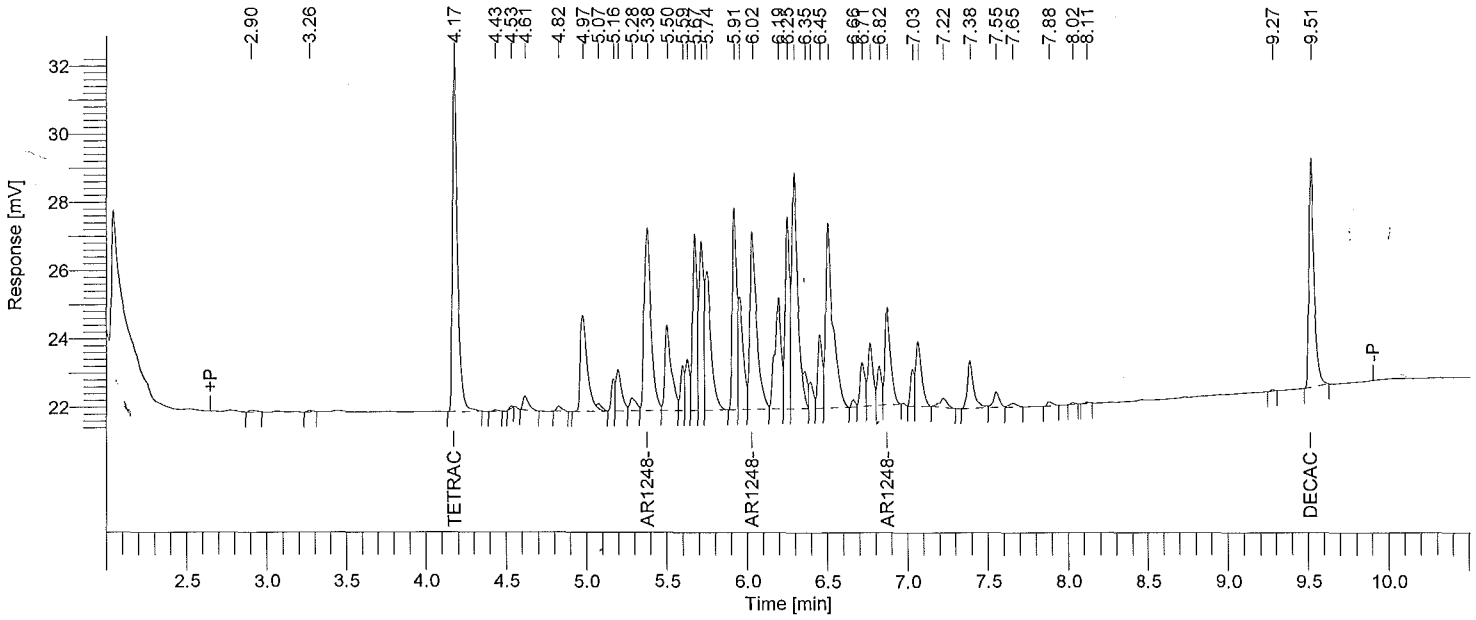

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	22321	0.0200000
5.38	AR1248-1	15961	0.4000000
6.02	AR1248-2	15089	0.4000000
6.87	AR1248-3	6908	0.4000000
9.51	Decachlorobiphenyl	14579	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:12:58
Operator	: borges	Sample Name	: AR12543A2
Sample Number	: 13	Study	: 26421
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	: 06/12/2015 21:03:27	Cycle	: 13

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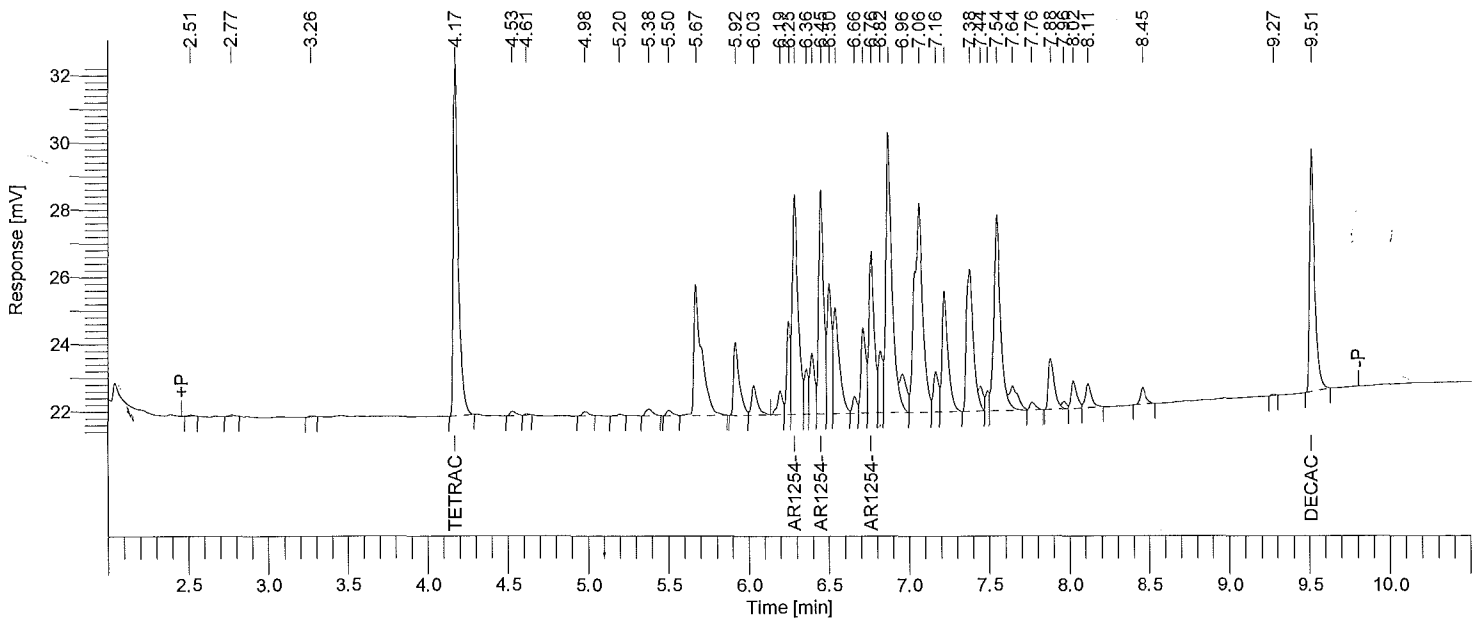

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	22519	0.0200000
6.28	AR1254-1	16258	0.4000000
6.45	AR1254-2	14353	0.4000000
6.76	AR1254-3	10699	0.4000000
9.51	Decachlorobiphenyl	15763	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:12:59
Operator	: borges	Sample Name	: AR12623A2
Sample Number	: 14	Study	: 26426
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	: 06/12/2015 21:19:33	Cycle	: 14

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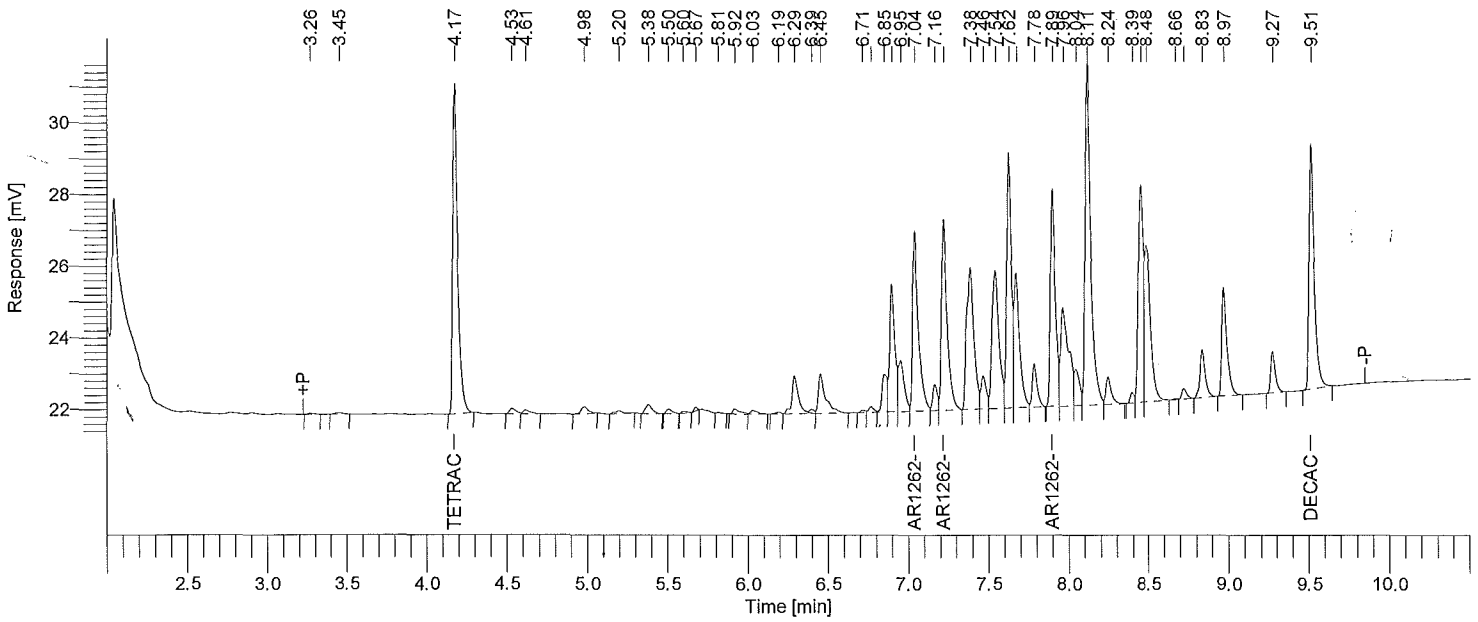

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	19658	0.0200000
7.04	AR1262-1	12524	0.4000000
7.22	AR1262-2	12918	0.4000000
7.89	AR1262-3	12868	0.4000000
9.51	Decachlorobiphenyl	15053	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:13:01
Operator	: borges	Sample Name	: AR12683A2
Sample Number	: 15	Study	: 26431
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	: 06/12/2015 21:35:39	Cycle	: 15

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_015.raw
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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_standard_b.rpt
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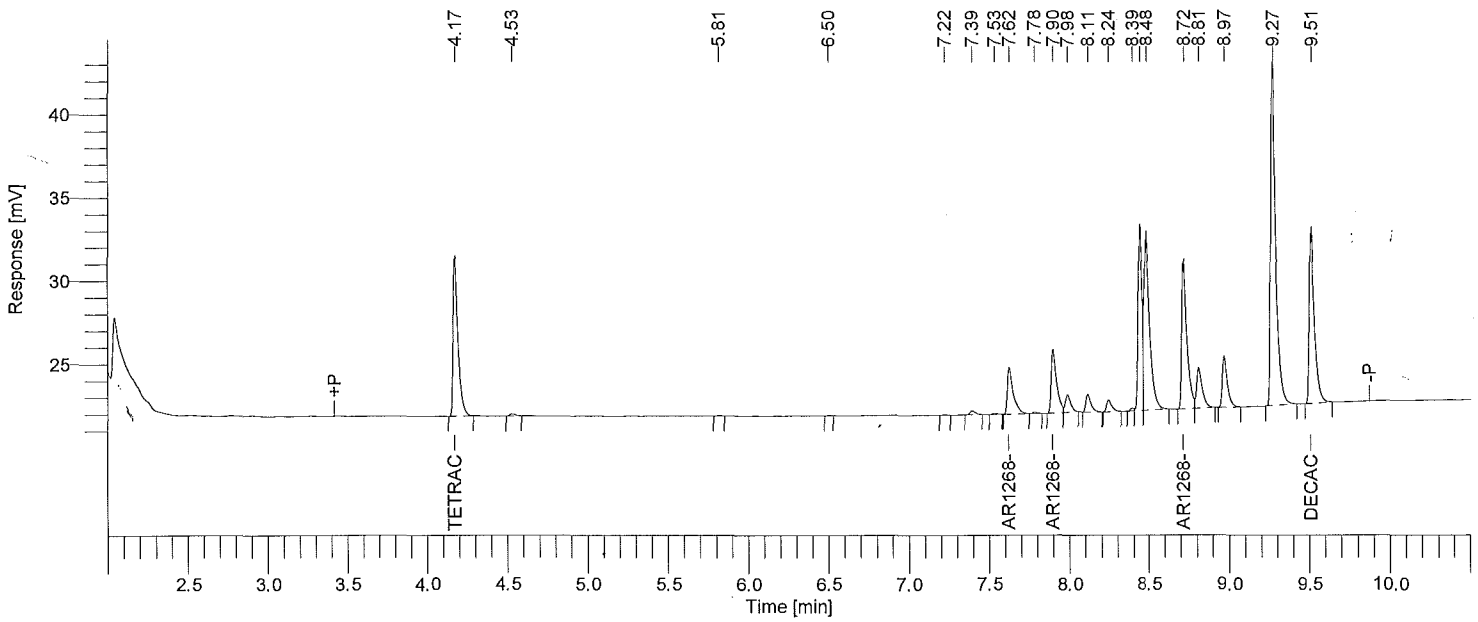

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.17	Tetrachloro-m-xylene	20291	0.0200000
7.62	AR1268-1	7170	0.4000000
7.90	AR1268-2	8864	0.4000000
8.72	AR1268-3	19545	0.4000000
9.51	Decachlorobiphenyl	23616	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:13:04
Operator	: borges	Sample Name	: AR16603B2
Sample Number	: 17	Study	: 26396
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		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/12/2015 22:08:07	Dilution Factor	: 1.00
		Cycle	: 17

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Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150612\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_017.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_017.rst
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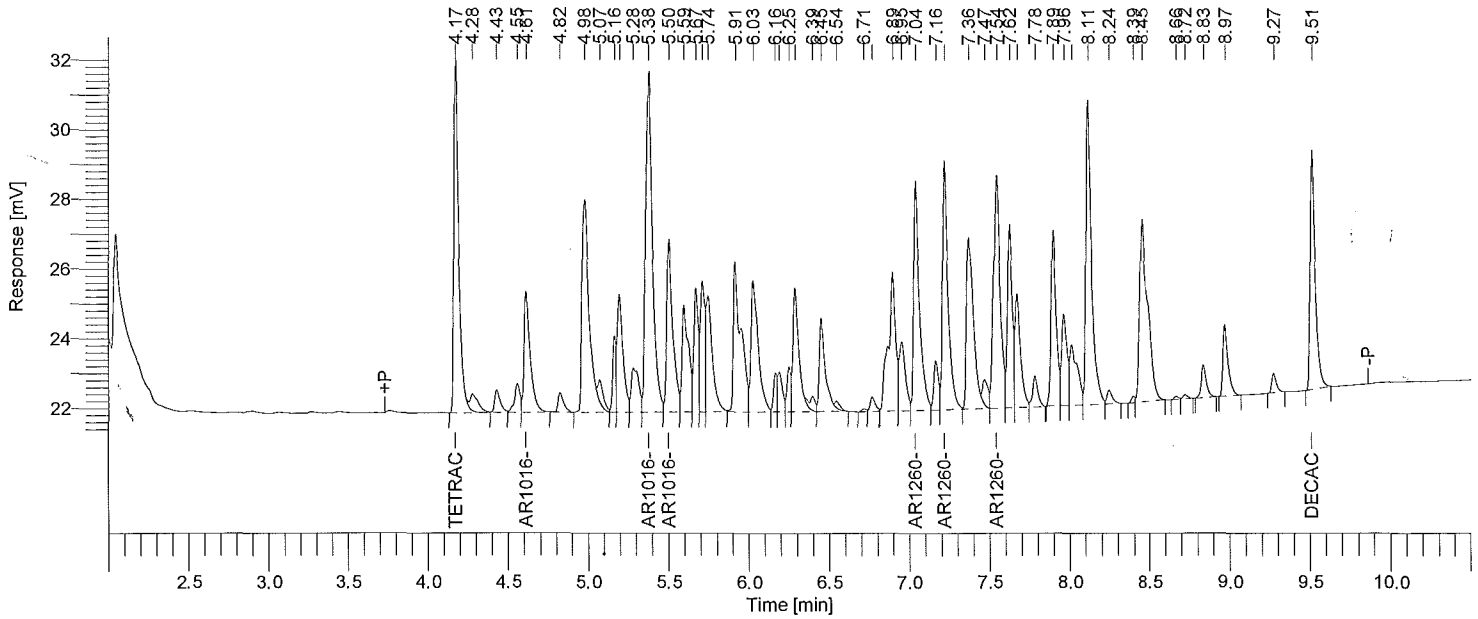
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_aroclor_ccv_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612_SOM_AROS_F9M21_A.seq



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	21886	0.0205308	0.0205308	0.0200000	102.7
4.61	AR1016-1	9133	0.4001085	0.4001085	0.4000000	100.0
5.38	AR1016-2	28997	0.4026404	0.4026404	0.4000000	100.7
5.50	AR1016-3	12919	0.4142308	0.4142308	0.4000000	103.6
7.04	AR1260-1	16626	0.3982175	0.3982175	0.4000000	99.6
7.21	AR1260-2	17152	0.3950087	0.3950087	0.4000000	98.8
7.54	AR1260-3	19253	0.3977058	0.3977058	0.4000000	99.4
9.51	Decachlorobiphenyl	15022	0.0417972	0.0417972	0.0400000	104.5

All analytes <= to +/-15% opening CCV, <=+/-50% closing CCV.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:13:06
Operator	: borges	Sample Name	: AR16603C2
Sample Number	: 45	Study	: 26396
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	: 06/13/2015 05:40:07	Cycle	: 45

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_045.raw
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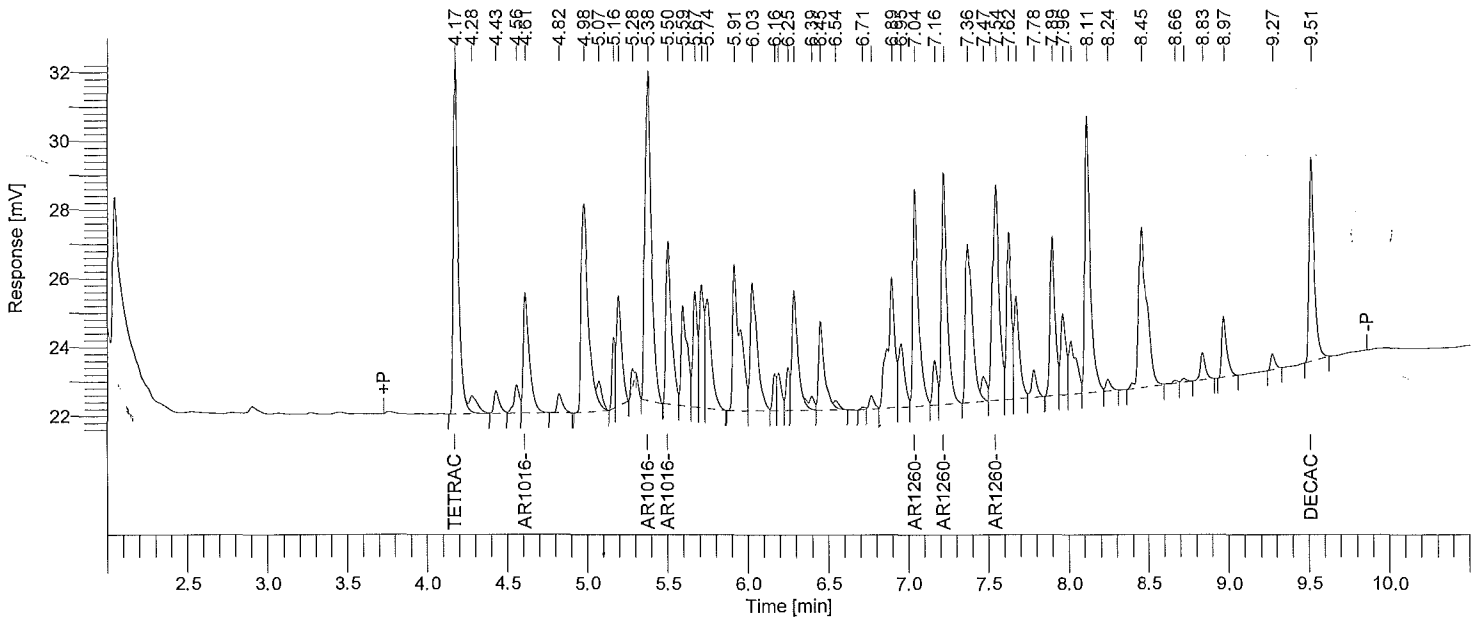
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_045.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_045.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_aroclor_ccv_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612_SOM_AROS_F9M21_A.seq



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	22129	0.0207588	0.0207588	0.0200000	103.8
4.61	AR1016-1	9069	0.3973231	0.3973231	0.4000000	99.3
5.38	AR1016-2	26781	0.3718622	0.3718622	0.4000000	93.0
5.50	AR1016-3	11467	0.3676606	0.3676606	0.4000000	91.9
7.04	AR1260-1	15551	0.3724767	0.3724767	0.4000000	93.1
7.22	AR1260-2	15947	0.3672714	0.3672714	0.4000000	91.8
7.54	AR1260-3	17932	0.3704252	0.3704252	0.4000000	92.6
9.51	Decachlorobiphenyl	12992	0.0361494	0.0361494	0.0400000	90.4

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.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450194

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20150612A019,20150612B019

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/12/2015

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	: 06/16/2015 19:16:05
Operator	: borges	Sample Name	: 450194
Sample Number	: 19	Study	: ABLKS1
AutoSampler	: HP7673A	Rack/Vial	: 0/19
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	: 06/12/2015 22:24:13	Cycle	: 2

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_019.raw
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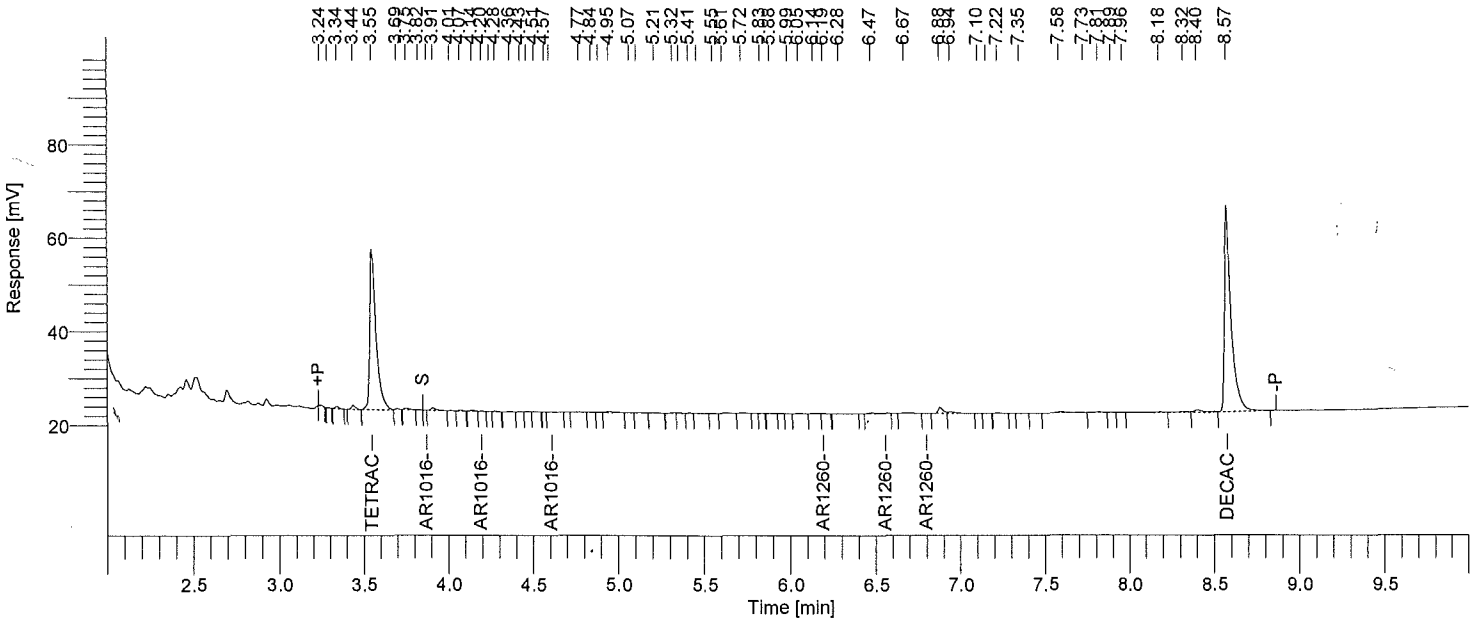
Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150612\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_019.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_019.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_019.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612_SOM_AROS_F9M21_A.seq



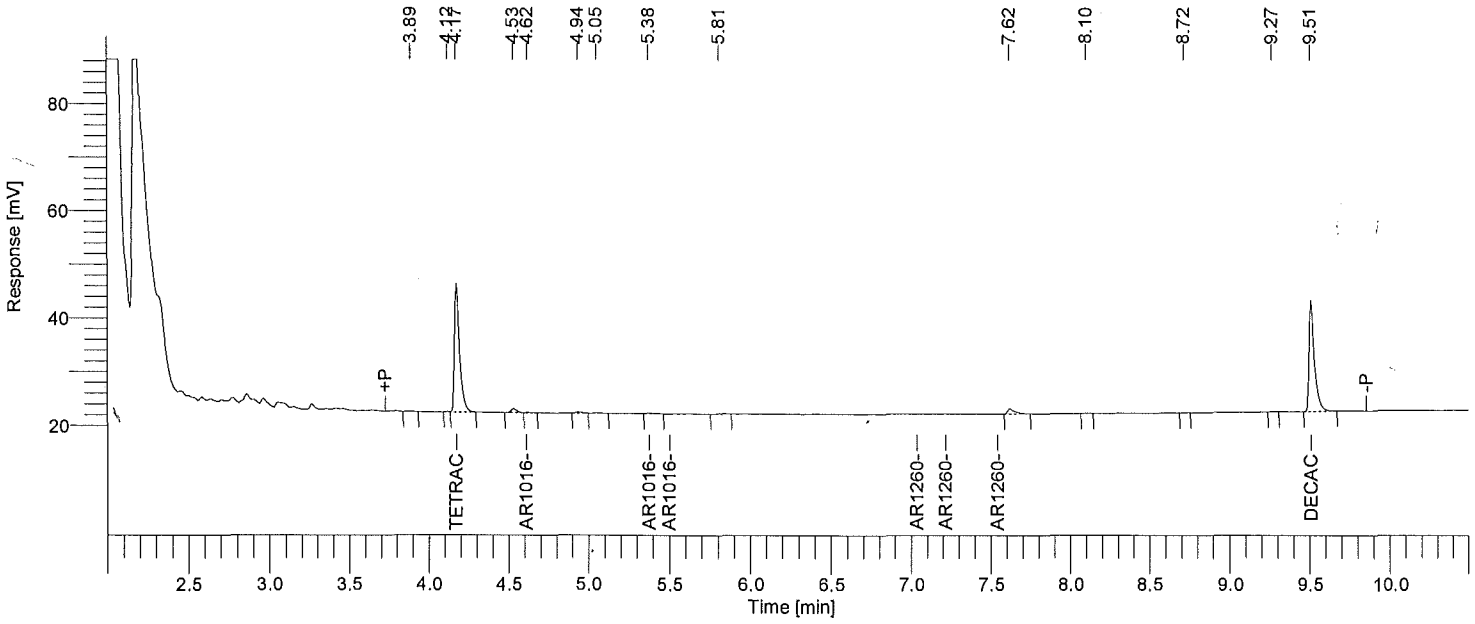
Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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 %
3.55	Tetrachloro-m-xylene	88373	0.04535492	1	10	0.03000	1.000	1.6667	15.11831	20.00	75.6
3.87	AR1016-1	31	8.0309e-04	1	10	0.03000	1.000	33.3333	0.26770	0.00	------
4.20	AR1016-2	126	1.5743e-03	1	10	0.03000	1.000	33.3333	0.52478	0.00	------
4.60	AR1016-3	296	1.9655e-03	1	10	0.03000	1.000	33.3333	0.65515	0.00	------
6.19	AR1260-1	76	8.7308e-04	1	10	0.03000	1.000	33.3333	0.29103	0.00	------
6.55	AR1260-2	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
6.80	AR1260-3	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
8.57	Decachlorobiphenyl	115222	0.12058287	1	10	0.03000	1.000	3.3333	40.19429	40.00	100.5

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:17:03
Operator	: borges	Sample Name	: 450194
Sample Number	: 19	Study	: ABLKS1
AutoSampler	: HP7673A	Rack/Vial	: 0/19
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	: 06/12/2015 22:40:17	Cycle	: 3

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_019.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_019.rst
Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150612\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_019.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_019.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_019.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612_SOM_AROS_F9M21_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	53073	0.04978795	1	10	0.03000	1.000	1.6667	16.59598	20.00	83.0
4.62	AR1016-1	298	0.01307104	1	10	0.03000	1.000	33.3333	4.35701	0.00	------
5.38	AR1016-2	489	6.7958e-03	1	10	0.03000	1.000	33.3333	2.26528	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	47315	0.13165169	1	10	0.03000	1.000	3.3333	43.88390	40.00	109.7

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.: F9M21

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: AIBLKB1

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20150612A016

% Moisture: 0.0 Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 06/12/2015

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	: 06/16/2015 19:12:37
Operator	: borges	Sample Name	: AIBLKB1
Sample Number	: 16	Study	: 26387
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/12/2015 21:35:39	Cycle	: 15

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_016.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_016.rst
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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_016.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_016.rst
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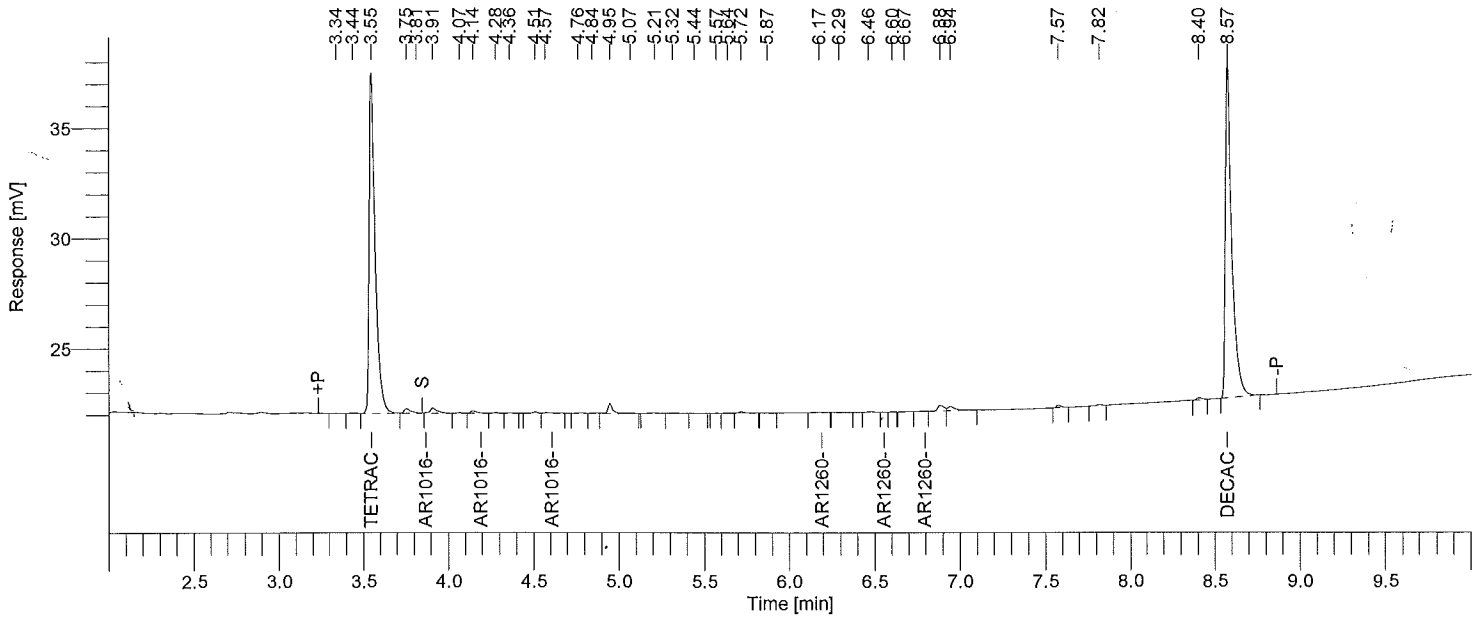

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

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 %
3.55	Tetrachloro-m-xylene	38368	0.019692	1	10	1.000	1.000	0.050000	0.196915	0.2000	98.5
3.91	AR1016-1	737	0.019029	1	10	1.000	1.000	1.000000	0.190288	0.0000	-----
4.14	AR1016-2	286	3.58e-03	1	10	1.000	1.000	1.000000	0.035771	0.0000	-----
4.57	AR1016-3	94	6.22e-04	1	10	1.000	1.000	1.000000	0.006223	0.0000	-----
6.17	AR1260-1	69	7.95e-04	1	10	1.000	1.000	1.000000	0.007954	0.0000	-----
6.60	AR1260-2	24	4.62e-04	1	10	1.000	1.000	1.000000	0.004621	0.0000	-----
6.80	AR1260-3	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.57	Decachlorobiphenyl	39470	0.041307	1	10	1.000	1.000	0.100000	0.413066	0.4000	103.3

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.: F9M21

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: AIBLKC1

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20150612A044

% Moisture: 0.0 Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) _____ Date Extracted: _____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/13/2015

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	: 06/16/2015 19:12:42
Operator	: borges	Sample Name	: AIBLKC1
Sample Number	: 44	Study	: 26387
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	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/13/2015 05:07:55	Cycle	: 43

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_044.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_044.rst
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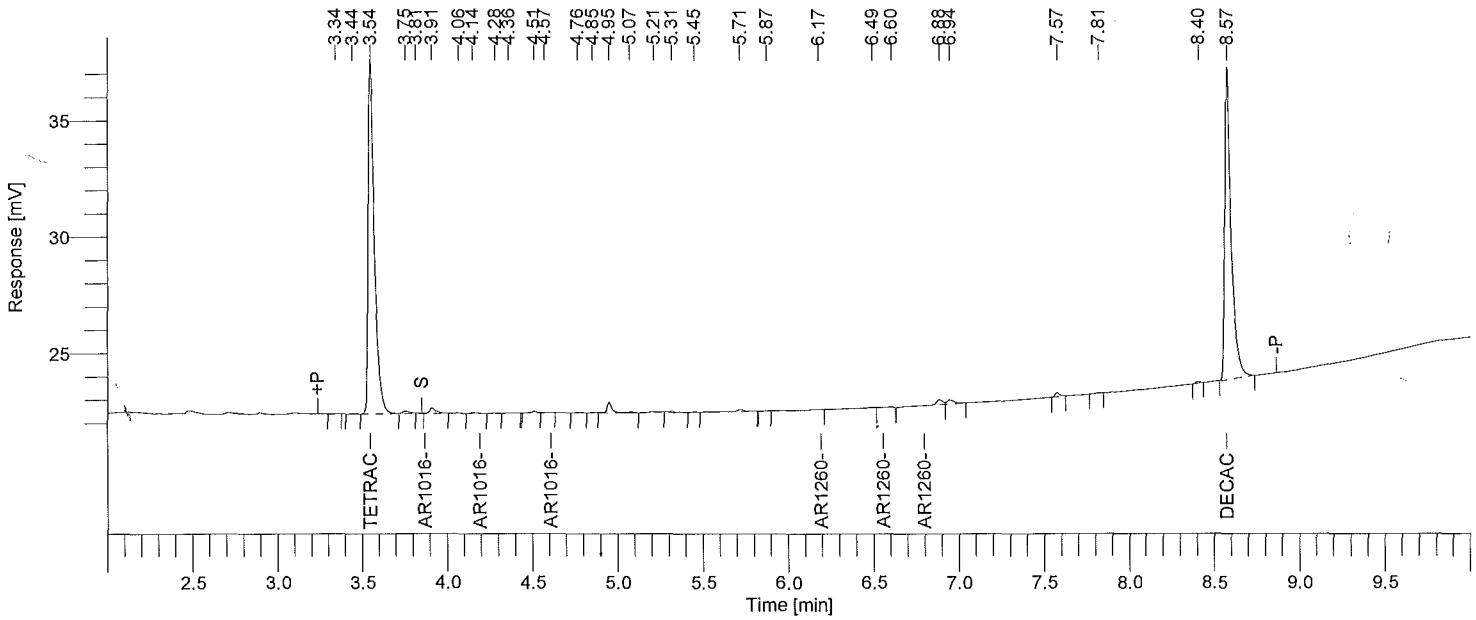

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

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	37980	0.019492	1	10	1.000	1.000	0.050000	0.194923	0.2000	97.5
3.91	AR1016-1	696	0.017964	1	10	1.000	1.000	1.000000	0.179637	0.0000	-----
4.14	AR1016-2	194	2.42e-03	1	10	1.000	1.000	1.000000	0.024218	0.0000	-----
4.57	AR1016-3	27	1.80e-04	1	10	1.000	1.000	1.000000	0.001798	0.0000	-----
6.17	AR1260-1	148	1.70e-03	1	10	1.000	1.000	1.000000	0.016971	0.0000	-----
6.60	AR1260-2	96	1.89e-03	1	10	1.000	1.000	1.000000	0.018883	0.0000	-----
6.80	AR1260-3	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.57	Decachlorobiphenyl	34723	0.036338	1	10	1.000	1.000	0.100000	0.363380	0.4000	90.8

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.: F9M21

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: AIBLKB2

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20150612B016

% Moisture: 0.0 Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 06/12/2015

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	: 06/16/2015 19:13:02
Operator	: borges	Sample Name	: AIBLKB2
Sample Number	: 16	Study	: 26387
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		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/12/2015 21:52:03	Dilution Factor	: 1.00
		Cycle	: 16

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_016.raw
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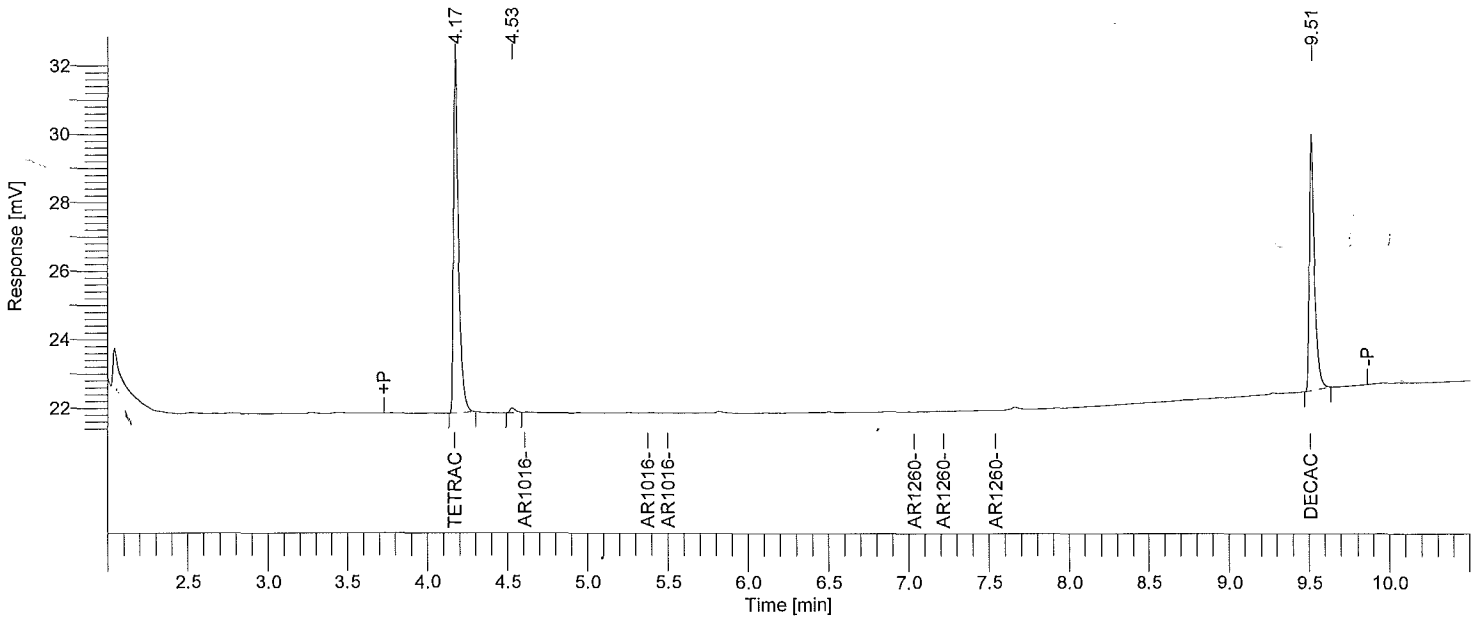

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

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	22192	0.020818	1	10	1.000	1.000	0.050000	0.208184	0.2000	104.1
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	16462	0.045804	1	10	1.000	1.000	0.100000	0.458043	0.4000	114.5

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.: F9M21

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: AIBLKC2

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20150612B044

% Moisture: 0.0 Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 06/13/2015

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	: 06/16/2015 19:13:05
Operator	: borges	Sample Name	: AIBLKC2
Sample Number	: 44	Study	: 26387
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		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/13/2015 05:24:01	Dilution Factor	: 1.00
		Cycle	: 44

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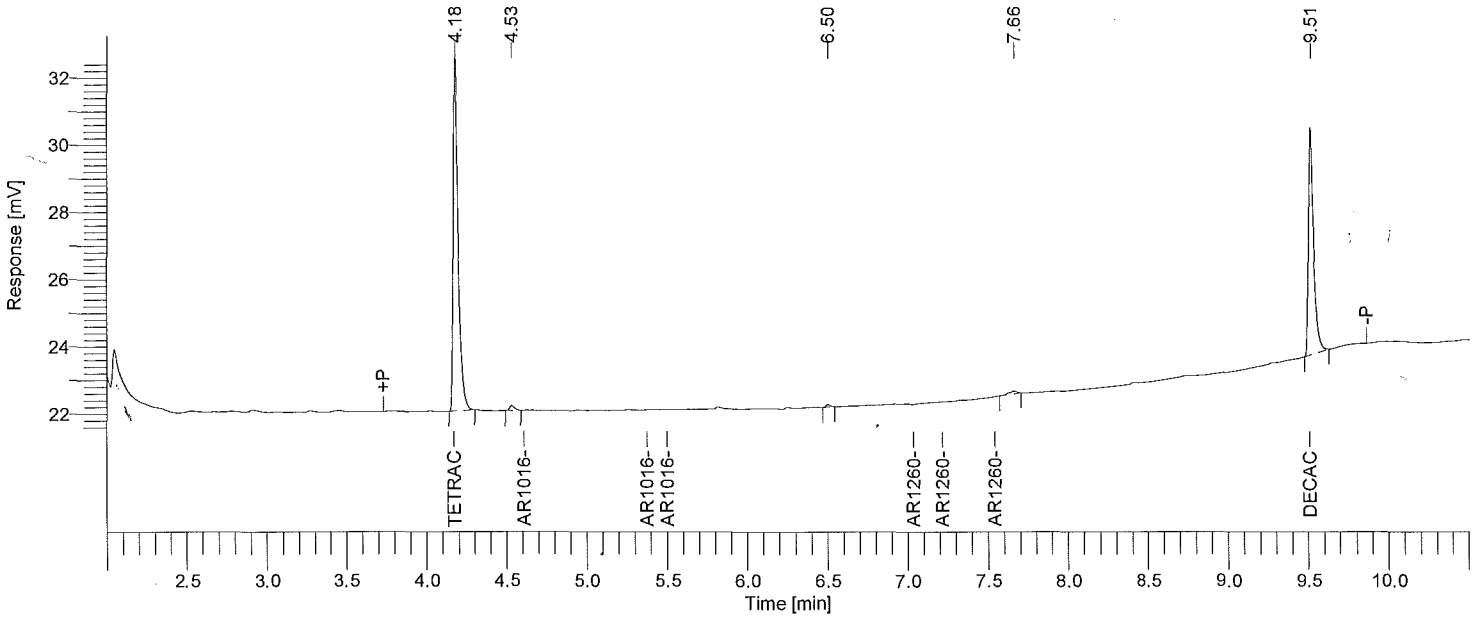

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

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 %
4.18	Tetrachloro-m-xylene	22651	0.021249	1	10	1.000	1.000	0.050000	0.212491	0.2000	106.2
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	14890	0.041431	1	10	1.000	1.000	0.100000	0.414314	0.4000	103.6

All analytes <CRQL.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M27MS(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542008

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 20150612A028

% Moisture: 19. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/13/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 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	150	
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	130	
37324-23-5	Aroclor-1262	41.	U
11100-14-4	Aroclor-1268	41.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:16:31
Operator	: borges	Sample Name	: 1515542008
Sample Number	: 28	Study	: F9M27MS
AutoSampler	: HP7673A	Rack/Vial	: 0/28
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	: 06/13/2015 00:49:27	Cycle	: 11

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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
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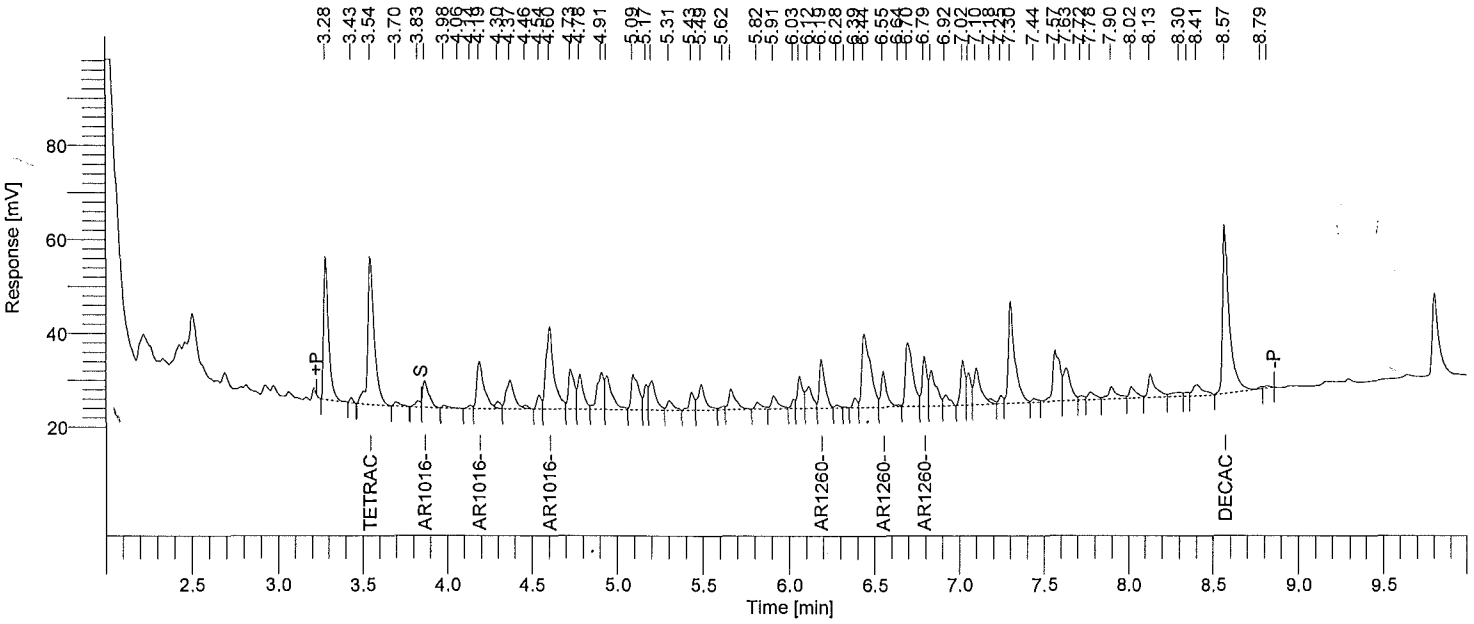

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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	86020	0.04414727	1	10	0.03010	0.997	1.6611	14.66687	19.93	73.6
3.87	AR1016-1	14111	0.36430041	1	10	0.03010	0.997	33.2226	121.03004	0.00	------
4.19	AR1016-2	30427	0.38004599	1	10	0.03010	0.997	33.2226	126.26113	0.00	------
4.60	AR1016-3	57314	0.38120974	1	10	0.03010	0.997	33.2226	126.64775	0.00	------
6.19	AR1260-1	23868	0.27326263	1	10	0.03010	0.997	33.2226	90.78493	0.00	------
6.55	AR1260-2	17370	0.34137250	1	10	0.03010	0.997	33.2226	113.41279	0.00	------
6.79	AR1260-3	20310	0.36114531	1	10	0.03010	0.997	33.2226	119.98183	0.00	------
8.57	Decachlorobiphenyl	97264	0.10178930	1	10	0.03010	0.997	3.3223	33.81704	39.87	84.8

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M27MS(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542008

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 20150612B028

% Moisture: 19. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/13/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 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	170	
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	160	
37324-23-5	Aroclor-1262	41.	U
11100-14-4	Aroclor-1268	41.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:17:22
Operator	: borges	Sample Name	: 1515542008
Sample Number	: 28	Study	: F9M27MS
AutoSampler	: HP7673A	Rack/Vial	: 0/28
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	: 06/13/2015 01:05:33	Cycle	: 12

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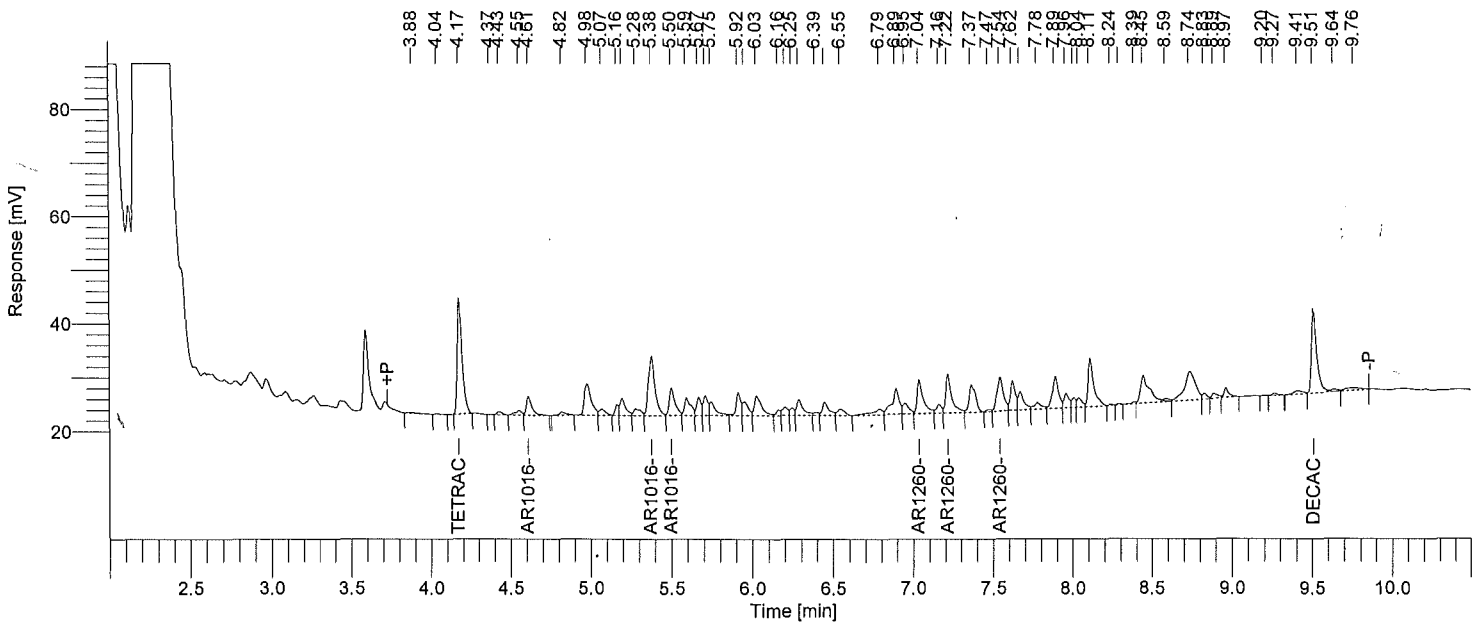

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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	46313	0.04344645	1	10	0.03010	0.997	1.6611	14.43404	19.93	72.4
4.61	AR1016-1	8486	0.37178502	1	10	0.03010	0.997	33.2226	123.51662	0.00	------
5.38	AR1016-2	31586	0.43858945	1	10	0.03010	0.997	33.2226	145.71078	0.00	------
5.50	AR1016-3	12756	0.40900536	1	10	0.03010	0.997	33.2226	135.88218	0.00	------
7.04	AR1260-1	16677	0.39944964	1	10	0.03010	0.997	33.2226	132.70752	0.00	------
7.22	AR1260-2	18722	0.43118263	1	10	0.03010	0.997	33.2226	143.25004	0.00	------
7.54	AR1260-3	17745	0.36655098	1	10	0.03010	0.997	33.2226	121.77774	0.00	------
9.51	Decachlorobiphenyl	35282	0.09817157	1	10	0.03010	0.997	3.3223	32.61514	39.87	81.8

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M27MSD(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542009

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 20150612A029

% Moisture: 19. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/13/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 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	150	
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	130	P
37324-23-5	Aroclor-1262	41.	U
11100-14-4	Aroclor-1268	41.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:16:34
Operator	: borges	Sample Name	: 1515542009
Sample Number	: 29	Study	: F9M27MSD
AutoSampler	: HP7673A	Rack/Vial	: 0/29
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	: 06/13/2015 01:05:33	Dilution Factor	: 1.00
		Cycle	: 12

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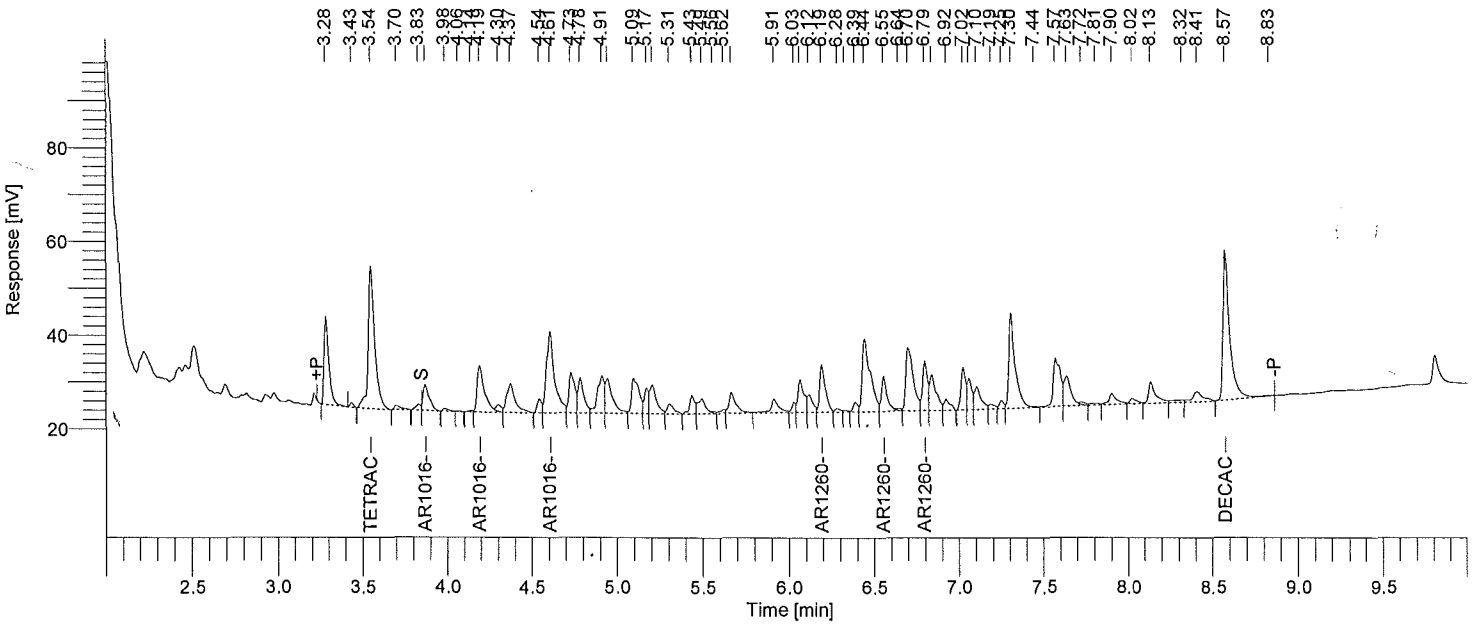

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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	82989	0.04259158	1	10	0.03010	0.997	1.6611	14.15003	19.93	71.0
3.87	AR1016-1	13667	0.35283422	1	10	0.03010	0.997	33.2226	117.22067	0.00	------
4.19	AR1016-2	29891	0.37335695	1	10	0.03010	0.997	33.2226	124.03885	0.00	------
4.61	AR1016-3	57096	0.37975689	1	10	0.03010	0.997	33.2226	126.16508	0.00	------
6.19	AR1260-1	23565	0.26979105	1	10	0.03010	0.997	33.2226	89.63158	0.00	------
6.55	AR1260-2	17378	0.34152311	1	10	0.03010	0.997	33.2226	113.46283	0.00	------
6.79	AR1260-3	20704	0.36814174	1	10	0.03010	0.997	33.2226	122.30623	0.00	------
8.57	Decachlorobiphenyl	85686	0.08967232	1	10	0.03010	0.997	3.3223	29.79147	39.87	74.7

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M27MSD(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542009

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 20150612B029

% Moisture: 19. Decanted: (Y/N) N Date Received: 06/03/2015

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/13/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 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	170	
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	170	P
37324-23-5	Aroclor-1262	41.	U
11100-14-4	Aroclor-1268	41.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:17:24
Operator	: borges	Sample Name	: 1515542009
Sample Number	: 29	Study	: F9M27MSD
AutoSampler	: HP7673A	Rack/Vial	: 0/29
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	: 06/13/2015 01:21:37	Cycle	: 13

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_029.raw
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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_029.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_029.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
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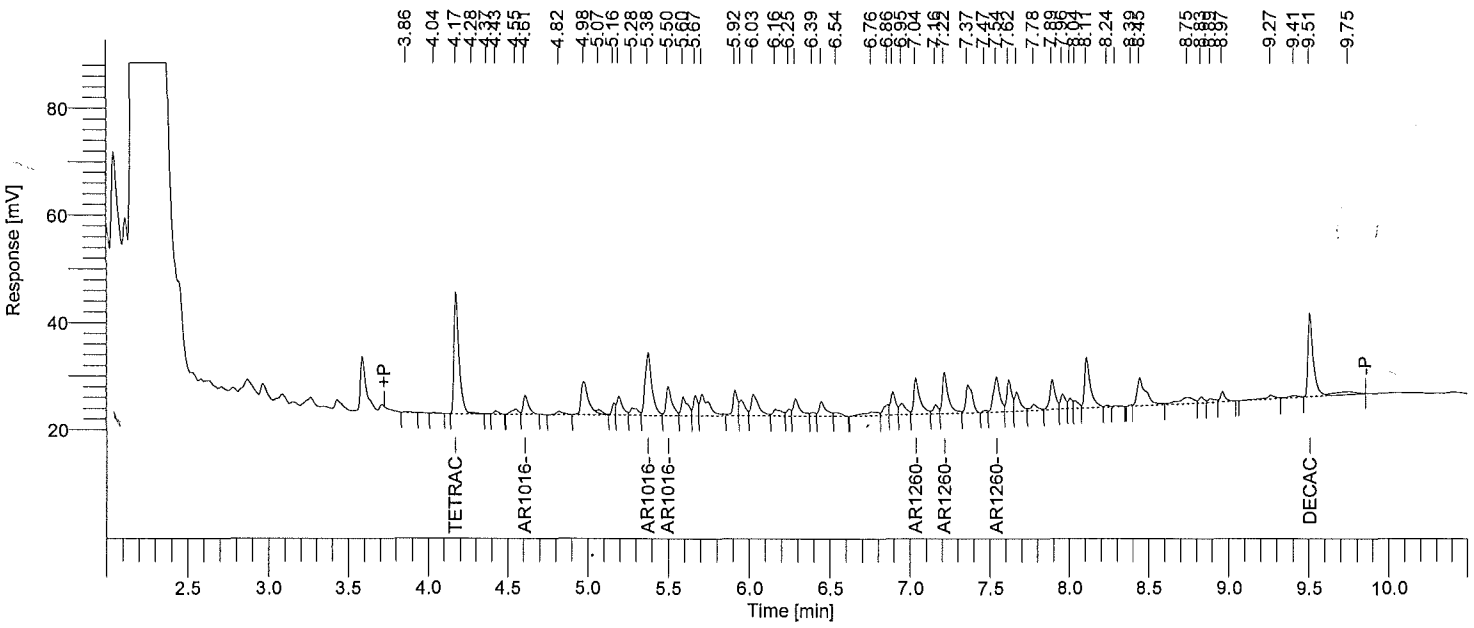

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

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	49637	0.04656445	1	10	0.03010	0.997	1.6611	15.46992	19.93	77.6
4.61	AR1016-1	8067	0.35339914	1	10	0.03010	0.997	33.2226	117.40835	0.00	------
5.38	AR1016-2	33806	0.46940969	1	10	0.03010	0.997	33.2226	155.95006	0.00	------
5.50	AR1016-3	13717	0.43979589	1	10	0.03010	0.997	33.2226	146.11159	0.00	------
7.04	AR1260-1	17829	0.42703647	1	10	0.03010	0.997	33.2226	141.87258	0.00	------
7.22	AR1260-2	19657	0.45270005	1	10	0.03010	0.997	33.2226	150.39869	0.00	------
7.54	AR1260-3	18639	0.38503293	1	10	0.03010	0.997	33.2226	127.91792	0.00	------
9.51	Decachlorobiphenyl	35535	0.09887432	1	10	0.03010	0.997	3.3223	32.84861	39.87	82.4

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.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450196

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20150612A020

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/12/2015

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.	
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	35.	
37324-23-5	Aroclor-1262	33.	U
11100-14-4	Aroclor-1268	33.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:16:07
Operator	: borges	Sample Name	: 450196
Sample Number	: 20	Study	: ALCSS1
AutoSampler	: HP7673A	Rack/Vial	: 0/20
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	: 06/12/2015 22:40:17	Dilution Factor	: 1.00
		Cycle	: 3

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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_020.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612A_020.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_lcs_a.rpt
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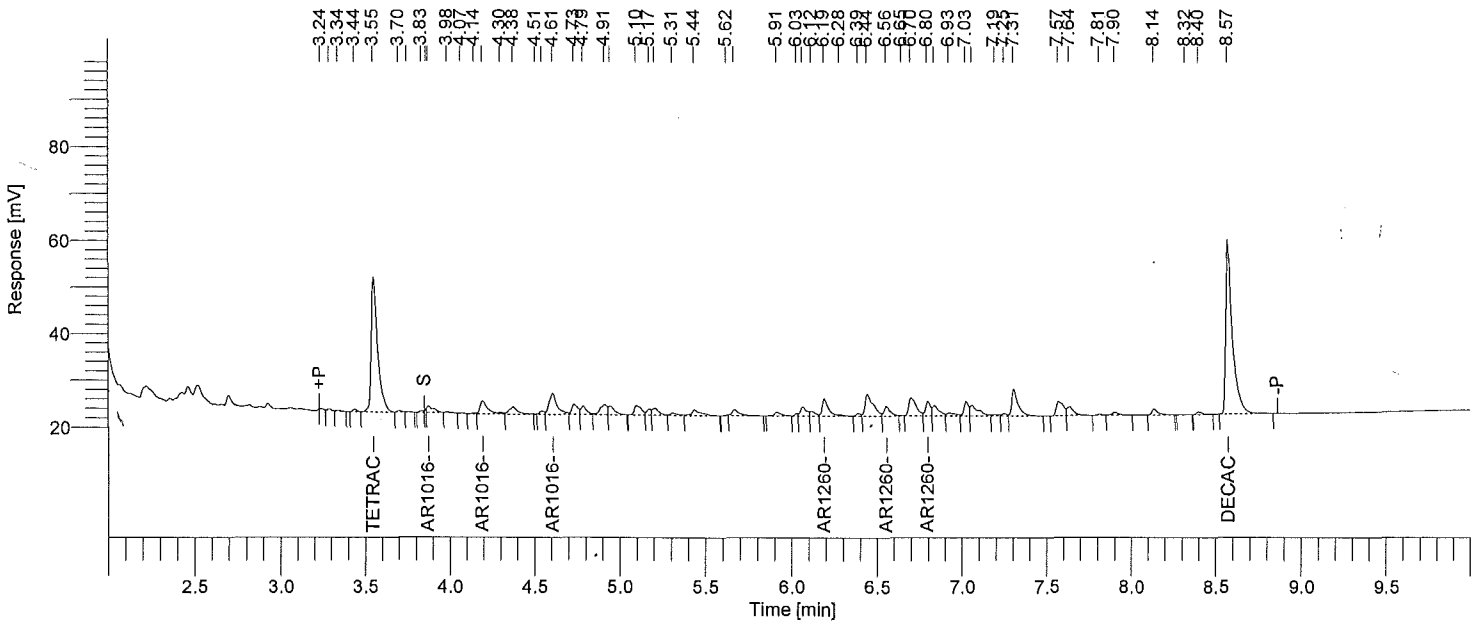

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL LCS REPORT

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 %
3.55	Tetrachloro-m-xylene	75745	0.03887402	1	10	0.030	1.000	1.6667	12.95801	20.00	64.8
3.87	AR1016-1	3838	0.09908867	1	10	0.030	1.000	33.3333	33.02956	33.33	99.1
4.19	AR1016-2	8279	0.10341574	1	10	0.030	1.000	33.3333	34.47191	33.33	103.4
4.61	AR1016-3	14395	0.09574632	1	10	0.030	1.000	33.3333	31.91544	33.33	95.7
6.19	AR1260-1	9367	0.10724298	1	10	0.030	1.000	33.3333	35.74766	33.33	107.2
6.56	AR1260-2	5100	0.10022310	1	10	0.030	1.000	33.3333	33.40770	33.33	100.2
6.80	AR1260-3	6131	0.10900868	1	10	0.030	1.000	33.3333	36.33623	33.33	109.0
8.57	Decachlorobiphenyl	97110	0.10162813	1	10	0.030	1.000	3.3333	33.87604	40.00	84.7

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.: F9M21

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450196

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20150612B020

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 06/05/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/12/2015

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	30.	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	36.	
37324-23-5	Aroclor-1262	33.	U
11100-14-4	Aroclor-1268	33.	U

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:17:05
Operator	: borges	Sample Name	: 450196
Sample Number	: 20	Study	: ALCSS1
AutoSampler	: HP7673A	Rack/Vial	: 0/20
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	: 06/12/2015 22:56:25	Cycle	: 4

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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150612\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_020.rst
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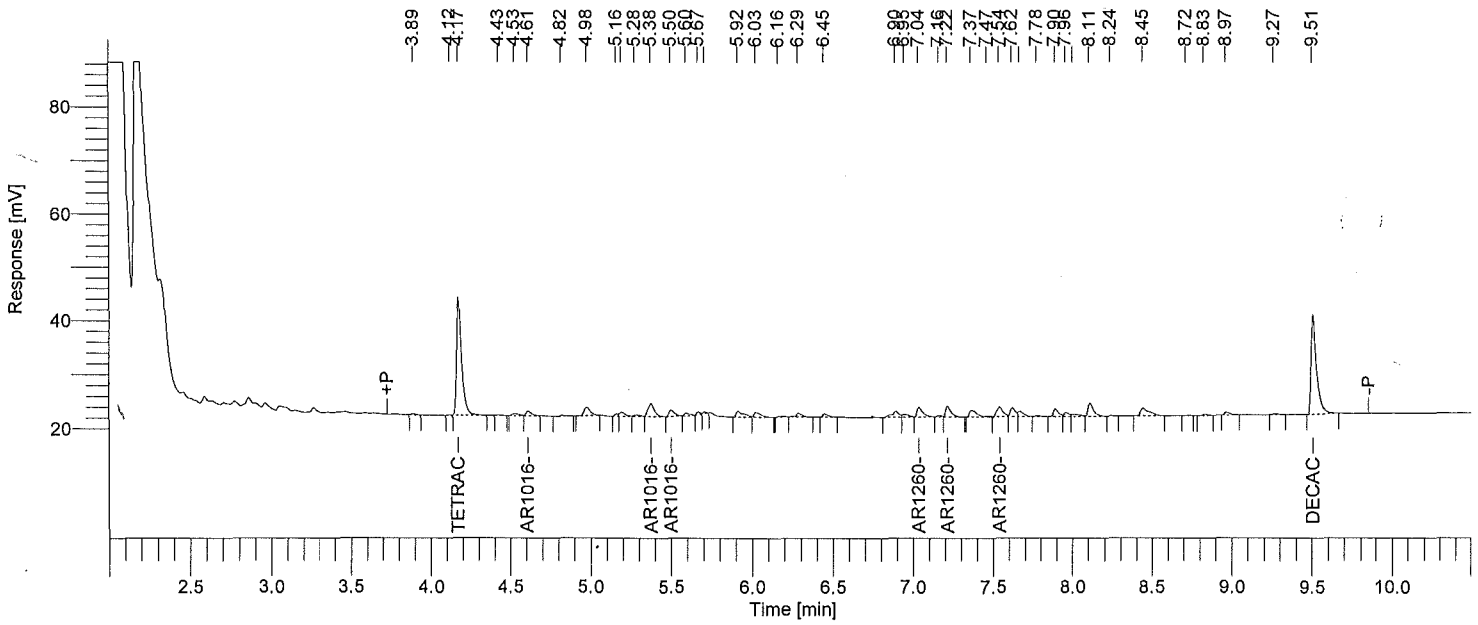


Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL LCS REPORT

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	48591	0.04558270	1	10	0.03000	1.000	1.6667	15.19423	20.00	76.0
4.61	AR1016-1	1977	0.08659242	1	10	0.03000	1.000	33.3333	28.86414	33.33	86.6
5.38	AR1016-2	6710	0.09316552	1	10	0.03000	1.000	33.3333	31.05517	33.33	93.2
5.50	AR1016-3	2676	0.08580279	1	10	0.03000	1.000	33.3333	28.60093	33.33	85.8
7.04	AR1260-1	4509	0.10798745	1	10	0.03000	1.000	33.3333	35.99582	33.33	108.0
7.22	AR1260-2	4705	0.10835207	1	10	0.03000	1.000	33.3333	36.11736	33.33	108.4
7.54	AR1260-3	5031	0.10392442	1	10	0.03000	1.000	33.3333	34.64147	33.33	103.9
9.51	Decachlorobiphenyl	42351	0.11783897	1	10	0.03000	1.000	3.3333	39.27966	40.00	98.2

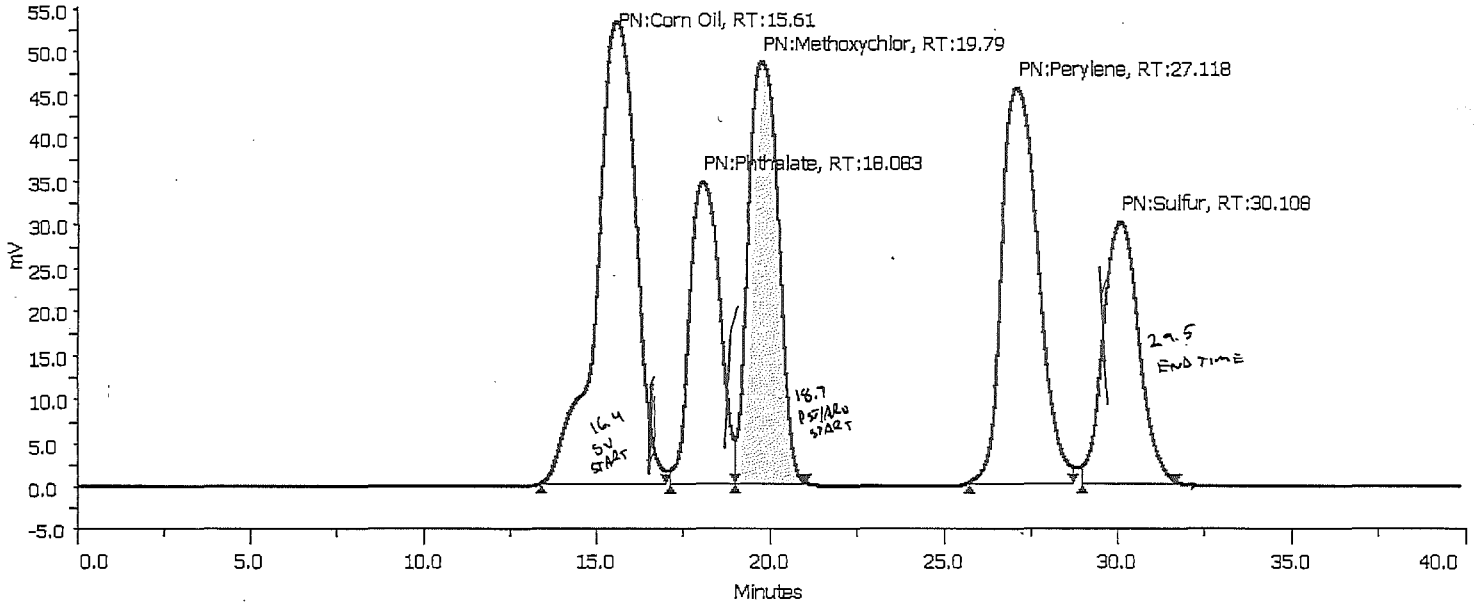
Surrogates 30 to 150%. g-BHC, Endrin, Endosulfan sulfate 50-120%. Dieldren, g-Chlordane 30-130%. Heptachlor Epoxide, DDE 50-150%. Aroclors 50-150%.

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
6/2/15
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

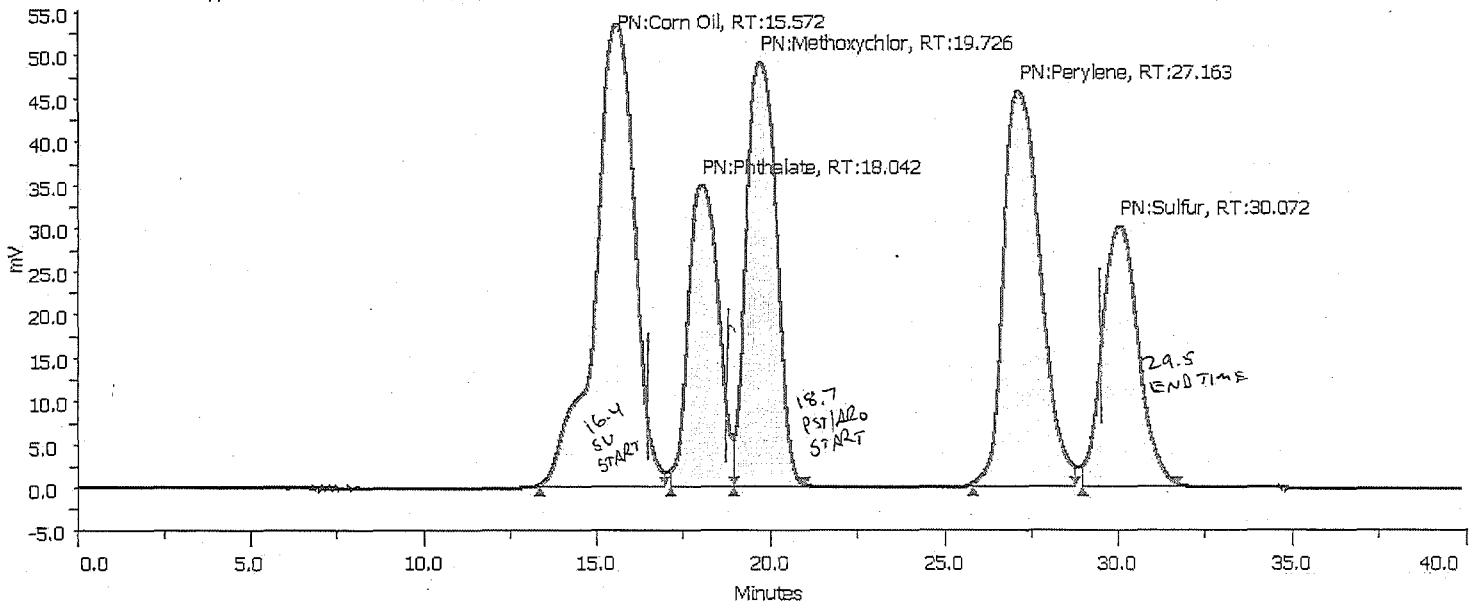
Run Variables

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
5/25/15
Lyle Ed
STD# 195WS38823

App: ALS GPC Methods Small FC, Run: 05252015-065257 @ 5/25/2015 6:53:02 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	13.345	15.572	6981755.4167	53.19	0	90.823
3	GPC 6 Weekly	Sample Zone->1	Phthalate	17.114	18.042	3453661.6667	34.59	90.823	87.338
3	GPC 6 Weekly	Sample Zone->1	Methoxychlor	18.968	19.726	4909087.5	48.69	87.338	298.745
3	GPC 6 Weekly	Sample Zone->1	Perylene	25.829	27.163	5531085.8333	45.32	298.745	102.496
3	GPC 6 Weekly	Sample Zone->1	Sulfur	28.983	30.072	3584026.25	29.85	102.496	0

Run Variables

Software Version	: 6.3.1.0504	Date	: 06/16/2015 19:17:02
Operator	: borges	Sample Name	: GPC60606
Sample Number	: 18	Study	: GPCBLK1
AutoSampler	: HP7673A	Rack/Vial	: 0/18
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	: 06/12/2015 22:24:13	Cycle	: 2

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150612\20150612B_018.raw
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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_aroclor_gpc blk_b.rpt
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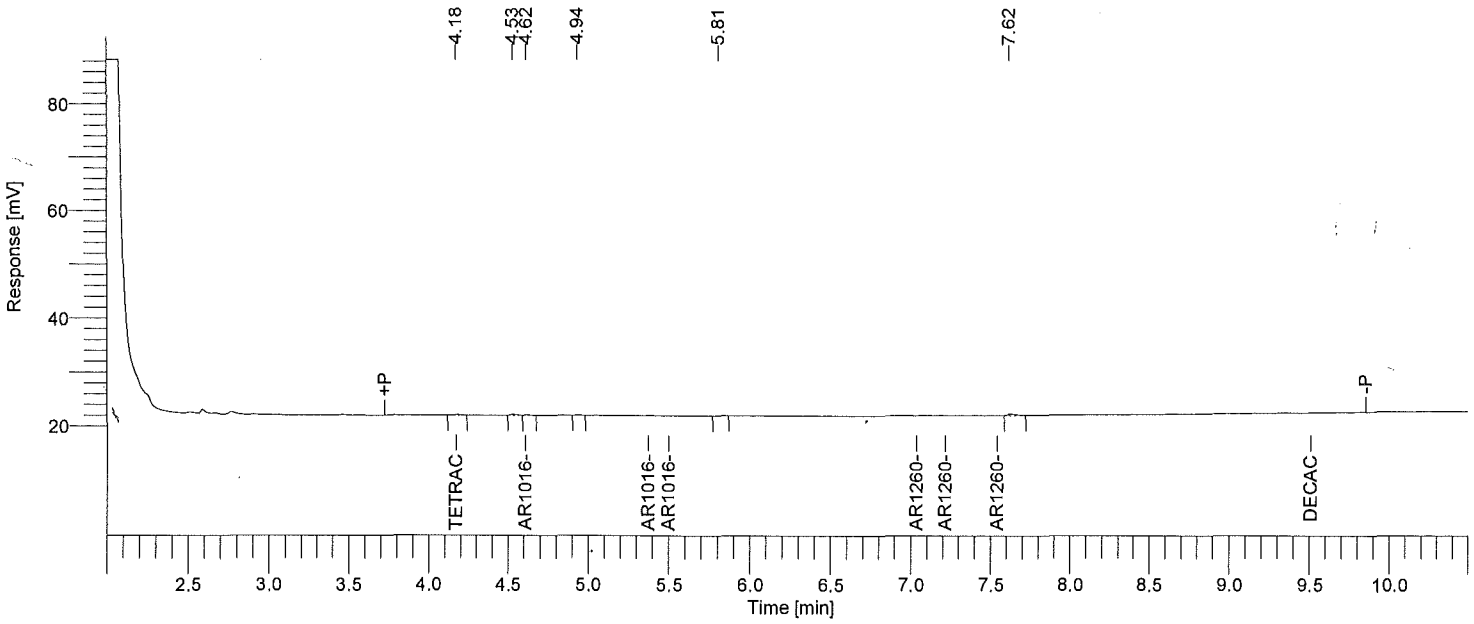

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM ARO GPC BLK REPORT

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
4.18	Tetrachloro-m-xylene	397	3.71984e-04	1	10	1.000	1.000	0.050000	0.003720
4.62	AR1016-1	230	0.010070161	1	10	1.000	1.000	1.000000	0.100702
5.38	AR1016-2	0	0.000000000	1	10	1.000	1.000	--------	0.000000
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:
1515542	20	6/3/15	6/8 & 6/9/15
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									

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SU57BFB	06/08/2015 16:17	CQC	SCLPSS	1	23.13	1	SOIL	BFBS1	50 ng BFB		0
	COMMENTS: 2.0 uL of 28268										
SU58S50	06/08/2015 16:48	CQC	SCLPSS	2	23.12	1	SOIL	VSTD050S1	VSTD050S1	50 u	1595206
	COMMENTS: 2.5 uL of 28198, 28199; 2.0 uL of 28268										
SU59BLK	06/08/2015 17:45	CQC	SCLPSS	3	23.12	1	SOIL	450610	VBLKS1		1464409
	COMMENTS: 2.5 uL of 28198										
SU60C001	06/08/2015 18:17	CQC	SCLPSS	4	23.13	1	SOIL	1515542001	F9M21		1438356
	COMMENTS: 1515542										
SU61C002	06/08/2015 18:48	CQC	SCLPSS	5	23.11	1	SOIL	1515542002	F9M22		1631555
	COMMENTS: 1515542										
SU62C003	06/08/2015 19:19	CQC	SCLPSS	6	23.10	1	SOIL	1515542003	F9M23		1507746
	COMMENTS: 1515542										
SU63C004	06/08/2015 19:50	CQC	SCLPSS	7	23.12	1	SOIL	1515542004	F9M24		1391955
	COMMENTS: 1515542										
SU64C005	06/08/2015 20:21	CQC	SCLPSS	8	23.12	1	SOIL	1515542005	F9M25		1532045
	COMMENTS: 1515542										
SU65C006	06/08/2015 20:52	CQC	SCLPSS	9	23.16	1	SOIL	1515542006	F9M26		1501164
	COMMENTS: 1515542										
SU66C007	06/08/2015 21:23	CQC	SCLPSS	10	23.12	1	SOIL	1515542007	F9M27		1485889
	COMMENTS: 1515542										
SU67C010	06/08/2015 21:53	CQC	SCLPSS	11	23.16	1	SOIL	1515542010	F9M28		1356207
	COMMENTS: 1515542										
SU68C011	06/08/2015 22:23	CQC	SCLPSS	12	23.12	1	SOIL	1515542011	F9M29		1284113
	COMMENTS: 1515542										
SU69C012	06/08/2015 22:53	CQC	SCLPSS	13	23.15	1	SOIL	1515542012	F9M30		991986
	COMMENTS: 1515542										
SU70C013	06/08/2015 23:23	CQC	SCLPSS	14	23.13	1	SOIL	1515542013	F9M31		1253692
	COMMENTS: 1515542										
SU71C014	06/08/2015 23:54	CQC	SCLPSS	15	23.13	1	SOIL	1515542014	F9M32		1339014
	COMMENTS: 1515542										
SU72C015	06/09/2015 00:24	CQC	SCLPSS	16	23.13	1	SOIL	1515542015	F9M33		1397527
	COMMENTS: 1515542										
SU73C016	06/09/2015 01:14	CQC	SCLPSS	17	23.13	1	SOIL	1515542016	F9M34		1084699
	COMMENTS: 1515542										
SU74C017	06/09/2015 01:44	CQC	SCLPSS	18	23.13	1	SOIL	1515542017	F9M35		1171757
	COMMENTS: 1515542										
SU75R012	06/09/2015 02:14	CQC	SCLPSS	19	23.14	1	SOIL	1515542012RE	F9M30RE		1126172
	COMMENTS: 1515542										
SU76F50	06/09/2015 02:43	CQC	SCLPSS	20	23.15	1	SOIL	VSTD050S2	VSTD050S2	50 u	1370366
	COMMENTS: 2.5 uL of 28198, 28199										
SU77F50	06/09/2015 03:14	CQC	SCLPSS	21	23.12	1	SOIL	VSTD050SX	VSTD050SX	50 u	1443825
	COMMENTS: 2.5 uL of 28198, 28199										
SU78F50	06/09/2015 03:43	CQC	SCLPSS	22	23.15	1	SOIL	VSTD050SX	VSTD050SX	50 u	1448439
	COMMENTS: 2.5 uL of 28198, 28199										

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SU79BFB	06/09/2015 16:32	CQC	SCLPSS	1	23.13	1	SOIL	BFBS2	50 ng BFB		0
	COMMENTS: 2.0 uL of 28268										
SU80S50	06/09/2015 17:03	CQC	SCLPSS	2	23.12	1	SOIL	VSTD050S3	VSTD050S3	50 u	1733598
	COMMENTS: 2.5 uL of 28198, 28199; 2.0 uL of 28268										
SU81BLK	06/09/2015 17:35	CQC	SCLPSS	3	23.11	1	SOIL	450611/450812/450814		V	1670353
	COMMENTS: 2.5 uL of 28198										
SU82C018	06/09/2015 18:09	CQC	SCLPSS	4	23.14	1	SOIL	1515542018	F9M37		1686153
	COMMENTS: 1515542										
SU83C019	06/09/2015 18:41	CQC	SCLPSS	5	23.12	1	SOIL	1515542019	F9M38		1620634
	COMMENTS: 1515542										
SU84C020	06/09/2015 19:13	CQC	SCLPSS	6	23.13	1	SOIL	1515542020	F9M39		1500484
	COMMENTS: 1515542										
SU85C021	06/09/2015 19:45	CQC	SCLPSS	7	23.15	1	SOIL	1515542021	F9M40		1622507
	COMMENTS: 1515542										
SU86C022	06/09/2015 20:17	CQC	SCLPSS	8	23.12	1	SOIL	1515542022	F9M41		1637908
	COMMENTS: 1515542										
SU87C001	06/09/2015 20:48	CQC	SCLPSS	9	23.13	1	SOIL	1515552001	F9M36		1687826
	COMMENTS: 1515552										
SU88C004	06/09/2015 21:20	CQC	SCLPSS	10	23.12	1	SOIL	1515552004	F9M42		1655979
	COMMENTS: 1515552										
SU89C005	06/09/2015 21:51	CQC	SCLPSS	11	23.09	1	SOIL	1515552005	F9M43		1550522
	COMMENTS: 1515552										
SU90C006	06/09/2015 22:21	CQC	SCLPSS	12	23.12	1	SOIL	1515552006	F9M44		1323850
	COMMENTS: 1515552										
SU91C007	06/09/2015 22:51	CQC	SCLPSS	13	23.13	1	SOIL	1515552007	F9M45		1400993
	COMMENTS: 1515552										
SU92C001	06/09/2015 23:22	CQC	SCLPSS	14	23.13	1	SOIL	1515380001	F9M15		1067376
	COMMENTS: 1515380										
SU93C004	06/09/2015 23:52	CQC	SCLPSS	15	23.13	1	SOIL	1515380004	F9M20		1286446
	COMMENTS: 1515380										
SU94R016	06/10/2015 00:22	CQC	SCLPSS	16	23.12	1	SOIL	1515542016RE	F9M34RE		1120408
	COMMENTS: 1515542										
SU95R020	06/10/2015 00:53	CQC	SCLPSS	17	23.12	1	SOIL	1515542020RE	F9M39RE		1013267
	COMMENTS: 1515542										
SU96R001	06/10/2015 01:24	CQC	SCLPSS	18	23.12	1	SOIL	1515552001	F9M36		1299741
	COMMENTS: 1515552										
SU97R006	06/10/2015 01:55	CQC	SCLPSS	19	23.14	1	SOIL	1515552006	F9M44		1098343
	COMMENTS: 1515552										
SU98HBLK	06/10/2015 02:26	CQC	SCLPSS	20	23.15	1	SOIL	450612/450813	VHBLKS1		1339343
	COMMENTS: 2.5 uL of 28198										
SU99F50	06/10/2015 02:57	CQC	SCLPSS	21	23.16	1	SOIL	VSTD050S4	VSTD050S4	50 u	1459258
	COMMENTS: 2.5 uL of 28198, 28199										
SV00F50	06/10/2015 03:27	CQC	SCLPSS	22	23.14	1	SOIL	VSTD050SX	VSTD050SX	50 u	1538748
	COMMENTS: 2.5 uL of 28198, 28199										
SV01F50	06/10/2015 03:57	CQC	SCLPSS	23	23.11	1	SOIL	VSTD050SX	VSTD050SX	50 u	1634660
	COMMENTS: 2.5 uL of 28198, 28199										

STANDARD REPORT

Working Standard - 4-BFB

4-BFB — Description - 4-Bromofluorobenzene

Standard: 27660 | Created By: C. Coleman | Amount: 5 mL
MFG: | Create Date: 04/06/2015 | Expires: 06/07/2015
MFG Lot: CH-3248 | Lab Lot: 4-BFB CH-3248 | Usable: Yes
Part ID:

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 | Amount:
MFG: Ultra Scalntific | Create Date: 1/22/2014 | Expires: 11/30/2015
MFG Lot: CH-3248 | Lab Lot: BFB CH-3248 | Usable: Yes
Part ID:

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 | 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

Working Standard - 4-BFB

4-BFB — Description - 4-Bromofluorobenzene

Standard: 28268 | Created By: C. Coleman | Amount: 5 mL
MFG: | Create Date: 06/05/2015 | Expires: 08/06/2015
MFG Lot: CH-3248 | Lab Lot: 4-BFB CH-3248 | Usable: Yes
Part ID:

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	Amount:
MFG: Ultra Scientific	Create Date: 1/22/2014	Expires: 11/30/2016
MFG Lot: CH-3248	Lab Lot: BFB CH-3248	Usable: Yes
Part ID:		

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	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

Working Standard - CLPIstdOnly

CLPIstdOnly	Description - CLP Internal Standard Only	
Standard: 28196	Created By: C. Coleman	Amount: 2 mL
MFG:	Create Date: 05/29/2015	Expires: 06/28/2016
MFG Lot:	Lab Lot: CLP Istd Only	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

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	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			

01215

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(d8)	1,2-Dichloropropane-d6	100 ug/mL
8	93951-88-1	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	24313-50-8	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: 84156		

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: 84155		

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	19199-91-8	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: 26059	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: 94166		

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: 84155		

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: 26058	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 - 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	76-35-4	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	68-23-5	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
20028	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

91229

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: 94159		

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	76-27-4	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: 94159		

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: 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 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

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	09/30/2015
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		Amount:
MFG: Ultra Scientific	Create Date: 2/12/2014		Expires: 9/30/2015
MFG Lot: CH-1788A	Lab Lot: CLP MS CH-1788A		Usable: Yes
Part ID:			

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		Amount: 25 mL
MFG: Ultra Scientific	Create Date: 05/29/2015		Expires: 06/29/2015
MFG Lot: CH-1788A	Lab Lot: CLP Med M.S.CH-1788A		Usable: Yes
Part ID:			

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		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		Amount:
MFG: Ultra Scientific	Create Date: 2/12/2014		Expires: 9/30/2015
MFG Lot: CH-1788A	Lab Lot: CLP MS CH-1788A		Usable: Yes
Part ID:			

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

9-1131
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Certified Reference Material CRM

ISO 9001 QS Registered
ISO 17025-34-35-43 Accredited
Scopes: http://AbsoluteStandards.com

IED WEIGHT REPORT

Part Number:	94155	Solvent(s):	DG598 Methanol
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		

Lot #

Formulated By: Paul Barron 011614 DATE

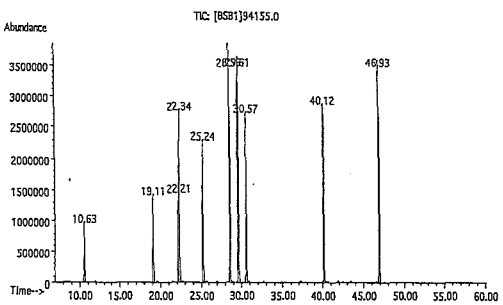
Reviewed By: Pedro L. Rentas 011614 DATE

5E-05 Balance Uncertainty

eight(s) shown below were combined and diluted to (mL): 100.0 0.001 Flask Uncertainty

MSDS Information (Solvent Safety Info. On Attached pg.)

ompound	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
nzene-d6	26	4605DKDK	2000	99	0.2	0.20204	0.20220	2001.8	0.0041	01076-43-3	1 ppm (8H)	N/A
loroform-d	2558	V210P1	2000	99.8	0.2	0.20042	0.20085	2002.3	0.0040	00865-49-6	N/A	orl-hmn 140mg/kg
2-Dichlorobenzene-d4	128	PR-18653/12307DB2	2000	99	0.2	0.20204	0.20224	2002.0	0.0041	02199-69-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
2-Dichloroethane-d4	137	V288P18	2000	99.6	0.2	0.20082	0.20100	2001.8	0.0040	17060-07-0	N/A	orl-mus 825mg/kg
1-Dichloroethane-d2	2047	W151P5	2000	99	0.2	0.20204	0.20230	2002.6	0.0041	22280-73-5	N/A	N/A
2-Dichloropropane-d6	2051	L283P25	2000	99.7	0.2	0.20062	0.20090	2002.8	0.0040	93952-08-6	N/A	orl-rat 1947mg/kg
s,trans-1,3-Dichloropropene-d4	2052	Z181P6	2000	40.9	0.2	0.48905	0.48930	2001.0	0.0098	202656-23-3	N/A	orl-rat 470mg/kg
1,2,2-Tetrachloroethane-d2	2053	F465P1	2000	99.6	0.2	0.20082	0.20105	2002.3	0.0040	33685-54-0	N/A	orl-rat 800mg/kg
oluene-d8	282	6D-549	2000	99.5	0.2	0.20103	0.20130	2002.7	0.0041	02037-26-5	200 ppm	orl-rat 5000mg/kg



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-Dichloroethane-d2	19.11
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

S 22415

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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.

S 250 Smith Street North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
www.ultrasci.com

Quality Assurance Manager

Certificate of Analysis

4-Bromofluorobenzene Solution

Product Number:	STS-110N	Page:	1 of 1
Lot Number:	CH-3248	Lot Issue Date:	07-Oct-2011
		Expiration Date:	30-Nov-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
4-bromofluorobenzene	000460-00-4	RM03355	2005 ± 10 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

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D WEIGHT REPORT

Part Number:	84157	Lot #	Solvent(s):
Lot Number:	080414	DK010	Methanol (90%)
Description:	CLP SOM 01.1 DMC Ketones	072414	Water (10%)
	2 components		
Expiration Date:	080417		
Recommended Storage:	Refrigerate (4 °C)		
Nominal Concentration (µg/mL):	2500		

Formulated By: Gabriel Helland 080414 DATE

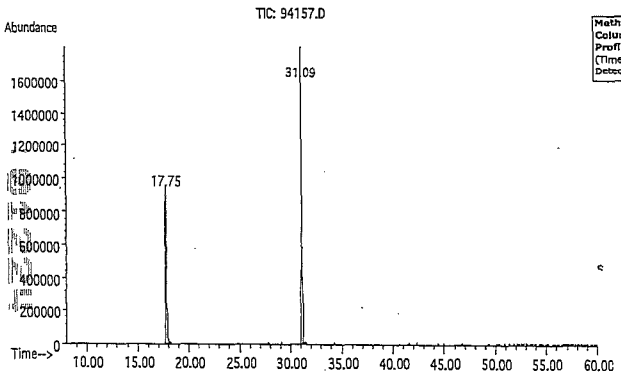
Reviewed By: Pedro L. Rentas 080414 DATE

5E-05 Balance Uncertainty

ht(s) shown below were combined and diluted to (mL): 100.0 0.008 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
tanone-1,1,1,3,3-d5	2557	M276P7	2500	99	0.2	0.25254	0.25268	2501.4	0.0041	24313-50-6	N/A	orl-rat 2737mg/kg
xanone-1,1,1,3,3-d5	2558	S186P26	2500	98.5	0.2	0.25382	0.25419	2503.6	0.0041	04840-82-8	N/A	orl-rat 2500mg/kg



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 #	Solvent(s):
Lot Number:	080811	DD846	Methanol
Description:	CLP Volatiles - Low Concentration Internal Standard		
	3 components		
Expiration Date:	080816		
	Storage: 4 °C		
Nominal Concentration (µg/mL):	2500		

Formulated By: Justin Dippold 080811 DATE

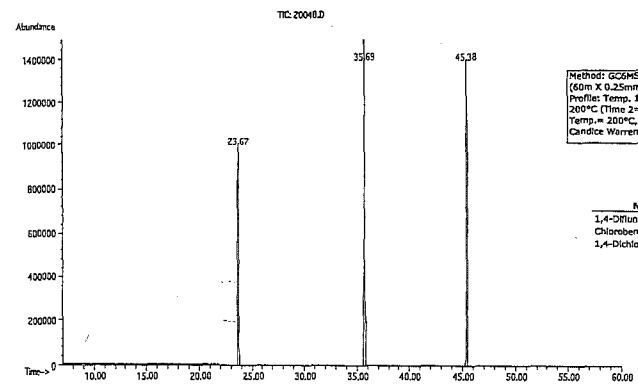
Reviewed By: Pedro L. Rentas 080811 DATE

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	V581P28	2500	99.3	0.2	0.25173	0.25220	2504.7	0.00405	03114-55-4	N/A	orl-rat 1110mg/kg
2. 1,4-Dichlorobenzene-d4	118	PR-18488/07207DB1	2500	98	0.2	0.25507	0.25537	2502.9	0.00410	03855-82-1	75 ppm	orl-mu 500mg/kg
3. 1,4-Difluorobenzene	155	13105AO	2500	99	0.2	0.25249	0.25271	2502.1	0.00408	00540-36-3	N/A	N/A



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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RTIFIED WEIGHT REPORT

Part Number: 30059
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
1. Bromomethane	50	01611JX	2000	99.5	0.2	1.00475	1.0089	2004.3	0.00403	00074-83-9	5 ppm (20mg/m3/8H) (skin)	orl-rat 214mg/kg
2. 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
3. Chloromethane	79	06806MS	2000	99.5	0.2	1.00475	1.0117	2013.8	0.00403	00074-87-3	100 ppm	orl-rat 1800mg/kg
4. 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
5. Trichlorofluoromethane	284	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
6. Vinyl chloride	305	1281833 21308138	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, "P30059 L010213 [2000µg/mL in MeOH]"

Run Length: 15.00 min, 8999 points at 10 points/second.
Created: Wed, Jan 2, 2013 at 5:07:03 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., Hydrogen (make-up) = 100mL/min.
Oven Profile: Temp. 1 = 35°C (Time 1 = 0 min.). Temp 2 = 200°C (Time 2 = 1 min.).
Rate = 35°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	5.34
Bromomethane	7.67
Chloroethane	7.93
Trichlorofluoromethane	8.76

* +/- 20%CRM

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t # 3005L Lot # 010213 1

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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; 0.008 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-596	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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art # 94158 Lot # 080414 1 of 2

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CERTIFIED WEIGHT REPORT

Part Number: 94159
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)(9ms	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	2000.6	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 836mg/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	20006.8	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. Cyclohexene	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	0.00416	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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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	10053.8	2010.8	0.00409	06745-35-3	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 705 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow = 150mL/min., Helium (carrier) = 10mL/min.,
Helium (make-up) = 40mL/min., Hydrogen (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

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Part # 94156 Lot # 022315

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

Volatiles Matrix Spiking Solution

Product Number: CLP-100N
Lot Number: CH-1788A
Lot Issue Date: 19-Aug-2013
Page: 1 of 1
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	34087	1004 ± 5 µg/mL
chlorobenzene	000108-90-7	07774MG	1004 ± 5 µg/mL
1,1-dichloroethene	000075-35-4	02226CH	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 8001, and calibrated Class A glassware in the manufacturing of these standards.

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22428

William S. Leahy
Quality Assurance Manager

ISO 9001 Registered
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250 Smith Street, North Kingstown, RI 02852 USA
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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

Weight(s) shown below were combined and diluted to: 100.0 g, 5E-05 Balance Uncertainty, 0.001 Flask Uncertainty

MSDS Information (Solvent Safety Info. On Attached pg.)

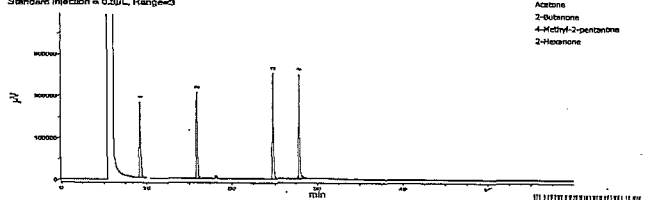
Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1. Acetone	4	094848H	20000	99.5	0.2	2.01026	2.01120	20009.4	0.00402	00067-64-1	750 ppm	orl-rat 5800mg/kg
2. 2-Butanone (Methyl ethyl ketone)	53	4605EL	20000	99.8	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	2.04193	2.04250	20014.5	0.00408	00591-78-6	100 ppm (410mg/m3/8H)	orl-rat 2590mg/kg
4. 4-Methyl-2-pentanone	210	09861PH	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, "PB2492 L092713 [20mg/mL in M:W(9:1)] 25hr1r10"

Run Length: 60.00 min, 36998 points at 10 points/second.
Created: Sat, Sep 28, 2013 at 10:36:26 AM.
Sampled: Sequence "092913-GC13M1", 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)=1mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=200mL/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 = Edeq Channel 1
Standard injection = 0.5µL, Range=3

Name	FID RT (min.)
Acetone	9.23
2-Butanone	15.90
4-Methyl-2-pentanone	24.84
2-Hexanone	27.89



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22414

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ISO 9001 QS Registered
ISO 17025-34-35-43 Accredited
Scopes: http://AbsoluteStandards.com

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

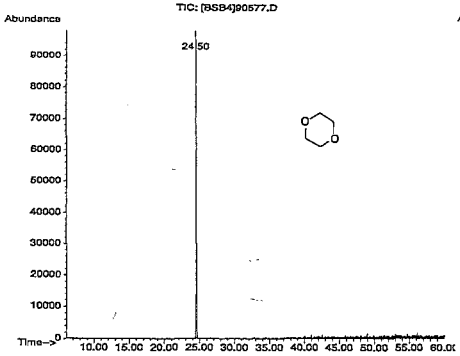
Reviewed By: Pedro L. Rentas 121410 DATE

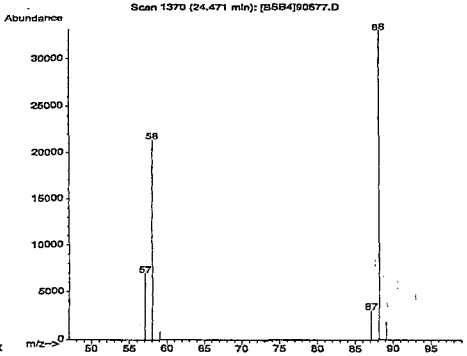
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to: 100.0 g, 0.002 Flask Uncertainty

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. 1,4-Dioxane	373	03853KE	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 GC/MSD-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.





STANDARD REPORT

Working Standard - 4-BFB

4-BFB — Description - 4-Bromofluorobenzene

Standard: 27660 | Created By: C. Coleman | Amount: 5 mL
MFG: | Create Date: 04/08/2015 | Expires: 06/07/2015
MFG Lot: CH-3248 | Lab Lot: 4-BFB CH-3248 | Usable: Yes
Part ID:

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 | Amount:
MFG: Ultra Scientific | Create Date: 1/22/2014 | Expires: 11/30/2015
MFG Lot: CH-3248 | Lab Lot: BFB CH-3248 | Usable: Yes
Part ID:

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 | 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

Working Standard - 4-BFB

4-BFB — Description - 4-Bromofluorobenzene

Standard: 28268 | Created By: C. Coleman | Amount: 5 mL
MFG: | Create Date: 06/06/2015 | Expires: 08/06/2015
MFG Lot: CH-3248 | Lab Lot: 4-BFB CH-3248 | Usable: Yes
Part ID:

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	Amount:
MFG: Ultra Scientific	Create Date: 1/22/2014	Expires: 11/30/2015
MFG Lot: CH-3248	Lab Lot: BFB CH-3248	Usable: Yes
Part ID:		

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	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

Working Standard - CLPIstdOnly

CLPIstdOnly		Description - CLP Internal Standard Only
Standard: 28196	Created By: C. Coleman	Amount: 2 mL
MFG:	Create Date: 05/29/2015	Expires: 06/29/2015
MFG Lot:	Lab Lot: CLP Istd Only	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

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	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

Working Standard - CLPDMCOnly

CLPDMCOnly		Description - CLP DMC Only
Standard: 28197	Created By: C. Coleman	Amount: 2 mL
MFG:	Create Date: 05/28/2015	Expires: 05/28/2015
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	22260-73-5	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	1.612 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: BAJ	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: 3/3/2016	Expires: 2/23/2018
MFG Lot: 022315	Lab Lot: CLP DMC Gas 022316	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: 94155		

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	22260-73-5	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	24313-50-6	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: 08/29/2015
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	22260-73-5	1,1-Dichloroethene-d2	100 ug/mL
10	78-87-5(d6)	1,2-Dichloropropane-d6	100 ug/mL
11	93951-88-1	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	19199-91-8	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
13358	CLP ISTD	EPA CLP Istd Stock	CLP Istd 080611	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: 84165

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	22286-73-5	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: 060414 | Lab Lot: CLP DMC Ket 060414 | 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 - CLP VOA

CLP VOA — Description - CLP VOA

Standard: 28199 | Created By: C. Coleman | Amount: 2 mL
MFG: | Create Date: 05/29/2015 | Expires: 06/29/2015
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: 05/29/2015 | Expires: 06/29/2015
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

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: 94159			

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

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: 94159			

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

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			

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: 8/27/2016
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

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	09/30/2015
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 | Amount:
MFG: Ultra Scientific | Create Date: 2/12/2014 | Expires: 9/30/2015
MFG Lot: CH-1788A | Lab Lot: CLP MS CH-1788A | Usable: Yes
Part ID:

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 | Amount: 25 mL
MFG: Ultra Scientific | Create Date: 05/29/2015 | Expires: 06/23/2015
MFG Lot: CH-1788A | Lab Lot: CLP Med M.S.CH-1788A | Usable: Yes
Part ID:

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 | 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 | Amount:
MFG: Ultra Scientific | Create Date: 2/12/2014 | Expires: 9/30/2015
MFG Lot: CH-1788A | Lab Lot: CLP MS CH-1788A | Usable: Yes
Part ID:

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

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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 (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
4-bromofluorobenzene	000460-00-4	RM03385	2005 ± 10 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.

Quality Assurance Manager
William J. Leahy

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IED WEIGHT REPORT

Lot #

Part Number:	94155	Solvent(s):	DG598	Methanol
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			

5E-05 Balance Uncertainty

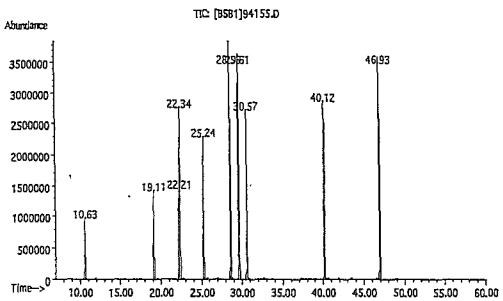
Weight(s) shown below were combined and diluted to (mL): 100.0 0.001 Flask Uncertainty

Formulated By: Paul Barron 011614 DATE

Reviewed By: Pedro L. Rentas 011614 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
enzene-d6	26	4605DKDK	2000	99	0.2	0.20204	0.20220	2001.6	0.0041	01076-43-3	1 ppm (8H)	N/A
hloroform-d	2556	V210P1	2000	99.8	0.2	0.20042	0.20085	2002.3	0.0040	00865-49-6	N/A	orl-hmn 140mg/kg
2-Dichlorobenzene-d4	128	PR-18653/1220TDB2	2000	99	0.2	0.20204	0.20224	2002.0	0.0041	02199-69-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
2-Dichloroethane-d4	137	V298P18	2000	99.6	0.2	0.20082	0.20100	2001.8	0.0040	17060-07-0	N/A	orl-mus 625mg/kg
1-Dichloroethene-d2	2047	W151P5	2000	99	0.2	0.20204	0.20230	2002.6	0.0041	22286-73-5	N/A	N/A
2-Dichloropropane-d6	2051	L283P25	2000	99.7	0.2	0.20082	0.20090	2002.8	0.0040	93952-08-0	N/A	orl-rat 1947mg/kg
s,trans-1,3-Dichloropropene-d4	2052	Z181P8	2000	40.9	0.2	0.48905	0.48930	2001.0	0.0098	202656-23-3	N/A	orl-rat 470mg/kg
1,2,2-Tetrachloroethane-d2	2053	F465P1	2000	99.6	0.2	0.20082	0.20105	2002.3	0.0040	33685-54-0	N/A	orl-rat 800mg/kg
oluene-d8	282	6D-549	2000	99.5	0.2	0.20103	0.20130	2002.7	0.0041	02037-26-5	200 ppm	orl-rat 5000mg/kg



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	18.61
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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D WEIGHT REPORT

Lot # Solvent(s):

Part Number:	94157	DK010	Methanol	(90%)
Lot Number:	080414	072414	Water	(10%)
Description:	CLP SOM 01.1 DMC Ketones			
	2 components			
Expiration Date:	080417			
Recommended Storage:	Refrigerate (4 °C)			
Nominal Concentration (µg/mL):	2500			

5E-05 Balance Uncertainty

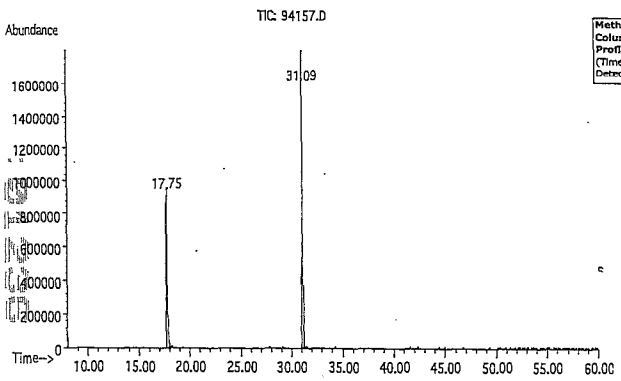
ght(s) shown below were combined and diluted to (mL): 100.0 0.008 Flask Uncertainty

Formulated By: Gabriel Holland 080414 DATE

Reviewed By: Pedro L. Rentas 080414 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
ftanone-1,1,1,3,3-d5	2557	M276P7	2500	99	0.2	0.25254	0.25208	2501.4	0.0041	24312-50-6	N/A	orl-rat 2737mg/kg
exanone-1,1,1,3,3-d5	2558	S186P26	2500	98.5	0.2	0.25382	0.25419	2503.8	0.0041	04840-82-8	N/A	orl-rat 2590mg/kg



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

Lot #

Part Number:	20048	Solvent(s):	DD946	Methanol
Lot Number:	080811			
Description:	CLP Volatiles - Low Concentration Internal Standard			
	3 components			
Expiration Date:	080816			
	Storage: 4 °C			
Nominal Concentration (µg/mL):	2500			

5E-05 Balance Uncertainty

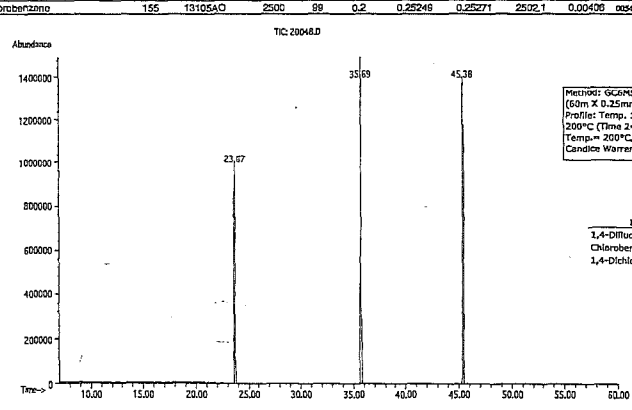
Weight(s) shown below were combined and diluted to: 100.0 0.002 Flask Uncertainty

Formulated By: Justin Dippold 080811 DATE

Reviewed By: Pedro L. Rentas 080811 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. Chlorobenzene-d5	69	V581P26	2500	99.3	0.2	0.25173	0.25220	2504.7	0.00405	03114-55-4	N/A	orl-rat 1110mg/kg
2. 1,4-Dichlorobenzene-d4	116	PR-18488/0720TCB1	2500	98	0.2	0.25507	0.25537	2502.9	0.00410	03855-82-1	75 ppm	orl-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



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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RTIFIED 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. 010213 DATE
Reviewed By: Pedro L. Rentas 010213 DATE

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	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Bromomethane	50	01611JX	2000	99.5	0.2	1.00475	1.0059	2004.3	0.00403	00074-83-9	5 ppm (20mg/m3/8H) (skin)	orl-rat 214mg/kg
2. 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
3. Chloromethane	79	06906MS	2000	99.5	0.2	1.00475	1.0117	2013.8	0.00403	00074-87-3	100 ppm	orl-rat 1800mg/kg
4. 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
5. 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
6. 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

Run 6, "P30058 L010213 [2000µg/mL in MeOH]"

Run Length: 15.00 min, 8999 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., Hydrogen (make-up) = 100mL/min.
Oven Profile: Temp. 1 = 35°C (Time 1 = 0 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 FID 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

S 23090

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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 080414 DATE
Reviewed By: Pedro L. Rentas 080414 DATE

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	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dioxane-d8	1882	11C-586	31250	99	0.2	0.78919	0.78922	31251.2	0.0041	17647-74-4	N/A .	orl-rbt 2000mg/kg

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.

26069

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CERTIFIED WEIGHT REPORT

Part Number: 94159
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 040213 DATE
Reviewed By: Pedro L. Rentas 040213 DATE

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. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty (+/-)	MSDS Information (Solvent Safety Info. On Attached pg.) 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	20020.8	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	10006.1	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	2000.8	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-Dichloroethane	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)(fma	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	20002.8	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	2000.6	0.00420	00106-93-4	20 ppm (8H)	orl-rat 108mg/kg
22. 1[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-Dichloropropane	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 836mg/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	20006.6	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

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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. 022315 DATE
Reviewed By: Pedro L. Rentas 022315 DATE

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 (+/-)	MSDS Information (Solvent Safety Info. On Attached pg.) 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

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., Hydrogen (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 FID Signal = Edaq Channel 2
Standard Injection = 0.5µL, Range=4 Purge Valve = 0 min

S 27293

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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	02226CH	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.

Weijohn D Lee
Quality Assurance Manager

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CERTIFIED WEIGHT REPORT

		Lot #		
Part Number:	82492	Solvent(s):	DG596	Methanol (90%)
Lot Number:	092713		063013	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

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to: 100.0 0.001 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)	MSDS Information (Solvent Safety Info. On Attached pg.) LD50
1. Acetone	4	09484BH	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	98.9	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, "PB2492 L092713 [20mg/mL in MeW(9:1)] 2ml r10"
Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Sep 28, 2013 at 10:39:26 AM.
Sampled: Sequence "092813-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)=200mL/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 = Edeq (Channel 1)
Standard injection = 0.0µL, Range=3

Name	FID RT (min.)
Acetone	9.33
2-Butanone	15.90
4-Methyl-2-pentanone	24.84
2-Hexanone	27.89

S 22414

Part # 82492 # 092713 1 of Printed: 10/4/2013, 11:17:34 AM

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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

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to: 100.0 0.002 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)	MSDS Information (Solvent Safety Info. On Attached pg.) LD50
1. 1,4-Dioxane	373	03853KE	20000	99	0.2	2.01894	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.

Part # 90577 Lot # 121410 1 of 2 Printed: 6/23/2012, 12:37:24 PM

Batch Worklist

Batch: ESVO/ 4986 Created: 6/17/2015 10:14 Instrument: 5975-G HBN: 150689

Rule: SOM SVOA, Soil Analyst: S. Yourstone Status: WP

Workorder: 1515542 SDG: F9M21 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	450193	MB for HBN 149947 [ENVX/21738]	30 grams	.5 mL		MB	4		SOMSVOAS.4	6158	7/19/2015	6/23/2015	6/17/2015
2	1515542001	F9M21	30.12 grams	.5 mL		SAMPLE	4	1515542001-A	S12SVOAS.4	5936	7/19/2015	6/23/2015	6/17/2015
3	1515542002	F9M22	30.01 grams	.5 mL		SAMPLE	4	1515542002-A	S12SVOAS.4	5936	7/19/2015	6/23/2015	6/17/2015
4	1515542003	F9M23	30.02 grams	.5 mL		SAMPLE	4	1515542003-A	S12SVOAS.4	5936	7/19/2015	6/23/2015	6/17/2015
5	1515542004	F9M24	30.13 grams	.5 mL		SAMPLE	4	1515542004-A	S12SVOAS.4	5936	7/19/2015	6/23/2015	6/17/2015
6	1515542005	F9M25	30.38 grams	.5 mL		SAMPLE	4	1515542005-A	S12SVOAS.4	5936	7/19/2015	6/23/2015	6/17/2015
7	1515542006	F9M26	30.13 grams	.5 mL		SAMPLE	4	1515542006-A	S12SVOAS.4	5936	7/19/2015	6/23/2015	6/17/2015
8	1515542007	F9M27	30.27 grams	.5 mL		SAMPLE	4	1515542007-A	S12SVOAS.4	5936	7/19/2015	6/23/2015	6/17/2015
9	1515542010	F9M28	30.07 grams	.5 mL		SAMPLE	4	1515542010-A	S12SVOAS.4	5936	7/19/2015	6/23/2015	6/17/2015
10	1515542011	F9M29	30.32 grams	.5 mL		SAMPLE	4	1515542011-A	S12SVOAS.4	5936	7/19/2015	6/23/2015	6/17/2015
11	1515542012	F9M30	30.23 grams	.5 mL		SAMPLE	4	1515542012-A	S12SVOAS.4	5936	7/19/2015	6/23/2015	6/17/2015
12	1515542013	F9M31	30.34 grams	.5 mL		SAMPLE	4	1515542013-A	S12SVOAS.4	5936	7/19/2015	6/23/2015	6/17/2015
13	1515542014	F9M32	30.32 grams	.5 mL		SAMPLE	4	1515542014-A	S12SVOAS.4	5936	7/19/2015	6/23/2015	6/17/2015
14	1515542015	F9M33	30.37 grams	.5 mL		SAMPLE	4	1515542015-A	S12SVOAS.4	5936	7/19/2015	6/23/2015	6/17/2015
15	1515542016	F9M34	30.21 grams	.5 mL		SAMPLE	4	1515542016-A	S12SVOAS.4	5936	7/19/2015	6/23/2015	6/17/2015
16	1515542017	F9M35	30.36 grams	.5 mL		SAMPLE	4	1515542017-A	S12SVOAS.4	5936	7/19/2015	6/23/2015	6/17/2015
17	1515542018	F9M37	30.35 grams	.5 mL		SAMPLE	4	1515542018-A	S12SVOAS.4	5936	7/19/2015	6/23/2015	6/17/2015
18	1515542019	F9M38	30.2 grams	.5 mL		SAMPLE	4	1515542019-A	S12SVOAS.4	5936	7/19/2015	6/23/2015	6/17/2015
19	1515542020	F9M39	30.13 grams	.5 mL		SAMPLE	4	1515542020-A	S12SVOAS.4	5936	7/19/2015	6/23/2015	6/17/2015
20	1515542021	F9M40	30.36 grams	.5 mL		SAMPLE	4	1515542021-A	S12SVOAS.4	5936	7/19/2015	6/23/2015	6/17/2015
21	1515542022	F9M41	30.02 grams	.5 mL		SAMPLE	4	1515542022-A	S12SVOAS.4	5936	7/19/2015	6/23/2015	6/17/2015

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
GAX01S20	05/27/2015 15:49	DJC	GSOM01D4	1	25.96	1	SSTD020GX 28165 DFTPPGX	X06/19/15
GAX02S05	05/27/2015 16:21	DJC	GSOM01D4	2	25.96	1	SSTD005GX 28167	X06/19/15
GAX03S10	05/27/2015 16:54	DJC	GSOM01D4	3	25.96	1	SSTD010GX 28168	X06/19/15
GAX04S10	05/27/2015 17:26	DJC	GSOM01D4	7	25.96	1	~~SSTD010GX~~	X06/19/15
GAX05S20	05/27/2015 17:58	DJC	GSOM01D4	6	25.96	1	~~SSTD020GX~~	X06/19/15
GAX06S40	05/27/2015 18:30	DJC	GSOM01D4	4	25.96	1	SSTD040GX 28170	X06/19/15
GAX07S80	05/27/2015 19:02	DJC	GSOM01D4	5	25.96	1	SSTD080GX 28171	X06/19/15

Bml Sim
#92
2 ml

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
GBK01S20	06/12/2015 13:51	DJC	GSOM01D4	1	25.96	1	SSTD020GK 28296 DFTPPGK	X06/19/15
GBK02S20	06/12/2015 16:39	DJC	GSOM01D4	1	25.96	1	SSTD020GK 28296 DFTPPGK	X06/19/15
GBK03BLK	06/12/2015 17:14	DJC	GSOM01D4	2	25.96	1	450193 SBLK93 Sim	SOIL SOM
GBK04GPC	06/12/2015 17:46	DJC	GSOM01D4	3	25.96	1	450810 GBLK10	SOIL SOM
GBK05F01	06/12/2015 18:19	DJC	GSOM01D4	4	25.96	1	1515542001 F9M21 (30) ✓	SOIL SOM
GBK06F02	06/12/2015 18:52	DJC	GSOM01D4	5	25.96	1	1515542002 F9M22 (10) ✓	SOIL SOM
GBK07F03	06/12/2015 19:24	DJC	GSOM01D4	6	25.96	1	1515542003 F9M23 (30) ⇒200	SOIL SOM
GBK08F04	06/12/2015 19:57	DJC	GSOM01D4	7	25.96	1	1515542004 F9M24 (30) ⇒60	SOIL SOM
GBK09F05	06/12/2015 20:29	DJC	GSOM01D4	8	25.96	1	1515542005 F9M25 (20) ✓	SOIL SOM
GBK10F06	06/12/2015 21:02	DJC	GSOM01D4	9	25.96	1	1515542006 F9M26 (20) ✓	SOIL SOM
GBK11F07	06/12/2015 21:34	DJC	GSOM01D4	10	25.96	1	1515542007 F9M27 (5) ✓	SOIL SOM
GBK12F10	06/12/2015 22:06	DJC	GSOM01D4	11	25.96	1	1515542010 F9M28 (10) ✓	SOIL SOM
GBK13F11	06/12/2015 22:38	DJC	GSOM01D4	12	25.96	1	1515542011 F9M29 (5) ✓	SOIL SOM
GBK14F12	06/12/2015 23:10	DJC	GSOM01D4	13	25.96	1	1515542012 F9M30 (5) ✓	SOIL SOM
GBK15F13	06/12/2015 23:42	DJC	GSOM01D4	14	25.96	1	1515542013 F9M31 (10) ✓	SOIL SOM
GBK16F14	06/13/2015 00:14	DJC	GSOM01D4	15	25.96	1	1515542014 F9M32 (10) ✓	SOIL SOM
GBK17F15	06/13/2015 00:46	DJC	GSOM01D4	16	25.96	1	1515542015 F9M33 (5) ✓	SOIL SOM
GBK18F16	06/13/2015 01:18	DJC	GSOM01D4	17	25.96	1	1515542016 F9M34 (10) ✓	SOIL SOM
GBK19F17	06/13/2015 01:50	DJC	GSOM01D4	18	25.96	1	1515542017 F9M35 (10) ✓	SOIL SOM
GBK20S20	06/13/2015 02:22	DJC	GSOM01D4	1	25.96	1	SSTD020K1 28296 DFTPPK1	X06/19/15
GBK21S20	06/13/2015 02:54	DJC	GSOM01D4	1	25.96	1	SSTD020K1 28296 DFTPPK1	X06/19/15
GBK22S20	06/13/2015 03:27	DJC	GSOM01D4	1	25.96	1	SSTD020K1 28296 DFTPPK1	X06/19/15
GBK23S20	06/13/2015 03:59	DJC	GSOM01D4	1	25.96	1	SSTD020K1 28296 DFTPPK1	X06/19/15
GBK24F18	06/13/2015 04:31	DJC	GSOM01D4	19	25.96	1	1515542018 F9M37 (10)-20	SOIL SOM
GBK25F19	06/13/2015 05:04	DJC	GSOM01D4	20	25.96	1	1515542019 F9M38 (10) ✓	SOIL SOM
GBK26F20	06/13/2015 05:36	DJC	GSOM01D4	21	25.96	1	1515542020 F9M39 (5) ✓	SOIL SOM
GBK27F21	06/13/2015 06:09	DJC	GSOM01D4	22	25.96	1	1515542021 F9M40 (10)-30	SOIL SOM
GBK28F22	06/13/2015 06:41	DJC	GSOM01D4	23	25.96	1	1515542022 F9M41 (5) ✓	SOIL SOM
GBK29S20	06/13/2015 07:14	DJC	GSOM01D4	24	25.96	1	SSTD020K2 28296 DFTPPK2	X06/19/15
GBK30S20	06/13/2015 07:47	DJC	GSOM01D4	24	25.96	1	SSTD020K2 28296 DFTPPK2	X06/19/15
GBK31S20	06/13/2015 08:20	DJC	GSOM01D4	24	25.96	1	SSTD020K2 28296 DFTPPK2	X06/19/15
GBK32S20	06/13/2015 08:53	DJC	GSOM01D4	24	25.96	1	SSTD020K2 28296 DFTPPK2	X06/19/15
GBK33S20	06/13/2015 09:26	DJC	GSOM01D4	24	25.96	1	SSTD020K2 28296 DFTPPK2	X06/19/15

Re-run

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
GBL01S20	06/15/2015 10:55	DJC	GSOM01D4	1	25.96	1	SSTD020GK 28296 DFTPPGL	X06/19/15
GBL02F18	06/15/2015 11:27	DJC	GSOM01D4	2	25.96	1	1515542018 F9M37 (10)	SOIL SOM
GBL03F19	06/15/2015 12:00	DJC	GSOM01D4	3	25.96	1	1515542019 F9M38 (10)	SOIL SOM
GBL04F20	06/15/2015 12:33	DJC	GSOM01D4	4	25.96	1	1515542020 F9M39 (5)	SOIL SOM
GBL05F21	06/15/2015 13:07	DJC	GSOM01D4	5	25.96	1	1515542021 F9M40 (10)	SOIL SOM
GBL06F22	06/15/2015 13:40	DJC	GSOM01D4	6	25.96	1	1515542022 F9M41 (5)	SOIL SOM
GBL07S20	06/15/2015 14:13	DJC	GSOM01D4	1	25.96	1	SSTD020L1 28296 DFTPPL1	X06/19/15
GBL08S20	06/15/2015 14:46	DJC	GSOM01D4	1	25.96	1	SSTD020L1 28296 DFTPPL1	X06/19/15
GBM01S20	06/15/2015 15:28	DJC	GSOM01D4	1	25.96	1	SSTD020GM 28296 DFTPPGM	X06/19/15
GBM02F18	06/15/2015 16:58	DJC	GSOM01D4	2	25.96	1	1515542018 F9M37 (10)	SOIL SOM
GBM03F19	06/15/2015 17:31	DJC	GSOM01D4	3	25.96	1	1515542019 F9M38 (10)	SOIL SOM
GBM04F20	06/15/2015 18:04	DJC	GSOM01D4	4	25.96	1	1515542020 F9M39 (5)	SOIL SOM
GBM05F21	06/15/2015 18:36	DJC	GSOM01D4	5	25.96	1	1515542021 F9M40 (10)	SOIL SOM
GBM06F22	06/15/2015 19:09	DJC	GSOM01D4	6	25.96	1	1515542022 F9M41 (5)	SOIL SOM
GBM07S20	06/15/2015 19:41	DJC	GSOM01D4	1	25.96	1	SSTD020M1 28296 DFTPPM1	X06/19/15
GBM08S20	06/15/2015 20:13	DJC	GSOM01D4	1	25.96	1	SSTD020M1 28296 DFTPPM1	X06/19/15
GBM09S20	06/15/2015 20:45	DJC	GSOM01D4	1	25.96	1	SSTD020M1 28296 DFTPPM1	X06/19/15
GBM10S20	06/15/2015 21:18	DJC	GSOM01D4	1	25.96	1	SSTD020M1 28296 DFTPPM1	X06/19/15

9/2/15

Batch Worklist

Batch: ENVX/ 21738 Created: 6/5/2015 07:19 Instrument: HBN: 149947

Rule: Sonication Extrn, SVOA Analyst: L. Edwards Status: NA

Workorder: 1515542 SDG: F9M21 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	450193	MB for HBN 149947 [ENVX/21738]		30.00g	0.5mL		MB	4		SNCTNSV.4P	6158	6/15/2015	6/4/2015	
2	1515542001	F9M21	30x	30.12g			SAMPLE	4	1515542001-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
3	1515542002	F9M22	10x	30.01g			SAMPLE	4	1515542002-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
4	1515542003	F9M23	30x	30.02g			SAMPLE	4	1515542003-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
5	1515542004	F9M24	30x	30.13g			SAMPLE	4	1515542004-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
6	1515542005	F9M25	20x	30.38g			SAMPLE	4	1515542005-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
7	1515542006	F9M26	20x	30.13g			SAMPLE	4	1515542006-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
8	1515542007	F9M27	5x	30.27g			SAMPLE	4	1515542007-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
9	1515542010	F9M28	10x	30.07g			SAMPLE	4	1515542010-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
10	1515542011	F9M29	5x	30.32g			SAMPLE	4	1515542011-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
11	1515542012	F9M30	5x	30.23g			SAMPLE	4	1515542012-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
12	1515542013	F9M31	10x	30.34g			SAMPLE	4	1515542013-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
13	1515542014	F9M32	10x	30.32g			SAMPLE	4	1515542014-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
14	1515542015	F9M33	5x	30.37g			SAMPLE	4	1515542015-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
15	1515542016	F9M34	10x	30.21g			SAMPLE	4	1515542016-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
16	1515542017	F9M35	10x	30.36g			SAMPLE	4	1515542017-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
17	1515542018	F9M37	10x	30.35g			SAMPLE	4	1515542018-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
18	1515542019	F9M38	10x	30.20g			SAMPLE	4	1515542019-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
19	1515542020	F9M39	5x	30.13g			SAMPLE	4	1515542020-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
20	1515542021	F9M40	10x	30.36g			SAMPLE	4	1515542021-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
21	1515542022	F9M41	5x	30.02g	1mL		SAMPLE	4	1515542022-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	

Sepno SV

ORGANIC EXTRACTION LOGBOOK ALS GROUP USA, Corp

Client US EPA REGION 6 Case/SDG # 45316 / F9M21 Horizon Extraction HBN 149947

Work Order# 151542 Sample #'s 1-7, 10-22 Extraction Method SOM0 1.2

SOP: OE-EP-SOM Analytical Fraction SV / SV-SIM Matrix SOIL

Date samples weighed out 6/8/15 by CDE balance # 120212065

See extraction batch sheet for sample weights/volumes, initial pH's (waters), and final concentration volumes.

Extraction: Date/Time 6/8/15 1100 Stop Date/Time (CLLE's/Soxlet) CDE Extracted by CDE

	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	JTBAKER	CDE	JTBAKER	B&J	
Lot Number	18985		18985 97623	DM245	
Amount	PERSOP		PERSOP	PERSOP	

	Surrogate/DMC STD	LCS Standard	MS/MSD Standard	RLVS Standard
Standard ID	27950	CDE	CDE	CDE
Spiked Amount	1mL			
Spiked By	CDE			

	Acid Solution	Base Solution		
Standard ID	CDE	CDE		
Spiked Amount *				
pH Adjustment *				
Spiked By				

* exceptions are noted in comments below

Comments

Pre-GPC Concentration: Date/Time 6/8/15 1300 by EP Comments TEMP WAS 73°C

Final Concentration: Date/Time 6/9/15 9:00 by mgr Comments The Temp was 65°C

Florisil (pesticides only) Date/Time — by — Florisil Column Lot # —

Comments

Checker Signature [signature] **Date** 6/9/15

Batch Worklist

Batch: ENVX/ 21770 Created: 6/9/2015 14:49 Instrument: GPC07 HBN: 150210

Rule: GPC SVOA Analyst: L. Edwards Status: NA

Workorder: 1515542 SDG: F9M21 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	450810	GB for HBN 150210 [ENVX/21770]				GB	4		E.GPC.SV.P	6158		6/10/2015	6/8/2015
2	450193	MB for HBN 149947 [ENVX/21738]	30 grams	.5 mL		MB	4		E.GPC.SV.P	6158		6/10/2015	6/8/2015
3	1515542001	F9M21	30.12 grams	.5 mL		SAMPLE	4	1515542001-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
4	1515542002	F9M22	30.01 grams	.5 mL		SAMPLE	4	1515542002-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
5	1515542003	F9M23	30.02 grams	.5 mL		SAMPLE	4	1515542003-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
6	1515542004	F9M24	30.13 grams	.5 mL		SAMPLE	4	1515542004-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
7	1515542005	F9M25	30.38 grams	.5 mL		SAMPLE	4	1515542005-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
8	1515542006	F9M26	30.13 grams	.5 mL		SAMPLE	4	1515542006-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
9	1515542007	F9M27	30.27 grams	.5 mL		SAMPLE	4	1515542007-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
10	1515542010	F9M28	30.07 grams	.5 mL		SAMPLE	4	1515542010-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
11	1515542011	F9M29	30.32 grams	.5 mL		SAMPLE	4	1515542011-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
12	1515542012	F9M30	30.23 grams	.5 mL		SAMPLE	4	1515542012-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
13	1515542013	F9M31	30.34 grams	.5 mL		SAMPLE	4	1515542013-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
14	1515542014	F9M32	30.32 grams	.5 mL		SAMPLE	4	1515542014-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
15	1515542015	F9M33	30.37 grams	.5 mL		SAMPLE	4	1515542015-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
16	1515542016	F9M34	30.21 grams	.5 mL		SAMPLE	4	1515542016-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
17	1515542017	F9M35	30.36 grams	.5 mL		SAMPLE	4	1515542017-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
18	1515542018	F9M37	30.35 grams	.5 mL		SAMPLE	4	1515542018-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
19	1515542019	F9M38	30.2 grams	.5 mL		SAMPLE	4	1515542019-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
20	1515542020	F9M39	30.13 grams	.5 mL		SAMPLE	4	1515542020-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
21	1515542021	F9M40	30.36 grams	.5 mL		SAMPLE	4	1515542021-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
22	1515542022	F9M41	30.02 grams	.5 mL		SAMPLE	4	1515542022-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015

ALS Laboratory Group GPC Injection Logbook

Method:	**SOM01.2**	**Analytical Method**	**SVOA**	**Work Order ID:**	**1515542**	**Horizon Batch ID:**	**150210**
Account:	**08201**	**Instrument ID:**	**GPC07**	**Column ID:**	**8171860-3 545929-11**	**Flow Rate:**	**5mL/min.**
Load Date:	**6/8/15**	**Load Time:**	**16:59**	**Pressure (PSI)**	**150**	**PST/ARO Weekly ID:**	

Position	ALS Sample ID	Client Sample ID	Sample Notes/Comments
1	450810	GPC07 Blank	
2	1515542001	F9M21	
3	1515542002	F9M22	
4	1515542003	F9M23	
5	1515542004	F9M24	
6	1515542005	F9M25	
7	1515542006	F9M26	
8	1515542007	F9M27	
9	1515542010	F9M28	
10	1515542011	F9M29	
11	1515542012	F9M30	
12	1515542013	F9M31	
13	1515542014	F9M32	
14	1515542015	F9M33	
15	1515542016	F9M34	
16	1515542017	F9M35	
17	1515542018	F9M37	
18	1515542019	F9M38	
19	1515542020	F9M39	
20	1515542021	F9M40	
21	1515542022	F9M41	
22	Rinse		Column Wash
23	450193	MB for HBN 149947	
24	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/ 4989 Created: 6/18/2015 09:19 Instrument: 5975-D HBN: 150784

Rule: SOM SVOA SIM, Soil Analyst: S. Yourstone Status: WP

Workorder: 1515542 SDG: F9M21 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	450193	MB for HBN 149947 [ENVX/21738]	30 grams	.5 mL		MB	4		SOMSVOASS4	6158	7/19/2015	6/23/2015	6/18/2015
2	1515542001	F9M21	30.12 grams	.5 mL		SAMPLE	4	1515542001-A	S12SVOASS4	5936	7/19/2015	6/23/2015	6/18/2015
3	1515542002	F9M22	30.01 grams	.5 mL		SAMPLE	4	1515542002-A	S12SVOASS4	5936	7/19/2015	6/23/2015	6/18/2015
4	1515542003	F9M23	30.02 grams	.5 mL		SAMPLE	4	1515542003-A	S12SVOASS4	5936	7/19/2015	6/23/2015	6/18/2015
5	1515542004	F9M24	30.13 grams	.5 mL		SAMPLE	4	1515542004-A	S12SVOASS4	5936	7/19/2015	6/23/2015	6/18/2015
6	1515542005	F9M25	30.38 grams	.5 mL		SAMPLE	4	1515542005-A	S12SVOASS4	5936	7/19/2015	6/23/2015	6/18/2015
7	1515542006	F9M26	30.13 grams	.5 mL		SAMPLE	4	1515542006-A	S12SVOASS4	5936	7/19/2015	6/23/2015	6/18/2015
8	1515542007	F9M27	30.27 grams	.5 mL		SAMPLE	4	1515542007-A	S12SVOASS4	5936	7/19/2015	6/23/2015	6/18/2015
9	1515542010	F9M28	30.07 grams	.5 mL		SAMPLE	4	1515542010-A	S12SVOASS4	5936	7/19/2015	6/23/2015	6/18/2015
10	1515542011	F9M29	30.32 grams	.5 mL		SAMPLE	4	1515542011-A	S12SVOASS4	5936	7/19/2015	6/23/2015	6/18/2015
11	1515542012	F9M30	30.23 grams	.5 mL		SAMPLE	4	1515542012-A	S12SVOASS4	5936	7/19/2015	6/23/2015	6/18/2015
12	1515542013	F9M31	30.34 grams	.5 mL		SAMPLE	4	1515542013-A	S12SVOASS4	5936	7/19/2015	6/23/2015	6/18/2015
13	1515542014	F9M32	30.32 grams	.5 mL		SAMPLE	4	1515542014-A	S12SVOASS4	5936	7/19/2015	6/23/2015	6/18/2015
14	1515542015	F9M33	30.37 grams	.5 mL		SAMPLE	4	1515542015-A	S12SVOASS4	5936	7/19/2015	6/23/2015	6/18/2015
15	1515542016	F9M34	30.21 grams	.5 mL		SAMPLE	4	1515542016-A	S12SVOASS4	5936	7/19/2015	6/23/2015	6/18/2015
16	1515542017	F9M35	30.36 grams	.5 mL		SAMPLE	4	1515542017-A	S12SVOASS4	5936	7/19/2015	6/23/2015	6/18/2015
17	1515542018	F9M37	30.35 grams	.5 mL		SAMPLE	4	1515542018-A	S12SVOASS4	5936	7/19/2015	6/23/2015	6/18/2015
18	1515542019	F9M38	30.2 grams	.5 mL		SAMPLE	4	1515542019-A	S12SVOASS4	5936	7/19/2015	6/23/2015	6/18/2015
19	1515542020	F9M39	30.13 grams	.5 mL		SAMPLE	4	1515542020-A	S12SVOASS4	5936	7/19/2015	6/23/2015	6/18/2015
20	1515542021	F9M40	30.36 grams	.5 mL		SAMPLE	4	1515542021-A	S12SVOASS4	5936	7/19/2015	6/23/2015	6/18/2015
21	1515542022	F9M41	30.02 grams	.5 mL		SAMPLE	4	1515542022-A	S12SVOASS4	5936	7/19/2015	6/23/2015	6/18/2015

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
DGB01SP4	06/15/2015 15:02	SY	DSOM_SIMJ2	1	24.66	1	SSTD0.4DB 28297	X6-19-15
DGB03BLK	06/15/2015 15:32	SY	DSOM_SIMJ2	2	24.66	1	450193 SBLK93	X6-19-15
DGB04GPC	06/15/2015 16:03	SY	DSOM_SIMJ2	3	24.66	1	450810 GBLK10	X6-19-15
DGB05F01	06/15/2015 16:33	SY	DSOM_SIMJ2	4	24.66	1	1515542001 F9M21 (30)	X6-19-15
DGB06F02	06/15/2015 17:03	SY	DSOM_SIMJ2	5	24.66	1	1515542002 F9M22 (10)	X6-19-15
DGB07F03	06/15/2015 17:33	SY	DSOM_SIMJ2	6	24.66	1	1515542003 F9M23 (200)	X6-19-15
DGB08F04	06/15/2015 18:04	SY	DSOM_SIMJ2	7	24.66	1	1515542004 F9M24 (60)	X6-19-15
DGB09F05	06/15/2015 18:34	SY	DSOM_SIMJ2	8	24.66	1	1515542005 F9M25 (20)	X6-19-15
DGB10F06	06/15/2015 19:04	SY	DSOM_SIMJ2	9	24.66	1	1515542006 F9M26 (20)	X6-19-15
DGB11F07	06/15/2015 19:33	SY	DSOM_SIMJ2	10	24.66	1	1515542007 F9M27 (5)	X6-19-15
DGB12F10	06/15/2015 20:03	SY	DSOM_SIMJ2	11	24.66	1	1515542010 F9M28 (10)	X6-19-15
DGB13F11	06/15/2015 20:33	SY	DSOM_SIMJ2	12	24.66	1	1515542011 F9M29 (5)	X6-19-15
DGB14F12	06/15/2015 21:03	SY	DSOM_SIMJ2	13	24.66	1	1515542012 F9M30 (5)	X6-19-15
DGB15F13	06/15/2015 21:32	SY	DSOM_SIMJ2	14	24.66	1	1515542013 F9M31 (10)	X6-19-15
DGB16F14	06/15/2015 22:02	SY	DSOM_SIMJ2	15	24.66	1	1515542014 F9M32 (10)	X6-19-15
DGB17F15	06/15/2015 22:32	SY	DSOM_SIMJ2	16	24.66	1	1515542015 F9M33 (5)	X6-19-15
DGB18F16	06/15/2015 23:01	SY	DSOM_SIMJ2	17	24.66	1	1515542016 F9M34 (10	X6-19-15
DGB19F17	06/15/2015 23:31	SY	DSOM_SIMJ2	18	24.66	1	1515542017 F9M35 (10)	X6-19-15
DGB20SP4	06/16/2015 00:01	SY	DSOM_SIMJ2	1	24.66	1	SSTD0.4D1 28297	X6-19-15
~~DGB21SP4~~	~~06/16/2015 00:30~~	~~SY~~	~~DSOM_SIMJ2~~	~~1~~	~~24.66~~	~~1~~	~~SSTD0.4D1 28297~~	X6-19-15
DGB22F18	06/16/2015 01:00	SY	DSOM_SIMJ2	19	24.66	1	1515542018 F9M37 (20)	X6-19-15
DGB23F19	06/16/2015 01:29	SY	DSOM_SIMJ2	20	24.66	1	1515542019 F9M38 (10)	X6-19-15
DGB24F20	06/16/2015 01:59	SY	DSOM_SIMJ2	21	24.66	1	1515542020 F9M39 (5)	X6-19-15
DGB25F21	06/16/2015 02:28	SY	DSOM_SIMJ2	22	24.66	1	1515542021 F9M40 (20)	X6-19-15
DGB26F22	06/16/2015 02:58	SY	DSOM_SIMJ2	23	24.66	1	1515542022 F9M41 (5)	X6-19-15
DGB27SP4	06/16/2015 03:28	SY	DSOM_SIMJ2	24	24.66	1	SSTD0.4D2 28297	X6-19-15
~~DGB28SP4~~	~~06/16/2015 03:57~~	~~SY~~	~~DSOM_SIMJ2~~	~~24~~	~~24.66~~	~~1~~	~~SSTD0.4D2 28297~~	X6-19-15
~~DGB29SP4~~	~~06/16/2015 04:27~~	~~SY~~	~~DSOM_SIMJ2~~	~~24~~	~~24.66~~	~~1~~	~~SSTD0.4D2 28297~~	X6-19-15
~~DGB30SP4~~	~~06/16/2015 04:57~~	~~SY~~	~~DSOM_SIMJ2~~	~~24~~	~~24.66~~	~~1~~	~~SSTD0.4D2 28297~~	X6-19-15

6525

Batch Worklist

Batch: ENVX/ 21738 **Created:** 6/5/2015 07:19 **Instrument:** **HBN:** 149947

Rule: Sonication Extrn, SVOA **Analyst:** L. Edwards **Status:** NA

Workorder: 1515542 **SDG:** F9M21 **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	450193	MB for HBN 149947 [ENVX/21738]		30.00g	0.5mL		MB	4		SNCTNSV.4P	6158	6/15/2015	6/4/2015	
2	1515542001	F9M21	30x	30.12g			SAMPLE	4	1515542001-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
3	1515542002	F9M22	10x	30.01g			SAMPLE	4	1515542002-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
4	1515542003	F9M23	30x	30.02g			SAMPLE	4	1515542003-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
5	1515542004	F9M24	30x	30.13g			SAMPLE	4	1515542004-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
6	1515542005	F9M25	20x	30.38g			SAMPLE	4	1515542005-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
7	1515542006	F9M26	20x	30.13g			SAMPLE	4	1515542006-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
8	1515542007	F9M27	5x	30.27g			SAMPLE	4	1515542007-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
9	1515542010	F9M28	10x	30.07g			SAMPLE	4	1515542010-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
10	1515542011	F9M29	5x	30.32g			SAMPLE	4	1515542011-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
11	1515542012	F9M30	5x	30.23g			SAMPLE	4	1515542012-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
12	1515542013	F9M31	10x	30.34g			SAMPLE	4	1515542013-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
13	1515542014	F9M32	10x	30.32g			SAMPLE	4	1515542014-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
14	1515542015	F9M33	5x	30.37g			SAMPLE	4	1515542015-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
15	1515542016	F9M34	10x	30.21g			SAMPLE	4	1515542016-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
16	1515542017	F9M35	10x	30.36g			SAMPLE	4	1515542017-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
17	1515542018	F9M37	10x	30.35g			SAMPLE	4	1515542018-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
18	1515542019	F9M38	10x	30.20g			SAMPLE	4	1515542019-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
19	1515542020	F9M39	5x	30.13g			SAMPLE	4	1515542020-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
20	1515542021	F9M40	10x	30.36g			SAMPLE	4	1515542021-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	
21	1515542022	F9M41	5x	30.02g			SAMPLE	4	1515542022-A	SNCTNSV.4P	5936	6/13/2015	6/4/2015	

Same SV

ORGANIC EXTRACTION LOGBOOK ALS GROUP USA, Corp

Client US EPA REGION 6 Case/SDG # 45316 / F9M21 Horizon Extraction HBN 149947

Work Order# 1515542 Sample #'s 1-7, 10-22 Extraction Method SOM01.2

SOP: OE-EP-SOM Analytical Fraction SV / SV-SIM Matrix SOIL

Date samples weighed out 6/8/15 by CE balance # 120212065

See extraction batch sheet for sample weights/volumes, initial pH's (waters), and final concentration volumes.

Extraction: Date/Time 6/8/15 1100 Stop Date/Time (CLLE's/Soxlet) CE Extracted by CE

	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	JTBAKER	CE	JTBAKER	B&J	
Lot Number	18985		13G185 47623	OM245	
Amount	PERSOP		PERSOP	PERSOP	

	Surrogate/DMC STD	LCS Standard	MS/MSD Standard	RLVS Standard
Standard ID	27950	CE	CE	CE
Spiked Amount	1mL			
Spiked By	CE			

	Acid Solution	Base Solution		
Standard ID	CE	CE		
Spiked Amount *				
pH Adjustment *				
Spiked By				

* exceptions are noted in comments below

Comments

Pre-GPC Concentration: Date/Time 6/8/15 1300 by EP Comments TEMP WAS 73°C

Final Concentration: Date/Time 6/9/15 9:00 by mjr Comments The Temp was 65°C

Florisil (pesticides only) Date/Time — by — Florisil Column Lot # —

Comments

Checker Signature [signature] Date 6/9/15

Batch Worklist

Batch: ENVX/ 21770 Created: 6/9/2015 14:49 Instrument: GPC07 HBN: 150210

Rule: GPC SVOA Analyst: L. Edwards Status: NA

Workorder: 1515542 SDG: F9M21 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	450810	GB for HBN 150210 [ENVX/21770]				GB	4		E.GPC.SV.P	6158		6/10/2015	6/8/2015
2	450193	MB for HBN 149947 [ENVX/21738]	30 grams	.5 mL		MB	4		E.GPC.SV.P	6158		6/10/2015	6/8/2015
3	1515542001	F9M21	30.12 grams	.5 mL		SAMPLE	4	1515542001-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
4	1515542002	F9M22	30.01 grams	.5 mL		SAMPLE	4	1515542002-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
5	1515542003	F9M23	30.02 grams	.5 mL		SAMPLE	4	1515542003-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
6	1515542004	F9M24	30.13 grams	.5 mL		SAMPLE	4	1515542004-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
7	1515542005	F9M25	30.38 grams	.5 mL		SAMPLE	4	1515542005-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
8	1515542006	F9M26	30.13 grams	.5 mL		SAMPLE	4	1515542006-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
9	1515542007	F9M27	30.27 grams	.5 mL		SAMPLE	4	1515542007-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
10	1515542010	F9M28	30.07 grams	.5 mL		SAMPLE	4	1515542010-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
11	1515542011	F9M29	30.32 grams	.5 mL		SAMPLE	4	1515542011-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
12	1515542012	F9M30	30.23 grams	.5 mL		SAMPLE	4	1515542012-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
13	1515542013	F9M31	30.34 grams	.5 mL		SAMPLE	4	1515542013-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
14	1515542014	F9M32	30.32 grams	.5 mL		SAMPLE	4	1515542014-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
15	1515542015	F9M33	30.37 grams	.5 mL		SAMPLE	4	1515542015-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
16	1515542016	F9M34	30.21 grams	.5 mL		SAMPLE	4	1515542016-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
17	1515542017	F9M35	30.36 grams	.5 mL		SAMPLE	4	1515542017-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
18	1515542018	F9M37	30.35 grams	.5 mL		SAMPLE	4	1515542018-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
19	1515542019	F9M38	30.2 grams	.5 mL		SAMPLE	4	1515542019-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
20	1515542020	F9M39	30.13 grams	.5 mL		SAMPLE	4	1515542020-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
21	1515542021	F9M40	30.36 grams	.5 mL		SAMPLE	4	1515542021-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015
22	1515542022	F9M41	30.02 grams	.5 mL		SAMPLE	4	1515542022-A	E.GPC.SV.P	5936		6/10/2015	6/8/2015

ALS Laboratory Group GPC Injection Logbook

Method:	**SOM01.2**	**Analytical Method**	**SVOA**	**Work Order ID:**	**1515542**	**Horizon Batch ID:**	**150210**
Account:	**08201**	**Instrument ID:**	**GPC07**	**Column ID:**	**8171860-3 545929-11**	**Flow Rate:**	**5mL/min.**
Load Date:	**6/8/15**	**Load Time:**	**16:59**	**Pressure (PSI)**	**150**	**PST/ARO Weekly ID:**	

Position	ALS Sample ID	Client Sample ID	Sample Notes/Comments
1	450810	GPC07 Blank	
2	1515542001	F9M21	
3	1515542002	F9M22	
4	1515542003	F9M23	
5	1515542004	F9M24	
6	1515542005	F9M25	
7	1515542006	F9M26	
8	1515542007	F9M27	
9	1515542010	F9M28	
10	1515542011	F9M29	
11	1515542012	F9M30	
12	1515542013	F9M31	
13	1515542014	F9M32	
14	1515542015	F9M33	
15	1515542016	F9M34	
16	1515542017	F9M35	
17	1515542018	F9M37	
18	1515542019	F9M38	
19	1515542020	F9M39	
20	1515542021	F9M40	
21	1515542022	F9M41	
22	Rinse		Column Wash
23	450193	MB for HBN 149947	
24	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/ 5813 Created: 6/20/2015 08:40 Instrument: HBN: 150927

Rule: SOM Pesticides, Soil Analyst: S. Sagers Status: WP

Workorder: 1515542 SDG: F9M21 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	450194	MB for HBN 149948 [ENVX/21739]	30 grams	5 mL		MB	4		SOMPESTS.4	6158	7/19/2015	6/23/2015	
2	450195	LCS-P for HBN 149948 [ENVX/217	30 grams	5 mL		LCS-P	4		SOMPESTS.4	6158	7/19/2015	6/23/2015	
3	1515542001	F9M21	30.03 grams	5 mL		SAMPLE	4	1515542001-A	S12PESTS.4	5936	7/19/2015	6/23/2015	
4	1515542002	F9M22	30.25 grams	5 mL		SAMPLE	4	1515542002-A	S12PESTS.4	5936	7/19/2015	6/23/2015	
5	1515542003	F9M23	30.46 grams	5 mL		SAMPLE	4	1515542003-A	S12PESTS.4	5936	7/19/2015	6/23/2015	
6	1515542004	F9M24	30.06 grams	5 mL		SAMPLE	4	1515542004-A	S12PESTS.4	5936	7/19/2015	6/23/2015	
7	1515542005	F9M25	30.25 grams	5 mL		SAMPLE	4	1515542005-A	S12PESTS.4	5936	7/19/2015	6/23/2015	
8	1515542006	F9M26	30.36 grams	5 mL		SAMPLE	4	1515542006-A	S12PESTS.4	5936	7/19/2015	6/23/2015	
9	1515542007	F9M27	30.1 grams	5 mL		SAMPLE	4	1515542007-A	S12PESTS.4	5936	7/19/2015	6/23/2015	
10	1515542008	F9M27MS	30.1 grams	5 mL		MS	4	1515542008-A	S12PESTS.4	5936	7/19/2015	6/23/2015	
11	1515542009	F9M27MSD	30.1 grams	5 mL		MSD	4	1515542009-A	S12PESTS.4	5936	7/19/2015	6/23/2015	
12	1515542010	F9M28	30.18 grams	5 mL		SAMPLE	4	1515542010-A	S12PESTS.4	5936	7/19/2015	6/23/2015	
13	1515542011	F9M29	30.15 grams	5 mL		SAMPLE	4	1515542011-A	S12PESTS.4	5936	7/19/2015	6/23/2015	
14	1515542012	F9M30	30.33 grams	5 mL		SAMPLE	4	1515542012-A	S12PESTS.4	5936	7/19/2015	6/23/2015	
15	1515542013	F9M31	30.33 grams	5 mL		SAMPLE	4	1515542013-A	S12PESTS.4	5936	7/19/2015	6/23/2015	
16	1515542014	F9M32	30.06 grams	5 mL		SAMPLE	4	1515542014-A	S12PESTS.4	5936	7/19/2015	6/23/2015	
17	1515542015	F9M33	30.15 grams	5 mL		SAMPLE	4	1515542015-A	S12PESTS.4	5936	7/19/2015	6/23/2015	
18	1515542016	F9M34	30.05 grams	5 mL		SAMPLE	4	1515542016-A	S12PESTS.4	5936	7/19/2015	6/23/2015	
19	1515542017	F9M35	30.05 grams	5 mL		SAMPLE	4	1515542017-A	S12PESTS.4	5936	7/19/2015	6/23/2015	
20	1515542018	F9M37	30.05 grams	5 mL		SAMPLE	4	1515542018-A	S12PESTS.4	5936	7/19/2015	6/23/2015	
21	1515542019	F9M38	30.31 grams	5 mL		SAMPLE	4	1515542019-A	S12PESTS.4	5936	7/19/2015	6/23/2015	
22	1515542020	F9M39	30.34 grams	5 mL		SAMPLE	4	1515542020-A	S12PESTS.4	5936	7/19/2015	6/23/2015	
23	1515542021	F9M40	30.2 grams	5 mL		SAMPLE	4	1515542021-A	S12PESTS.4	5936	7/19/2015	6/23/2015	
24	1515542022	F9M41	30.46 grams	5 mL		SAMPLE	4	1515542022-A	S12PESTS.4	5936	7/19/2015	6/23/2015	

GC/ECD PESTICIDES ANALYST WRITE-UP

Batch: EGC/ 5813 Created: 6/20/2015 08:40 Instrument: HBN: 150927

Rule: SOM Pesticides, Soil Analyst: S. Sagers Status: WP

Workorder: 1515542 SDG: F9M21 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date
1	450194	MB for HBN 149948 [ENVX/21739]	30 grams	5 mL		MB	4		SOMPEST8.4	6158	7/19/2015	6/23/2015
2	450195	LCS-P for HBN 149948 [ENVX/217	30 grams	5 mL		LCS-P	4		SOMPEST8.4	6158	7/19/2015	6/23/2015
3	1515542001	F9M21	30.03 grams	5 mL		SAMPLE	4	1515542001-A	SI2PEST8.4	5936	7/19/2015	6/23/2015
4	1515542002	F9M22	30.25 grams	5 mL		SAMPLE	4	1515542002-A	SI2PEST8.4	5936	7/19/2015	6/23/2015
5	1515542003	F9M23	30.46 grams	5 mL		SAMPLE	4	1515542003-A	SI2PEST8.4	5936	7/19/2015	6/23/2015
6	1515542004	F9M24	30.06 grams	5 mL		SAMPLE	4	1515542004-A	SI2PEST8.4	5936	7/19/2015	6/23/2015
7	1515542005	F9M25	30.25 grams	5 mL		SAMPLE	4	1515542005-A	SI2PEST8.4	5936	7/19/2015	6/23/2015
8	1515542006	F9M26	30.36 grams	5 mL		SAMPLE	4	1515542006-A	SI2PEST8.4	5936	7/19/2015	6/23/2015
9	1515542007	F9M27	30.1 grams	5 mL		SAMPLE	4	1515542007-A	SI2PEST8.4	5936	7/19/2015	6/23/2015
10	1515542008	F9M27MS	30.1 grams	5 mL		MS	4	1515542008-A	SI2PEST8.4	5936	7/19/2015	6/23/2015
11	1515542009	F9M27MSD	30.1 grams	5 mL		MSD	4	1515542009-A	SI2PEST8.4	5936	7/19/2015	6/23/2015
12	1515542010	F9M28	30.18 grams	5 mL		SAMPLE	4	1515542010-A	SI2PEST8.4	5936	7/19/2015	6/23/2015
13	1515542011	F9M29	30.15 grams	5 mL		SAMPLE	4	1515542011-A	SI2PEST8.4	5936	7/19/2015	6/23/2015
14	1515542012	F9M30	30.33 grams	5 mL		SAMPLE	4	1515542012-A	SI2PEST8.4	5936	7/19/2015	6/23/2015
15	1515542013	F9M31	30.33 grams	5 mL		SAMPLE	4	1515542013-A	SI2PEST8.4	5936	7/19/2015	6/23/2015
16	1515542014	F9M32	30.06 grams	5 mL		SAMPLE	4	1515542014-A	SI2PEST8.4	5936	7/19/2015	6/23/2015
17	1515542015	F9M33	30.15 grams	5 mL		SAMPLE	4	1515542015-A	SI2PEST8.4	5936	7/19/2015	6/23/2015
18	1515542016	F9M34	30.05 grams	5 mL		SAMPLE	4	1515542016-A	SI2PEST8.4	5936	7/19/2015	6/23/2015
19	1515542017	F9M35	30.05 grams	5 mL		SAMPLE	4	1515542017-A	SI2PEST8.4	5936	7/19/2015	6/23/2015
20	1515542018	F9M37	30.05 grams	5 mL		SAMPLE	4	1515542018-A	SI2PEST8.4	5936	7/19/2015	6/23/2015
21	1515542019	F9M38	30.31 grams	5 mL		SAMPLE	4	1515542019-A	SI2PEST8.4	5936	7/19/2015	6/23/2015
22	1515542020	F9M39	30.34 grams	5 mL		SAMPLE	4	1515542020-A	SI2PEST8.4	5936	7/19/2015	6/23/2015
23	1515542021	F9M40	30.2 grams	5 mL		SAMPLE	4	1515542021-A	SI2PEST8.4	5936	7/19/2015	6/23/2015
24	1515542022	F9M41	30.46 grams	5 mL		SAMPLE	4	1515542022-A	SI2PEST8.4	5936	7/19/2015	6/23/2015

Samples analyzed: 06/19/2015-06/20/2015 ICAL(s) analyzed: 06/19/2015 (A), CCVs: B, C, D

Instrument: GC31: 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: All results were witin established limits.

Dilutions: Sample F9M23 was diluted 1:5 at the instrument based on extract color to protect the integrity of the instrument.

Miscellaneous: 1) None.

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GC/ECD PEST INJECTION LOG

File Name	Date Inject	Time Inject	Sample Name	Other ID	Instr ID	Column ID
31150619A_002.rst	06/19/2015	12:23:34	PRIME		GC31A	RTXCLP 0.32mm x 30m
31150619A_003.rst	06/19/2015	12:43:54	PRIME		GC31A	RTXCLP 0.32mm x 30m
31150619A_004.rst	06/19/2015	13:04:12	RESCA1	28313	GC31A	RTXCLP 0.32mm x 30m
31150619A_005.rst	06/19/2015	13:24:34	PEMA1	28317	GC31A	RTXCLP 0.32mm x 30m
31150619A_006.rst	06/19/2015	13:45:08	TOXAPH1A1	28306	GC31A	RTXCLP 0.32mm x 30m
31150619A_007.rst	06/19/2015	14:05:30	TOXAPH2A1	28307	GC31A	RTXCLP 0.32mm x 30m
31150619A_008.rst	06/19/2015	14:26:02	TOXAPH3A1	28308	GC31A	RTXCLP 0.32mm x 30m
31150619A_009.rst	06/19/2015	14:46:24	TOXAPH4A1	28309	GC31A	RTXCLP 0.32mm x 30m
31150619A_010.rst	06/19/2015	15:06:44	TOXAPH5A1	28310	GC31A	RTXCLP 0.32mm x 30m
31150619A_011.rst	06/19/2015	15:27:04	INDC1A1	28311	GC31A	RTXCLP 0.32mm x 30m
31150619A_012.rst	06/19/2015	15:47:40	INDC2A1	28312	GC31A	RTXCLP 0.32mm x 30m
31150619A_013.rst	06/19/2015	16:08:00	INDC3A1	28313	GC31A	RTXCLP 0.32mm x 30m
31150619A_014.rst	06/19/2015	16:28:18	INDC4A1	28314	GC31A	RTXCLP 0.32mm x 30m
31150619A_015.rst	06/19/2015	16:48:41	INDC5A1	28315	GC31A	RTXCLP 0.32mm x 30m
31150619A_016.rst	06/19/2015	17:08:59	PIBLKB1	28316	GC31A	RTXCLP 0.32mm x 30m
31150619A_017.rst	06/19/2015	17:29:33	PEMB1	28317	GC31A	RTXCLP 0.32mm x 30m
31150619A_018.rst	06/19/2015	17:49:53	450194	PBLKS1	GC31A	RTXCLP 0.32mm x 30m
31150619A_019.rst	06/19/2015	18:10:11	450195	PLCSS1	GC31A	RTXCLP 0.32mm x 30m
31150619A_020.rst	06/19/2015	18:30:43	1515542007	F9M27	GC31A	RTXCLP 0.32mm x 30m
31150619A_021.rst	06/19/2015	18:50:59	1515542008	F9M27MS	GC31A	RTXCLP 0.32mm x 30m
31150619A_022.rst	06/19/2015	19:11:17	1515542009	F9M27MSD	GC31A	RTXCLP 0.32mm x 30m
31150619A_023.rst	06/19/2015	19:31:37	1515542011	F9M29	GC31A	RTXCLP 0.32mm x 30m
31150619A_024.rst	06/19/2015	19:52:09	1515542012	F9M30	GC31A	RTXCLP 0.32mm x 30m
31150619A_025.rst	06/19/2015	20:12:23	1515542013	F9M31	GC31A	RTXCLP 0.32mm x 30m
31150619A_026.rst	06/19/2015	20:32:39	1515542014	F9M32	GC31A	RTXCLP 0.32mm x 30m
31150619A_027.rst	06/19/2015	20:53:09	1515542015	F9M33	GC31A	RTXCLP 0.32mm x 30m
31150619A_028.rst	06/19/2015	21:13:23	1515542016	F9M34	GC31A	RTXCLP 0.32mm x 30m
31150619A_029.rst	06/19/2015	21:33:39	1515542017	F9M35	GC31A	RTXCLP 0.32mm x 30m
31150619A_030.rst	06/19/2015	21:53:51	1515542018	F9M37	GC31A	RTXCLP 0.32mm x 30m
31150619A_031.rst	06/19/2015	22:14:03	1515542019	F9M38	GC31A	RTXCLP 0.32mm x 30m
31150619A_032.rst	06/19/2015	22:34:17	1515542020	F9M39	GC31A	RTXCLP 0.32mm x 30m
31150619A_033.rst	06/19/2015	22:54:45	1515542021	F9M40	GC31A	RTXCLP 0.32mm x 30m
31150619A_034.rst	06/19/2015	23:15:11	1515542022	F9M41	GC31A	RTXCLP 0.32mm x 30m
31150619A_035.rst	06/19/2015	23:35:23	RINSE		GC31A	RTXCLP 0.32mm x 30m
31150619A_036.rst	06/19/2015	23:55:33	PIBLKC1	28316	GC31A	RTXCLP 0.32mm x 30m
31150619A_037.rst	06/20/2015	00:16:01	INDC3C1	28313	GC31A	RTXCLP 0.32mm x 30m
31150619A_038.rst	06/20/2015	00:36:11	RINSE		GC31A	RTXCLP 0.32mm x 30m
31150619A_039.rst	06/20/2015	00:56:24	1515542001	F9M21	GC31A	RTXCLP 0.32mm x 30m
31150619A_040.rst	06/20/2015	01:16:36	1515542002	F9M22	GC31A	RTXCLP 0.32mm x 30m
31150619A_041.rst	06/20/2015	01:36:58	1515542003	F9M23	GC31A	RTXCLP 0.32mm x 30m
31150619A_042.rst	06/20/2015	01:57:10	1515542004	F9M24	GC31A	RTXCLP 0.32mm x 30m
31150619A_043.rst	06/20/2015	02:17:22	1515542005	F9M25	GC31A	RTXCLP 0.32mm x 30m
31150619A_044.rst	06/20/2015	02:37:32	1515542006	F9M26	GC31A	RTXCLP 0.32mm x 30m
31150619A_045.rst	06/20/2015	02:57:44	1515542010	F9M28	GC31A	RTXCLP 0.32mm x 30m
31150619A_046.rst	06/20/2015	03:18:08	RINSE		GC31A	RTXCLP 0.32mm x 30m
31150619A_047.rst	06/20/2015	03:38:32	PIBLKD1	28316	GC31A	RTXCLP 0.32mm x 30m
31150619A_048.rst	06/20/2015	03:58:56	PEMD1	28317	GC31A	RTXCLP 0.32mm x 30m
31150619A_049.rst	06/20/2015	04:19:20	RINSE		GC31A	RTXCLP 0.32mm x 30m
31150619A_050.rst	06/20/2015	04:39:44	RINSE		GC31A	RTXCLP 0.32mm x 30m
31150619A_051.rst	06/20/2015	04:59:52	RINSE		GC31A	RTXCLP 0.32mm x 30m
31150619A_052.rst	06/20/2015	05:20:02	RINSE		GC31A	RTXCLP 0.32mm x 30m
31150619A_053.rst	06/20/2015	05:40:22	RINSE		GC31A	RTXCLP 0.32mm x 30m
31150619A_054.rst	06/20/2015	13:49:43	PRIME		GC31A	RTXCLP 0.32mm x 30m
31150619A_055.rst	06/20/2015	14:09:53	PRIME		GC31A	RTXCLP 0.32mm x 30m
31150619A_056.rst	06/20/2015	14:28:44	PRIME		GC31A	RTXCLP 0.32mm x 30m
31150619A_057.rst	06/20/2015	14:48:57	PRIME		GC31A	RTXCLP 0.32mm x 30m
31150619A_058.rst	06/20/2015	15:14:54	PRIME		GC31A	RTXCLP 0.32mm x 30m
31150619A_059.rst	06/20/2015	15:35:06	PRIME		GC31A	RTXCLP 0.32mm x 30m
31150619A_060.rst	06/20/2015	15:55:22	PIBLKE1	28316	GC31A	RTXCLP 0.32mm x 30m
31150619A_061.rst	06/20/2015	16:15:44	PEME1	28317	GC31A	RTXCLP 0.32mm x 30m
31150619A_062.rst	06/20/2015	16:36:00	450966	PBLKS1	GC31A	RTXCLP 0.32mm x 30m
31150619A_063.rst	06/20/2015	16:56:32	450967	PLCSS1	GC31A	RTXCLP 0.32mm x 30m
31150619A_064.rst	06/20/2015	17:16:48	1515605001	F9M48	GC31A	RTXCLP 0.32mm x 30m
31150619A_065.rst	06/20/2015	17:37:02	1515605002	F9M48MS	GC31A	RTXCLP 0.32mm x 30m
31150619A_066.rst	06/20/2015	17:57:22	1515605003	F9M48MSD	GC31A	RTXCLP 0.32mm x 30m
31150619A_067.rst	06/20/2015	18:17:40	1515605004	F9M49	GC31A	RTXCLP 0.32mm x 30m
31150619A_068.rst	06/20/2015	18:38:12	1515605005	F9M50	GC31A	RTXCLP 0.32mm x 30m
31150619A_069.rst	06/20/2015	18:58:26	1515605006	F9M51	GC31A	RTXCLP 0.32mm x 30m
31150619A_070.rst	06/20/2015	19:18:44	1515605007	F9M52	GC31A	RTXCLP 0.32mm x 30m
31150619A_071.rst	06/20/2015	19:39:00	1515605008	F9M54	GC31A	RTXCLP 0.32mm x 30m
31150619A_072.rst	06/20/2015	19:59:18	1515605009	F9M55	GC31A	RTXCLP 0.32mm x 30m
31150619A_073.rst	06/20/2015	20:19:46	1515605010	F9M56	GC31A	RTXCLP 0.32mm x 30m
31150619A_074.rst	06/20/2015	20:40:16	1515605011	F9M57	GC31A	RTXCLP 0.32mm x 30m
31150619A_075.rst	06/20/2015	21:00:32	1515605012	F9M58	GC31A	RTXCLP 0.32mm x 30m
31150619A_076.rst	06/20/2015	21:20:48	1515605013	F9M59	GC31A	RTXCLP 0.32mm x 30m
31150619A_077.rst	06/20/2015	21:41:04	1515605014	F9M60	GC31A	RTXCLP 0.32mm x 30m
31150619A_078.rst	06/20/2015	22:01:22	1515605015	F9M61	GC31A	RTXCLP 0.32mm x 30m
31150619A_079.rst	06/20/2015	22:21:38	1515605016	F9M62	GC31A	RTXCLP 0.32mm x 30m
31150619A_080.rst	06/20/2015	22:41:54	1515605017	F9M63	GC31A	RTXCLP 0.32mm x 30m
31150619A_081.rst	06/20/2015	23:02:08	1515605018	F9M64	GC31A	RTXCLP 0.32mm x 30m
31150619A_082.rst	06/20/2015	23:22:24	1515605019	F9M65	GC31A	RTXCLP 0.32mm x 30m
31150619A_083.rst	06/20/2015	23:42:40	1515605020	F9M66	GC31A	RTXCLP 0.32mm x 30m
31150619A_084.rst	06/21/2015	00:03:08	1515605021	F9M67	GC31A	RTXCLP 0.32mm x 30m
31150619A_085.rst	06/21/2015	00:23:20	1515605022	F9M68	GC31A	RTXCLP 0.32mm x 30m

GC/ECD PEST INJECTION LOG

File Name	Date Inject	Time Inject	Sample Name	Other ID	Instr ID	Column ID
31150619A_086.rst	06/21/2015	00:43:48	RINSE		GC31A	RTXCLP 0.32mm x 30m
31150619A_087.rst	06/21/2015	01:04:14	PIBLKF1	28316	GC31A	RTXCLP 0.32mm x 30m
31150619A_088.rst	06/21/2015	01:24:28	INDC3F1	28313	GC31A	RTXCLP 0.32mm x 30m
31150619A_089.rst	06/21/2015	01:44:40	RINSE		GC31A	RTXCLP 0.32mm x 30m
31150619A_090.rst	06/21/2015	02:04:54	RINSE		GC31A	RTXCLP 0.32mm x 30m

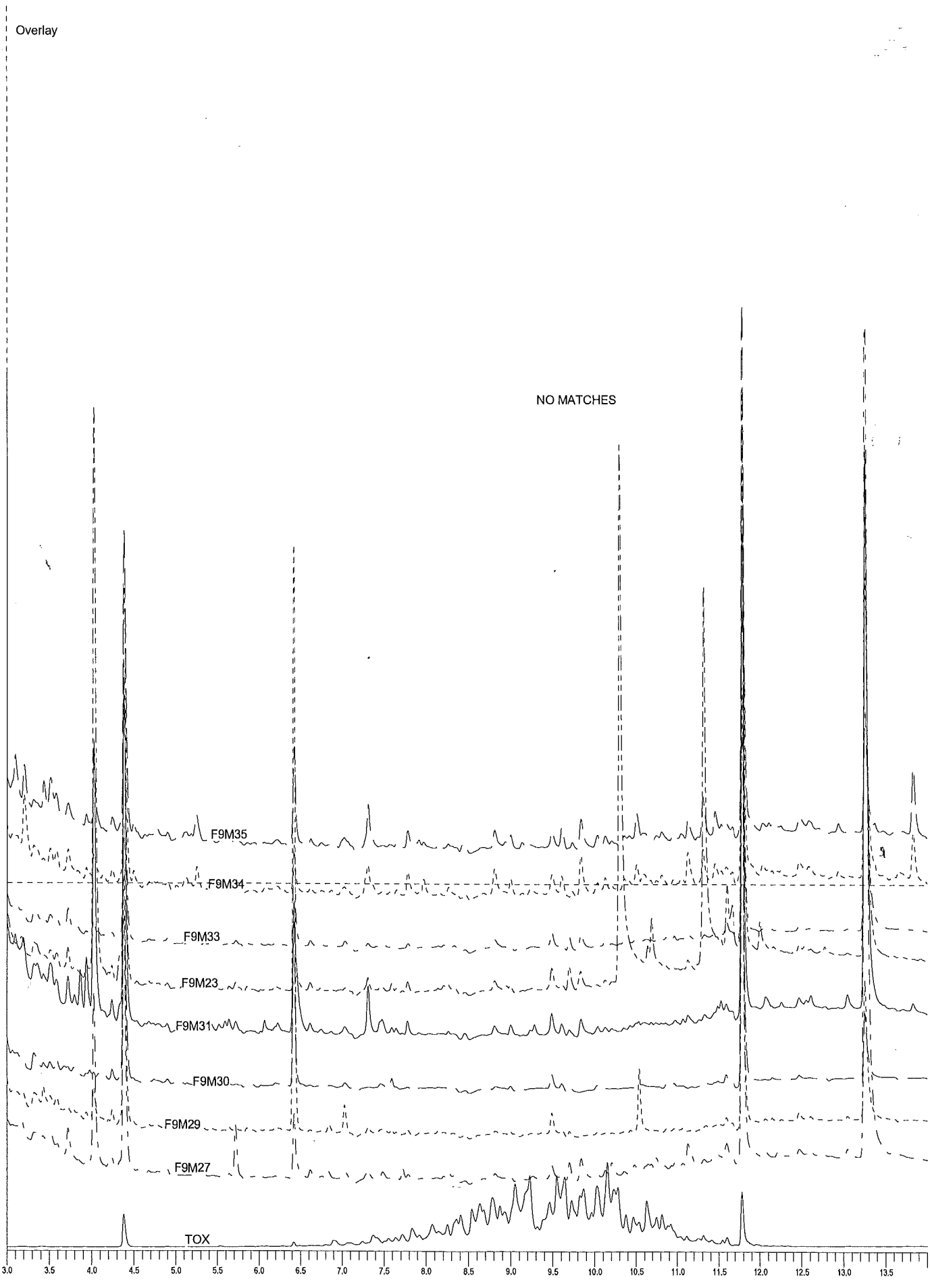
GC/ECD PEST INJECTION LOG

File Name	Date Inject	Time Inject	Sample Name	Other ID	Instr ID	Column ID
31150619B_001.rst	06/19/2015	12:23:34	PRIME		GC31B	RTXCLP2 0.32mm x 30m
31150619B_002.rst	06/19/2015	12:43:54	PRIME		GC31B	RTXCLP2 0.32mm x 30m
31150619B_003.rst	06/19/2015	13:04:12	PRIME		GC31B	RTXCLP2 0.32mm x 30m
31150619B_004.rst	06/19/2015	13:24:34	RESCA2	28313	GC31B	RTXCLP2 0.32mm x 30m
31150619B_005.rst	06/19/2015	13:45:08	PEMA2	28317	GC31B	RTXCLP2 0.32mm x 30m
31150619B_006.rst	06/19/2015	14:05:30	TOXAPH1A2	28306	GC31B	RTXCLP2 0.32mm x 30m
31150619B_007.rst	06/19/2015	14:26:02	TOXAPH2A2	28307	GC31B	RTXCLP2 0.32mm x 30m
31150619B_008.rst	06/19/2015	14:46:24	TOXAPH3A2	28308	GC31B	RTXCLP2 0.32mm x 30m
31150619B_009.rst	06/19/2015	15:06:44	TOXAPH4A2	28309	GC31B	RTXCLP2 0.32mm x 30m
31150619B_010.rst	06/19/2015	15:27:04	TOXAPH5A2	28310	GC31B	RTXCLP2 0.32mm x 30m
31150619B_011.rst	06/19/2015	15:47:40	INDC1A2	28311	GC31B	RTXCLP2 0.32mm x 30m
31150619B_012.rst	06/19/2015	16:08:00	INDC2A2	28312	GC31B	RTXCLP2 0.32mm x 30m
31150619B_013.rst	06/19/2015	16:28:18	INDC3A2	28313	GC31B	RTXCLP2 0.32mm x 30m
31150619B_014.rst	06/19/2015	16:48:41	INDC4A2	28314	GC31B	RTXCLP2 0.32mm x 30m
31150619B_015.rst	06/19/2015	17:08:59	INDC5A2	28315	GC31B	RTXCLP2 0.32mm x 30m
31150619B_016.rst	06/19/2015	17:29:33	PIBLKB2	28316	GC31B	RTXCLP2 0.32mm x 30m
31150619B_017.rst	06/19/2015	17:49:53	PEMB2	28317	GC31B	RTXCLP2 0.32mm x 30m
31150619B_018.rst	06/19/2015	18:10:11	450194	PBLKS1	GC31B	RTXCLP2 0.32mm x 30m
31150619B_019.rst	06/19/2015	18:30:43	450195	PLCSS1	GC31B	RTXCLP2 0.32mm x 30m
31150619B_020.rst	06/19/2015	18:50:59	1515542007	F9M27	GC31B	RTXCLP2 0.32mm x 30m
31150619B_021.rst	06/19/2015	19:11:17	1515542008	F9M27MS	GC31B	RTXCLP2 0.32mm x 30m
31150619B_022.rst	06/19/2015	19:31:37	1515542009	F9M27MSD	GC31B	RTXCLP2 0.32mm x 30m
31150619B_023.rst	06/19/2015	19:52:09	1515542011	F9M29	GC31B	RTXCLP2 0.32mm x 30m
31150619B_024.rst	06/19/2015	20:12:23	1515542012	F9M30	GC31B	RTXCLP2 0.32mm x 30m
31150619B_025.rst	06/19/2015	20:32:39	1515542013	F9M31	GC31B	RTXCLP2 0.32mm x 30m
31150619B_026.rst	06/19/2015	20:53:09	1515542014	F9M32	GC31B	RTXCLP2 0.32mm x 30m
31150619B_027.rst	06/19/2015	21:13:23	1515542015	F9M33	GC31B	RTXCLP2 0.32mm x 30m
31150619B_028.rst	06/19/2015	21:33:39	1515542016	F9M34	GC31B	RTXCLP2 0.32mm x 30m
31150619B_029.rst	06/19/2015	21:53:51	1515542017	F9M35	GC31B	RTXCLP2 0.32mm x 30m
31150619B_030.rst	06/19/2015	22:14:03	1515542018	F9M37	GC31B	RTXCLP2 0.32mm x 30m
31150619B_031.rst	06/19/2015	22:34:17	1515542019	F9M38	GC31B	RTXCLP2 0.32mm x 30m
31150619B_032.rst	06/19/2015	22:54:45	1515542020	F9M39	GC31B	RTXCLP2 0.32mm x 30m
31150619B_033.rst	06/19/2015	23:15:11	1515542021	F9M40	GC31B	RTXCLP2 0.32mm x 30m
31150619B_034.rst	06/19/2015	23:35:23	1515542022	F9M41	GC31B	RTXCLP2 0.32mm x 30m
31150619B_035.rst	06/19/2015	23:55:33	RINSE		GC31B	RTXCLP2 0.32mm x 30m
31150619B_036.rst	06/20/2015	00:16:01	PIBLKC2	28316	GC31B	RTXCLP2 0.32mm x 30m
31150619B_037.rst	06/20/2015	00:36:11	INDC3C2	28313	GC31B	RTXCLP2 0.32mm x 30m
31150619B_038.rst	06/20/2015	00:56:24	RINSE		GC31B	RTXCLP2 0.32mm x 30m
31150619B_039.rst	06/20/2015	01:16:36	1515542001	F9M21	GC31B	RTXCLP2 0.32mm x 30m
31150619B_040.rst	06/20/2015	01:36:58	1515542002	F9M22	GC31B	RTXCLP2 0.32mm x 30m
31150619B_041.rst	06/20/2015	01:57:10	1515542003	F9M23	GC31B	RTXCLP2 0.32mm x 30m
31150619B_042.rst	06/20/2015	02:17:22	1515542004	F9M24	GC31B	RTXCLP2 0.32mm x 30m
31150619B_043.rst	06/20/2015	02:37:32	1515542005	F9M25	GC31B	RTXCLP2 0.32mm x 30m
31150619B_044.rst	06/20/2015	02:57:44	1515542006	F9M26	GC31B	RTXCLP2 0.32mm x 30m
31150619B_045.rst	06/20/2015	03:18:08	1515542010	F9M28	GC31B	RTXCLP2 0.32mm x 30m
31150619B_046.rst	06/20/2015	03:38:32	RINSE		GC31B	RTXCLP2 0.32mm x 30m
31150619B_047.rst	06/20/2015	03:58:56	PIBLKD2	28316	GC31B	RTXCLP2 0.32mm x 30m
31150619B_048.rst	06/20/2015	04:19:20	PEMD2	28317	GC31B	RTXCLP2 0.32mm x 30m
31150619B_049.rst	06/20/2015	04:39:44	RINSE		GC31B	RTXCLP2 0.32mm x 30m
31150619B_050.rst	06/20/2015	04:59:52	RINSE		GC31B	RTXCLP2 0.32mm x 30m
31150619B_051.rst	06/20/2015	05:20:02	RINSE		GC31B	RTXCLP2 0.32mm x 30m
31150619B_052.rst	06/20/2015	05:40:22	RINSE		GC31B	RTXCLP2 0.32mm x 30m
31150619B_053.rst	06/20/2015	13:49:43	RINSE		GC31B	RTXCLP2 0.32mm x 30m
31150619B_054.rst	06/20/2015	14:09:53	PRIME		GC31B	RTXCLP2 0.32mm x 30m
31150619B_055.rst	06/20/2015	14:28:44	PRIME		GC31B	RTXCLP2 0.32mm x 30m
31150619B_056.rst	06/20/2015	14:48:57	PRIME		GC31B	RTXCLP2 0.32mm x 30m
31150619B_057.rst	06/20/2015	15:14:54	PRIME		GC31B	RTXCLP2 0.32mm x 30m
31150619B_058.rst	06/20/2015	15:35:06	PRIME		GC31B	RTXCLP2 0.32mm x 30m
31150619B_059.rst	06/20/2015	15:55:22	PRIME		GC31B	RTXCLP2 0.32mm x 30m
31150619B_060.rst	06/20/2015	16:15:44	PIBLKE2	28316	GC31B	RTXCLP2 0.32mm x 30m
31150619B_061.rst	06/20/2015	16:36:00	PEME2	28317	GC31B	RTXCLP2 0.32mm x 30m
31150619B_062.rst	06/20/2015	16:56:32	450966	PBLKS1	GC31B	RTXCLP2 0.32mm x 30m
31150619B_063.rst	06/20/2015	17:16:48	450967	PLCSS1	GC31B	RTXCLP2 0.32mm x 30m
31150619B_064.rst	06/20/2015	17:37:02	1515605001	F9M48	GC31B	RTXCLP2 0.32mm x 30m
31150619B_065.rst	06/20/2015	17:57:22	1515605002	F9M48MS	GC31B	RTXCLP2 0.32mm x 30m
31150619B_066.rst	06/20/2015	18:17:40	1515605003	F9M48MSD	GC31B	RTXCLP2 0.32mm x 30m
31150619B_067.rst	06/20/2015	18:38:12	1515605004	F9M49	GC31B	RTXCLP2 0.32mm x 30m
31150619B_068.rst	06/20/2015	18:58:26	1515605005	F9M50	GC31B	RTXCLP2 0.32mm x 30m
31150619B_069.rst	06/20/2015	19:18:44	1515605006	F9M51	GC31B	RTXCLP2 0.32mm x 30m
31150619B_070.rst	06/20/2015	19:39:00	1515605007	F9M52	GC31B	RTXCLP2 0.32mm x 30m
31150619B_071.rst	06/20/2015	19:59:18	1515605008	F9M54	GC31B	RTXCLP2 0.32mm x 30m
31150619B_072.rst	06/20/2015	20:19:46	1515605009	F9M55	GC31B	RTXCLP2 0.32mm x 30m
31150619B_073.rst	06/20/2015	20:40:16	1515605010	F9M56	GC31B	RTXCLP2 0.32mm x 30m
31150619B_074.rst	06/20/2015	21:00:32	1515605011	F9M57	GC31B	RTXCLP2 0.32mm x 30m
31150619B_075.rst	06/20/2015	21:20:48	1515605012	F9M58	GC31B	RTXCLP2 0.32mm x 30m
31150619B_076.rst	06/20/2015	21:41:04	1515605013	F9M59	GC31B	RTXCLP2 0.32mm x 30m
31150619B_077.rst	06/20/2015	22:01:22	1515605014	F9M60	GC31B	RTXCLP2 0.32mm x 30m
31150619B_078.rst	06/20/2015	22:21:38	1515605015	F9M61	GC31B	RTXCLP2 0.32mm x 30m
31150619B_079.rst	06/20/2015	22:41:54	1515605016	F9M62	GC31B	RTXCLP2 0.32mm x 30m
31150619B_080.rst	06/20/2015	23:02:08	1515605017	F9M63	GC31B	RTXCLP2 0.32mm x 30m
31150619B_081.rst	06/20/2015	23:22:24	1515605018	F9M64	GC31B	RTXCLP2 0.32mm x 30m
31150619B_082.rst	06/20/2015	23:42:40	1515605019	F9M65	GC31B	RTXCLP2 0.32mm x 30m
31150619B_083.rst	06/21/2015	00:03:08	1515605020	F9M66	GC31B	RTXCLP2 0.32mm x 30m
31150619B_084.rst	06/21/2015	00:23:20	1515605021	F9M67	GC31B	RTXCLP2 0.32mm x 30m

GC/ECD PEST INJECTION LOG

File Name	Date Inject	Time Inject	Sample Name	Other ID	Instr ID	Column ID
31150619B_085.rst	06/21/2015	00:43:48	1515605022	F9M68	GC31B	RTXCLP2 0.32mm x 30m
31150619B_086.rst	06/21/2015	01:04:14	RINSE		GC31B	RTXCLP2 0.32mm x 30m
31150619B_087.rst	06/21/2015	01:24:28	PIBLKF2	28316	GC31B	RTXCLP2 0.32mm x 30m
31150619B_088.rst	06/21/2015	01:44:40	INDC3F2	28313	GC31B	RTXCLP2 0.32mm x 30m
31150619B_089.rst	06/21/2015	02:04:54	RINSE		GC31B	RTXCLP2 0.32mm x 30m

Plot Title	Start Time	End Time	Scale	Offset
31150619A_028.raw Sample Name : 1515542016 Sample Number: 028 Instrument File Name: G:\GCE31\31150619\31_som_acq_pest	3.00	14.00	99.00	20.00
31150619A_025.raw Sample Name : 1515542013 Sample Number: 025 Instrument File Name: G:\GCE31\31150619\31_som_acq_pest	3.00	14.00	99.00	20.00
31150619A_024.raw Sample Name : 1515542012 Sample Number: 024 Instrument File Name: G:\GCE31\31150619\31_som_acq_pest	3.00	14.00	99.00	20.00
31150619A_008.raw Sample Name : TOXAPH3A1 Sample Number: 008 Instrument File Name: G:\GCE31\31150619\31_som_acq_pest	3.00	14.00	500.00	20.00
31150619A_027.raw Sample Name : 1515542015 Sample Number: 027 Instrument File Name: G:\GCE31\31150619\31_som_acq_pest	3.00	14.00	99.00	20.00
31150619A_023.raw Sample Name : 1515542011 Sample Number: 023 Instrument File Name: G:\GCE31\31150619\31_som_acq_pest	3.00	14.00	99.00	20.00
31150619A_029.raw Sample Name : 1515542017 Sample Number: 029 Instrument File Name: G:\GCE31\31150619\31_som_acq_pest	3.00	14.00	99.00	20.00
31150619A_026.raw Sample Name : 1515542014 Sample Number: 026 Instrument File Name: G:\GCE31\31150619\31_som_acq_pest	3.00	14.00	99.00	20.00
31150619A_020.raw Sample Name : 1515542007 Sample Number: 020 Instrument File Name: G:\GCE31\31150619\31_som_acq_pest	3.00	14.00	99.00	20.00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F9M35
F9M34
F9M33
F9M23
F9M31
F9M30
F9M29
F9M27
TOX
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3.5
4.0
4.5
5.0
5.5
6.0
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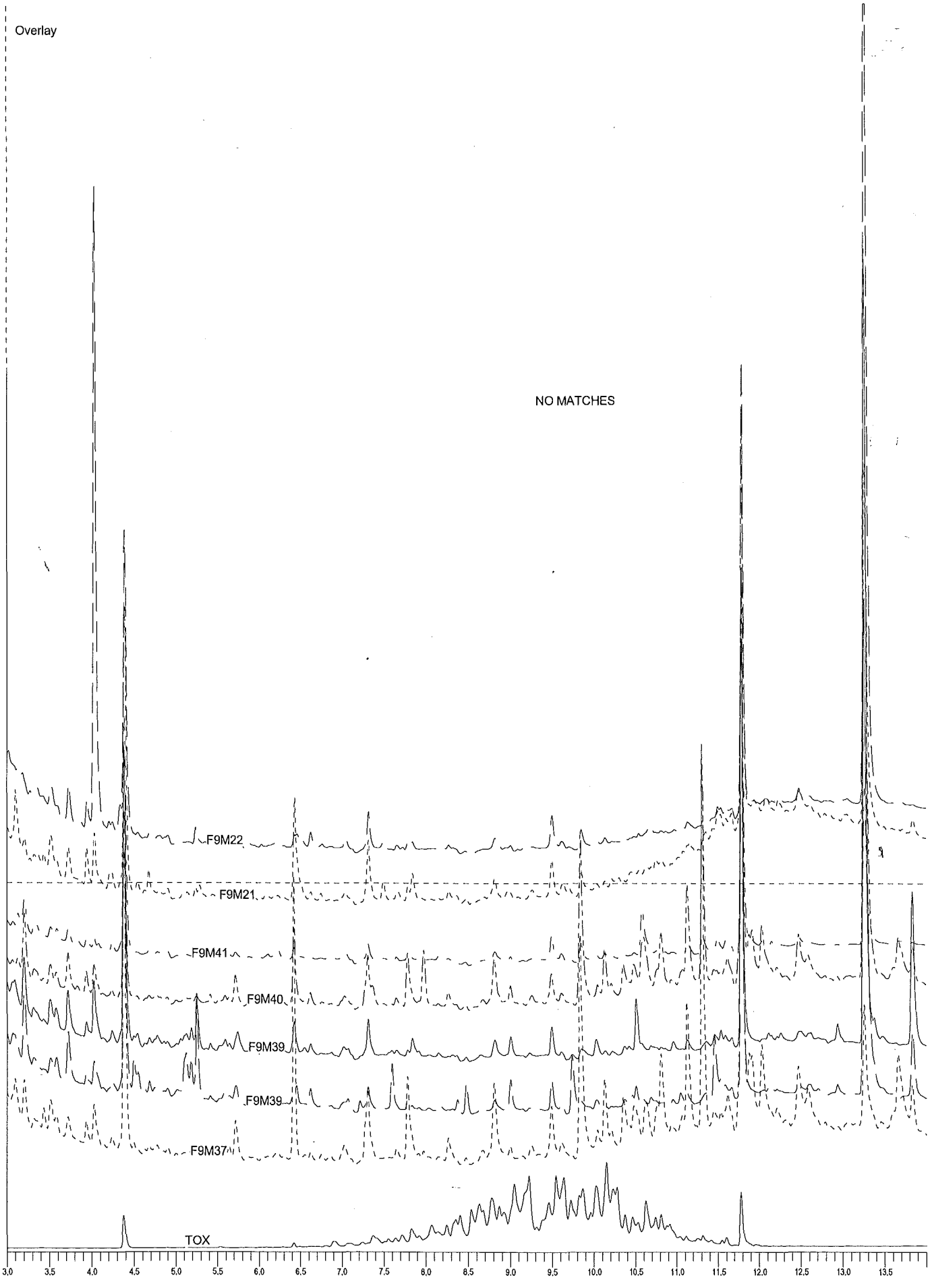
7.0
7.5
8.0
8.5
9.0
9.5
10.0
10.5
11.0
11.5
12.0
12.5
13.0
13.5

Plot Title		Start Time	End Time	Scale	Offset
31150619A_030.raw		3.00	14.00	99.00	20.00
Sample Name :	1515542018				
Sample Number:	030				
Instrument File Name:	G:\GCE31\31150619\31_som_acq_pest				
31150619A_033.raw		3.00	14.00	99.00	20.00
Sample Name :	1515542021				
Sample Number:	033				
Instrument File Name:	G:\GCE31\31150619\31_som_acq_pest				
31150619A_040.raw		3.00	14.00	99.00	20.00
Sample Name :	1515542002				
Sample Number:	040				
Instrument File Name:	G:\GCE31\31150619\31_som_acq_pest				
31150619A_039.raw		3.00	14.00	99.00	20.00
Sample Name :	1515542001				
Sample Number:	039				
Instrument File Name:	G:\GCE31\31150619\31_som_acq_pest				
31150619A_032.raw		3.00	14.00	99.00	20.00
Sample Name :	1515542020				
Sample Number:	032				
Instrument File Name:	G:\GCE31\31150619\31_som_acq_pest				
31150619A_034.raw		3.00	14.00	99.00	20.00
Sample Name :	1515542022				
Sample Number:	034				
Instrument File Name:	G:\GCE31\31150619\31_som_acq_pest				
31150619A_031.raw		3.00	14.00	99.00	20.00
Sample Name :	1515542019				
Sample Number:	031				
Instrument File Name:	G:\GCE31\31150619\31_som_acq_pest				
31150619A_008.raw		3.00	14.00	500.00	20.00
Sample Name :	TOXAPH3A1				
Sample Number:	008				
Instrument File Name:	G:\GCE31\31150619\31_som_acq_pest				


Overlay
NO MATCHES
F9M22
F9M21
F9M41
F9M40
F9M39
F9M39
F9M37
TOX
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4.0
4.5
5.0
5.5
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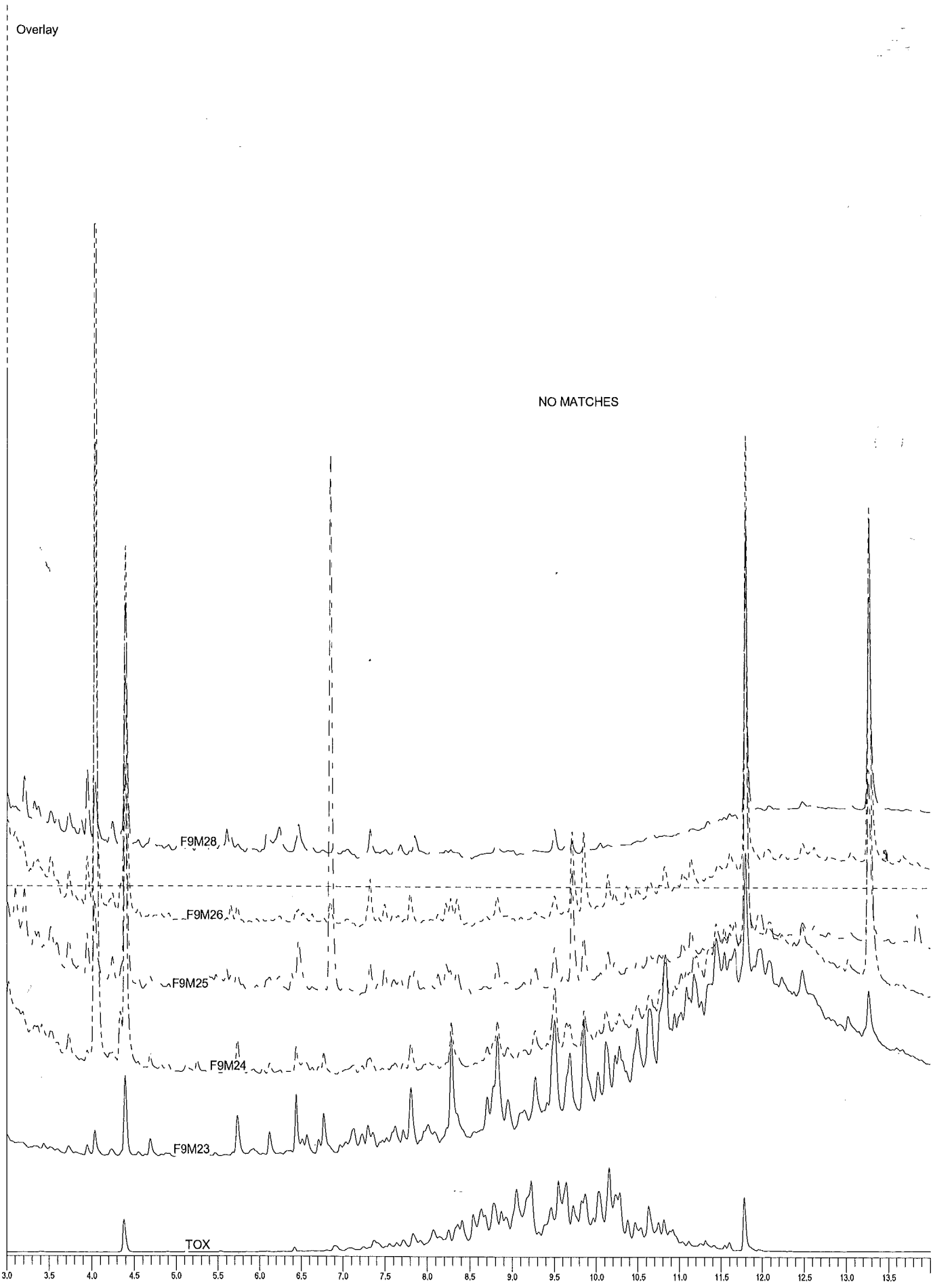
7.0
7.5
8.0
8.5
9.0
9.5
10.0
10.5
11.0
11.5
12.0
12.5
13.0
13.5

Plot Title		Start Time	End Time	Scale	Offset
31150619A_041.raw		3.00	14.00	99.00	20.00
Sample Name :	1515542003				
Sample Number:	041				
Instrument File Name:	G:\GCE31\31150619\31_som_acq_pest				
31150619A_042.raw		3.00	14.00	99.00	20.00
Sample Name :	1515542004				
Sample Number:	042				
Instrument File Name:	G:\GCE31\31150619\31_som_acq_pest				
31150619A_045.raw		3.00	14.00	99.00	20.00
Sample Name :	1515542010				
Sample Number:	045				
Instrument File Name:	G:\GCE31\31150619\31_som_acq_pest				
31150619A_044.raw		3.00	14.00	99.00	20.00
Sample Name :	1515542006				
Sample Number:	044				
Instrument File Name:	G:\GCE31\31150619\31_som_acq_pest				
31150619A_043.raw		3.00	14.00	99.00	20.00
Sample Name :	1515542005				
Sample Number:	043				
Instrument File Name:	G:\GCE31\31150619\31_som_acq_pest				
31150619A_008.raw		3.00	14.00	500.00	20.00
Sample Name :	TOXAPH3A1				
Sample Number:	008				
Instrument File Name:	G:\GCE31\31150619\31_som_acq_pest				


Overlay
NO MATCHES
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F9M26
F9M25
F9M24
F9M23
TOX
3.0
3.5
4.0
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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
12.0
12.5
13.0
13.5

Batch Worklist

Batch: ENVX/ 21739 Created: 6/5/2015 07:20 Instrument: HBN: 149948

Rule: Sonication Extrcn, Pest/Aclr Analyst: L. Edwards Status: NA

Workorder: 1515542 SDG: F9M21 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	450194	MB for HBN 149948 [ENVX/21739]	~~3.00g~~ 30.00g	5mL		MB	4		SNCTNPA.4P	6158	6/15/2015	6/4/2015	
2	450195	LCS-P for HBN 149948 [ENVX/217	~~3.00g~~ 30.00g			LCS-P	4		SNCTNPA.4P	6158	6/15/2015	6/4/2015	
3	450196	LCS-A for HBN 149948 [ENVX/217	~~3.00g~~ 30.00g			LCS-A	4		SNCTNPA.4P	6158	6/15/2015	6/4/2015	
4	1515542001	F9M21	30.03g			SAMPLE	4	1515542001-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
5	1515542002	F9M22	30.25g			SAMPLE	4	1515542002-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
6	1515542003	F9M23	30.46g			SAMPLE	4	1515542003-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
7	1515542004	F9M24	30.06g			SAMPLE	4	1515542004-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
8	1515542005	F9M25	30.25g			SAMPLE	4	1515542005-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
9	1515542006	F9M26	30.36g			SAMPLE	4	1515542006-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
10	1515542007	F9M27	30.10g			SAMPLE	4	1515542007-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
11	1515542008	F9M27MS	30.10g			MS	4	1515542008-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
12	1515542009	F9M27MSD	30.10g			MSD	4	1515542009-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
13	1515542010	F9M28	30.18g			SAMPLE	4	1515542010-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
14	1515542011	F9M29	30.15g			SAMPLE	4	1515542011-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
15	1515542012	F9M30	30.33g			SAMPLE	4	1515542012-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
16	1515542013	F9M31	30.33g			SAMPLE	4	1515542013-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
17	1515542014	F9M32	30.06g			SAMPLE	4	1515542014-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
18	1515542015	F9M33	30.15g			SAMPLE	4	1515542015-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
19	1515542016	F9M34	30.05g			SAMPLE	4	1515542016-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
20	1515542017	F9M35	30.05g			SAMPLE	4	1515542017-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
21	1515542018	F9M37	30.05g			SAMPLE	4	1515542018-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
22	1515542019	F9M38	30.31g			SAMPLE	4	1515542019-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
23	1515542020	F9M39	30.34g			SAMPLE	4	1515542020-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
24	1515542021	F9M40	30.20g			SAMPLE	4	1515542021-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
25	1515542022	F9M41	30.46g			SAMPLE	4	1515542022-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	

Some PEST

94266

BWL-V2.7

Batch Worklist

Batch: ENVX/ 21754 Created: 6/8/2015 08:16 Instrument: GPC06 HBN: 150061

Rule: GPC Pest/Aro Analyst: L. Edwards Status: NA

Workorder: 1515542 SDG: F9M21 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	450448	GB for HBN 150061 [ENVX/21754]				GB	4		E.GPC.PA.P	6158		6/9/2015	6/6/2015
2	450194	MB for HBN 149948 [ENVX/21739]	30 grams	5 mL		MB	4		E.GPC.PA.P	6158		6/9/2015	6/6/2015
3	450195	LCS-P for HBN 149948 [ENVX/217	30 grams	5 mL		LCS-P	4		E.GPC.PA.P	6158		6/9/2015	6/6/2015
4	450196	LCS-A for HBN 149948 [ENVX/217	30 grams	5 mL		LCS-A	4		E.GPC.PA.P	6158		6/9/2015	6/6/2015
5	1515542001	F9M21	30.03 grams	5 mL		SAMPLE	4	1515542001-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
6	1515542002	F9M22	30.25 grams	5 mL		SAMPLE	4	1515542002-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
7	1515542003	F9M23	30.46 grams	5 mL		SAMPLE	4	1515542003-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
8	1515542004	F9M24	30.06 grams	5 mL		SAMPLE	4	1515542004-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
9	1515542005	F9M25	30.25 grams	5 mL		SAMPLE	4	1515542005-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
10	1515542006	F9M26	30.36 grams	5 mL		SAMPLE	4	1515542006-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
11	1515542007	F9M27	30.1 grams	5 mL		SAMPLE	4	1515542007-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
12	1515542008	F9M27MS	30.1 grams	5 mL		MS	4	1515542008-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
13	1515542009	F9M27MSD	30.1 grams	5 mL		MSD	4	1515542009-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
14	1515542010	F9M28	30.18 grams	5 mL		SAMPLE	4	1515542010-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
15	1515542011	F9M29	30.15 grams	5 mL		SAMPLE	4	1515542011-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
16	1515542012	F9M30	30.33 grams	5 mL		SAMPLE	4	1515542012-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
17	1515542013	F9M31	30.33 grams	5 mL		SAMPLE	4	1515542013-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
18	1515542014	F9M32	30.06 grams	5 mL		SAMPLE	4	1515542014-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
19	1515542015	F9M33	30.15 grams	5 mL		SAMPLE	4	1515542015-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
20	1515542016	F9M34	30.05 grams	5 mL		SAMPLE	4	1515542016-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
21	1515542017	F9M35	30.05 grams	5 mL		SAMPLE	4	1515542017-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
22	1515542018	F9M37	30.05 grams	5 mL		SAMPLE	4	1515542018-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
23	1515542019	F9M38	30.31 grams	5 mL		SAMPLE	4	1515542019-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
24	1515542020	F9M39	30.34 grams	5 mL		SAMPLE	4	1515542020-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
25	1515542021	F9M40	30.2 grams	5 mL		SAMPLE	4	1515542021-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
26	1515542022	F9M41	30.46 grams	5 mL		SAMPLE	4	1515542022-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015

ALS Laboratory Group GPC Injection Logbook

Method:	SOM01.2	**Analytical Method**	Pest/ARO	**Work Order ID:**	1515542	**Horizon Batch ID:**	150061
Account:	08201	**Instrument ID:**	GPC06	**Column ID:**	8181346-1 690492-1	**Flow Rate:**	5mL/min.
Load Date:	6/6/15	**Load Time:**	18:13	**Pressure (PSI)**	159	**PST/ARO Weekly ID:**	6/3/15

Position	ALS Sample ID	Client Sample ID	Sample Notes/Comments
1	450448	GPC06 Blank	
2	450194	MB for HBN 149948	
3	450195	LCS-P for HBN 149948	
4	450196	LCS-A for HBN 149948	
5	1515542001	F9M21	
6	1515542002	F9M22	
7	1515542003	F9M23	
8	1515542004	F9M24	
9	1515542005	F9M25	
10	1515542006	F9M26	
11	1515542007	F9M27	
12	1515542008	F9M27MS	
13	1515542009	F9M27MSD	
14	1515542008	F9M27MS	
15	1515542009	F9M27MSD	
16	1515542010	F9M28	
17	1515542011	F9M29	
18	1515542012	F9M30	
19	1515542013	F9M31	
20	1515542014	F9M32	
21	1515542015	F9M33	
22	1515542016	F9M34	
23	1515542017	F9M35	
24	1515542018	F9M37	
25	1515542019	F9M38	
26	1515542020	F9M39	
27	1515542021	F9M40	
28	1515542022	F9M41	
29	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 V.S. EPA Region 6 Case/SDG # 45316/F9M21 Horizon Extraction HBN 149948

Work Order# 1515542 Sample #'s 1-22 Extraction Method ~~Pest~~ 6/5/15 SOM 01.2

SOP: OE-E~~M~~P-SOM Analytical Fraction Pest Matrix SOIL

Date samples weighed out 6/5/15 1000 by Peter Tran balance # 120212065

See extraction batch sheet for sample weights/volumes, initial pH's (waters), and final concentration volumes.

Extraction: Date/Time 6/5/15 1300 Stop Date/Time (CLLE's/Soxlet) 6/5/15 1300 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	Baker
Lot Number	10985		92673	DM245	DM196
Amount	per SOP		per SOP	per SOP	60ml

	Surrogate/DMC STD	LCS Standard	MS/MSD Standard	RLVS Standard
Standard ID	26390	26391	26392	
Spiked Amount	1mL	0.2 mL	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 6/5/15 1500 by [illegible] Comments TEMP WAS 67°C

Final Concentration: Date/Time 6/8/15 13:00 by [illegible] Comments The Temp was 79°C

Florisil (pesticides only) Date/Time 6/9/15 9:00 by [illegible] Florisil Column Lot # 24680

Comments

Checker Signature [signature] Date 6/8/15

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

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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

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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

Part Number:	20021	**Solvent(s):**	Lot # K38E41	Hexane
Lot Number:	031412			
Description:	Toxaphene			
Expiration Date:	031422			
		Storage:	4 °C	
Nominal Concentration (µg/mL):	1000			

21739

Gabriel Helland			031412
Formulated By:	Gabriel.Helland		DATE
Pedro Rentas			031412
Reviewed By:	Pedro L. Rentas		DATE

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.

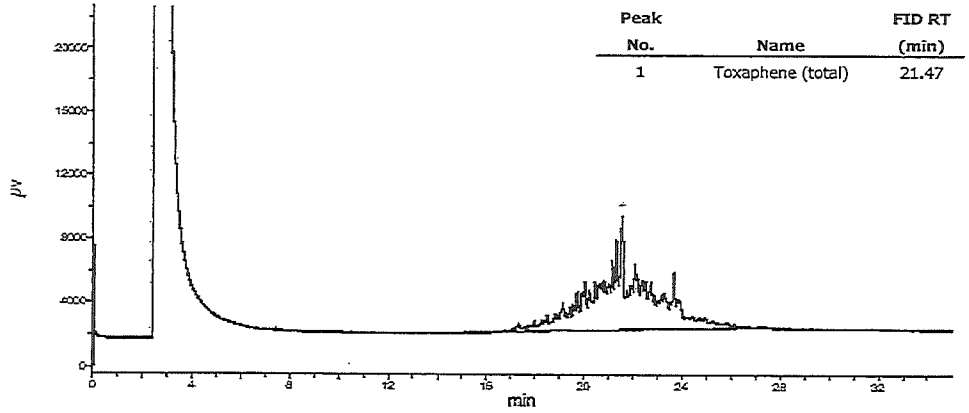
MSDS Information (Solvent Safety Info. On Attached pg.)

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/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

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Recd 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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Rec'd 12/13/13

Catalog No. : 32074 **Lot No.:** A085642

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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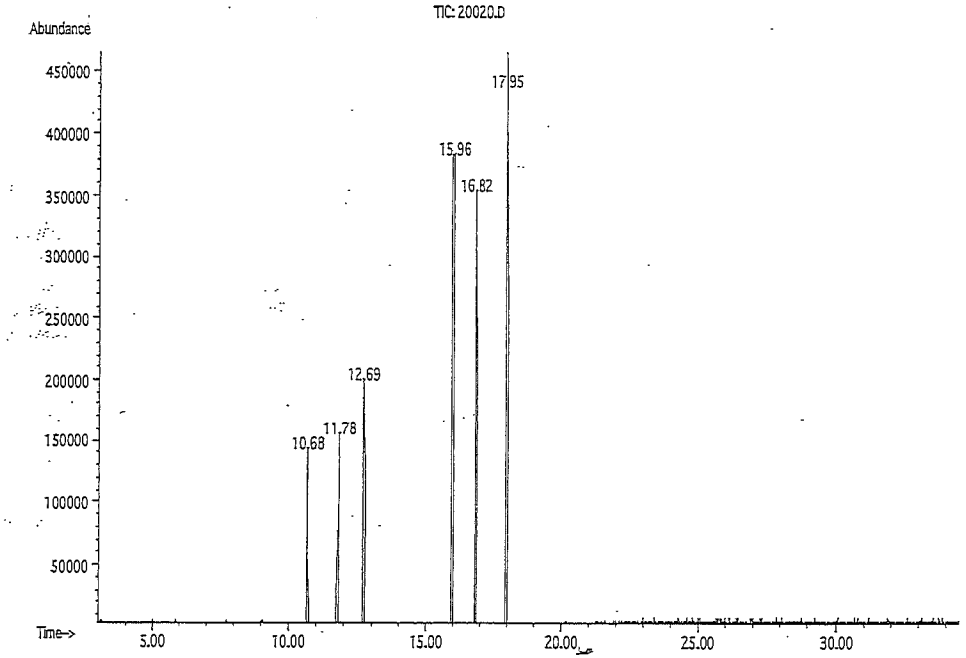
Recd 06/06/12

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 L. 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

153777

Batch Worklist

Batch: EGC/ 5802 Created: 6/12/2015 16:29 Instrument: HBN: 150469

Rule: SOM Aroclors, Soil Analyst: N. Borges Status: WP

Workorder: 1515542 SDG: F9M21 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	450194	MB for HBN 149948 [ENVX/21739]	30 grams	5 mL		MB	4		SOMAROS..4	6158	7/18/2015	6/23/2015	
2	450196	LCS-A for HBN 149948 [ENVX/217	30 grams	5 mL		LCS-A	4		SOMAROS..4	6158	7/18/2015	6/23/2015	
3	1515542001	F9M21	30.03 grams	5 mL		SAMPLE	4	1515542001-A	S12AROS..4	5936	7/18/2015	6/23/2015	
4	1515542002	F9M22	30.25 grams	5 mL		SAMPLE	4	1515542002-A	S12AROS..4	5936	7/18/2015	6/23/2015	
5	1515542003	F9M23	30.46 grams	5 mL		SAMPLE	4	1515542003-A	S12AROS..4	5936	7/18/2015	6/23/2015	
6	1515542004	F9M24	30.06 grams	5 mL		SAMPLE	4	1515542004-A	S12AROS..4	5936	7/18/2015	6/23/2015	
7	1515542005	F9M25	30.25 grams	5 mL		SAMPLE	4	1515542005-A	S12AROS..4	5936	7/18/2015	6/23/2015	
8	1515542006	F9M26	30.36 grams	5 mL		SAMPLE	4	1515542006-A	S12AROS..4	5936	7/18/2015	6/23/2015	
9	1515542007	F9M27	30.1 grams	5 mL		SAMPLE	4	1515542007-A	S12AROS..4	5936	7/18/2015	6/23/2015	
10	1515542008	F9M27MS	30.1 grams	5 mL		MS	4	1515542008-A	S12AROS..4	5936	7/18/2015	6/23/2015	
11	1515542009	F9M27MSD	30.1 grams	5 mL		MSD	4	1515542009-A	S12AROS..4	5936	7/18/2015	6/23/2015	
12	1515542010	F9M28	30.18 grams	5 mL		SAMPLE	4	1515542010-A	S12AROS..4	5936	7/18/2015	6/23/2015	
13	1515542011	F9M29	30.15 grams	5 mL		SAMPLE	4	1515542011-A	S12AROS..4	5936	7/18/2015	6/23/2015	
14	1515542012	F9M30	30.33 grams	5 mL		SAMPLE	4	1515542012-A	S12AROS..4	5936	7/18/2015	6/23/2015	
15	1515542013	F9M31	30.33 grams	5 mL		SAMPLE	4	1515542013-A	S12AROS..4	5936	7/18/2015	6/23/2015	
16	1515542014	F9M32	30.06 grams	5 mL		SAMPLE	4	1515542014-A	S12AROS..4	5936	7/18/2015	6/23/2015	
17	1515542015	F9M33	30.15 grams	5 mL		SAMPLE	4	1515542015-A	S12AROS..4	5936	7/18/2015	6/23/2015	
18	1515542016	F9M34	30.05 grams	5 mL		SAMPLE	4	1515542016-A	S12AROS..4	5936	7/18/2015	6/23/2015	
19	1515542017	F9M35	30.05 grams	5 mL		SAMPLE	4	1515542017-A	S12AROS..4	5936	7/18/2015	6/23/2015	
20	1515542018	F9M37	30.05 grams	5 mL		SAMPLE	4	1515542018-A	S12AROS..4	5936	7/18/2015	6/23/2015	
21	1515542019	F9M38	30.31 grams	5 mL		SAMPLE	4	1515542019-A	S12AROS..4	5936	7/18/2015	6/23/2015	
22	1515542020	F9M39	30.34 grams	5 mL		SAMPLE	4	1515542020-A	S12AROS..4	5936	7/18/2015	6/23/2015	
23	1515542021	F9M40	30.2 grams	5 mL		SAMPLE	4	1515542021-A	S12AROS..4	5936	7/18/2015	6/23/2015	
24	1515542022	F9M41	30.46 grams	5 mL		SAMPLE	4	1515542022-A	S12AROS..4	5936	7/18/2015	6/23/2015	

EGC 5802

GC/ECD AROCLORS ANALYST WRITE-UP

Batch: EGC/ 5802 Created: 6/12/2015 16:29 Instrument: HBN: 150469

Rule: SOM Aroclors, Soil Analyst: N. Borges Status: WP

Workorder: 1515542 SDG: F9M21 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	450194	MB for HBN 149948 [ENVX/21739]	30 grams	5 mL		MB	4		SOMAROS..4	6158	7/18/2015	6/23/2015	
2	450196	LCS-A for HBN 149948 [ENVX/217	30 grams	5 mL		LCS-A	4		SOMAROS..4	6158	7/18/2015	6/23/2015	
3	1515542001	F9M21	30.03 grams	5 mL		SAMPLE	4	1515542001-A	S12AROS..4	5936	7/18/2015	6/23/2015	
4	1515542002	F9M22	30.25 grams	5 mL		SAMPLE	4	1515542002-A	S12AROS..4	5936	7/18/2015	6/23/2015	
5	1515542003	F9M23	30.46 grams	5 mL		SAMPLE	4	1515542003-A	S12AROS..4	5936	7/18/2015	6/23/2015	
6	1515542004	F9M24	30.06 grams	5 mL		SAMPLE	4	1515542004-A	S12AROS..4	5936	7/18/2015	6/23/2015	
7	1515542005	F9M25	30.25 grams	5 mL		SAMPLE	4	1515542005-A	S12AROS..4	5936	7/18/2015	6/23/2015	
8	1515542006	F9M26	30.36 grams	5 mL		SAMPLE	4	1515542006-A	S12AROS..4	5936	7/18/2015	6/23/2015	
9	1515542007	F9M27	30.1 grams	5 mL		SAMPLE	4	1515542007-A	S12AROS..4	5936	7/18/2015	6/23/2015	
10	1515542008	F9M27MS	30.1 grams	5 mL		MS	4	1515542008-A	S12AROS..4	5936	7/18/2015	6/23/2015	
11	1515542009	F9M27MSD	30.1 grams	5 mL		MSD	4	1515542009-A	S12AROS..4	5936	7/18/2015	6/23/2015	
12	1515542010	F9M28	30.18 grams	5 mL		SAMPLE	4	1515542010-A	S12AROS..4	5936	7/18/2015	6/23/2015	
13	1515542011	F9M29	30.15 grams	5 mL		SAMPLE	4	1515542011-A	S12AROS..4	5936	7/18/2015	6/23/2015	
14	1515542012	F9M30	30.33 grams	5 mL		SAMPLE	4	1515542012-A	S12AROS..4	5936	7/18/2015	6/23/2015	
15	1515542013	F9M31	30.33 grams	5 mL		SAMPLE	4	1515542013-A	S12AROS..4	5936	7/18/2015	6/23/2015	
16	1515542014	F9M32	30.06 grams	5 mL		SAMPLE	4	1515542014-A	S12AROS..4	5936	7/18/2015	6/23/2015	
17	1515542015	F9M33	30.15 grams	5 mL		SAMPLE	4	1515542015-A	S12AROS..4	5936	7/18/2015	6/23/2015	
18	1515542016	F9M34	30.05 grams	5 mL		SAMPLE	4	1515542016-A	S12AROS..4	5936	7/18/2015	6/23/2015	
19	1515542017	F9M35	30.05 grams	5 mL		SAMPLE	4	1515542017-A	S12AROS..4	5936	7/18/2015	6/23/2015	
20	1515542018	F9M37	30.05 grams	5 mL		SAMPLE	4	1515542018-A	S12AROS..4	5936	7/18/2015	6/23/2015	
21	1515542019	F9M38	30.31 grams	5 mL		SAMPLE	4	1515542019-A	S12AROS..4	5936	7/18/2015	6/23/2015	
22	1515542020	F9M39	30.34 grams	5 mL		SAMPLE	4	1515542020-A	S12AROS..4	5936	7/18/2015	6/23/2015	
23	1515542021	F9M40	30.2 grams	5 mL		SAMPLE	4	1515542021-A	S12AROS..4	5936	7/18/2015	6/23/2015	
24	1515542022	F9M41	30.46 grams	5 mL		SAMPLE	4	1515542022-A	S12AROS..4	5936	7/18/2015	6/23/2015	

Samples analyzed: 06/12 - 13/2015 ICAL(s) analyzed: 06/12/2015 (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.

GC/ECD ARO INJECTION LOG

File Name	Date Inject	Time Inject	Sample Name	Other ID	Instr ID	Column ID
20150612A_002.rst	06/12/2015	17:49:21	PRIME		GC20A	RTXCLP 0.32mm x 30m
20150612A_003.rst	06/12/2015	18:05:31	PRIME		GC20A	RTXCLP 0.32mm x 30m
20150612A_004.rst	06/12/2015	18:21:39	AR16601A1	26394	GC20A	RTXCLP 0.32mm x 30m
20150612A_005.rst	06/12/2015	18:37:51	AR16602A1	26395	GC20A	RTXCLP 0.32mm x 30m
20150612A_006.rst	06/12/2015	18:53:59	AR16603A1	26396	GC20A	RTXCLP 0.32mm x 30m
20150612A_007.rst	06/12/2015	19:10:11	AR16604A1	26397	GC20A	RTXCLP 0.32mm x 30m
20150612A_008.rst	06/12/2015	19:26:19	AR16605A1	26398	GC20A	RTXCLP 0.32mm x 30m
20150612A_009.rst	06/12/2015	19:42:29	AR12213A1	26401	GC20A	RTXCLP 0.32mm x 30m
20150612A_010.rst	06/12/2015	19:58:51	AR12323A1	26406	GC20A	RTXCLP 0.32mm x 30m
20150612A_011.rst	06/12/2015	20:15:03	AR12423A1	26411	GC20A	RTXCLP 0.32mm x 30m
20150612A_012.rst	06/12/2015	20:31:07	AR12483A1	26416	GC20A	RTXCLP 0.32mm x 30m
20150612A_013.rst	06/12/2015	20:47:21	AR12543A1	26421	GC20A	RTXCLP 0.32mm x 30m
20150612A_014.rst	06/12/2015	21:03:27	AR12623A1	26426	GC20A	RTXCLP 0.32mm x 30m
20150612A_015.rst	06/12/2015	21:19:33	AR12683A1	26431	GC20A	RTXCLP 0.32mm x 30m
20150612A_016.rst	06/12/2015	21:35:39	AIBLKB1	26387	GC20A	RTXCLP 0.32mm x 30m
20150612A_017.rst	06/12/2015	21:52:03	AR16603B1	26396	GC20A	RTXCLP 0.32mm x 30m
20150612A_018.rst	06/12/2015	22:08:07	GPC60606	GPCBLK1	GC20A	RTXCLP 0.32mm x 30m
20150612A_019.rst	06/12/2015	22:24:13	450194	ABLKS1	GC20A	RTXCLP 0.32mm x 30m
20150612A_020.rst	06/12/2015	22:40:17	450196	ALCSS1	GC20A	RTXCLP 0.32mm x 30m
20150612A_021.rst	06/12/2015	22:56:25	1515542001	F9M21	GC20A	RTXCLP 0.32mm x 30m
20150612A_022.rst	06/12/2015	23:12:33	1515542002	F9M22	GC20A	RTXCLP 0.32mm x 30m
20150612A_023.rst	06/12/2015	23:28:43	1515542003	F9M23	GC20A	RTXCLP 0.32mm x 30m
20150612A_024.rst	06/12/2015	23:44:47	1515542004	F9M24	GC20A	RTXCLP 0.32mm x 30m
20150612A_025.rst	06/13/2015	00:00:53	1515542005	F9M25	GC20A	RTXCLP 0.32mm x 30m
20150612A_026.rst	06/13/2015	00:17:09	1515542006	F9M26	GC20A	RTXCLP 0.32mm x 30m
20150612A_027.rst	06/13/2015	00:33:21	1515542007	F9M27	GC20A	RTXCLP 0.32mm x 30m
20150612A_028.rst	06/13/2015	00:49:27	1515542008	F9M27MS	GC20A	RTXCLP 0.32mm x 30m
20150612A_029.rst	06/13/2015	01:05:33	1515542009	F9M27MSD	GC20A	RTXCLP 0.32mm x 30m
20150612A_030.rst	06/13/2015	01:21:37	1515542010	F9M28	GC20A	RTXCLP 0.32mm x 30m
20150612A_031.rst	06/13/2015	01:37:55	1515542011	F9M29	GC20A	RTXCLP 0.32mm x 30m
20150612A_032.rst	06/13/2015	01:54:01	1515542012	F9M30	GC20A	RTXCLP 0.32mm x 30m
20150612A_033.rst	06/13/2015	02:10:11	1515542013	F9M31	GC20A	RTXCLP 0.32mm x 30m
20150612A_034.rst	06/13/2015	02:26:15	1515542014	F9M32	GC20A	RTXCLP 0.32mm x 30m
20150612A_035.rst	06/13/2015	02:42:21	1515542015	F9M33	GC20A	RTXCLP 0.32mm x 30m
20150612A_036.rst	06/13/2015	02:58:35	1515542016	F9M34	GC20A	RTXCLP 0.32mm x 30m
20150612A_037.rst	06/13/2015	03:14:59	1515542017	F9M35	GC20A	RTXCLP 0.32mm x 30m
20150612A_038.rst	06/13/2015	03:31:05	1515542018	F9M37	GC20A	RTXCLP 0.32mm x 30m
20150612A_039.rst	06/13/2015	03:47:09	1515542019	F9M38	GC20A	RTXCLP 0.32mm x 30m
20150612A_040.rst	06/13/2015	04:03:13	1515542020	F9M39	GC20A	RTXCLP 0.32mm x 30m
20150612A_041.rst	06/13/2015	04:19:21	1515542021	F9M40	GC20A	RTXCLP 0.32mm x 30m
20150612A_042.rst	06/13/2015	04:35:41	1515542022	F9M41	GC20A	RTXCLP 0.32mm x 30m
20150612A_043.rst	06/13/2015	04:51:51		RINSE	GC20A	RTXCLP 0.32mm x 30m
20150612A_044.rst	06/13/2015	05:07:55	AIBLKC1	26387	GC20A	RTXCLP 0.32mm x 30m
20150612A_045.rst	06/13/2015	05:24:01	AR16603C1	26396	GC20A	RTXCLP 0.32mm x 30m
20150612A_046.rst	06/13/2015	05:40:07		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
20150612B_001.rst	06/12/2015	17:49:21	PRIME		GC20B	RTXCLP2 0.32mm x 30m
20150612B_002.rst	06/12/2015	18:05:31	PRIME		GC20B	RTXCLP2 0.32mm x 30m
20150612B_003.rst	06/12/2015	18:21:39	PRIME		GC20B	RTXCLP2 0.32mm x 30m
20150612B_004.rst	06/12/2015	18:37:51	AR16601A2	26394	GC20B	RTXCLP2 0.32mm x 30m
20150612B_005.rst	06/12/2015	18:53:59	AR16602A2	26395	GC20B	RTXCLP2 0.32mm x 30m
20150612B_006.rst	06/12/2015	19:10:11	AR16603A2	26396	GC20B	RTXCLP2 0.32mm x 30m
20150612B_007.rst	06/12/2015	19:26:19	AR16604A2	26397	GC20B	RTXCLP2 0.32mm x 30m
20150612B_008.rst	06/12/2015	19:42:29	AR16605A2	26398	GC20B	RTXCLP2 0.32mm x 30m
20150612B_009.rst	06/12/2015	19:58:51	AR12213A2	26401	GC20B	RTXCLP2 0.32mm x 30m
20150612B_010.rst	06/12/2015	20:15:03	AR12323A2	26406	GC20B	RTXCLP2 0.32mm x 30m
20150612B_011.rst	06/12/2015	20:31:07	AR12423A2	26411	GC20B	RTXCLP2 0.32mm x 30m
20150612B_012.rst	06/12/2015	20:47:21	AR12483A2	26416	GC20B	RTXCLP2 0.32mm x 30m
20150612B_013.rst	06/12/2015	21:03:27	AR12543A2	26421	GC20B	RTXCLP2 0.32mm x 30m
20150612B_014.rst	06/12/2015	21:19:33	AR12623A2	26426	GC20B	RTXCLP2 0.32mm x 30m
20150612B_015.rst	06/12/2015	21:35:39	AR12683A2	26431	GC20B	RTXCLP2 0.32mm x 30m
20150612B_016.rst	06/12/2015	21:52:03	AIBLKB2	26387	GC20B	RTXCLP2 0.32mm x 30m
20150612B_017.rst	06/12/2015	22:08:07	AR16603B2	26396	GC20B	RTXCLP2 0.32mm x 30m
20150612B_018.rst	06/12/2015	22:24:13	GPC60606	GPCBLK1	GC20B	RTXCLP2 0.32mm x 30m
20150612B_019.rst	06/12/2015	22:40:17	450194	ABLKS1	GC20B	RTXCLP2 0.32mm x 30m
20150612B_020.rst	06/12/2015	22:56:25	450196	ALCSS1	GC20B	RTXCLP2 0.32mm x 30m
20150612B_021.rst	06/12/2015	23:12:33	1515542001	F9M21	GC20B	RTXCLP2 0.32mm x 30m
20150612B_022.rst	06/12/2015	23:28:43	1515542002	F9M22	GC20B	RTXCLP2 0.32mm x 30m
20150612B_023.rst	06/12/2015	23:44:47	1515542003	F9M23	GC20B	RTXCLP2 0.32mm x 30m
20150612B_024.rst	06/13/2015	00:00:53	1515542004	F9M24	GC20B	RTXCLP2 0.32mm x 30m
20150612B_025.rst	06/13/2015	00:17:09	1515542005	F9M25	GC20B	RTXCLP2 0.32mm x 30m
20150612B_026.rst	06/13/2015	00:33:21	1515542006	F9M26	GC20B	RTXCLP2 0.32mm x 30m
20150612B_027.rst	06/13/2015	00:49:27	1515542007	F9M27	GC20B	RTXCLP2 0.32mm x 30m
20150612B_028.rst	06/13/2015	01:05:33	1515542008	F9M27MS	GC20B	RTXCLP2 0.32mm x 30m
20150612B_029.rst	06/13/2015	01:21:37	1515542009	F9M27MSD	GC20B	RTXCLP2 0.32mm x 30m
20150612B_030.rst	06/13/2015	01:37:55	1515542010	F9M28	GC20B	RTXCLP2 0.32mm x 30m
20150612B_031.rst	06/13/2015	01:54:01	1515542011	F9M29	GC20B	RTXCLP2 0.32mm x 30m
20150612B_032.rst	06/13/2015	02:10:11	1515542012	F9M30	GC20B	RTXCLP2 0.32mm x 30m
20150612B_033.rst	06/13/2015	02:26:15	1515542013	F9M31	GC20B	RTXCLP2 0.32mm x 30m
20150612B_034.rst	06/13/2015	02:42:21	1515542014	F9M32	GC20B	RTXCLP2 0.32mm x 30m
20150612B_035.rst	06/13/2015	02:58:35	1515542015	F9M33	GC20B	RTXCLP2 0.32mm x 30m
20150612B_036.rst	06/13/2015	03:14:59	1515542016	F9M34	GC20B	RTXCLP2 0.32mm x 30m
20150612B_037.rst	06/13/2015	03:31:05	1515542017	F9M35	GC20B	RTXCLP2 0.32mm x 30m
20150612B_038.rst	06/13/2015	03:47:09	1515542018	F9M37	GC20B	RTXCLP2 0.32mm x 30m
20150612B_039.rst	06/13/2015	04:03:13	1515542019	F9M38	GC20B	RTXCLP2 0.32mm x 30m
20150612B_040.rst	06/13/2015	04:19:21	1515542020	F9M39	GC20B	RTXCLP2 0.32mm x 30m
20150612B_041.rst	06/13/2015	04:35:41	1515542021	F9M40	GC20B	RTXCLP2 0.32mm x 30m
20150612B_042.rst	06/13/2015	04:51:51	1515542022	F9M41	GC20B	RTXCLP2 0.32mm x 30m
20150612B_043.rst	06/13/2015	05:07:55		RINSE	GC20B	RTXCLP2 0.32mm x 30m
20150612B_044.rst	06/13/2015	05:24:01	AIBLKC2	26387	GC20B	RTXCLP2 0.32mm x 30m
20150612B_045.rst	06/13/2015	05:40:07	AR16603C2	26396	GC20B	RTXCLP2 0.32mm x 30m

Batch Worklist

Batch: ENVX/ 21739 Created: 6/5/2015 07:20 Instrument: HBN: 149948

Rule: Sonication Extrcn, Pest/Aclr Analyst: L. Edwards Status: NA

Workorder: 1515542 SDG: F9M21 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	450194	MB for HBN 149948 [ENVX/21739]	~~3.00 g~~ 30.00 g	5 mL		MB	4		SNCTNPA.4P	6158	6/15/2015	6/4/2015	
2	450195	LCS-P for HBN 149948 [ENVX/217	~~3.00 g~~ 30.00 g			LCS-P	4		SNCTNPA.4P	6158	6/15/2015	6/4/2015	
3	450196	LCS-A for HBN 149948 [ENVX/217	~~3.00 g~~ 30.00 g			LCS-A	4		SNCTNPA.4P	6158	6/15/2015	6/4/2015	
4	1515542001	F9M21	30.03 g			SAMPLE	4	1515542001-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
5	1515542002	F9M22	30.25 g			SAMPLE	4	1515542002-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
6	1515542003	F9M23	30.46 g			SAMPLE	4	1515542003-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
7	1515542004	F9M24	30.06 g			SAMPLE	4	1515542004-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
8	1515542005	F9M25	30.25 g			SAMPLE	4	1515542005-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
9	1515542006	F9M26	30.36 g			SAMPLE	4	1515542006-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
10	1515542007	F9M27	30.10 g			SAMPLE	4	1515542007-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
11	1515542008	F9M27MS	30.10 g			MS	4	1515542008-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
12	1515542009	F9M27MSD	30.10 g			MSD	4	1515542009-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
13	1515542010	F9M28	30.18 g			SAMPLE	4	1515542010-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
14	1515542011	F9M29	30.15 g			SAMPLE	4	1515542011-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
15	1515542012	F9M30	30.33 g			SAMPLE	4	1515542012-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
16	1515542013	F9M31	30.33 g			SAMPLE	4	1515542013-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
17	1515542014	F9M32	30.06 g			SAMPLE	4	1515542014-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
18	1515542015	F9M33	30.15 g			SAMPLE	4	1515542015-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
19	1515542016	F9M34	30.05 g			SAMPLE	4	1515542016-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
20	1515542017	F9M35	30.05 g			SAMPLE	4	1515542017-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
21	1515542018	F9M37	30.05 g			SAMPLE	4	1515542018-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
22	1515542019	F9M38	30.31 g			SAMPLE	4	1515542019-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
23	1515542020	F9M39	30.34 g			SAMPLE	4	1515542020-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
24	1515542021	F9M40	30.20 g			SAMPLE	4	1515542021-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	
25	1515542022	F9M41	30.46 g			SAMPLE	4	1515542022-A	SNCTNPA.4P	5936	6/13/2015	6/4/2015	

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Batch Worklist

Batch: ENVX/ 21754 Created: 6/8/2015 08:16 Instrument: GPC06 HBN: 150061

Rule: GPC Pest/Aro Analyst: L. Edwards Status: NA

Workorder: 1515542 SDG: F9M21 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	450448	GB for HBN 150061 [ENVX/21754]				GB	4		E.GPC.PA.P	6158		6/9/2015	6/6/2015
2	450194	MB for HBN 149948 [ENVX/21739]	30 grams	5 mL		MB	4		E.GPC.PA.P	6158		6/9/2015	6/6/2015
3	450195	LCS-P for HBN 149948 [ENVX/217	30 grams	5 mL		LCS-P	4		E.GPC.PA.P	6158		6/9/2015	6/6/2015
4	450196	LCS-A for HBN 149948 [ENVX/217	30 grams	5 mL		LCS-A	4		E.GPC.PA.P	6158		6/9/2015	6/6/2015
5	1515542001	F9M21	30.03 grams	5 mL		SAMPLE	4	1515542001-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
6	1515542002	F9M22	30.25 grams	5 mL		SAMPLE	4	1515542002-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
7	1515542003	F9M23	30.46 grams	5 mL		SAMPLE	4	1515542003-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
8	1515542004	F9M24	30.06 grams	5 mL		SAMPLE	4	1515542004-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
9	1515542005	F9M25	30.25 grams	5 mL		SAMPLE	4	1515542005-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
10	1515542006	F9M26	30.36 grams	5 mL		SAMPLE	4	1515542006-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
11	1515542007	F9M27	30.1 grams	5 mL		SAMPLE	4	1515542007-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
12	1515542008	F9M27MS	30.1 grams	5 mL		MS	4	1515542008-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
13	1515542009	F9M27MSD	30.1 grams	5 mL		MSD	4	1515542009-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
14	1515542010	F9M28	30.18 grams	5 mL		SAMPLE	4	1515542010-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
15	1515542011	F9M29	30.15 grams	5 mL		SAMPLE	4	1515542011-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
16	1515542012	F9M30	30.33 grams	5 mL		SAMPLE	4	1515542012-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
17	1515542013	F9M31	30.33 grams	5 mL		SAMPLE	4	1515542013-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
18	1515542014	F9M32	30.06 grams	5 mL		SAMPLE	4	1515542014-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
19	1515542015	F9M33	30.15 grams	5 mL		SAMPLE	4	1515542015-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
20	1515542016	F9M34	30.05 grams	5 mL		SAMPLE	4	1515542016-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
21	1515542017	F9M35	30.05 grams	5 mL		SAMPLE	4	1515542017-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
22	1515542018	F9M37	30.05 grams	5 mL		SAMPLE	4	1515542018-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
23	1515542019	F9M38	30.31 grams	5 mL		SAMPLE	4	1515542019-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
24	1515542020	F9M39	30.34 grams	5 mL		SAMPLE	4	1515542020-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
25	1515542021	F9M40	30.2 grams	5 mL		SAMPLE	4	1515542021-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015
26	1515542022	F9M41	30.46 grams	5 mL		SAMPLE	4	1515542022-A	E.GPC.PA.P	5936		6/9/2015	6/6/2015

ALS Laboratory Group GPC Injection Logbook

Method:	**SOM01.2**	**Analytical Method**	**Pest/ARO**	**Work Order ID:**	**1515542**	**Horizon Batch ID:**	**150061**
Account:	**08201**	**Instrument ID:**	**GPC06**	**Column ID:**	**8181346-1 690492-1**	**Flow Rate:**	**5mL/min.**
Load Date:	**6/6/15**	**Load Time:**	**18:13**	**Pressure (PSI)**	**159**	**PST/ARO Weekly ID:**	**6/3/15**

Position	ALS Sample ID	Client Sample ID	Sample Notes/Comments
1	450448	GPC06 Blank	
2	450194	MB for HBN 149948	
3	450195	LCS-P for HBN 149948	
4	450196	LCS-A for HBN 149948	
5	1515542001	F9M21	
6	1515542002	F9M22	
7	1515542003	F9M23	
8	1515542004	F9M24	
9	1515542005	F9M25	
10	1515542006	F9M26	
11	1515542007	F9M27	
12	1515542008	F9M27MS	
13	1515542009	F9M27MSD	
14	1515542008	F9M27MS	
15	1515542009	F9M27MSD	
16	1515542010	F9M28	
17	1515542011	F9M29	
18	1515542012	F9M30	
19	1515542013	F9M31	
20	1515542014	F9M32	
21	1515542015	F9M33	
22	1515542016	F9M34	
23	1515542017	F9M35	
24	1515542018	F9M37	
25	1515542019	F9M38	
26	1515542020	F9M39	
27	1515542021	F9M40	
28	1515542022	F9M41	
29	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/F9M2/ Horizon Extraction HBN 14948

Work Order# 151554-2 Sample #'s 1-22 Extraction Method SOM 01.2

SOP: OE-EM-SOM P Analytical Fraction ARO Matrix SOIL

Date samples weighed out 6/5/15 1000 by Peter Phan balance # 120212065

See extraction batch sheet for sample weights/volumes, initial pH's (waters), and final concentration volumes.

Extraction: Date/Time 6/8/15 1300 Stop Date/Time (CLLE's/Soxlet) 6/5/15 1200 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	Burdick
Lot Number	18985		92673	DM245	DM496
Amount	per SOP		per SOP	per SOP	60mL

	Surrogate/DMC STD	LCS Standard	MS/MSD Standard	RLVS Standard
Standard ID	26390	26434	~~26392~~ 26435	
Spiked Amount	1mL	~~0.2mL~~ 1mL	~~0.2mL~~ 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 6/5/15 1500 by CS Comments TEMP WAS 67°C

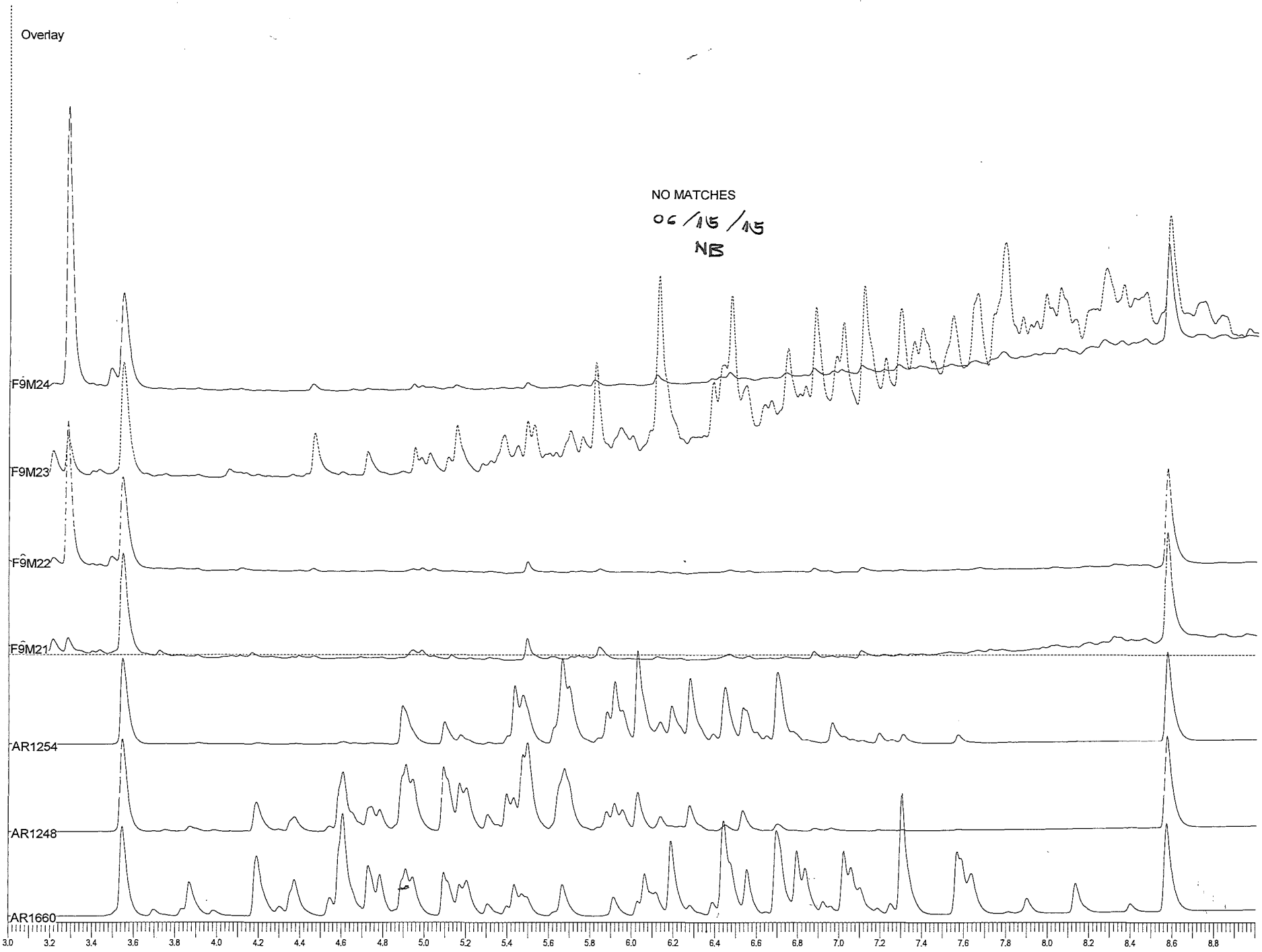
Final Concentration: Date/Time 6/8/15 13:00 by [illegible] Comments The Temp was 79°C

Florisil (pesticides only) Date/Time — by — Florisil Column Lot # —

Comments

Checker Signature [signature] **Date** 6/8/15

Plot Title	Start Time	End Time	Scale	Offset
20150612A_024.raw Sample Name : 1515542004 Sample Number: 24 Instrument File Name: G:\gce20\20150612\20_som_acq_aros	3.00	9.00	220.00	-65.00
20150612A_022.raw Sample Name : 1515542002 Sample Number: 22 Instrument File Name: G:\gce20\20150612\20_som_acq_aros	3.00	9.00	220.00	-35.00
20150612A_013.raw Sample Name : AR12543A1 Sample Number: 13 Instrument File Name: G:\gce20\20150612\20_som_acq_aros	3.00	9.00	110.00	7.00
20150612A_006.raw Sample Name : AR16603A1 Sample Number: 06 Instrument File Name: G:\gce20\20150612\20_som_acq_aros	3.00	9.00	110.00	21.00
20150612A_023.raw Sample Name : 1515542003 Sample Number: 23 Instrument File Name: G:\gce20\20150612\20_som_acq_aros	3.00	9.00	220.00	-50.00
20150612A_021.raw Sample Name : 1515542001 Sample Number: 21 Instrument File Name: G:\gce20\20150612\20_som_acq_aros	3.00	9.00	220.00	-20.00
20150612A_012.raw Sample Name : AR12483A1 Sample Number: 12 Instrument File Name: G:\gce20\20150612\20_som_acq_aros	3.00	9.00	100.00	15.00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4.2
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4.8
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7.2
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8.6
8.8

Plot Title		Start Time	End Time	Scale	Offset
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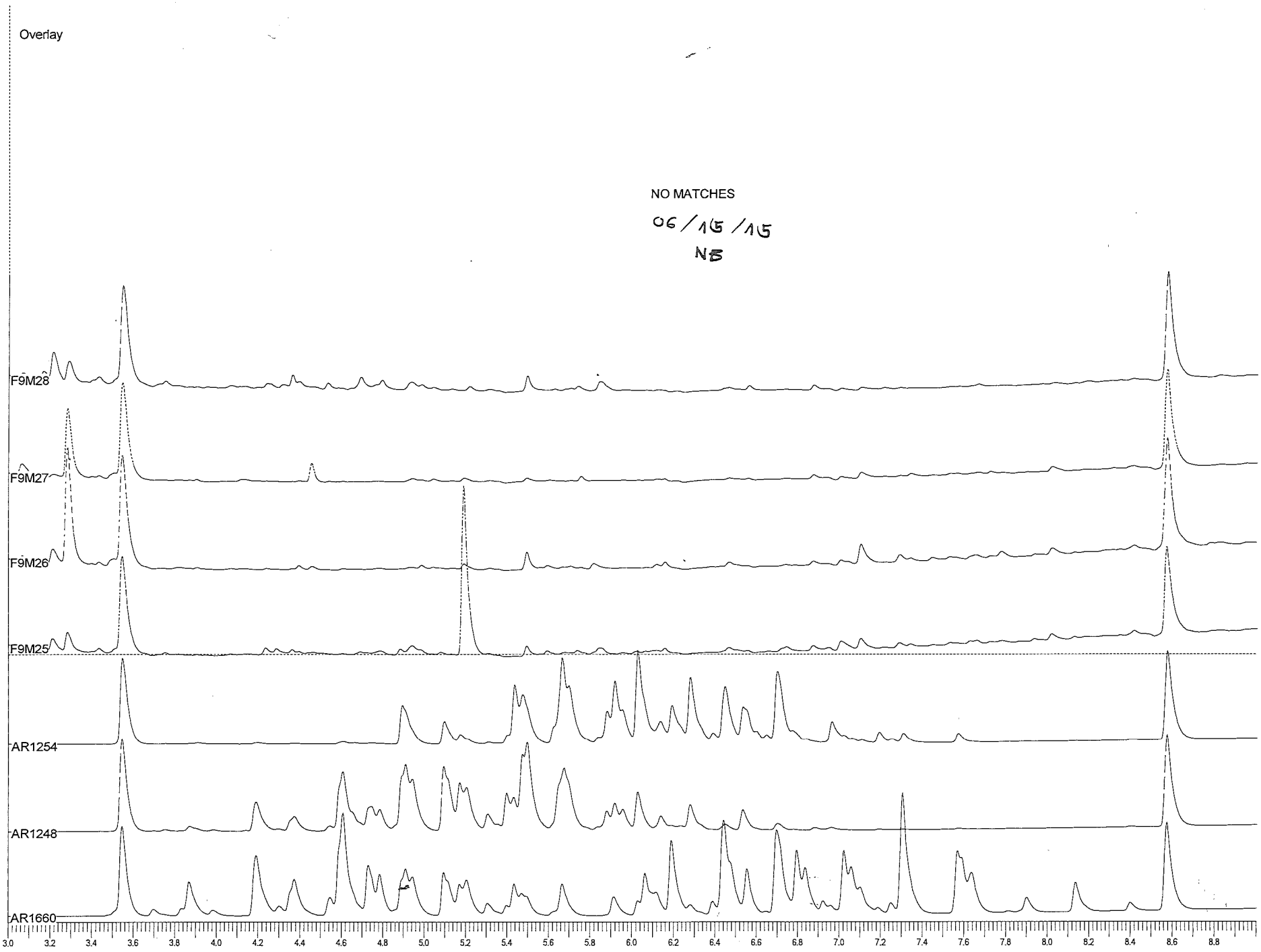
Sample Number:	30				
Instrument File Name:	G:\gce20\20150612\20_som_acq_aros				
20150612A_026.raw		3.00	9.00	220.00	-35.00
Sample Name :	1515542006				
Sample Number:	26				
Instrument File Name:	G:\gce20\20150612\20_som_acq_aros				
20150612A_013.raw		3.00	9.00	110.00	7.00
Sample Name :	AR12543A1				
Sample Number:	13				
Instrument File Name:	G:\gce20\20150612\20_som_acq_aros				
20150612A_006.raw		3.00	9.00	110.00	21.00
Sample Name :	AR16603A1				
Sample Number:	06				
Instrument File Name:	G:\gce20\20150612\20_som_acq_aros				
20150612A_027.raw		3.00	9.00	220.00	-50.00
Sample Name :	1515542007				
Sample Number:	27				
Instrument File Name:	G:\gce20\20150612\20_som_acq_aros				
20150612A_025.raw		3.00	9.00	220.00	-20.00
Sample Name :	1515542005				
Sample Number:	25				
Instrument File Name:	G:\gce20\20150612\20_som_acq_aros				
20150612A_012.raw		3.00	9.00	100.00	15.00
Sample Name :	AR12483A1				
Sample Number:	12				
Instrument File Name:	G:\gce20\20150612\20_som_acq_aros				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AR1660
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8.6
8.8

Plot Title		Start Time	End Time	Scale	Offset
20150612A_034.raw		3.00	9.00	220.00	-65.00
Sample Name :	1515542014				
Sample Number:	34				
Instrument File Name:	G:\gce20\20150612\20_som_acq_aros				
20150612A_032.raw		3.00	9.00	220.00	-35.00
Sample Name :	1515542012				
Sample Number:	32				
Instrument File Name:	G:\gce20\20150612\20_som_acq_aros				
20150612A_013.raw		3.00	9.00	110.00	7.00
Sample Name :	AR12543A1				
Sample Number:	13				
Instrument File Name:	G:\gce20\20150612\20_som_acq_aros				
20150612A_006.raw		3.00	9.00	110.00	21.00
Sample Name :	AR16603A1				
Sample Number:	06				
Instrument File Name:	G:\gce20\20150612\20_som_acq_aros				
20150612A_033.raw		3.00	9.00	220.00	-50.00
Sample Name :	1515542013				
Sample Number:	33				
Instrument File Name:	G:\gce20\20150612\20_som_acq_aros				
20150612A_031.raw		3.00	9.00	220.00	-20.00
Sample Name :	1515542011				
Sample Number:	31				
Instrument File Name:	G:\gce20\20150612\20_som_acq_aros				
20150612A_012.raw		3.00	9.00	100.00	15.00
Sample Name :	AR12483A1				
Sample Number:	12				
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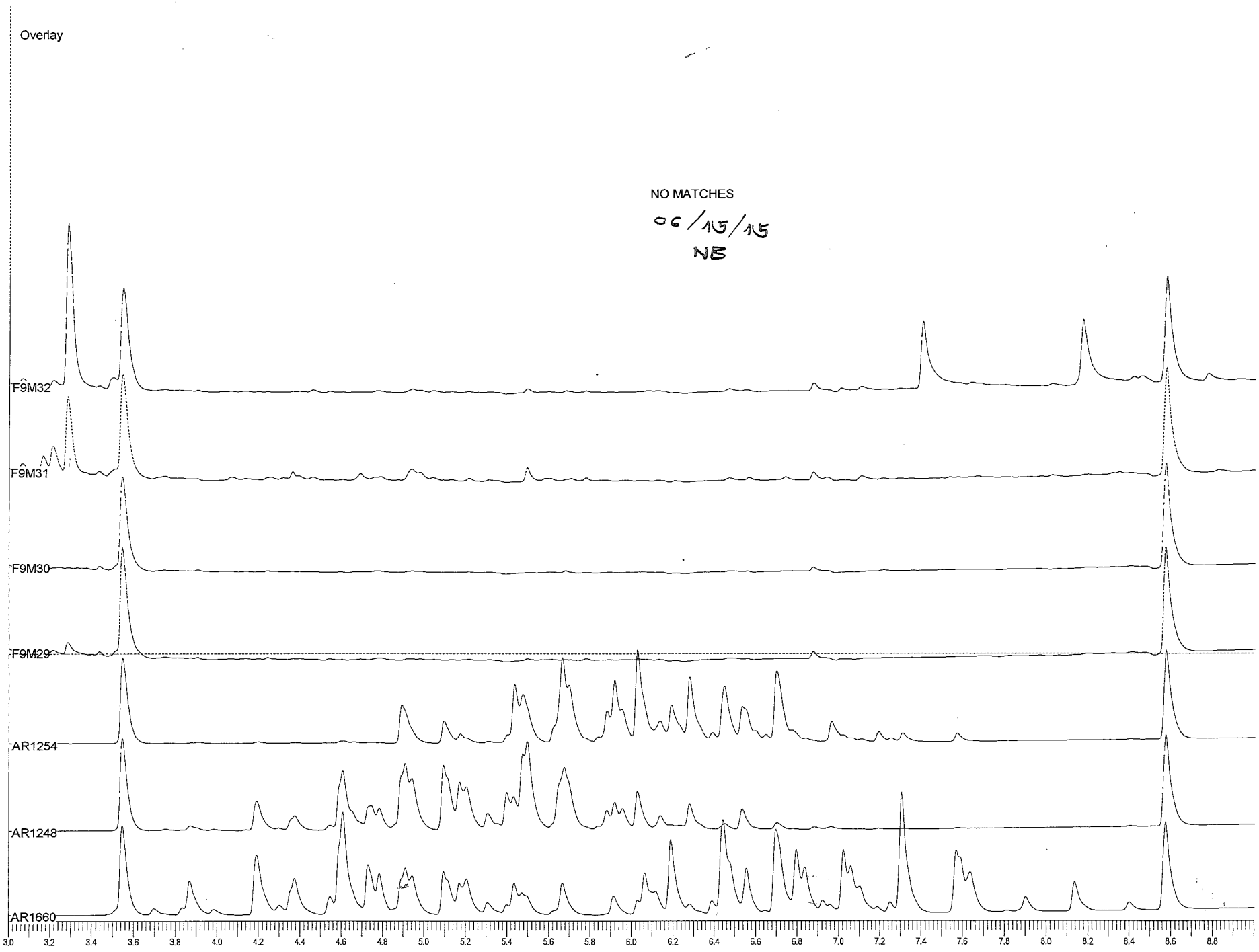
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8.0
8.2
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8.6
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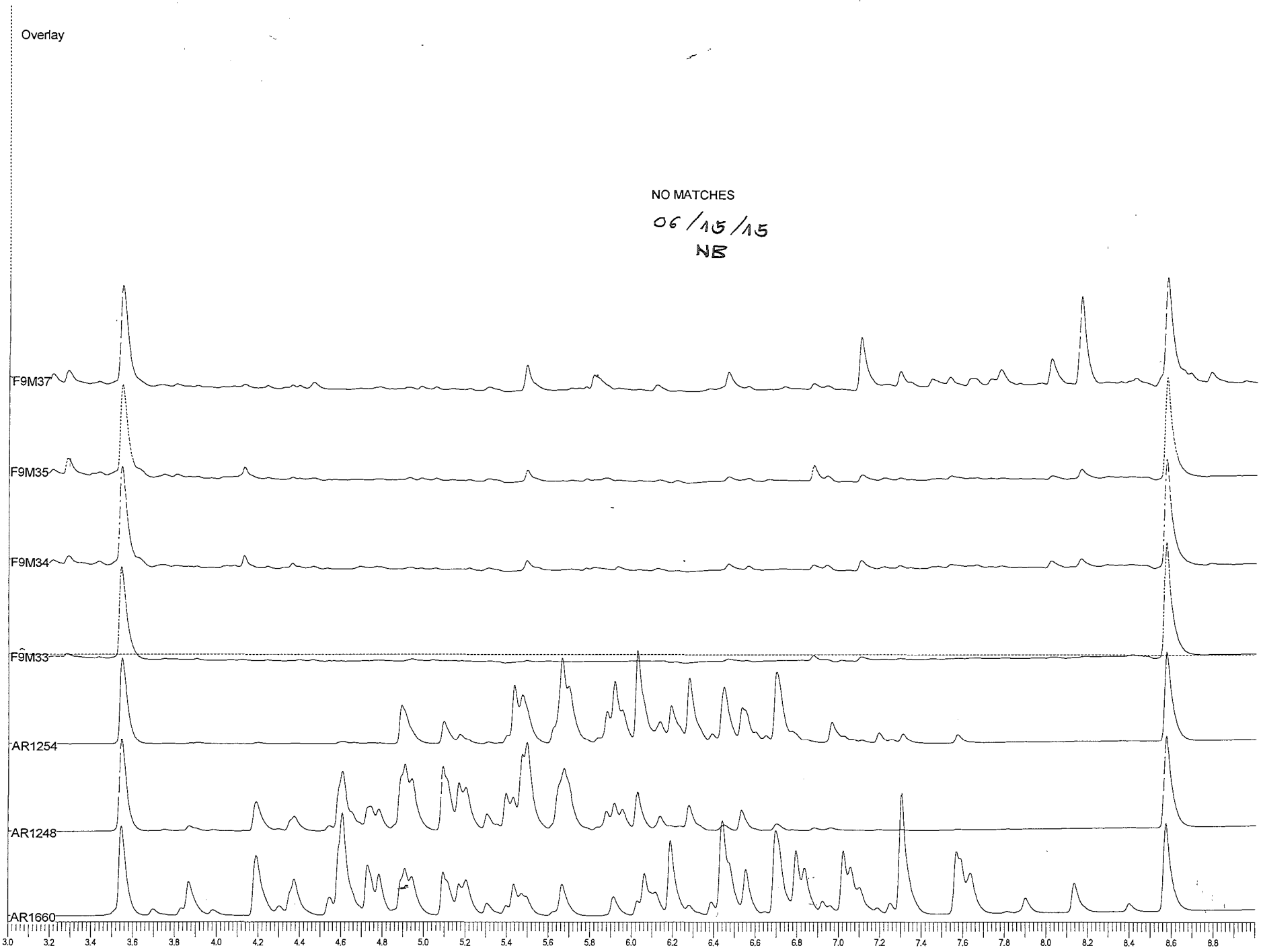
Plot Title	Start Time	End Time	Scale	Offset
20150612A_038.raw Sample Name : 1515542018 Sample Number: 38 Instrument File Name: G:\gce20\20150612\20_som_acq_aros	3.00	9.00	220.00	-65.00
20150612A_036.raw Sample Name : 1515542016 Sample Number: 36 Instrument File Name: G:\gce20\20150612\20_som_acq_aros	3.00	9.00	220.00	-35.00
20150612A_013.raw Sample Name : AR12543A1 Sample Number: 13 Instrument File Name: G:\gce20\20150612\20_som_acq_aros	3.00	9.00	110.00	7.00
20150612A_006.raw Sample Name : AR16603A1 Sample Number: 06 Instrument File Name: G:\gce20\20150612\20_som_acq_aros	3.00	9.00	110.00	21.00
20150612A_037.raw Sample Name : 1515542017 Sample Number: 37 Instrument File Name: G:\gce20\20150612\20_som_acq_aros	3.00	9.00	220.00	-50.00
20150612A_035.raw Sample Name : 1515542015 Sample Number: 35 Instrument File Name: G:\gce20\20150612\20_som_acq_aros	3.00	9.00	220.00	-20.00
20150612A_012.raw Sample Name : AR12483A1 Sample Number: 12 Instrument File Name: G:\gce20\20150612\20_som_acq_aros	3.00	9.00	100.00	15.00

RECEIVED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AR1254
AR1248
AR1660
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3.2
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3.8
4.0
4.2
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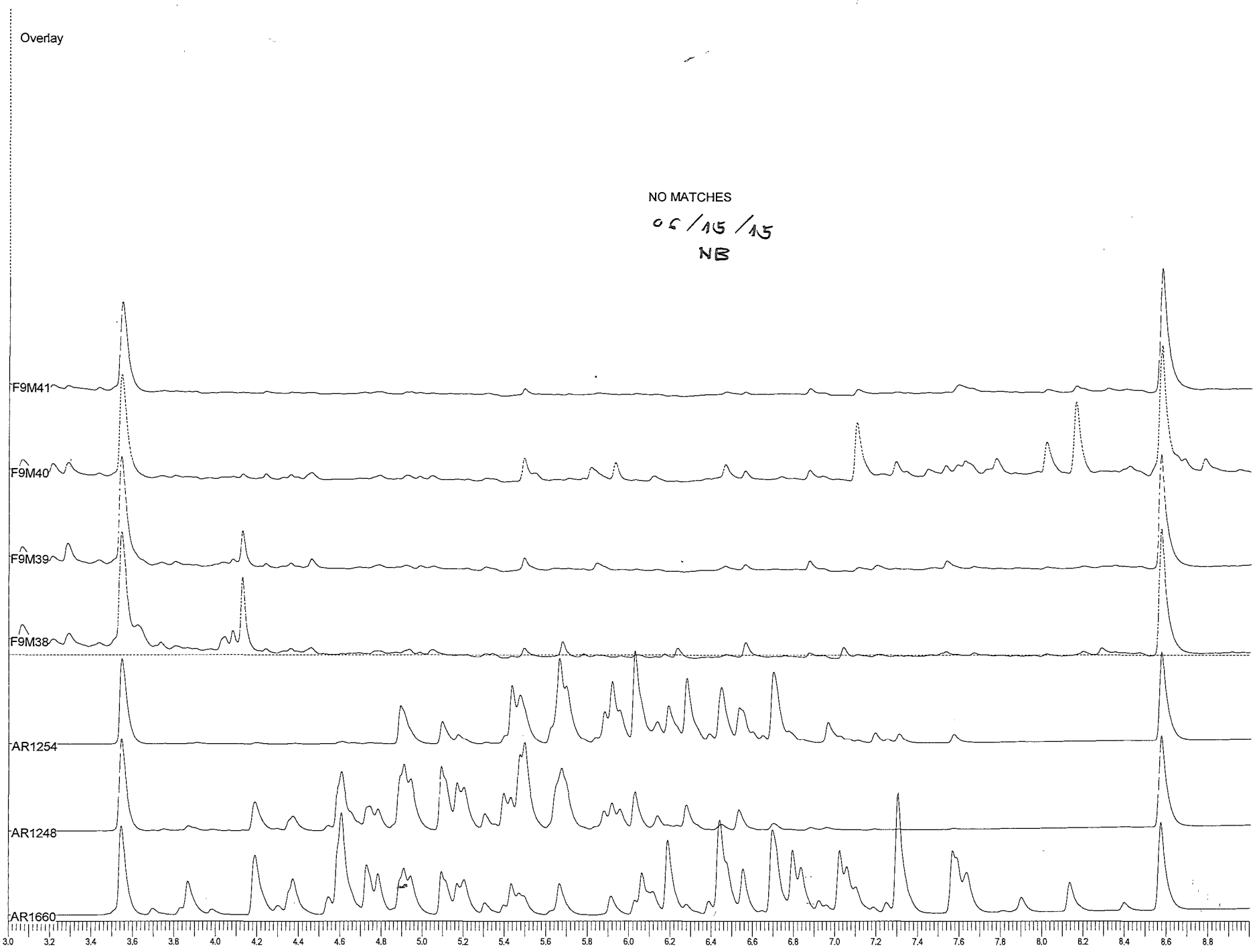
8.8

Plot Title	Start Time	End Time	Scale	Offset
20150612A_042.raw Sample Name : 1515542022 Sample Number: 42 Instrument File Name: G:\gce20\20150612\20_som_acq_aros	3.00	9.00	220.00	-65.00
20150612A_040.raw Sample Name : 1515542020 Sample Number: 40 Instrument File Name: G:\gce20\20150612\20_som_acq_aros	3.00	9.00	220.00	-35.00
20150612A_013.raw Sample Name : AR12543A1 Sample Number: 13 Instrument File Name: G:\gce20\20150612\20_som_acq_aros	3.00	9.00	110.00	7.00
20150612A_006.raw Sample Name : AR16603A1 Sample Number: 06 Instrument File Name: G:\gce20\20150612\20_som_acq_aros	3.00	9.00	110.00	21.00
20150612A_041.raw Sample Name : 1515542021 Sample Number: 41 Instrument File Name: G:\gce20\20150612\20_som_acq_aros	3.00	9.00	220.00	-50.00
20150612A_039.raw Sample Name : 1515542019 Sample Number: 39 Instrument File Name: G:\gce20\20150612\20_som_acq_aros	3.00	9.00	220.00	-20.00
20150612A_012.raw Sample Name : AR12483A1 Sample Number: 12 Instrument File Name: G:\gce20\20150612\20_som_acq_aros	3.00	9.00	100.00	15.00


Overlay
NO MATCHES
05/15/15
NB
F9M41
F9M40
F9M39
F9M38
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

STANDARD REPORT

Working Standard - PSTCLP SURR

PSTCLP SURR		Description - PSTCLP TCX/DCB 10/20 INT
Standard: 26365	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: INT	**Lab Lot:** EGC141212001	**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
21716	CLP SURR	CLP SURR STOCK	A093842	5 mL	06/30/2019
23771	Hexanes	Hexanes DJ160	DJ160	45 mL	06/10/2024

STANDARD REPORT

Working Standard - PSTCLP IBLK

PSTCLP IBLK		Description - PSTCLP IBLK 0.02/0.04
Standard: 26387	**Created By:** S. Sagers	**Amount:** 500 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212014	**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
23771	Hexanes	Hexanes DJ160	DJ160	499 mL	06/10/2024
26365	PSTCLP SURR	PSTCLP TCX/DCB 10/20 INT	EGC141212001	1 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 1660

AROCLP 1660		Description - AROCLP 1660 2/4/40 INT
Standard: 26369	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: INT	**Lab Lot:** EGC141212002	**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
23771	Hexanes	Hexanes DJ160	DJ160	46 mL	06/10/2024
26368	AROCLP SURR	AROCLP SURR 50/100 INT	EGC141212001	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 1221

AROCLP 1221		Description - AROCLP 1221 2/4/40 INT
Standard: 26370	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: INT	**Lab Lot:** EGC141212003	**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
23771	Hexanes	Hexanes DJ160	DJ160	46 mL	06/10/2024
26368	AROCLP SURR	AROCLP SURR 50/100 INT	EGC141212001	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 1232

AROCLP 1232		Description - AROCLP 1232 2/4/40 INT
Standard: 26371	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: INT	**Lab Lot:** EGC141212004	**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
23771	Hexanes	Hexanes DJ160	DJ160	46 mL	06/10/2024
26368	AROCLP SURR	AROCLP SURR 50/100 INT	EGC141212001	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 1242

AROCLP 1242		Description - AROCLP 1242 2/4/40 INT
Standard: 26372	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: INT	**Lab Lot:** EGC141212005	**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
23771	Hexanes	Hexanes DJ160	DJ160	46 mL	06/10/2024
26368	AROCLP SURR	AROCLP SURR 50/100 INT	EGC141212001	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 1248

AROCLP 1248		Description - AROCLP 1248 2/4/40 INT
Standard: 26373	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: INT	**Lab Lot:** EGC141212006	**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
23771	Hexanes	Hexanes DJ160	DJ160	46 mL	06/10/2024
26368	AROCLP SURR	AROCLP SURR 50/100 INT	EGC141212001	2 mL	06/12/2015

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STANDARD REPORT

Working Standard - AROCLP 1254

AROCLP 1254			Description - AROCLP 1254 2/4/40 INT
Standard: 26374	**Created By:** S. Sagers	**Amount:** 50 mL	
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015	
MFG Lot: INT	**Lab Lot:** EGC141212007	**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
23771	Hexanes	Hexanes DJ160	DJ160	46 mL	06/10/2024
26368	AROCLP SURR	AROCLP SURR 50/100 INT	EGC141212001	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 1262

AROCLP 1262		Description - AROCLP 1262 2/4/40 INT
Standard: 26375	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: INT	**Lab Lot:** EGC141212008	**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
23771	Hexanes	Hexanes DJ160	DJ160	46 mL	06/10/2024
26368	AROCLP SURR	AROCLP SURR 50/100 INT	EGC141212001	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 1268

AROCLP 1268		Description - AROCLP 1268 2/4/40 INT
Standard: 26376	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: INT	**Lab Lot:** EGC141212009	**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
23771	Hexanes	Hexanes DJ160	DJ160	46 mL	06/10/2024
26368	AROCLP SURR	AROCLP SURR 50/100 INT	EGC141212001	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 16601

AROCLP 16601		Description - AROCLP 16601 .005/.01/.1
Standard: 26394	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212010	**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
23771	Hexanes	Hexanes DJ160	DJ160	99.75 mL	06/10/2024
26369	AROCLP 1660	AROCLP 1660 2/4/40 INT	EGC141212002	0.25 mL	06/12/2015

01326

STANDARD REPORT

Working Standard - AROCLP 16602

AROCLP 16602		Description - AROCLP 16602 .01/.02/.2
Standard: 26395	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212011	**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
23771	Hexanes	Hexanes DJ160	DJ160	99.5 mL	06/10/2024
26369	AROCLP 1660	AROCLP 1660 2/4/40 INT	EGC141212002	0.5 mL	06/12/2015

01327

STANDARD REPORT

Working Standard - AROCLP 16603

AROCLP 16603		Description - AROCLP 16603 .02/.04/.4
Standard: 26396	**Created By:** S. Sagers	**Amount:** 200 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212012	**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
23771	Hexanes	Hexanes DJ160	DJ160	198 mL	06/10/2024
26369	AROCLP 1660	AROCLP 1660 2/4/40 INT	EGC141212002	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 16604

AROCLP 16604		Description - AROCLP 16604 .04/.08/.8
Standard: 26397	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212013	**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
23771	Hexanes	Hexanes DJ160	DJ160	98 mL	06/10/2024
26369	AROCLP 1660	AROCLP 1660 2/4/40 INT	EGC141212002	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 16605

AROCLP 16605		Description - AROCLP 16605 .08/.16/1.6
Standard: 26398	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212014	**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
23771	Hexanes	Hexanes DJ160	DJ160	96 mL	06/10/2024
26369	AROCLP 1660	AROCLP 1660 2/4/40 INT	EGC141212002	4 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12211

AROCLP 12211		Description - AROCLP 12211 .005/.01/.1
Standard: 26399	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212015	**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
23771	Hexanes	Hexanes DJ160	DJ160	49.875 mL	06/10/2024
26370	AROCLP 1221	AROCLP 1221 2/4/40 INT	EGC141212003	0.125 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12212

AROCLP 12212		Description - AROCLP 12212 .01/.02/.2
Standard: 26400	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212016	**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
23771	Hexanes	Hexanes DJ160	DJ160	49.75 mL	06/10/2024
26370	AROCLP 1221	AROCLP 1221 2/4/40 INT	EGC141212003	0.25 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12213

AROCLP 12213		Description - AROCLP 12213 .02/.04/.4
Standard: 26401	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212017	**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
23771	Hexanes	Hexanes DJ160	DJ160	99 mL	06/10/2024
26370	AROCLP 1221	AROCLP 1221 2/4/40 INT	EGC141212003	1 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12214

AROCLP 12214		Description - AROCLP 12214 .04/.08/.8
Standard: 26402	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212018	**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
23771	Hexanes	Hexanes DJ160	DJ160	49 mL	06/10/2024
26370	AROCLP 1221	AROCLP 1221 2/4/40 INT	EGC141212003	1 mL	06/12/2015

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STANDARD REPORT

Working Standard - AROCLP 12215

AROCLP 12215		Description - AROCLP 12215 .08/.16/1.6
Standard: 26403	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212019	**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
23771	Hexanes	Hexanes DJ160	DJ160	48 mL	06/10/2024
26370	AROCLP 1221	AROCLP 1221 2/4/40 INT	EGC141212003	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12321

AROCLP 12321		Description - AROCLP 12321 .005/.01/.1
Standard: 26404	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212020	**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
23771	Hexanes	Hexanes DJ160	DJ160	49.875 mL	06/10/2024
26371	AROCLP 1232	AROCLP 1232 2/4/40 INT	EGC141212004	0.125 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12322

AROCLP 12322		Description - AROCLP 12322 .01/.02/.2
Standard: 26405	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212021	**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
23771	Hexanes	Hexanes DJ160	DJ160	49.75 mL	06/10/2024
26371	AROCLP 1232	AROCLP 1232 2/4/40 INT	EGC141212004	0.25 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12323

AROCLP 12323	Description - AROCLP 12323 .02/.04/.4

Standard: 26406	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212022	**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
23771	Hexanes	Hexanes DJ160	DJ160	99 mL	06/10/2024
26371	AROCLP 1232	AROCLP 1232 2/4/40 INT	EGC141212004	1 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12324

AROCLP 12324		Description - AROCLP 12324 .04/.08/.8
Standard: 26407	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212023	**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
23771	Hexanes	Hexanes DJ160	DJ160	49 mL	06/10/2024
26371	AROCLP 1232	AROCLP 1232 2/4/40 INT	EGC141212004	1 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12325

AROCLP 12325		Description - AROCLP 12325 .08/.16/1.6
Standard: 26408	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212024	**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
23771	Hexanes	Hexanes DJ160	DJ160	48 mL	06/10/2024
26371	AROCLP 1232	AROCLP 1232 2/4/40 INT	EGC141212004	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12421

AROCLP 12421		Description - AROCLP 12421 .005/.01/.1
Standard: 26409	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212025	**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
23771	Hexanes	Hexanes DJ160	DJ160	99.75 mL	06/10/2024
26372	AROCLP 1242	AROCLP 1242 2/4/40 INT	EGC141212005	0.25 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12422

AROCLP 12422		Description - AROCLP 12422 .01/.02/.2
Standard: 26410	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212026	**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
23771	Hexanes	Hexanes DJ160	DJ160	99.5 mL	06/10/2024
26372	AROCLP 1242	AROCLP 1242 2/4/40 INT	EGC141212005	0.5 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12423

AROCLP 12423 — **Description - AROCLP 12423 .02/.04/.4**

Standard: 26411	**Created By:** S. Sagers	**Amount:** 200 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212027	**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
23771	Hexanes	Hexanes DJ160	DJ160	198 mL	06/10/2024
26372	AROCLP 1242	AROCLP 1242 2/4/40 INT	EGC141212005	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12424

AROCLP 12424		Description - AROCLP 12424 .04/.08/.8
Standard: 26412	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212028	**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
23771	Hexanes	Hexanes DJ160	DJ160	98 mL	06/10/2024
26372	AROCLP 1242	AROCLP 1242 2/4/40 INT	EGC141212005	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12425

AROCLP 12425		Description - AROCLP 12425 .08/.16/1.6
Standard: 26413	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212029	**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
23771	Hexanes	Hexanes DJ160	DJ160	96 mL	06/10/2024
26372	AROCLP 1242	AROCLP 1242 2/4/40 INT	EGC141212005	4 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12481

AROCLP 12481		Description - AROCLP 12481 .005/.01/.1
Standard: 26414	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212030	**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
23771	Hexanes	Hexanes DJ160	DJ160	99.75 mL	06/10/2024
26373	AROCLP 1248	AROCLP 1248 2/4/40 INT	EGC141212006	0.25 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12482

AROCLP 12482		Description - AROCLP 12482 .01/.02/.2
Standard: 26415	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212031	**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
23771	Hexanes	Hexanes DJ160	DJ160	99.5 mL	06/10/2024
26373	AROCLP 1248	AROCLP 1248 2/4/40 INT	EGC141212006	0.5 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12483

AROCLP 12483		Description - AROCLP 12483 .02/.04/.4
Standard: 26416	**Created By:** S. Sagers	**Amount:** 200 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212032	**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
23771	Hexanes	Hexanes DJ160	DJ160	198 mL	06/10/2024
26373	AROCLP 1248	AROCLP 1248 2/4/40 INT	EGC141212006	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12484

AROCLP 12484		Description - AROCLP 12484 .04/.08/.8
Standard: 26417	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212033	**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
23771	Hexanes	Hexanes DJ160	DJ160	98 mL	06/10/2024
26373	AROCLP 1248	AROCLP 1248 2/4/40 INT	EGC141212006	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12485

AROCLP 12485	Description - AROCLP 12485 .08/.16/1.6

Standard: 26418	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212034	**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
23771	Hexanes	Hexanes DJ160	DJ160	96 mL	06/10/2024
26373	AROCLP 1248	AROCLP 1248 2/4/40 INT	EGC141212006	4 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12541

AROCLP 12541		Description - AROCLP 12541 .005/.01/.1
Standard: 26419	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212035	**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
23771	Hexanes	Hexanes DJ160	DJ160	99.75 mL	06/10/2024
26374	AROCLP 1254	AROCLP 1254 2/4/40 INT	EGC141212007	0.25 mL	06/12/2015

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STANDARD REPORT

Working Standard - AROCLP 12542

AROCLP 12542		Description - AROCLP 12542 .01/.02/.2
Standard: 26420	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212036	**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
23771	Hexanes	Hexanes DJ160	DJ160	99.5 mL	06/10/2024
26374	AROCLP 1254	AROCLP 1254 2/4/40 INT	EGC141212007	0.5 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12543

AROCLP 12543		Description - AROCLP 12543 .02/.04/.4
Standard: 26421	**Created By:** S. Sagers	**Amount:** 200 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212037	**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
23771	Hexanes	Hexanes DJ160	DJ160	198 mL	06/10/2024
26374	AROCLP 1254	AROCLP 1254 2/4/40 INT	EGC141212007	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12544

AROCLP 12544		Description - AROCLP 12544 .04/.08/.8
Standard: 26422	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212038	**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
23771	Hexanes	Hexanes DJ160	DJ160	98 mL	06/10/2024
26374	AROCLP 1254	AROCLP 1254 2/4/40 INT	EGC141212007	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12545

AROCLP 12545		Description - AROCLP 12545 .08/.16/1.6
Standard: 26423	Created By: S. Sagers	Amount: 100 mL
MFG: ALS	Create Date: 12/12/2014	Expires: 06/12/2015
MFG Lot: WS	Lab Lot: EGC141212039	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
23771	Hexanes	Hexanes DJ160	DJ160	96 mL	06/10/2024
26374	AROCLP 1254	AROCLP 1254 2/4/40 INT	EGC141212007	4 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12621

AROCLP 12621		Description - AROCLP 12621 .005/.01/.1
Standard: 26424	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212040	**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
23771	Hexanes	Hexanes DJ160	DJ160	49.875 mL	06/10/2024
26375	AROCLP 1262	AROCLP 1262 2/4/40 INT	EGC141212008	0.125 mL	06/12/2015

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STANDARD REPORT

Working Standard - AROCLP 12622

AROCLP 12622		Description - AROCLP 12622 .01/.02/.2
Standard: 26425	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212041	**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
23771	Hexanes	Hexanes DJ160	DJ160	49.75 mL	06/10/2024
26375	AROCLP 1262	AROCLP 1262 2/4/40 INT	EGC141212008	0.25 mL	06/12/2015

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STANDARD REPORT

Working Standard - AROCLP 12623

AROCLP 12623		Description - AROCLP 12623 .02/.04/.4
Standard: 26426	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212042	**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
23771	Hexanes	Hexanes DJ160	DJ160	99 mL	06/10/2024
26375	AROCLP 1262	AROCLP 1262 2/4/40 INT	EGC141212008	1 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12624

AROCLP 12624		Description - AROCLP 12624 .04/.08/.8
Standard: 26427	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212043	**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
23771	Hexanes	Hexanes DJ160	DJ160	49 mL	06/10/2024
26375	AROCLP 1262	AROCLP 1262 2/4/40 INT	EGC141212008	1 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12625

AROCLP 12625		Description - AROCLP 12625 .08/.16/1.6
Standard: 26428	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212044	**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
23771	Hexanes	Hexanes DJ160	DJ160	48 mL	06/10/2024
26375	AROCLP 1262	AROCLP 1262 2/4/40 INT	EGC141212008	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12681

AROCLP 12681		Description - AROCLP 12681 .005/.01/.1
Standard: 26429	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212045	**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
23771	Hexanes	Hexanes DJ160	DJ160	49.875 mL	06/10/2024
26376	AROCLP 1268	AROCLP 1268 2/4/40 INT	EGC141212009	0.125 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12682

AROCLP 12682		Description - AROCLP 12682 .01/.02/.2
Standard: 26430	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212046	**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
23771	Hexanes	Hexanes DJ160	DJ160	49.75 mL	06/10/2024
26376	AROCLP 1268	AROCLP 1268 2/4/40 INT	EGC141212009	0.25 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12683

AROCLP 12683	Description - AROCLP 12683 .02/.04/.4

Standard: 26431	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212047	**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
23771	Hexanes	Hexanes DJ160	DJ160	99 mL	06/10/2024
26376	AROCLP 1268	AROCLP 1268 2/4/40 INT	EGC141212009	1 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12684

AROCLP 12684		Description - AROCLP 12684 .04/.08/.8
Standard: 26432	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212048	**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
23771	Hexanes	Hexanes DJ160	DJ160	49 mL	06/10/2024
26376	AROCLP 1268	AROCLP 1268 2/4/40 INT	EGC141212009	1 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12685

AROCLP 12685		Description - AROCLP 12685 .08/.16/1.6
Standard: 26433	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212049	**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
23771	Hexanes	Hexanes DJ160	DJ160	48 mL	06/10/2024
26376	AROCLP 1268	AROCLP 1268 2/4/40 INT	EGC141212009	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP LCS

AROCLP LCS		Description - AROCLP LCS SPIKE 1 ug/mL
Standard: 26434	**Created By:** S. Sagers	**Amount:** 200 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: SPIKE	**Lab Lot:** EGC141212050	**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
19305	Acetone	Acetone K41E22	K41E22	199.8 mL	06/09/2023
21543	AR1660	AR1660 1000 PPM	CJ-3291	0.2 mL	09/30/2016

STANDARD REPORT

Working Standard - AROCLP MS

AROCLP MS	Description - AROCLP MS SPIKE 4 ug/mL

Standard: 26435	**Created By:** S. Sagers	**Amount:** 200 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 09/30/2016
MFG Lot: SPIKE	**Lab Lot:** EGC141212051	**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
19305	Acetone	Acetone K41E22	K41E22	199.2 mL	06/09/2023
21543	AR1660	AR1660 1000 PPM	CJ-3291	0.8 mL	09/30/2016

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS 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.

Recd 12/13/13

Catalog No. : 32453 **Lot No.:** A093842

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 : June 2019 **Storage:** 0°C or colder

Handling: Contains PCBs - sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Gravimetric Conc. (weight/volume)		Expanded Uncertainty (95% CL; K=2)		
	2,4,5,6-Tetrachloro-m-xylene	100.0 µg/mL	+/-	0.7088	µg/mL	Gravimetric
	CAS # 877-09-8		+/-	2.1243	µg/mL	Unstressed
	Purity 98%		+/-	3.4583	µg/mL	Stressed
2	Decachlorobiphenyl	200.0 µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 2051-24-3		+/-	4.2504	µg/mL	Unstressed
	Purity 99%		+/-	6.9193	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Tech Tips:

Decachlorobiphenyl has poor solubility in most organic solvents. The maximum concentration that can be prepared in acetone, hexane, or isooctane is 200µg/mL. Temperature will affect the solubility as well. Storing solutions at reduced temperatures will cause decachlorobiphenyl to precipitate.

Products containing decachlorobiphenyl must be sonicated for a minimum of 10 minutes prior to opening the ampul. Because each ultrasonic bath operates at a different energy level, 10 minutes is a guideline only. Longer sonication time will not affect product quality.

These precautions apply to working solutions prepared in your laboratory as well. The amount of compound that precipitates depends on concentration AND temperature. If you store your your standards at a temperature lower than 4°C (even dilute solutions), allow extra sonication time.

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.

A2LA ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01

ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
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William J. Leary
Quality Assurance Manager

:01369

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AccuStandard, Inc.

CERTIFICATE OF ANALYSIS

ISO 9001:2000
Certificate Number C1005-01060

CATALOG NO. C-221S-H-10X

DESCRIPTION: Aroclor 1221

LOT: B6010245

SOLVENT: Hexane

S 3518

EXPIRATION: Jan 23, 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/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Aroclor 1221	11104-28-2	Tech Mix 1001	±40.04	1001

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.

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.

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. 6/05

:01370

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CERTIFICATE OF ANALYSIS

ISO 9001:2000
Certificate Number: C2045-01060

CATALOG NO. C-232S-H-10X

DESCRIPTION: Aroclor 1232

LOT: B6010264

SOLVENT: hexane

S 3519

EXPIRATION: Jan 24, 2016

Recd 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. 6/05

:01371

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21723

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CERTIFICATE OF ANALYSIS

Rec'd 12/16/13

21723

Catalog No: C-242S-H-10X
Description: Aroclor 1242

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 No822-275872-11
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

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AccuStandard, Inc. 13484

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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

13485 Rec'd Dec 2010

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Website AccuStandard.com

CERTIFICATE OF ANALYSIS

13485

CATALOG NO: C-254S-H-10X
DESCRIPTION: Aroclor 1254 S
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

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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:

mma (,) is used to separate units of one-thousand or greater.
eriod (.) 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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AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

: 01374

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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 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

Recd 021413

15386

Catalog No: C-268S-H-10X_S
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 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

AccuStandard

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515542	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	06/02/2015 08:15	F9M21	1515542001		Soil/Solid/Sediment	E,F,G	3	E	5.020g	5.874g	6.366g
2	06/02/2015 08:20	F9M22	1515542002		Soil/Solid/Sediment	E,F,G	3	E	5.287g	5.731g	6.276g
3	06/02/2015 08:25	F9M23	1515542003		Soil/Solid/Sediment	E,F,G	3	E	4.180g	6.070g	5.820g
4	06/02/2015 08:30	F9M24	1515542004		Soil/Solid/Sediment	E,F,G	3	E	5.615g	5.899g	4.180g
5	06/02/2015 08:55	F9M25	1515542005		Soil/Solid/Sediment	E,F,G	3	E	6.190g	6.570g	5.915g
6	06/02/2015 09:00	F9M26	1515542006		Soil/Solid/Sediment	E,F,G	3	E	5.520g	5.766g	6.080g
7	06/02/2015 09:05	F9M27	1515542007		Soil/Solid/Sediment	E,F,G	3	E	6.531g	5.935g	5.608g
8	06/02/2015 09:10	F9M28	1515542010		Soil/Solid/Sediment	E,F,G	3	E	6.222g	6.047g	5.935g
9	06/02/2015 09:15	F9M29	1515542011		Soil/Solid/Sediment	E,F,G	3	E	6.229g	5.660g	6.695g
10	06/02/2015 09:20	F9M30	1515542012 F		Soil/Solid/Sediment	E,F,G	3	E	5.647	6.133g	5.739g

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	06/03/2015 10:07	ALS Sample Receiving	Sample Login
Meredith Edwards	6/3/2015 1403	Storage 3	Storage
Jordan Baum	06-04-15		

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: 1515542	Level: EPACLP_PDF	Requested Analysis
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	SOM01.2 VOA, Soil			
11	06/02/2015 09:50	F9M31	1515542013		Soil/Solid/Sediment	E,F,G	3	E	5.240g	4.774g	4.924g
12	06/02/2015 09:55	F9M32	1515542014		Soil/Solid/Sediment	E,F,G	3	E	5.960g	5.354g	6.866g
13	06/02/2015 10:00	F9M33	1515542015		Soil/Solid/Sediment	E,F,G	3	E	5.517g	5.720g	5.396g
14	06/02/2015 11:20	F9M34	1515542016	F	Soil/Solid/Sediment	E,F,G	3	E	5.254g	5.304g	5.549g
15	06/02/2015 11:25	F9M35	1515542017		Soil/Solid/Sediment	E,F,G	3	E	4.828g	4.926g	4.721g
16	06/02/2015 13:30	F9M37	1515542018		Soil/Solid/Sediment	E,F,G	3	E	4.671g	4.845g	4.258g
17	06/02/2015 13:05	F9M38	1515542019		Soil/Solid/Sediment	E,F,G	3	E	4.712g	4.364g	4.698g
18	06/02/2015 13:10	F9M39	1515542020	F	Soil/Solid/Sediment	E,F,G	3	E	4.178g	4.736g	4.550g
19	06/02/2015 13:40	F9M40	1515542021		Soil/Solid/Sediment	E,F,G	3	E	5.403g	4.270g	5.373g
20	06/02/2015 13:45	F9M41	1515542022		Soil/Solid/Sediment	E,F,G	3	E	5.636g	5.334g	4.651g

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	06/03/2015 10:07	ALS Sample Receiving	Sample Login
Meredith Edwards	06/3/2015/1410	Storage3	Storage
Jordan Baum	06-04-15		

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: 1515542	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
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	06/02/2015 08:15	F9M21	1515542001		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
2	06/02/2015 08:20	F9M22	1515542002		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
3	06/02/2015 08:25	F9M23	1515542003		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
4	06/02/2015 08:30	F9M24	1515542004		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
5	06/02/2015 08:55	F9M25	1515542005		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
6	06/02/2015 09:00	F9M26	1515542006		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
7	06/02/2015 09:05	F9M27	1515542007		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
8	06/02/2015 09:05	F9M27MS	1515542008	MS	Soil/Solid/Sediment	A	1			A	A
9	06/02/2015 09:05	F9M27MSD	1515542009	MSD	Soil/Solid/Sediment	A	1			A	A
10	06/02/2015 09:10	F9M28	1515542010		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	06/03/2015 10:07	ALS Sample Receiving	Sample Login
Meredith Edwards	6/3/2015 1410	R33-1 Cert	Storage
~~Jordan Bam~~	~~6/5/15 06/04/15~~		
R-33-1	6/5/15 0800	[signature]	EXT
[signature]	6/5/15 1000	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]	6/8/15 1400	Emilie Pratt	Pre GPC
Emilie Pratt	6/8/15 1600	[signature]	GPC
[signature]	6/9/15 9:00	[signature]	post-GPC cont
[signature]	6/9/15 12:00	R-60-6	Stor
R-60-6 SY	6/12/15 1230	[signature]	GC-MS

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515542	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
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
11	06/02/2015 09:15	F9M29	1515542011		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
12	06/02/2015 09:20	F9M30	1515542012		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
13	06/02/2015 09:50	F9M31	1515542013		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
14	06/02/2015 09:55	F9M32	1515542014		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
15	06/02/2015 10:00	F9M33	1515542015		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
16	06/02/2015 11:20	F9M34	1515542016		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
17	06/02/2015 11:25	F9M35	1515542017		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
18	06/02/2015 13:30	F9M37	1515542018		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
19	06/02/2015 13:05	F9M38	1515542019		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
20	06/02/2015 13:10	F9M39	1515542020		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	06/03/2015 10:07	ALS Sample Receiving	Sample Login
Meredith Edwards	6/3/2015 1410	RM-1 Cart	Storage
Jordan Daum CE	6/5/15 ~~06/04/15~~		
R-33-1	6/5/15 0800	[signature]	EXT
[signature]	6/5/15 1000	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]	6/8/15 14:00	Emilie Pratt	prep GPC Lab
Emilie Pratt	6/8/15 1600	[signature]	GPC
[signature]	6/9/15 9:00	[signature]	post-GPC Lab
[signature]	6/9/15 12:00	R-60-6	STOR
R-60-6 SY	6/12/15 1230	[signature]	GC-MS

Wed, 06/03/15 4:00 PM

ALSCOCV2.6

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515542	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM	
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	06/02/2015 13:40	F9M40	1515542021		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
22	06/02/2015 13:45	F9M41	1515542022		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
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
Edwards, Meredith D.	06/03/2015 10:07	ALS Sample Receiving	Sample Login
Meredith Edwards	6/3/2015 1410	R-33-1 out	Storage
Jordan Baum	6/5/15 0810		
R-33-1	6/5/15 0800		EXT
	6/5/15 1000	R-31G-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
	6/8/15 1400	Emilie Pratt	Rm GRC
Emilie Pratt	6/8/15 1600		GRC
	6/9/15 9:00		Prep — GRC cone
	6/9/15 12:00	R-60-6	STOR
R-60-6 SV	6/12/15 1200	Ron Hutton	GC-MS

EDD: SAS2014

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515542	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
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	06/02/2015 08:15	F9M21	1515542001		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
2	06/02/2015 08:20	F9M22	1515542002		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
3	06/02/2015 08:25	F9M23	1515542003		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
4	06/02/2015 08:30	F9M24	1515542004		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
5	06/02/2015 08:55	F9M25	1515542005		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
6	06/02/2015 09:00	F9M26	1515542006		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
7	06/02/2015 09:05	F9M27	1515542007		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
8	06/02/2015 09:05	F9M27MS	1515542008	MS	Soil/Solid/Sediment	A	1			A	A
9	06/02/2015 09:05	F9M27MSD	1515542009	MSD	Soil/Solid/Sediment	A	1			A	A
10	06/02/2015 09:10	F9M28	1515542010		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	06/03/2015 10:07	ALS Sample Receiving	Sample Login
Meredith Edwards	6/3/2015 1410	R33-1 Cart	Storage
~~Jordan Bam~~	~~06/04/15~~ 6/5/15		
R-33-1	6/5/15 0800	[signature]	EXT
[signature]	6/5/15 1000	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]	6/8/15 1400	Emilie Pratt	Pre GPC
Emilie Pratt	6/8/15 1600	[signature]	GPC
[signature]	6/9/15 9:00	[signature]	post-GPC cons
[signature]	6/9/15 12:00	K-60-6	Stor
R-60-6 SY	6/12/15 1230	[signature]	GC-MS

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515542	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
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
11	06/02/2015 09:15	F9M29	1515542011		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
12	06/02/2015 09:20	F9M30	1515542012		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
13	06/02/2015 09:50	F9M31	1515542013		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
14	06/02/2015 09:55	F9M32	1515542014		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
15	06/02/2015 10:00	F9M33	1515542015		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
16	06/02/2015 11:20	F9M34	1515542016		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
17	06/02/2015 11:25	F9M35	1515542017		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
18	06/02/2015 13:30	F9M37	1515542018		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
19	06/02/2015 13:05	F9M38	1515542019		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
20	06/02/2015 13:10	F9M39	1515542020		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	06/03/2015 10:07	ALS Sample Receiving	Sample Login
Meredith Edwards	6/3/2015 1410	R33-1 Cart	Storage
Jordan Daum	6/5/15 ~~06/04/15~~		
R-33-1	6/5/15 0800	[signature]	EXT
[signature]	6/5/15 1000	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]	6/8/15 14:00	Emilie Pratt	[illegible] GPC Loop
Emilie Pratt	6/8/15 1600	[signature]	GPC
[signature]	6/9/15 9:00	[signature]	[illegible] GPC Loop
[signature]	6/9/15 12:00	R-60-6	STOR
R-60-6 SY	6/11/15 1230	[signature]	GC-MS

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515542	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
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	06/02/2015 13:40	F9M40	1515542021		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
22	06/02/2015 13:45	F9M41	1515542022		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
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
Edwards, Meredith D.	06/03/2015 10:07	ALS Sample Receiving	Sample Login
Meredith Edwards	6/3/2015 1410	R33-1 Cut	Storage
Jorden Baum CDE	6/5/15 06/04/15		
R-33-1	6/5/15 0800	[signature]	EXT
[signature]	6/5/15 1000	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]	6/8/15 1400	Emilie Pratt	Pro GPC
Emilie Pratt	6/8/15 1600	[signature]	GPC
[signature]	6/9/15 9:00	[signature]	pract — GPC cone
[signature]	6/9/15 12:00	R-60-6	Stor
R-60-6 SY	6/12/15 1230	[signature]	GC-MS

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515542	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
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
1	06/02/2015 08:15	F9M21	1515542001		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
2	06/02/2015 08:20	F9M22	1515542002		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
3	06/02/2015 08:25	F9M23	1515542003		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
4	06/02/2015 08:30	F9M24	1515542004		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
5	06/02/2015 08:55	F9M25	1515542005		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
6	06/02/2015 09:00	F9M26	1515542006		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
7	06/02/2015 09:05	F9M27	1515542007		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
8	06/02/2015 09:05	F9M27MS	1515542008	MS	Soil/Solid/Sediment	A	1			A	A
9	06/02/2015 09:05	F9M27MSD	1515542009	MSD	Soil/Solid/Sediment	A	1			A	A
10	06/02/2015 09:10	F9M28	1515542010		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	06/03/2015 10:07	ALS Sample Receiving	Sample Login
Meredith Edwards	6/3/2015 1440	R33-1 Cert	Storage
~~Jordan Bam~~	~~06/04/15~~ 6/5/15		
R-33-1	6/5/15 0800	[signature]	EXT
[signature]	6/5/15 1000	R-319-1	STORAGE

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: PGSY Lab Notebook No.:

Prepared / Analyzed by: Date / Time:

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[signature]	6/5/15 1430	[signature]	PRE GPC
[signature]	6/5/15 1700	R-63-1	STORAGE
R-63-1	6/6/15 1800	[signature]	GPC
[signature]	6/8/15 13:00	[signature]	post-GPC conc
[signature]	6/8/15 17:00	[signature]	Florid
[signature]	6/9/15 9:00	R-72-1 [signature]	STOR
R-72-1 SS	06/19/15 1200	[signature]	Analysis

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515542	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
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
11	06/02/2015 09:15	F9M29	1515542011		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
12	06/02/2015 09:20	F9M30	1515542012		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
13	06/02/2015 09:50	F9M31	1515542013		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
14	06/02/2015 09:55	F9M32	1515542014		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
15	06/02/2015 10:00	F9M33	1515542015		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
16	06/02/2015 11:20	F9M34	1515542016		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
17	06/02/2015 11:25	F9M35	1515542017		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
18	06/02/2015 13:30	F9M37	1515542018		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
19	06/02/2015 13:05	F9M38	1515542019		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
20	06/02/2015 13:10	F9M39	1515542020		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	06/03/2015 10:07	ALS Sample Receiving	Sample Login
Meredith Edwards	6/3/2015 1410	RM-1 Cart	Storage
Jordan Daum CE	6/5/15 ~~06/04/15~~		
R-33-1	6/5/15 0800	[signature]	EXT
[signature]	6/5/15 1000	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
[signature]	6/5/15 1430	[signature]	PRE GPC
[signature]	6/5/15 1700	R-63-1	STORAGE
R-63-1	6/6/15 1800	[signature]	GPC
[signature]	6/8/15 13:00	[signature]	post GPC cone
[signature]	6/8/15 17:00	[signature]	Florisil
[signature]	6/9/15 9:00	R-721 [signature]	STOR
R-72-1	06/14/15 1200	[signature]	Analysis

ALS Environmental
CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515542	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
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	06/02/2015 13:40	F9M40	1515542021		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
22	06/02/2015 13:45	F9M41	1515542022		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
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
Edwards, Meredith D.	06/03/2015 10:07	ALS Sample Receiving	Sample Login
Meredith Edwards	6/3/2015 1410	R33.1 Cust	Storage
Jorden Baum	6/5/15 06/04/15		
R-33-1	6/5/15 0800	[signature]	EXT
[signature]	6/5/15 2000	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
[signature]	6/5/15 1430	[signature]	PRE-GPC
[signature]	6/5/15 1700	R-63-1	STORAGE
R-63-1	6/6/15 1800	[signature]	GPC
[signature]	6/8/15 13:00	[signature]	post GPC [illegible]
[signature]	6/8/15 17:00	[signature]	[illegible]
[signature]	6/9/15 9:00	R-72-1	Storage
R-72-1	06/19/15 1200	[signature]	Analysis

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515542	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
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	06/02/2015 08:15	F9M21	1515542001		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
2	06/02/2015 08:20	F9M22	1515542002		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
3	06/02/2015 08:25	F9M23	1515542003		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
4	06/02/2015 08:30	F9M24	1515542004		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
5	06/02/2015 08:55	F9M25	1515542005		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
6	06/02/2015 09:00	F9M26	1515542006		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
7	06/02/2015 09:05	F9M27	1515542007		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
8	06/02/2015 09:05	F9M27MS	1515542008	MS	Soil/Solid/Sediment	A	1			A	A
9	06/02/2015 09:05	F9M27MSD	1515542009	MSD	Soil/Solid/Sediment	A	1			A	A
10	06/02/2015 09:10	F9M28	1515542010		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	06/03/2015 10:07	ALS Sample Receiving	Sample Login
Meredith Edwards	6/3/2015 1440	R-33-1 Cust	Storage
~~Jon Bern~~ 06/04/15			
R-33-1	6/5/15 0800		EXT
	6/5/151000	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
	6/5/15 1430		PREP
	6/5/15 1700	R-63-1	STORAGE
R-63-1	6/5/15 1800		GPC
R-72-1 NB	06/10/15 16:30		analysis

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515542	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM	
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
11	06/02/2015 09:15	F9M29	1515542011		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
12	06/02/2015 09:20	F9M30	1515542012		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
13	06/02/2015 09:50	F9M31	1515542013		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
14	06/02/2015 09:55	F9M32	1515542014		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
15	06/02/2015 10:00	F9M33	1515542015		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
16	06/02/2015 11:20	F9M34	1515542016		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
17	06/02/2015 11:25	F9M35	1515542017		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
18	06/02/2015 13:30	F9M37	1515542018		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
19	06/02/2015 13:05	F9M38	1515542019		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
20	06/02/2015 13:10	F9M39	1515542020		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	06/03/2015 10:07	ALS Sample Receiving	Sample Login
Meredith Edwards	6/3/2015 1410	R-33-1 Cust	Storage
Jordan Davis OR	6/5/15 06/04/15		
R-33-1	6/5/15 0800		EXT
	6/5/15 1000	R-31A-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
	6/5/15 1430		PREP
	6/5/15 1700	R-63-1	STORAGE
R-63-1	6/6/15 1800		PREP
R-72-1 NB	06/12/15 16:00		analysis

ALS Environmental
CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515542	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
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	06/02/2015 13:40	F9M40	1515542021		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
22	06/02/2015 13:45	F9M41	1515542022		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
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
Edwards, Meredith D.	06/03/2015 10:07	ALS Sample Receiving	Sample Login
Meredith Edwards	6/3/2015 1410	R33.1 Out	Storage
Jorden Baum	6/5/15 06/04/15		
R-33-1	6/5/15 0800	[signature]	EXT
[signature]	6/5/15 1000	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
[signature]	6/5/15 1430	[signature]	PRE-GPC
[signature]	6/5/15 1700	R-63-1	STORAGE
R-63-1	6/6/15 1800	[signature]	GPC
[signature]			
R-72-1 NB	06/12/15 16:30	[signature]	analysis

ALS Environmental
CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1515542	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
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
1	06/02/2015 08:15	F9M21	1515542001		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
2	06/02/2015 08:20	F9M22	1515542002		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
3	06/02/2015 08:25	F9M23	1515542003		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
4	06/02/2015 08:30	F9M24	1515542004		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
5	06/02/2015 08:55	F9M25	1515542005		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
6	06/02/2015 09:00	F9M26	1515542006		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
7	06/02/2015 09:05	F9M27	1515542007		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
8	06/02/2015 09:05	F9M27MS	1515542008	MS	Soil/Solid/Sediment	A	1			A	A
9	06/02/2015 09:05	F9M27MSD	1515542009	MSD	Soil/Solid/Sediment	A	1			A	A
10	06/02/2015 09:10	F9M28	1515542010		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	06/03/2015 10:07	ALS Sample Receiving	Sample Login
Meredith Edwards	6/3/2015 1410	R33-1 Cert	Storage
~~Jordan Bam~~	~~06/04/15~~ 6/5/15		
R-33-1	6/5/15 0800	[signature]	EXT
[signature]	6/5/15 1000	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: 1515542	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
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
11	06/02/2015 09:15	F9M29	1515542011		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
12	06/02/2015 09:20	F9M30	1515542012		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
13	06/02/2015 09:50	F9M31	1515542013		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
14	06/02/2015 09:55	F9M32	1515542014		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
15	06/02/2015 10:00	F9M33	1515542015		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
16	06/02/2015 11:20	F9M34	1515542016		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
17	06/02/2015 11:25	F9M35	1515542017		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
18	06/02/2015 13:30	F9M37	1515542018		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
19	06/02/2015 13:05	F9M38	1515542019		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
20	06/02/2015 13:10	F9M39	1515542020		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	06/03/2015 10:07	ALS Sample Receiving	Sample Login
Meredith Salvaj	6/3/2015 1410	R33-1 Cart	Storage
Jordan Daum	6/5/15 ~~06/04/15~~		
R-33-1	6/5/15 0800	[signature]	EXT
[signature]	6/5/15 1000	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: 1515542	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
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	06/02/2015 13:40	F9M40	1515542021		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
22	06/02/2015 13:45	F9M41	1515542022		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
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
Edwards, Meredith D.	06/03/2015 10:07	ALS Sample Receiving	Sample Login
Meredith Edwards	6/3/2015 1410	R33.1 Cust	Storage
Jordan Baum	6/5/15 06/04/15		
R-33-1	6/5/15 0800	[signature]	EXT
[signature]	6/5/15 1000	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

Wed, 06/03/15 4:00 PM

ALSCOCV2.6

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X001.D
Acq Time : 06/04/2015 17:35 Operator: RJH
Sample : F9M21 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 17:58 2015 Quant Results File: PCLPSD.RES

Quant 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
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.85	114	1718732	50.0000 ug/Kg	62.10
30) Chlorobenzene-d5	12.09	117	1623156	50.0000 ug/Kg	74.24
62) 1,4-dichlorobenzene-d4	15.75	152	1100036	50.0000 ug/Kg	83.48
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	0.00	65	0	0.0000 ug/Kg	0.00%#
8) Chloroethane-d5	2.80	69	173	0.0186 ug/Kg	0.04%#
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	16.78	152	1116	0.0570 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	3.88	43	11108	4.0120 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	4.43	84	4225	0.3485 ug/Kg#	59
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	6.22	43	12639	3.2329 ug/Kg#	63
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

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

01394

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X001.D
Acq Time : 06/04/2015 17:35 Operator: RJH
Sample : F9M21 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 17:58 2015 Quant Results File: PCLPSD.RES

Quant 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
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	

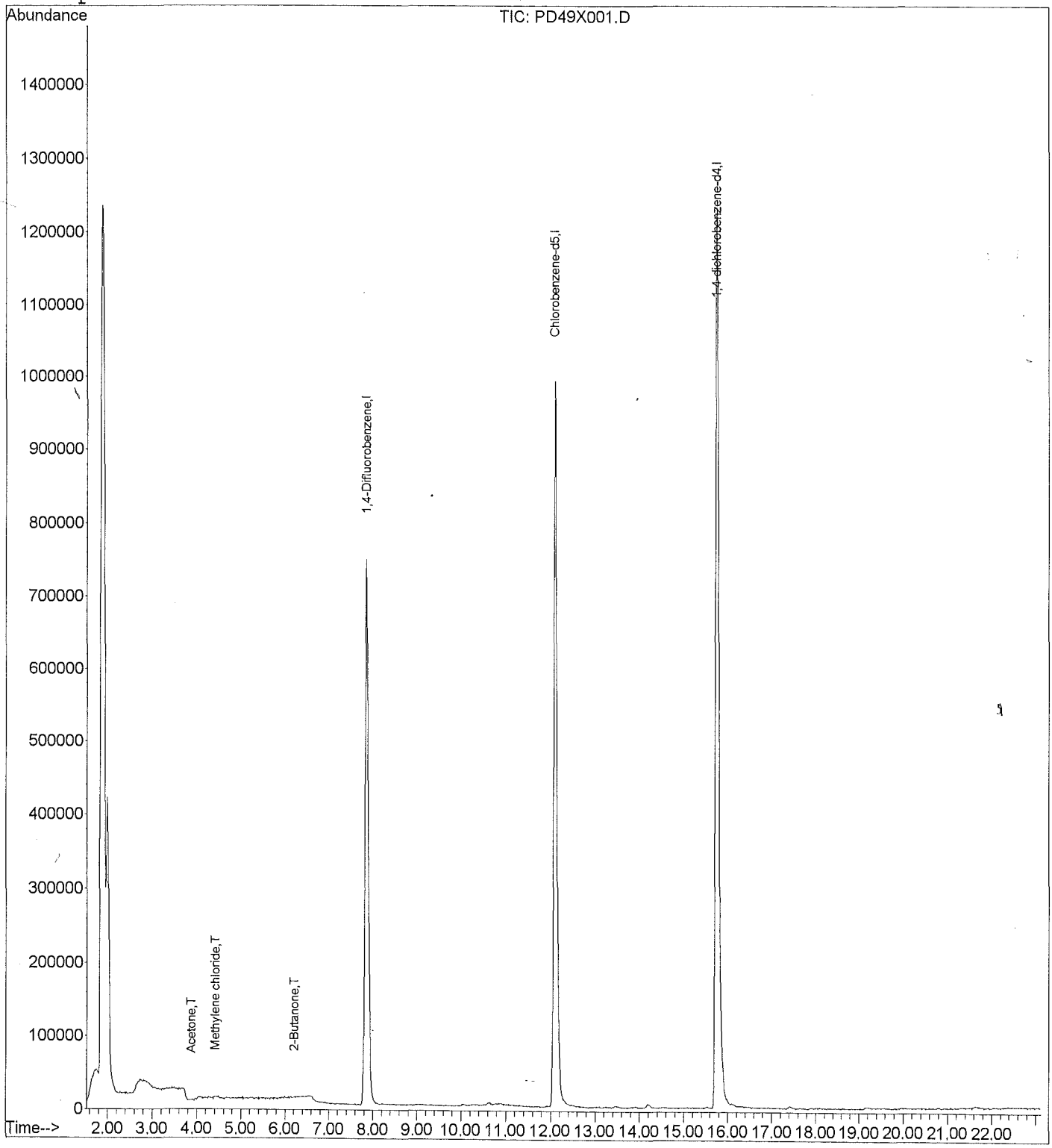
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X001.D
Acq Time : 06/04/2015 17:35 Operator: RJH
Sample : F9M21 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 17:58 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



01398

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X002.D
Acq Time : 06/04/2015 18:04 Operator: RJH
Sample : F9M22 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 18:27 2015 Quant Results File: PCLPSD.RES

Quant 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
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.86	114	1118403	50.0000 ug/Kg	40.41#
30) Chlorobenzene-d5	12.11	117	992884	50.0000 ug/Kg	45.41#
62) 1,4-dichlorobenzene-d4	15.75	152	656909	50.0000 ug/Kg	49.85#
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	3.86	43	7665	4.2545 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	4.23	43	1752	0.4128 ug/Kg#	57
16) Methylene chloride	4.42	84	4595	0.5825 ug/Kg	75
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	6.16	43	8065	3.1703 ug/Kg#	60
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

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

01397

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X002.D
Acq Time : 06/04/2015 18:04 Operator: RJH
Sample : F9M22 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 18:27 2015 Quant Results File: PCLPSD.RES

Quant 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
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

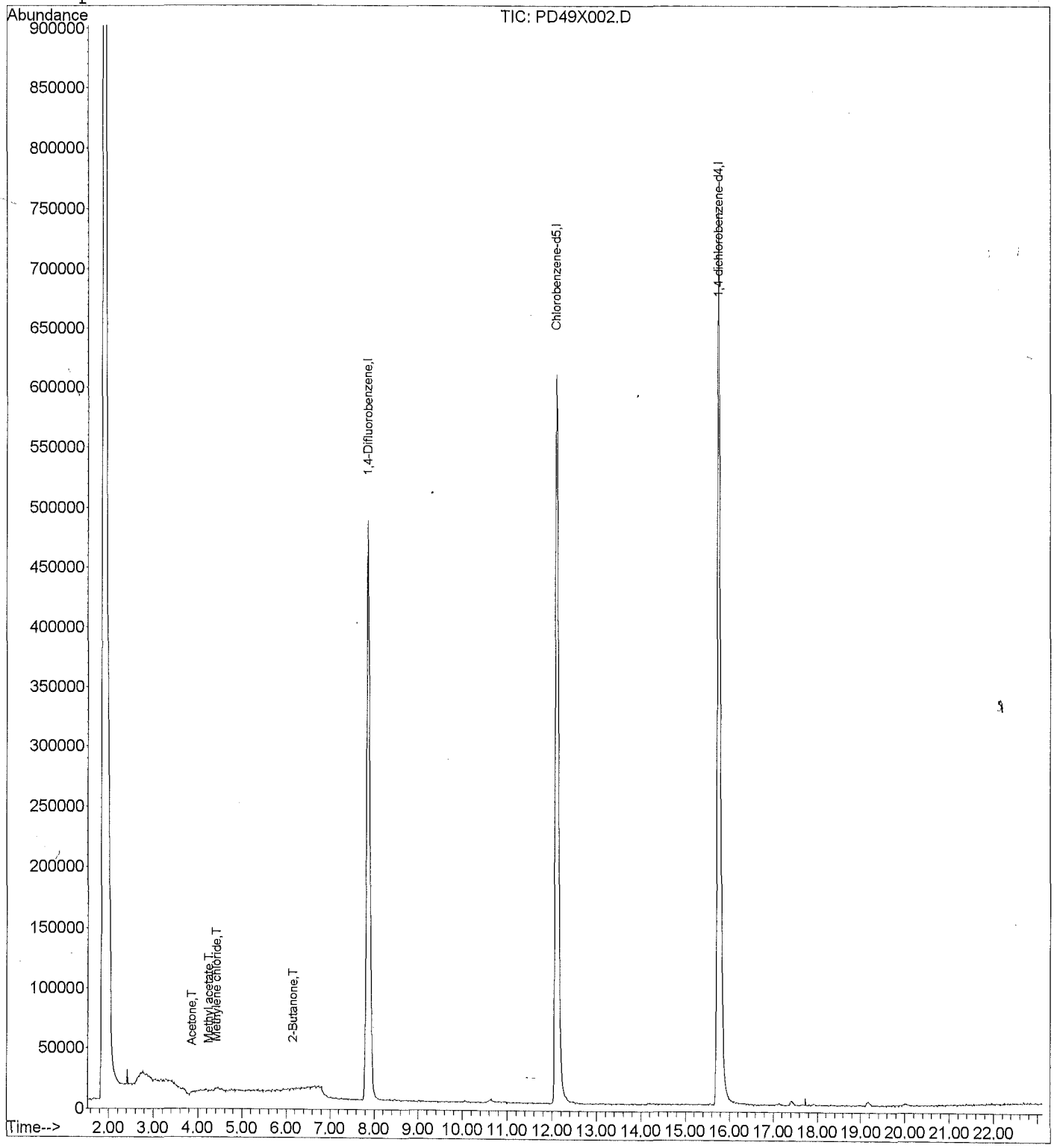
01399

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X002.D
Acq Time : 06/04/2015 18:04 Operator: RJH
Sample : F9M22 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 18:27 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



01399

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X003.D
Acq Time : 06/04/2015 18:33 Operator: RJH
Sample : F9M23 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 18:57 2015 Quant Results File: PCLPSD.RES

Quant 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
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.87	114	1584304	50.0000 ug/Kg	57.24
30) Chlorobenzene-d5	12.10	117	1355852	50.0000 ug/Kg	62.02
62) 1,4-dichlorobenzene-d4	15.76	152	868657	50.0000 ug/Kg	65.92
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	16.50	152	462	0.0299 ug/Kg	0.06%#
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	3.90	43	8325	3.2620 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	4.30	43	5071	0.8434 ug/Kg#	57
16) Methylene chloride	4.47	84	4837	0.4328 ug/Kg	89
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	6.16	43	4901	1.3600 ug/Kg#	60
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

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

01499

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X003.D
Acq Time : 06/04/2015 18:33 Operator: RJH
Sample : F9M23 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 18:57 2015 Quant Results File: PCLPSD.RES

Quant 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
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

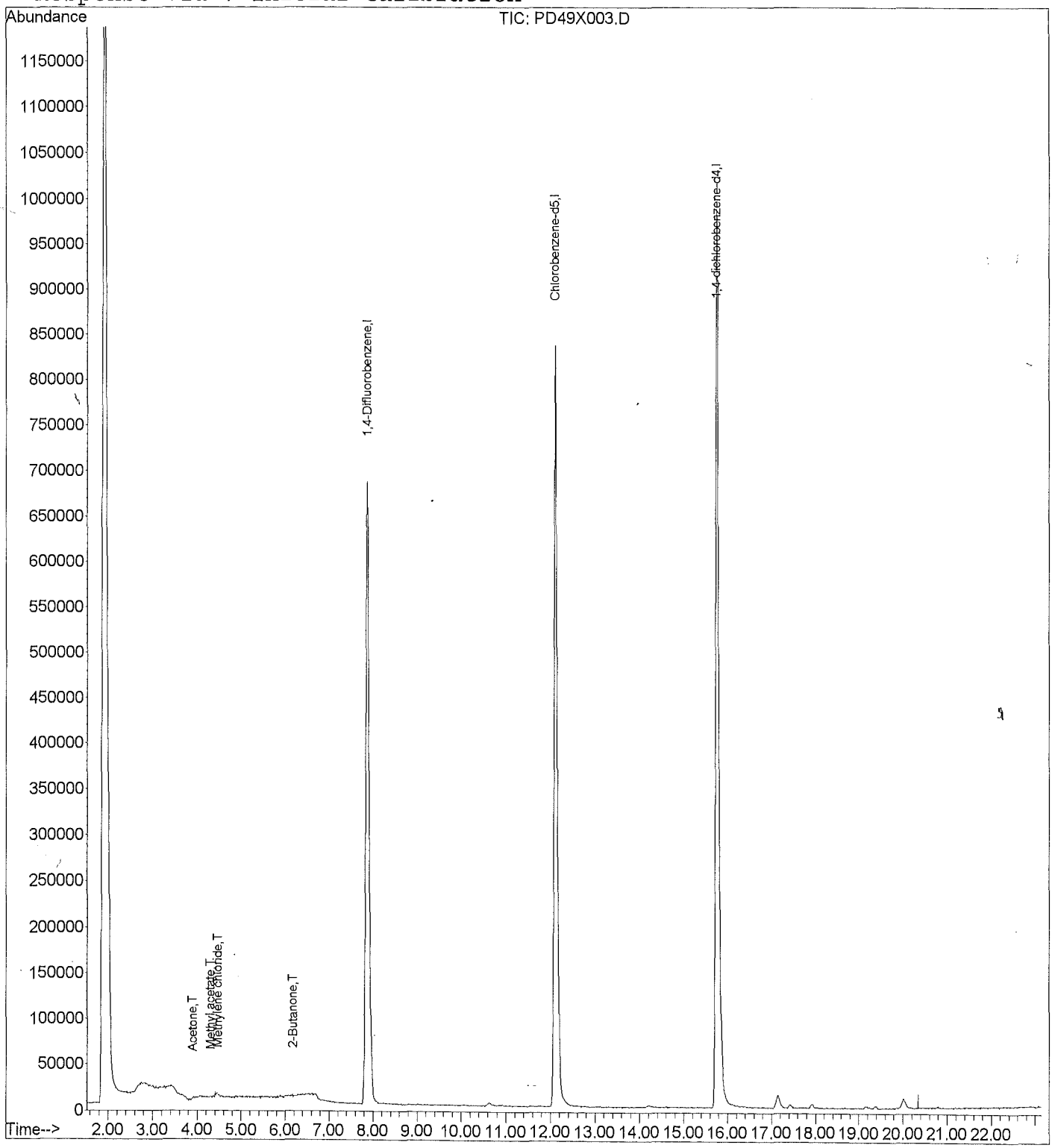
: 91491

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X003.D
Acq Time : 06/04/2015 18:33 Operator: RJH
Sample : F9M23 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 18:57 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\04JUN15P\PD49X004.D
Acq Time : 06/04/2015 19:03 Operator: RJH
Sample : F9M24 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 19:26 2015 Quant Results File: PCLPSD.RES

Quant 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
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.87	114	1516763	50.0000 ug/Kg	54.80
30) Chlorobenzene-d5	12.10	117	1300936	50.0000 ug/Kg	59.50
62) 1,4-dichlorobenzene-d4	15.76	152	828464	50.0000 ug/Kg	62.87
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	16.59	152	268	0.0182 ug/Kg	0.04%#
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	3.90	43	6810	2.7872 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	4.43	84	4736	0.4427 ug/Kg#	78
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	6.16	43	7520	2.1797 ug/Kg#	60
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

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

:01403

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X004.D
Acq Time : 06/04/2015 19:03 Operator: RJH
Sample : F9M24 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 19:26 2015 Quant Results File: PCLPSD.RES

Quant 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
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	

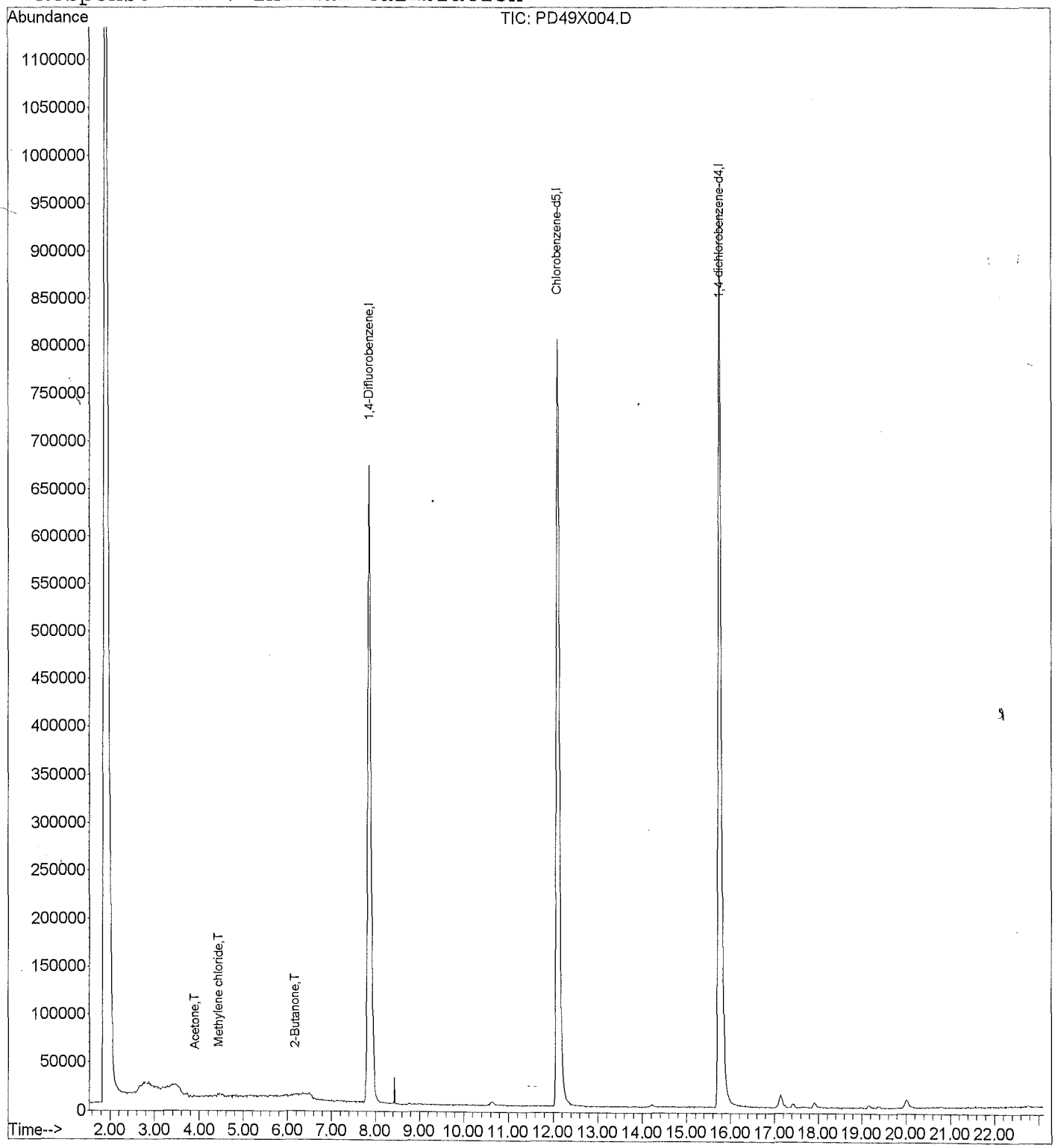
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X004.D
Acq Time : 06/04/2015 19:03 Operator: RJH
Sample : F9M24 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 19:26 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



: 84185

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X005.D
Acq Time : 06/04/2015 19:32 Operator: RJH
Sample : F9M25 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 19:55 2015 Quant Results File: PCLPSD.RES

Quant 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
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.87	114	1107744	50.0000 ug/Kg	40.02#
30) Chlorobenzene-d5	12.11	117	909818	50.0000 ug/Kg	41.61#
62) 1,4-dichlorobenzene-d4	15.76	152	573040	50.0000 ug/Kg	43.49#
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	16.36	152	428	0.0420 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	3.94	43	6732	3.7726 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	4.30	43	5633	1.3399 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	6.16	43	846	0.3358 ug/Kg#	60
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

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

04106

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X005.D
Acq Time : 06/04/2015 19:32 Operator: RJH
Sample : F9M25 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 19:55 2015 Quant Results File: PCLPSD.RES

Quant 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
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

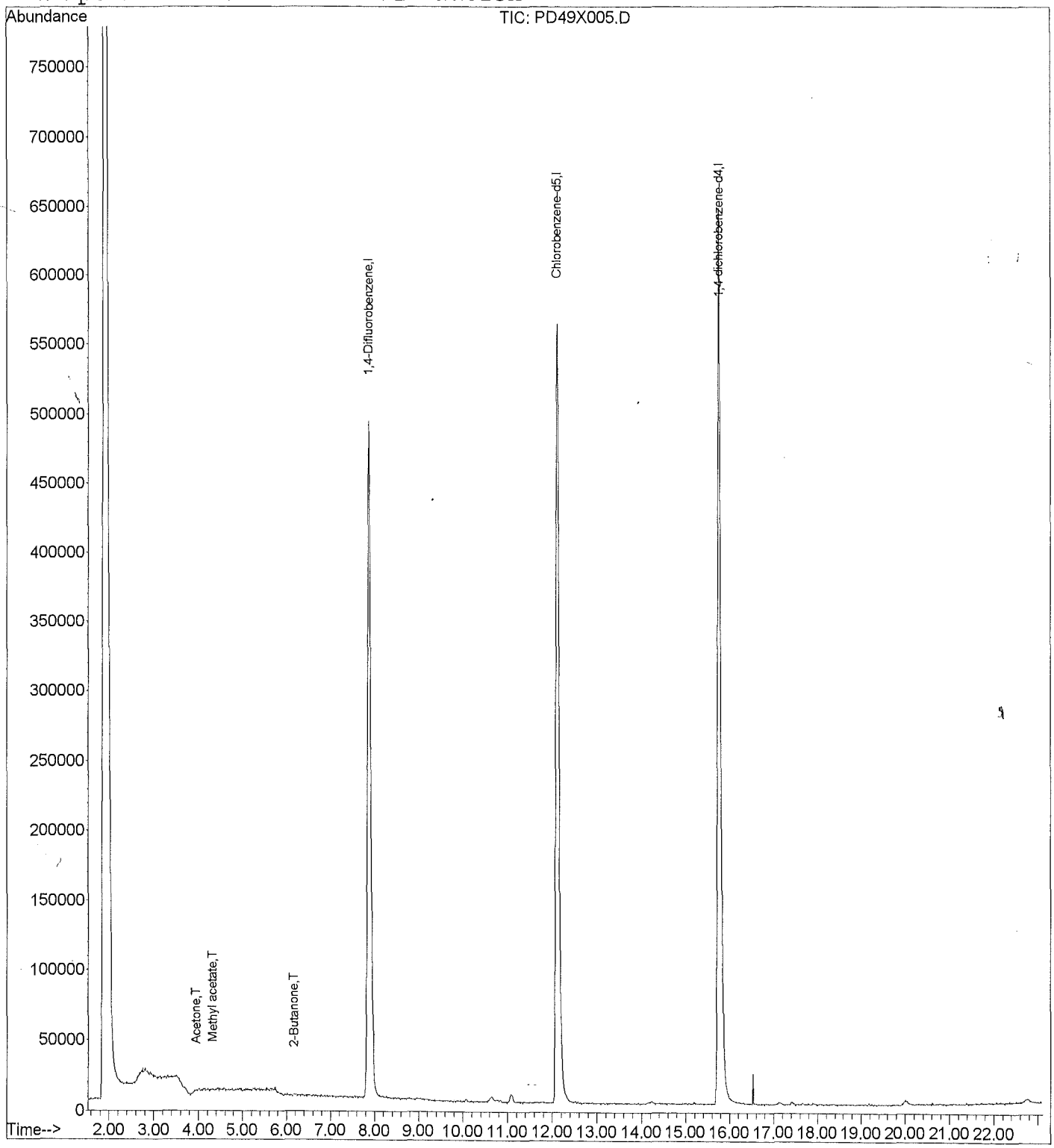
04107

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X005.D
Acq Time : 06/04/2015 19:32 Operator: RJH
Sample : F9M25 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 19:55 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\04JUN15P\PD49X006.D
Acq Time : 06/04/2015 20:01
Sample : F9M26
Misc : 1515542

Operator: RJH
Inst : 5972-P
Multiplr: 1.00

Quant Time: Jun 4 20:24 2015 Quant Results File: PCLPSD.RES

Quant 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
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.87	114	1046248	50.0000 ug/Kg	37.80#
30) Chlorobenzene-d5	12.10	117	865601	50.0000 ug/Kg	39.59#
62) 1,4-dichlorobenzene-d4	15.75	152	539769	50.0000 ug/Kg	40.96#
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	8361	4.9609 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	4.32	43	3745	0.9432 ug/Kg#	57
16) Methylene chloride	4.45	84	4586	0.6214 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

01409

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X006.D
Acq Time : 06/04/2015 20:01 Operator: RJH
Sample : F9M26 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 20:24 2015 Quant Results File: PCLPSD.RES

Quant 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
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

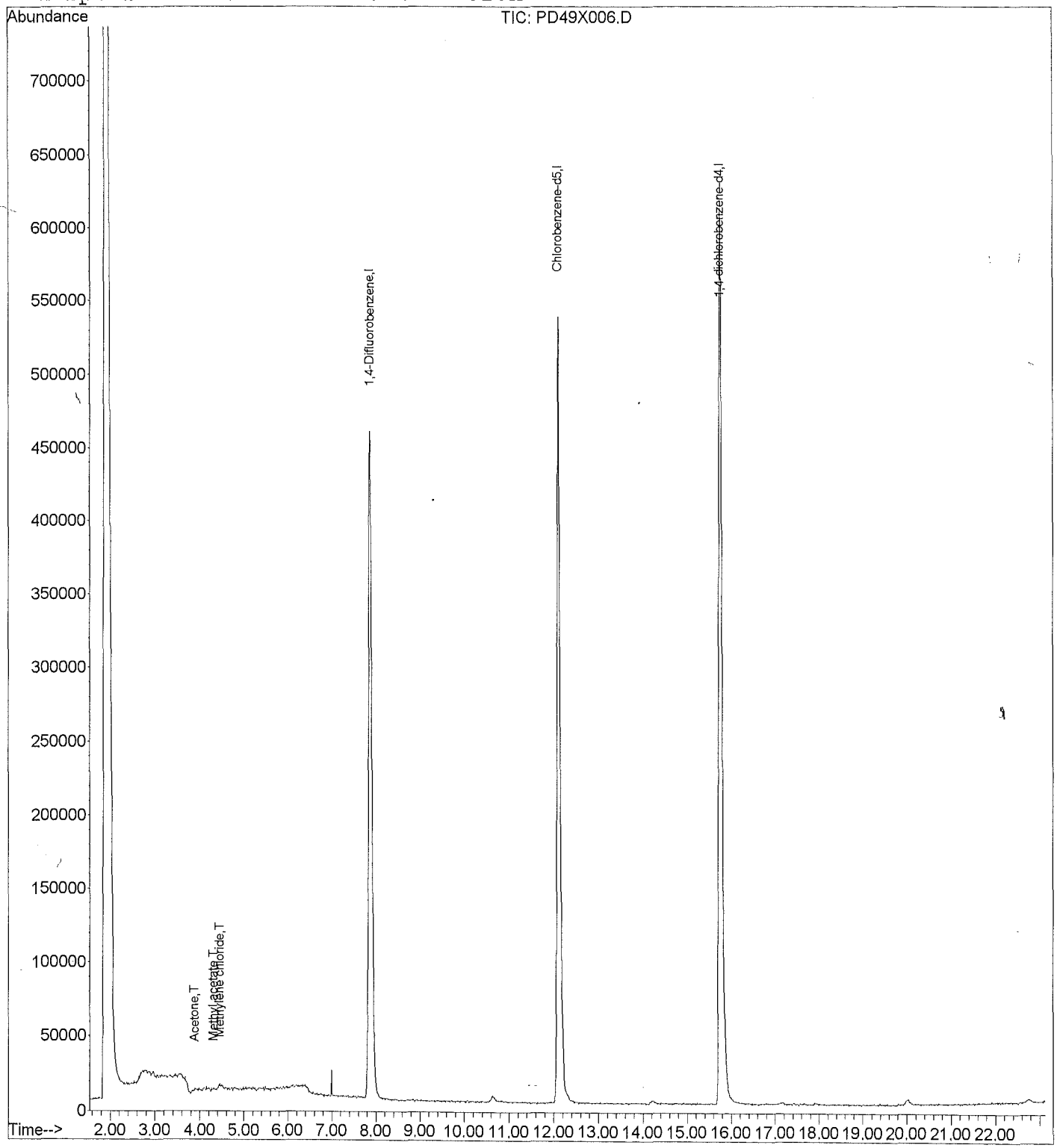
:01419

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X006.D
Acq Time : 06/04/2015 20:01 Operator: RJH
Sample : F9M26 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 20:24 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\04JUN15P\PD49X007.D
Acq Time : 06/04/2015 20:30 Operator: RJH
Sample : F9M27 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 20:53 2015 Quant Results File: PCLPSD.RES

Quant 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
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.87	114	1430877	50.0000 ug/Kg	51.70
30) Chlorobenzene-d5	12.10	117	1177609	50.0000 ug/Kg	53.86
62) 1,4-dichlorobenzene-d4	15.73	152	731969	50.0000 ug/Kg	55.55
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	16.48	152	655	0.0503 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	3.89	43	5776	2.5059 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	4.30	43	5223	0.9618 ug/Kg#	57
16) Methylene chloride	4.44	84	3204	0.3174 ug/Kg#	67
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	5102	1.5676 ug/Kg#	60
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

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

04442

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X007.D
Acq Time : 06/04/2015 20:30 Operator: RJH
Sample : F9M27 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 20:53 2015 Quant Results File: PCLPSD.RES

Quant 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
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

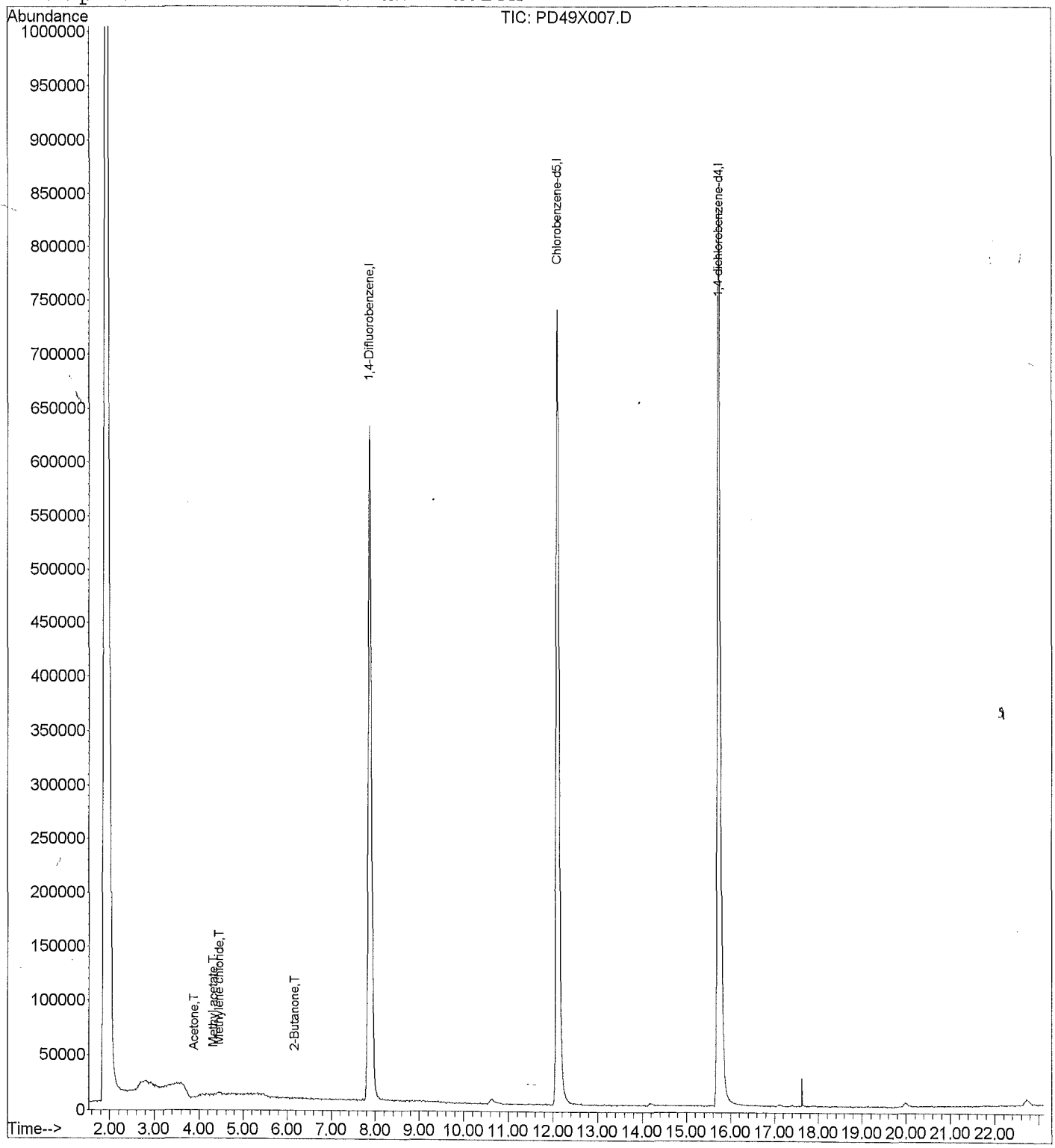
:01413

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X007.D
Acq Time : 06/04/2015 20:30 Operator: RJH
Sample : F9M27 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 20:53 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\04JUN15P\PD49X010.D
Acq Time : 06/04/2015 20:58 Operator: RJH
Sample : F9M28 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 21:22 2015 Quant Results File: PCLPSD.RES

Quant 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
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.87	114	1858641	50.0000 ug/Kg	67.16
30) Chlorobenzene-d5	12.09	117	1529698	50.0000 ug/Kg	69.97
62) 1,4-dichlorobenzene-d4	15.73	152	936699	50.0000 ug/Kg	71.08
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	1104	0.0662 ug/Kg	0.13%#
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	3.91	43	4342	1.4502 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	4.31	43	6980	0.9896 ug/Kg#	57
16) Methylene chloride	4.44	84	5254	0.4008 ug/Kg	77
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	6.15	43	2715	0.6422 ug/Kg#	60
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

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

01415

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X010.D
Acq Time : 06/04/2015 20:58 Operator: RJH
Sample : F9M28 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 21:22 2015 Quant Results File: PCLPSD.RES

Quant 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
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

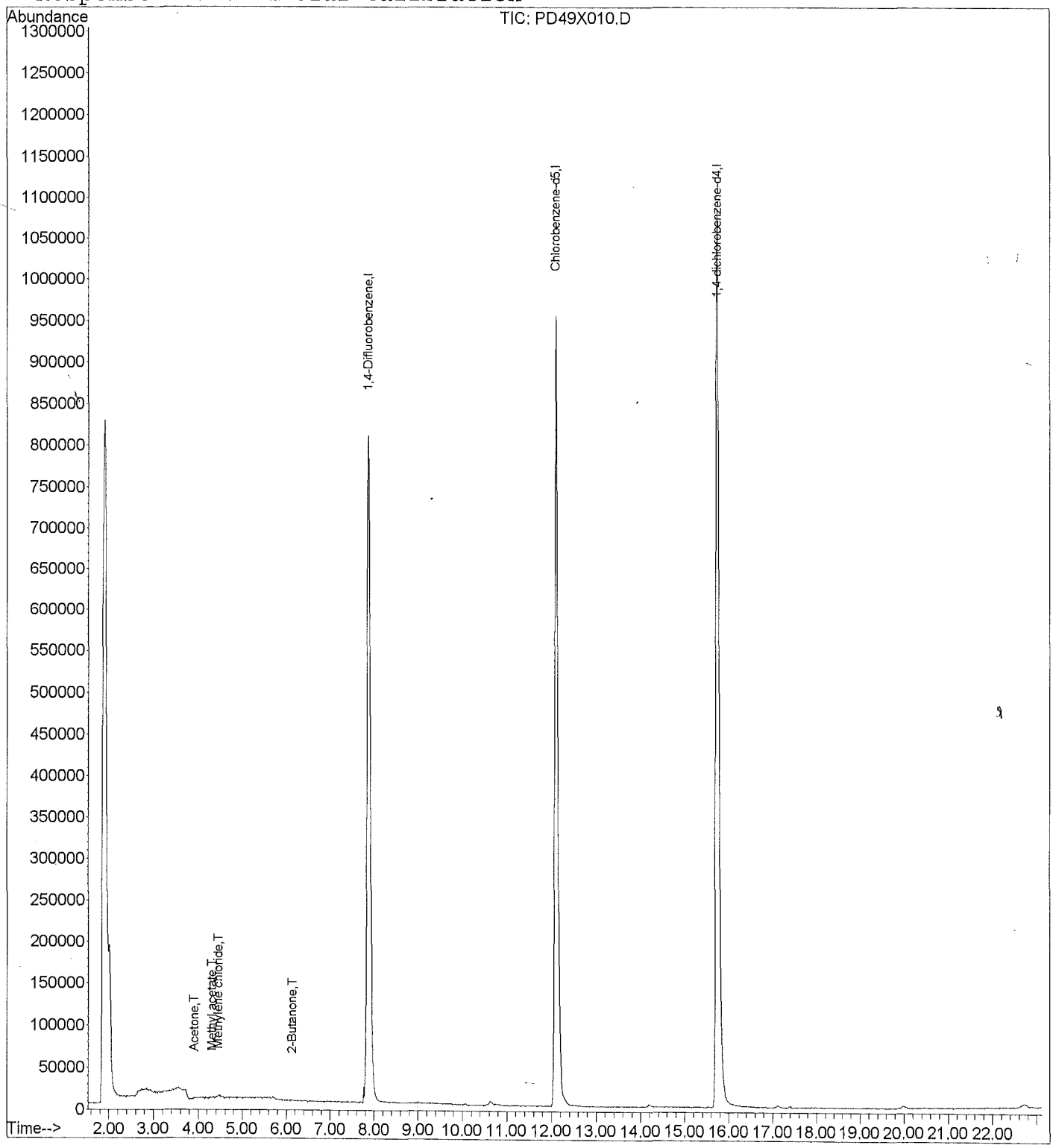
:01416

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X010.D
Acq Time : 06/04/2015 20:58 Operator: RJH
Sample : F9M28 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 21:22 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\04JUN15P\PD49X011.D
Acq Time : 06/04/2015 21:27 Operator: RJH
Sample : F9M29 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 21:51 2015 Quant Results File: PCLPSD.RES

Quant 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
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.86	114	1993852	50.0000 ug/Kg	72.04
30) Chlorobenzene-d5	12.09	117	1593344	50.0000 ug/Kg	72.88
62) 1,4-dichlorobenzene-d4	15.72	152	961635	50.0000 ug/Kg	72.97
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	434	0.0254 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	3.94	43	7773	2.4201 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	4.28	43	2652	0.3505 ug/Kg#	57
16) Methylene chloride	4.45	84	3911	0.2781 ug/Kg#	79
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

01419

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X011.D
Acq Time : 06/04/2015 21:27 Operator: RJH
Sample : F9M29 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 21:51 2015 Quant Results File: PCLPSD.RES

Quant 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
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

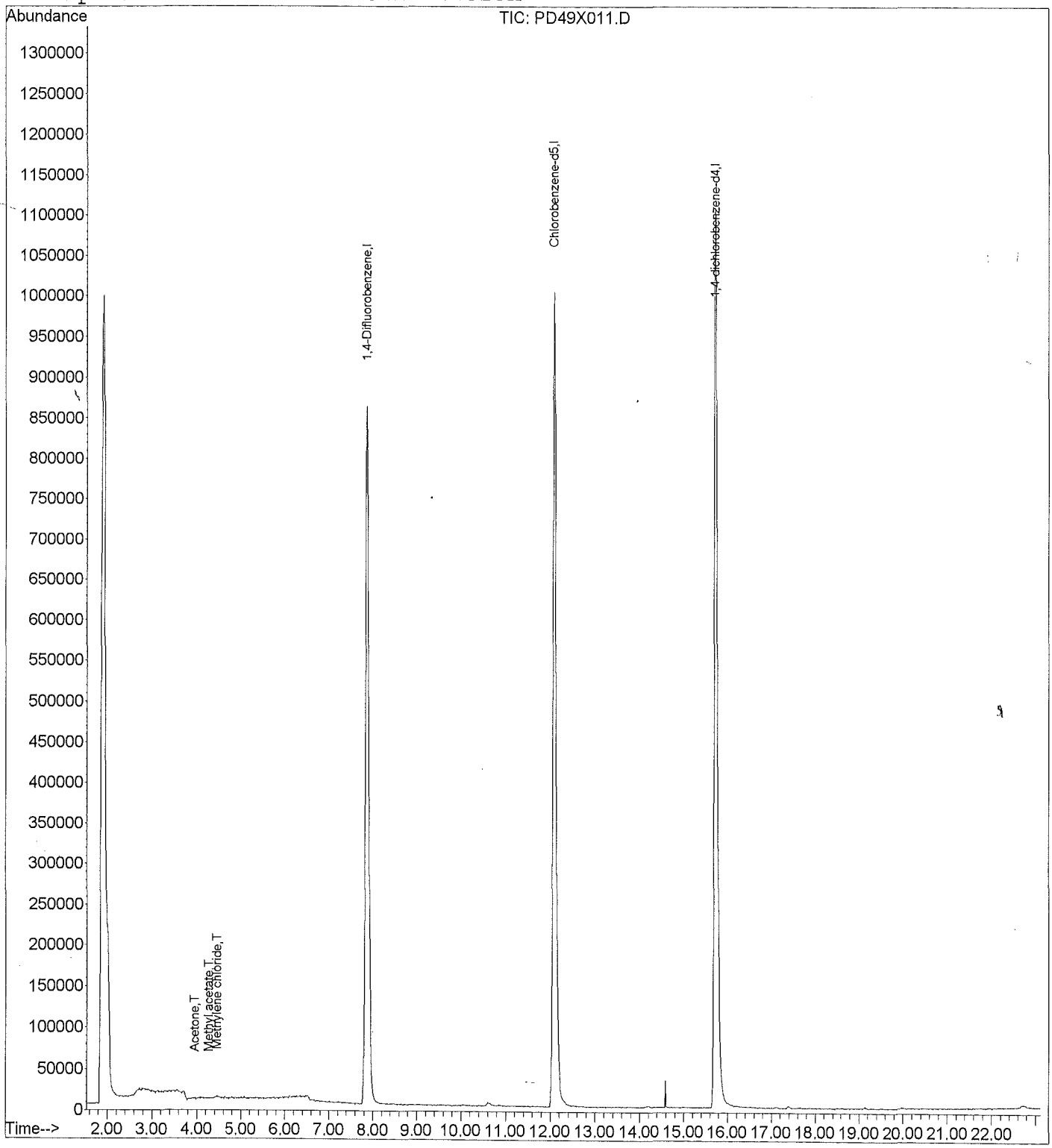
:01419

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X011.D
Acq Time : 06/04/2015 21:27 Operator: RJH
Sample : F9M29 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 21:51 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\04JUN15P\PD49X012.D
Acq Time : 06/04/2015 21:57
Sample : F9M30
Misc : 1515542

Operator: RJH
Inst : 5972-P
Multiplr: 1.00

Quant Time: Jun 4 22:20 2015

Quant Results File: PCLPSD.RES

Quant 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
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.86	114	1545222	50.0000 ug/Kg	55.83
30) Chlorobenzene-d5	12.10	117	1259079	50.0000 ug/Kg	57.59
62) 1,4-dichlorobenzene-d4	15.74	152	777510	50.0000 ug/Kg	59.00

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	5647	2.2686 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	4.28	43	1502	0.2561 ug/Kg#	57
16) Methylene chloride	4.42	84	4575	0.4197 ug/Kg#	78
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\04JUN15P\PD49X012.D
Acq Time : 06/04/2015 21:57 Operator: RJH
Sample : F9M30 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 22:20 2015 Quant Results File: PCLPSD.RES

Quant 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
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

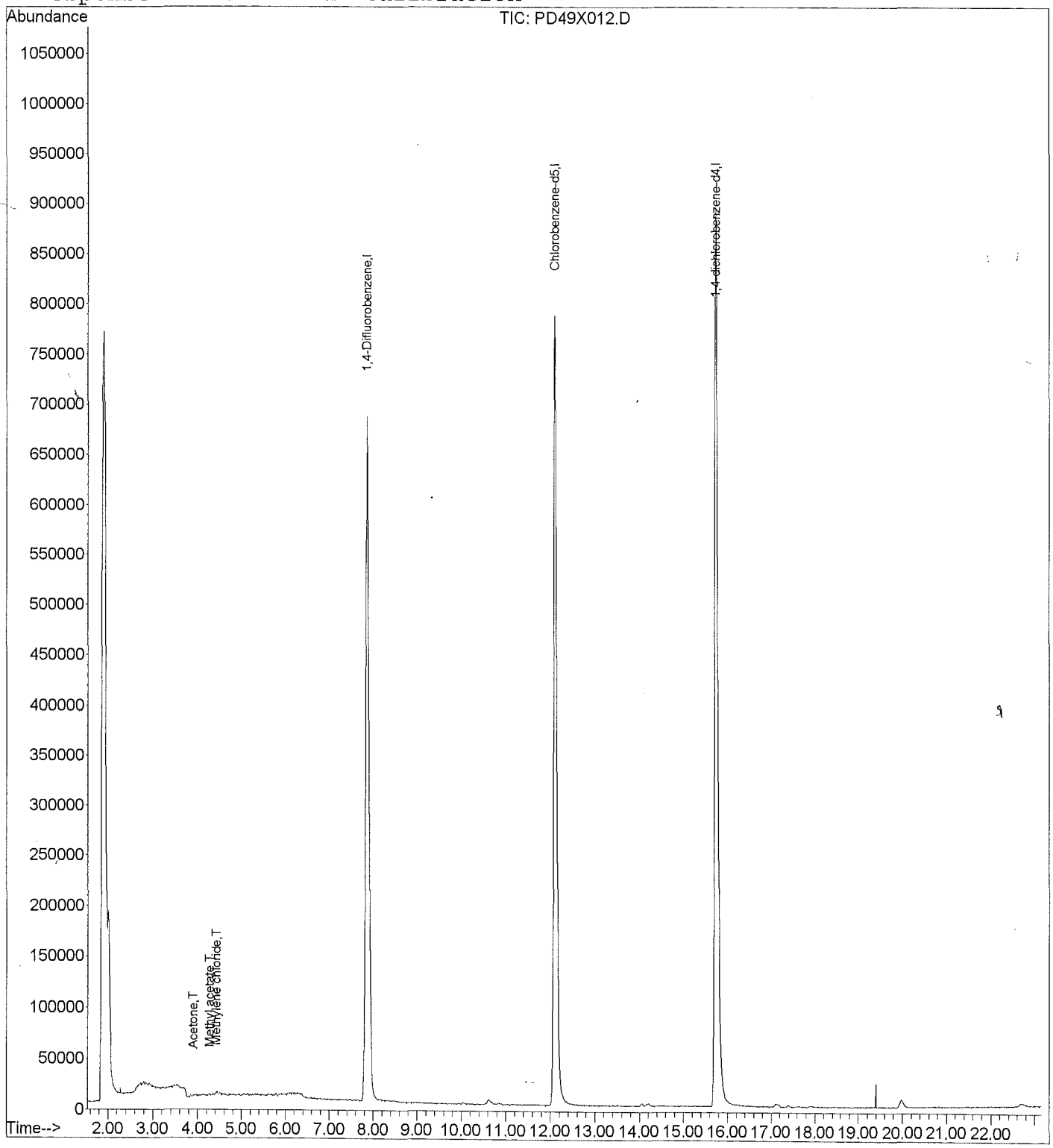
014422

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X012.D
Acq Time : 06/04/2015 21:57 Operator: RJH
Sample : F9M30 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 22:20 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



01423

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X013.D
Acq Time : 06/04/2015 22:26 Operator: RJH
Sample : F9M31 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 22:49 2015 Quant Results File: PCLPSD.RES

Quant 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
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.86	114	1750452	50.0000 ug/Kg	63.25
30) Chlorobenzene-d5	12.09	117	1388977	50.0000 ug/Kg	63.53
62) 1,4-dichlorobenzene-d4	15.73	152	849670	50.0000 ug/Kg	64.48
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	8321	2.9510 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	4.40	43	12127	1.8255 ug/Kg#	57
16) Methylene chloride	4.46	84	5749	0.4656 ug/Kg	90
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	6.16	43	5396	1.3552 ug/Kg#	60
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

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

:041424

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X013.D
Acq Time : 06/04/2015 22:26 Operator: RJH
Sample : F9M31 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 22:49 2015 Quant Results File: PCLPSD.RES

Quant 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
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

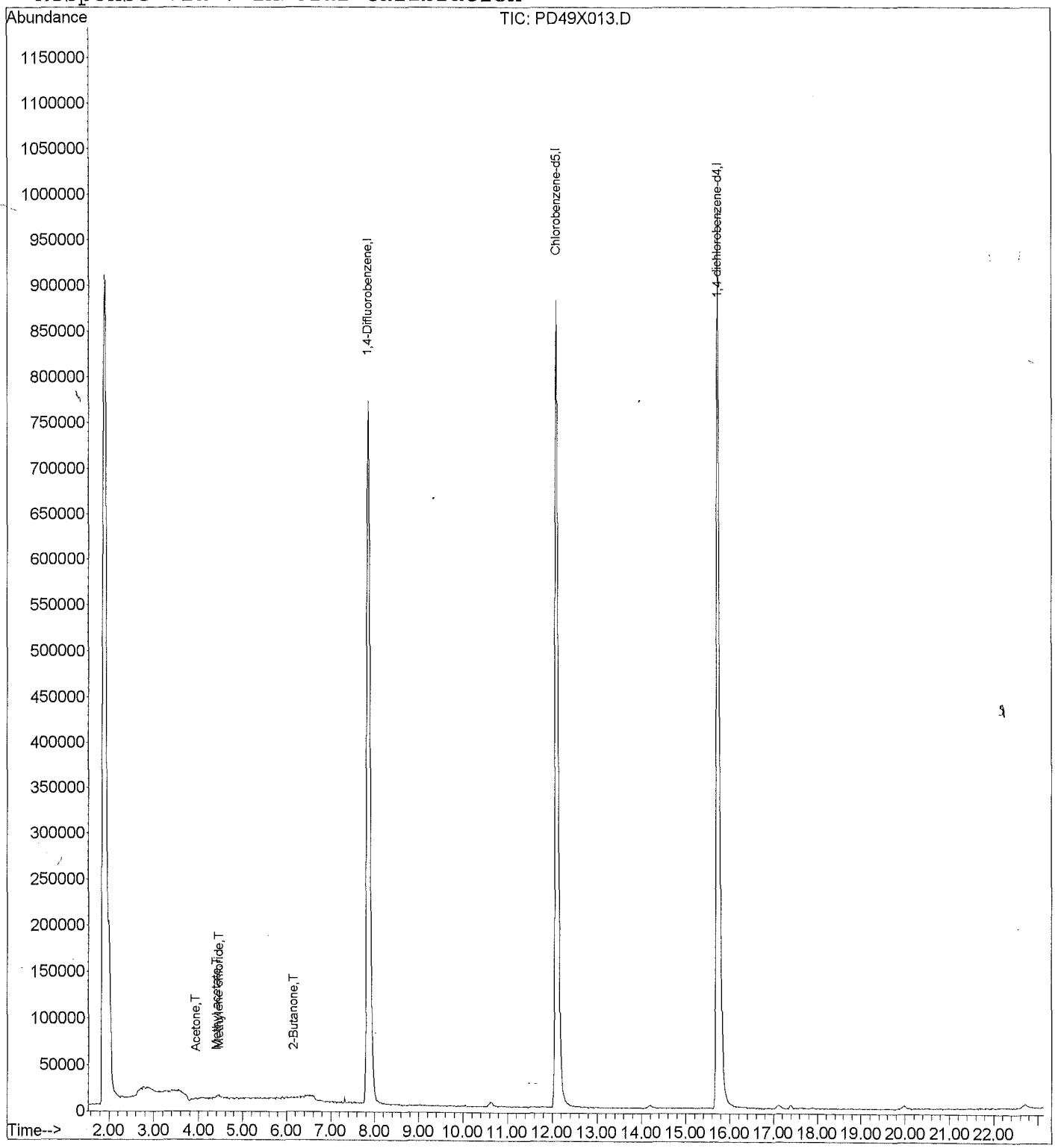
01425

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X013.D
Acq Time : 06/04/2015 22:26 Operator: RJH
Sample : F9M31 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 22:49 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\04JUN15P\PD49X014.D
Acq Time : 06/04/2015 22:55 Operator: RJH
Sample : F9M32 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 23:18 2015 Quant Results File: PCLPSD.RES

Quant 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
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.86	114	1990447	50.0000 ug/Kg	71.92
30) Chlorobenzene-d5	12.08	117	1628210	50.0000 ug/Kg	74.47
62) 1,4-dichlorobenzene-d4	15.72	152	995563	50.0000 ug/Kg	75.55
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	7749	2.4168 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	4.32	43	2840	0.3760 ug/Kg#	57
16) Methylene chloride	4.44	84	5176	0.3687 ug/Kg	93
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	6.15	43	8640	1.9083 ug/Kg#	60
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

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

01427

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X014.D
Acq Time : 06/04/2015 22:55 Operator: RJH
Sample : F9M32 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 23:18 2015 Quant Results File: PCLPSD.RES

Quant 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
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

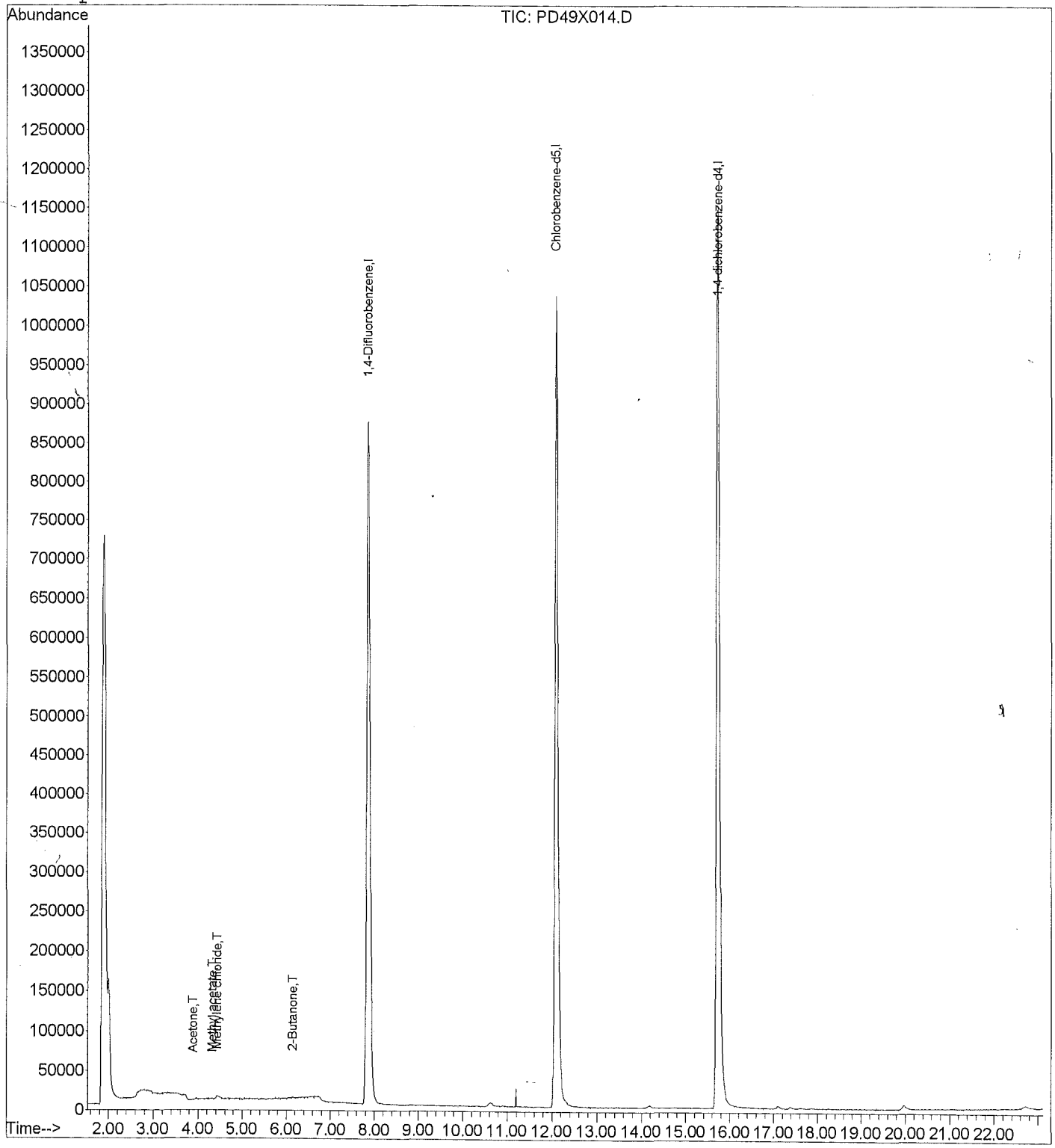
01429

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X014.D
Acq Time : 06/04/2015 22:55 Operator: RJH
Sample : F9M32 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 23:18 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



04429

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X015.D
Acq Time : 06/04/2015 23:24 Operator: RJH
Sample : F9M33 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 23:47 2015 Quant Results File: PCLPSD.RES

Quant 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
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.85	114	1802926	50.0000 ug/Kg	65.14
30) Chlorobenzene-d5	12.08	117	1443705	50.0000 ug/Kg	66.03
62) 1,4-dichlorobenzene-d4	15.71	152	868029	50.0000 ug/Kg	65.87
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	3294	1.1342 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	4.29	43	4119	0.6020 ug/Kg#	57
16) Methylene chloride	4.43	84	4561	0.3586 ug/Kg	87
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	6.17	43	3211	0.7830 ug/Kg#	60
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

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

01438

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X015.D
Acq Time : 06/04/2015 23:24 Operator: RJH
Sample : F9M33 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 23:47 2015 Quant Results File: PCLPSD.RES

Quant 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
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

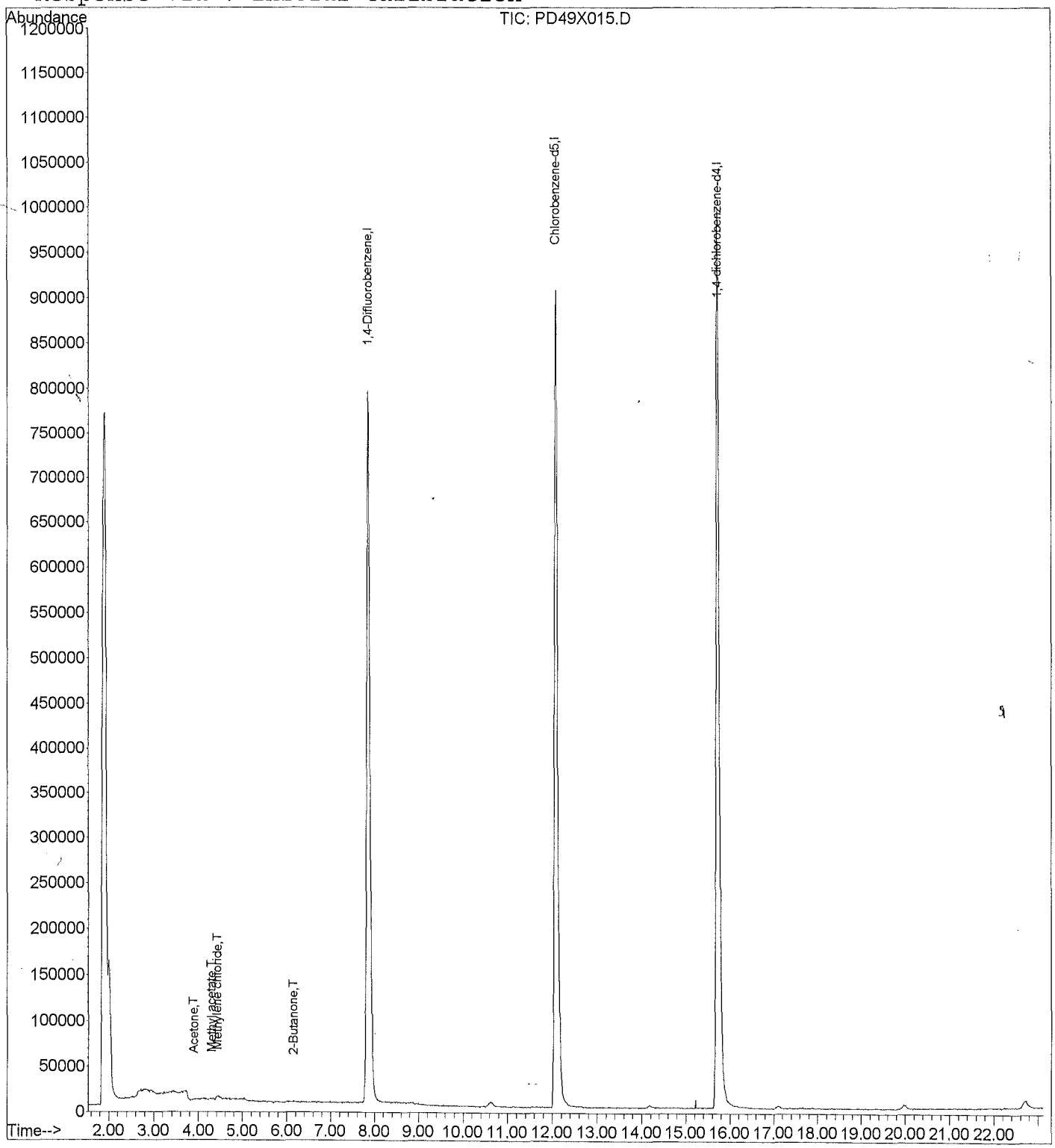
:01431

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X015.D
Acq Time : 06/04/2015 23:24 Operator: RJH
Sample : F9M33 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 4 23:47 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



91432

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X016.D
Acq Time : 06/04/2015 23:52 Operator: RJH
Sample : F9M34 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 5 0:16 2015 Quant Results File: PCLPSD.RES

Quant 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
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.85	114	901638	50.0000 ug/Kg	32.58#
30) Chlorobenzene-d5	12.08	117	836469	50.0000 ug/Kg	38.26#
62) 1,4-dichlorobenzene-d4	15.72	152	550072	50.0000 ug/Kg	41.74#
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	3.90	43	9299	6.4024 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	4.32	43	1397	0.4083 ug/Kg#	57
16) Methylene chloride	4.44	84	4508	0.7088 ug/Kg	93
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

31433

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X016.D
Acq Time : 06/04/2015 23:52 Operator: RJH
Sample : F9M34 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 5 0:16 2015 Quant Results File: PCLPSD.RES

Quant 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
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	10.05	91	7963	0.3375 ug/Kg#	89
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

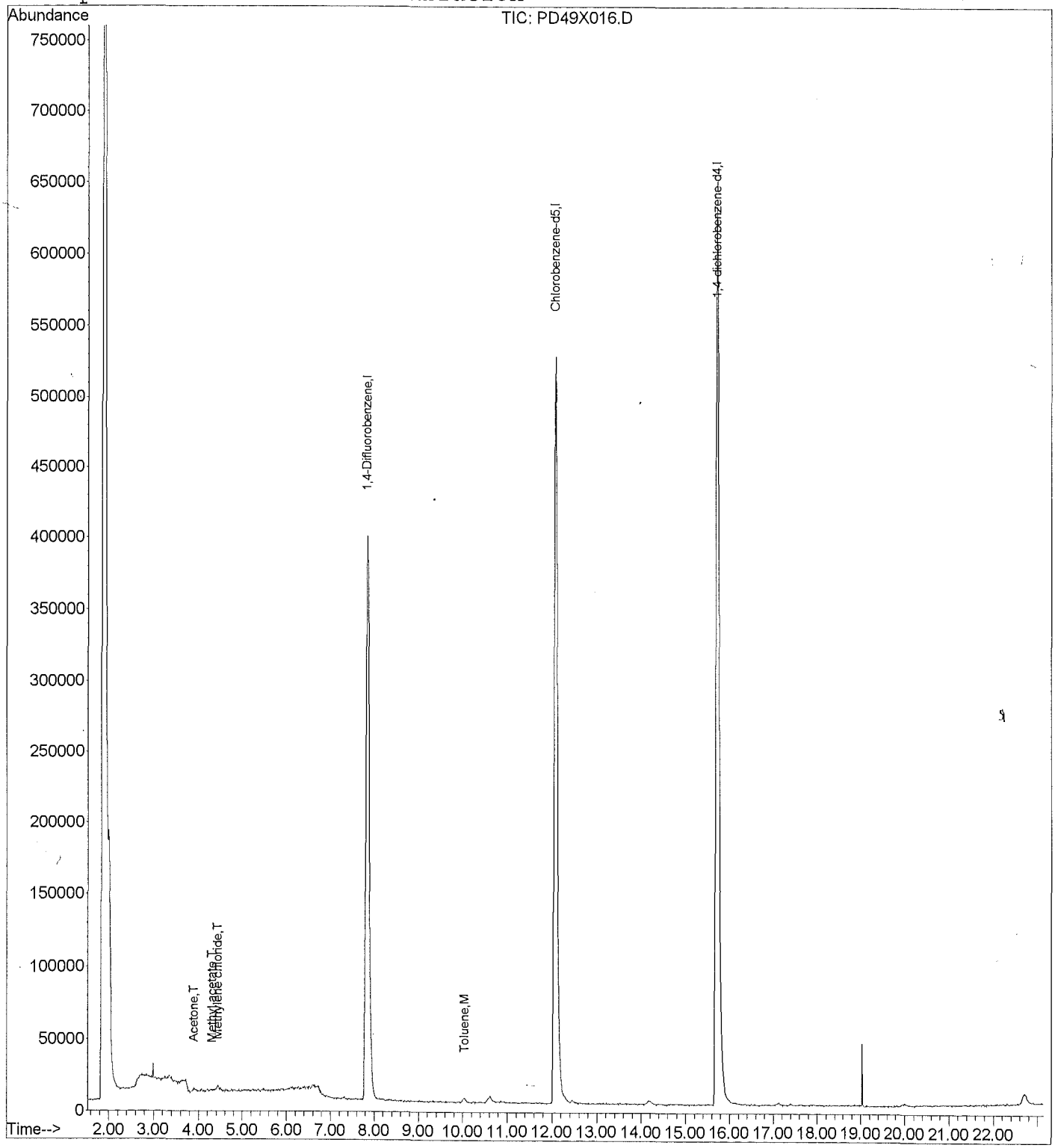
01434

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X016.D
Acq Time : 06/04/2015 23:52 Operator: RJH
Sample : F9M34 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 5 0:16 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



04135

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X017.D
Acq Time : 06/05/2015 00:22 Operator: RJH
Sample : F9M35 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 5 0:45 2015 Quant Results File: PCLPSD.RES

Quant 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
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.85	114	1426679	50.0000 ug/Kg	51.55
30) Chlorobenzene-d5	12.08	117	1206728	50.0000 ug/Kg	55.20
62) 1,4-dichlorobenzene-d4	15.72	152	768804	50.0000 ug/Kg	58.34
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	16.34	152	1236	0.0903 ug/Kg	0.18%#
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	3.91	43	8221	3.5771 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	4.29	43	8276	1.5285 ug/Kg#	57
16) Methylene chloride	4.42	84	3756	0.3732 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	6.15	43	4582	1.4119 ug/Kg#	60
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

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

01436

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X017.D
Acq Time : 06/05/2015 00:22 Operator: RJH
Sample : F9M35 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 5 0:45 2015 Quant Results File: PCLPSD.RES

Quant 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
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

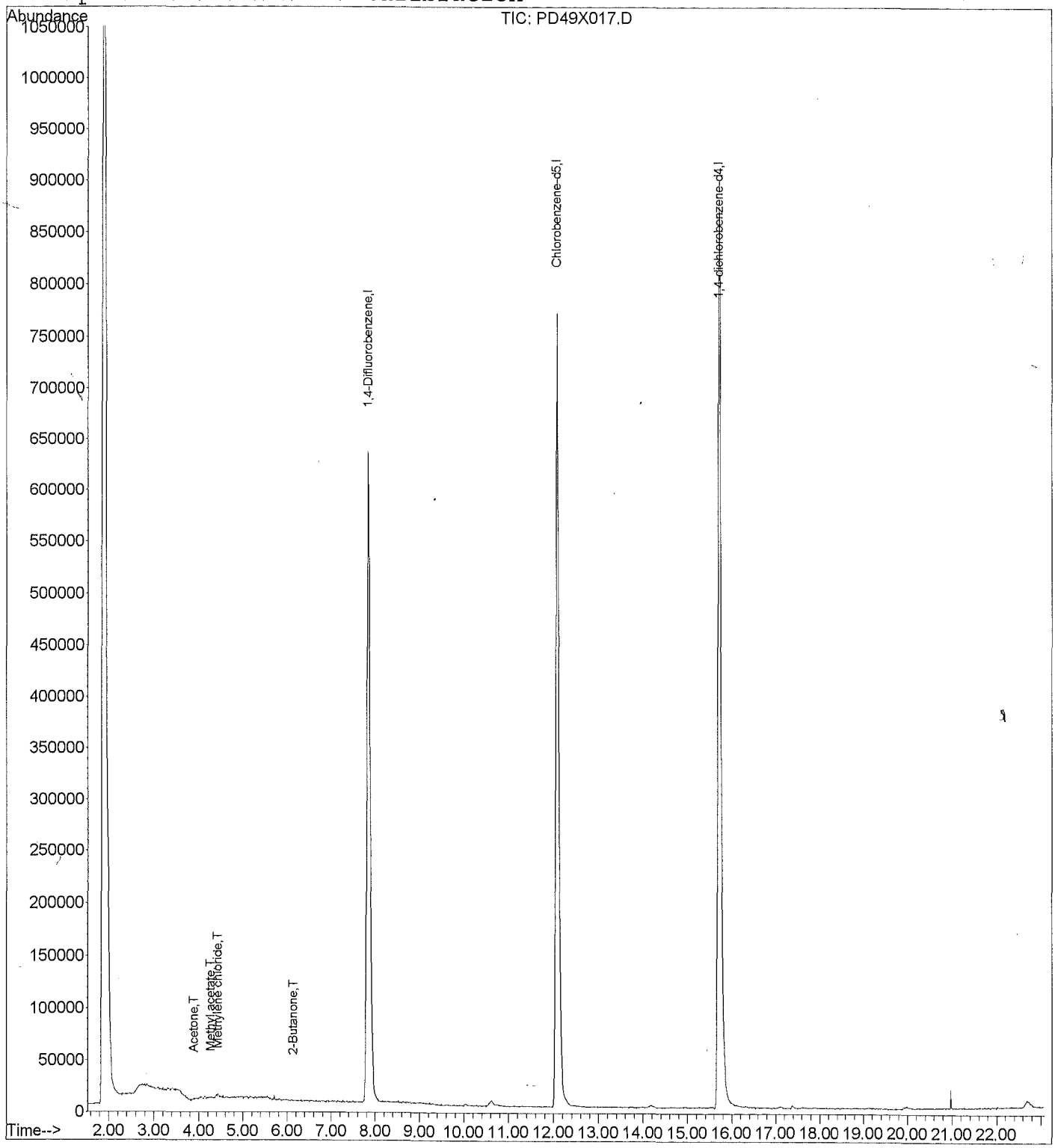
:01437

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X017.D
Acq Time : 06/05/2015 00:22 Operator: RJH
Sample : F9M35 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 5 0:45 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\04JUN15P\PD49X018.D
Acq Time : 06/05/2015 00:51 Operator: RJH
Sample : F9M37 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 5 1:14 2015 Quant Results File: PCLPSD.RES

Quant 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
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.85	114	1758697	50.0000 ug/Kg	63.54
30) Chlorobenzene-d5	12.08	117	1460535	50.0000 ug/Kg	66.80
62) 1,4-dichlorobenzene-d4	15.72	152	906917	50.0000 ug/Kg	68.82
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	16.44	152	1359	0.0842 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	3.88	43	856	0.3021 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	4.40	84	3609	0.2909 ug/Kg#	86
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	3070	0.7674 ug/Kg#	60
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

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

01439

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X018.D
Acq Time : 06/05/2015 00:51 Operator: RJH
Sample : F9M37 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 5 1:14 2015 Quant Results File: PCLPSD.RES

Quant 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
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	

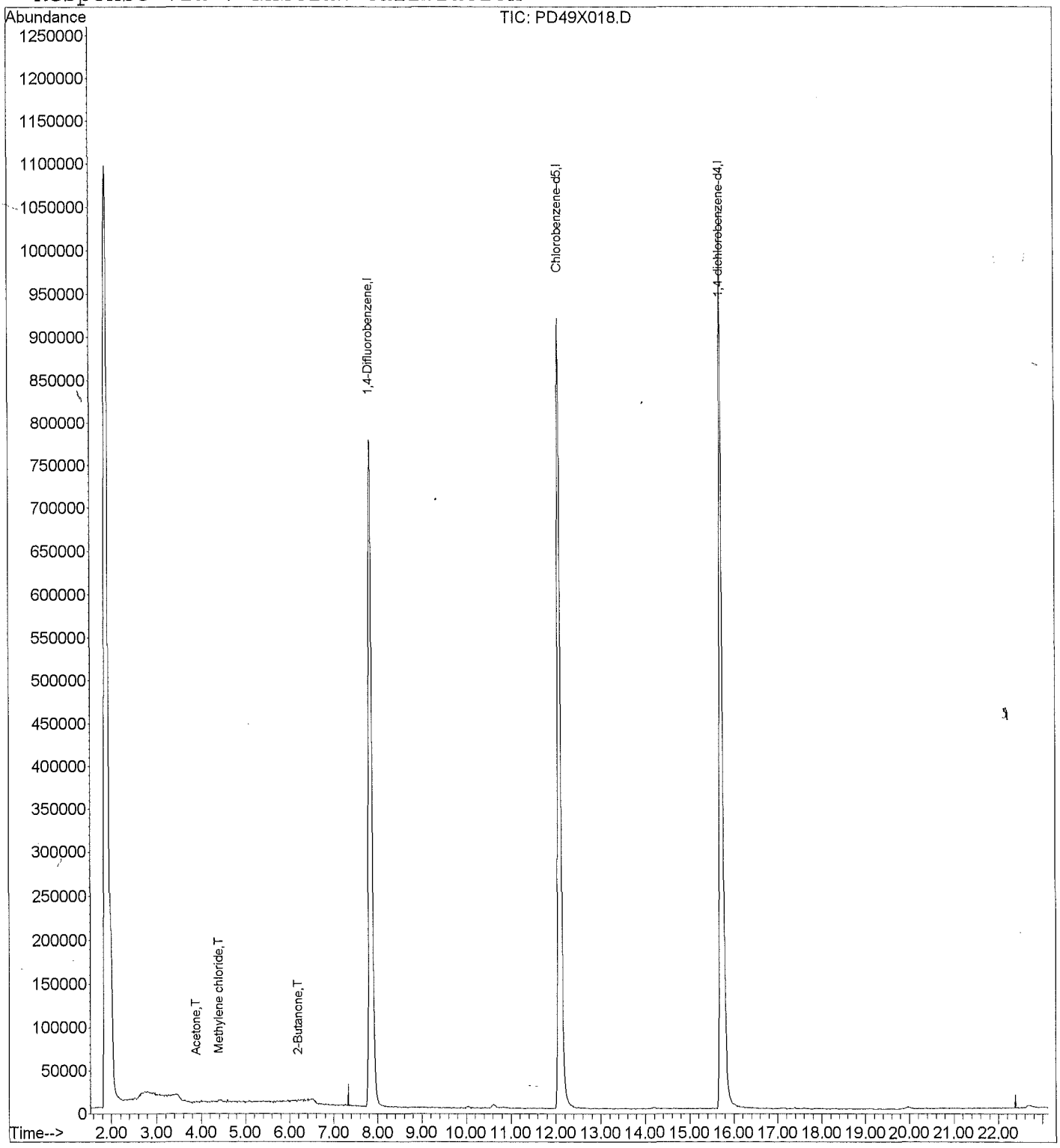
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X018.D
Acq Time : 06/05/2015 00:51 Operator: RJH
Sample : F9M37 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 5 1:14 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\04JUN15P\PD49X019.D
Acq Time : 06/05/2015 01:20 Operator: RJH
Sample : F9M38 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 5 1:43 2015 Quant Results File: PCLPSD.RES

Quant 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
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.84	114	1564893	50.0000 ug/Kg	56.54
30) Chlorobenzene-d5	12.08	117	1312190	50.0000 ug/Kg	60.02
62) 1,4-dichlorobenzene-d4	15.72	152	826297	50.0000 ug/Kg	62.70
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	16.46	152	429	0.0292 ug/Kg	0.06%#
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	3.87	43	1047	0.4153 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	4.36	43	1745	0.2938 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

:01442

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X019.D
Acq Time : 06/05/2015 01:20 Operator: RJH
Sample : F9M38 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 5 1:43 2015 Quant Results File: PCLPSD.RES

Quant 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
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	

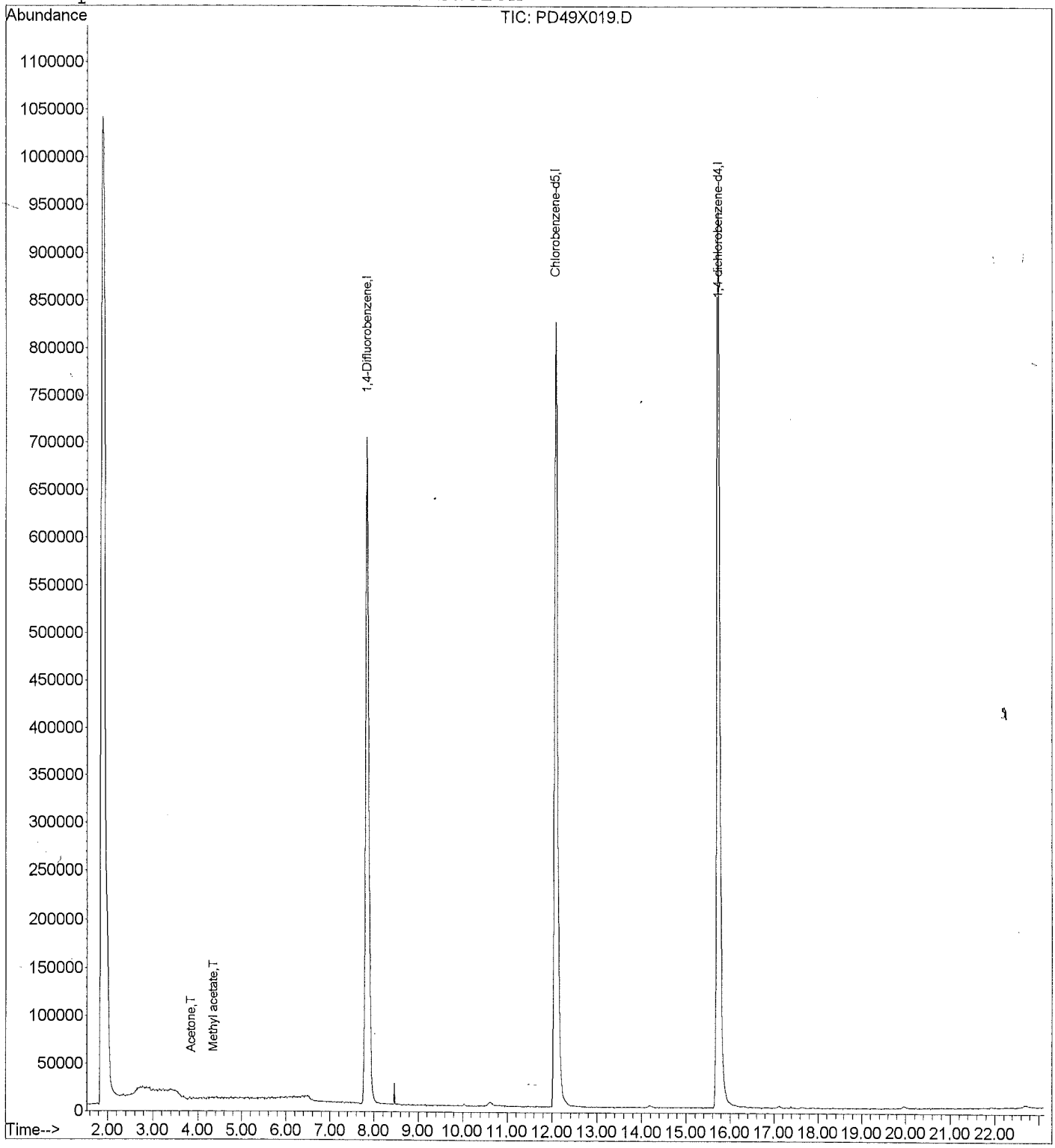
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X019.D
Acq Time : 06/05/2015 01:20 Operator: RJH
Sample : F9M38 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 5 1:43 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\04JUN15P\PD49X020.D
Acq Time : 06/05/2015 01:50
Sample : F9M39
Misc : 1515542

Operator: RJH
Inst : 5972-P
Multiplr: 1.00

Quant Time: Jun 5 2:13 2015

Quant Results File: PCLPSD.RES

Quant 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
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.84	114	1775178	50.0000 ug/Kg	64.14
30) Chlorobenzene-d5	12.09	117	1431275	50.0000 ug/Kg	65.47
62) 1,4-dichlorobenzene-d4	15.72	152	879471	50.0000 ug/Kg	66.74

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	16.48	152	644	0.0411 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	3.85	43	3216	1.1246 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	4.39	84	4885	0.3901 ug/Kg	93
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\04JUN15P\PD49X020.D
Acq Time : 06/05/2015 01:50 Operator: RJH
Sample : F9M39 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 5 2:13 2015 Quant Results File: PCLPSD.RES

Quant 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
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	

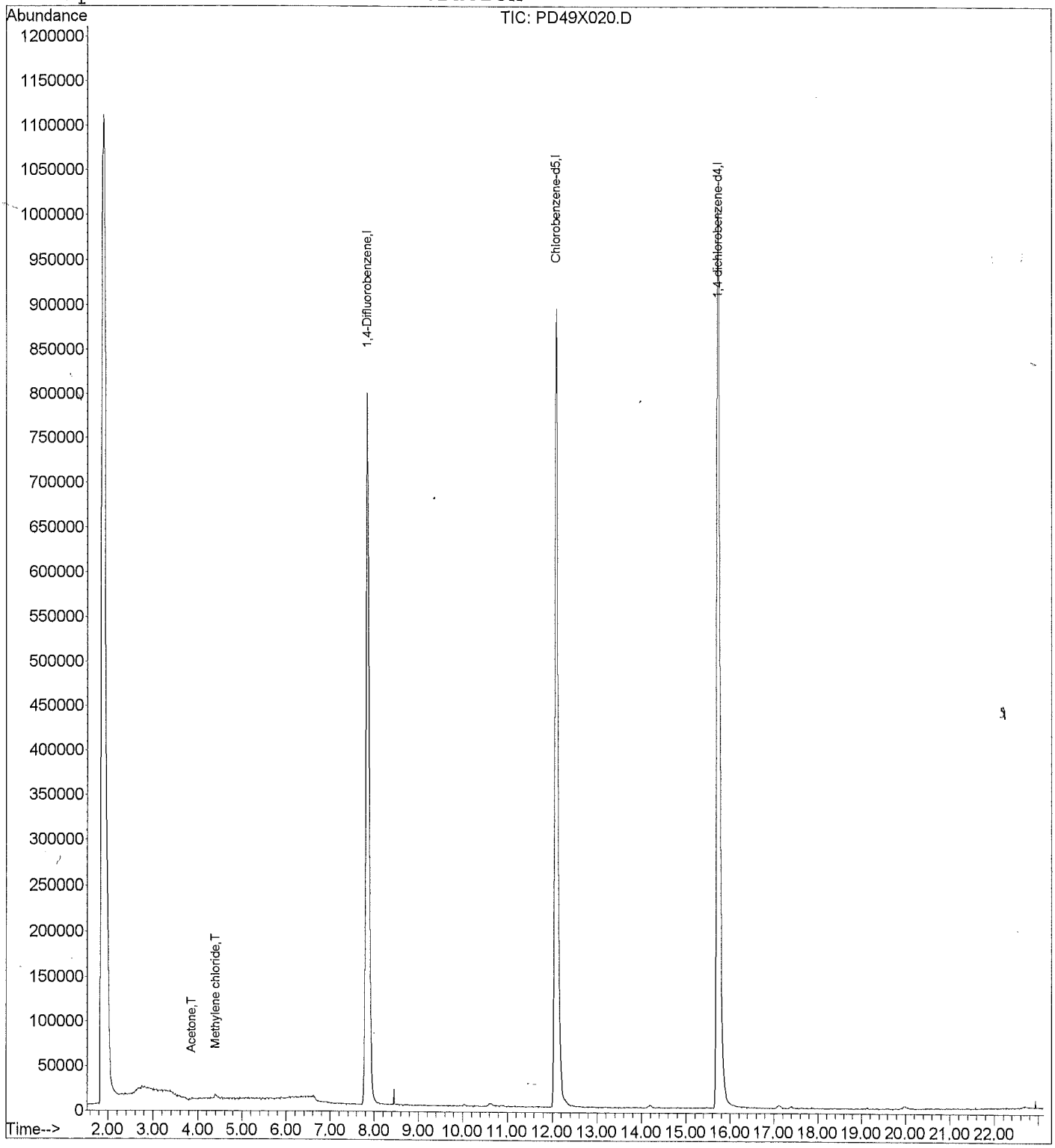
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X020.D
Acq Time : 06/05/2015 01:50 Operator: RJH
Sample : F9M39 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 5 2:13 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\04JUN15P\PD49X021.D
Acq Time : 06/05/2015 02:19 Operator: RJH
Sample : F9M40 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 5 2:43 2015 Quant Results File: PCLPSD.RES

Quant 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
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.84	114	1535257	50.0000 ug/Kg	55.47
30) Chlorobenzene-d5	12.09	117	1284667	50.0000 ug/Kg	58.76
62) 1,4-dichlorobenzene-d4	15.73	152	801998	50.0000 ug/Kg	60.86
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	3.85	43	6858	2.7730 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	4.31	43	1311	0.2250 ug/Kg#	57
16) Methylene chloride	4.37	84	4341	0.4009 ug/Kg	90
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	6.11	43	3703	1.0604 ug/Kg#	60
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\04JUN15P\PD49X021.D
Acq Time : 06/05/2015 02:19
Sample : F9M40
Misc : 1515542

Operator: RJH
Inst : 5972-P
Multiplr: 1.00

Quant Time: Jun 5 2:43 2015

Quant Results File: PCLPSD.RES

Quant 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
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	

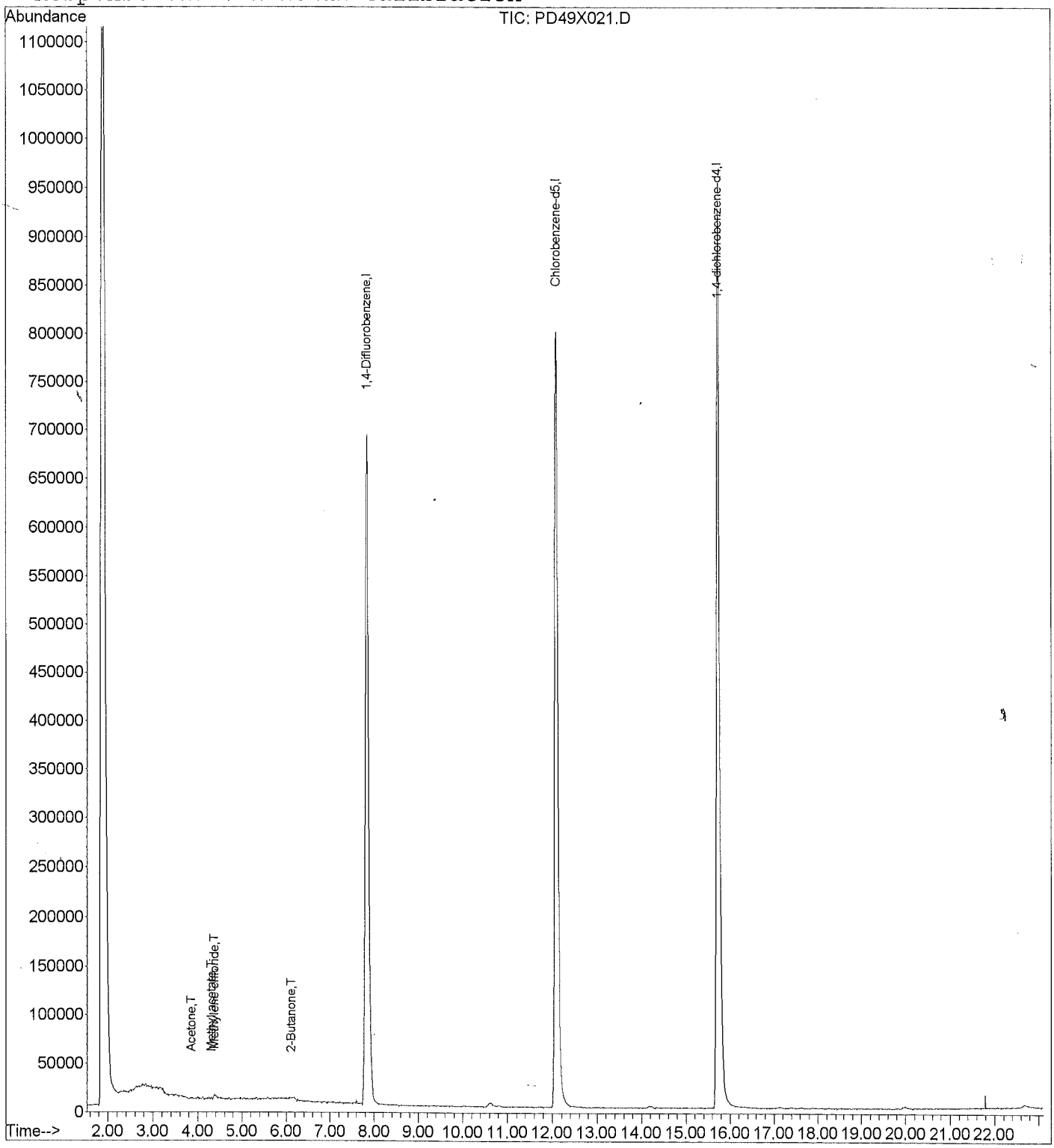
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X021.D
Acq Time : 06/05/2015 02:19 Operator: RJH
Sample : F9M40 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 5 2:43 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\04JUN15P\PD49X022.D
Acq Time : 06/05/2015 02:49 Operator: RJH
Sample : F9M41 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 5 3:12 2015 Quant Results File: PCLPSD.RES

Quant 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
DataAcq Meth : PCLPSD

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.83	114	1630005	50.0000 ug/Kg	58.89
30) Chlorobenzene-d5	12.09	117	1319129	50.0000 ug/Kg	60.34
62) 1,4-dichlorobenzene-d4	15.73	152	824695	50.0000 ug/Kg	62.58
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	16.44	152	664	0.0452 ug/Kg	0.09%#
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	3.87	43	12634	4.8116 ug/Kg#	45
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	4.38	84	4366	0.3797 ug/Kg	87
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

014454

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X022.D
Acq Time : 06/05/2015 02:49 Operator: RJH
Sample : F9M41 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 5 3:12 2015 Quant Results File: PCLPSD.RES

Quant 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
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

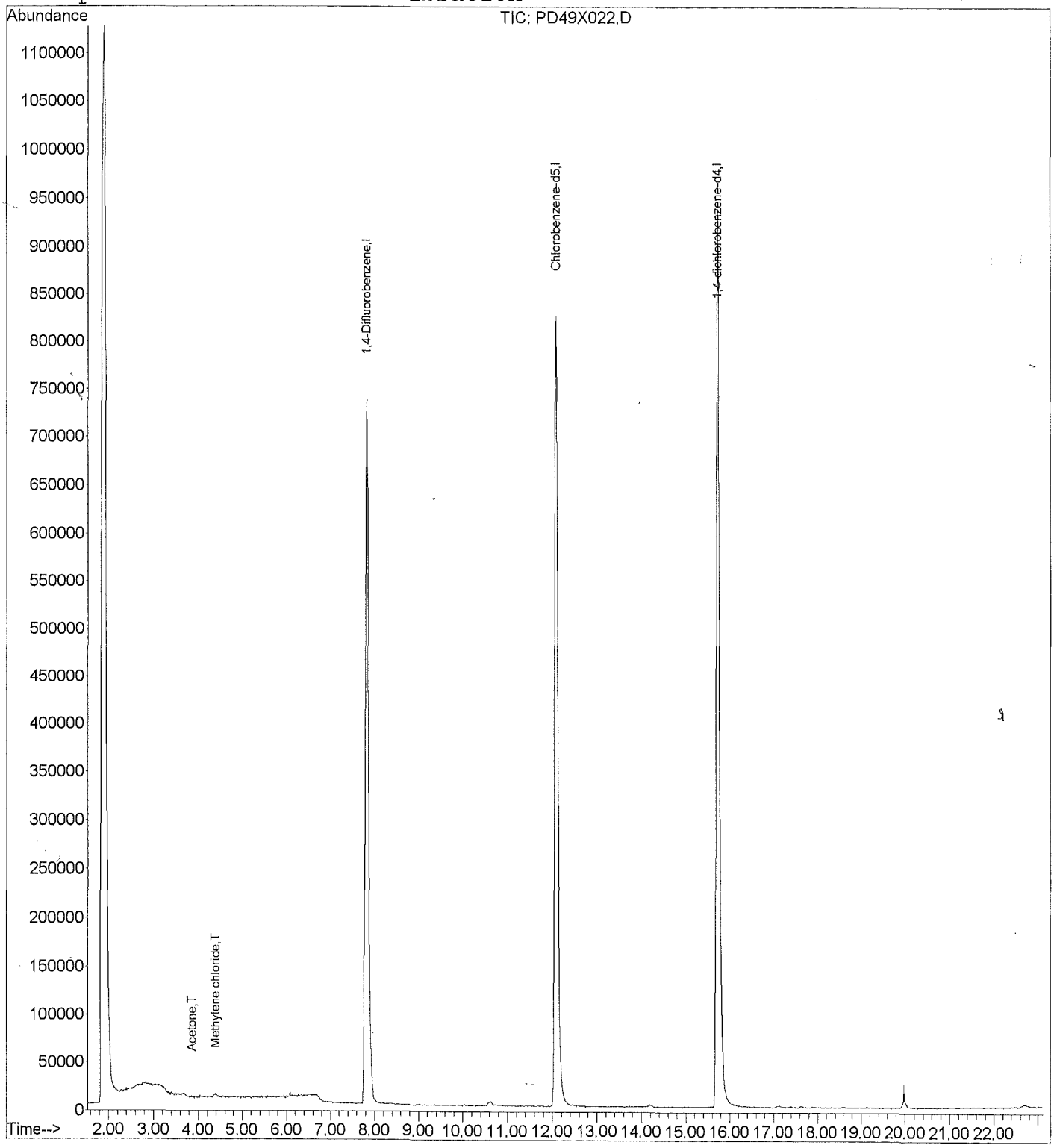
01452

Quantitation Report

Data File : D:\HPCHEM\1\DATA\04JUN15P\PD49X022.D
Acq Time : 06/05/2015 02:49 Operator: RJH
Sample : F9M41 Inst : 5972-P
Misc : 1515542 Multiplr: 1.00

Quant Time: Jun 5 3:12 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



01453

% Moistures & Solids

Analyst: IJO
Queue: EGRV
Batch: 5198
Instrument: GRAV03

Oven Start Time	06/04/2015 12:00	**Start Oven Temp:**	105°	**Start Desiccator:**	06/05/2015 07:30
Oven Finish Time	06/05/2015 07:30	**End Oven Temp:**	105°	**End Desiccator:**	06/05/2015 08:30

Workorder	Dish#	Lab Sample ID	Dish (g)	Dish + Soil (g)	Soil Weight (g)	Dish + DS (g)	Dry Soil (g)	% Solids	% Moistures
1515542	1	1515542001	1.3208	9.7398	8.4190	8.1897	6.8689	81.5881%	18.4119%
1515542	2	1515542002	1.3081	9.9988	8.6907	8.9301	7.6220	87.7029%	12.2971%
1515542	3	1515542003	1.3236	9.9618	8.6382	8.6962	7.3726	85.3488%	14.6512%
1515542	4	1515542004	1.3151	9.7551	8.4400	8.5453	7.2302	85.6659%	14.3341%
1515542	5	1515542005	1.3137	9.8046	8.4909	7.7979	6.4842	76.3665%	23.6335%
1515542	6	1515542006	1.3123	9.8944	8.5821	8.5654	7.2531	84.5143%	15.4857%
1515542	7	1515542007	1.3117	9.9267	8.6150	8.2698	6.9581	80.7673%	19.2327%
1515542	8	450004	1.3116	9.9955	8.6839	8.2895	6.9779	80.3544%	19.6456%
1515542	9	1515542010	1.3165	9.9097	8.5932	8.4169	7.1004	82.6281%	17.3719%
1515542	10	1515542011	1.3146	9.8108	8.4962	8.6418	7.3272	86.2409%	13.7591%
1515542	11	1515542012	1.3129	9.7283	8.4154	8.4710	7.1581	85.0595%	14.9405%
1515542	12	1515542013	1.3144	9.9297	8.6153	8.6135	7.2991	84.7225%	15.2775%
1515542	13	1515542014	1.3210	9.7130	8.3920	8.5009	7.1799	85.5565%	14.4435%
1515542	14	1515542015	1.3126	9.6744	8.3618	8.6782	7.3656	88.0863%	11.9137%
1515542	15	1515542016	1.3167	9.8407	8.5240	8.3040	6.9873	81.9721%	18.0279%
1515542	16	1515542017	1.3152	9.6055	8.2903	8.0998	6.7846	81.8378%	18.1622%
1515542	17	1515542018	1.3189	9.8500	8.5311	8.6244	7.3055	85.6337%	14.3663%
1515542	18	1515542019	1.3260	9.6661	8.3401	8.6389	7.3129	87.6836%	12.3164%
1515542	19	1515542020	1.3147	9.6817	8.3670	8.6214	7.3067	87.3276%	12.6724%
1515542	20	1515542021	1.3131	9.7176	8.4045	8.6532	7.3401	87.3354%	12.6646%
1515542	21	1515542022	1.3093	9.7054	8.3961	8.4912	7.1819	85.5385%	14.4615%

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: 02JUN15
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

Ref # 20406.016.005.0919.01
Invoice #
PO #
Dept #

10:07
6/3/2015

WED - 03 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 7737 3701 5872
0201

84123
UT-US
SLC

XH BTFA

537J1/8A0E/EE4B

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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: 02JUN15
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

Ref # 20406.016.005.0919.01
Invoice #
PO #
Dept #

6/3/2015 10:08

WED - 03 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 7737 3700 6238
0201

XH BTFA

84123
UT-US
SLC

537J1/840E/EE4B

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Derrick Cobb
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Ste. 700
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Origin ID: HOUA

FedEx Express

J151215022303uv

SHIP TO: (801) 266-7700 BILL SENDER
Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

Ship Date: 02JUN15
ActWgt: 70.0 LB
CAD: 2557564/NET3610

Dims: 22 X 16 X 14 IN

Delivery Address Bar Code

Ref # 20406.016.005.0919.01
Invoice #
PO #
Dept #

May 6/3/2015 10:5X

WED - 03 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 7737 3706 8486
0201

84123
UT-US
SLC

XH BTFA

537J1/8A0E/EE4B

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Derrick Cobb
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5599 San Felipe St
Ste. 700
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Origin ID: HOUA

FedEx Express

J151215022303uv

SHIP TO: (801) 266-7700 BILL SENDER

Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

Ship Date: 02JUN15
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 #

MR 6/3/2015 10:05

WED - 03 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7737 3703 6285

XH BTFA

84123
UT-US
SLC

537J/83A0/E/EE4B

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From: (832) 347-4180
Derrick Cobb
Weston Solutions, Inc
5599 San Felipe St
Ste. 700
HOUSTON, TX 77056

Origin ID: HOUA

FedEx Express

J15121502300uv

SHIP TO: (801) 266-7700 BILL SENDER
Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

Ship Date: 02JUN15
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 #

MN 6/3/2015 1007

WED - 03 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 7737 3710 6995
0201

XH BTFA

84123
UT-US
SLC

537J/340E/EE4B

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From: (832) 347-4180
Derrick Cobb
Weston Solutions, Inc
5599 San Felipe St
Ste. 700
HOUSTON, TX 77056

Origin ID: HOUA

FedEx Express

J1512150223033uv

Ship Date: 02JUN15
ActWgt: 70.0 LB
CAD: 2557564/NET3610

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

6/3/2015 10:07

WED - 03 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7737 3264 0238

84123
UT-US
SLC

XH BTFA

537J18A0E/EE4B

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Meredith Edwards
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960 West Levoy Street

Salt Lake City, UT 84123

Ref # 20406.016.005.0919.01
Invoice #
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Dept #

Alt 6/3/2015 10:07

WED - 03 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 7737 3712 1790
0201

XH BTFA

84123
UT-US
SLC

537J1/8A0E/EE4B

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HOUSTON, TX 77056

Origin ID: HOUA

FedEx Express

J151215022303uv

SHIP TO: (801) 266-7700 BILL SENDER

Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

Ship Date: 02JUN15
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 #

Rec 6/3/2015 10:07

WED - 03 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7737 3700 1074

XH BTFA

84123
UT-US
SLC

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Meredith Edwards
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Salt Lake City, UT 84123

Ship Date: 02JUN15
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Dims: 22 X 16 X 14 IN

Delivery Address Bar Code

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Dept #

MR 6/3/2015 1007

WED - 03 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 7737 3702 7052
0201

XH BTFA

84123
UT-US
SLC

537J1A0E/EE4B

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Derrick Cobb
Weston Solutions, Inc
5599 San Felipe St
Ste. 700
HOUSTON, TX 77056

Origin ID: HOUA

FedEx Express

J151215022305uv

Ship Date: 02JUN15
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

6/3/2015 10:07

WED - 03 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7737 3709 0477

84123
UT-US
SLC

XH BTFA

537J1/8A0E/EE4B

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W 1515542

USEPA CLP COC (LAB COPY)

DateShipped: 6/2/2015

CarrierName: FedEx

AirbillNo: 773737015872

CHAIN OF CUSTODY RECORD

F9M21

Case #: 45316

Cooler #:

No: 6-060215-181745-0082

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-011-002-06-51	F9M21	Soil/ START	Composite	VOA(21)	1428 (Ice) (3)	011	06/02/2015 08:15	
WO-011-002-12-51	F9M22	Soil/ START	Composite	VOA(21)	1433 (Ice) (3)	011	06/02/2015 08:20	
WO-011-002-24-51	F9M23	Soil/ START	Composite	VOA(21)	1438 (Ice) (3)	011	06/02/2015 08:25	
WO-011-002-24-52	F9M24	Soil/ START	Composite	VOA(21)	1443 (Ice) (3)	011	06/02/2015 08:30	
WO-011-001-06-51	F9M25	Soil/ START	Composite	VOA(21)	1448 (Ice) (3)	011	06/02/2015 08:55	
WO-011-001-12-51	F9M26	Soil/ START	Composite	VOA(21)	1453 (Ice) (3)	011	06/02/2015 09:00	
WO-011-001-24-51	F9M27	Soil/ START	Composite	VOA(21)	1458 (Ice) (3)	011	06/02/2015 09:05	
WO-011-003-06-51	F9M28	Soil/ START	Composite	VOA(21)	1463 (Ice) (3)	011	06/02/2015 09:10	
WO-011-003-12-51	F9M29	Soil/ START	Composite	VOA(21)	1468 (Ice) (3)	011	06/02/2015 09:15	
WO-011-003-24-51	F9M30	Soil/ START	Composite	VOA(21)	1473 (Ice) (3)	011	06/02/2015 09:20	

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
Samples/ Analysis	Weston	6/2/15 @ 2100	FedEx	6/2/15 @ 2100	
	FedEx	6/3/2015 10:07	Meredith Edwards DATAC	6/3/2015 10:07	good

USEPA CLP COC (LAB COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737015872

CHAIN OF CUSTODY RECORD F9M21

Case #: 45316
Cooler #:

No: 6-060215-181745-0082
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-011-004-06-51	F9M31	Soil/ START	Composite	VOA(21)	1478 (Ice) (3)	011	06/02/2015 09:50	
WO-011-004-12-51	F9M32	Soil/ START	Composite	VOA(21)	1483 (Ice) (3)	011	06/02/2015 09:55	
WO-011-004-24-51	F9M33	Soil/ START	Composite	VOA(21)	1488 (Ice) (3)	011	06/02/2015 10:00	
WO-002-001-00-51	F9M34	Soil/ START	Composite	VOA(21)	1493 (Ice) (3)	011	06/02/2015 11:20	
WO-002-001-00-52	F9M35	Soil/ START	Composite	VOA(21)	1498 (Ice) (3)	002	06/02/2015 11:25	
WO-002-002-00-51	F9M36	Soil/ START	Composite	VOA(21)	1503 (Ice) (3)	002	06/02/2015 11:45	
WO-002-003-00-51	F9M37	Soil/ START	Composite	VOA(21)	1508 (Ice) (3)	002	06/02/2015 13:30	
WO-002-004-00-51	F9M38	Soil/ START	Composite	VOA(21)	1513 (Ice) (3)	002	06/02/2015 13:05	
WO-002-004-00-52	F9M39	Soil/ START	Composite	VOA(21)	1518 (Ice) (3)	002	06/02/2015 13:10	
WO-002-003-06-51	F9M40	Soil/ START	Composite	VOA(21)	1523 (Ice) (3)	002	06/02/2015 13:40	

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
Samples/Analysis	[signature] Weston	6/2/15 @ 2100	FedEx	6/2/15 @ 2100	
	FedEx	6/3/2015 10:07	Meredith Edwards DATAC	6/3/2015 10:07	good

USEPA CLP COC (LAB COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737015872

CHAIN OF CUSTODY RECORD F9M21

Case #: 45316
Cooler #:

No: 6-060215-181745-0082
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-002-003-12-51	F9M41	Soil/ START	Composite	VOA(21)	1528 (Ice) (3)	002	06/02/2015 13:45	SRE Final Sample
WO-002-001-06-51	F9M42	Soil/ START	Composite	VOA(21)	1533 (Ice) (3)	002	06/02/2015 14:30	
WO-002-001-12-51	F9M43	Soil/ START	Composite	VOA(21)	1538 (Ice) (3)	002	06/02/2015 14:35	6/3/2015
WO-002-002-06-51	F9M44	Soil/ START	Composite	VOA(21)	1543 (Ice) (3)	002	06/02/2015 16:30	
WO-002-004-06-51	F9M45	Soil/ START	Composite	VOA(21)	1548 (Ice) (3)	002	06/02/2015 16:45	
WO-011-002-44-20150602	F9M46	Water/ START	Grab	VOA(21)	1552 (HCl) (3)	FieldQC	06/02/2015 17:25	

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
Samples/Analysis	[signature] Weston	6/2/15 @ 2100	FedEx	6/2/15 @ 2100	
	FedEx	6/3/2015 10:07	Meredith Edwards DATAL	6/3/2015/10:07	good

USEPA CLP COC (LAB COPY) | **CHAIN OF CUSTODY RECORD** F9M21 | **No: 6-060215-183123-0083**

DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 7737370066238

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-011-002-06-51	F9M21	Soil/ START	Composite	CLP Moisture(21)	1431 (Ice) (1)	011	06/02/2015 08:15	
WO-011-002-12-51	F9M22	Soil/ START	Composite	CLP Moisture(21)	1436 (Ice) (1)	011	06/02/2015 08:20	
WO-011-002-24-51	F9M23	Soil/ START	Composite	CLP Moisture(21)	1441 (Ice) (1)	011	06/02/2015 08:25	
WO-011-002-24-52	F9M24	Soil/ START	Composite	CLP Moisture(21)	1446 (Ice) (1)	011	06/02/2015 08:30	
WO-011-001-06-51	F9M25	Soil/ START	Composite	CLP Moisture(21)	1451 (Ice) (1)	011	06/02/2015 08:55	
WO-011-001-12-51	F9M26	Soil/ START	Composite	CLP Moisture(21)	1456 (Ice) (1)	011	06/02/2015 09:00	
WO-011-001-24-51	F9M27	Soil/ START	Composite	CLP Moisture(21)	1461 (Ice) (1)	011	06/02/2015 09:05	
WO-011-003-06-51	F9M28	Soil/ START	Composite	CLP Moisture(21)	1466 (Ice) (1)	011	06/02/2015 09:10	
WO-011-003-12-51	F9M29	Soil/ START	Composite	CLP Moisture(21)	1471 (Ice) (1)	011	06/02/2015 09:15	
WO-011-004-06-51	F9M31	Soil/ START	Composite	CLP Moisture(21)	1481 (Ice) (1)	011	06/02/2015 09:50	

Special Instructions:	**Shipment for Case Complete? N**
	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
Samples/Analysis	Weston	6/2/15 @ 2100	FedEx	6/2/15 @ 2100	
	FedEx	6/3/2015/10:07	Meredith Edwards DATAL	6/3/2015/10:07	good

SEA 4135

USEPA CLP COC (LAB COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 7737370066238

CHAIN OF CUSTODY RECORD F9M21

Case #: 45316
Cooler #:

No: 6-060215-183123-0083
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-011-004-12-51	F9M32	Soil/ START	Composite	CLP Moisture(21)	1486 (Ice) (1)	011	06/02/2015 09:55	
WO-011-004-24-51	F9M33	Soil/ START	Composite	CLP Moisture(21)	1491 (Ice) (1)	011	06/02/2015 10:00	
WO-002-001-00-52	F9M35	Soil/ START	Composite	CLP Moisture(21)	1501 (Ice) (1)	002	06/02/2015 11:25	
WO-002-002-00-51	F9M36	Soil/ START	Composite	CLP Moisture(21)	1506 (Ice) (1)	002	06/02/2015 11:45	
WO-002-003-00-51	F9M37	Soil/ START	Composite	CLP Moisture(21)	1511 (Ice) (1)	002	06/02/2015 13:30	
WO-002-004-00-51	F9M38	Soil/ START	Composite	CLP Moisture(21)	1516 (Ice) (1)	002	06/02/2015 13:05	
WO-002-004-00-52	F9M39	Soil/ START	Composite	CLP Moisture(21)	1521 (Ice) (1)	002	06/02/2015 13:10	
WO-002-003-06-51	F9M40	Soil/ START	Composite	CLP Moisture(21)	1526 (Ice) (1)	002	06/02/2015 13:40	
WO-002-003-12-51	F9M41	Soil/ START	Composite	CLP Moisture(21)	1531 (Ice) (1)	002	06/02/2015 13:45	SDG Field Sample
WO-002-001-06-51	F9M42	Soil/ START	Composite	CLP Moisture(21)	1536 (Ice) (1)	002	06/02/2015 14:30	

Special Instructions:	**Shipment for Case Complete? N**
	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
Samples/Analysis	Weston	6/2/15 @ 2100	FedEx	6/2/15 @ 2100	
	FedEx	6/3/2015 10:07	Meredith Edwards DATAC	6/3/2015 10:07	good

USEPA CLP COC (LAB COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737068486

CHAIN OF CUSTODY RECORD F9M21

Case #: 45316
Cooler #:

No: 6-060215-165115-0078
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-011-002-24-51	F9M23	Soil/ START	Composite	PEST+ARO(21)	1440 (Ice) (2)	011	06/02/2015 08:25	
WO-011-001-06-51	F9M25	Soil/ START	Composite	PEST+ARO(21)	1450 (Ice) (2)	011	06/02/2015 08:55	
WO-011-001-12-51	F9M26	Soil/ START	Composite	PEST+ARO(21)	1455 (Ice) (2)	011	06/02/2015 09:00	
WO-011-001-24-51	F9M27	Soil/ START	Composite	PEST+ARO(21)	1460 (Ice) (4)	011	06/02/2015 09:05	
WO-002-001-00-52	F9M35	Soil/ START	Composite	PEST+ARO(21)	1500 (Ice) (2)	002	06/02/2015 11:25	
WO-002-004-00-51	F9M38	Soil/ START	Composite	PEST+ARO(21)	1515 (Ice) (2)	002	06/02/2015 13:05	
WO-002-004-00-52	F9M39	Soil/ START	Composite	PEST+ARO(21)	1520 (Ice) (2)	002	06/02/2015 13:10	

Sample(s) to be used for Lab QC: WO-011-001-24-51 Tag 1460	**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	Rich Weston	6/2/15 @ 2100	FedEx	6/2/15 @ 2100	
	FedEx	6/3/2015 10:09	Meredith Edwards DATAC	6/3/2015 10:09	good

USEPA CLP COC (LAB COPY)

DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737036285

CHAIN OF CUSTODY RECORD F9M21

Case #: 45316
Cooler #:

No: 6-060215-175343-0080

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-011-003-06-51	F9M28	Soil/ START	Composite	PEST+ARO(21)	1465 (Ice) (2)	011	06/02/2015 09:10	
WO-011-003-12-51	F9M29	Soil/ START	Composite	PEST+ARO(21)	1470 (Ice) (2)	011	06/02/2015 09:15	
WO-002-003-00-51	F9M37	Soil/ START	Composite	PEST+ARO(21)	1510 (Ice) (2)	002	06/02/2015 13:30	
WO-002-003-06-51	F9M40	Soil/ START	Composite	PEST+ARO(21)	1525 (Ice) (2)	002	06/02/2015 13:40	
WO-002-003-12-51	F9M41	Soil/ START	Composite	PEST+ARO(21)	1530 (Ice) (2)	002	06/02/2015 13:45	
WO-002-001-06-51	F9M42	Soil/ START	Composite	PEST+ARO(21)	1535 (Ice) (2)	002	06/02/2015 14:30	
WO-002-001-12-51	F9M43	Soil/ START	Composite	PEST+ARO(21)	1540 (Ice) (2)	002	06/02/2015 14:35	

6/3/2015

CLP Field Sample

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	Weston	6/2/15 @ 2100	FedEx	6/2/15 @ 2100	
	FedEx	6/3/2015 10:07	Meredith Edwards DAPHL	6/3/2015 10:07	good

USEPA CLP COC (LAB COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737106995

CHAIN OF CUSTODY RECORD F9M21

Case #: 45316
Cooler #:

No: 6-060215-153540-0076
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-011-002-06-51	F9M21	Soil/ START	Composite	PEST+ARO(21)	1430 (Ice) (2)	011	06/02/2015 08:15	
WO-011-002-12-51	F9M22	Soil/ START	Composite	PEST+ARO(21)	1435 (Ice) (2)	011	06/02/2015 08:20	
WO-011-002-24-52	F9M24	Soil/ START	Composite	PEST+ARO(21)	1445 (Ice) (2)	011	06/02/2015 08:30	
WO-011-004-06-51	F9M31	Soil/ START	Composite	PEST+ARO(21)	1480 (Ice) (2)	011	06/02/2015 09:50	
WO-011-004-12-51	F9M32	Soil/ START	Composite	PEST+ARO(21)	1485 (Ice) (2)	011	06/02/2015 09:55	
WO-011-004-24-51	F9M33	Soil/ START	Composite	PEST+ARO(21)	1490 (Ice) (2)	011	06/02/2015 10:00	
WO-002-002-00-51	F9M36	Soil/ START	Composite	PEST+ARO(21)	1505 (Ice) (4)	002	06/02/2015 11:45	

Sample(s) to be used for Lab QC: WO-002-002-00-51 Tag 1505	**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
			Meredith Edwards DATAC	6/3/2015 10:07	good

USEPA CLP COC (LAB COPY)

DateShipped: 6/2/2015

CarrierName: FedEx

AirbillNo: 773732640238

CHAIN OF CUSTODY RECORD F9M21

Case #: 45316

Cooler #:

No: 6-060215-190153-0086

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-011-003-24-51	F9M30	Soil/ START	Composite	PEST+ARO(21), CLP Moisture(21)	1475 (Ice), 1476 (Ice) (3)	011	06/02/2015 09:20	
WO-002-001-00-51	F9M34	Soil/ START	Composite	PEST+ARO(21), CLP Moisture(21)	1495 (Ice), 1496 (Ice) (3)	011	06/02/2015 11:20	
WO-002-002-06-51	F9M44	Soil/ START	Composite	PEST+ARO(21), CLP Moisture(21)	1545 (Ice), 1546 (Ice) (3)	002	06/02/2015 16:30	
WO-002-004-06-51	F9M45	Soil/ START	Composite	PEST+ARO(21), CLP Moisture(21)	1550 (Ice), 1551 (Ice) (3)	002	06/02/2015 16:45	

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

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
4/samples	Weston	6/2/15 2100	FedEx	6/2/15 2100	
	FedEx	6/3/2015 10:07	Meredith Edwards DHPA	6/3/2015 10:07	good

F9M21

USEPA CLP COC (LAB COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737121790

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #:

No: 6-060215-152803-0075
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-011-002-06-51	F9M21	Soil/ START	Composite	SVOA/SVOASIM(21)	1429 (Ice) (2)	011	06/02/2015 08:15	
WO-011-002-12-51	F9M22	Soil/ START	Composite	SVOA/SVOASIM(21)	1434 (Ice) (2)	011	06/02/2015 08:20	
WO-011-002-24-51	F9M23	Soil/ START	Composite	SVOA/SVOASIM(21)	1439 (Ice) (2)	011	06/02/2015 08:25	
WO-011-004-06-51	F9M31	Soil/ START	Composite	SVOA/SVOASIM(21)	1479 (Ice) (2)	011	06/02/2015 09:50	
WO-011-004-12-51	F9M32	Soil/ START	Composite	SVOA/SVOASIM(21)	1484 (Ice) (2)	011	06/02/2015 09:55	
WO-011-004-24-51	F9M33	Soil/ START	Composite	SVOA/SVOASIM(21)	1489 (Ice) (2)	011	06/02/2015 10:00	
WO-002-002-00-51	F9M36	Soil/ START	Composite	SVOA/SVOASIM(21)	1504 (Ice) (2)	002	06/02/2015 11:45	

Received F9M24 6/4/2015

Special Instructions: No lab QC for SVOA/SVOASIM 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	6/2/15 @ 2100	FedEx	6/2/15 @ 2100	
	FedEx	6/3/2015 10:07	Meredith Edwards DATA	6/3/2015 10:07	good

ALS

USEPA CLP COC (LAB COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737001074

CHAIN OF CUSTODY RECORD

F9M21

Case #: 45316
Cooler #:

No: 6-060215-185026-0034
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-011-003-24-51	F9M30	Soil/ START	Composite	SVOA/SVOASIM(21)	1474 (Ice) (2)	011	06/02/2015 09:20	
WO-002-001-00-51	F9M34	Soil/ START	Composite	SVOA/SVOASIM(21)	1494 (Ice) (2)	011	06/02/2015 11:20	
WO-002-002-06-51	F9M44	Soil/ START	Composite	SVOA/SVOASIM(21)	1544 (Ice) (2)	002	06/02/2015 16:30	
WO-002-004-06-51	F9M45	Soil/ START	Composite	SVOA/SVOASIM(21)	1549 (Ice) (2)	002	06/02/2015 16:45	

ALS 6/3/2015

Special Instructions: No Lab QC on SVIA/SVOASIM 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
4/samples	Weston	6/2/15 2100	Fedex	6/2/15 2100	
	FedEx	6/3/2015 10:07	Meredith Edwards DATAC	6/3/2015 10:07	good

USEPA CLP COC (LAB COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737027052

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #:

F9M21

No: 6-060215-175849-0081
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-011-003-06-51	F9M28	Soil/ START	Composite	SVOA/SVOASIM(21)	1464 (Ice) (2)	011	06/02/2015 09:10	
WO-011-003-12-51	F9M29	Soil/ START	Composite	SVOA/SVOASIM(21)	1469 (Ice) (2)	011	06/02/2015 09:15	
WO-002-003-00-51	F9M37	Soil/ START	Composite	SVOA/SVOASIM(21)	1509 (Ice) (2)	002	06/02/2015 13:30	
WO-002-003-06-51	F9M40	Soil/ START	Composite	SVOA/SVOASIM(21)	1524 (Ice) (2)	002	06/02/2015 13:40	
WO-002-003-12-51	F9M41	Soil/ START	Composite	SVOA/SVOASIM(21)	1529 (Ice) (2)	002	06/02/2015 13:45	
WO-002-001-06-51	F9M42	Soil/ START	Composite	SVOA/SVOASIM(21)	1534 (Ice) (2)	002	06/02/2015 14:30	
WO-002-001-12-51	F9M43	Soil/ START	Composite	SVOA/SVOASIM(21)	1539 (Ice) (2)	002	06/02/2015 14:35	

Special Instructions: No Lab QC on SVOA/SVOASIM 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	6/2/15 @ 2160	FedEx	6/2/15 @ 2100	
	FedEx	6/3/2015 10:07	Meredith Edwards DATAC	6/3/2015 10:07	good

USEPA CLP COC (LAB COPY)
DateShipped: 6/2/2015
CarrierName: FedEx
AirbillNo: 773737090477

CHAIN OF CUSTODY RECORD F9M21

Case #: 45316
Cooler #:

No: 6-060215-161253-0077
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-011-002-24-51	F9M23	Soil/ START	Composite	SVOA/SVOASIM(21)	1439 (Ice) (2)	011	06/02/2015 08:25	
WO-011-001-06-51	F9M25	Soil/ START	Composite	SVOA/SVOASIM(21)	1449 (Ice) (2)	011	06/02/2015 08:55	
WO-011-001-12-51	F9M26	Soil/ START	Composite	SVOA/SVOASIM(21)	1454 (Ice) (2)	011	06/02/2015 09:00	
WO-011-001-24-51	F9M27	Soil/ START	Composite	SVOA/SVOASIM(21)	1459 (Ice) (2)	011	06/02/2015 09:05	
WO-002-001-00-52	F9M35	Soil/ START	Composite	SVOA/SVOASIM(21)	1499 (Ice) (2)	002	06/02/2015 11:25	
WO-002-004-00-51	F9M38	Soil/ START	Composite	SVOA/SVOASIM(21)	1514 (Ice) (2)	002	06/02/2015 13:05	
WO-002-004-00-52	F9M39	Soil/ START	Composite	SVOA/SVOASIM(21)	1519 (Ice) (2)	002	06/02/2015 13:10	

Special Instructions: No Lab QC SVOA/SVOASIM

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	Wagstaff	6/2/15 2100	FedEx	6/2/15 2100	
	FedEx	6/3/2015 10:07	DATA	6/3/2015 10:07	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 2
Received By (Print Name): Meredith Edwards	Log-In Date: 6/3/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: FAM21
	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.	773737015572 / 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	4.
10. Does information on TR/COCs, and sample tags agree?	Yes/No*
11. Date Received at Laboratory	6/3/2015
12. Time Received	10:07

Sample Transfer

Fraction: VOA	Fraction:
Area #: Storage 3	Area #: 6/3/2015
By: MR	By:
On: 6/3/2015	On:

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
FAM21	n/a	151557420001	VOA 801
22		002	
23		003	
24		004	
25		005	
26		006	
27		007	
28		010	
29		011	
30		012	
31		013	
32		014	
33		015	
34		016	
35		017	
36			
37		018	
38		019	
39		020	
40		021	
41		022	
42			

* Contact SMO and attach record of resolution

Reviewed By: Johanne Olsa	Logbook No.: Not Applicable
Date: 6/4/15	Logbook Page No.: Not Applicable

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 2 of 2
Received By (Print Name): Meredith Edwards	Log-In Date: 6/3/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: FQM24
	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*	FQM43	n/a		VOA Soil
	Intact/Broken*	44			
2. Custody Seal Nos.	n/a	45			
		46			VOA Water
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*				
4. Airbill	Airbill/Sticker Present/Absent*				
5. Airbill No.	773737405812				
	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	4°				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	6/3/2015				
12. Time Received	10:07				
Sample Transfer					
Fraction: VOA-S	Fraction: VOA-W				
Area #: Storage 3	Area #: Storage				
By: MR	By: MR				
On: 6/3/2015	On: 6/3/2015				

MR 6/3/2015

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 6/3/15	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): Meredith Edwards	Log-In Date: 6/3/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: F9M21
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*	F9M21	n/a	1515542001	% Moisture Soil
	Intact/Broken*	22		002	
2. Custody Seal Nos.	n/a	23		003	
	1	24		004	
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	25		005	
4. Airbill	Airbill/Sticker	26		006	
	Present/Absent*	27		007	
5. Airbill No.	773737006238	28		010	
	n/a	29		011	
6. Sample Tags	Present/Absent*	31		013	
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody	32		014	
7. Sample Condition	Intact/Broken*/Leaking*	33		015	
8. Cooler Temperature Indicator Bottle	Present/Absent*	35		017	
9. Cooler Temperature	4.	36			
10. Does information on TR/COCs, and sample tags agree?	Yes/No*	37		018	
11. Date Received at Laboratory	6/3/2015	38		019	
12. Time Received	10:07	39		020	
Sample Transfer		40		021	
Fraction: % Moisture	Fraction: ME 6/3/2015	41		022	
Area #: R.33.1	Area #:	42			
By: ME	By:	43			
On: 6/3/2015	On:			ME 6/3/2015	

* Contact SMO and attach record of resolution

Reviewed By: Roxanne Olsen	Logbook No.: Not Applicable
Date: 6/4/15	Logbook Page No.: Not Applicable

SOM01.2 (6/2014)

: 01481

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Meredith Edwards	Log-In Date: 6/3/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: FQM21
	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*	FQM23	n/a	15153412003	PEST / APD soil
		25		005	
2. Custody Seal Nos.	n/a / 1	26		006	
		27		007, 008, 009	MS/MSD
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	35		017	
4. Airbill	Airbill/Sticker Present/Absent*	38		019	
		39		020	
5. Airbill No.	771373708848 / 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	4°				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	6/3/2015				
12. Time Received	10:07				

n/a 6/3/2015

Sample Transfer					
Fraction	PEST/APD	Fraction			
Area #	R. 3m.1	Area #	n/a 6/3/2015		
By	MW	By			
On	6/3/2015	On			

* Contact SMO and attach record of resolution

Reviewed By: Johanne Allen	Logbook No.: Not Applicable
Date: 6/4/15	Logbook Page No.: Not Applicable

94152

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Meredith Edwards	Log-In Date: 6/3/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: F9M21
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*	F9M28	n/a	151554 2010	PEST/ARO Soil
	Intact/Broken*	29		071	
2. Custody Seal Nos.	n/a	37		018	
	1	40		021	
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	41		022	
4. Airbill	Airbill/Sticker	42			
	Present/Absent*	43			
5. Airbill No.	773737036285				
	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	4°				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	6/3/2015				
12. Time Received	10:07				

NE 6/3/2015

Sample Transfer	
Fraction: PEST/ARO	Fraction: NE
Area #: R-33.1	Area #: 6/3/2015
By: NE	By:
On: 6/3/2015	On:

* Contact SMO and attach record of resolution

Reviewed By: Roxanne Ola	Logbook No.: Not Applicable
Date: 6/4/15	Logbook Page No.: Not Applicable

SOM01.2 (6/2014)

: 01483

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Meredith Edwards	Log-In Date: 6/3/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: F9M21
	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*	F9M21	n/a	15154200	PEST/ARO Soil
		22		002	
2. Custody Seal Nos.	n/a	24		004	
	1	31		013	
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	32		014	
4. Airbill	Airbill/Sticker Present/Absent*	33		015	
		36			
5. Airbill No.	7137371089995				
	n/a				
6. Sample Tags	Present/Absent*				
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
7. Sample Condition	Intact/Broken*/Leaking*		n/a 6/3/2015		
8. Cooler Temperature Indicator Bottle	Present/Absent*				
9. Cooler Temperature	4				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	6/3/2015				
12. Time Received	10:07				

Sample Transfer					
Fraction: PEST/ARO	Fraction: n/a 6/3/2015				
Area #: R.Bay.1	Area #:				
By: MR	By:				
On: 6/3/2015	On:				

* Contact SMO and attach record of resolution

Reviewed By: Tatiana Alsa	Logbook No.: Not Applicable
Date: 6/4/15	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): Meredith Edwards	Log-In Date: 6/3/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: F9M21
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*	F9M30	n/a	1515542012	PEST/ARO/OC moist soil
	Intact/Broken*	34		1 016	
2. Custody Seal Nos.	n/a	44			
	1	45			
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*				
4. Airbill	Airbill/Sticker				
	Present/Absent*				
5. Airbill No.	7737 3264 0238				
	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	4				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	6/3/2015				
12. Time Received	10:07				

Sample Transfer	
Fraction: PEST/ARO/OC moist	Fraction:
Area #: R-33.1	Area #:
By: [signature]	By: [signature]
On: 6/3/2015	On:

[signature] 6/3/2015

* Contact SMO and attach record of resolution

Reviewed By: Joanne Alba	Logbook No.: Not Applicable
Date: 6/4/15	Logbook Page No.: Not Applicable

SOM01.2 (6/2014)

: 01485

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Meredith Edwards	Log-In Date: 6/3/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: FM21
	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*	FM21	n/a	1515342-001	SVOA/SVOA soil
		22		002	
2. Custody Seal Nos.	n/a	24		004	
	1	31		013	
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	32		014	
4. Airbill	Airbill/Sticker Present/Absent*	33		015	
		36			
5. Airbill No.	772731121790				
	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	4.				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	6/3/2015				
12. Time Received	10:07				

MZ 6/3/2015

Sample Transfer					
Fraction	SVOA/SVOA	Fraction			
Area #	Rm. 1	Area #			
By	MZ	By			
On	6/3/2015	On			

MZ 6/3/2015

* Contact SMO and attach record of resolution

Reviewed By: Johanna Cuba	Logbook No.: Not Applicable
Date: 6/4/15	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): Meredith Edwards			Log-In Date: 6/3/2015
Received By (Signature): Meredith Edwards			
Case Number: 45316	Sample Delivery Group No.: F9M21		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*	F9M30	N/A	1515542 012	SVOA/SVSVM Soil
	Intact/Broken*	34		016	
2. Custody Seal Nos.	N/A	44			
	1	45			
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*				
4. Airbill	Airbill/Sticker				
	Present/Absent*				
5. Airbill No.	7737 3700 1074				
	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	4				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	6/3/2015				
12. Time Received	10:07				

Sample Transfer					
Fraction: SVOA/SVSVM	Fraction:				
Area #: R331	Area #:				
By: ME	By:				
On: 6/3/2015	On:				

ME 6/3/2015

* Contact SMO and attach record of resolution

Reviewed By: Roxanne Alba	Logbook No.: Not Applicable
Date: 6/4/15	Logbook Page No.: Not Applicable

SOM01.2 (6/2014)

: 01487

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Meredith Edwards	Log-In Date: 6/3/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: F9M21
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*	F9M28	n/a	1575542010	SVOA/SVSIM Soil
	Intact/Broken*	29		011	
2. Custody Seal Nos.	n/a	37		018	
		40		021	
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	41		022	
4. Airbill	Airbill/Sticker	42			
	Present/Absent*	43			
5. Airbill No.	773737027052				
	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	4				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	6/3/2015				
12. Time Received	10:07				

Sample Transfer

Fraction: SVOA/SVSIM	Fraction:				
Area #: R33.1	Area #:				
By: ME	By:				
On: 6/3/2015	On:				

ME 6/3/2015

* Contact SMO and attach record of resolution

Reviewed By: Johanne Ola	Logbook No.: Not Applicable
Date: 6/4/15	Logbook Page No.: Not Applicable

: 01488

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group			Page 1 of 1
Received By (Print Name): Meredith Edwards			Log-In Date: 6/3/2015
Received By (Signature): Meredith Edwards			
Case Number: 45316	Sample Delivery Group No.: FAM21		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*	FAM23	n/a	151554 2003	SVOA/SVOA Soil
	25		005	
2. Custody Seal Nos. n/a	26		006	
	27		007	
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists Present/Absent*	35		017	
4. Airbill Airbill/Sticker Present/Absent*	38		019	
	39		020	
5. Airbill No. 773787070477				
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: 4°				
10. Does information on TR/COCs, and sample tags agree? Yes/No*				
11. Date Received at Laboratory: 6/3/2015				
12. Time Received: 10:07				
Sample Transfer				
Fraction: SVOA/SVOA				
Area #: P231				
By: ME				
On: 6/3/2015				

ME 6/3/2015

Fraction	
Area #	6/3/2015
By	
On	

* Contact SMO and attach record of resolution

Reviewed By: Roxanne Conrad	Logbook No.: Not Applicable
Date: 6/4/15	Logbook Page No.: Not Applicable

EPA-CLP CHECKING DOCUMENTATION FORM FOR GC/MS ORGANICS ANALYSIS

Case 45316 SDG F9M21 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 [signature] Date 6.22.15

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 [signature] Date 6.22.15

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. Mason Date 6.23.15

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 Thomas J. Mason Date 6.23.15

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, Airbills, etc.) are also included.

Signature Desiree Hill Date 06/23/2015

EPA-CLP CHECKING DOCUMENTATION FORM FOR GC/MS ORGANICS ANALYSIS

Case 45316 SDG F9M21 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 6/18/15

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 6/18/15

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 6.18.15

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 6.18.15

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 06/23/2015

EPA-CLP CHECKING DOCUMENTATION FORM

Case 45316 SDG F9M21 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 06/21/15

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 06/21/15

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 06/22/15

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 06/22/15

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 Hill Date 06/23/2015

EPA-CLP CHECKING DOCUMENTATION FORM

Case 45816 SDG F9M21 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 06/17/15

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 06/17/15

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 06/21/15

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 06/21/15

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 Hill Date 06/23/2015

Roxanne Olson

From: Margaret T Jarosz <mjarosz@csc.com>
Sent: Thursday, June 04, 2015 3:29 PM
To: Roxanne Olson
Cc: Humphrey.marvelyn@Epa.gov; Gorostiza.Sylvia@epa.gov; Perez, Myra; Flores, Raymond
Subject: Region 06 | Case 45316 | Lab DATAC | Issue Discrepancies with tags, jars, and/or COC | FINAL

Roxy,

Issue: The CLP ID for SVOA/SVSIM soil sample F9M23 was listed on two different COCs. The COC ending in-0075 didn't have that sample in the cooler. The laboratory received sample F9M24 for SV/SVSIM. The COC ending in -0077 is the correct cooler that the laboratory received F9M23 on. The laboratory will need a updated COC that includes F9M24 for this analysis. It is listed on all of the other COCs for PEST/PCB/VOA/% Moist so the lab knows it is a valid sample ID.
Resolution: Per Region 6, the laboratory will note the discrepancy in the SDG Narrative and proceed with analysis unless they are missing time and date of collection, and/or station location information. If the laboratory is missing container information, they should notify CSC ASAP.

Please let me know if you have any questions. To waive any defect(s) associated with this issue, please contact your Regional CLP COR.

Thanks,
MARGARET T. JAROSZ
Environmental Coordinator-Regions 1, 4, 6, 7, ORD, GLNPO, and ASB (QB/PE)
CSC

6361 Walker Lane Alexandria, VA 22310
Civil Division | mjarosz@csc.com | www.csc.com

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----- Forwarded by Margaret T Jarosz/USA/CSC on 06/04/2015 05:27 PM -----

From: "Perez, Myra" <perez.myra@epa.gov>
To: Margaret T Jarosz/USA/CSC@CSC
Cc: "Humphrey, Marvelyn" <humphrey.marvelyn@epa.gov>, "Gorostiza, Sylvia" <Gorostiza.Sylvia@epa.gov>, "Flores, Raymond" <flores.raymond@epa.gov>
Date: 06/04/2015 05:06 PM
Subject: RE: Region 06 | Case 45316 | Lab DATAC | Issue Discrepancies with tags, jars, and/or COC - R6 response

---

Margaret – Please notify the lab to note the discrepancy in the SDG narrative and proceed with analysis unless they are missing time & date of collection, and/or station location information. The sampler will submit a-memo-to-file once they have completed the sampling. If the lab is missing container information, they should notify SMO ASAP.

Thank you.

Myra Perez
R6 CLP RSCC
281-983-2130

From: Margaret T Jarosz [mailto:mjarosz@csc.com]

Sent: Wednesday, June 03, 2015 3:41 PM
To: Humphrey, Marvelyn; Gorostiza, Sylvia; Perez, Myra; Flores, Raymond
Subject: Region 06 | Case 45316 | Lab DATAC | Issue Discrepancies with tags, jars, and/or COC

Good afternoon,
DATAC is reporting the following issue with Case 45316. Please advise.

Issue: The CLP ID for SVOA/SVSIM soil sample F9M23 was listed on two different COCs. The COC ending in-0075 didn't have that sample in the cooler. The laboratory received sample F9M24 for SV/SVSIM. The COC ending in -0077 is the correct cooler that the laboratory received F9M23 on. The laboratory will need a updated COC that includes F9M24 for this analysis. It is listed on all of the other COCs for PEST/PCB/VOA/% Moist so the lab knows it is a valid sample ID.

Thanks,
MARGARET T. JAROSZ
Environmental Coordinator-Regions 1, 4, 6, 7, ORD, GLNPO, and ASB (QB/PE)
CSC

6361 Walker Lane Alexandria, VA 22310
Civil Division | mjarosz@csc.com | www.csc.com

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----- Forwarded by Margaret T Jarosz/USA/CSC on 06/03/2015 04:37 PM -----

From: Roxanne Olson <Roxanne.Olson@ALSGlobal.com>
To: Margaret T Jarosz/USA/CSC@CSC
Date: 06/03/2015 03:12 PM
Subject: FW: Organic Case 45316

Please see Mere's comments below.

Roxanne Olson

Client Services Manager/Project Manager
ALS Life Sciences Division | Environmental

From: Meredith D. Edwards
Sent: Wednesday, June 03, 2015 11:41 AM
To: Roxanne Olson
Cc: Jessica Helland
Subject: Organic Case 45316

Please advise Region 6 that CLP ID for SVOA/SVSIM soil sample F9M23 was listed on two different TR's. The TR ending in-0075 didn't have that sample in the cooler. I received F9M24 for SV/SVSIM. The TR ending in -0077 is the correct cooler that I received F9M23 on. I will need a updated TR that includes F9M24 for this analysis. It is listed on all of the other TR's for PEST/PCB/VOA/% Moist so I know it is a valid sample ID.
Thanks
Mere

: 04195

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