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.:	F9L58
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	5	✓	
3. **SDG Cover Sheet/Traffic Report**	n/a		✓	
4. **Trace Volatiles Data**				
a. QC Summary				
Deuterated Monitoring Compound Recovery (Form II VOA-1 and VOA-2)			✓	
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			✓	

07/17/2015 DH

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ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2

CASE NO.	45316	SDG NO.:	F9L58
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)			✓	
[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)			✓	
Matrix Spike/Matrix Spike Duplicate Recovery (Form III VOA-1, VOA-2)(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)			✓	
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)				
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			✓	

07/17/2015 DA

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9L58
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)	6	7	✓	
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)	8	8	✓	
GC/MS Instrument Performance Check (Form V SV)	9	12	✓	
Internal Standard Area and RT Summary (Form VIII SV-1 and SV-2)	13	20	✓	
b. Sample Data	21	547		
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)	548	633		
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	632	645	✓	
Blank Data	646	661	✓	
MS/MSD Data (if requested by USEPA Region)	n/a		✓	
e. Raw GPC Data	662	664	✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9L58
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.]	6605	8866	✓	
7. Pesticides Data				
a. QC Summary				
Surrogate Recovery Summary (Form II PEST-1 and PEST-2)	n/a		✓	
Matrix Spike/Matrix Spike Duplicate Recovery Summary (Form III PEST-1 and PEST-2)			✓	
Laboratory Control Sample Recovery (Form III Pest-3 and PEST-4)			✓	
Method Blank Summary (Form IV PEST)			✓	
b. Sample Data				
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				
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)			✓	

01/17/2008

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG No	F9L58
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK 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	n/a		✓	
Matrix Spike/Matrix Spike Duplicate Data			✓	
Laboratory Control Sample Data			✓	
e. Raw GPC Data			✓	
f. Raw Florisil Data			✓	
8. **Aroclor Data**				
a. QC Summary				
Surrogate Recovery Summary (Form II ARO-1 and ARO-2)			✓	
Matrix Spike/Matrix Spike Duplicate Summary (Form III ARO-1 and ARO-2)			✓	
Laboratory Control Sample Recovery (Form III ARO-3 and ARO-4)			✓	
Method Blank Summary (Form IV ARO)			✓	
b. Sample Data				
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)			✓	

07/17/2015 DH

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

CASE NO.	45316	SDG NO.:	F9L58
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
c. Standards Data	n/a			
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			✓	
Matrix Spike/Matrix Spike Duplicate Data			✓	
Laboratory Control Sample (LCS) Data			✓	
e. Raw GPC Data (if performed)			✓	
9. Miscellaneous Data				
Original preparation and analysis forms or copies of preparation and analysis logbook pages	887	893	✓	
Internal sample and sample extract transfer chain-of-custody records	n/a		✓	
Screening records			✓	
All instrument output, including strip charts from screening activities (describe or list)				
Method Check/QC Reports/LCS			✓	
Percent Solids Determinations			✓	
10. EPA Shipping/Receiving Documents				
Airbills (no. of shipments _____)			✓	
Chain of Custody Records (Copies)			✓	
Sample Tags	894	894	✓	
Sample Log-in Sheet (Lab & DC-1)	n/a		✓	
Miscellaneous Shipping/Receiving Records (describe or list)				
DCL Cooler Receipt Checklist	NA		✓	
DCL Sample Work Orders	NA		✓	

07/17/2015

07/17/2015

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9L58
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	895	895	✓	
DCL Non-conformance/Corrective Action Reports	NA		✓	
12. **Other Records** (describe or list)				
Telephone Communication Log	NA		✓	
E-mail Communications	n/a		✓	
			✓	

13. **Comments**

n/a

Completed by: (CLP Lab) Desiree Hill (Signature) Desiree Hill/DCO (Printed Name/Title) 7/17/15 (Date)

Verified by: (CLP Lab) Roxanne Olson (Signature) Roxanne Olson/Manager (Printed Name/Title) 7/17/15 (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: F9L58

WO No(s):

Cooler # and Temperatures of each (upon receipt)

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

07/17/2015
DH

Communications:

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

Comments:

None

Signature: Desiree Hill
Document Control Officer

Date: 07/17/2015

SDG Narrative
Semivolatiles Fraction

Contract: EPW11037
Case: 45316
SDG: F9L58
Laboratory Name: ALS Environmental

Sample Number	DCL Sample ID	Dilution	Fraction
F9L58	1514293001		SVOA
F9L59	1514293002		SVOA
F9L60	1514293003		SVOA
F9L61	1514293004		SVOA
F9L62	1514293005		SVOA
F9L63	1514293006		SVOA
F9L64	1514293007		SVOA
F9L65	1514293008		SVOA
F9L66	1514293009		SVOA
F9L67	1514293012		SVOA
F9L68	1514293013		SVOA
F9L69	1514293014		SVOA
F9L70	1514293015		SVOA
F9L71	1514293016		SVOA
F9L72	1514293017		SVOA
F9L73	1514293018		SVOA
F9L75	1514293019		SVOA
F9L77	1514293020		SVOA
F9L78	1514293021		SVOA
F9L79	1514293022		SVOA
F9L58	1514293001	30	SVOA-SIM
F9L59	1514293002		SVOA-SIM
F9L60	1514293003		SVOA-SIM
F9L61	1514293004		SVOA-SIM
F9L62	1514293005		SVOA-SIM
F9L63	1514293006		SVOA-SIM
F9L64	1514293007		SVOA-SIM
F9L65	1514293008		SVOA-SIM
F9L66	1514293009		SVOA-SIM
F9L67	1514293012		SVOA-SIM
F9L68	1514293013		SVOA-SIM
F9L69	1514293014		SVOA-SIM
F9L70	1514293015		SVOA-SIM
F9L71	1514293016		SVOA-SIM
F9L72	1514293017		SVOA-SIM
F9L73	1514293018		SVOA-SIM
F9L75	1514293019		SVOA-SIM
F9L77	1514293020		SVOA-SIM
F9L78	1514293021		SVOA-SIM
F9L79	1514293022		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. As per EPA Region 6, selected samples were reanalyzed at lesser dilutions for full scan and SIM. Samples were reanalyzed out of holding time.

Instrumentation: Agilent GC/MS system (ID 5975-D and 5975-G)
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.

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. The compounds that the ending failed for are known problem analytes as noted with the advisory limits set forth in the new EPA SOW for ending calibration standards. Knowing that these analytes often fail and with the documentation of this problem in the new SOW, no reanalysis was performed. Sample color ranged from light brown to dark brown.

Blank Analysis: The extraction blank met method criteria.

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

MS/MSD Analysis: An MS/MSD analysis was not requested.

Dilutions: Any dilutions noted above were performed to preserve the integrity of the instrument or to bring the highest target compound within the range of the curve.

Miscellaneous Comments: Any 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 B Section 2.5.1 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: 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. 4-chloroaniline sometimes has the baseline drawn too high when the computer gets confused because of a near-eluting peak causing it to think the valley between peaks is actually the baseline. 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 dibenzo(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	
F9L58	Benzo(k)fluoranthene	2598	2607
SSTD040GX	Caprolactam	812	841
SSTD080GX	Caprolactam	814	850

For SIM analysis:

Sample	Analyte	Scan start-stop	
F9L58	Benzo(k)fluoranthene	2425	2440
F9L59	Pyrene	1686	1694
F9L59	Benzo(k)fluoranthene	2343	2353
F9L60	Benzo(k)fluoranthene	2425	2437
F9L62	Pyrene	1739	1750
F9L62	Benzo(k)fluoranthene	2424	2437
F9L63	Anthracene	1231	1241
F9L63	Pyrene	1684	1695
F9L63	Benzo(k)fluoranthene	2343	2354
F9L64	Anthracene	1288	1299
F9L64	Benzo(k)fluoranthene	2425	2436
F9L65	Pyrene	1739	1748
F9L65	Benzo(k)fluoranthene	2425	2437
F9L66	Pyrene	1739	1749
F9L66	Benzo(k)fluoranthene	2425	2436
F9L67	Pyrene	1684	1695
F9L67	Benzo(k)fluoranthene	2343	2354
F9L68	Anthracene	1288	1300
F9L68	Benzo(k)fluoranthene	2424	2436
F9L70	Pyrene	1684	1694
F9L70	Benzo(k)fluoranthene	2342	2353
F9L75	Pyrene	1740	1748
F9L78	Pyrene	1739	1748
F9L78	Benzo(k)fluoranthene	2424	2436

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.

July 17, 2015

Steven Yourstone
Chemist
Semivolatile Organic Analysis Section

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.: F9L58

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC1 (PHL) #	SDMC2 (BCE) #	SDMC3 (2CP) #	SDMC4 (4MP) #	SDMC5 (NBZ) #	SDMC6 (2NP) #	SDMC7 (DCP) #	SDMC8 (4CA) #
01	F9L58	63	53	58	28	60	62	63	3
02	F9L59	71	54	65	33	63	70	73	6
03	F9L60	70	50	65	45	63	69	72	11
04	F9L61	71	54	68	67	65	70	71	15
05	F9L62	75	58	72	61	73	76	78	14
06	F9L63	61	48	56	37	56	60	62	5
07	F9L64	62	47	60	55	58	64	66	24
08	F9L65	70	55	67	37	67	72	69	11
09	F9L66	67	52	64	44	63	71	67	9
10	F9L67	39	42	48	31	46	49	51	3
11	F9L68	52	44	53	42	53	54	54	10
12	F9L69	45	39	47	41	47	38	44	11
13	F9L70	49	39	46	36	46	46	51	2
14	F9L71	53	42	52	35	49	48	51	4
15	F9L72	70	58	68	46	70	45	64	1 *
16	F9L73	68	55	63	36	64	56	61	0 *
17	F9L75	77	63	73	43	77	55	69	4
18	F9L77	80	65	79	64	78	75	81	2
19	F9L78	76	64	72	39	77	80	74	9
20	F9L79	94	75	92	74	90	68	90	12
21	SBLK83	49	38	47	37	47	51	52	18
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.: F9L58

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	F9L58	75	68	70	75	45	66	73	64	0
02	F9L59	91	79	82	88	62	85	88	82	0
03	F9L60	87	74	82	83	62	82	85	83	0
04	F9L61	80	72	73	76	56	78	80	79	0
05	F9L62	92	82	89	89	58	90	91	92	0
06	F9L63	77	66	63	74	43	68	75	66	0
07	F9L64	77	63	67	71	44	71	73	68	0
08	F9L65	84	71	74	79	47	76	79	72	0
09	F9L66	82	69	74	78	55	77	79	74	0
10	F9L67	63	55	52	61	23	55	60	52	0
11	F9L68	65	57	52	62	16	60	62	59	0
12	F9L69	55	51	40	54	8	53	53	52	0
13	F9L70	60	55	47	60	13	54	58	53	0
14	F9L71	64	56	53	61	16	60	62	60	0
15	F9L72	84	73	62	81	6	75	80	75	1
16	F9L73	83	66	67	78	12	75	79	77	1
17	F9L75	92	81	66	89	9	84	87	81	0
18	F9L77	96	83	83	91	28	91	94	92	0
19	F9L78	94	81	83	88	49	84	86	76	0
20	F9L79	108	96	86	105	9	104 *	104	100	1
21	SBLK83	71	60	65	68	66	73	79	81	0
22										
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	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.: SBLK83

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab File ID: GBC02BLK Lab Sample ID: 448483

Instrument ID: 5975-G Date Extracted: 05/28/2015

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 06/02/2015

Level: (LOW/MED) LOW Time Analyzed: 12:10

Extraction: (Type) SONC GPC Cleanup: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	F9L58	1514293001	GCM06F01	07/06/2015
02	F9L59	1514293002	GCM07F02	07/06/2015
03	F9L60	1514293003	GBC07F03	06/02/2015
04	F9L61	1514293004	GBC08F04	06/02/2015
05	F9L62	1514293005	GBC09F05	06/02/2015
06	F9L63	1514293006	GCM08F06	07/06/2015
07	F9L64	1514293007	GBC11F07	06/02/2015
08	F9L65	1514293008	GBC12F08	06/02/2015
09	F9L66	1514293009	GBC13F09	06/02/2015
10	F9L67	1514293012	GCM09F12	07/06/2015
11	F9L68	1514293013	GBC15F13	06/02/2015
12	F9L69	1514293014	GBC16F14	06/02/2015
13	F9L70	1514293015	GCM10F15	07/06/2015
14	F9L71	1514293016	GBC18F16	06/02/2015
15	F9L72	1514293017	GBC19F17	06/02/2015
16	F9L73	1514293018	GBC23F18	06/03/2015
17	F9L75	1514293019	GBC24F19	06/03/2015
18	F9L77	1514293020	GBC25F20	06/03/2015
19	F9L78	1514293021	GBC26F21	06/03/2015
20	F9L79	1514293022	GBC27F22	06/03/2015
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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.: F9L58

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
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5B - FORM V SV
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.: DFTPPGC

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab File ID: GBC01S20 DFTPP Injection Date: 06/02/2015

Instrument ID: 5975-G DFTPP Injection Time: 11:34

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	32.2
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	37.6
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	50.2
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	24.6
365	Greater than 1.0% of mass 198	2.8
441	Present, but less than mass 443	13.0
442	50.0 - 100% of mass 198	83.3
443	15.0 - 24.0% of mass 442	16.4 (19.7) 2

1 - Value is %mass 69 2 - Value is %mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020GC	SSTD020GC	GBC01S20	06/02/2015	11:34
02	SBLK83	448483	GBC02BLK	06/02/2015	12:10
03	SSTD020C1	SSTD020C1	GBC04S20	06/02/2015	14:58
04	F9L60	1514293003	GBC07F03	06/02/2015	16:42
05	F9L61	1514293004	GBC08F04	06/02/2015	17:14
06	F9L62	1514293005	GBC09F05	06/02/2015	17:47
07	F9L64	1514293007	GBC11F07	06/02/2015	18:53
08	F9L65	1514293008	GBC12F08	06/02/2015	19:25
09	F9L66	1514293009	GBC13F09	06/02/2015	19:58
10	F9L68	1514293013	GBC15F13	06/02/2015	21:02
11	F9L69	1514293014	GBC16F14	06/02/2015	21:34
12	F9L71	1514293016	GBC18F16	06/02/2015	22:38
13	F9L72	1514293017	GBC19F17	06/02/2015	23:10
14	SSTD020C2	SSTD020C2	GBC21S20	06/03/2015	00:14
15	F9L73	1514293018	GBC23F18	06/03/2015	01:18
16	F9L75	1514293019	GBC24F19	06/03/2015	01:50
17	F9L77	1514293020	GBC25F20	06/03/2015	02:23
18	F9L78	1514293021	GBC26F21	06/03/2015	02:55
19	F9L79	1514293022	GBC27F22	06/03/2015	03:28
20	SSTD020C3	SSTD020C3	GBC28S20	06/03/2015	04:00
21					

5B - FORM V SV
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.

DFTPPGT

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab File ID: GBV01S20 DFTPP Injection Date: 06/20/2015

Instrument ID: 5975-G DFTPP Injection Time: 10:04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	60.6
68	Less than 2.0% of mass 69	0.6 (1.3) 1
69	Mass 69 relative abundance	47.2
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	46.8
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	18.8
365	Greater than 1.0% of mass 198	2.3
441	Present, but less than mass 443	8.7
442	50.0 - 100% of mass 198	56.9
443	15.0 - 24.0% of mass 442	10.8 (19.0) 2

1 - Value is %mass 69 2 - Value is %mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD005GV	SSTD005GV	GBV03S05	06/20/2015	11:10
02	SSTD010GV	SSTD010GV	GBV04S10	06/20/2015	11:43
03	SSTD020GV	SSTD020GV	GBV05S20	06/20/2015	12:16
04	SSTD040GV	SSTD040GV	GBV06S40	06/20/2015	12:49
05	SSTD080GV	SSTD080GV	GBV07S80	06/20/2015	13:22
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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.: F9L58

Lab File ID: GCM01S20 DFTPP Injection Date: 07/06/2015

Instrument ID: 5975-G DFTPP Injection Time: 14:39

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	64.2
68	Less than 2.0% of mass 69	0.6 (1.3) 1
69	Mass 69 relative abundance	47.5
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	47.1
197	Less than 2.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 60.0% of mass 198	18.7
365	Greater than 1.0% of mass 198	2.3
441	Present, but less than mass 443	9.2
442	50.0 - 100% of mass 198	60.5
443	15.0 - 24.0% of mass 442	11.5 (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	SSTD020GM	SSTD020GM	GCM01S20	07/06/2015	14:39
02	F9L58	1514293001	GCM06F01	07/06/2015	17:23
03	F9L59	1514293002	GCM07F02	07/06/2015	17:55
04	F9L63	1514293006	GCM08F06	07/06/2015	18:28
05	F9L67	1514293012	GCM09F12	07/06/2015	19:01
06	F9L70	1514293015	GCM10F15	07/06/2015	19:34
07	SSTD020M1	SSTD020M1	GCM13S20	07/06/2015	21:12
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8C - FORM VIII SV-1
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020C1 Date Analyzed: 06/02/2015

Lab File ID (Standard): GBC04S20 Time Analyzed: 14:58

Instrument ID: 5975-G

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	310136	4.96	1161951	6.37	671537	9.03
	UPPER LIMIT	620272	5.46	2323902	6.87	1343074	9.53
	LOWER LIMIT	155068	4.46	580976	5.87	335769	8.53
	EPA SAMPLE NO.						
01	F9L60	328988	4.96	1226452	6.37	689453	9.02
02	F9L61	304655	4.96	1158846	6.37	663786	9.02
03	F9L62	319396	4.96	1186210	6.37	669077	9.02
04	F9L64	314813	4.96	1170762	6.37	661575	9.02
05	F9L65	328805	4.96	1226154	6.37	690834	9.02
06	F9L66	321956	4.96	1199687	6.37	675851	9.02
07	F9L68	321428	4.96	1201504	6.37	676007	9.02
08	F9L69	310996	4.96	1164384	6.37	651969	9.02
09	F9L71	309722	4.96	1164808	6.37	659903	9.02
10	F9L72	277060	4.96	1032223	6.37	588610	9.02
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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.: F9L58

EPA Sample No.(SSTD020##): SSTD020C1 Date Analyzed: 06/02/2015

Lab File ID (Standard): GBC04S20 Time Analyzed: 14:58

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	1115547	11.66	1103221	15.84	1096059	18.26
UPPER LIMIT	2231094	12.16	2206442	16.34	2192118	18.76
LOWER LIMIT	557774	11.16	551611	15.34	548030	17.76
EPA SAMPLE NO.						
01 F9L60	1153612	11.65	1118716	15.83	1082617	18.26
02 F9L61	1104057	11.65	1079683	15.83	1058588	18.25
03 F9L62	1116593	11.65	1090273	15.83	1068524	18.25
04 F9L64	1094845	11.65	1058302	15.83	1017847	18.25
05 F9L65	1140326	11.65	1104377	15.83	1063528	18.25
06 F9L66	1118589	11.65	1081887	15.83	1033538	18.25
07 F9L68	1124912	11.65	1076772	15.83	1047215	18.25
08 F9L69	1082247	11.65	1060059	15.83	1055600	18.25
09 F9L71	1100453	11.65	1078723	15.83	1035981	18.24
10 F9L72	983824	11.65	957127	15.83	938384	18.24
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

8C - FORM VIII SV-1
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020C2 Date Analyzed: 06/03/2015

Lab File ID (Standard): GBC21S20 Time Analyzed: 00:14

Instrument ID: 5975-G

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	305210	4.96	1123320	6.37	659663	9.02
	UPPER LIMIT	610420	5.46	2246640	6.87	1319326	9.52
	LOWER LIMIT	152605	4.46	561660	5.87	329832	8.52
	EPA SAMPLE NO.						
01	F9L73	331253	4.96	1227440	6.37	685170	9.02
02	F9L75	289869	4.96	1083368	6.37	618008	9.02
03	F9L77	300493	4.96	1123955	6.37	635600	9.02
04	F9L78	308981	4.96	1156314	6.37	650171	9.02
05	F9L79	330634	4.96	1247750	6.37	695642	9.02
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

8D - FORM VIII SV-2
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

EPA Sample No.(SSTD020##): SSTD020C2 Date Analyzed: 06/03/2015

Lab File ID (Standard): GBC21S20 Time Analyzed: 00:14

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	1116275	11.65	1079085	15.83	1054672	18.25
	UPPER LIMIT	2232550	12.15	2158170	16.33	2109344	18.75
	LOWER LIMIT	558138	11.15	539543	15.33	527336	17.75
	EPA SAMPLE NO.						
01	F9L73	1130911	11.65	1115257	15.83	1071538	18.25
02	F9L75	1016948	11.65	982652	15.83	957185	18.24
03	F9L77	1044270	11.65	1013417	15.83	972138	18.25
04	F9L78	1081936	11.65	1053656	15.83	1021731	18.25
05	F9L79	1132568	11.65	1083754	15.83	1051770	18.25
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

8C - FORM VIII SV-1
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020GM Date Analyzed: 07/06/2015

Lab File ID (Standard): GCM01S20 Time Analyzed: 14:39

Instrument ID: 5975-G

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	330588	4.88	1246330	6.27	698318	8.89
	UPPER LIMIT	661176	5.38	2492660	6.77	1396636	9.39
	LOWER LIMIT	165294	4.38	623165	5.77	349159	8.39
	EPA SAMPLE NO.						
01	F9L58	292059	4.87	1123317	6.26	683735	8.89
02	F9L59	314791	4.87	1193583	6.26	730622	8.89
03	F9L63	385286	4.87	1425197	6.26	803442	8.89
04	F9L67	321208	4.87	1233275	6.26	707046	8.89
05	F9L70	318578	4.87	1185731	6.26	699962	8.89
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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.: F9L58

EPA Sample No.(SSTD020##): SSTD020GM Date Analyzed: 07/06/2015

Lab File ID (Standard): GCM01S20 Time Analyzed: 14:39

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	1125196	11.52	1090563	15.73	979072	18.07
	UPPER LIMIT	2250392	12.02	2181126	16.23	1958144	18.57
	LOWER LIMIT	562598	11.02	545282	15.23	489536	17.57
	EPA SAMPLE NO.						
01	F9L58	1186319	11.52	1155905	15.72	985268	18.07
02	F9L59	1246366	11.52	1251508	15.72	996787	18.07
03	F9L63	1324792	11.52	1274929	15.72	1050316	18.07
04	F9L67	1178437	11.52	1129696	15.72	896489	18.07
05	F9L70	1241039	11.52	1243932	15.72	993142	18.07
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.

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.: F9L58

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020GC Date Analyzed: 06/02/2015

Lab File ID (Standard): GBC01S20 Time Analyzed: 11:34

Instrument ID: 5975-G

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	325019	4.96	1226959	6.37	708728	9.03
	UPPER LIMIT	650038	5.46	2453918	6.87	1417456	9.53
	LOWER LIMIT	162510	4.46	613480	5.87	354364	8.53
	EPA SAMPLE NO.						
01	SBLK83	325023	4.96	1208964	6.37	697110	9.02
02							
03							
04							
05							
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.: F9L58

EPA Sample No.(SSTD020##): SSTD020GC Date Analyzed: 06/02/2015

Lab File ID (Standard): GBC01S20 Time Analyzed: 11:34

Instrument ID: 5975-G GC Column: DB5MS ID: 0.32 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1189423	11.66	1129462	15.84	1100778	18.26
	UPPER LIMIT	2378846	12.16	2258924	16.34	2201556	18.76
	LOWER LIMIT	594712	11.16	564731	15.34	550389	17.76
	EPA SAMPLE NO.						
01	SBLK83	1158053	11.65	1119440	15.83	1104777	18.26
02							
03							
04							
05							
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.

F9L58

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293001

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCM06F01

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/06/2015

GPC Cleanup: (Y/N) Y pH: 6.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	400	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	400	U
83-32-9	Acenaphthene	40.	J

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L58

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293001

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCM06F01

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/06/2015

GPC Cleanup: (Y/N) Y pH: 6.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	400	U
100-02-7	4-Nitrophenol	400	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	26.	J
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	500	
120-12-7	Anthracene	83.	J
86-74-8	Carbazole	71.	J
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	730	
129-00-0	Pyrene	570	
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	250	
218-01-9	Chrysene	260	
117-81-7	Bis(2-ethylhexyl)phthalate	59.	J
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	240	
207-08-9	Benzo(k)fluoranthene	85.	J
50-32-8	Benzo(a)pyrene	150	J
193-39-5	Indeno(1,2,3-cd)pyrene	96.	J
53-70-3	Dibenzo(a,h)anthracene	25.	J
191-24-2	Benzo(g,h,i)perylene	62.	J
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: F9L58

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293001
Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCM06F01
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 17. Decanted: (Y/N) N Date Received: 05/22/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/06/2015
GPC Cleanup: (Y/N) Y pH: 6.5 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 3-Buten-2-one, 3-methyl-	2.20	100	J
02		Unknown Methacrylamide	2.81	170	J
03		Unknown 2-Pentanone, 4-hydroxy-	3.30	170	J
04		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.50	6100	J
05		Unknown 1H-Pyrrole-2,5-dione	4.27	440	J
06		Unknown 2-Pentanone	4.59	250	J
07		Unknown 2,3-Butanedione	4.77	110	J
08		Unknown 2H-Pyran-2-one, tetrahydro-6-pentyl-	4.99	97.	J
09		Unknown Butanoic acid, 2-butoxy-1-methyl-2-oxoet	9.66	84.	J
10	1731-88-0	Tridecanoic acid, methyl ester	11.31	130	JN
11	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	12.25	120	JN
12	1000336-35-5	Methyl 11-hexadecenoate	12.32	91.	JN
13	5129-60-2	Pentadecanoic acid, 14-methyl-, methyl ester	12.40	200	JN
14	2531-84-2	Phenanthrene, 2-methyl-	12.50	81.	JN
15		Unknown Phenanthrene, 4-methyl-	12.65	160	J
16		Unknown Undecanamide, 11-bromo-	12.77	97.	J
17		Unknown 1(2H)-Dibenzofuranone, 3,4-dihydro-8-met	13.00	100	J
18	112-63-0	9,12-Octadecadienoic acid (Z,Z)-, methyl ester	13.64	84.	JN
19	13481-95-3	10-Octadecenoic acid, methyl ester	13.68	120	JN
20	1120-16-7	Dodecanamide	14.15	260	JN
21	301-02-0	9-Octadecenamide, (Z)-	15.07	1600	JNB
22		Unknown Tetradecanamide	15.86	100	J
23		Unknown Cyclohexanecarboxamide	16.20	150	J
24		Unknown 9-Octadecenamide, (Z)-	16.98	310	J
25		Unknown Phthalic acid, monoethyl ester	18.61	310	J
26		Unknown Propanoic acid, 2,2-dimethyl-, cyclohexy	19.42	1100	J
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	1400	J

[2] EPA-designated Registry Number.

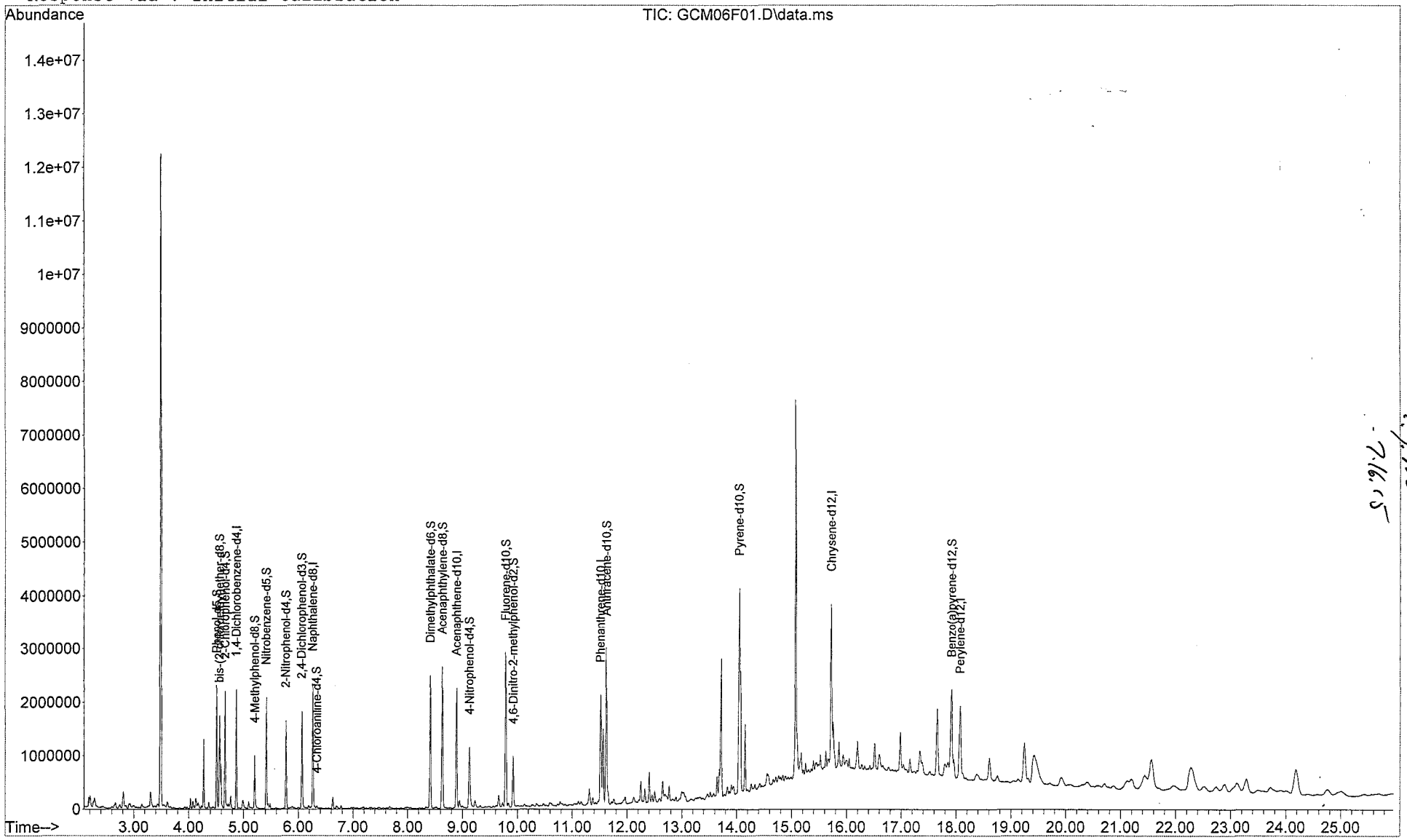
Quantitation Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D
Acq On : 07/06/2015 17:23
Sample : 1514293001 F9L58
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 13
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 15 14:12:09 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 15 14:12:09 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	292059	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1123317	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	683735	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1186319	20.00 ug/ml
73) Chrysene-d12	15.72	240	1155905	20.00 ug/ml
81) Perylene-d12	18.07	264	985268	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	644921	25.375ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	420467	21.229ug/mL
7) 2-Chlorophenol-d4	4.66	132	500472	23.322ug/ml
13) 4-Methylphenol-d8	5.20	113	193484	11.382ug/mL
17) Nitrobenzene-d5	5.42	128	235383	23.853ug/ml
21) 2-Nitrophenol-d4	5.77	143	257289	24.667ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	411860	25.358ug/mL
28) 4-Chloroaniline-d4	6.33	131	17987	1.015ug/mL
42) Dimethylphthalate-d6	8.42	166	1294590	30.195ug/mL
45) Acenaphthylene-d8	8.63	160	1596401	27.399ug/mL
50) 4-Nitrophenol-d4	9.13	143	245224	28.036ug/mL
57) Fluorene-d10	9.79	176	1100810	30.065ug/mL
61) 4,6-Dinitro-2-methylphenol	9.92	200	151352	17.975ug/mL
69) Anthracene-d10	11.62	188	1655523	26.315ug/mL
75) Pyrene-d10	14.04	212	1685278	29.215ug/mL
86) Benzo(a)pyrene-d12	17.92	264	1211566	25.662ug/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

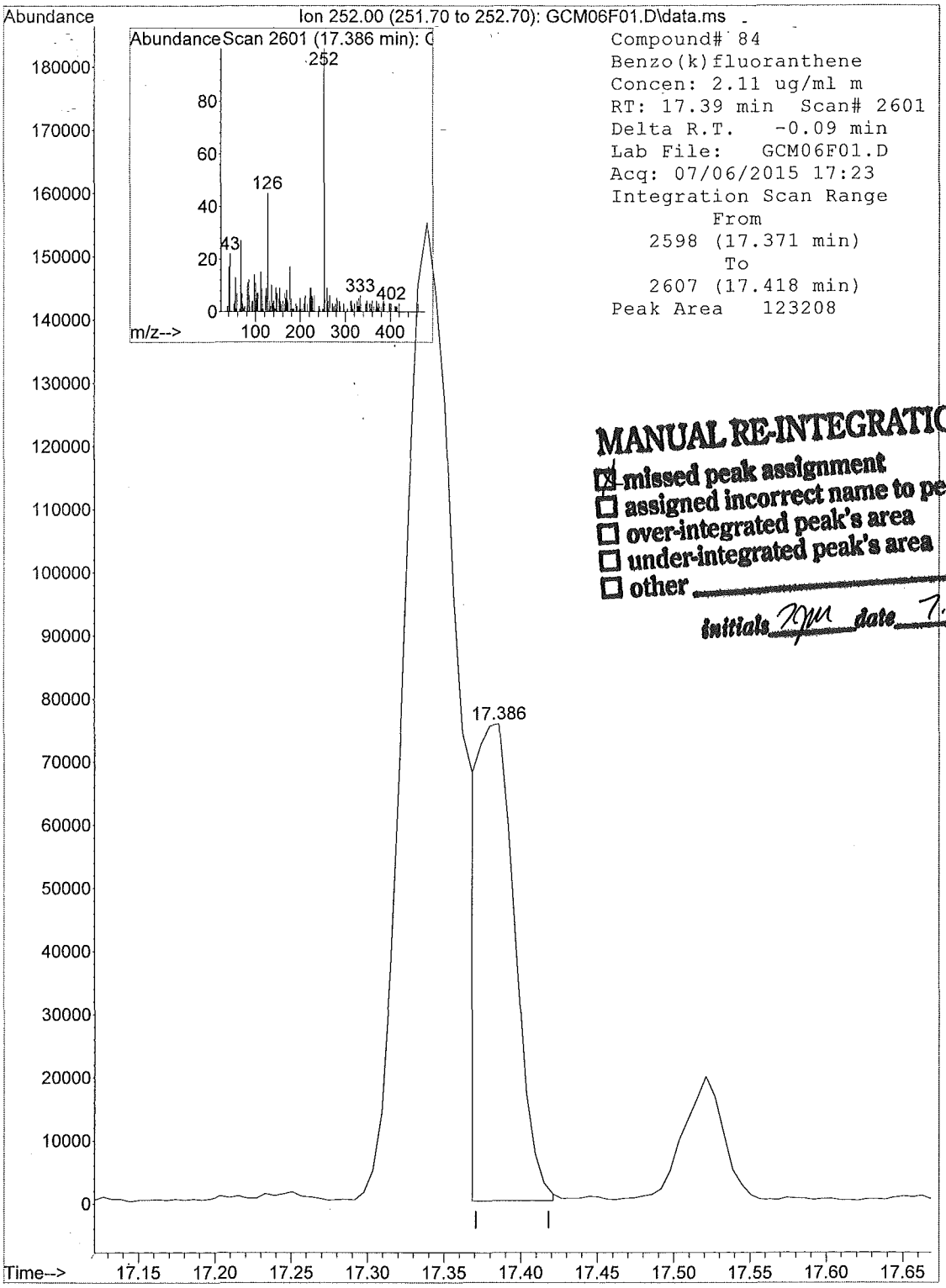
Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 15 14:12:09 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 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	8.95	153	37405	0.997ug/ml	93
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	9.83	166	26565	0.646ug/ml	98
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	11.56	178	788139	12.456ug/ml	99
68)	Anthracene	11.65	178	133594	2.069ug/ml	93
70)	Carbazole	11.96	167	78706	1.779ug/mL	95
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	13.72	202	1265460	18.150ug/ml	96
74)	Pyrene	14.07	202	1039070	14.122ug/ml	98
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	15.71	228	442206	6.306ug/ml	96
79)	Chrysene	15.76	228	408750	6.455ug/ml	96
80)	Bis-(2-ethylhexyl)phthalat	15.78	149	84009	1.470ug/ml	97
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	17.34	252	368471	5.971ug/ml	96
84)	Benzo(k)fluoranthene	17.39	252	123208	2.114ug/ml m 7gm	98 7.16.15
85)	Benzo(a)pyrene	17.96	252	217565	3.746ug/ml	97
87)	Indeno(1,2,3-c,d)pyrene	20.71	276	123456	2.404ug/ml	97
88)	Dibenzo(a,h)anthracene	20.78	278	31457	0.612ug/ml	92
89)	Benzo(g,h,i)perylene	21.51	276	78570	1.554ug/ml	87

(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 Benzo(k)fluoranthene

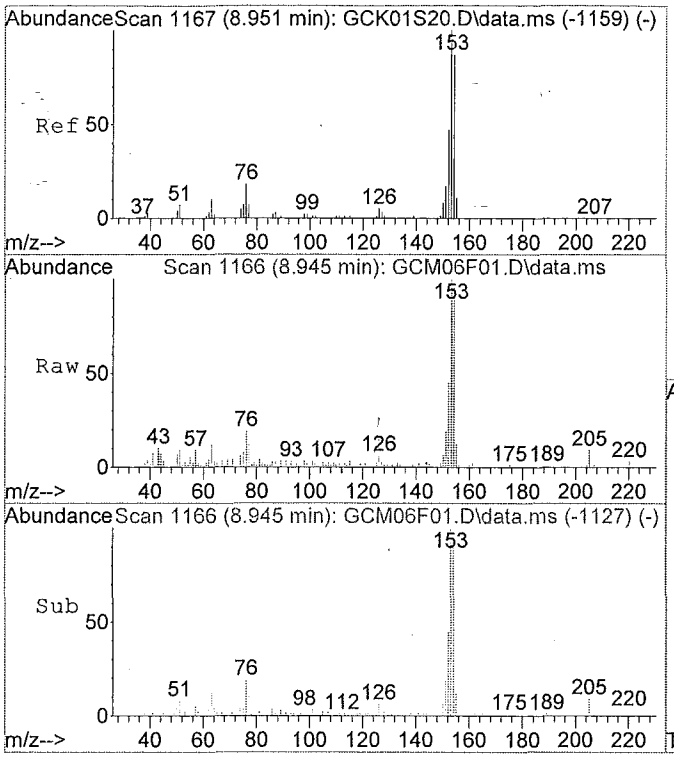


MANUAL RE-INTEGRATION

- [x] missed peak assignment
- [ ] assigned incorrect name to peak
- [ ] over-integrated peak's area
- [ ] under-integrated peak's area
- [ ] other _____

initials NM date 7.16.15

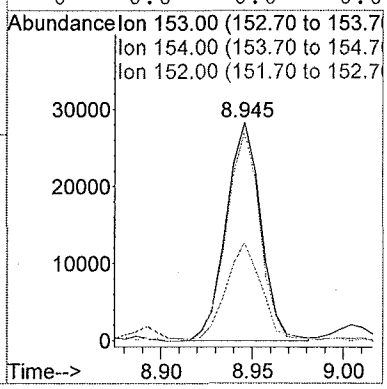
GSOM01D6.M 5975-G GSOM01D6.M 1514293001 F9L58 . SOIL SOM

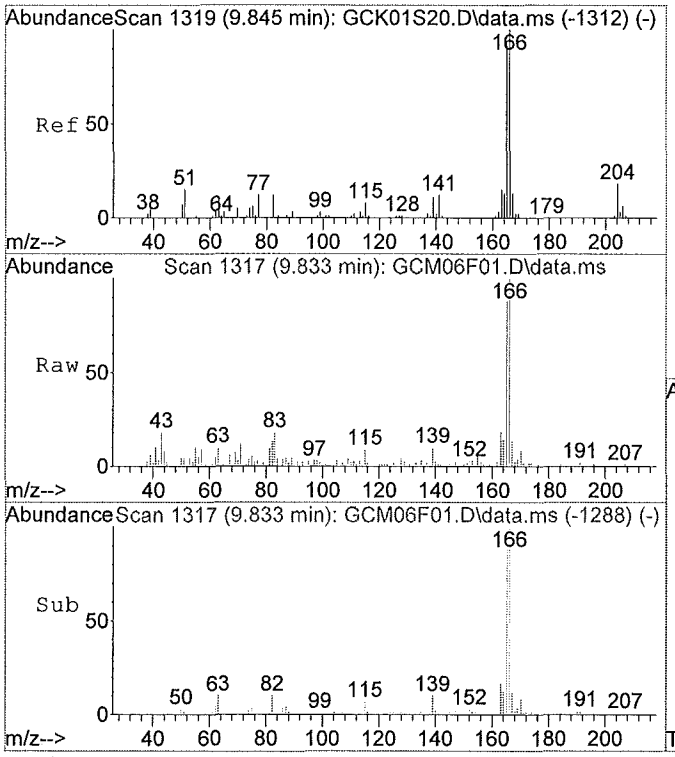


#47
Acenaphthene
Concen: 1.00 ug/ml
RT: 8.95 min Scan# 1166
Delta R.T. -0.07 min
Lab File: GCM06F01.D
Acq: 07/06/2015 17:23

Tgt Ion:153 Resp: 37405

Ion	Ratio	Lower	Upper
153	100		
154	91.5	71.2	132.2
152	46.9	33.5	62.3
0	0.0	0.0	0.0

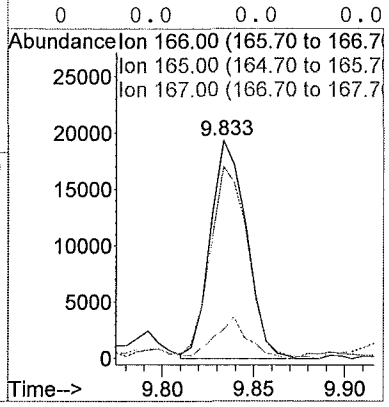


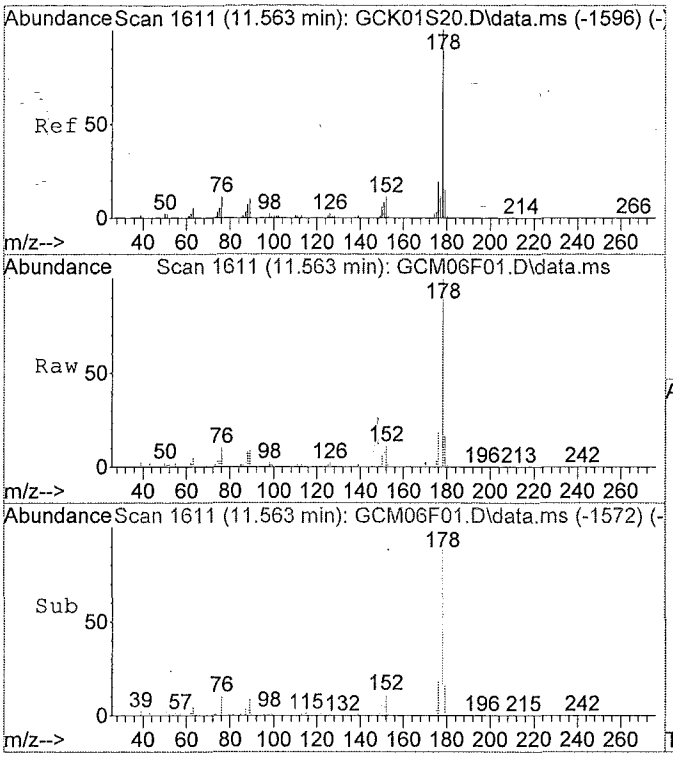


#56
Fluorene
Concen: 0.65 ug/ml
RT: 9.83 min Scan# 1317
Delta R.T. -0.08 min
Lab File: GCM06F01.D
Acq: 07/06/2015 17:23

Tgt Ion:166 Resp: 26565

Ion	Ratio	Lower	Upper
166	100		
165	89.8	63.8	118.4
167	17.1	9.3	17.3
0	0.0	0.0	0.0

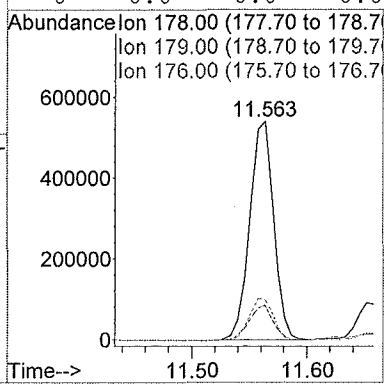


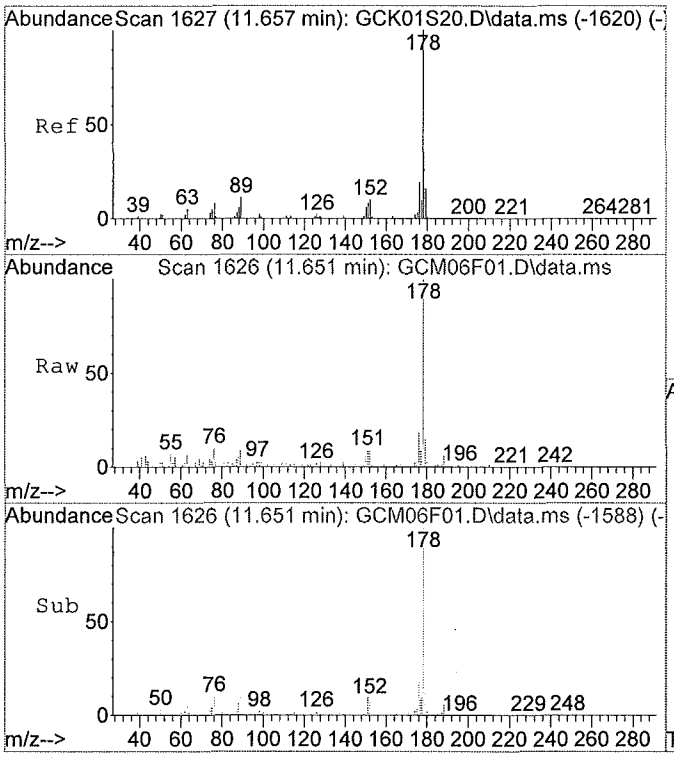


#67
Phenanthrene
Concen: 12.46 ug/ml
RT: 11.56 min Scan# 1611
Delta R.T. -0.07 min
Lab File: GCM06F01.D
Acq: 07/06/2015 17:23

Tgt Ion:178 Resp: 788139

Ion	Ratio	Lower	Upper
178	100		
179	15.4	10.6	19.8
176	19.3	13.2	24.4
0	0.0	0.0	0.0

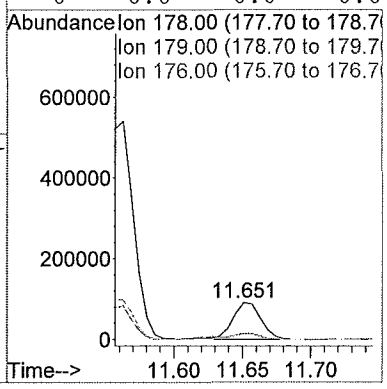


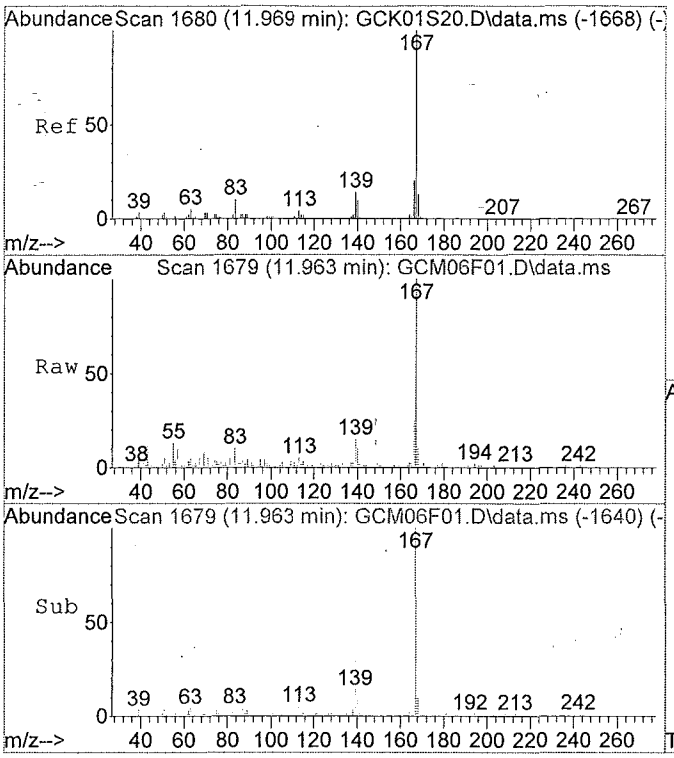


#68
Anthracene
Concen: 2.07 ug/ml
RT: 11.65 min Scan# 1626
Delta R.T. -0.08 min
Lab File: GCM06F01.D
Acq: 07/06/2015 17:23

Tgt Ion:178 Resp: 133594

Ion	Ratio	Lower	Upper
178	100		
179	21.6	10.5	19.5#
176	18.1	12.7	23.5
0	0.0	0.0	0.0

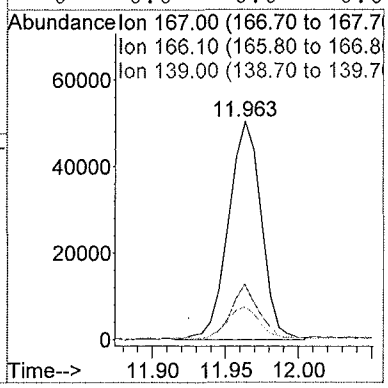


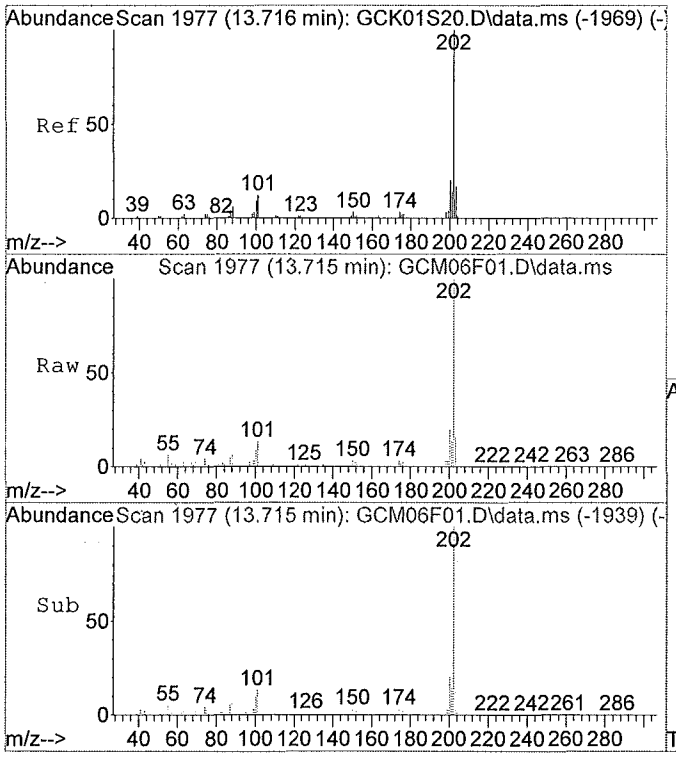


#70
Carbazole
Concen: 1.78 ug/mL
RT: 11.96 min Scan# 1679
Delta R.T. -0.07 min
Lab File: GCM06F01.D
Acq: 07/06/2015 17:23

Tgt Ion:167 Resp: 78706

Ion	Ratio	Lower	Upper
167	100		
166	22.9	15.8	23.8
139	15.4	11.1	16.7
0	0.0	0.0	0.0

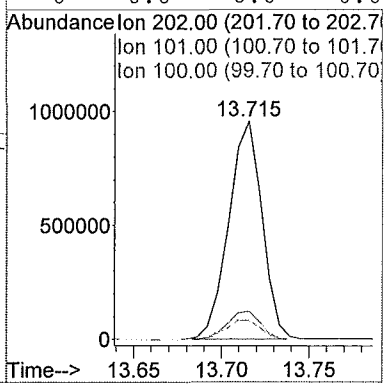


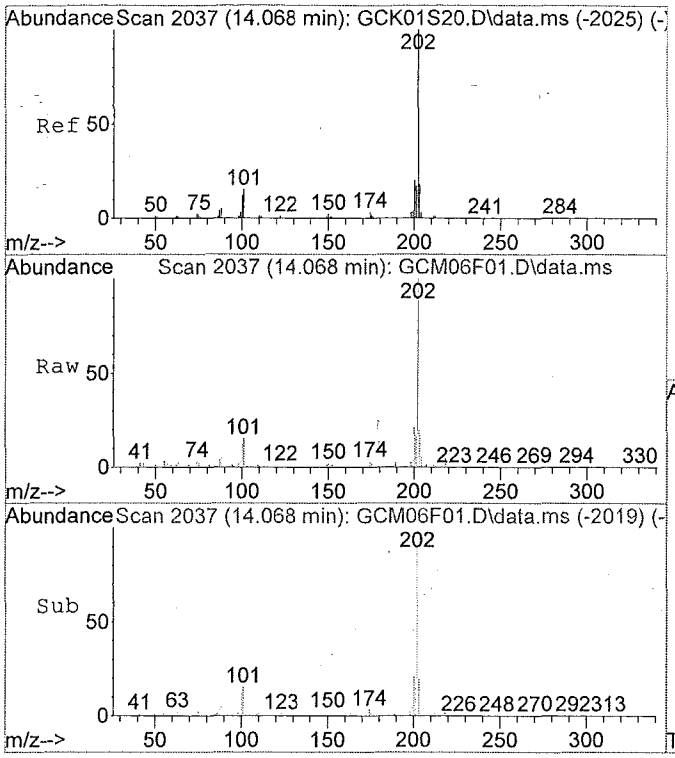


#72
Fluoranthene
Concen: 18.15 ug/ml
RT: 13.72 min Scan# 1977
Delta R.T. -0.06 min
Lab File: GCM06F01.D
Acq: 07/06/2015 17:23

Tgt Ion:202 Resp: 1265460

Ion	Ratio	Lower	Upper
202	100		
101	13.0	10.5	19.5
100	9.2	7.4	13.8
0	0.0	0.0	0.0

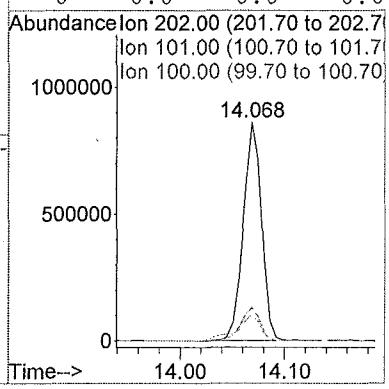


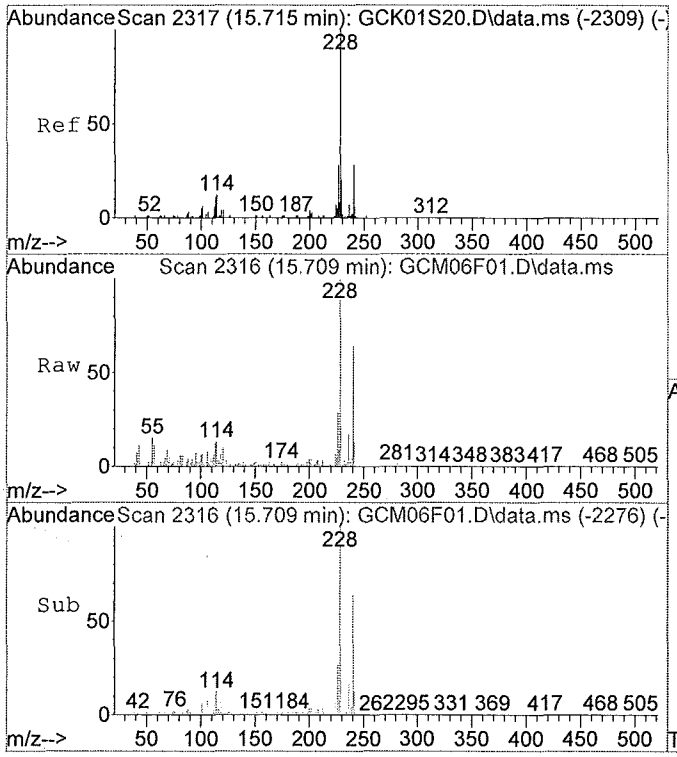


#74
Pyrene
Concen: 14.12 ug/ml
RT: 14.07 min Scan# 2037
Delta R.T. -0.06 min
Lab File: GCM06F01.D
Acq: 07/06/2015 17:23

Tgt Ion:202 Resp: 1039070

Ion	Ratio	Lower	Upper
202	100		
101	16.2	12.2	22.7
100	15.0	10.1	18.7
0	0.0	0.0	0.0

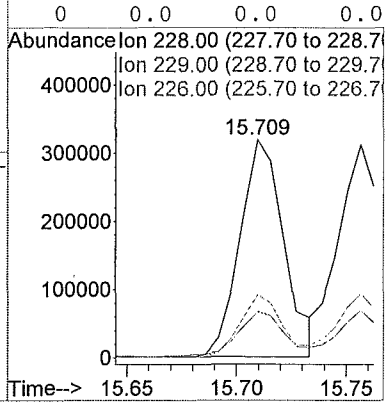


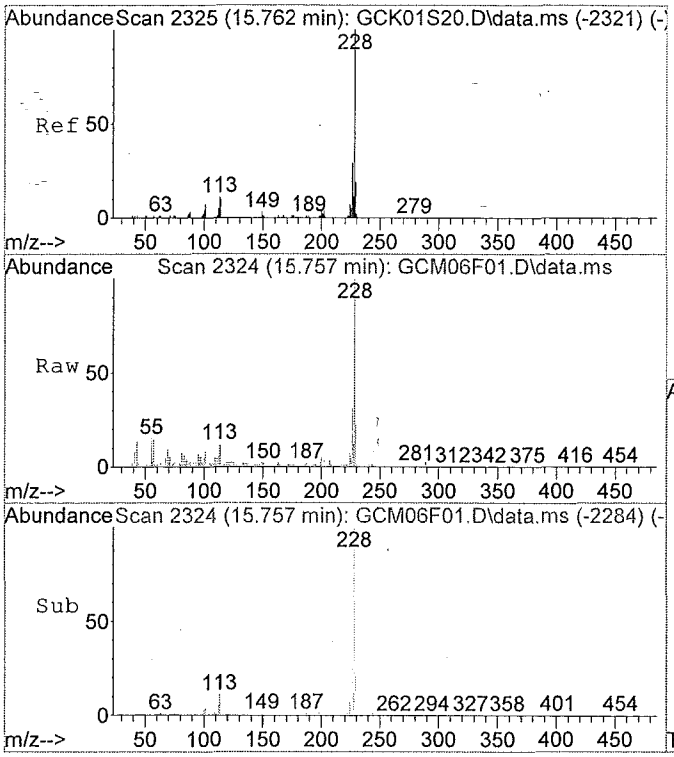


#78
Benzo(a)anthracene
Concen: 6.31 ug/ml
RT: 15.71 min Scan# 2316
Delta R.T. -0.06 min
Lab File: GCM06F01.D
Acq: 07/06/2015 17:23

Tgt Ion:228 Resp: 442206

Ion	Ratio	Lower	Upper
228	100		
229	22.0	13.7	25.5
226	27.8	18.2	33.8
0	0.0	0.0	0.0

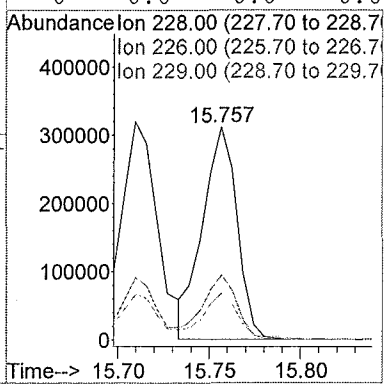


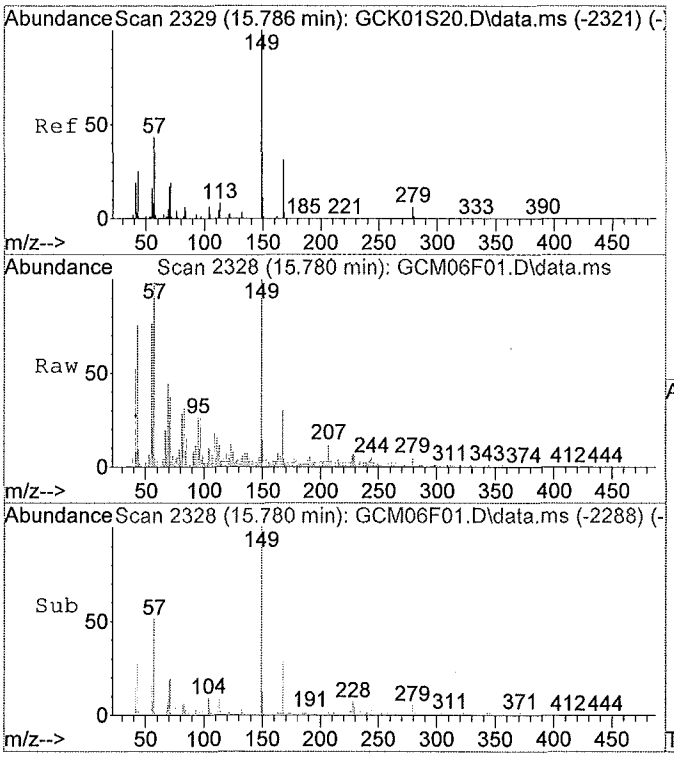


#79
Chrysene
Concen: 6.45 ug/ml
RT: 15.76 min Scan# 2324
Delta R.T. -0.06 min
Lab File: GCM06F01.D
Acq: 07/06/2015 17:23

Tgt Ion:228 Resp: 408750

Ion	Ratio	Lower	Upper
228	100		
226	30.3	20.1	37.3
229	22.2	13.7	25.5
0	0.0	0.0	0.0

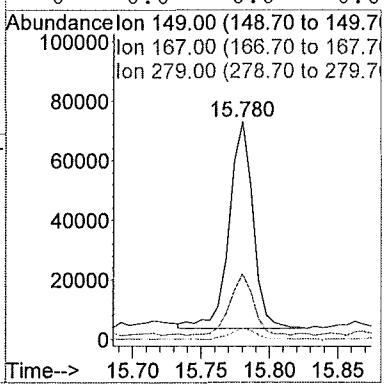


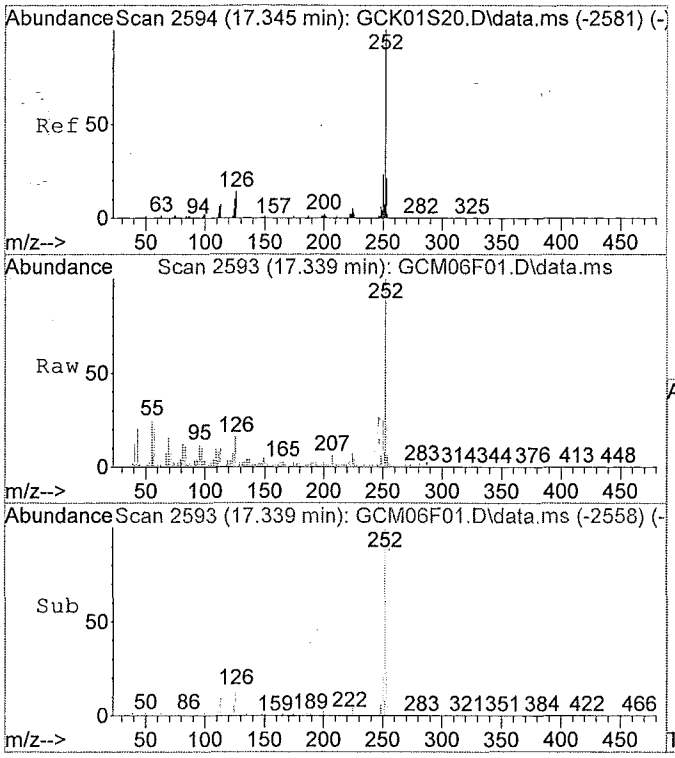


#80
Bis-(2-ethylhexyl)phthalate
Concen: 1.47 ug/ml
RT: 15.78 min Scan# 2328
Delta R.T. -0.06 min
Lab File: GCM06F01.D
Acq: 07/06/2015 17:23

Tgt Ion:149 Resp: 84009

Ion	Ratio	Lower	Upper
149	100		
167	29.4	22.0	40.8
279	7.0	5.0	9.2
0	0.0	0.0	0.0

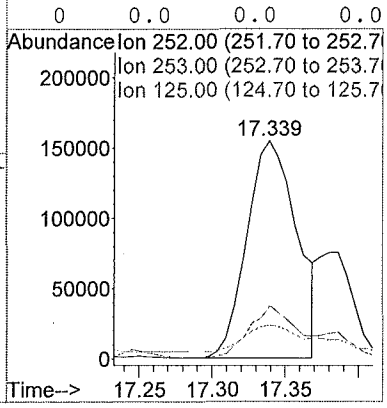


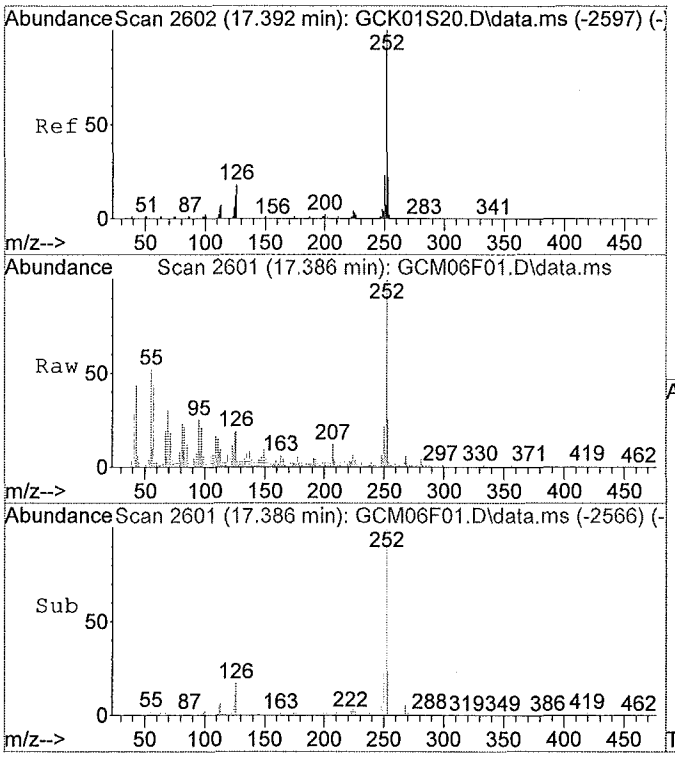


#83
Benzo(b)fluoranthene
Concen: 5.97 ug/ml
RT: 17.34 min Scan# 2593
Delta R.T. -0.09 min
Lab File: GCM06F01.D
Acq: 07/06/2015 17:23

Tgt Ion:252 Resp: 368471

Ion	Ratio	Lower	Upper
252	100		
253	22.3	15.1	28.1
125	18.1	10.6	19.8
0	0.0	0.0	0.0

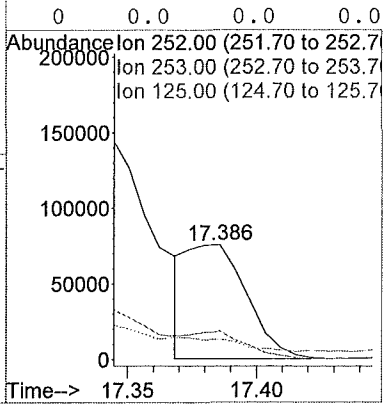


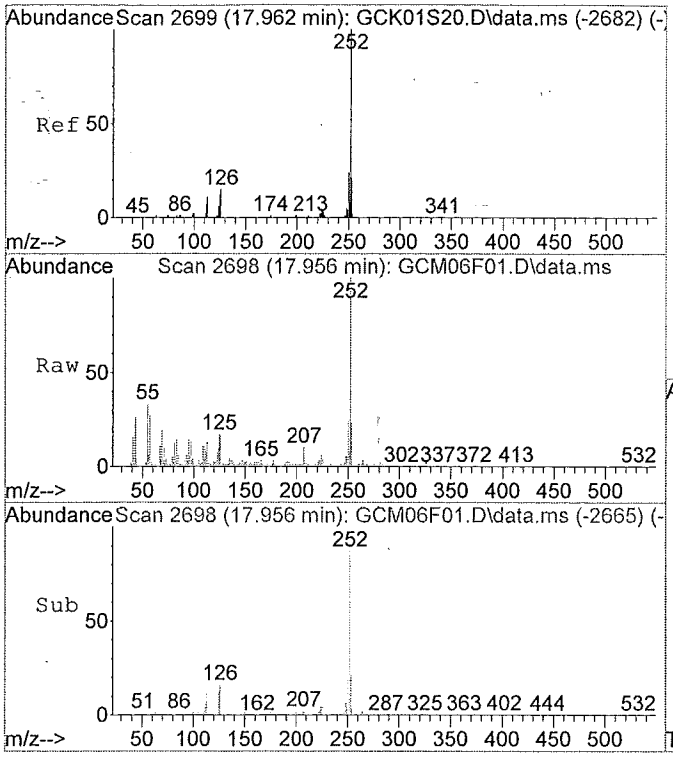


#84
Benzo(k)fluoranthene
Concen: 2.11 ug/ml m
RT: 17.39 min Scan# 2601
Delta R.T. -0.09 min
Lab File: GCM06F01.D
Acq: 07/06/2015 17:23

Tgt Ion:252 Resp: 123208

Ion	Ratio	Lower	Upper
252	100		
253	66.6	15.1	28.1#
125	49.1	10.7	19.9#
0	0.0	0.0	0.0

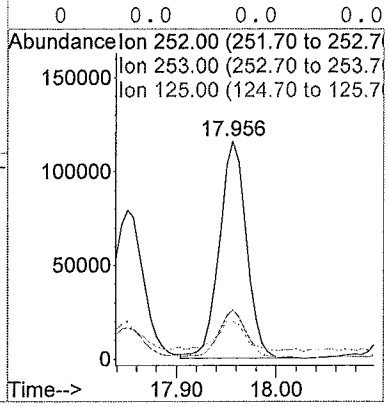


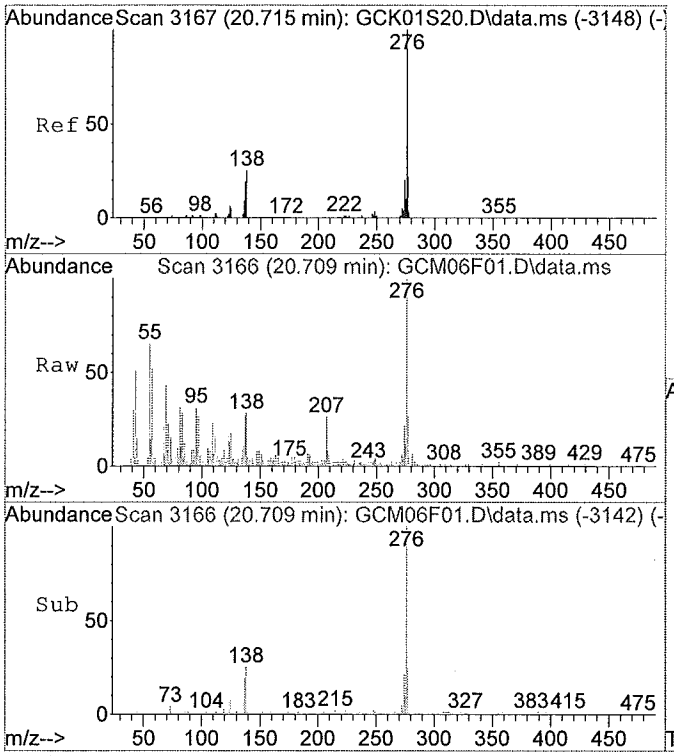


#85
Benzo(a)pyrene
Concen: 3.75 ug/ml
RT: 17.96 min Scan# 2698
Delta R.T. -0.11 min
Lab File: GCM06F01.D
Acq: 07/06/2015 17:23

Tgt Ion:252 Resp: 217565

Ion	Ratio	Lower	Upper
252	100		
253	22.6	15.2	28.2
125	15.2	11.8	21.8
0	0.0	0.0	0.0

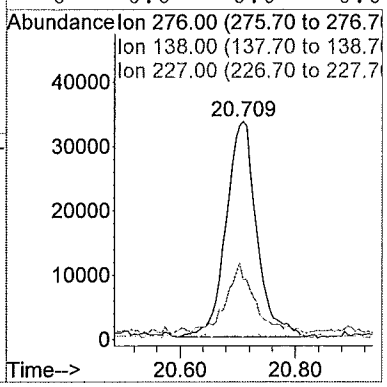


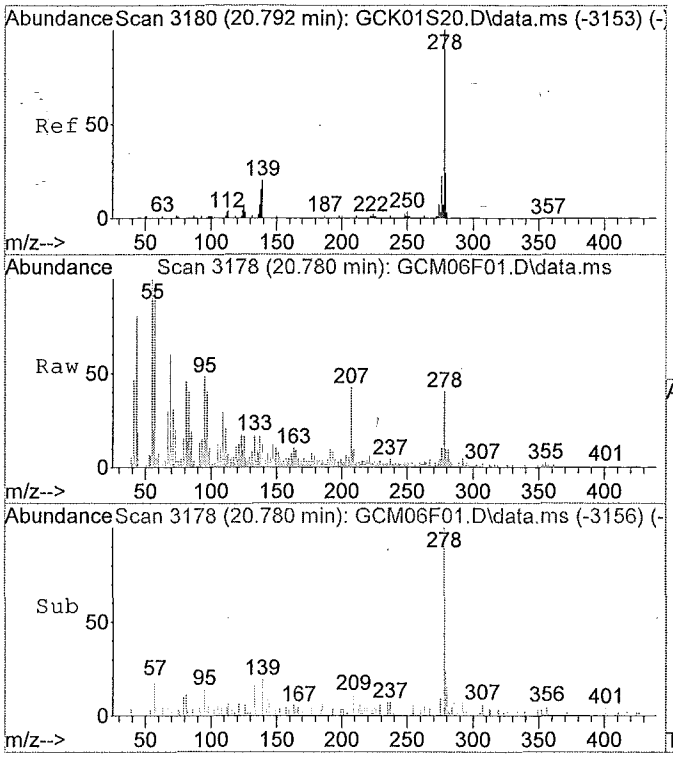


#87
Indeno(1,2,3-c,d)pyrene
Concen: 2.40 ug/ml
RT: 20.71 min Scan# 3166
Delta R.T. -0.16 min
Lab File: GCM06F01.D
Acq: 07/06/2015 17:23

Tgt Ion:276 Resp: 123456

Ion	Ratio	Lower	Upper
276	100		
138	30.5	22.3	41.5
227	0.2	0.1	0.1#
0	0.0	0.0	0.0

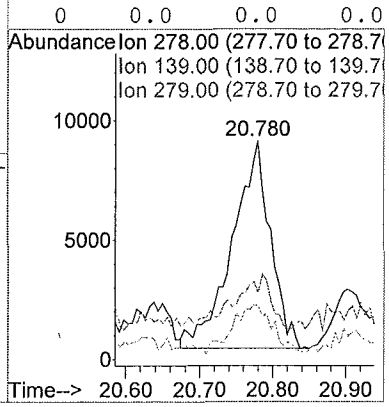


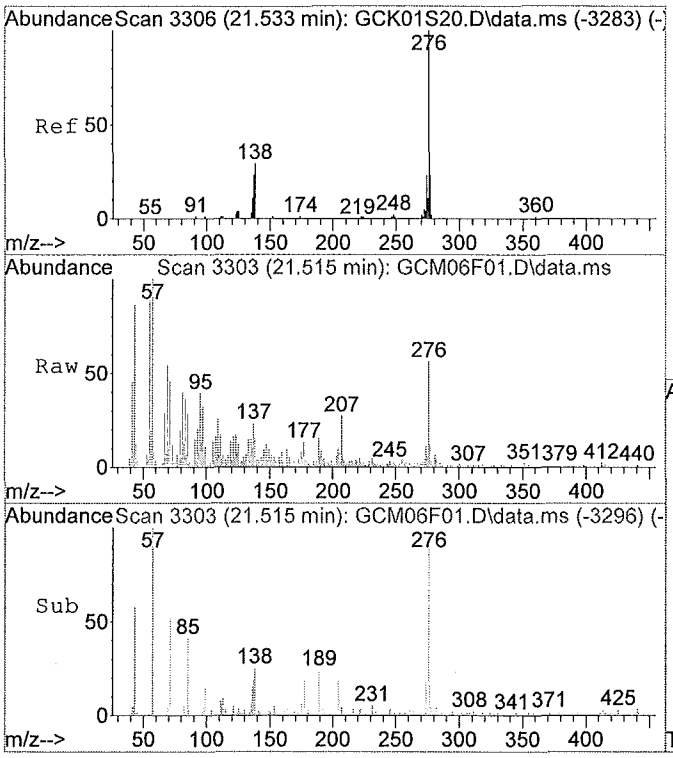


#88
Dibenzo(a,h)anthracene
Concen: 0.61 ug/ml
RT: 20.78 min Scan# 3178
Delta R.T. -0.17 min
Lab File: GCM06F01.D
Acq: 07/06/2015 17:23

Tgt Ion:278 Resp: 31457

Ion	Ratio	Lower	Upper
278	100		
139	18.1	17.3	32.1
279	24.9	16.3	30.3
0	0.0	0.0	0.0

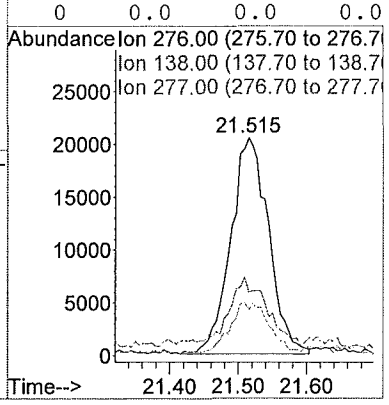




#89
Benzo(g,h,i)perylene
Concen: 1.55 ug/ml
RT: 21.51 min Scan# 3303
Delta R.T. -0.19 min
Lab File: GCM06F01.D
Acq: 07/06/2015 17:23

Tgt Ion:276 Resp: 78570

Ion	Ratio	Lower	Upper
276	100		
138	31.7	24.1	44.7
277	11.9	16.7	30.9#
0	0.0	0.0	0.0



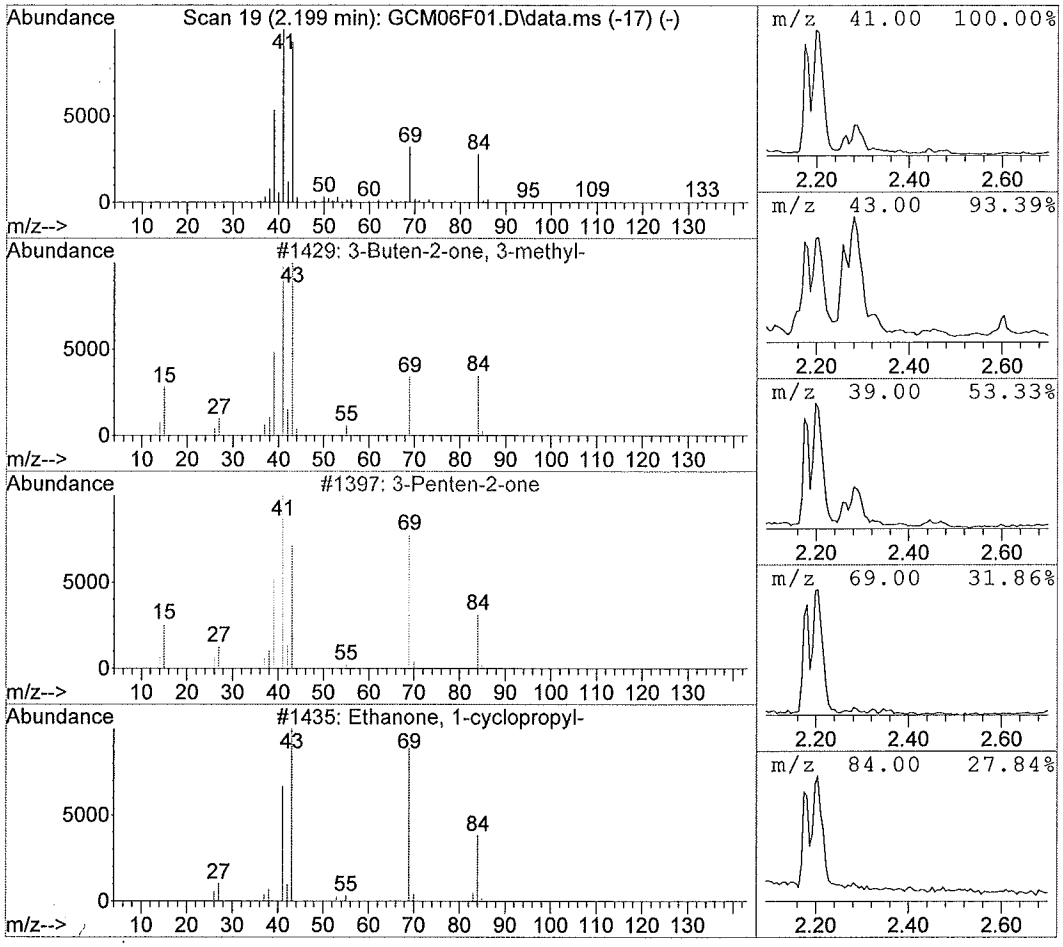
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.20	2.57 ug/ml	273898	1,4-Dichlorobenzene-d4	2129608

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Buten-2-one, 3-methyl-	1429	000814-78-8	64.00
2	3-Penten-2-one	1397	000625-33-2	39.00
3	Ethanone, 1-cyclopropyl-	1435	000765-43-5	38.00
4	2,2,6-Trimethyl-4H-1,3-dioxin-4-one	19499	005394-63-8	12.00
5	2-Pentene, 4-methyl-, (Z)-	1507	000691-38-3	12.00



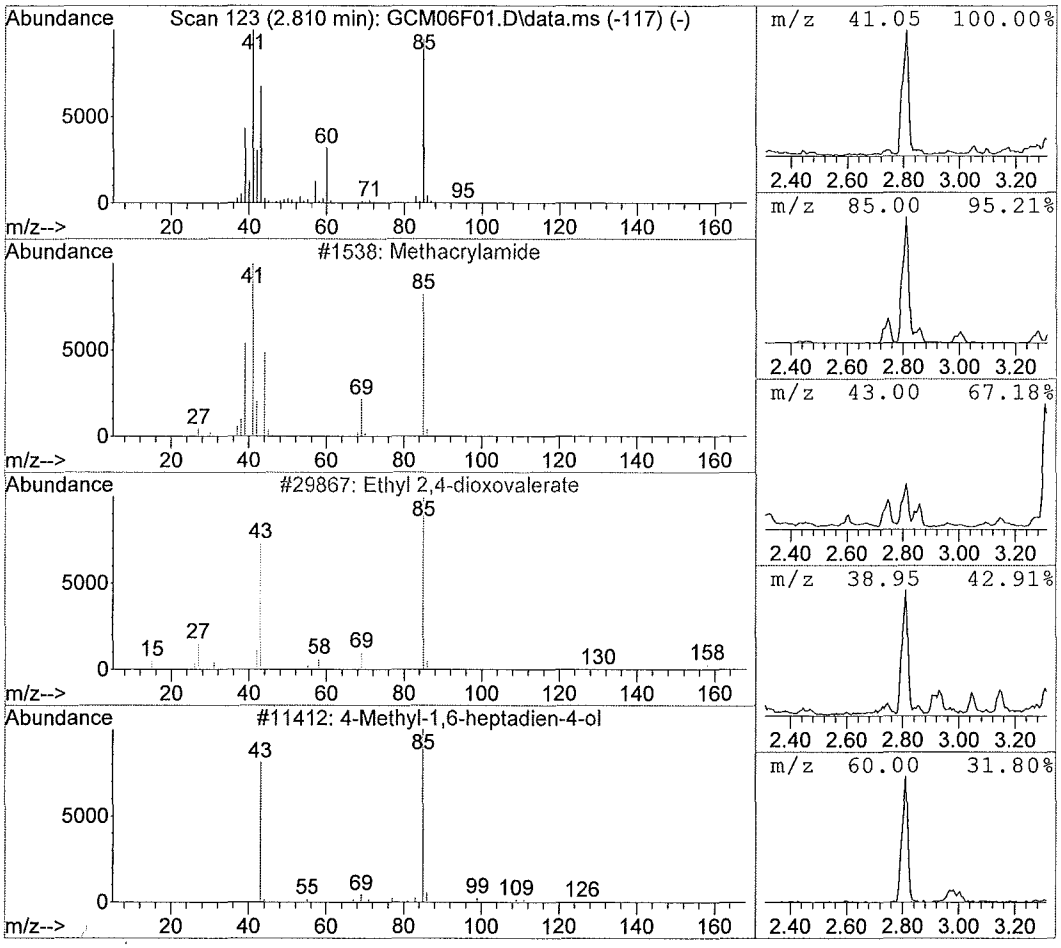
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.81	4.25 ug/ml	452163	1,4-Dichlorobenzene-d4	2129608

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methacrylamide	1538	000079-39-0	38.00
2	Ethyl 2,4-dioxovalerate	29867	000615-79-2	25.00
3	4-Methyl-1,6-heptadien-4-ol	11412	025201-40-5	23.00
4	Thiazole	1535	000288-47-1	17.00
5	2-Pyrrolidinone	1544	000616-45-5	9.00



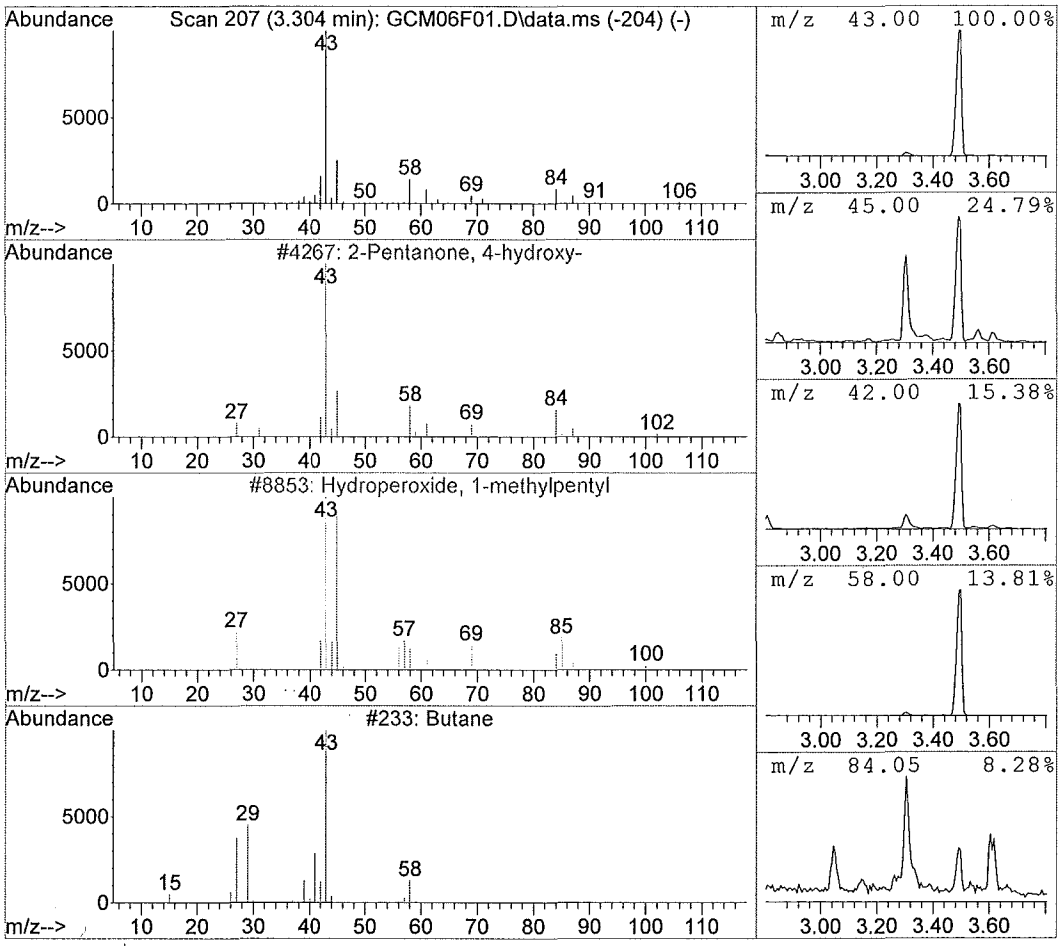
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.30	4.21 ug/ml	448117	1,4-Dichlorobenzene-d4	2129608

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	45.00
2	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	33.00
3	Butane	233	000106-97-8	25.00
4	2-Pentanone, 5-(acetyloxy)-	20664	005185-97-7	25.00
5	Ethylamine	86	000075-04-7	9.00



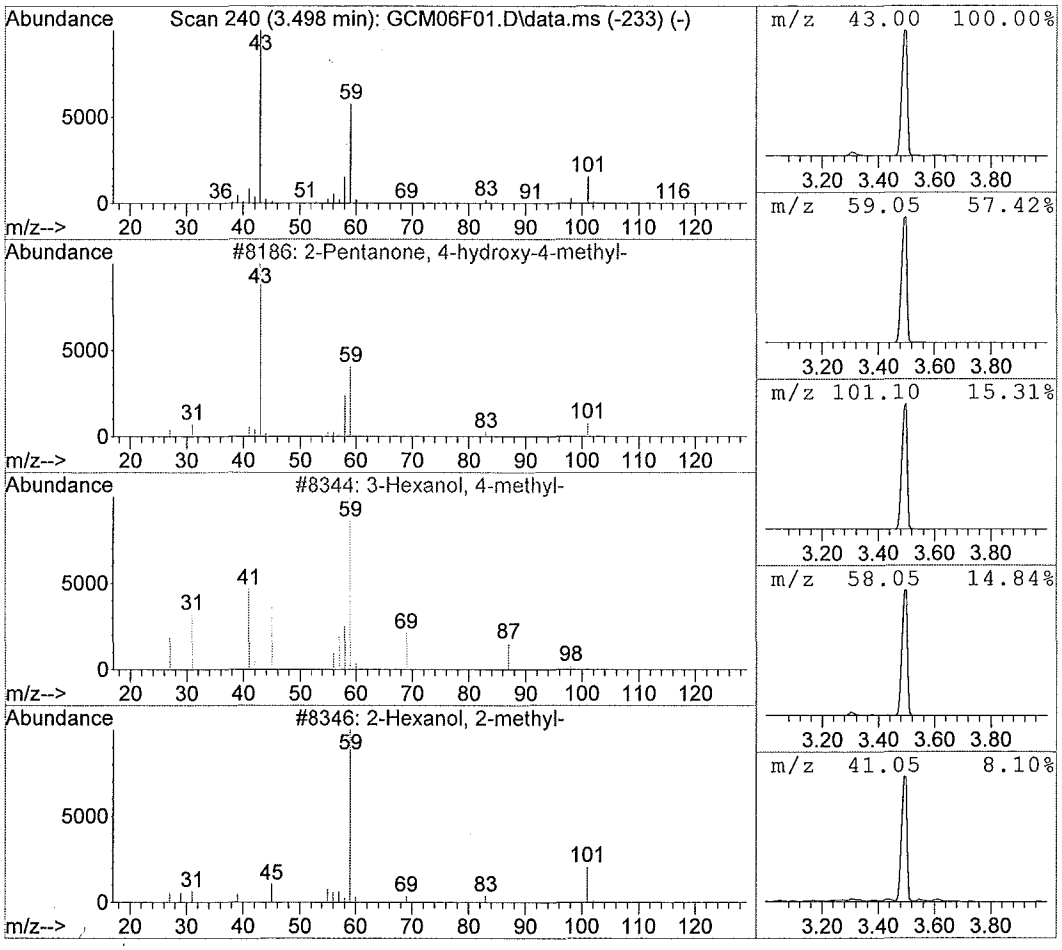
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.50	151.40 ug/ml	16121484	1,4-Dichlorobenzene-d4	2129608

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
2	3-Hexanol, 4-methyl-	8344	000615-29-2	33.00
3	2-Hexanol, 2-methyl-	8346	000625-23-0	28.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	23.00
5	2,3-Butanedione, monooxime	4030	000057-71-6	9.00



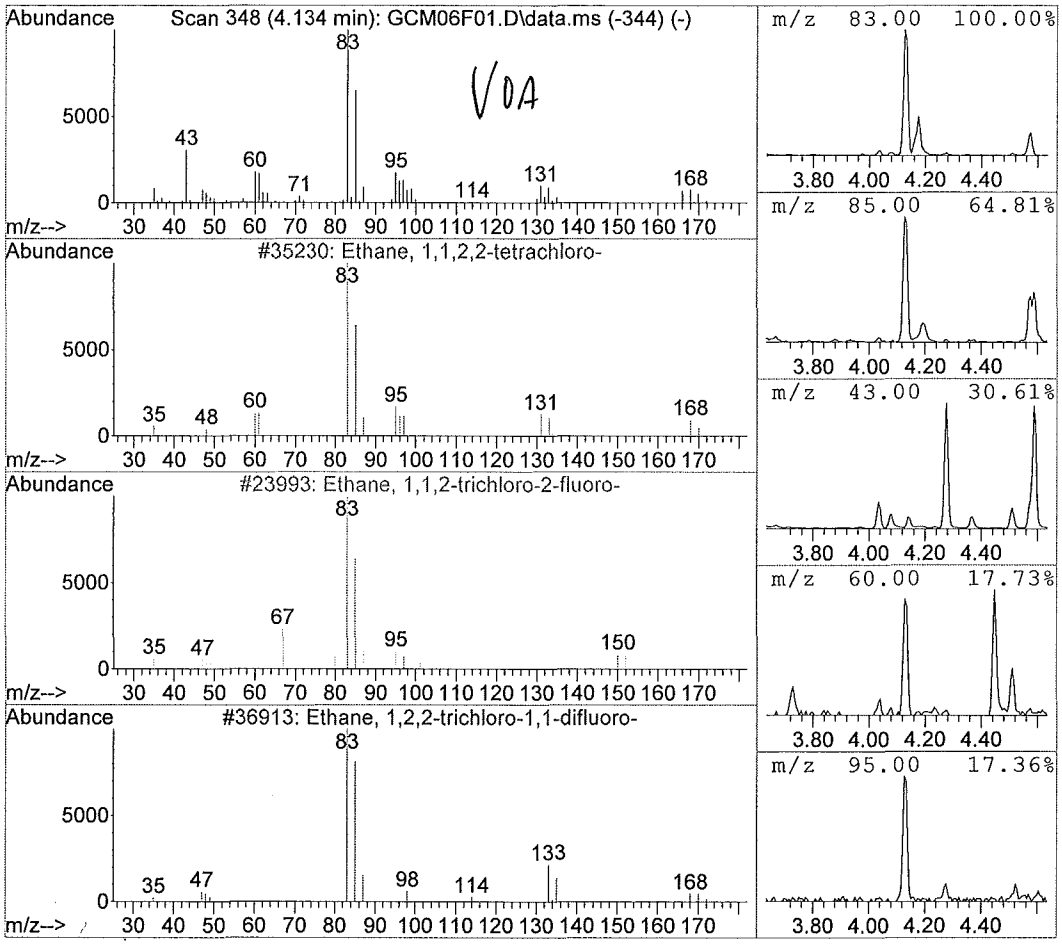
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.13	2.44 ug/ml	259449	1,4-Dichlorobenzene-d4	2129608

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	35230	000079-34-5	96.00
2	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	59.00
3	Ethane, 1,2,2-trichloro-1,1-difluor	36913	000354-21-2	58.00
4	Methane, bromodichloro-	32801	000075-27-4	50.00
5	Trichloromethane	8989	000067-66-3	50.00



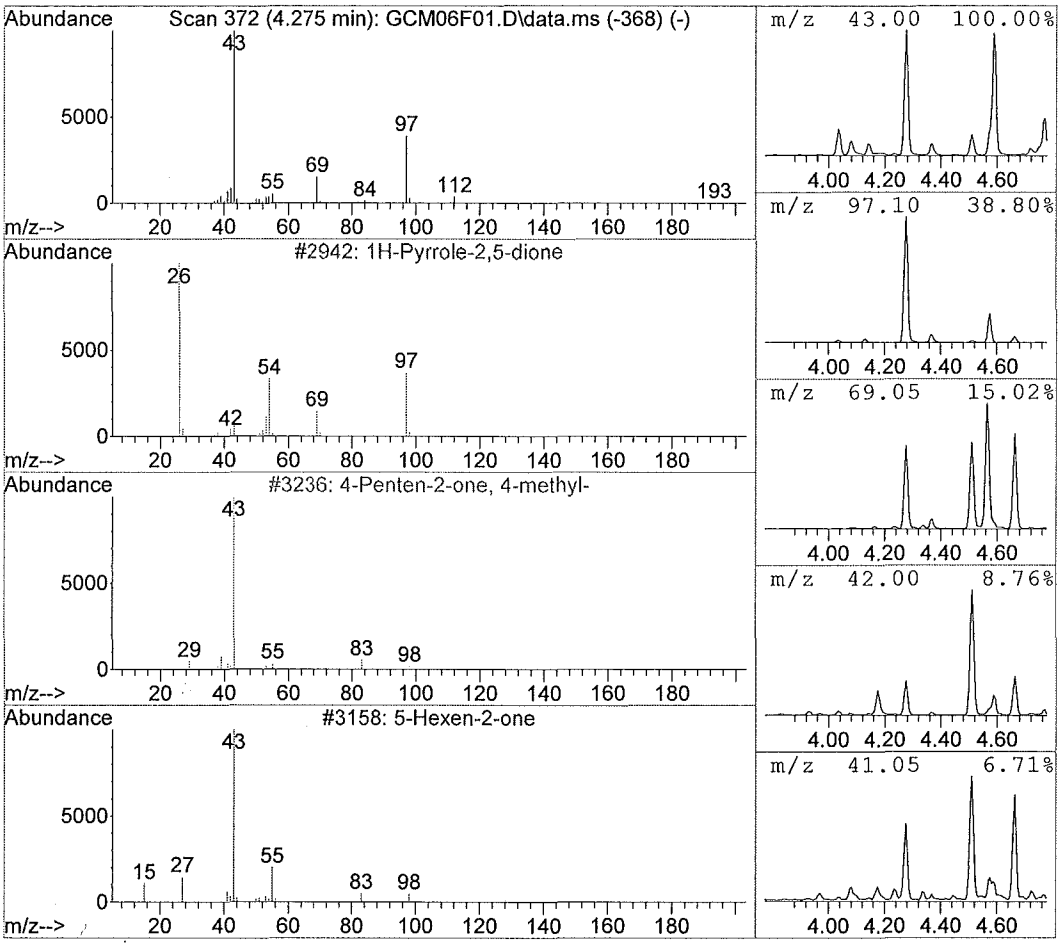
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.27	10.91 ug/ml	1161430	1,4-Dichlorobenzene-d4	2129608

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	40.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	5-Hexen-2-one	3158	000109-49-9	9.00
4	2-Propyn-1-ol, acetate	3098	000627-09-8	5.00
5	5-Hexen-2-one, 5-methyl-	6517	003240-09-3	5.00



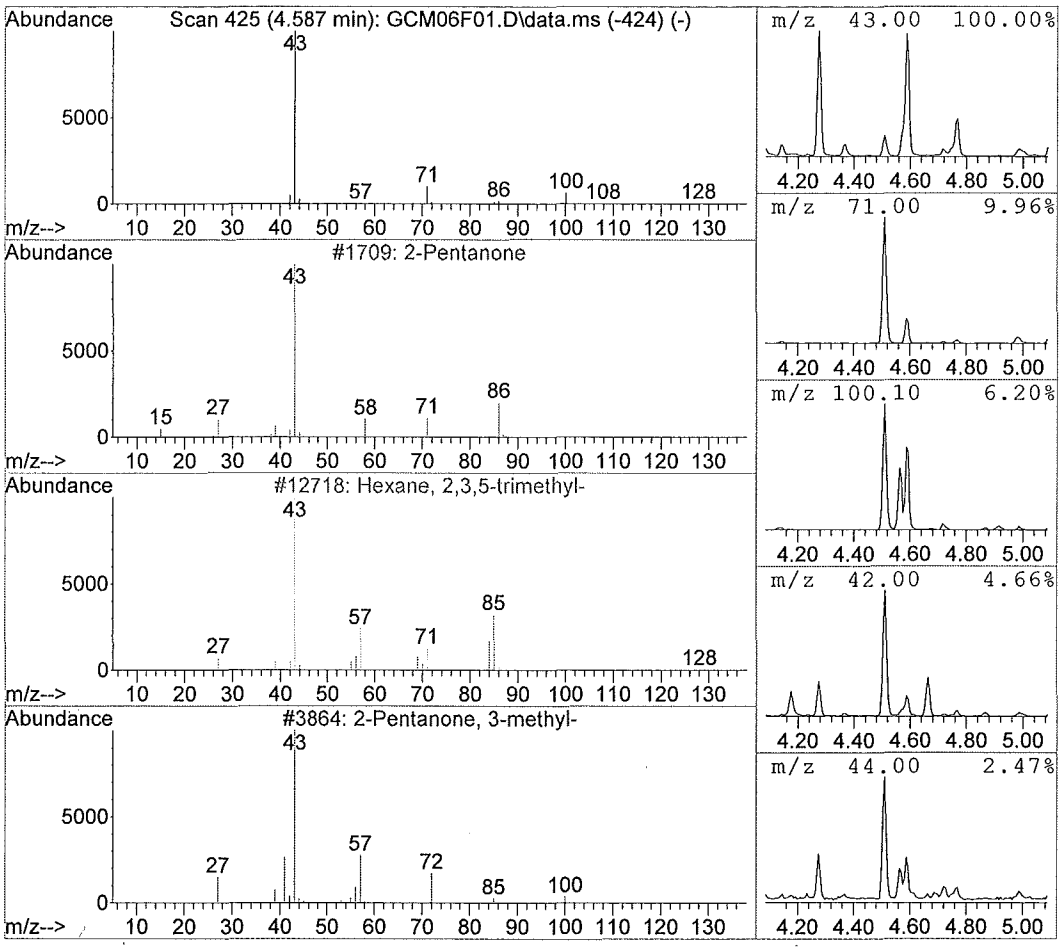
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.59	6.26 ug/ml	666708	1,4-Dichlorobenzene-d4	2129608

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone	1709	000107-87-9	9.00
2	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
3	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
4	Heptane, 2,4-dimethyl-	12695	002213-23-2	5.00
5	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00



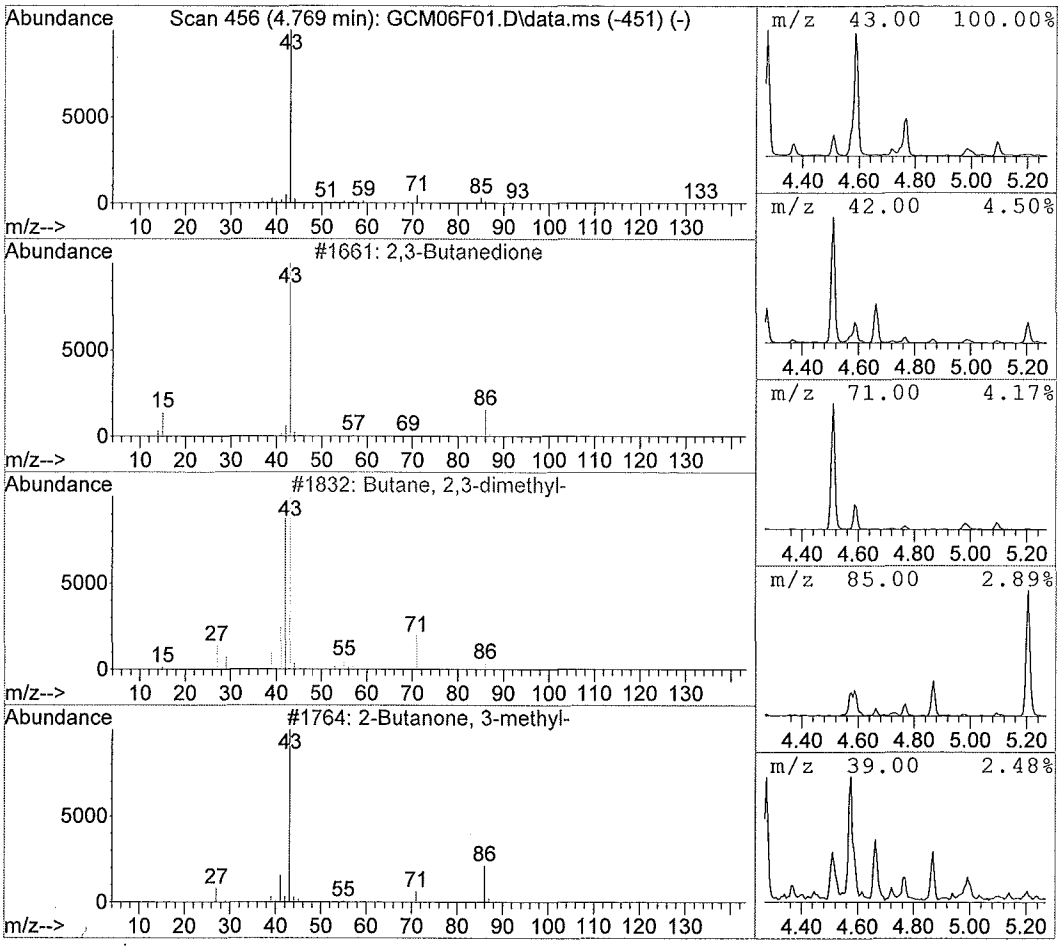
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.77	2.74 ug/ml	291965	1,4-Dichlorobenzene-d4	2129608

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,3-Butanedione	1661	000431-03-8	9.00
2	Butane, 2,3-dimethyl-	1832	000079-29-8	4.00
3	2-Butanone, 3-methyl-	1764	000563-80-4	4.00
4	2-Pentanone	1710	000107-87-9	4.00
5	1-Butanol	833	000071-36-3	3.00



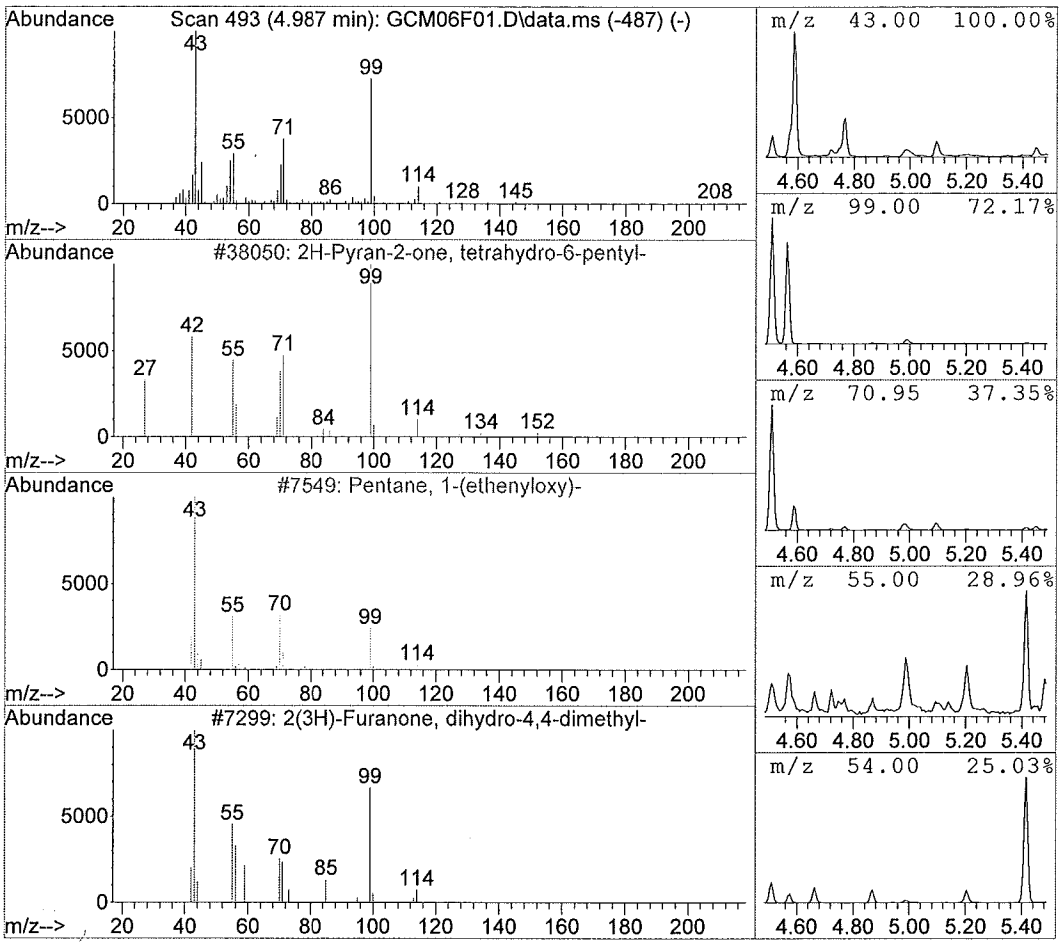
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.99	2.41 ug/ml	257034	1,4-Dichlorobenzene-d4	2129608

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2H-Pyran-2-one, tetrahydro-6-pentyl	38050	000705-86-2	47.00
2	Pentane, 1-(ethenyloxy)-	7549	005363-63-3	46.00
3	2(3H)-Furanone, dihydro-4,4-dimethy	7299	013861-97-7	46.00
4	.delta.-Nonalactone	28964	003301-94-8	43.00
5	4-Methylthiazole	3458	000693-95-8	43.00



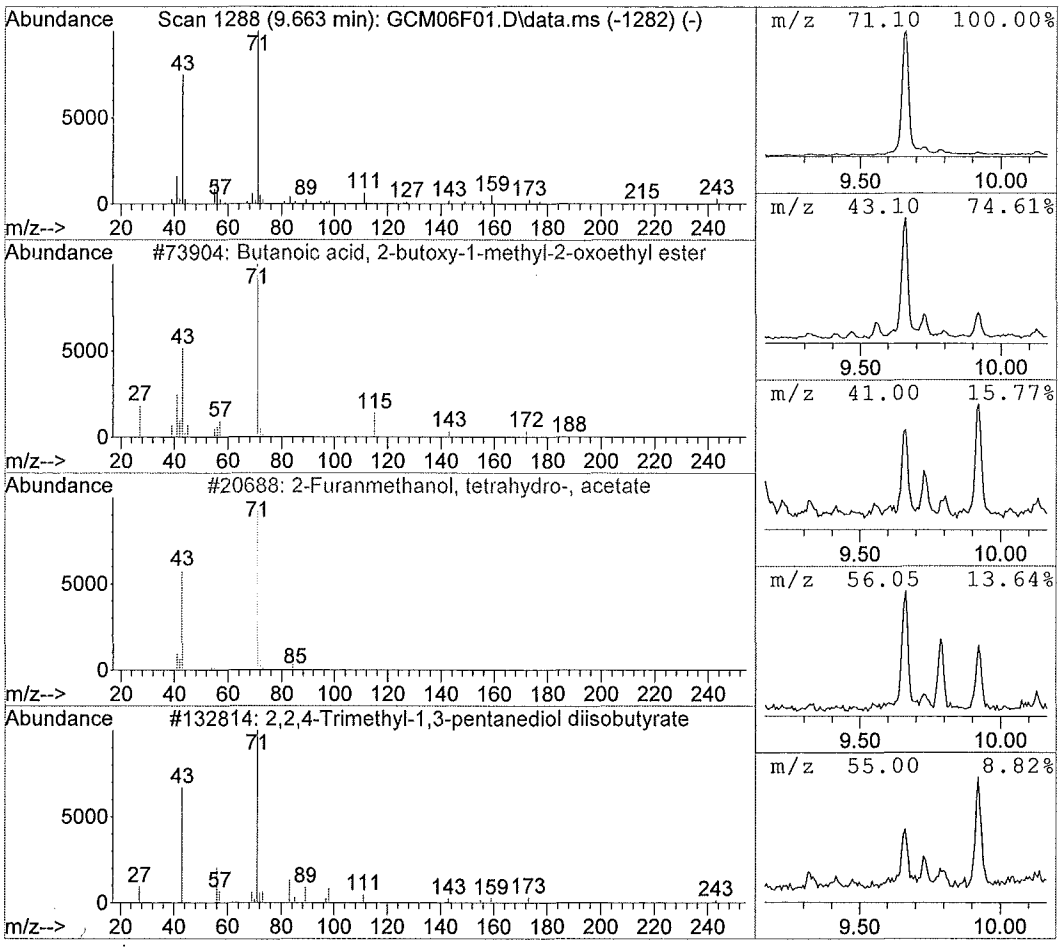
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.66	2.11 ug/ml	313254	Acenaphthene-d10	2975584

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Butanoic acid, 2-butoxy-1-methyl-2-	73904	007492-70-8	56.00
2	2-Furanmethanol, tetrahydro-, aceta	20688	000637-64-9	50.00
3	2,2,4-Trimethyl-1,3-pentanediol dii	132814	006846-50-0	40.00
4	Carbonic acid, dipentyl ester	62445	002050-94-4	39.00
5	Pentanoic acid, 2,2,4-trimethyl-3-c	132856	1000140-77-5	38.00



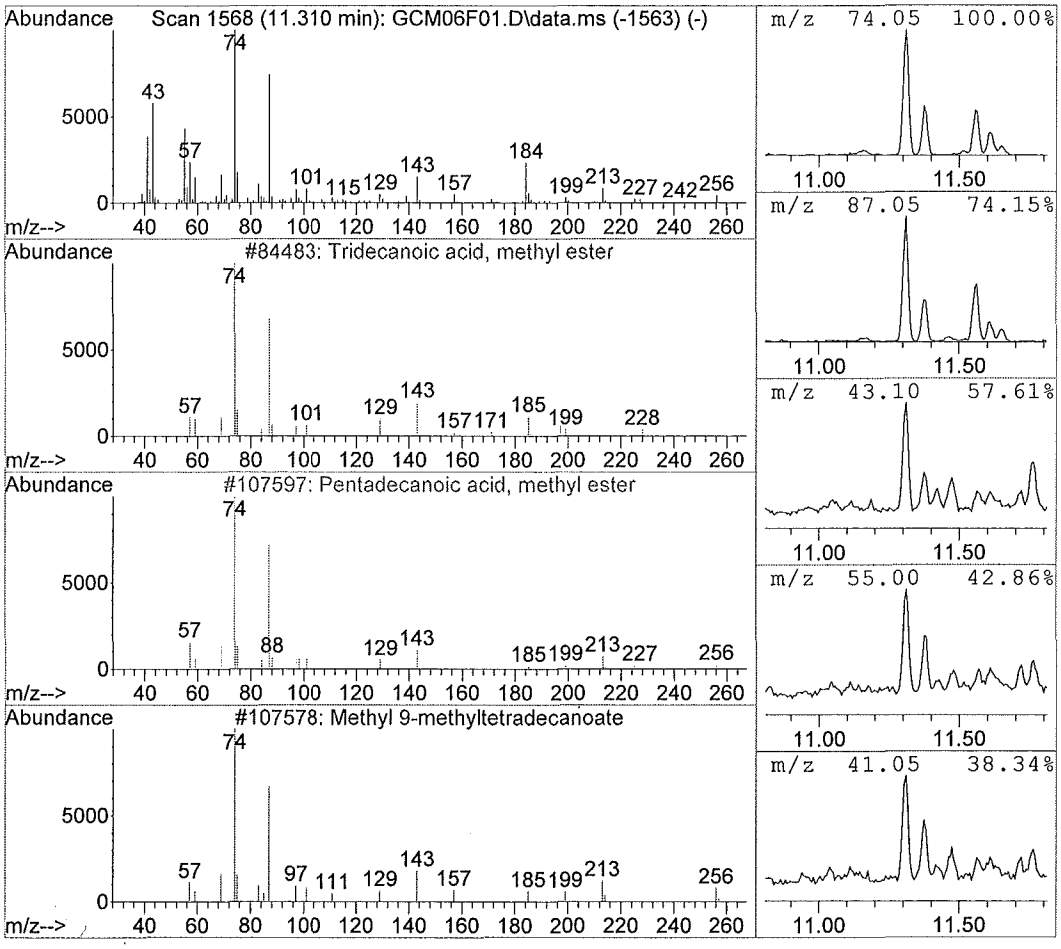
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.31	3.13 ug/ml	479661	Phenanthrene-d10	3065451

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecanoic acid, methyl ester	84483	001731-88-0	91.00
2	Pentadecanoic acid, methyl ester	107597	007132-64-1	91.00
3	Methyl 9-methyltetradecanoate	107578	213617-69-7	83.00
4	Decanoic acid, methyl ester	50099	000110-42-9	81.00
5	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	72.00



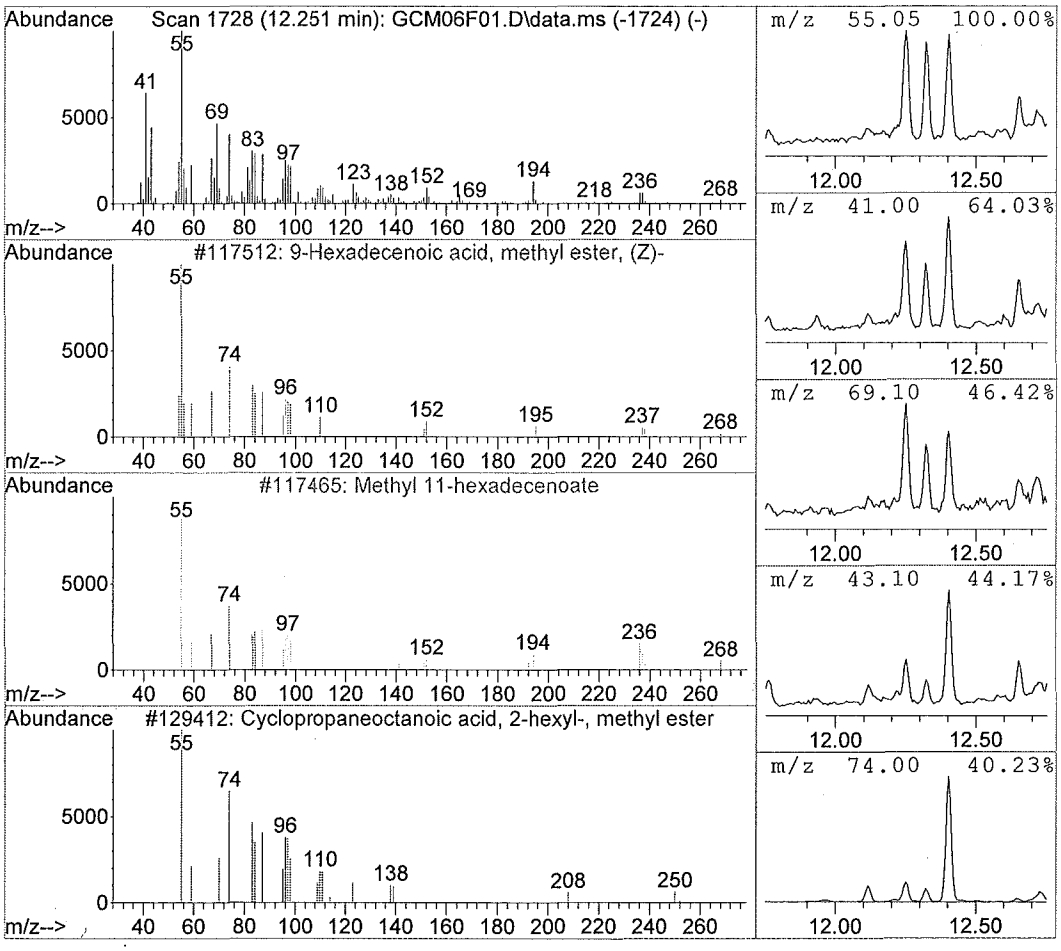
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.25	3.11 ug/ml	475943	Phenanthrene-d10	3065451

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Hexadecenoic acid, methyl ester,	117512	001120-25-8	95.00
2	Methyl 11-hexadecenoate	117465	1000336-35-5	91.00
3	Cyclopropaneoctanoic acid, 2-hexyl-	129412	010152-61-1	72.00
4	9-Octadecenoic acid (Z)-, methyl es	141302	000112-62-9	72.00
5	13-Octadecenoic acid, methyl ester	141292	056554-47-3	58.00



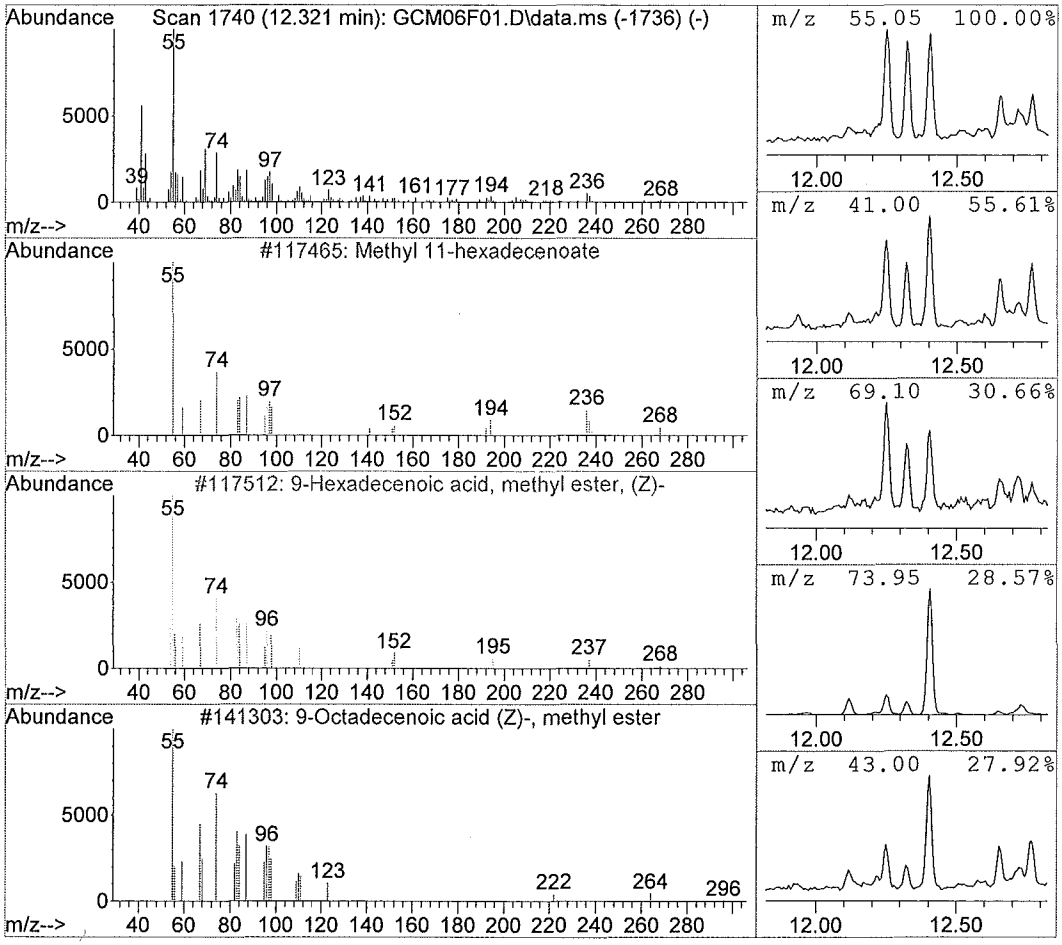
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.32	2.27 ug/ml	348628	Phenanthrene-d10	3065451

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methyl 11-hexadecenoate	117465	1000336-35-5	94.00
2	9-Hexadecenoic acid, methyl ester,	117512	001120-25-8	94.00
3	9-Octadecenoic acid (Z)-, methyl es	141303	000112-62-9	87.00
4	14-Methylpentadec-9-enoic acid meth	117520	1000365-89-7	80.00
5	Methyl 9-tetradecenoate	94125	1000336-47-3	78.00



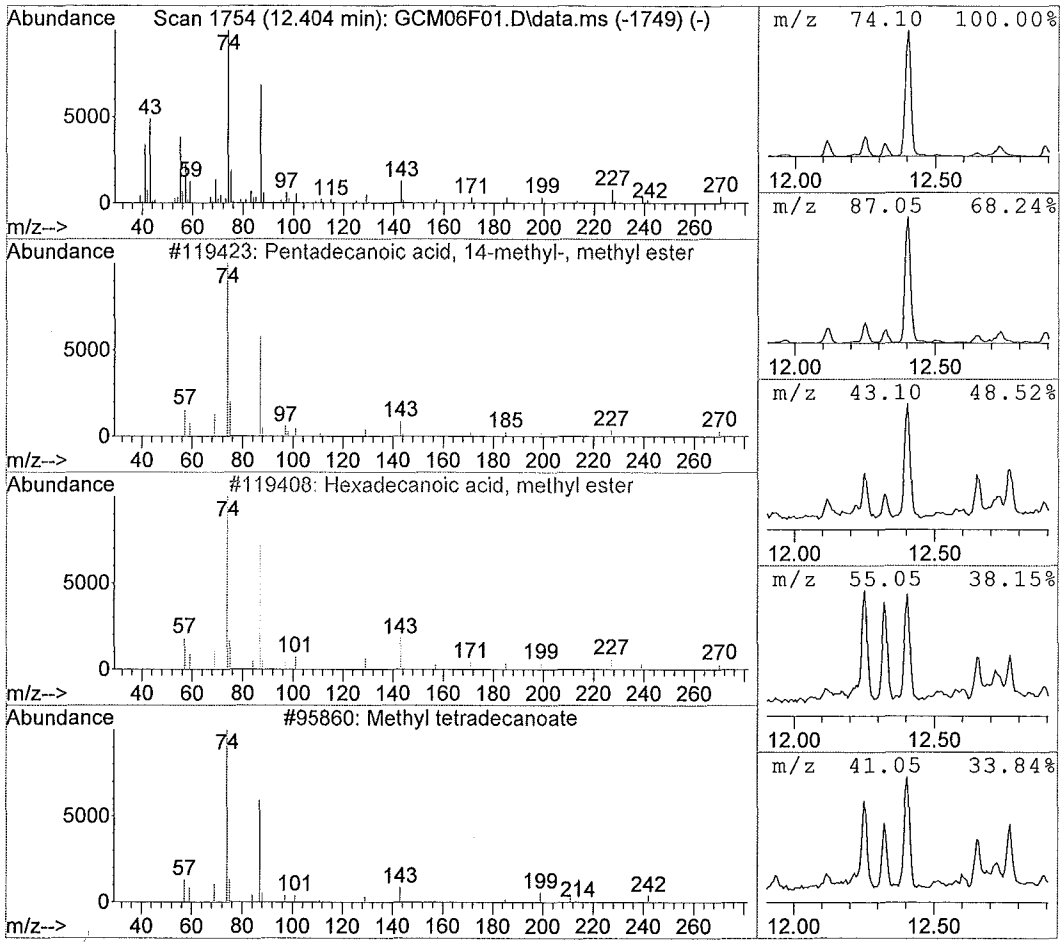
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.40	4.93 ug/ml	755582	Phenanthrene-d10	3065451

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	98.00
2	Hexadecanoic acid, methyl ester	119408	000112-39-0	98.00
3	Methyl tetradecanoate	95860	000124-10-7	94.00
4	Tridecanoic acid, methyl ester	84485	001731-88-0	91.00
5	Hexadecanoic acid, 15-methyl-, meth	131317	006929-04-0	91.00



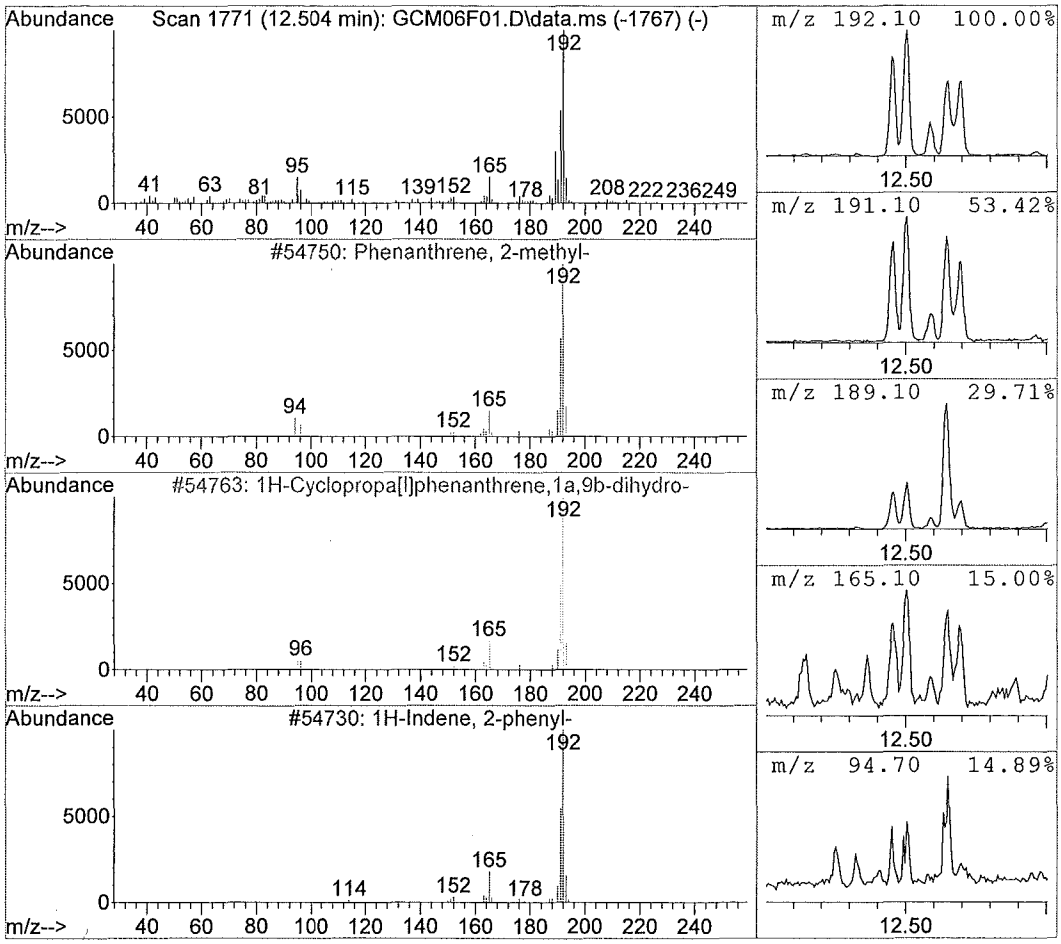
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.50	2.03 ug/ml	311271	Phenanthrene-d10	3065451

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenanthrene, 2-methyl-	54750	002531-84-2	97.00
2	1H-Cyclopropa[l]phenanthrene,1a,9b-	54763	000949-41-7	96.00
3	1H-Indene, 2-phenyl-	54730	004505-48-0	95.00
4	Phenanthrene, 1-methyl-	54746	000832-69-9	95.00
5	Anthracene, 2-methyl-	54735	000613-12-7	95.00



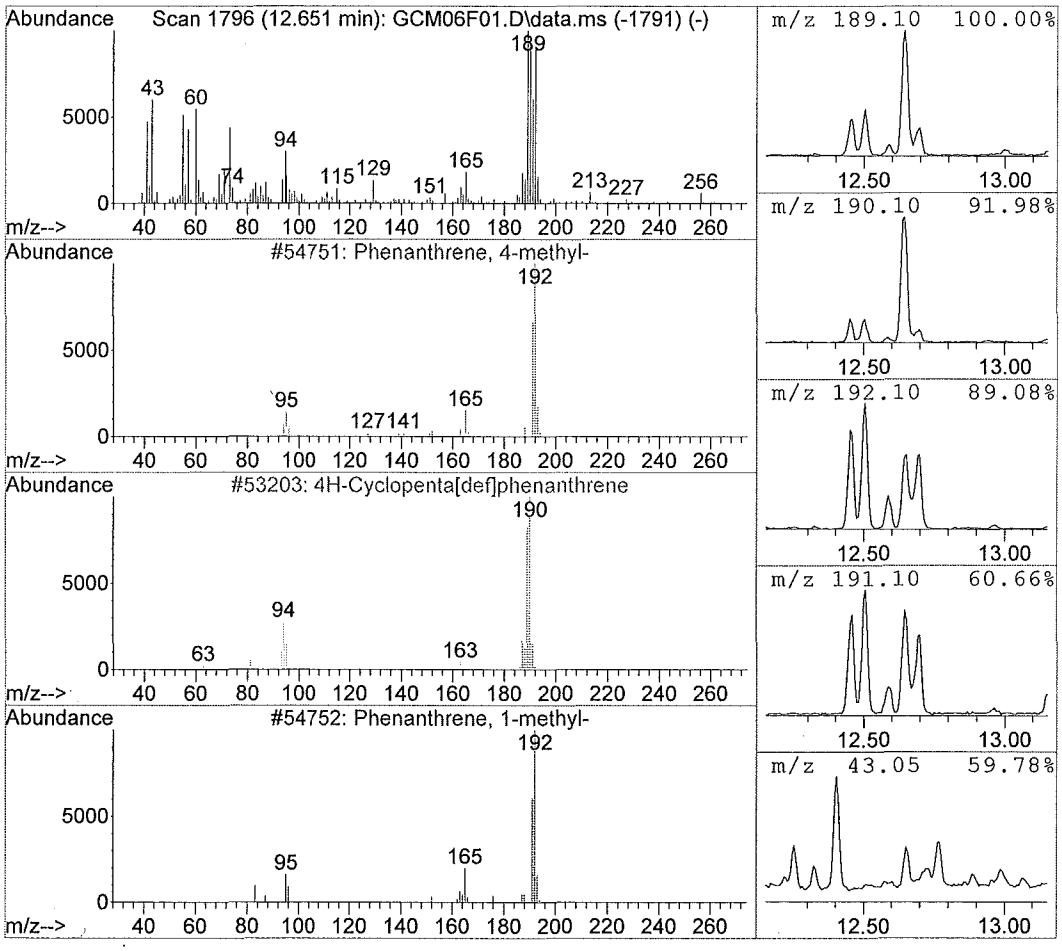
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.65	4.05 ug/ml	621512	Phenanthrene-d10	3065451

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenanthrene, 4-methyl-	54751	000832-64-4	70.00
2	4H-Cyclopenta[def]phenanthrene	53203	000203-64-5	55.00
3	Phenanthrene, 1-methyl-	54752	000832-69-9	51.00
4	6H-Cyclobuta[jk]phenanthrene	53202	083469-43-6	49.00
5	1H-Indene, 2-phenyl-	54730	004505-48-0	38.00



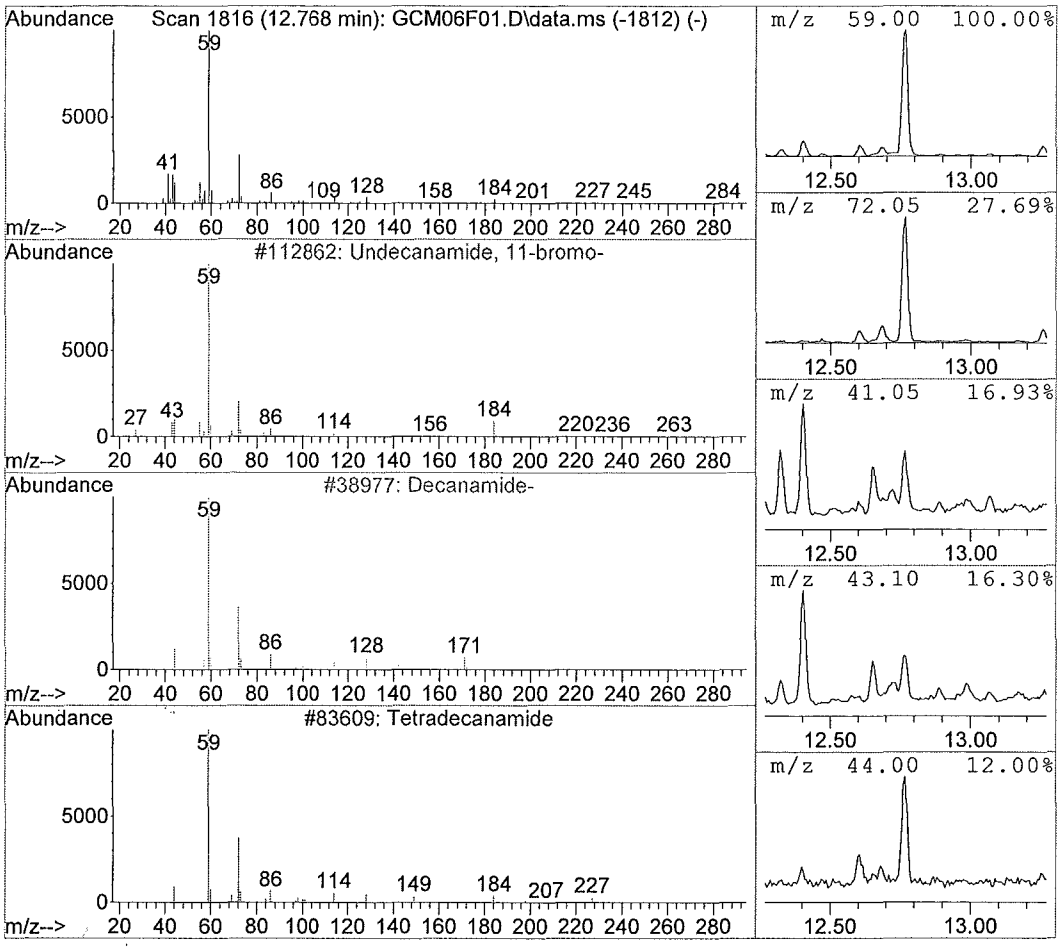
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.77	2.42 ug/ml	370262	Phenanthrene-d10	3065451

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
2	Decanamide-	38977	002319-29-1	74.00
3	Tetradecanamide	83609	000638-58-4	74.00
4	Nonanamide	29478	001120-07-6	72.00
5	Hexanamide	7793	000628-02-4	59.00



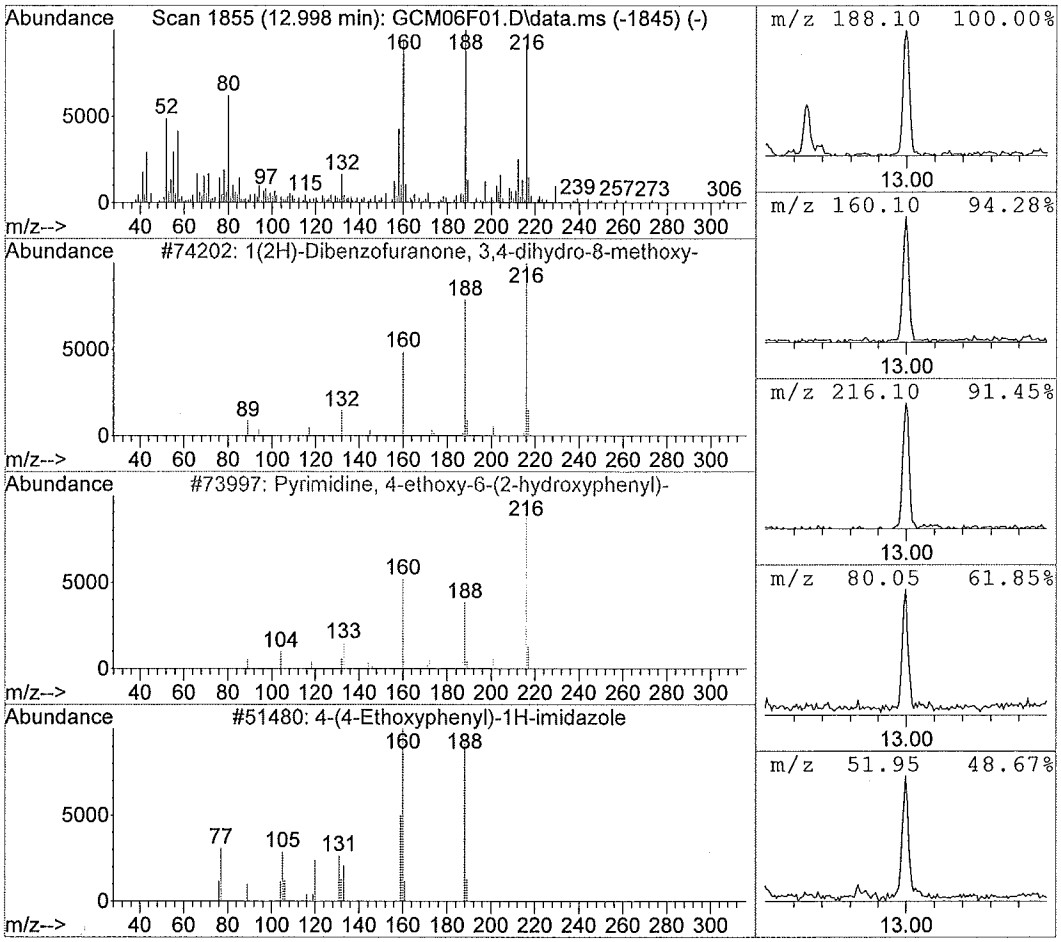
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.00	2.59 ug/ml	396312	Phenanthrene-d10	3065451

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1(2H)-Dibenzofuranone, 3,4-dihydro-	74202	095338-40-2	38.00
2	Pyrimidine, 4-ethoxy-6-(2-hydroxyph	73997	097630-78-9	22.00
3	4-(4-Ethoxyphenyl)-1H-imidazole	51480	1000311-54-8	18.00
4	Chromium, tetracarbonyl[(1,2,5,6-.e	120425	012301-34-7	16.00
5	1,3-Benzodioxole, 5-(2-cyclohexenon	74200	042866-84-2	12.00



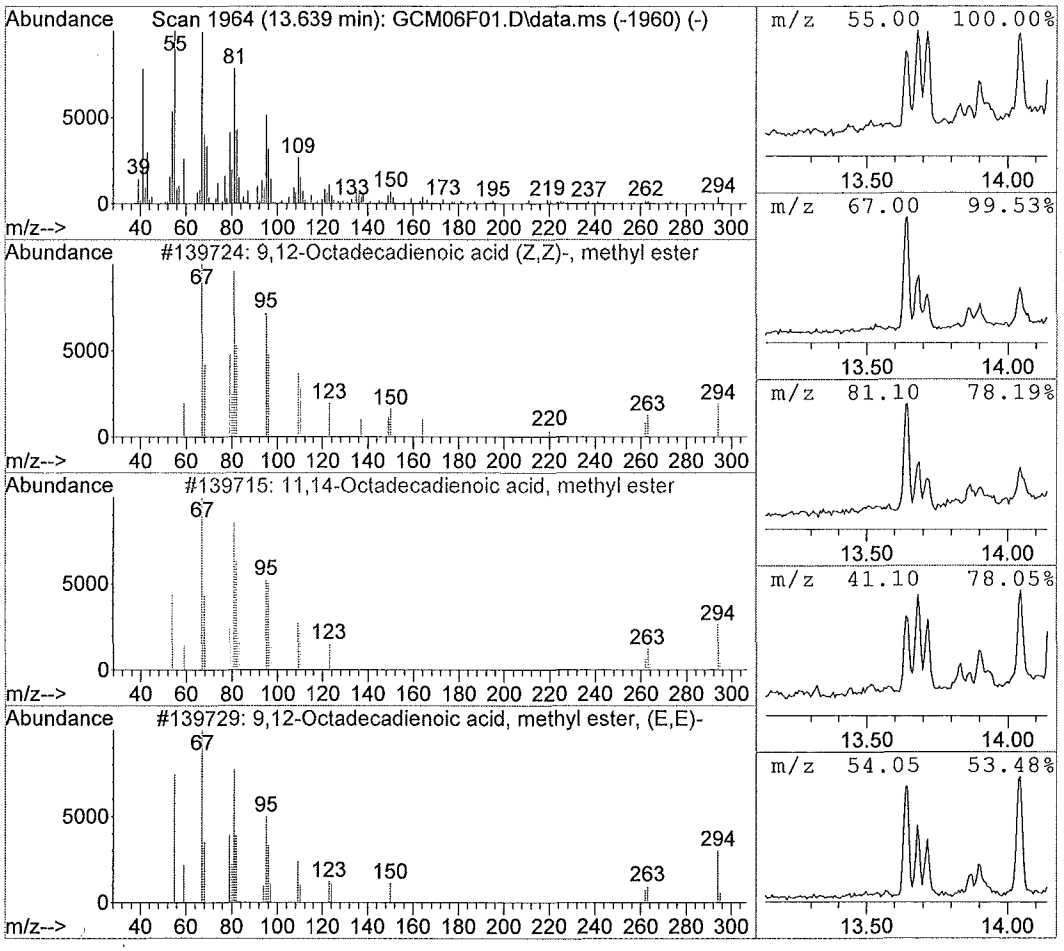
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.64	2.10 ug/ml	476617	Chrysene-d12	4539424

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9,12-Octadecadienoic acid (Z,Z)-, m	139724	000112-63-0	99.00
2	11,14-Octadecadienoic acid, methyl	139715	056554-61-1	96.00
3	9,12-Octadecadienoic acid, methyl e	139729	002566-97-4	96.00
4	9,12-Octadecadienoic acid, methyl e	139708	002462-85-3	95.00
5	Methyl 10-trans,12-cis-octadecadien	139709	1000336-44-2	94.00



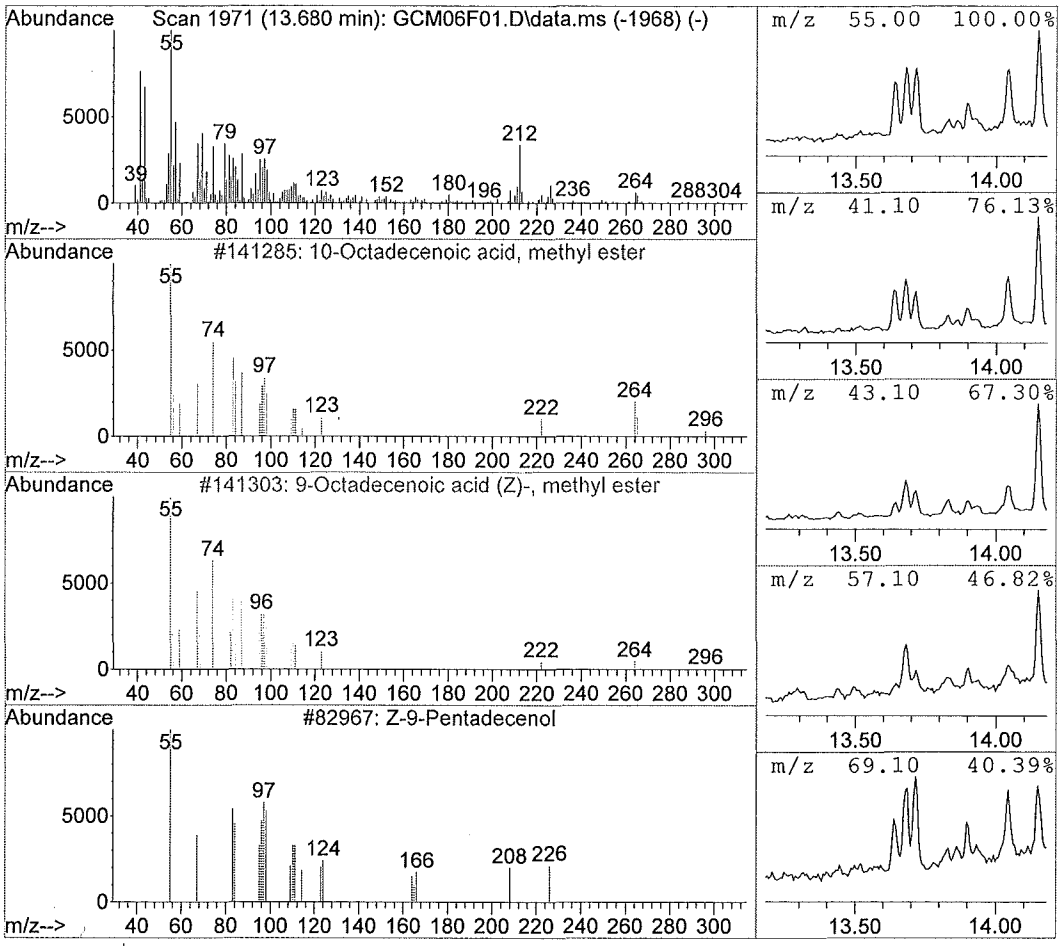
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.68	2.93 ug/ml	664173	Chrysene-d12	4539424

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	10-Octadecenoic acid, methyl ester	141285	013481-95-3	97.00
2	9-Octadecenoic acid (Z)-, methyl es	141303	000112-62-9	96.00
3	Z-9-Pentadecenol	82967	1000130-76-9	86.00
4	cis-13-Octadecenoic acid, methyl es	141299	1000333-58-3	70.00
5	trans-13-Octadecenoic acid, methyl	141314	1000333-61-3	64.00



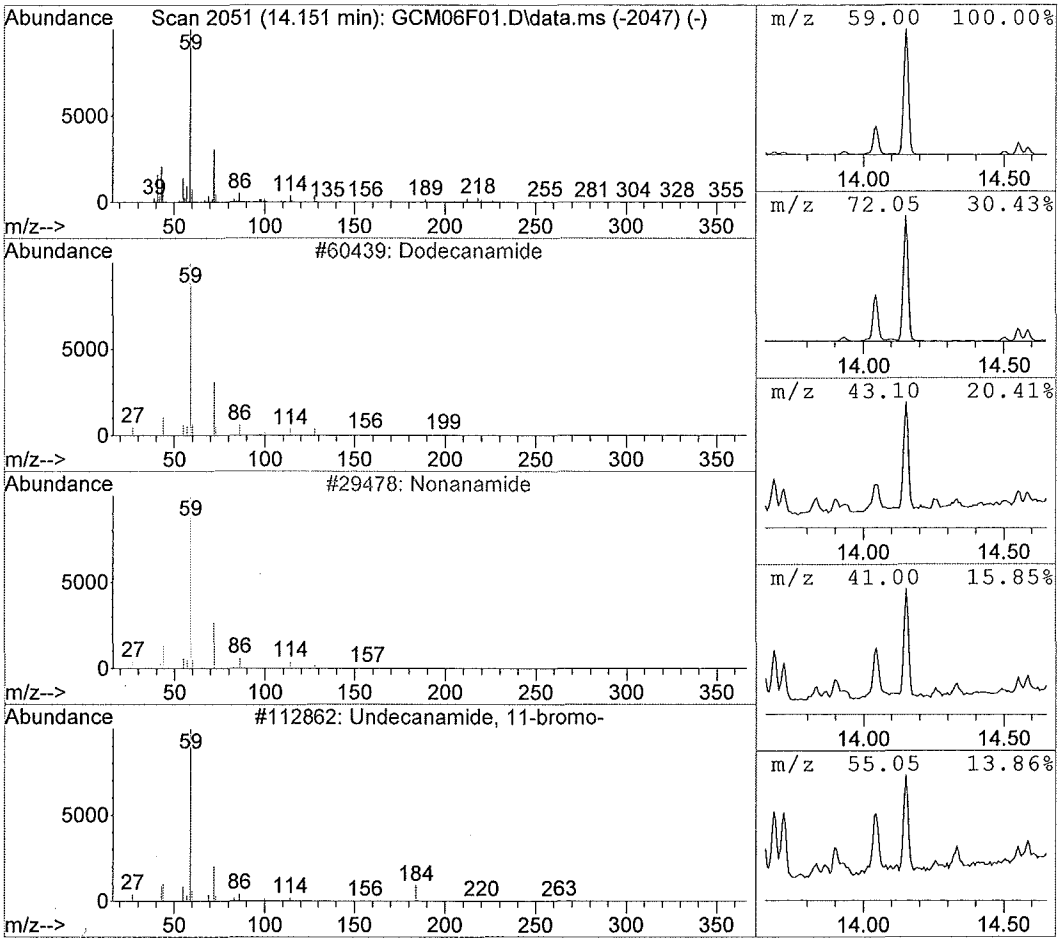
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.15	6.43 ug/ml	1458443	Chrysene-d12	4539424

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Nonanamide	29478	001120-07-6	78.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	72.00
4	Decanamide-	38977	002319-29-1	64.00
5	Pentanamide	4064	000626-97-1	64.00



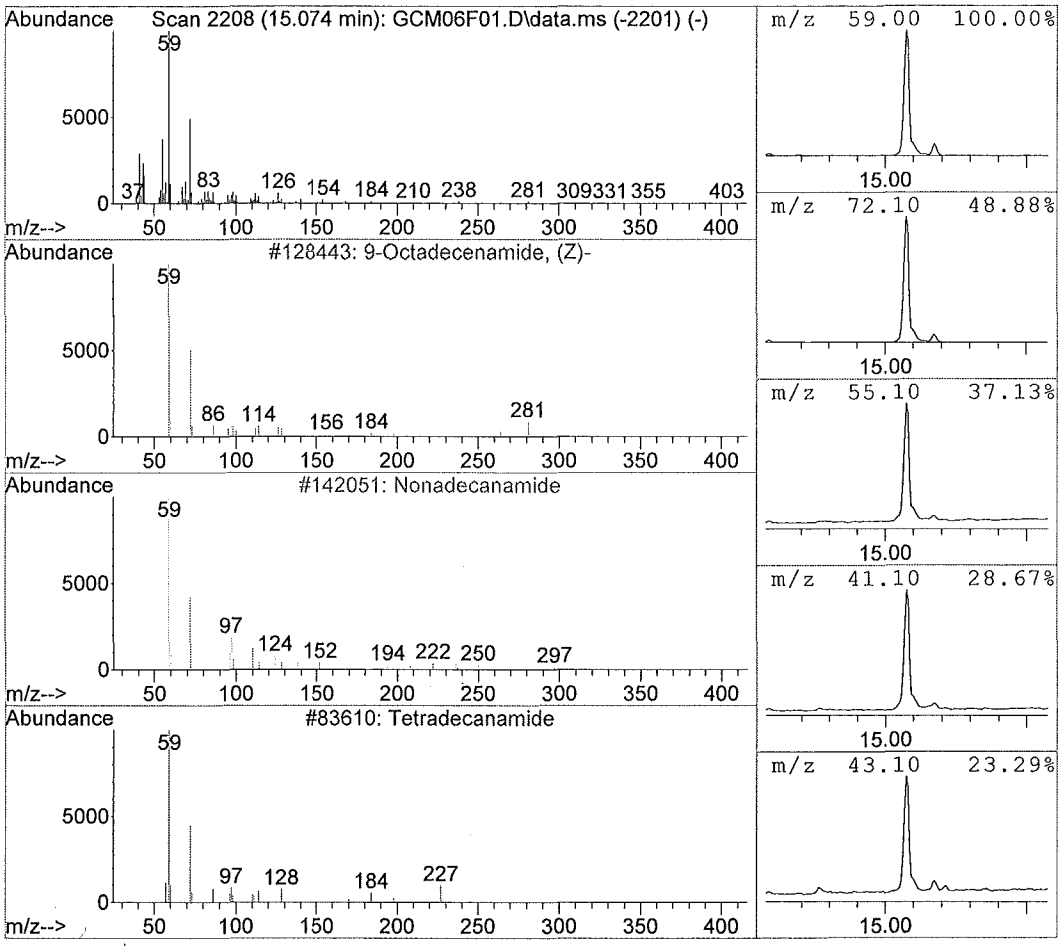
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.07	39.82 ug/ml	9038436	Chrysene-d12	4539424

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	94.00
2	Nonadecanamide	142051	058185-32-3	64.00
3	Tetradecanamide	83610	000638-58-4	64.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	56.00
5	Hexadecanamide	106565	000629-54-9	56.00



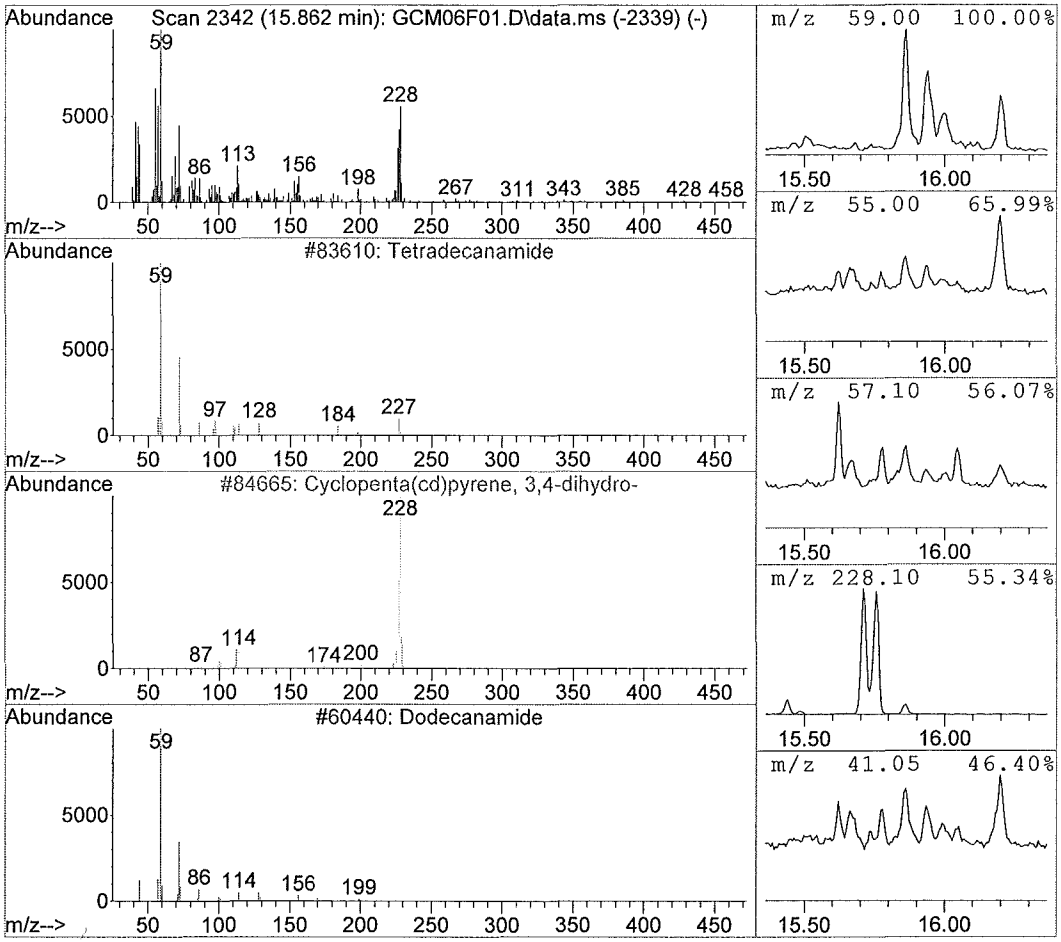
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.86	2.59 ug/ml	587928	Chrysene-d12	4539424

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83610	000638-58-4	78.00
2	Cyclopenta(cd)pyrene, 3,4-dihydro-	84665	025732-74-5	64.00
3	Dodecanamide	60440	001120-16-7	46.00
4	7-Nonenamide	28131	090949-53-4	41.00
5	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	35.00



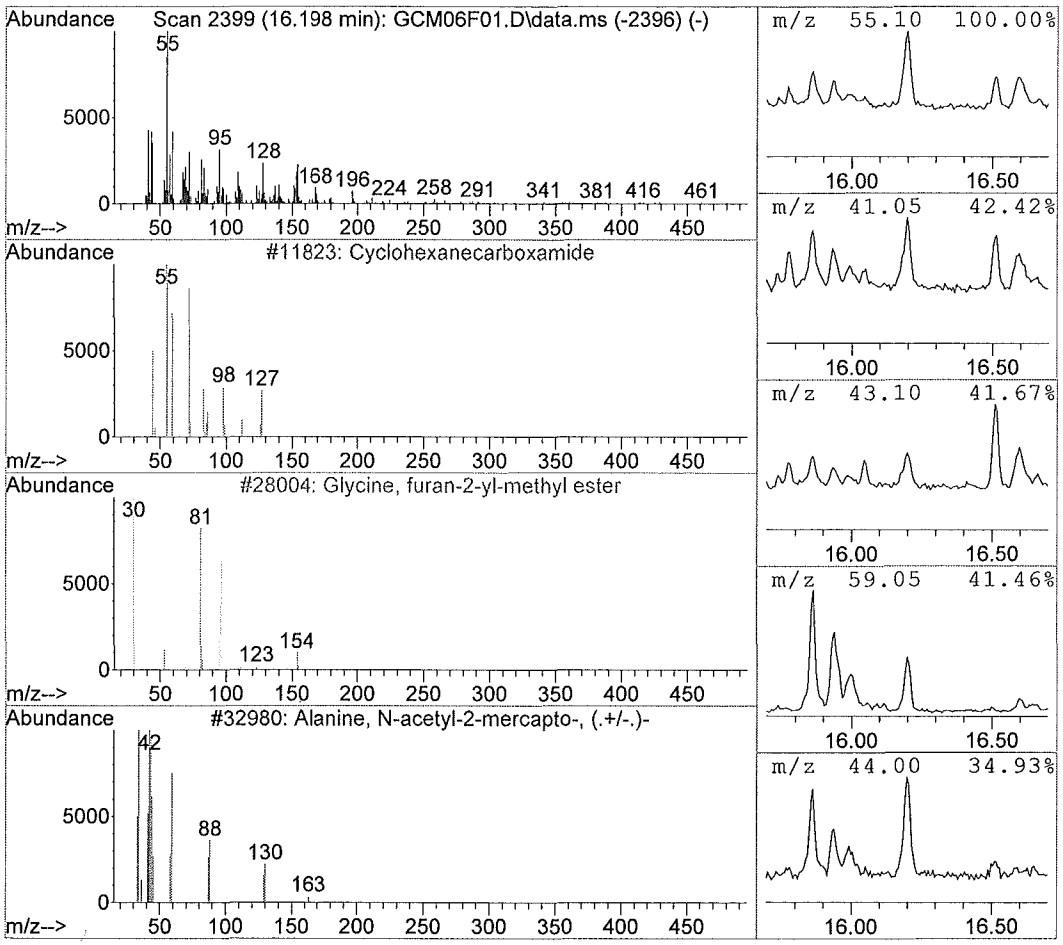
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.20	3.65 ug/ml	828263	Chrysene-d12	4539424

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexanecarboxamide	11823	001122-56-1	22.00
2	Glycine, furan-2-yl-methyl ester	28004	1000306-78-7	9.00
3	Alanine, N-acetyl-2-mercapto-, (.+/	32980	055956-23-5	9.00
4	Chol-23-ene, (5.beta.)-	168005	054411-82-4	9.00
5	1,10-Cycloeicosanedione	151447	014113-56-5	9.00



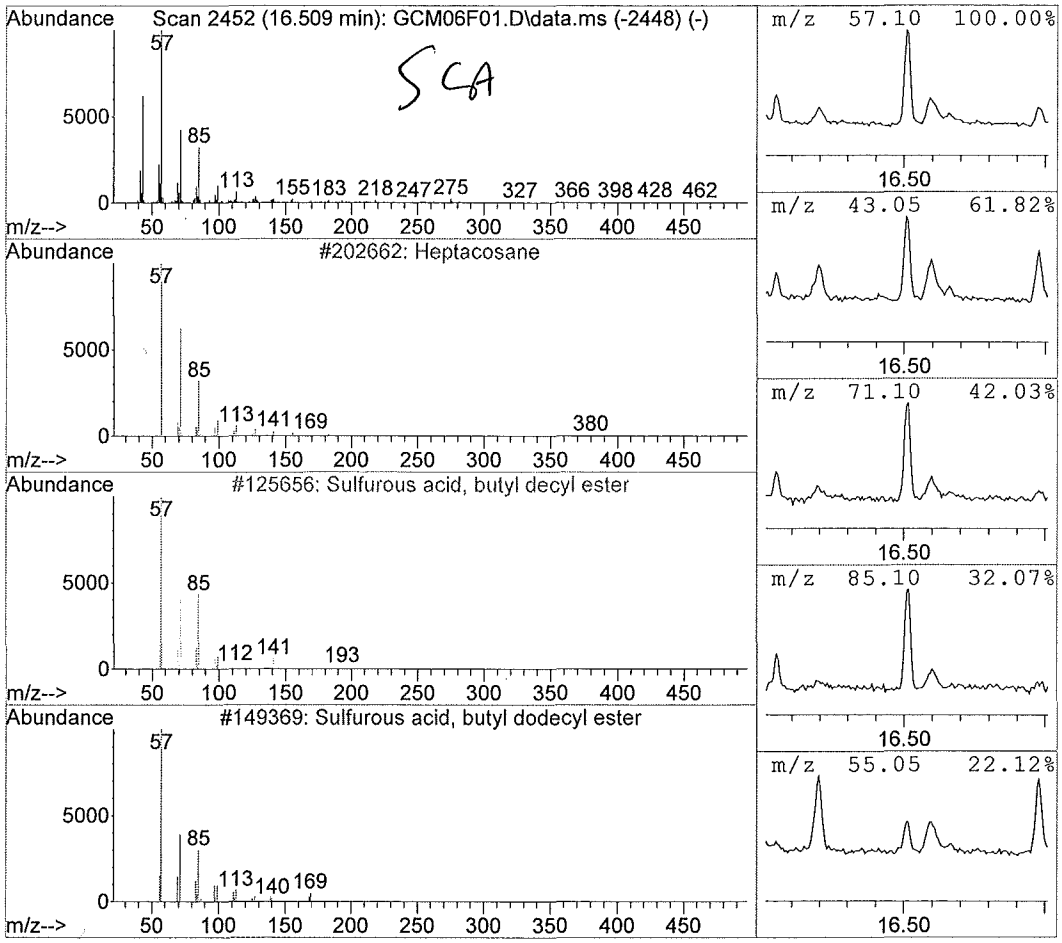
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.51	3.35 ug/ml	760344	Chrysene-d12	4539424

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	95.00
2	Sulfurous acid, butyl decyl ester	125656	1000309-17-7	87.00
3	Sulfurous acid, butyl dodecyl ester	149369	1000309-17-9	86.00
4	Heptadecane, 9-octyl-	185535	007225-64-1	83.00
5	3,5-Dimethyldodecane	59888	107770-99-0	81.00



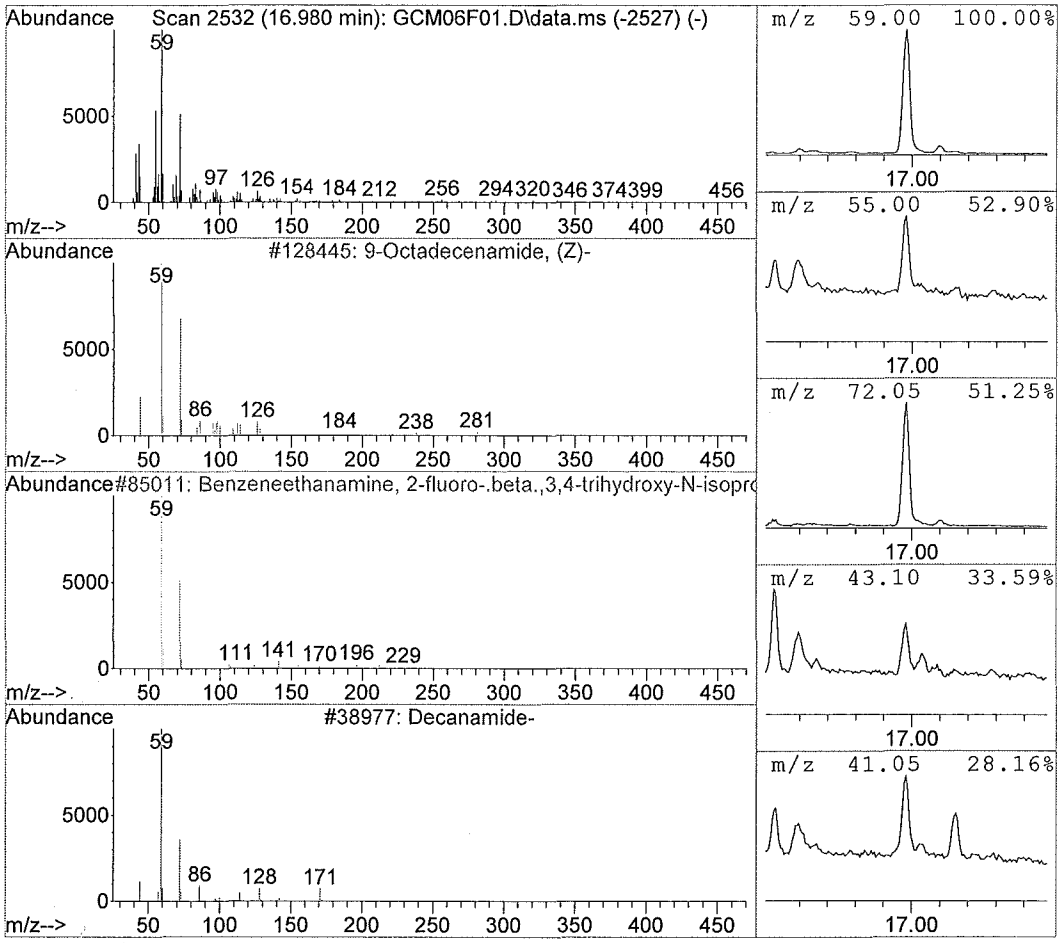
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.98	7.85 ug/ml	1047343	Perylene-d12	2669621

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	70.00
2	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	64.00
3	Decanamide-	38977	002319-29-1	56.00
4	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	56.00
5	Nonanamide	29478	001120-07-6	53.00



Library Search Compound Report

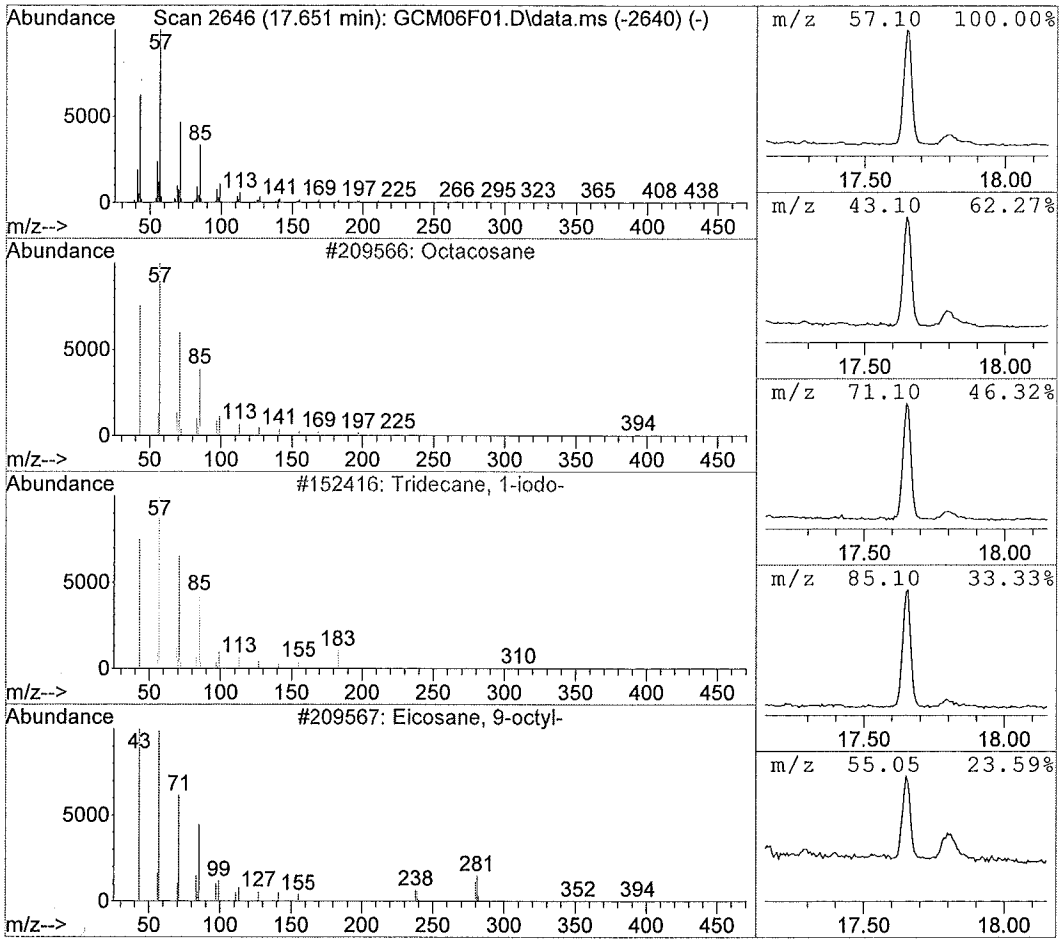
Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.65	18.21 ug/ml	2430601	Perylene-d12	2669621

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octacosane	209566	000630-02-4	87.00
2	Tridecane, 1-iodo-	152416	035599-77-0	87.00
3	Eicosane, 9-octyl-	209567	013475-77-9	83.00
4	Nonadecane, 9-methyl-	129502	013287-24-6	80.00
5	Tridecane, 7-hexyl-	117640	007225-66-3	80.00

SCA



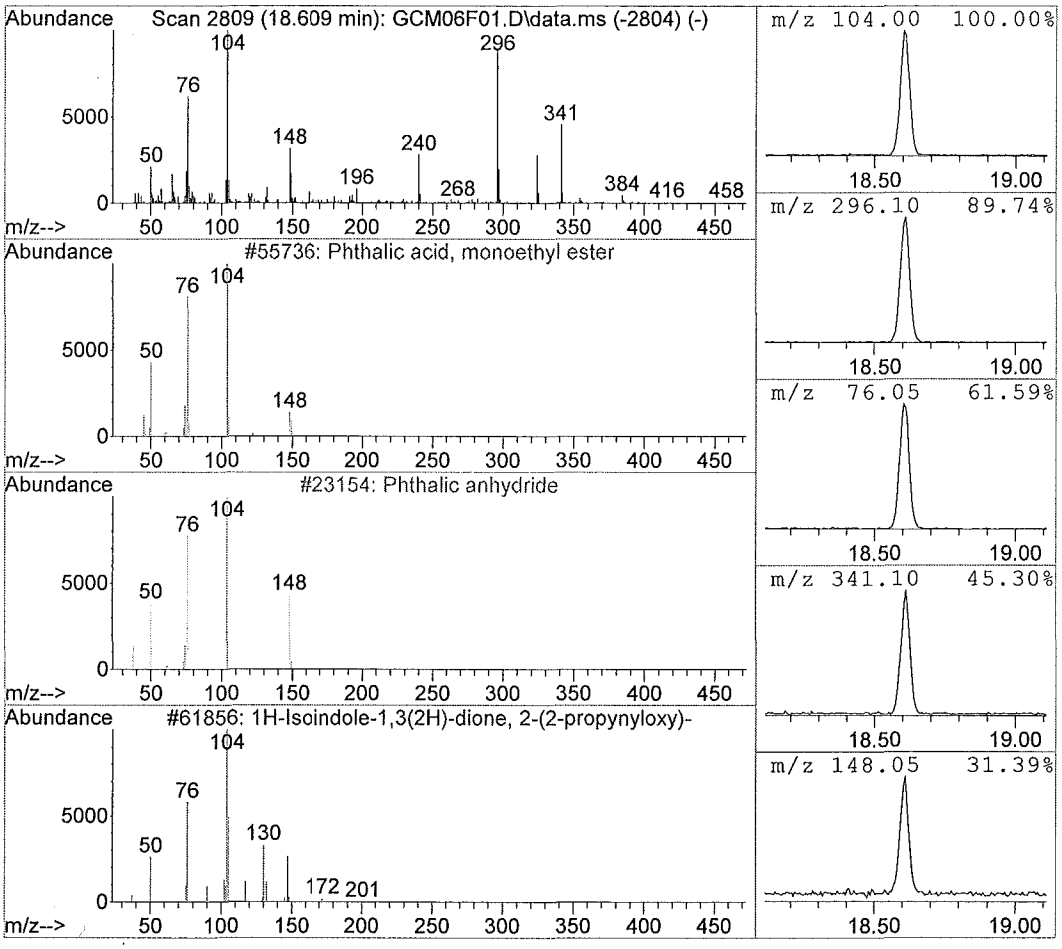
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.61	7.71 ug/ml	1028945	Perylene-d12	2669621

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic acid, monoethyl ester	55736	002306-33-4	27.00
2	Phthalic anhydride	23154	000085-44-9	27.00
3	1H-Isoindole-1,3(2H)-dione, 2-(2-pr	61856	004616-63-1	22.00
4	1,3,5-Triphenylpyrazole	141410	002183-27-9	14.00
5	2-(2-Quinolyl)(1,2,4)triazolo(1,5-a	141220	1000241-15-8	14.00



Library Search Compound Report

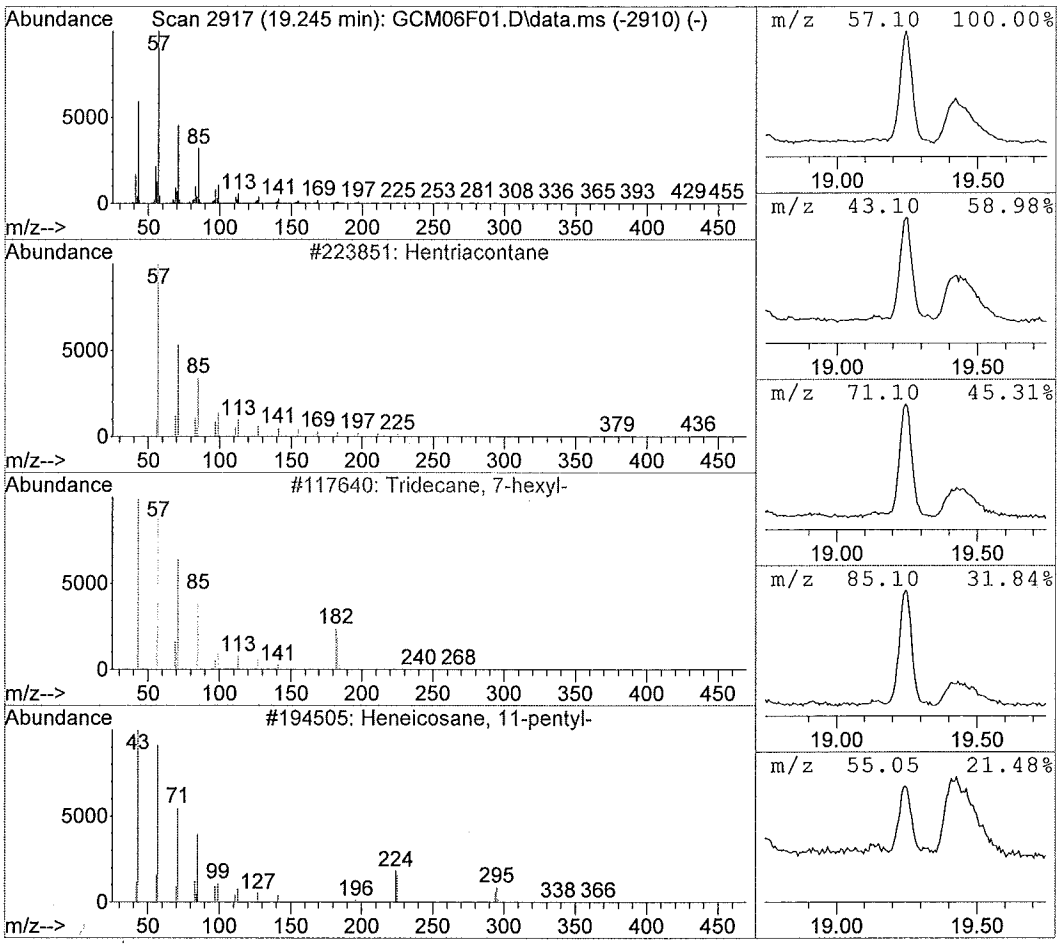
Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.24	13.18 ug/ml	1759323	Perylene-d12	2669621

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hentriacontane	223851	000630-04-6	94.00
2	Tridecane, 7-hexyl-	117640	007225-66-3	87.00
3	Heneicosane, 11-pentyl-	194505	014739-72-1	87.00
4	Hexacosane	194493	000630-01-3	87.00
5	Tetracosane	175557	000646-31-1	86.00

SCA



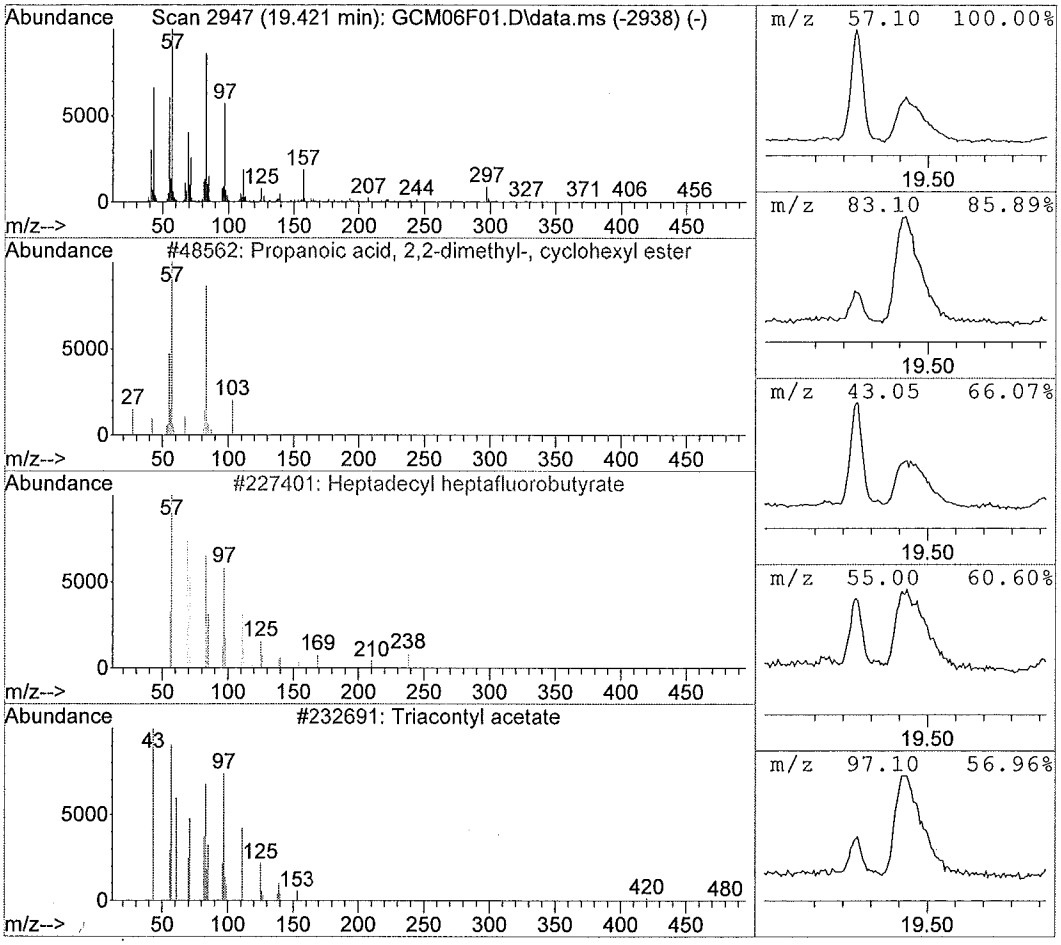
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM06F01.D Vial: 13
Acq On : 07/06/2015 17:23 Operator: TJM
Sample : 1514293001 F9L58 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.42	27.93 ug/ml	3727611	Perylene-d12	2669621

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propanoic acid, 2,2-dimethyl-, cycl	48562	029878-49-7	46.00
2	Heptadecyl heptafluorobutyrate	227401	959085-66-6	38.00
3	Triacontyl acetate	232691	041755-58-2	38.00
4	Cyclohexane, butyl-	17969	001678-93-9	38.00
5	Hexacosyl heptafluorobutyrate	240356	1000351-83-3	38.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.:

F9L59

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293002

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCM07F02

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/06/2015

GPC Cleanup: (Y/N) Y pH: 6.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	200	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: F9L59

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293002
Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCM07F02
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/06/2015
GPC Cleanup: (Y/N) Y pH: 6.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	31.	J
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: F9L59

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293002

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCM07F02

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/06/2015

GPC Cleanup: (Y/N) Y pH: 6.8 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	814-78-8	3-Buten-2-one, 3-methyl-	2.20	83.	JN
02		Unknown 1,3-Dioxolane, 2,2-dimethyl-	2.30	110	J
03		Unknown 1,2-Ethanediol	2.35	270	J
04		Unknown Methacrylamide	2.81	160	J
05		Unknown 2-Pentanone, 4-hydroxy-	3.30	170	J
06		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.50	6500	J
07		Unknown 1H-Pyrrole-2,5-dione	4.28	370	J
08		Unknown Ethanol, 2-(2-ethoxyethoxy)-	4.69	110	J
09		Unknown Pyrazinamide	6.63	82.	J
10		Unknown Propanoic acid, 2-methyl-, 1-(1,1-dimeth	9.66	79.	J
11	57-10-3	n-Hexadecanoic acid	12.66	140	JN
12		Unknown Undecanamide, 11-bromo-	12.76	130	J
13		Unknown 1(2H)-Dibenzofuranone, 3,4-dihydro-8-met	12.99	100	J
14	1120-16-7	Dodecanamide	14.15	400	JN
15	301-02-0	9-Octadecenamide, (Z)-	15.07	2900	JNB
16	629-54-9	Hexadecanamide	15.17	160	JN
17		Unknown 7-Nonenamide	15.86	150	J
18		Unknown 7-Nonenamide	15.93	100	J
19		Unknown 4,4-Dimethyl-oct-5-enal	16.20	220	J
20	301-02-0	9-Octadecenamide, (Z)-	16.97	470	JN
21		Unknown Phthalic acid, monoethyl ester	18.62	1800	J
22		Unknown Palmitic acid vinyl ester	21.39	620	J
23		Unknown Phthalic anhydride	23.32	1800	J
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	930	J

[2] EPA-designated Registry Number.

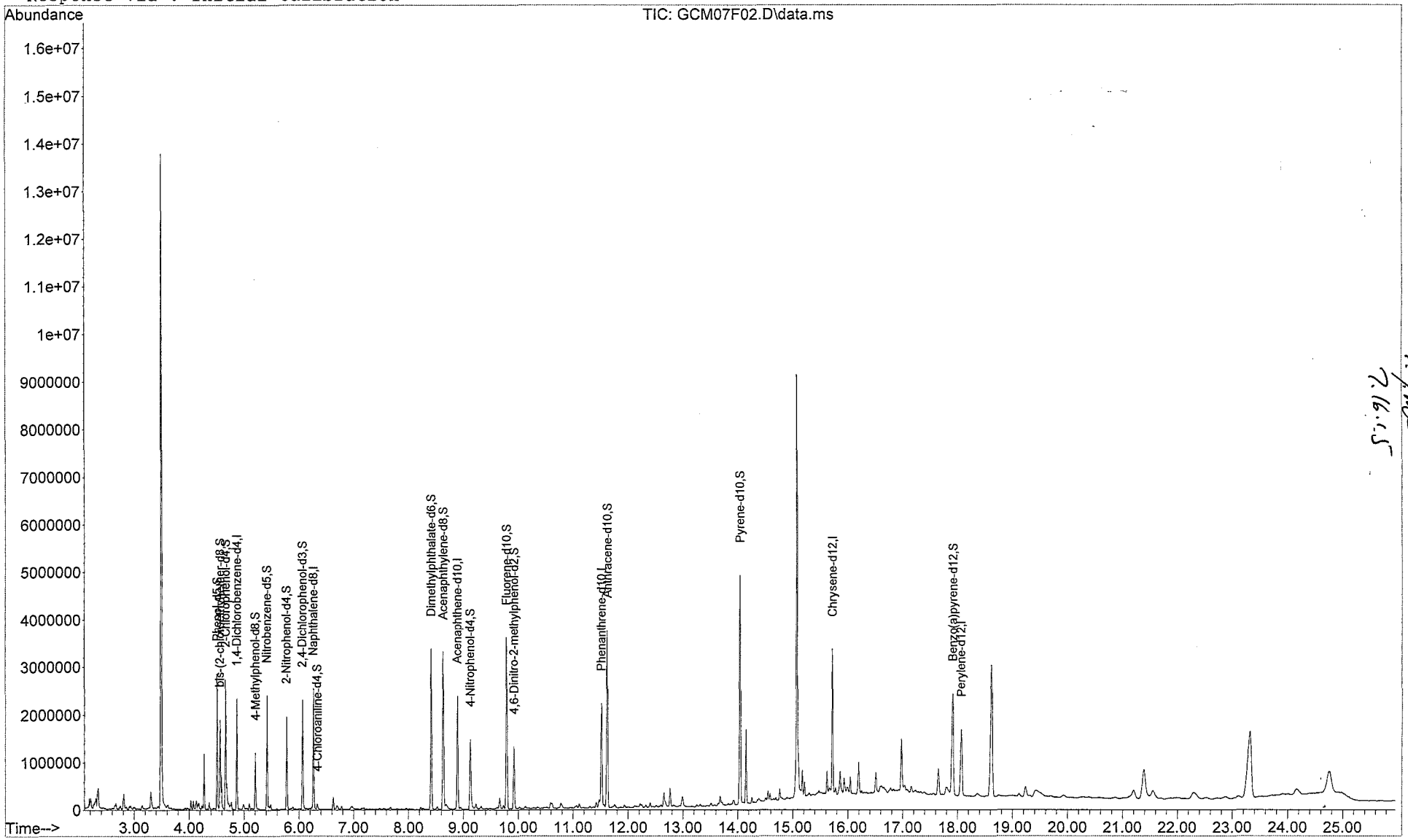
Quantitation Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D
Acq On : 07/06/2015 17:55
Sample : 1514293002 F9L59
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 14
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 15 14:12:36 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 15 14:12:36 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	314791	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1193583	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	730622	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1246366	20.00 ug/ml
73) Chrysene-d12	15.72	240	1251508	20.00 ug/ml
81) Perylene-d12	18.07	264	996787	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	779219	28.445ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	465333	21.797ug/mL
7) 2-Chlorophenol-d4	4.66	132	603320	26.085ug/ml
13) 4-Methylphenol-d8	5.20	113	238408	13.012ug/mL
17) Nitrobenzene-d5	5.42	128	265976	25.366ug/ml
21) 2-Nitrophenol-d4	5.77	143	312060	28.157ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	506470	29.348ug/mL
28) 4-Chloroaniline-d4	6.33	131	41487	2.202ug/mL
42) Dimethylphthalate-d6	8.42	166	1659499	36.222ug/mL
45) Acenaphthylene-d8	8.63	160	1974009	31.705ug/mL
50) 4-Nitrophenol-d4	9.13	143	306171	32.758ug/mL
57) Fluorene-d10	9.79	176	1374539	35.131ug/mL
61) 4,6-Dinitro-2-methylphenol	9.92	200	218308	24.677ug/mL
69) Anthracene-d10	11.62	188	2236621	33.839ug/mL
75) Pyrene-d10	14.04	212	2204738	35.301ug/mL
86) Benzo(a)pyrene-d12	17.92	264	1573125	32.935ug/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)

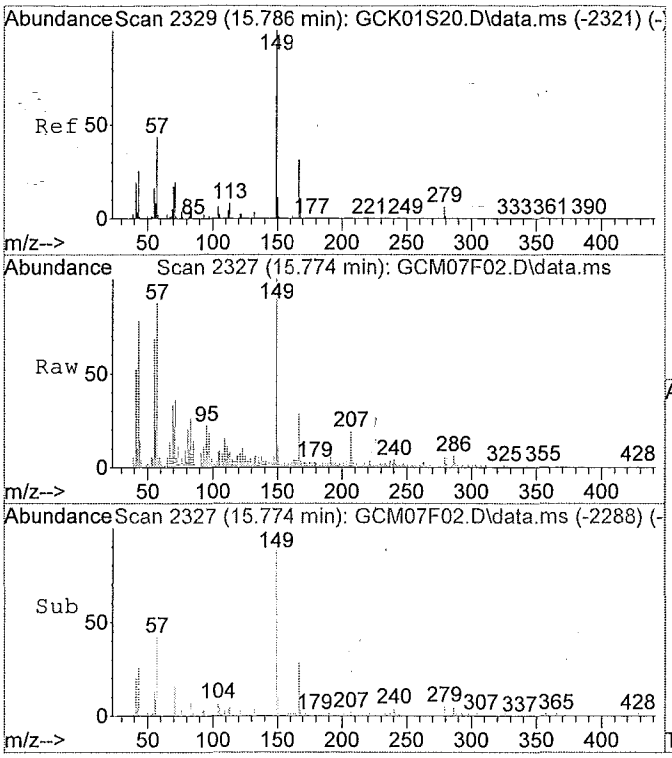
Quantitation Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 15 14:12:36 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 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	15.77	149	48876	0.790ug/ml	97
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	0.00	252		Not Detected	
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	0.00	252		Not Detected	
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

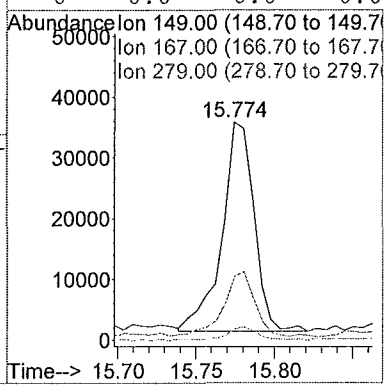
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#80
Bis-(2-ethylhexyl)phthalate
Concen: 0.79 ug/ml
RT: 15.77 min Scan# 2327
Delta R.T. -0.07 min
Lab File: GCM07F02.D
Acq: 07/06/2015 17:55

Tgt Ion:149 Resp: 48876

Ion	Ratio	Lower	Upper
149	100		
167	29.7	22.0	40.8
279	6.0	5.0	9.2
0	0.0	0.0	0.0



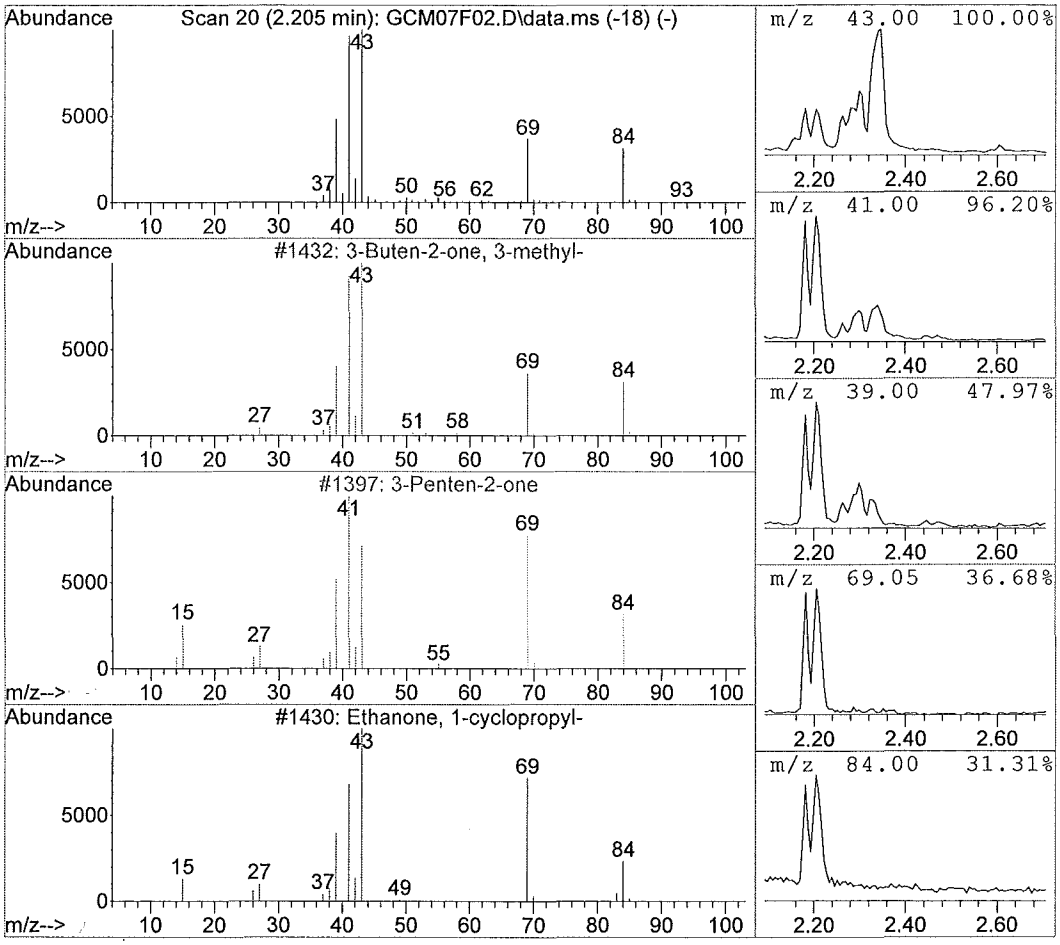
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.20	2.14 ug/ml	235690	1,4-Dichlorobenzene-d4	2207580

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Buten-2-one, 3-methyl-	1432	000814-78-8	91.00
2	3-Penten-2-one	1397	000625-33-2	80.00
3	Ethanone, 1-cyclopropyl-	1430	000765-43-5	80.00
4	Propane, 1-nitro-	2166	000108-03-2	38.00
5	Cyclopropanecarboxaldehyde	550	001489-69-6	25.00



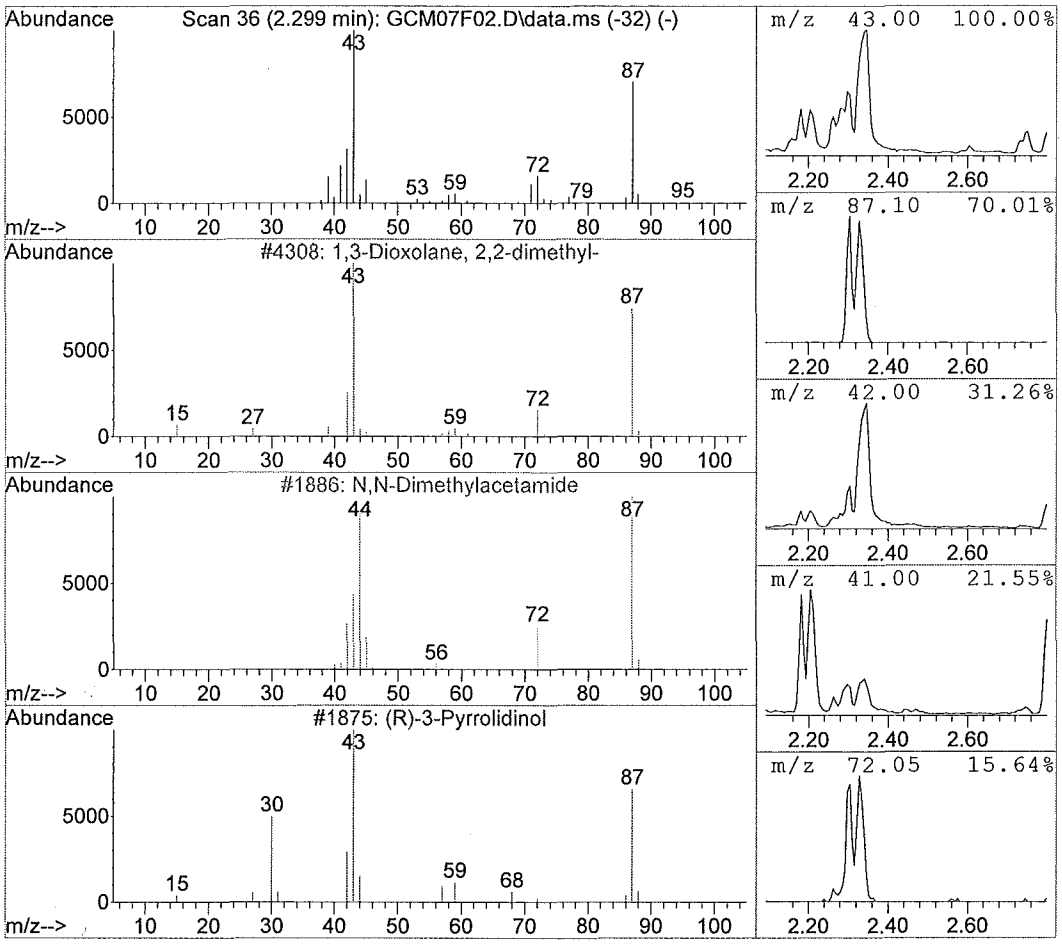
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.30	2.70 ug/ml	297785	1,4-Dichlorobenzene-d4	2207580

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Dioxolane, 2,2-dimethyl-	4308	002916-31-6	64.00
2	N,N-Dimethylacetamide	1886	000127-19-5	47.00
3	(R)-3-Pyrrolidinol	1875	002799-21-5	42.00
4	Acetamide, N-ethyl-	1877	000625-50-3	38.00
5	2-Pentanol, acetate	13419	000626-38-0	33.00



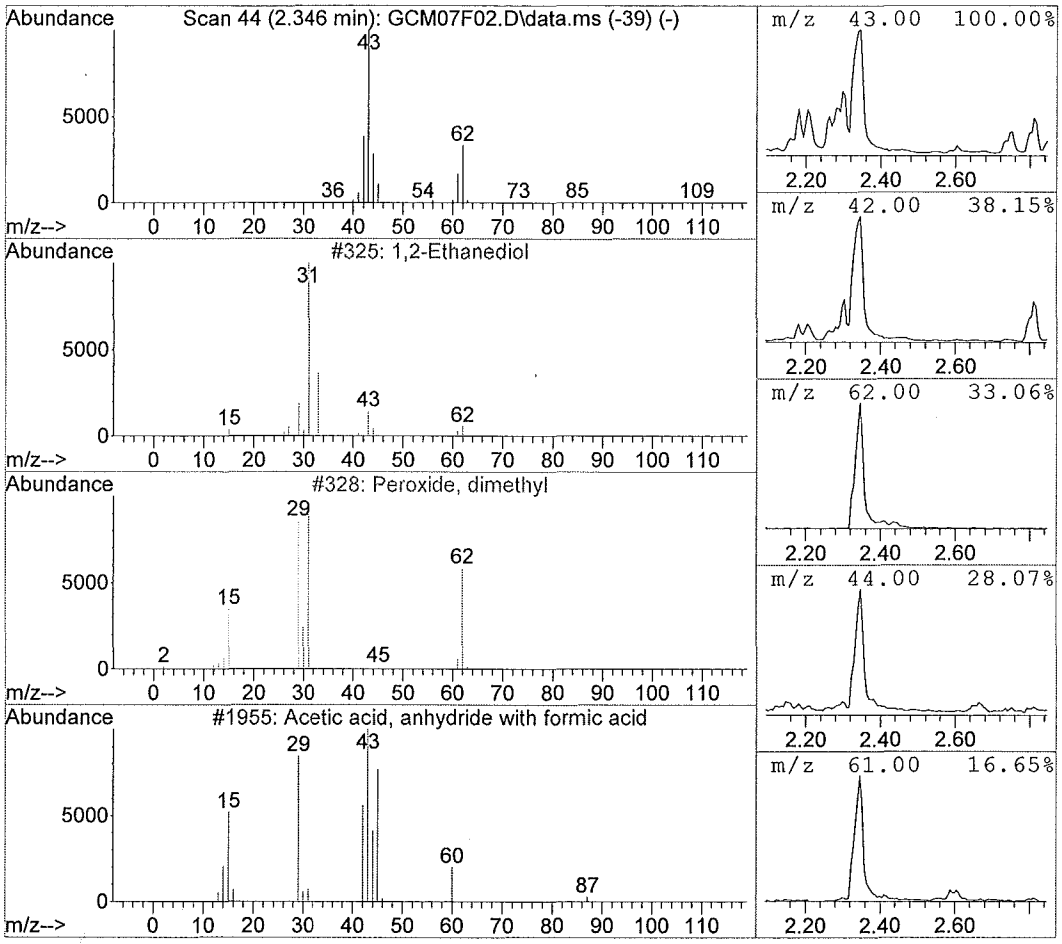
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.35	6.99 ug/ml	771924	1,4-Dichlorobenzene-d4	2207580

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Ethanediol	325	000107-21-1	42.00
2	Peroxide, dimethyl	328	000690-02-8	5.00
3	Acetic acid, anhydride with formic	1955	002258-42-6	4.00
4	Monoethanolamine	306	000141-43-5	3.00
5	5-Methyloxazolidine	1878	058328-22-6	2.00



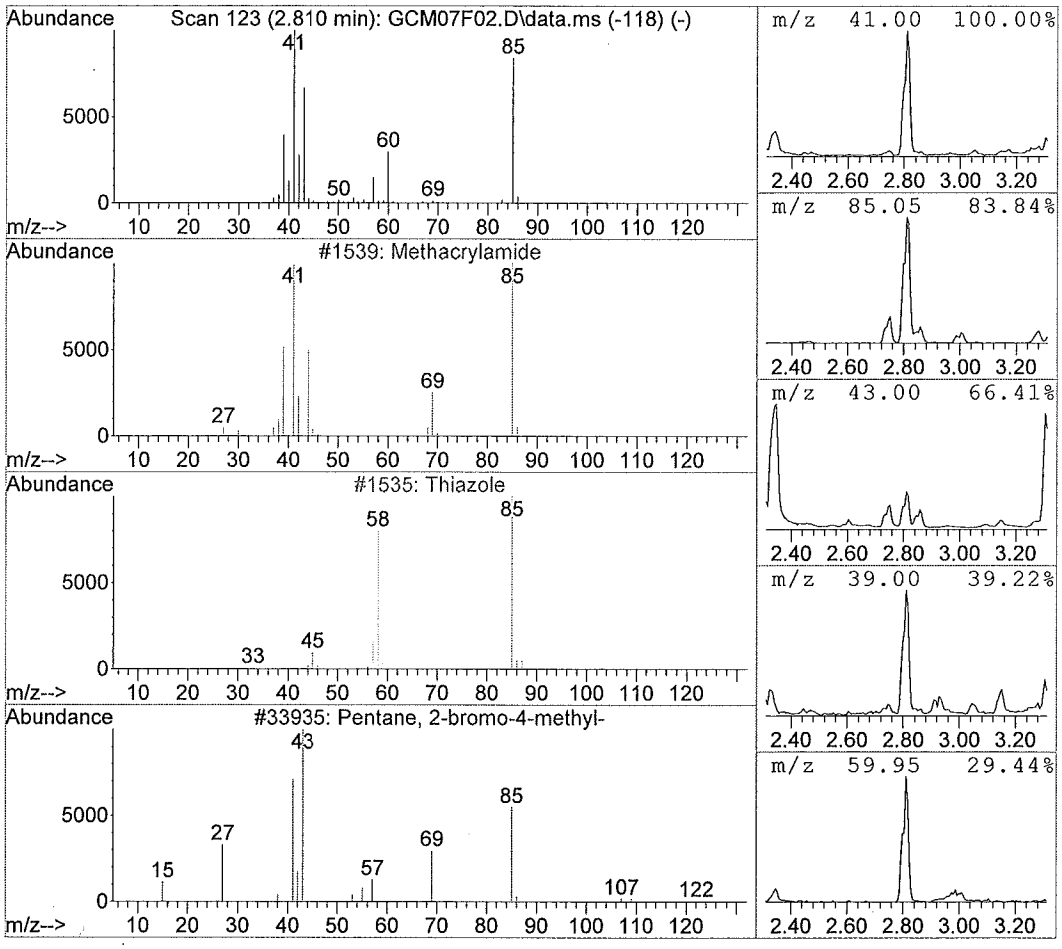
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.81	4.14 ug/ml	456540	1,4-Dichlorobenzene-d4	2207580

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methacrylamide	1539	000079-39-0	38.00
2	Thiazole	1535	000288-47-1	35.00
3	Pentane, 2-bromo-4-methyl-	33935	030310-22-6	33.00
4	4-Methyl-1,6-heptadien-4-ol	11412	025201-40-5	23.00
5	2-Pyrrolidinone	1544	000616-45-5	9.00



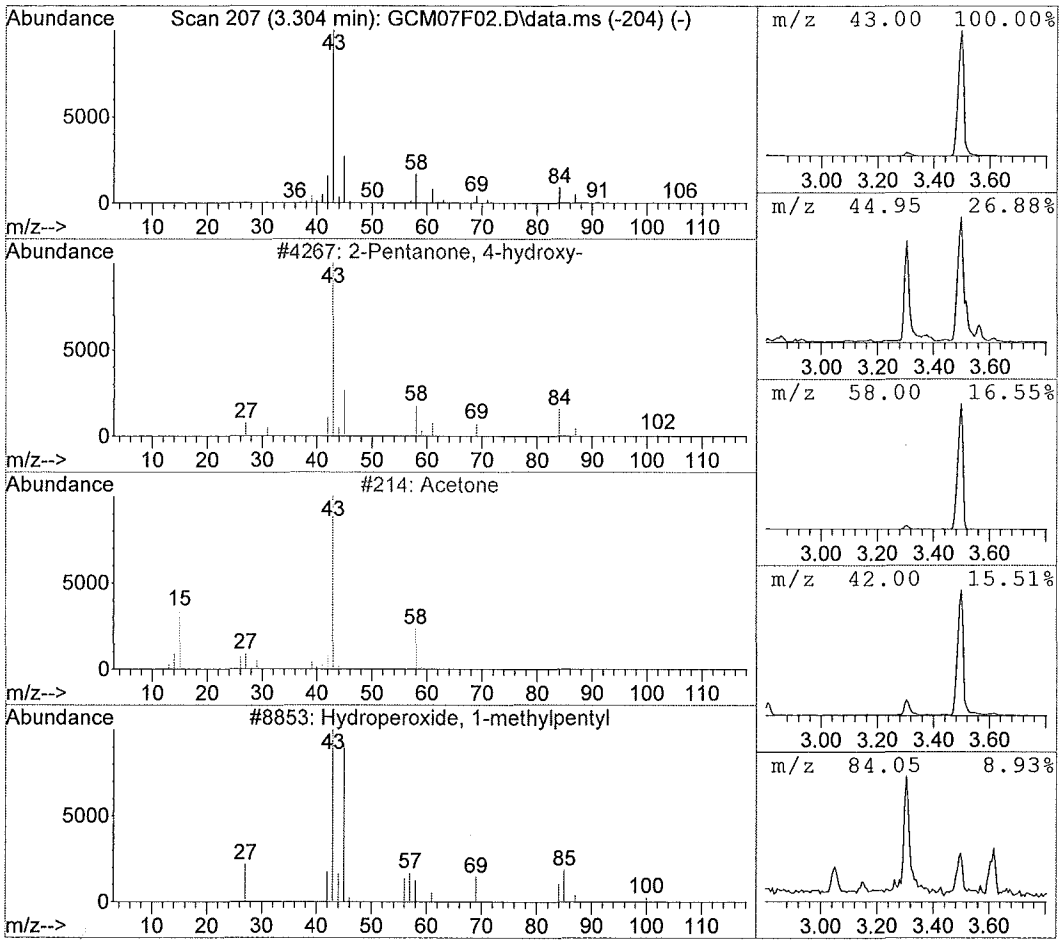
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.30	4.46 ug/ml	492572	1,4-Dichlorobenzene-d4	2207580

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	40.00
2	Acetone	214	000067-64-1	9.00
3	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	9.00
4	Isopropyl acetate	4253	000108-21-4	9.00
5	Butane	232	000106-97-8	7.00



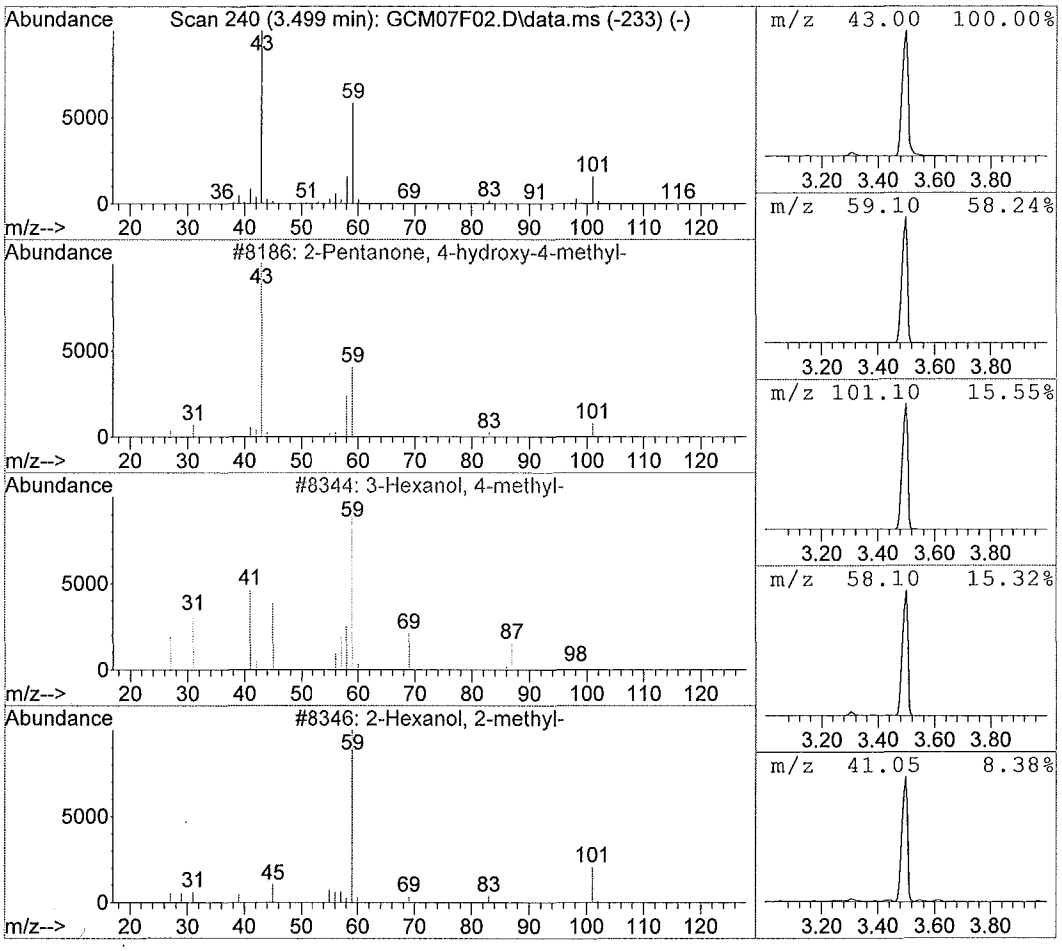
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.50	167.17 ug/ml	18452251	1,4-Dichlorobenzene-d4	2207580

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
2	3-Hexanol, 4-methyl-	8344	000615-29-2	33.00
3	2-Hexanol, 2-methyl-	8346	000625-23-0	28.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	23.00
5	2,3-Butanedione, monooxime	4030	000057-71-6	9.00



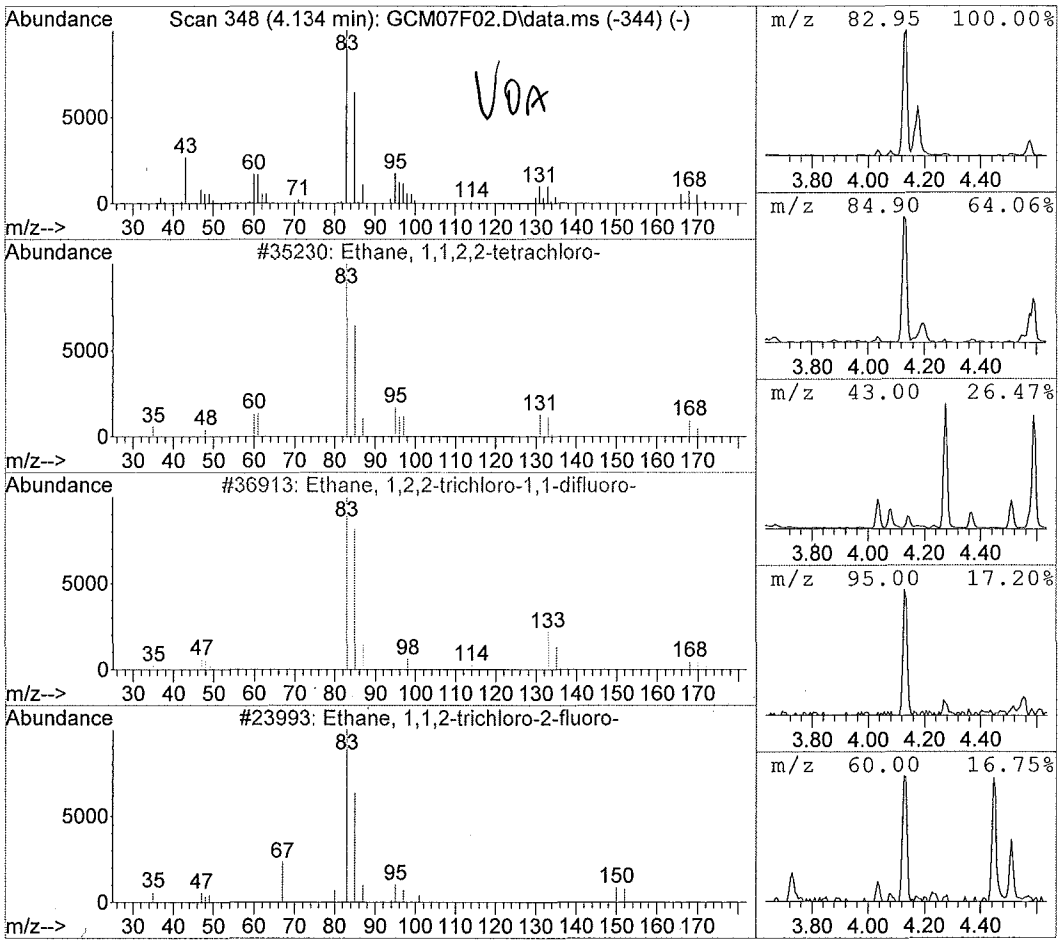
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.13	2.11 ug/ml	233282	1,4-Dichlorobenzene-d4	2207580

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	35230	000079-34-5	96.00
2	Ethane, 1,2,2-trichloro-1,1-difluor	36913	000354-21-2	70.00
3	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	64.00
4	Methane, bromodichloro-	32800	000075-27-4	53.00
5	Methane, dichloronitro-	13083	007119-89-3	50.00



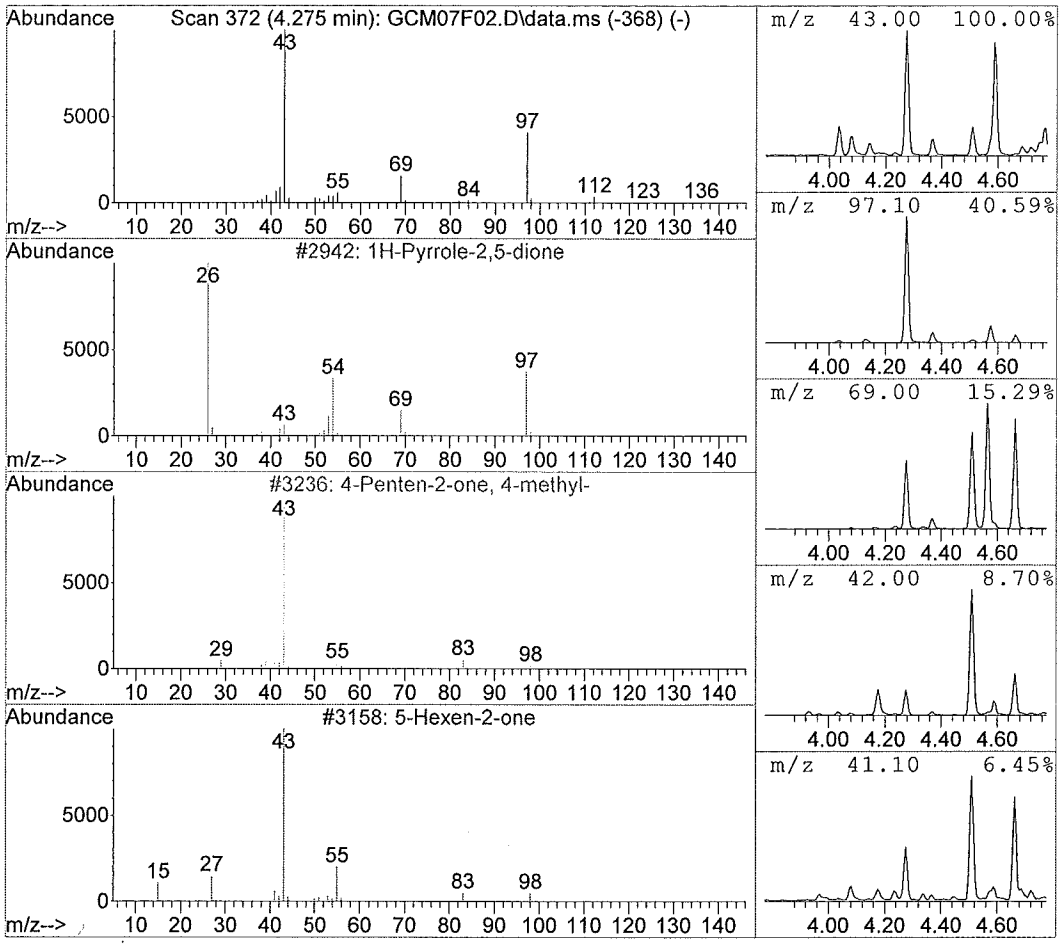
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.28	9.54 ug/ml	1053132	1,4-Dichlorobenzene-d4	2207580

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	38.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	5-Hexen-2-one	3158	000109-49-9	9.00
4	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00
5	2-Propyn-1-ol, acetate	3098	000627-09-8	5.00



Library Search Compound Report

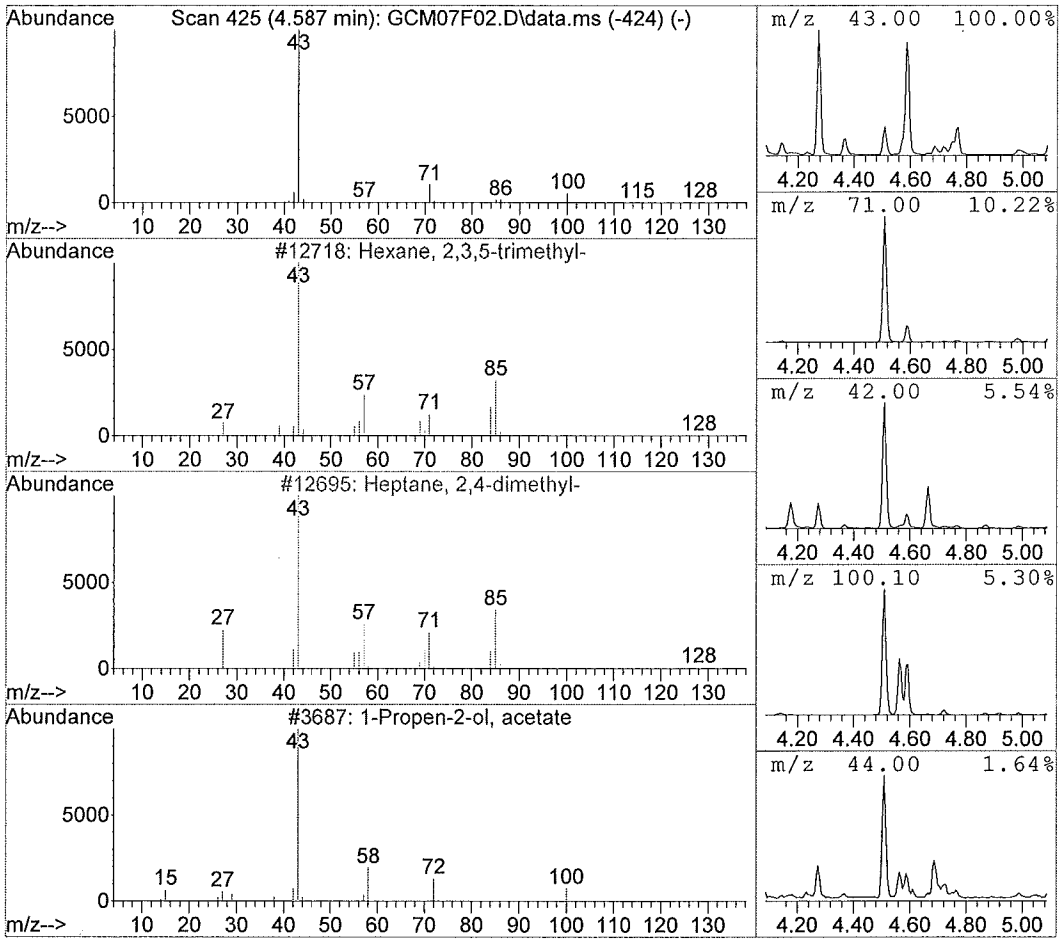
Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.59	5.13 ug/ml	566292	1,4-Dichlorobenzene-d4	2207580

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	5.00
2	Heptane, 2,4-dimethyl-	12695	002213-23-2	5.00
3	1-Propen-2-ol, acetate	3687	000108-22-5	5.00
4	Heptane, 2,3-dimethyl-	12694	003074-71-3	5.00
5	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00

BA



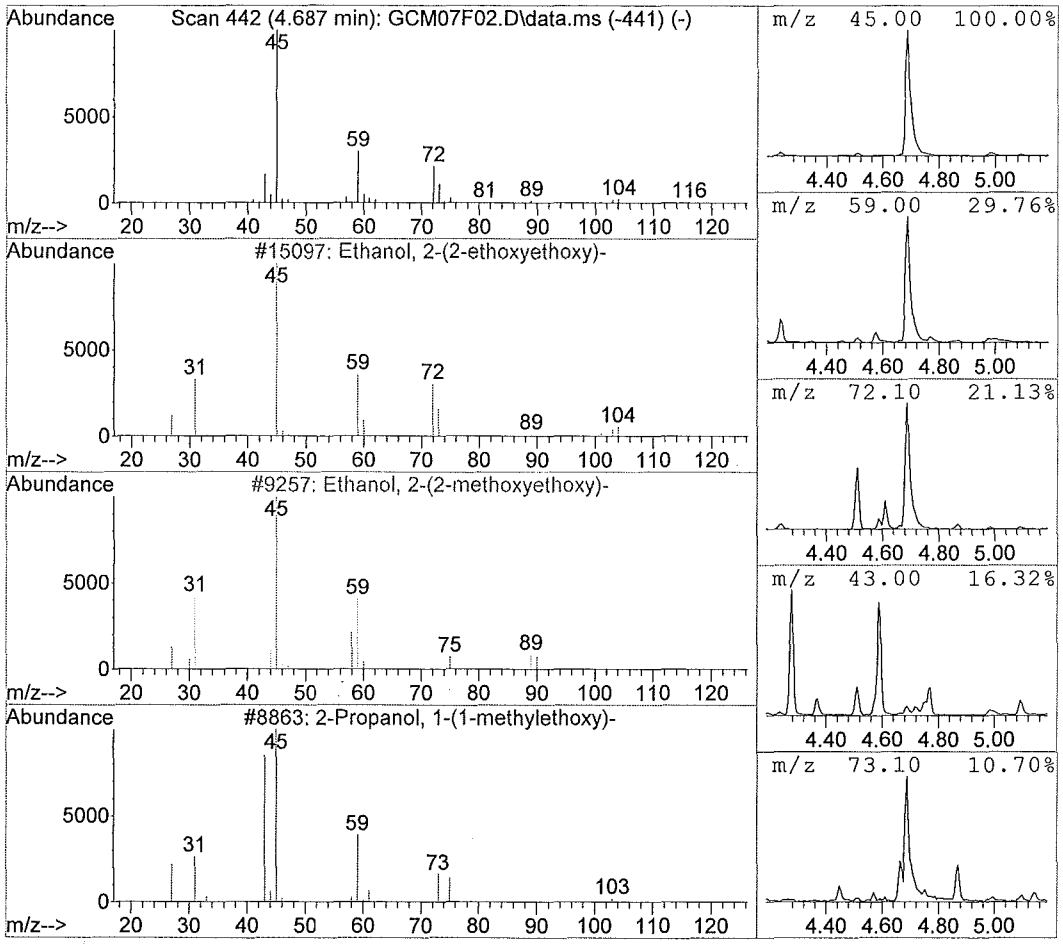
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.69	2.80 ug/ml	309364	1,4-Dichlorobenzene-d4	2207580

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanol, 2-(2-ethoxyethoxy)-	15097	000111-90-0	78.00
2	Ethanol, 2-(2-methoxyethoxy)-	9257	000111-77-3	45.00
3	2-Propanol, 1-(1-methylethoxy)-	8863	003944-36-3	38.00
4	Ethanol, 2-[2-(2-propenyloxy)ethoxy	21970	015075-50-0	33.00
5	Ethyl ether	841	000060-29-7	9.00



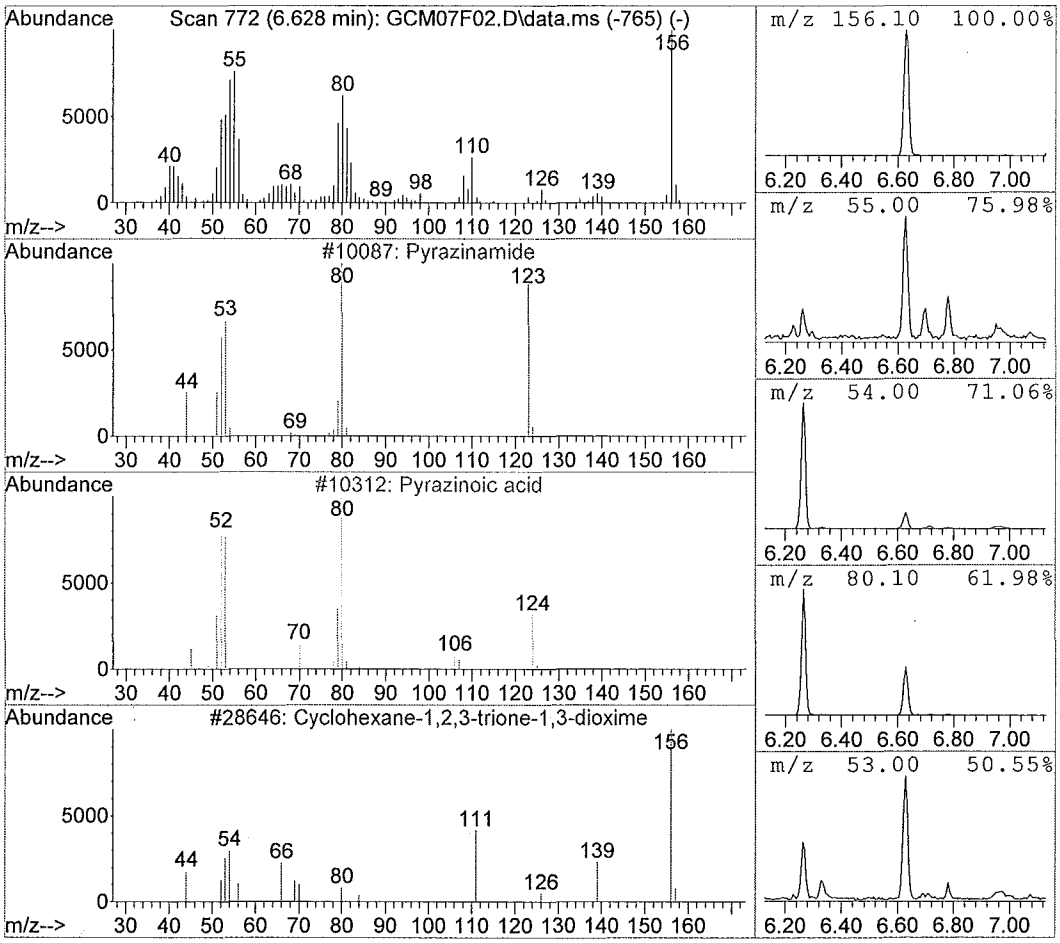
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.63	2.11 ug/ml	288210	Naphthalene-d8	2736829

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pyrazinamide	10087	000098-96-4	50.00
2	Pyrazinoic acid	10312	000098-97-5	47.00
3	Cyclohexane-1,2,3-trione-1,3-dioxim	28646	010528-54-8	40.00
4	.beta.-[3-[N-Aziridyl]propyl]aminop	26519	1000257-03-4	37.00
5	Propanenitrile, 3,3'-thiobis-	18255	000111-97-7	28.00



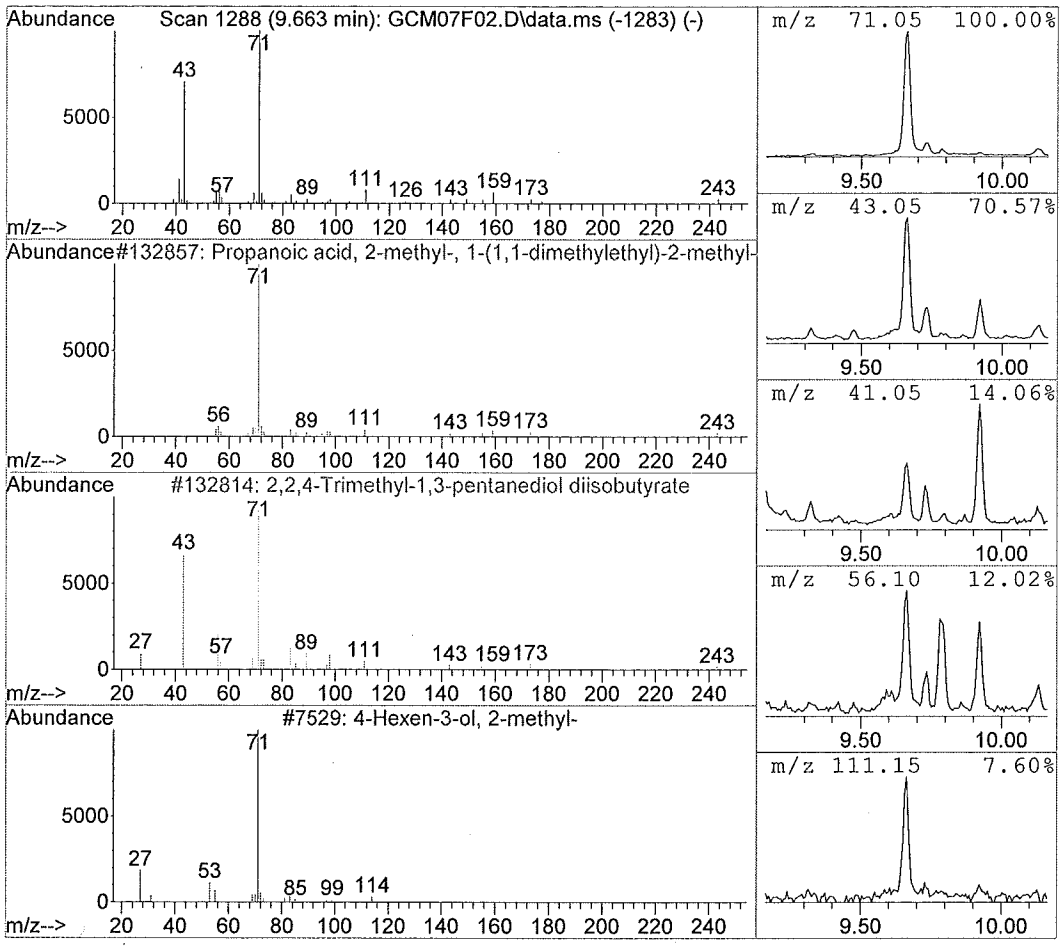
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.66	2.02 ug/ml	314609	Acenaphthene-d10	3120271

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propanoic acid, 2-methyl-, 1-(1,1-d	132857	074381-40-1	72.00
2	2,2,4-Trimethyl-1,3-pentanediol dii	132814	006846-50-0	56.00
3	4-Hexen-3-ol, 2-methyl-	7529	004798-60-1	53.00
4	Butanoic acid, 2-propenyl ester	12266	002051-78-7	53.00
5	Pentane, 3-bromo-	24071	001809-10-5	53.00



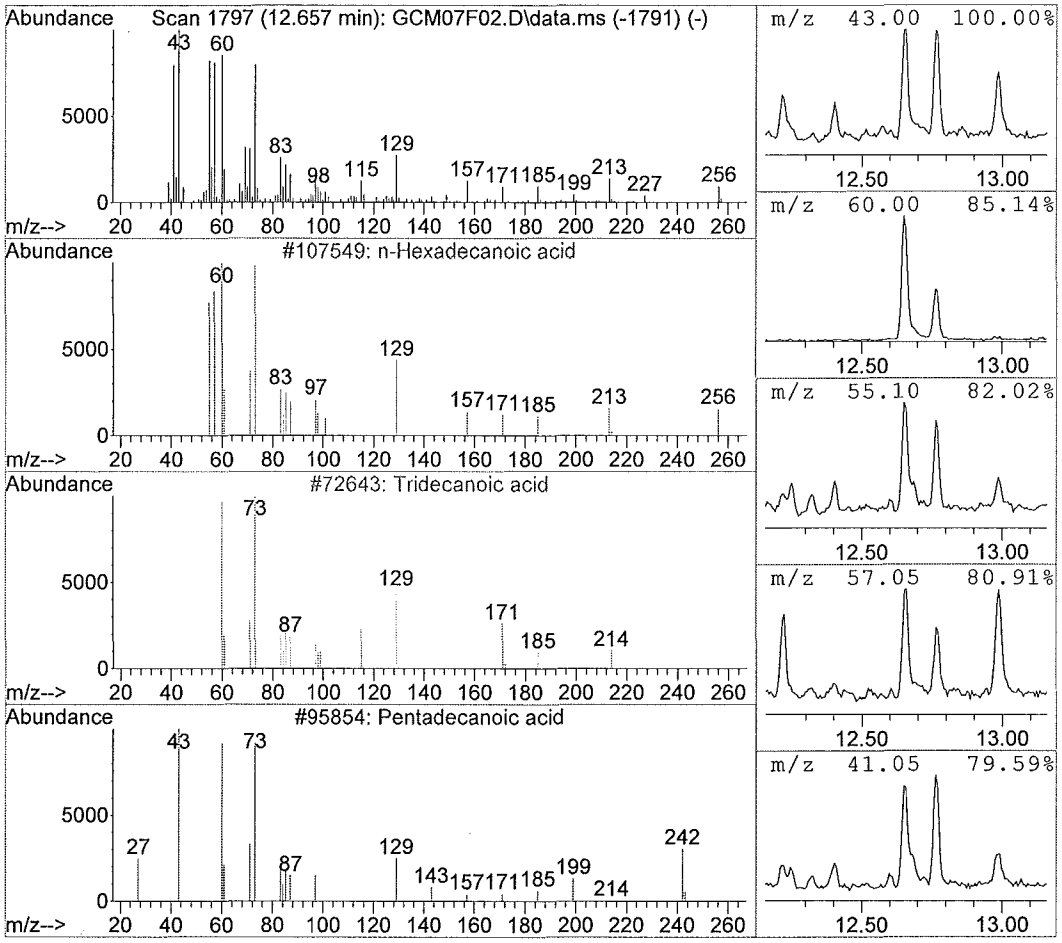
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.66	3.52 ug/ml	575886	Phenanthrene-d10	3268913

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Tridecanoic acid	72643	000638-53-9	94.00
3	Pentadecanoic acid	95854	001002-84-2	72.00
4	Dodecanoic acid	61120	000143-07-7	68.00
5	Tetradecanoic acid	84455	000544-63-8	59.00



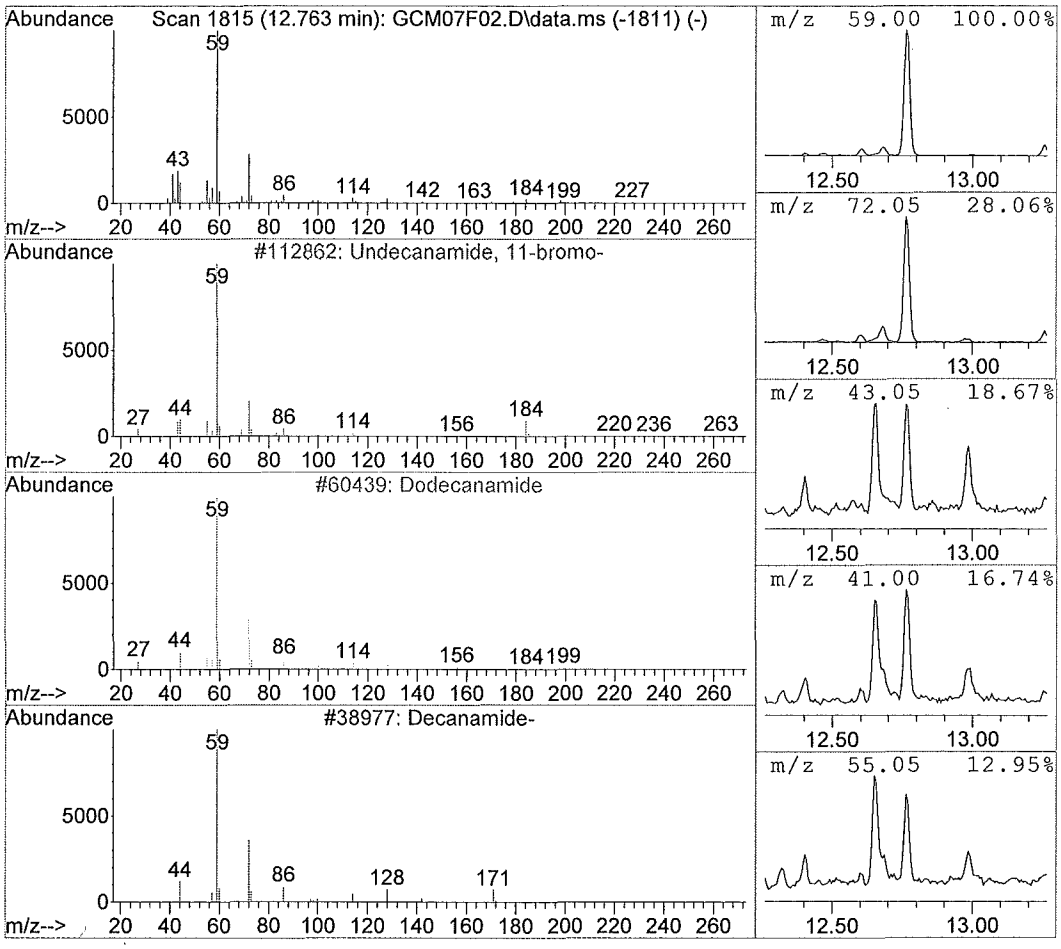
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.76	3.23 ug/ml	528712	Phenanthrene-d10	3268913

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecanamide, 11-bromo-	112862	005875-26-3	78.00
2	Dodecanamide	60439	001120-16-7	78.00
3	Decanamide-	38977	002319-29-1	74.00
4	Hexadecanamide	106565	000629-54-9	72.00
5	Pentanamide	4064	000626-97-1	59.00



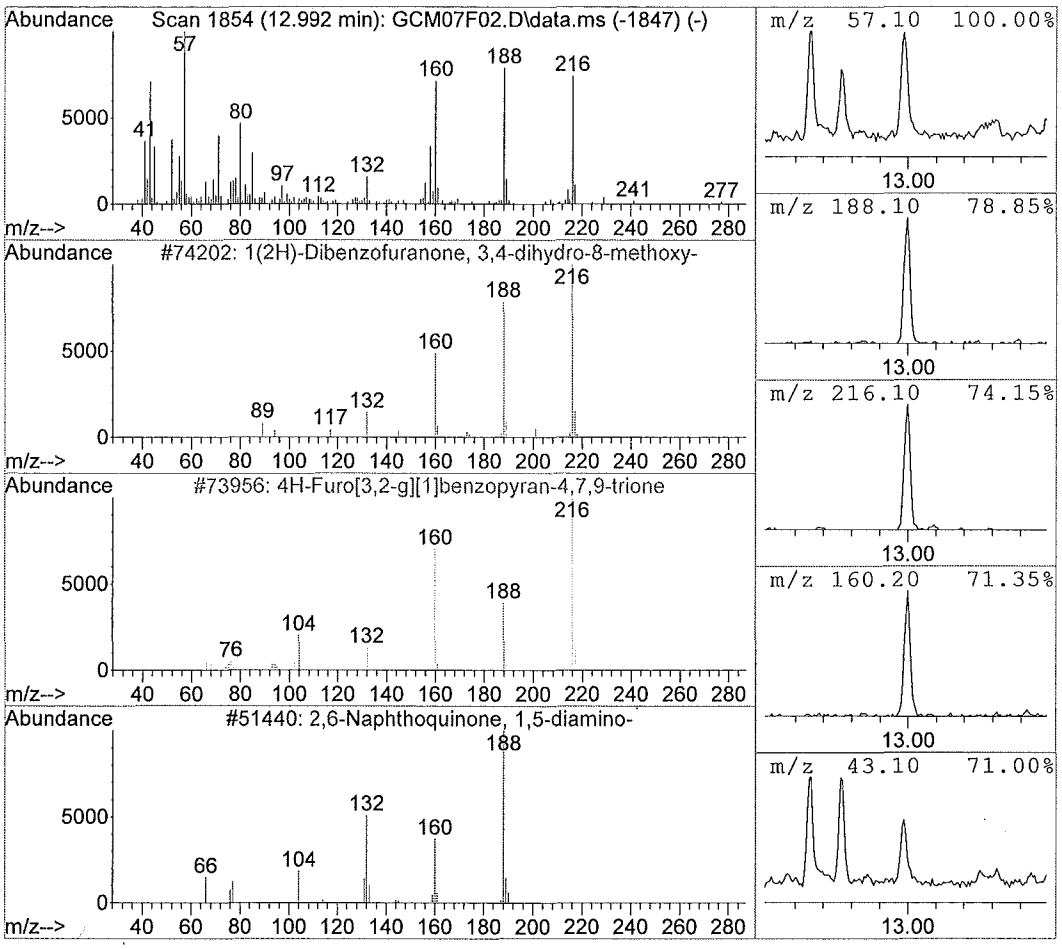
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.99	2.65 ug/ml	433014	Phenanthrene-d10	3268913

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1(2H)-Dibenzofuranone, 3,4-dihydro-	74202	095338-40-2	46.00
2	4H-Furo[3,2-g][1]benzopyran-4,7,9-t	73956	000483-36-3	25.00
3	2,6-Naphthoquinone, 1,5-diamino-	51440	002783-59-7	25.00
4	Pyrene, 1-methyl-	74415	002381-21-7	15.00
5	1,1'-Biphenyl, 4-chloro-	51691	002051-62-9	11.00



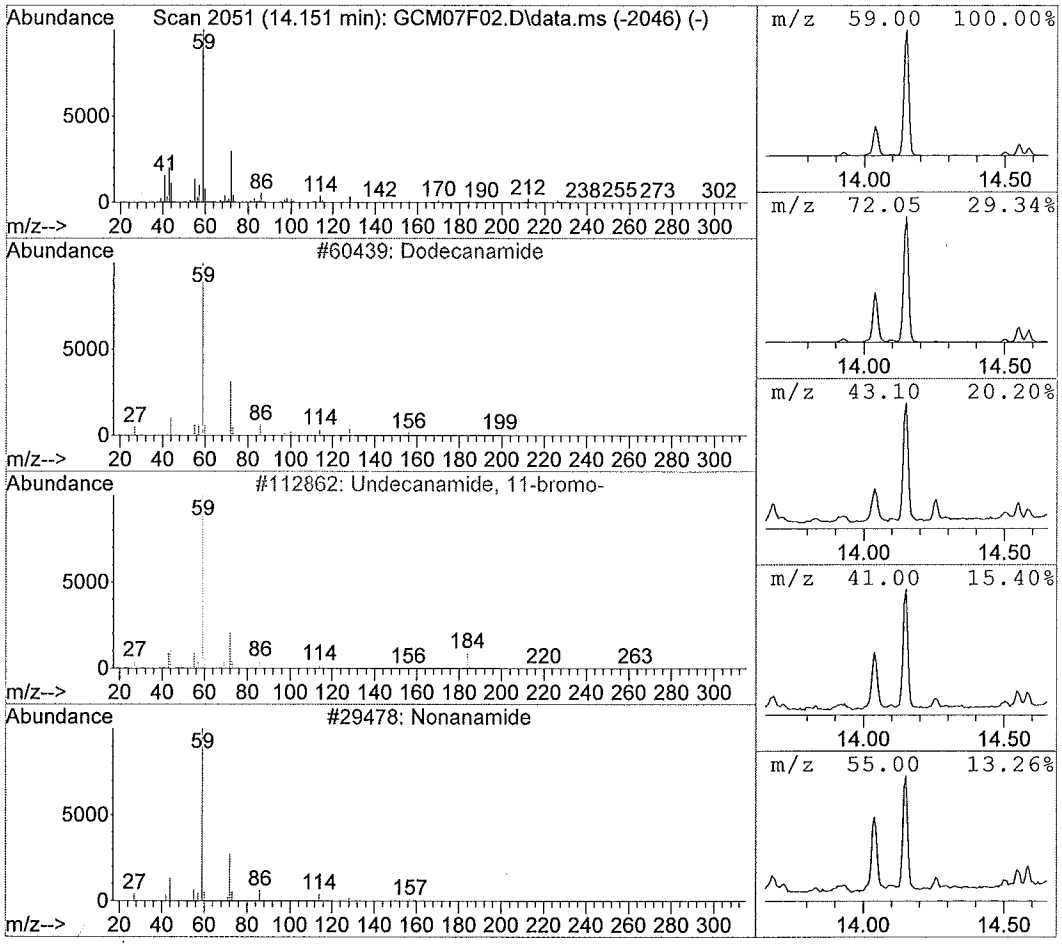
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.15	10.29 ug/ml	1823328	Chrysene-d12	3543494

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Undecanamide, 11-bromo-	112862	005875-26-3	78.00
3	Nonanamide	29478	001120-07-6	78.00
4	Tetradecanamide	83609	000638-58-4	78.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00



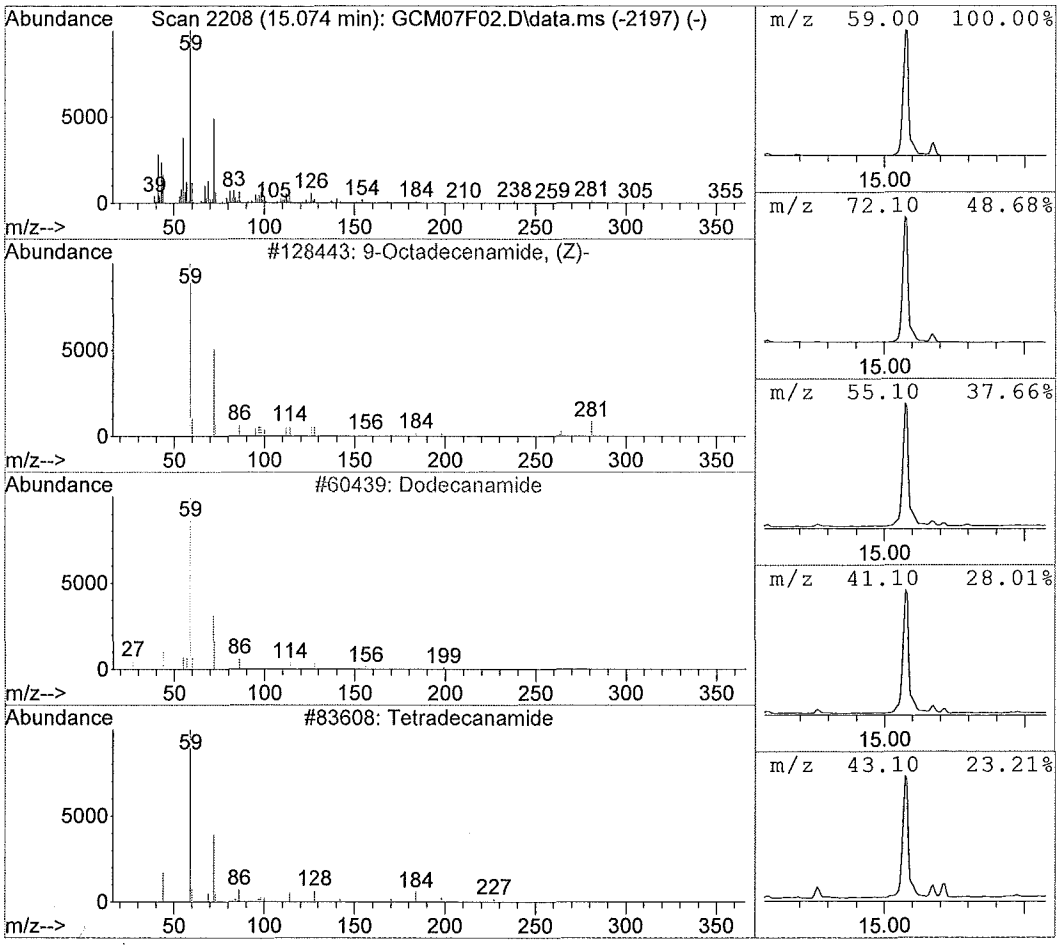
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.07	75.36 ug/ml	13351275	Chrysene-d12	3543494

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	94.00
2	Dodecanamide	60439	001120-16-7	59.00
3	Tetradecanamide	83608	000638-58-4	56.00
4	Hexadecanamide	106564	000629-54-9	56.00
5	Octanamide	20317	000629-01-6	50.00



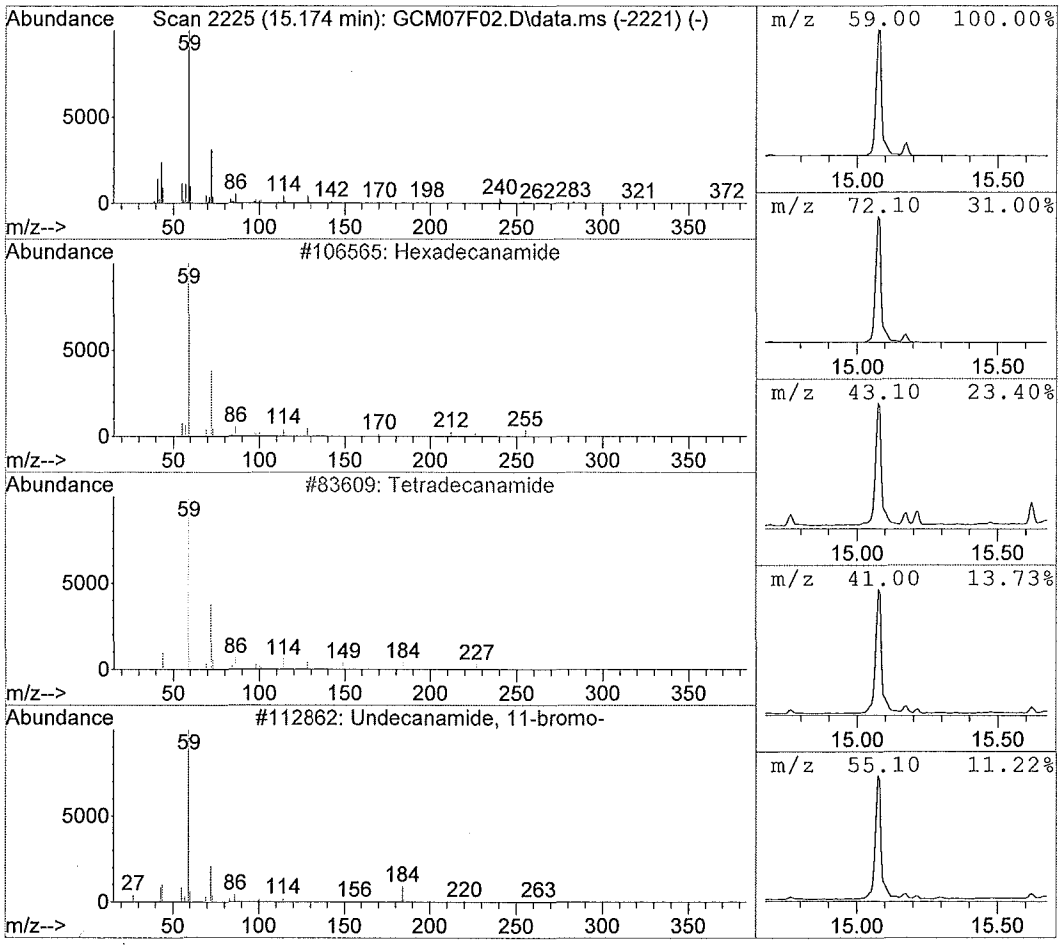
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	4.01 ug/ml	709694	Chrysene-d12	3543494

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	86.00
2	Tetradecanamide	83609	000638-58-4	78.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	72.00
4	Octadecanamide	130204	000124-26-5	64.00
5	Dodecanamide	60439	001120-16-7	64.00



Library Search Compound Report

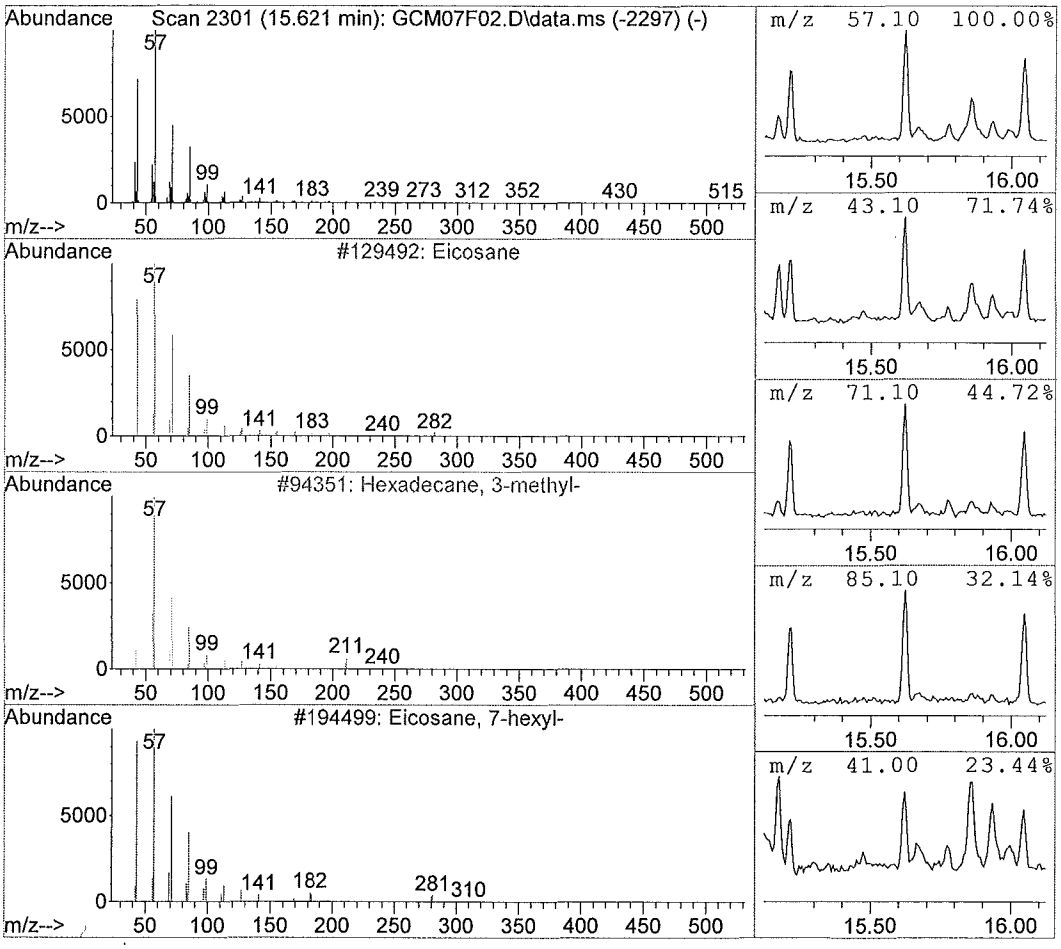
Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.62	3.00 ug/ml	530937	Chrysene-d12	3543494

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane	129492	000112-95-8	90.00
2	Hexadecane, 3-methyl-	94351	006418-43-5	90.00
3	Eicosane, 7-hexyl-	194499	055333-99-8	87.00
4	Hexacosane	194493	000630-01-3	87.00
5	Heptadecane, 2,6,10,15-tetramethyl-	141442	054833-48-6	86.00

SCA



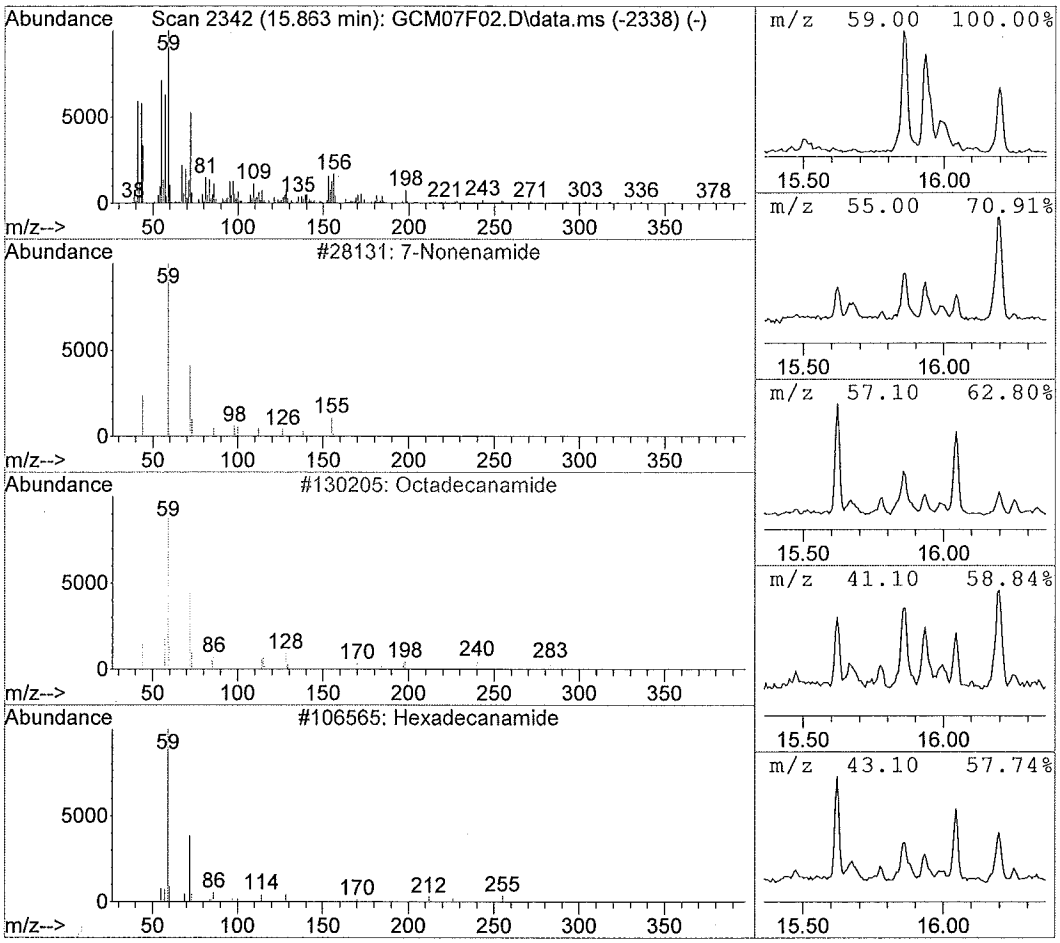
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.86	3.87 ug/ml	685239	Chrysene-d12	3543494

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7-Nonenamide	28131	090949-53-4	76.00
2	Octadecanamide	130205	000124-26-5	64.00
3	Hexadecanamide	106565	000629-54-9	53.00
4	9-Octadecenamide, (Z)-	128447	000301-02-0	53.00
5	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	50.00



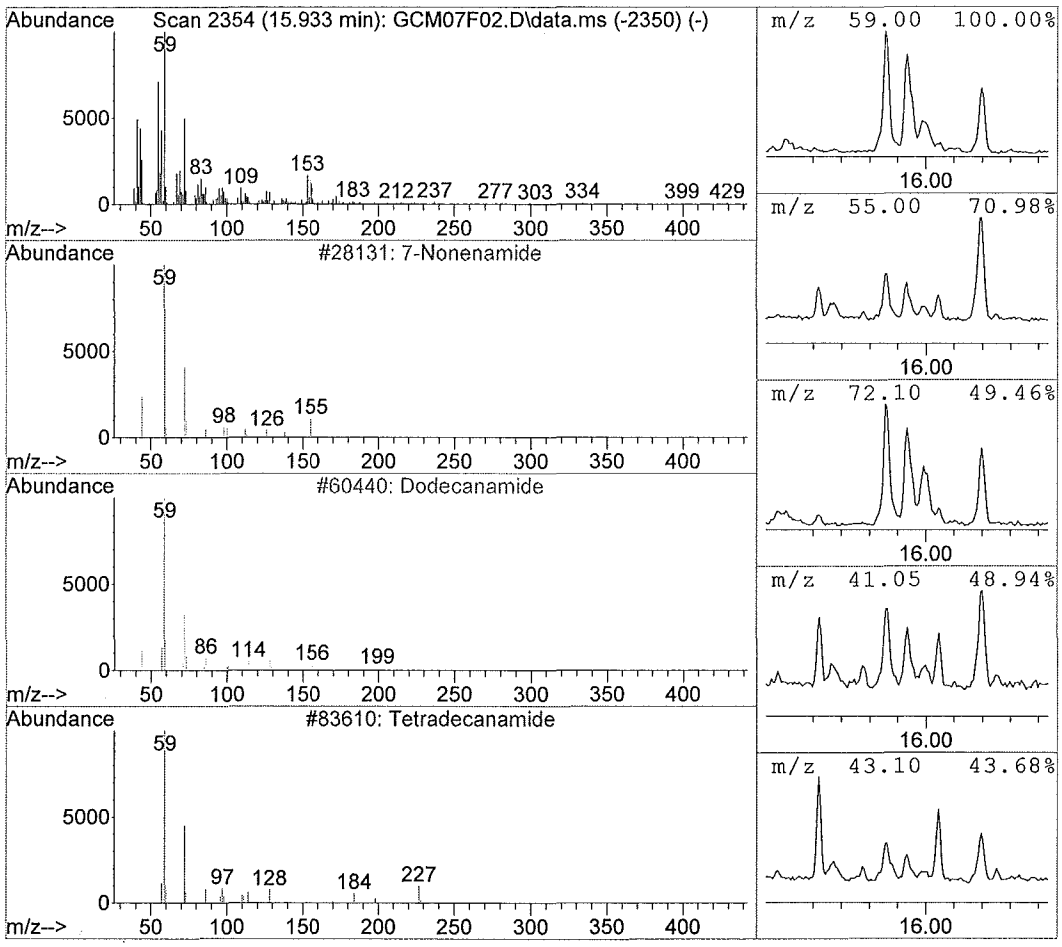
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.93	2.57 ug/ml	455116	Chrysene-d12	3543494

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7-Nonenamide	28131	090949-53-4	62.00
2	Dodecanamide	60440	001120-16-7	50.00
3	Tetradecanamide	83610	000638-58-4	50.00
4	Decanamide-	38977	002319-29-1	50.00
5	Hexadecanamide	106564	000629-54-9	43.00



Library Search Compound Report

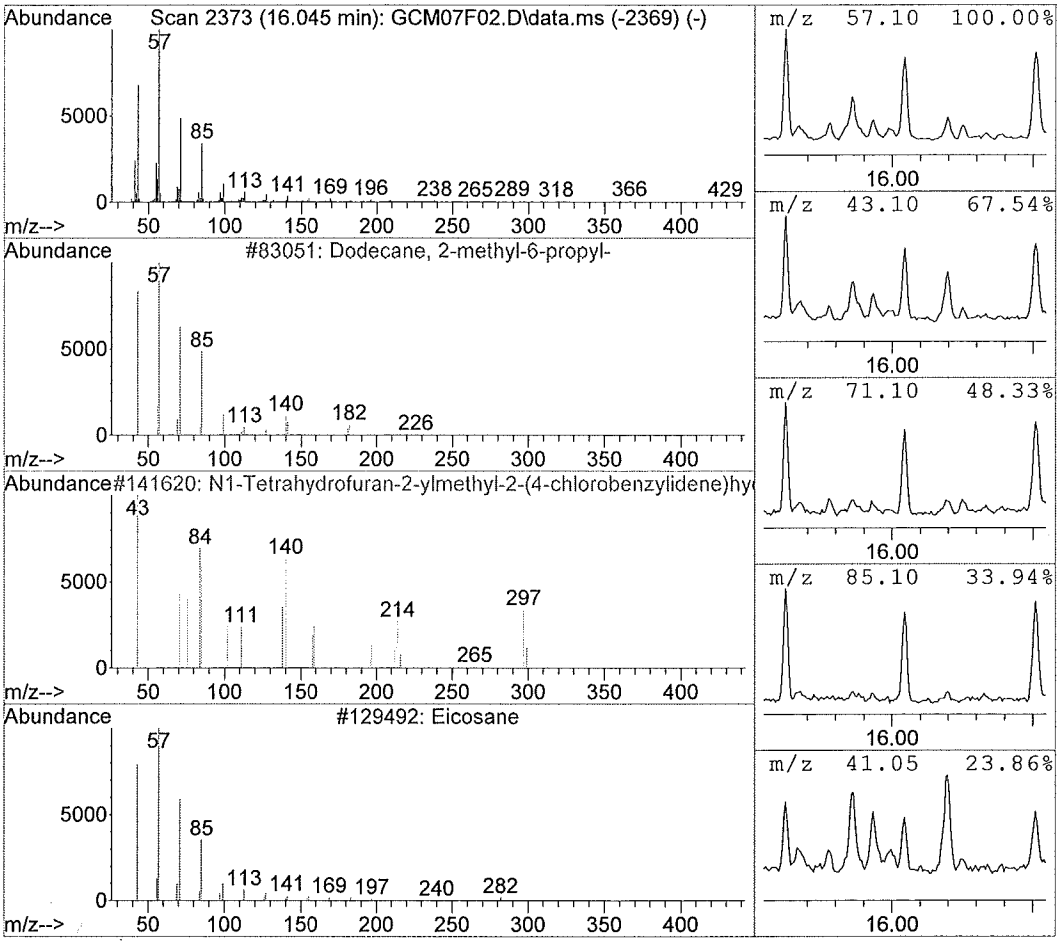
Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.04	2.26 ug/ml	401194	Chrysene-d12	3543494

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	93.00
2	N1-Tetrahydrofuran-2-ylmethyl-2-(4-	141620	283155-62-4	92.00
3	Eicosane	129492	000112-95-8	91.00
4	Tetracosane	175557	000646-31-1	83.00
5	Heptacosane	202662	000593-49-7	83.00

BA



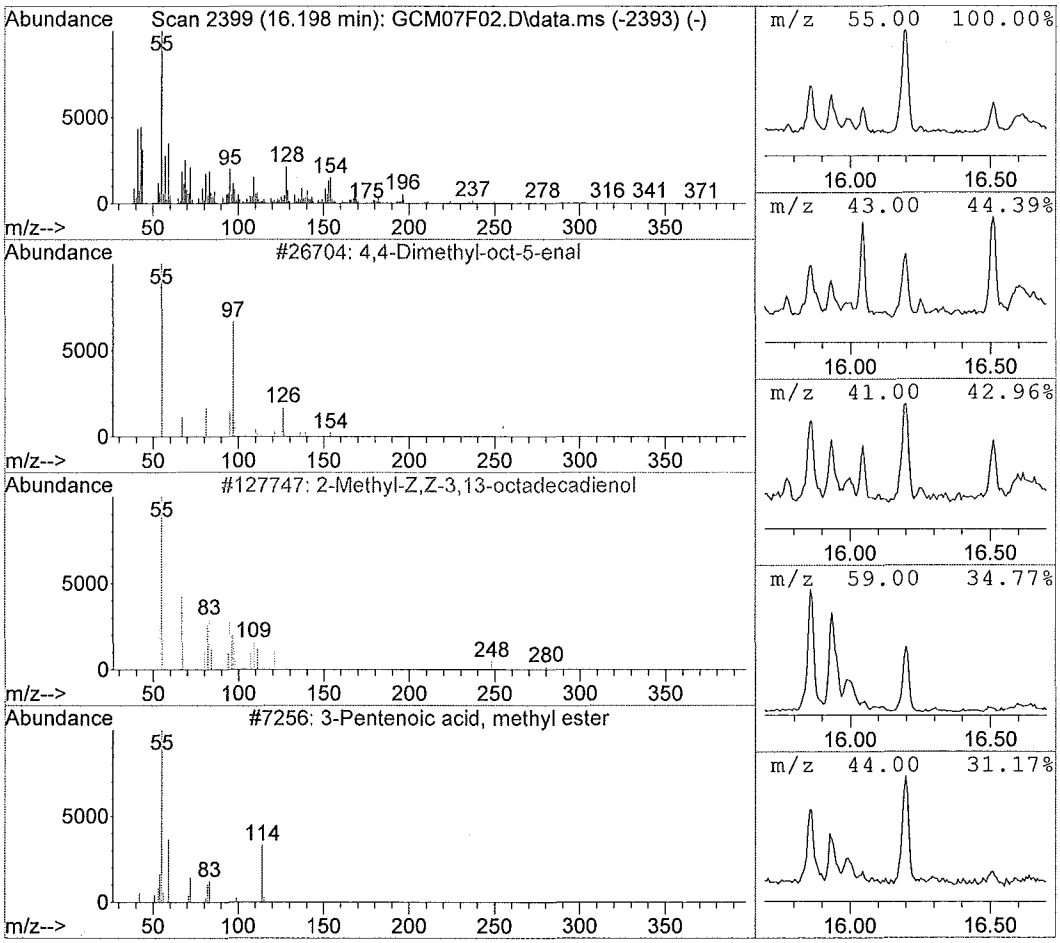
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.20	5.60 ug/ml	992299	Chrysene-d12	3543494

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4,4-Dimethyl-oct-5-enal	26704	1000143-73-6	14.00
2	2-Methyl-Z,Z-3,13-octadecadienol	127747	1000130-90-5	12.00
3	3-Pentenoic acid, methyl ester	7256	000818-58-6	12.00
4	Bicyclo[3.3.1]nonane-2,8-dione	26010	160651-01-4	12.00
5	4-Hepten-3-one, 5-ethyl-4-methyl-	26785	022319-28-4	11.00



Library Search Compound Report

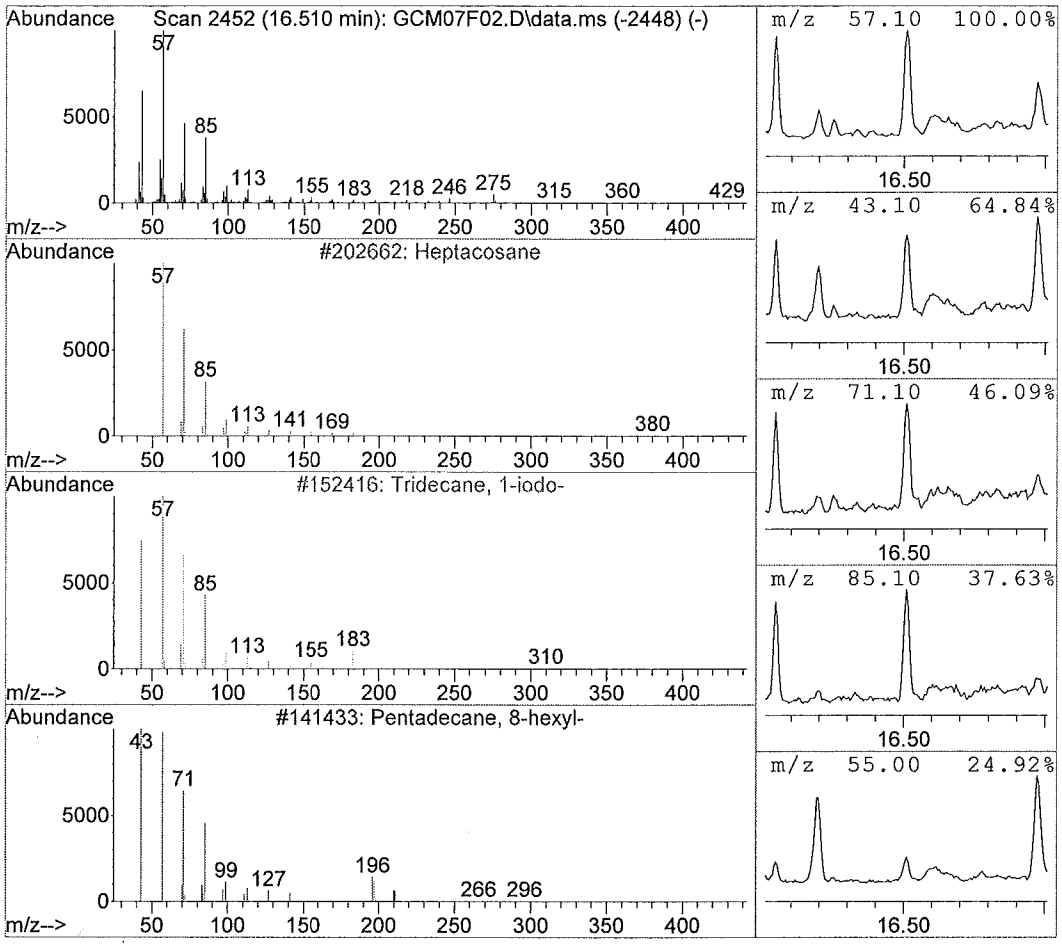
Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.51	3.35 ug/ml	593293	Chrysene-d12	3543494

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	96.00
2	Tridecane, 1-iodo-	152416	035599-77-0	90.00
3	Pentadecane, 8-hexyl-	141433	013475-75-7	90.00
4	Eicosane, 10-methyl-	141431	054833-23-7	89.00
5	Eicosane, 3-methyl-	141428	006418-46-8	87.00

SCA



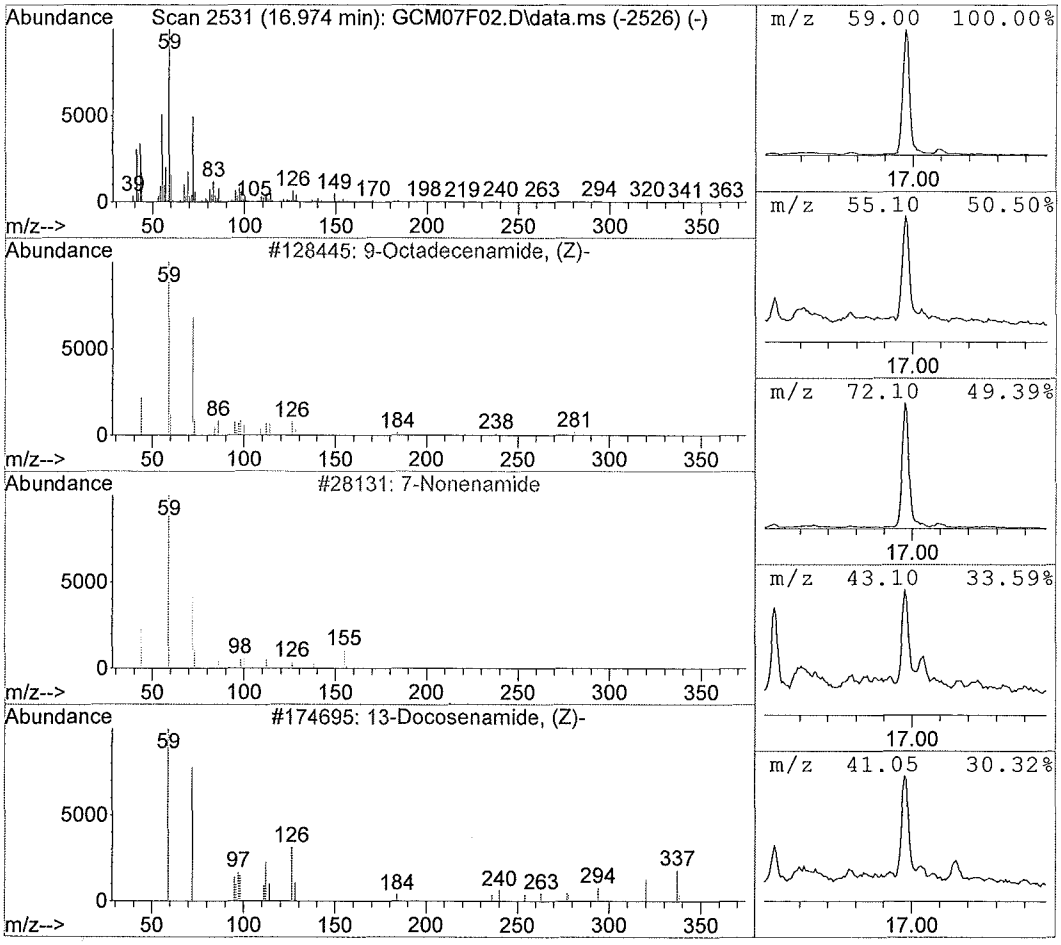
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.97	12.12 ug/ml	1776530	Perylene-d12	2932764

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	90.00
2	7-Nonenamide	28131	090949-53-4	72.00
3	13-Docosenamide, (Z)-	174695	000112-84-5	64.00
4	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	64.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	64.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.65	7.08 ug/ml	1038082	Perylene-d12	2932764

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane, 7-hexyl-	117640	007225-66-3	95.00
2	Heneicosane, 11-decyl-	223853	055320-06-4	91.00
3	Hexacosane	194494	000630-01-3	91.00
4	Hentriacontane	223852	000630-04-6	90.00
5	Sulfurous acid, butyl undecyl ester	137567	1000309-17-8	90.00

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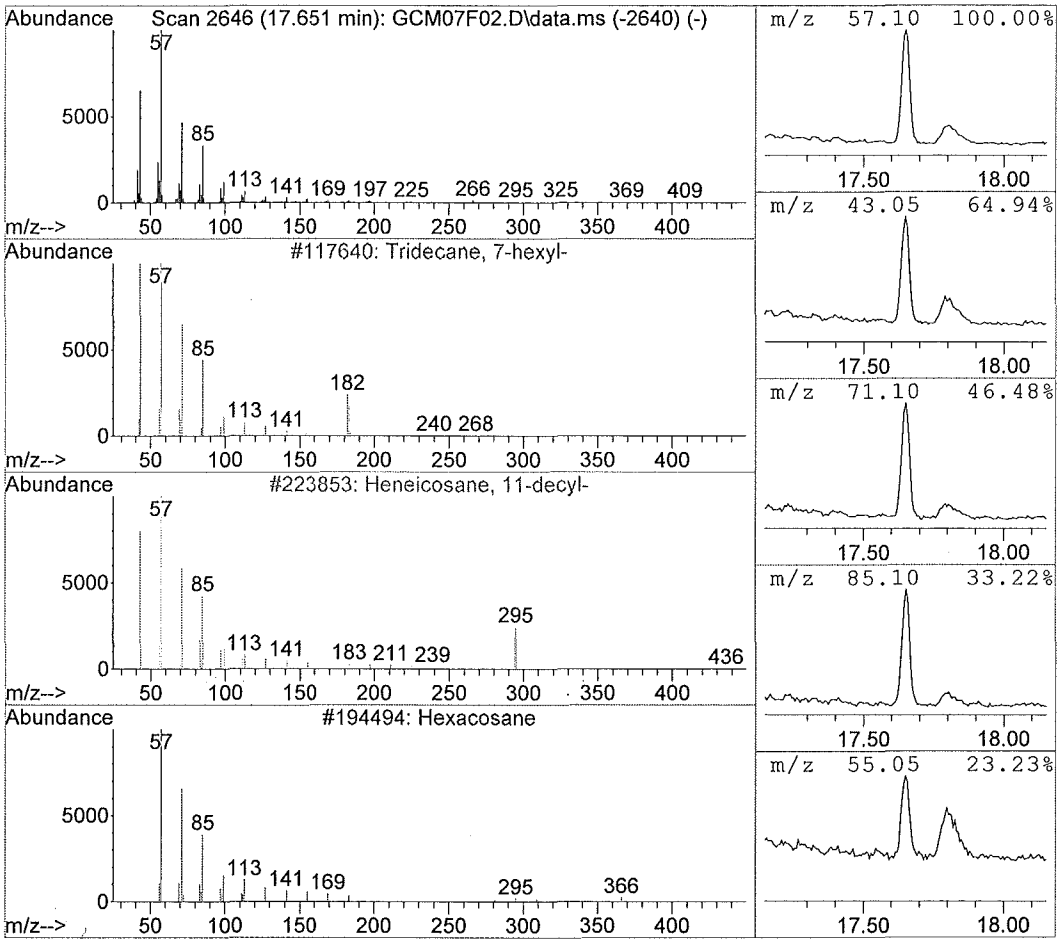


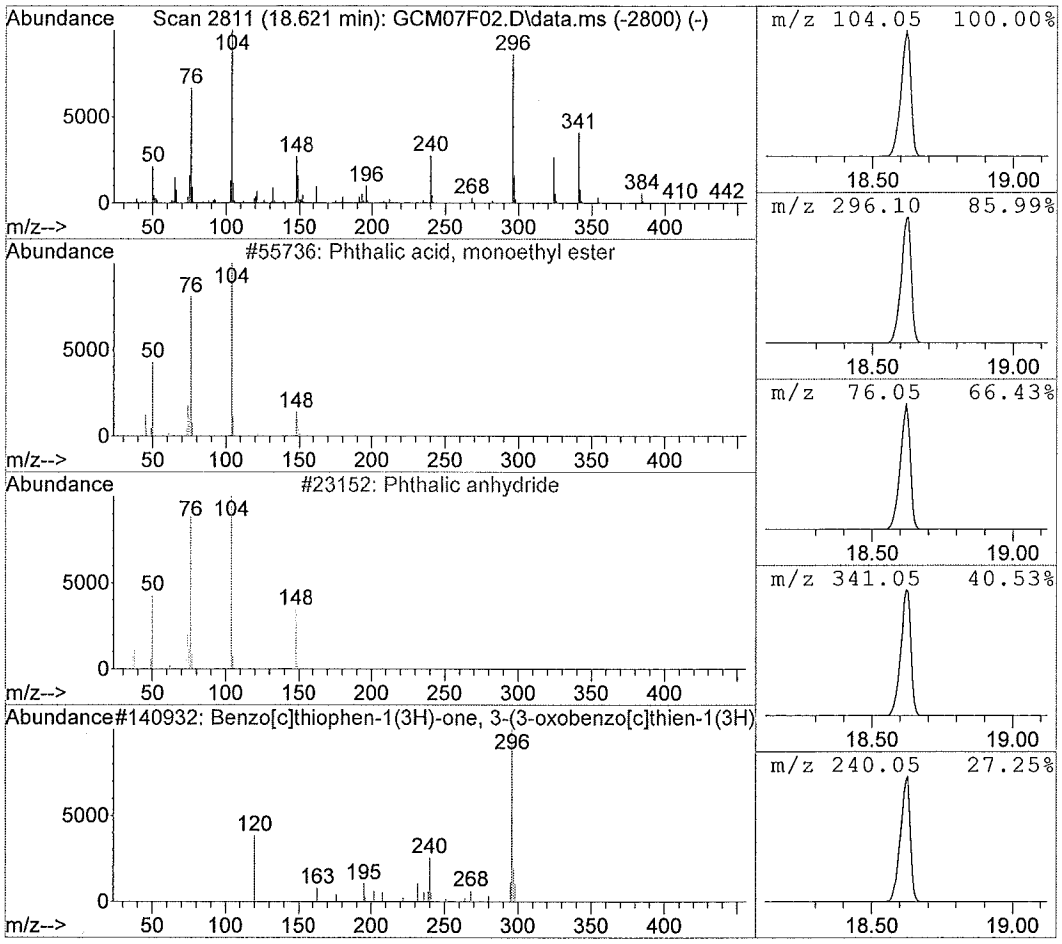
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.62	45.56 ug/ml	6681328	Perylene-d12	2932764

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic acid, monoethyl ester	55736	002306-33-4	27.00
2	Phthalic anhydride	23152	000085-44-9	27.00
3	Benzo[c]thiophen-1(3H)-one, 3-(3-ox	140932	023667-32-5	22.00
4	3-Ethylideneisobenzofuranone	30775	004767-63-9	22.00
5	1,2-Benzenedicarboxylic acid	35572	000088-99-3	16.00



Library Search Compound Report

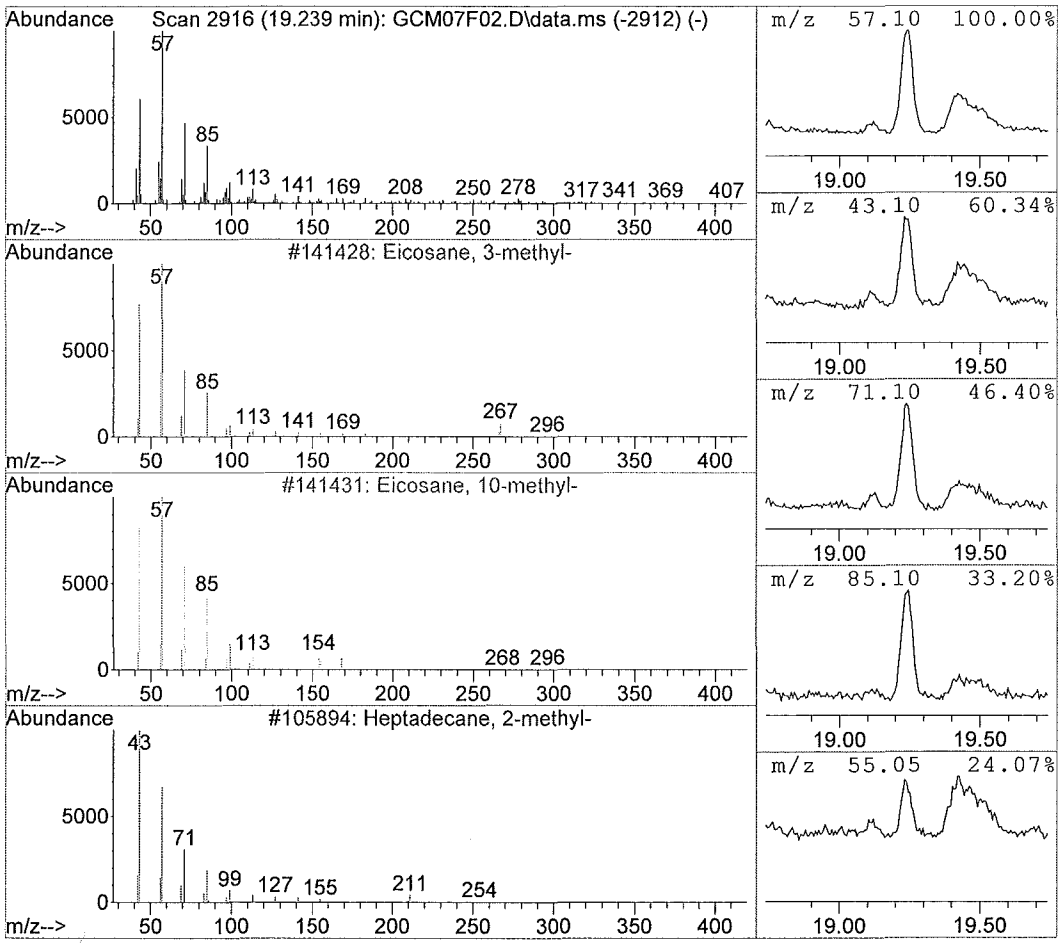
Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.24	2.94 ug/ml	431452	Perylene-d12	2932764

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane, 3-methyl-	141428	006418-46-8	91.00
2	Eicosane, 10-methyl-	141431	054833-23-7	91.00
3	Heptadecane, 2-methyl-	105894	001560-89-0	87.00
4	Heptadecane, 3-methyl-	105897	006418-44-6	83.00
5	Hentriacontane	223851	000630-04-6	83.00

BA



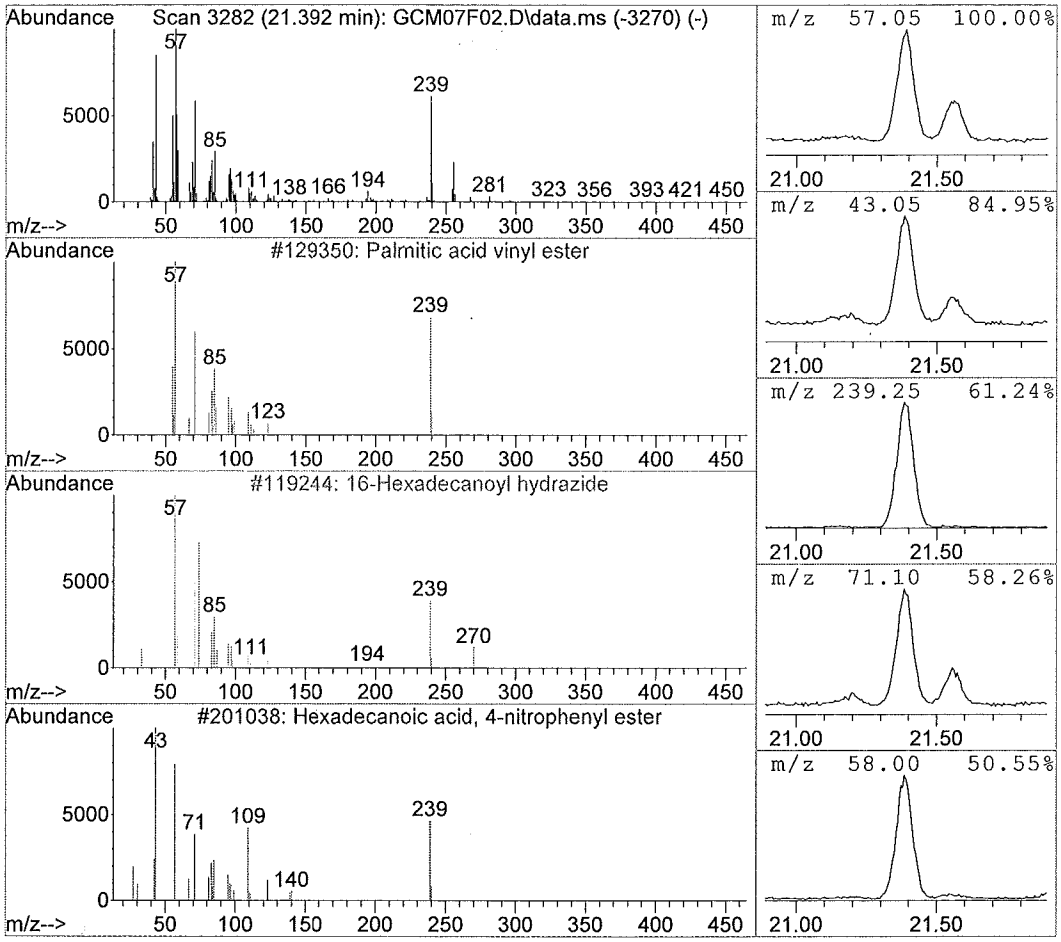
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.39	15.89 ug/ml	2330306	Perylene-d12	2932764

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Palmitic acid vinyl ester	129350	000693-38-9	45.00
2	16-Hexadecanoyl hydrazide	119244	002619-88-7	35.00
3	Hexadecanoic acid, 4-nitrophenyl es	201038	001492-30-4	27.00
4	Decane, 5-propyl-	48838	017312-62-8	25.00
5	Hexadecanal, 2-methyl-	105861	055019-46-0	22.00



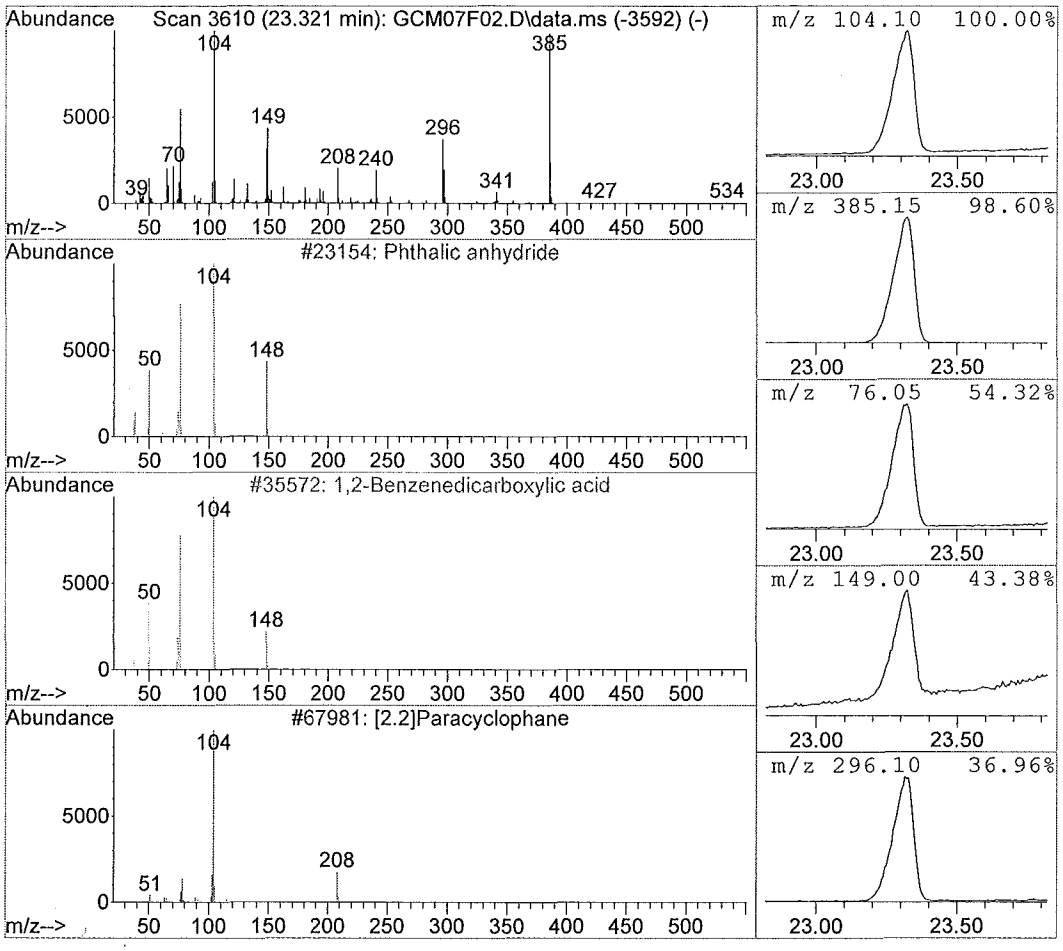
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM07F02.D Vial: 14
Acq On : 07/06/2015 17:55 Operator: TJM
Sample : 1514293002 F9L59 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.32	46.88 ug/ml	6874088	Perylene-d12	2932764

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23154	000085-44-9	27.00
2	1,2-Benzenedicarboxylic acid	35572	000088-99-3	27.00
3	[2.2]Paracyclophane	67981	001633-22-3	18.00
4	2-Propenamide, N-[4,5-dihydro-5-oxo	141600	1000350-88-9	14.00
5	Phthalic acid, 2-phenylethyl propyl	154707	1000309-77-1	12.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.:

F9L60

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293003

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC07F03

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	210	U
108-95-2	Phenol	210	U
111-44-4	Bis(2-chloroethyl)ether	210	U
95-57-8	2-Chlorophenol	210	U
95-48-7	2-Methylphenol	210	U
108-60-1	2,2'-Oxybis(1-chloropropane)	210	U
98-86-2	Acetophenone	210	U
106-44-5	4-Methylphenol	210	U
621-64-7	N-Nitroso-di-n-propylamine	210	U
67-72-1	Hexachloroethane	210	U
98-95-3	Nitrobenzene	210	U
78-59-1	Isophorone	210	U
88-75-5	2-Nitrophenol	210	U
105-67-9	2,4-Dimethylphenol	210	U
111-91-1	Bis(2-chloroethoxy)methane	210	U
120-83-2	2,4-Dichlorophenol	210	U
91-20-3	Naphthalene	210	U
106-47-8	4-Chloroaniline	210	U
87-68-3	Hexachlorobutadiene	210	U
105-60-2	Caprolactam	210	U
59-50-7	4-Chloro-3-methylphenol	210	U
91-57-6	2-Methylnaphthalene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U
92-52-4	1,1'-Biphenyl	210	U
91-58-7	2-Chloronaphthalene	210	U
88-74-4	2-Nitroaniline	410	U
131-11-3	Dimethylphthalate	210	U
606-20-2	2,6-Dinitrotoluene	210	U
208-96-8	Acenaphthylene	210	U
99-09-2	3-Nitroaniline	410	U
83-32-9	Acenaphthene	210	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.:

F9L60

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293003

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC07F03

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	410	U
100-02-7	4-Nitrophenol	410	U
132-64-9	Dibenzofuran	210	U
121-14-2	2,4-Dinitrotoluene	210	U
84-66-2	Diethylphthalate	210	U
86-73-7	Fluorene	210	U
7005-72-3	4-Chlorophenyl-phenylether	210	U
100-01-6	4-Nitroaniline	410	U
534-52-1	4,6-Dinitro-2-methylphenol	410	U
86-30-6	N-Nitrosodiphenylamine[1]	210	U
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U
101-55-3	4-Bromophenyl-phenylether	210	U
118-74-1	Hexachlorobenzene	210	U
1912-24-9	Atrazine	210	U
87-86-5	Pentachlorophenol	410	U
85-01-8	Phenanthrene	210	U
120-12-7	Anthracene	210	U
86-74-8	Carbazole	210	U
84-74-2	Di-n-butylphthalate	210	U
206-44-0	Fluoranthene	210	U
129-00-0	Pyrene	210	U
85-68-7	Butylbenzylphthalate	210	U
91-94-1	3,3'-Dichlorobenzidine	210	U
56-55-3	Benzo(a)anthracene	210	U
218-01-9	Chrysene	210	U
117-81-7	Bis(2-ethylhexyl)phthalate	210	U
117-84-0	Di-n-octylphthalate	210	U
205-99-2	Benzo(b)fluoranthene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
50-32-8	Benzo(a)pyrene	210	U
193-39-5	Indeno(1,2,3-cd)pyrene	210	U
53-70-3	Dibenzo(a,h)anthracene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
58-90-2	2,3,4,6-Tetrachlorophenol	210	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9L60

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293003

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC07F03

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 2,2-dimethoxy-	2.12	230	JB
02		Unknown 2-Pentanone, 4-hydroxy-	3.38	110	J
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.58	4400	J
04		Unknown 3-Hexene-2,5-dione	4.35	310	JB
05	112-39-0	Hexadecanoic acid, methyl ester	12.53	100	JN
06	638-58-4	Tetradecanamide	14.26	210	JN
07	301-02-0	9-Octadecenamide, (Z)-	15.17	1700	JNB
08	112-84-5	13-Docosenamide, (Z)-	17.13	700	JN
09		Unknown Phthalic anhydride	18.82	88.	JB
10		Unknown D-Friedoolean-14-ene, 3-methoxy-, (3.bet	21.54	750	J
11	1058-61-3	Stigmast-4-en-3-one	24.64	170	JN
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	1200	J

[2] EPA-designated Registry Number.

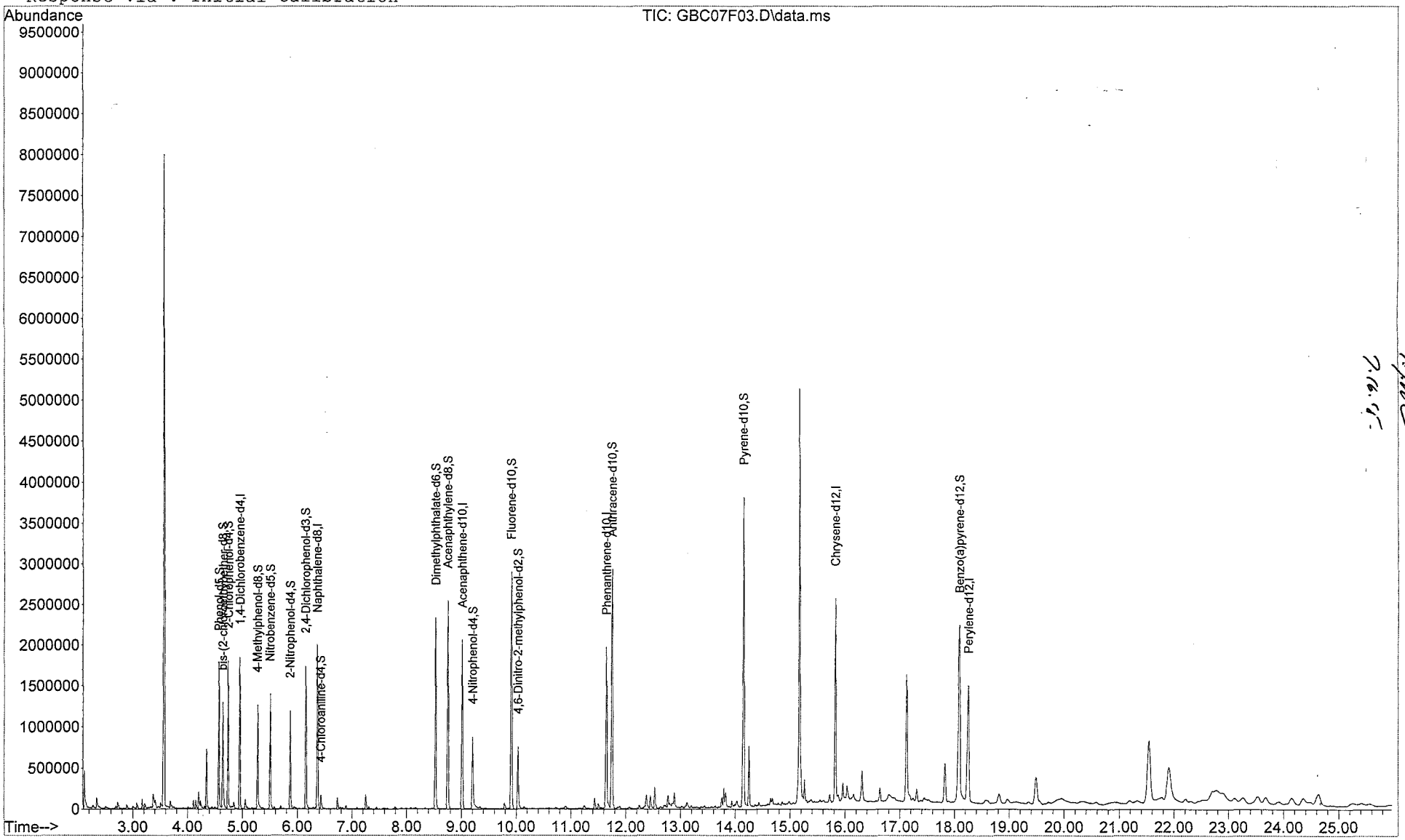
Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC07F03.D
Acq On : 06/02/2015 16:42
Sample : 1514293003 F9L60
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 6
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 14:38:08 2015 Results File: GSOM01D4.RES

Method : R:\G\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 : R:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:38:08 2015 Results File: GSOM01D4.RES

Method : R:\G\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	328988	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1226452	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	689453	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1153612	20.00 ug/ml
73) Chrysene-d12	15.83	240	1118716	20.00 ug/ml
81) Perylene-d12	18.26	264	1082617	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	638380	27.826ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	281436	20.035ug/mL
7) 2-Chlorophenol-d4	4.75	132	583380	25.899ug/ml
13) 4-Methylphenol-d8	5.28	113	323541	18.114ug/mL
17) Nitrobenzene-d5	5.51	128	259464	25.215ug/ml
21) 2-Nitrophenol-d4	5.87	143	315306	27.496ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	483346	28.772ug/mL
28) 4-Chloroaniline-d4	6.43	131	79376	4.356ug/mL
42) Dimethylphthalate-d6	8.53	166	1462634	34.883ug/mL
45) Acenaphthylene-d8	8.76	160	1658182	29.633ug/mL
50) 4-Nitrophenol-d4	9.21	143	292637	32.774ug/mL
57) Fluorene-d10	9.92	176	1203466	33.045ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	188160	24.831ug/mL
69) Anthracene-d10	11.76	188	1923561	32.963ug/mL
75) Pyrene-d10	14.16	212	1720197	33.822ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1630432	33.201ug/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 : R:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:38:08 2015 Results File: GSOM01D4.RES

Method : R:\G\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)

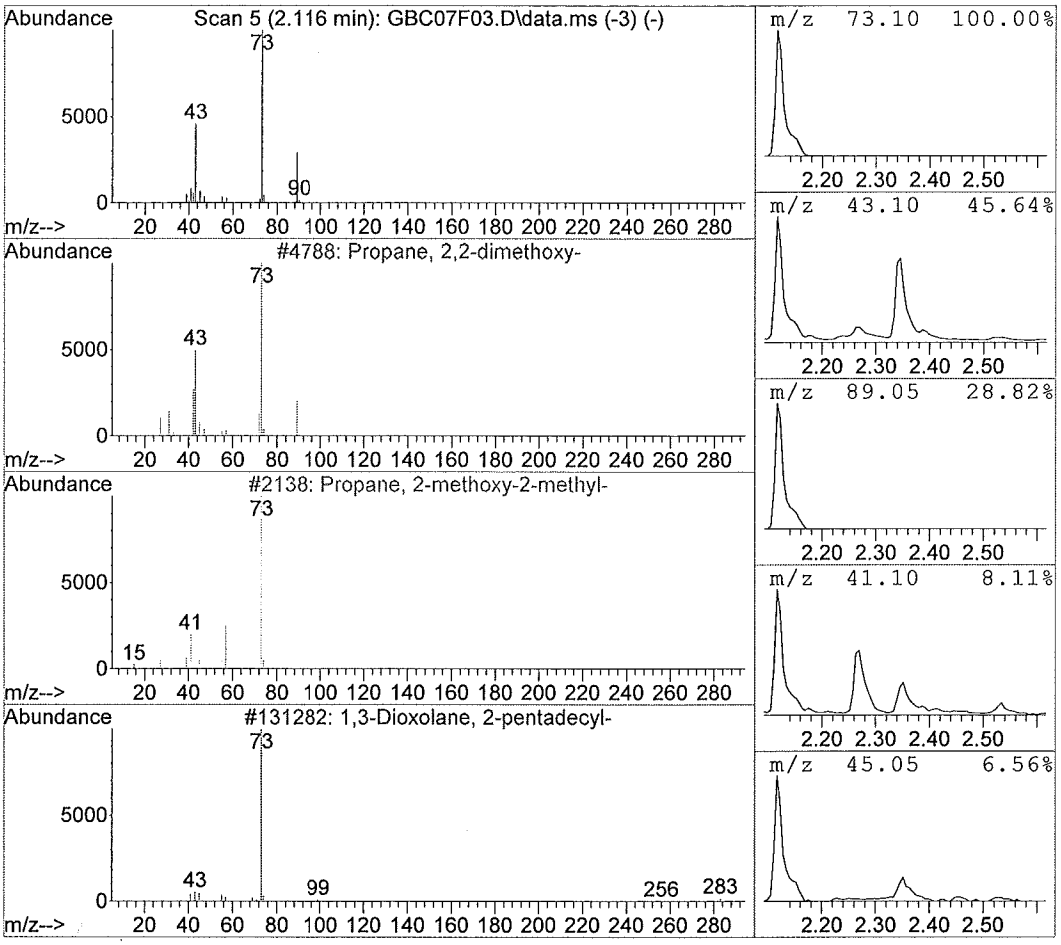
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.12	5.68 ug/ml	518285	1,4-Dichlorobenzene-d4	1824807

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 2,2-dimethoxy-	4788	000077-76-9	38.00
2	Propane, 2-methoxy-2-methyl-	2138	001634-04-4	9.00
3	1,3-Dioxolane, 2-pentadecyl-	131282	004360-57-0	9.00
4	Pentane, 3-methoxy-	4436	036839-67-5	9.00
5	1-Hexen-4-ol, 1-chloro-3,5-dimethyl	32642	100244-09-5	9.00



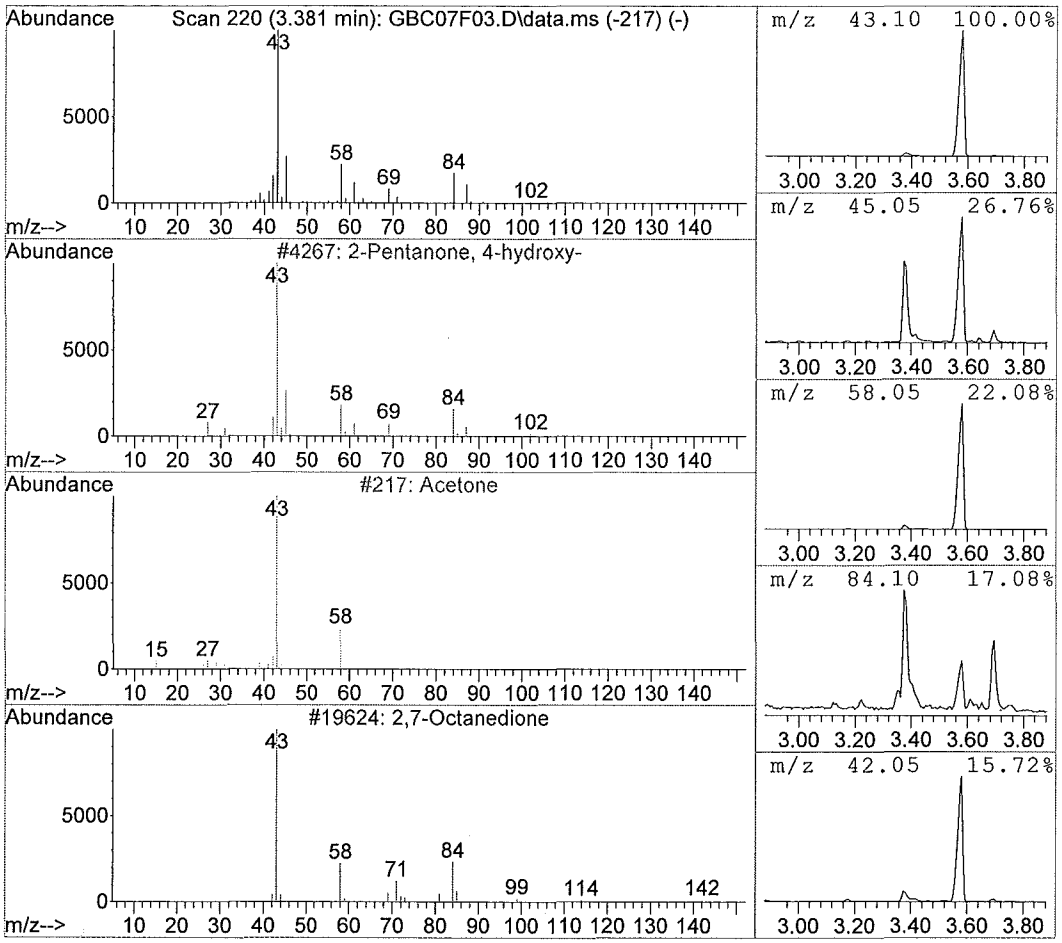
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	248199	1,4-Dichlorobenzene-d4	1824807

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	38.00
2	Acetone	217	000067-64-1	35.00
3	2,7-Octanedione	19624	001626-09-1	25.00
4	2,4-Diacetoxypentane	52047	007371-86-0	23.00
5	2-Hexanol, acetate	20845	005953-49-1	23.00



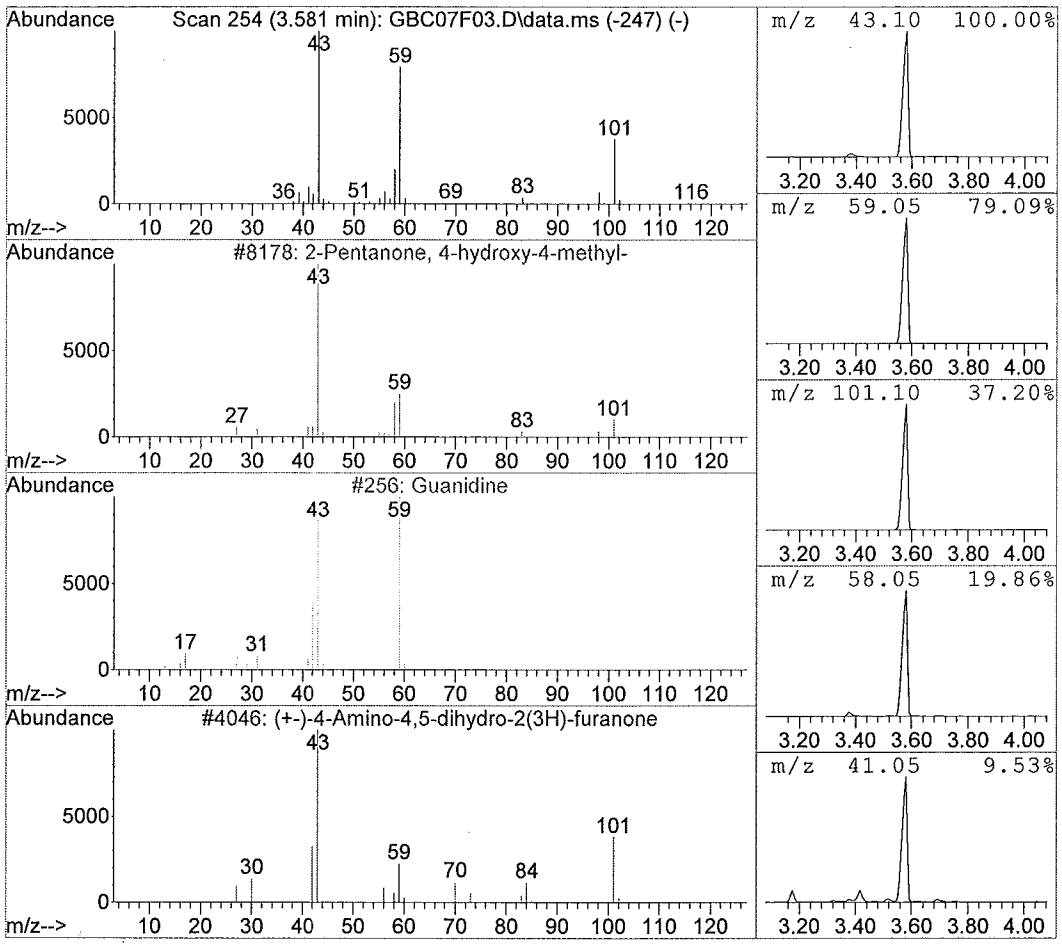
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	107.62 ug/ml	9819079	1,4-Dichlorobenzene-d4	1824807

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	Propanamide, N-ethyl-	4082	005129-72-6	9.00



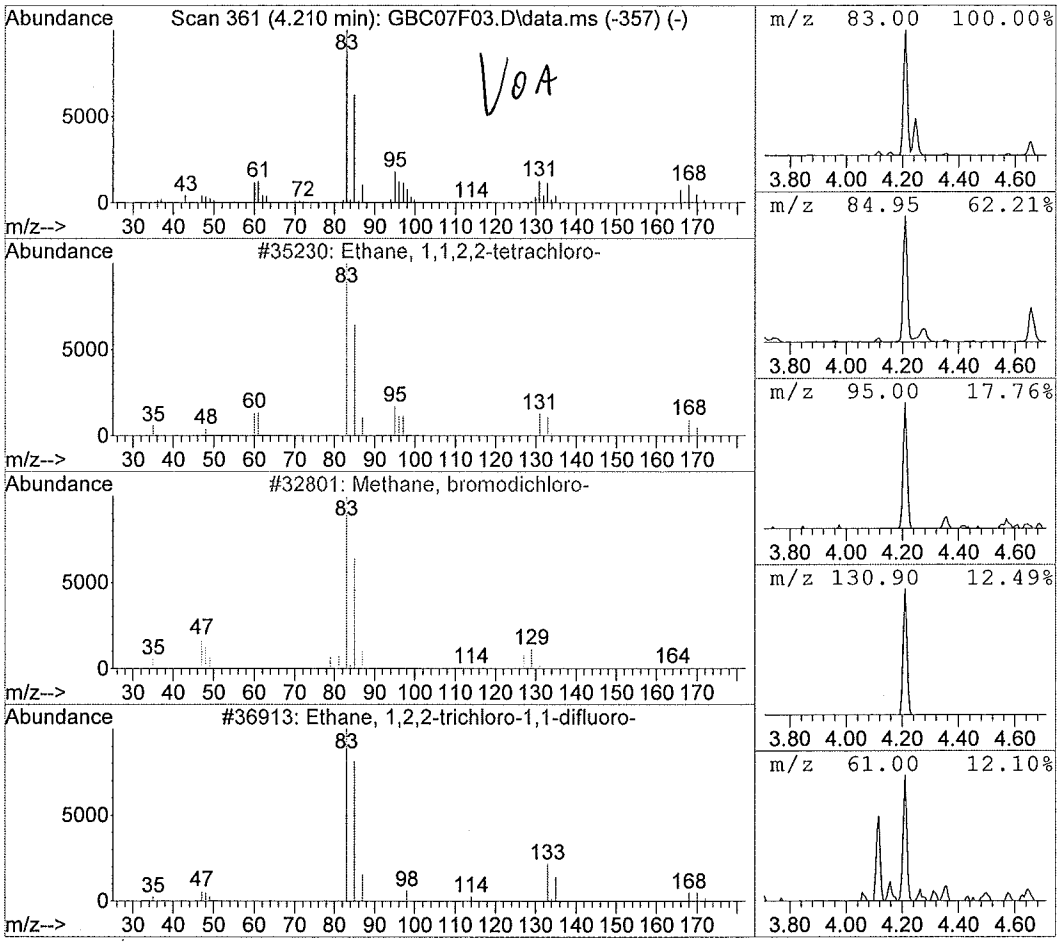
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.21	2.57 ug/ml	234111	1,4-Dichlorobenzene-d4	1824807

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	35230	000079-34-5	97.00
2	Methane, bromodichloro-	32801	000075-27-4	50.00
3	Ethane, 1,2,2-trichloro-1,1-difluor	36913	000354-21-2	49.00
4	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	45.00
5	Methane, oxybis[dichloro-	47352	020524-86-1	40.00



: 00112

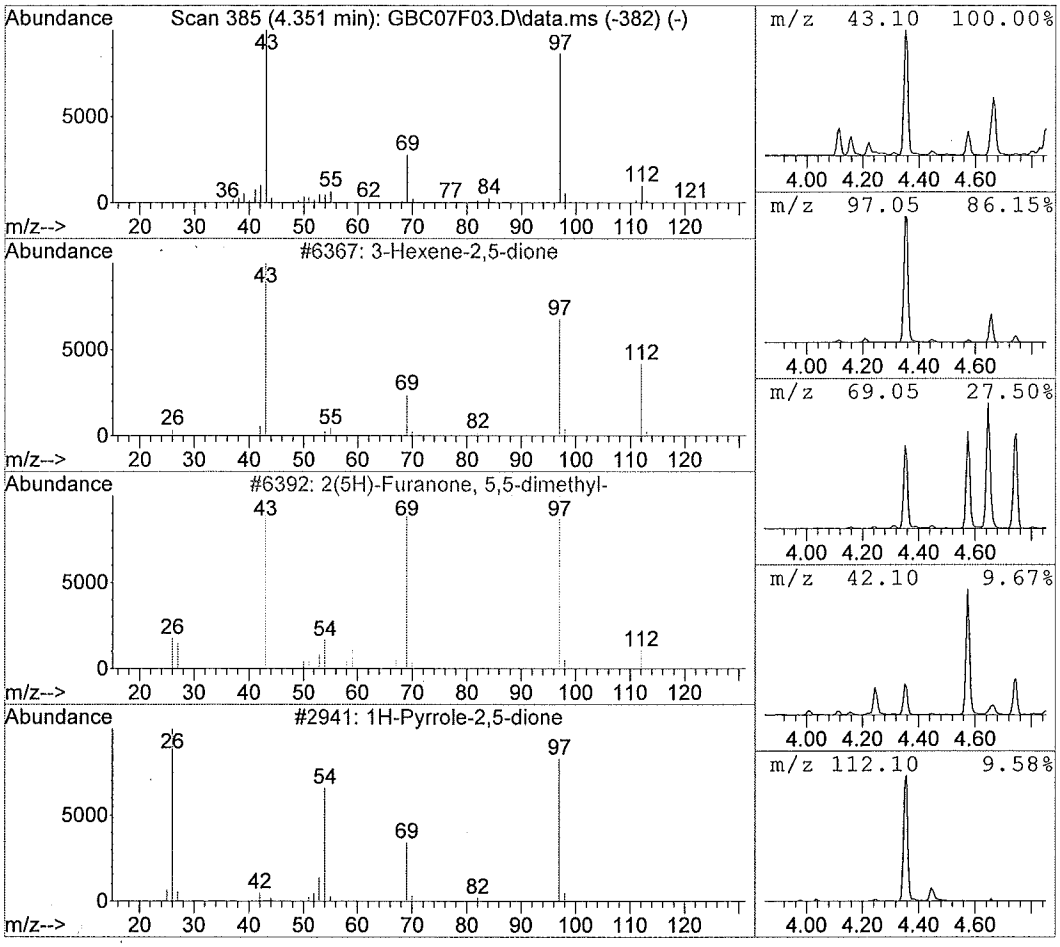
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	7.65 ug/ml	697742	1,4-Dichlorobenzene-d4	1824807

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	2-Cyclohexen-1-ol, 1-methyl-	6571	023758-27-2	40.00
5	Sulfurous acid, butyl cyclohexylmet	88702	1000309-21-4	33.00



00113

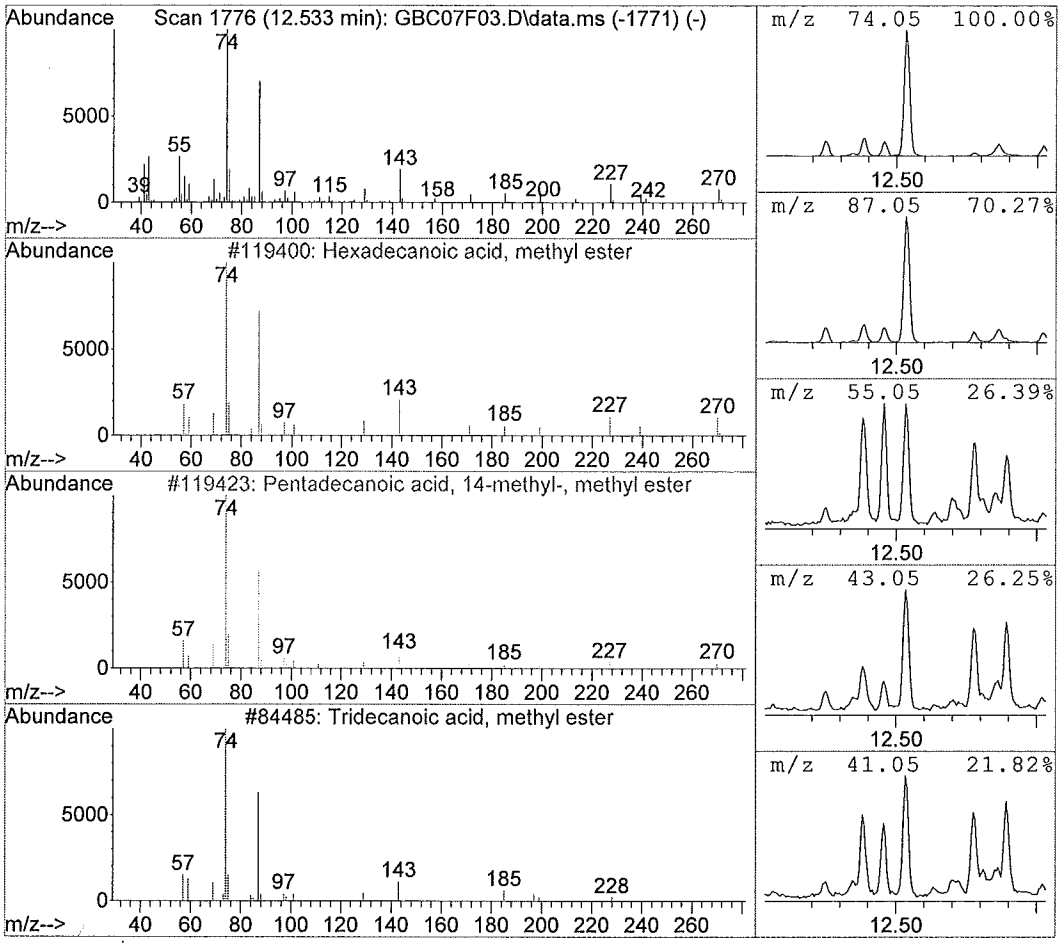
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.53	2.43 ug/ml	357082	Phenanthrene-d10	2933252

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, methyl ester	119400	000112-39-0	99.00
2	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	96.00
3	Tridecanoic acid, methyl ester	84485	001731-88-0	90.00
4	Methyl tetradecanoate	95861	000124-10-7	81.00
5	Pentadecanoic acid, methyl ester	107593	007132-64-1	80.00



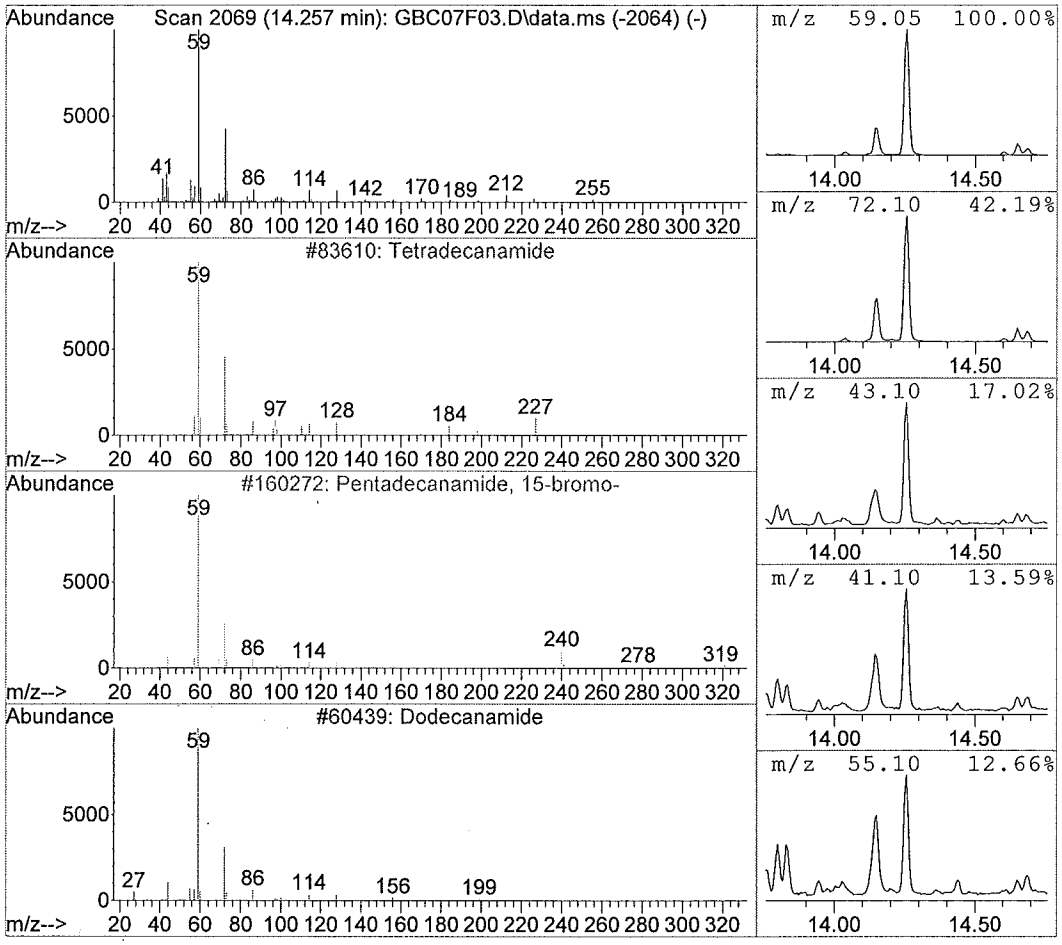
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.26	5.15 ug/ml	854088	Chrysene-d12	3314871

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83610	000638-58-4	87.00
2	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00
3	Dodecanamide	60439	001120-16-7	59.00
4	Nonanamide	29478	001120-07-6	56.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	56.00



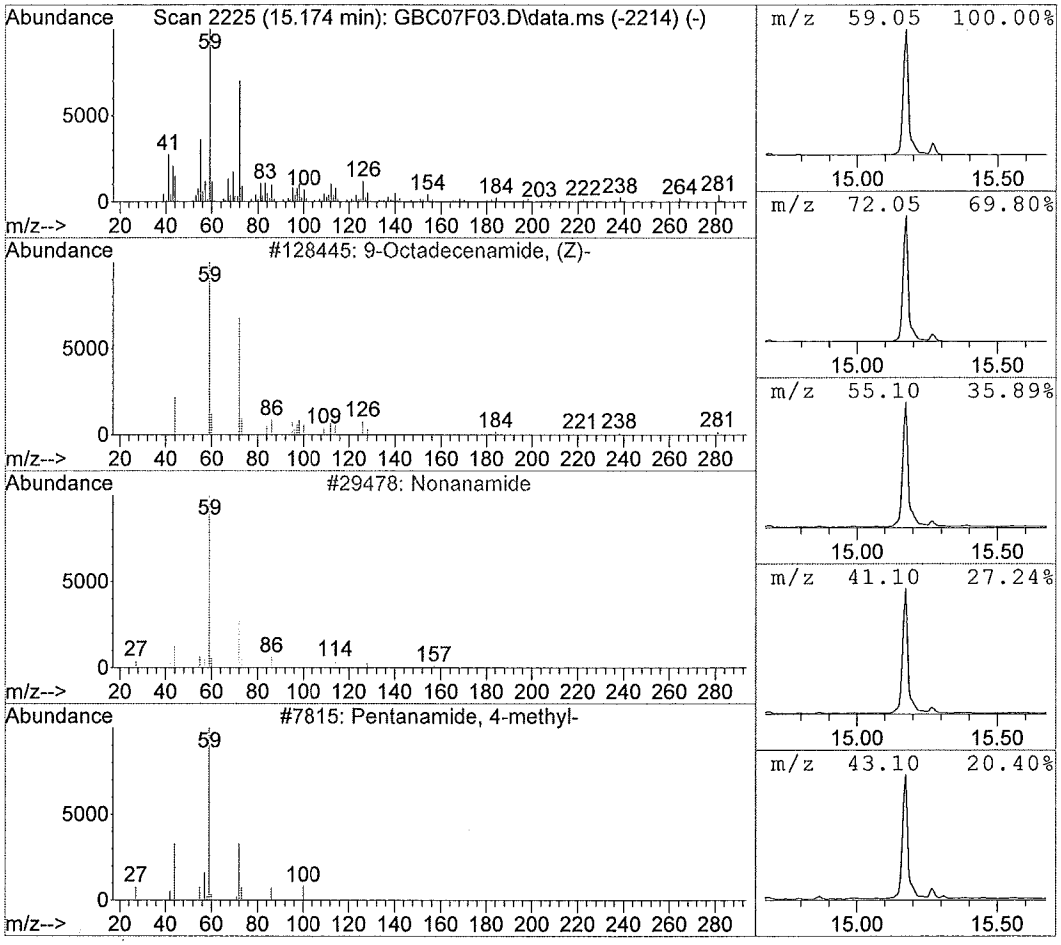
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	41.31 ug/ml	6847437	Chrysene-d12	3314871

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	Nonanamide	29478	001120-07-6	50.00
3	Pentanamide, 4-methyl-	7815	001119-29-5	50.00
4	Dodecanamide	60440	001120-16-7	42.00
5	Butanamide, 3-methyl-	4085	000541-46-8	38.00



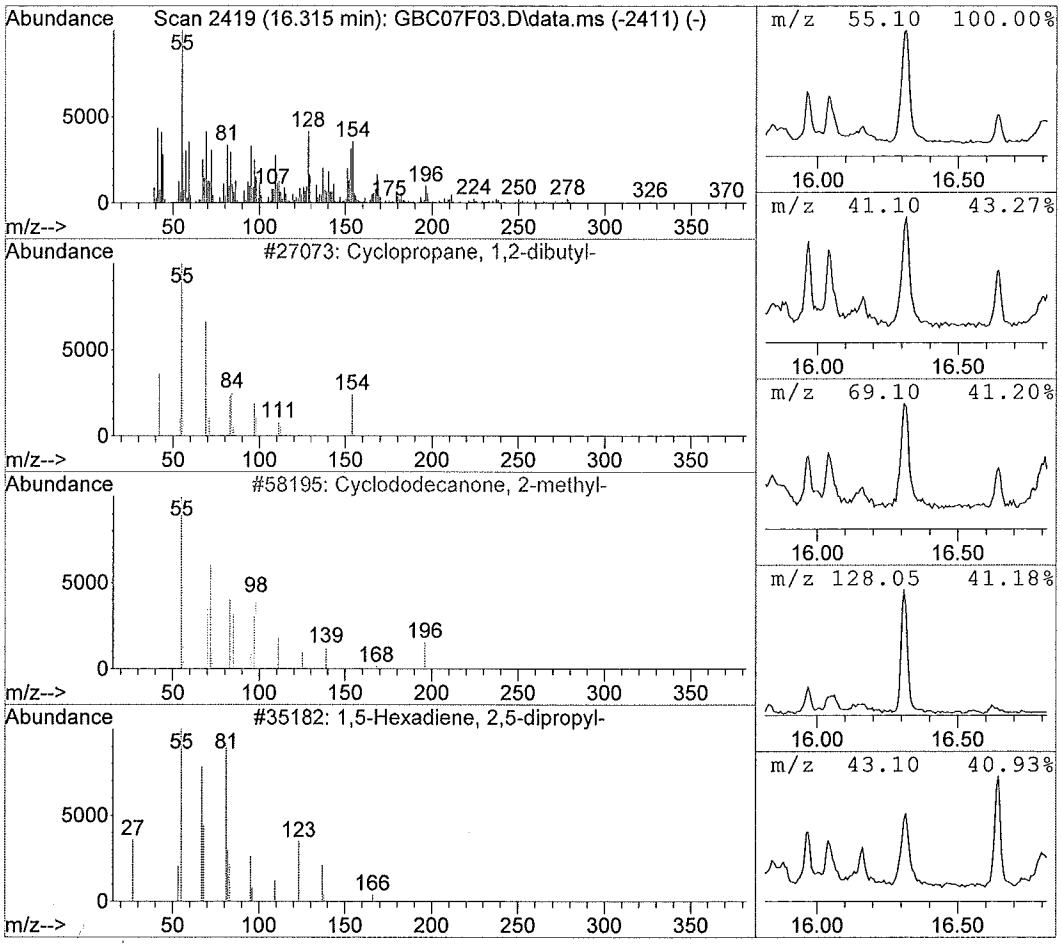
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	4.26 ug/ml	705609	Chrysene-d12	3314871

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclopropane, 1,2-dibutyl-	27073	041977-32-6	11.00
2	Cyclododecanone, 2-methyl-	58195	016837-94-8	11.00
3	1,5-Hexadiene, 2,5-dipropyl-	35182	1000158-33-4	11.00
4	E,E,Z-1,3,12-Nonadecatriene-5,14-di	139697	1000131-11-4	10.00
5	2-(4-Nitrobutyryl)cyclooctanone	94695	079630-93-6	10.00



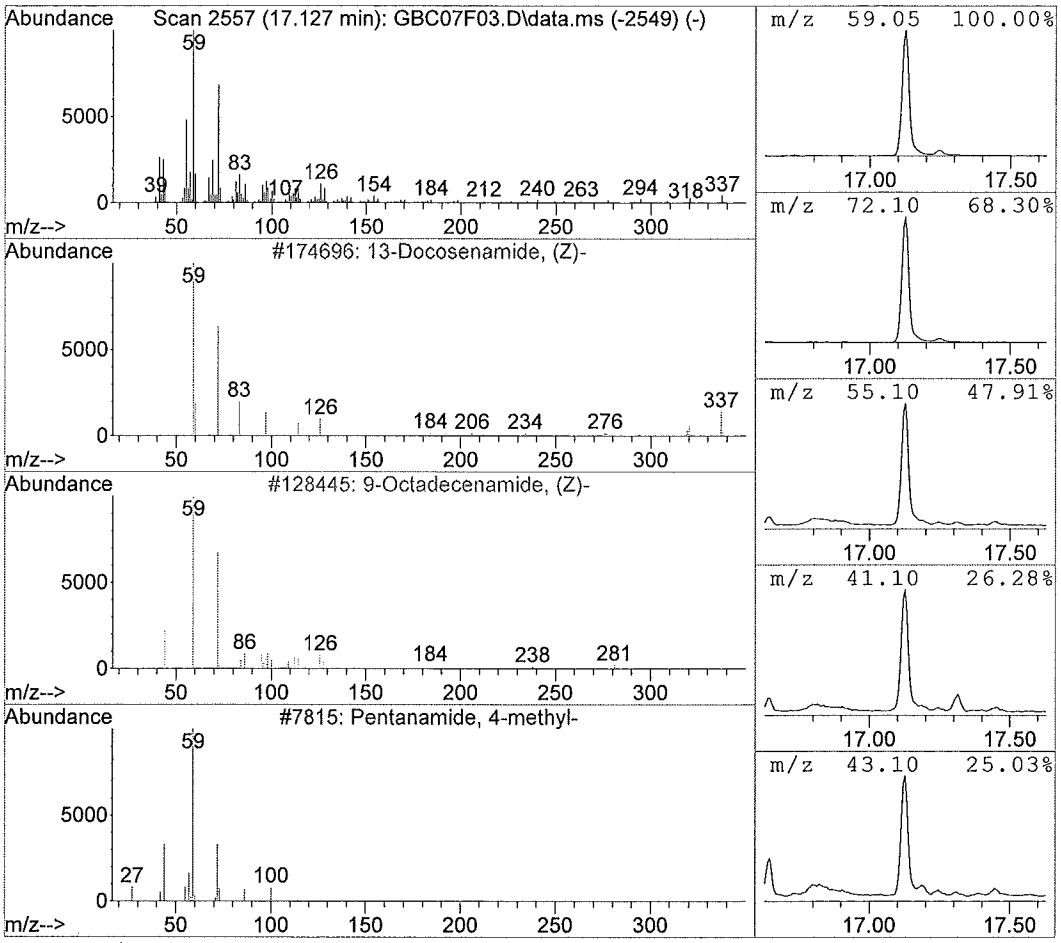
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.13	17.11 ug/ml	2863477	Perylene-d12	3346513

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174696	000112-84-5	95.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	91.00
3	Pentanamide, 4-methyl-	7815	001119-29-5	53.00
4	Dodecanamide	60440	001120-16-7	50.00
5	2-Hydroxy-2-methylundec-5-en-3-one	59566	1000191-46-2	35.00



Library Search Compound Report

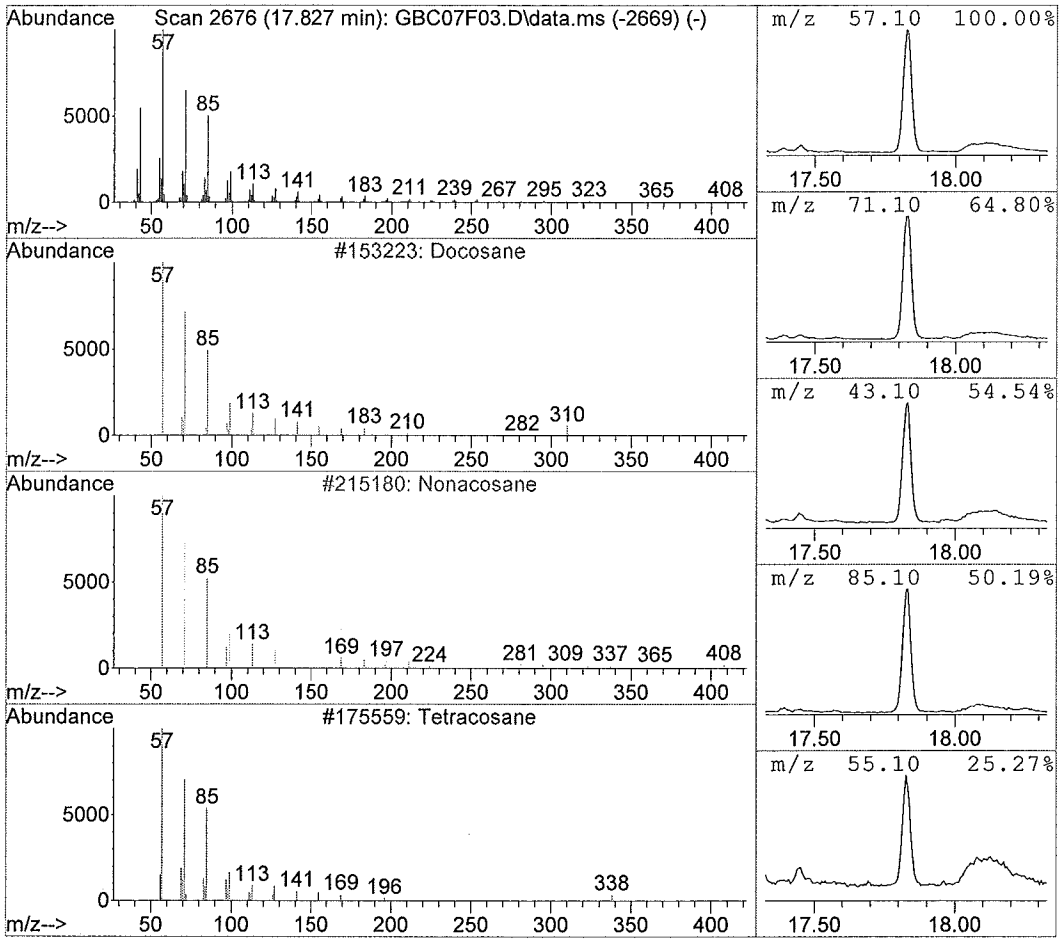
Data File : R:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	5.64 ug/ml	943501	Perylene-d12	3346513

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Docosane	153223	000629-97-0	98.00
2	Nonacosane	215180	000630-03-5	96.00
3	Tetracosane	175559	000646-31-1	94.00
4	Hexacosane	194493	000630-01-3	93.00
5	Heptadecane, 9-hexyl-	164584	055124-79-3	93.00

SCA



00119

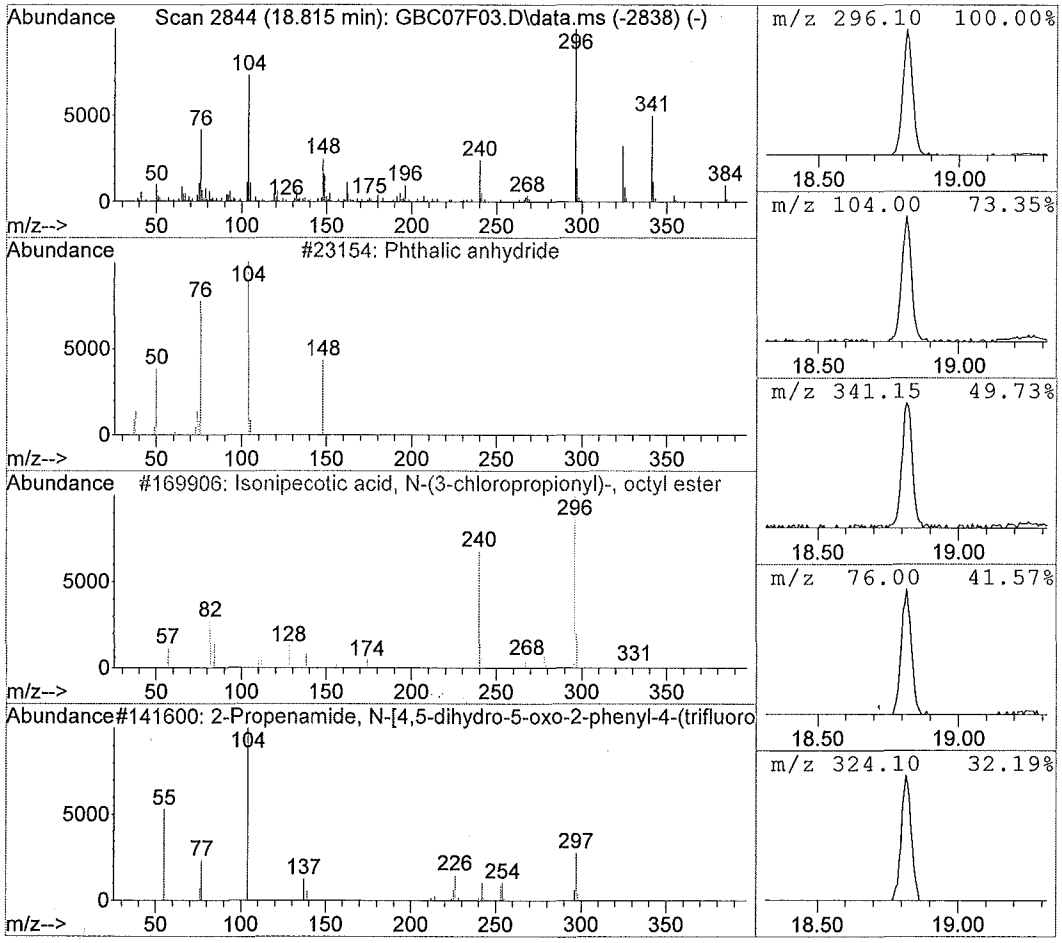
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	2.15 ug/ml	359222	Perylene-d12	3346513

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23154	000085-44-9	22.00
2	Isonipecotic acid, N-(3-chloropropi	169906	1000360-94-7	22.00
3	2-Propenamide, N-[4,5-dihydro-5-oxo	141600	1000350-88-9	14.00
4	1-Octadecanamine, N-(2-methoxypropy	187433	1000196-18-5	14.00
5	Benzene, 1,1'-(1,2-diethyl-1,2-ethe	141365	007773-34-4	14.00



Library Search Compound Report

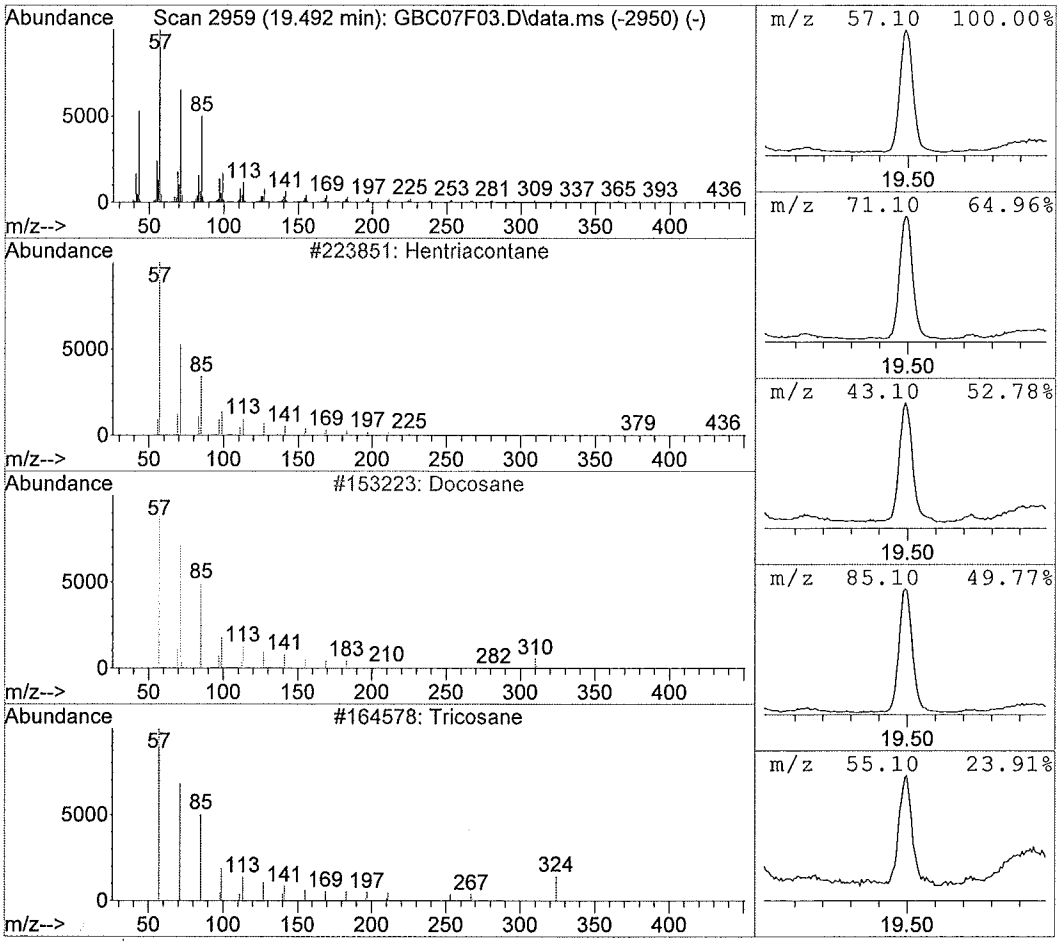
Data File : R:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.49	6.16 ug/ml	1030916	Perylene-d12	3346513

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hentriacontane	223851	000630-04-6	98.00
2	Docosane	153223	000629-97-0	98.00
3	Tricosane	164578	000638-67-5	97.00
4	Hexacosane	194493	000630-01-3	93.00
5	Tetratetracontane	241528	007098-22-8	91.00

SCA



00121

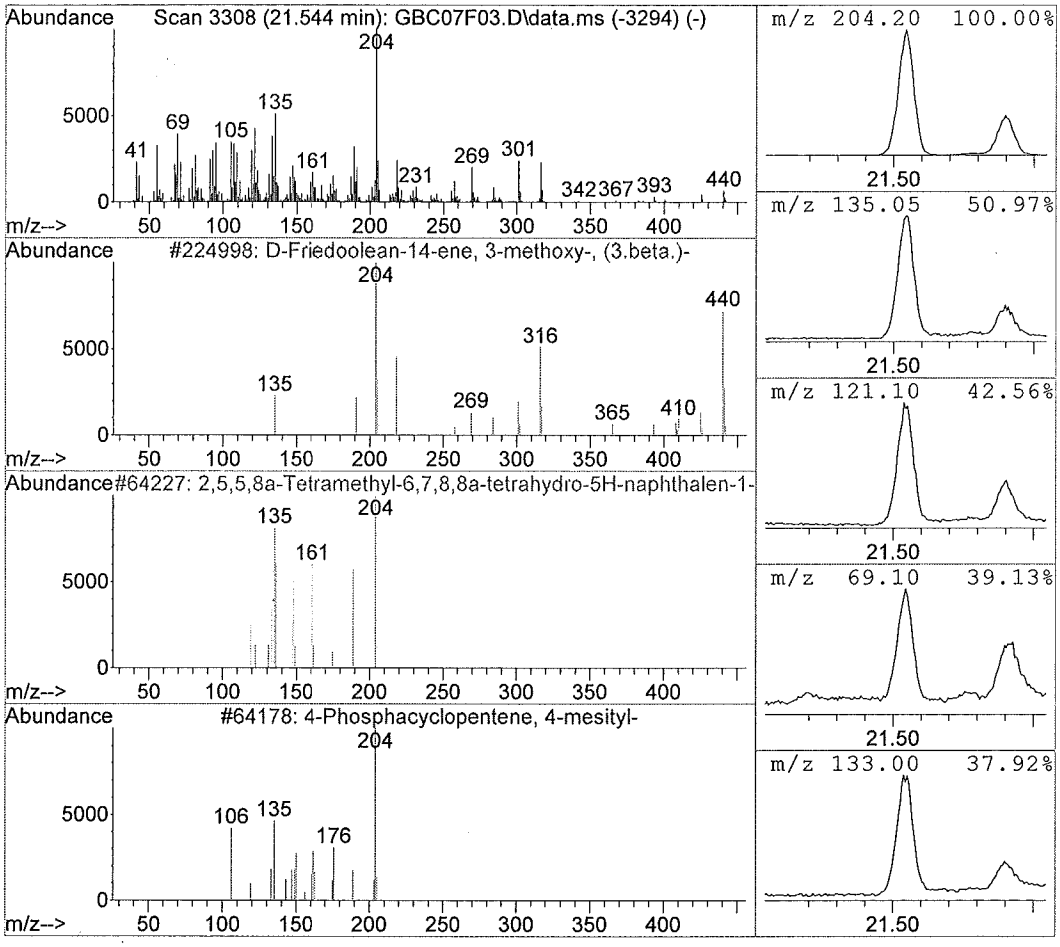
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	18.37 ug/ml	3073763	Perylene-d12	3346513

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	D-Friedoolean-14-ene, 3-methoxy-, (	224998	014021-23-9	55.00
2	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	45.00
3	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	43.00
4	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	43.00
5	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	38.00



Library Search Compound Report

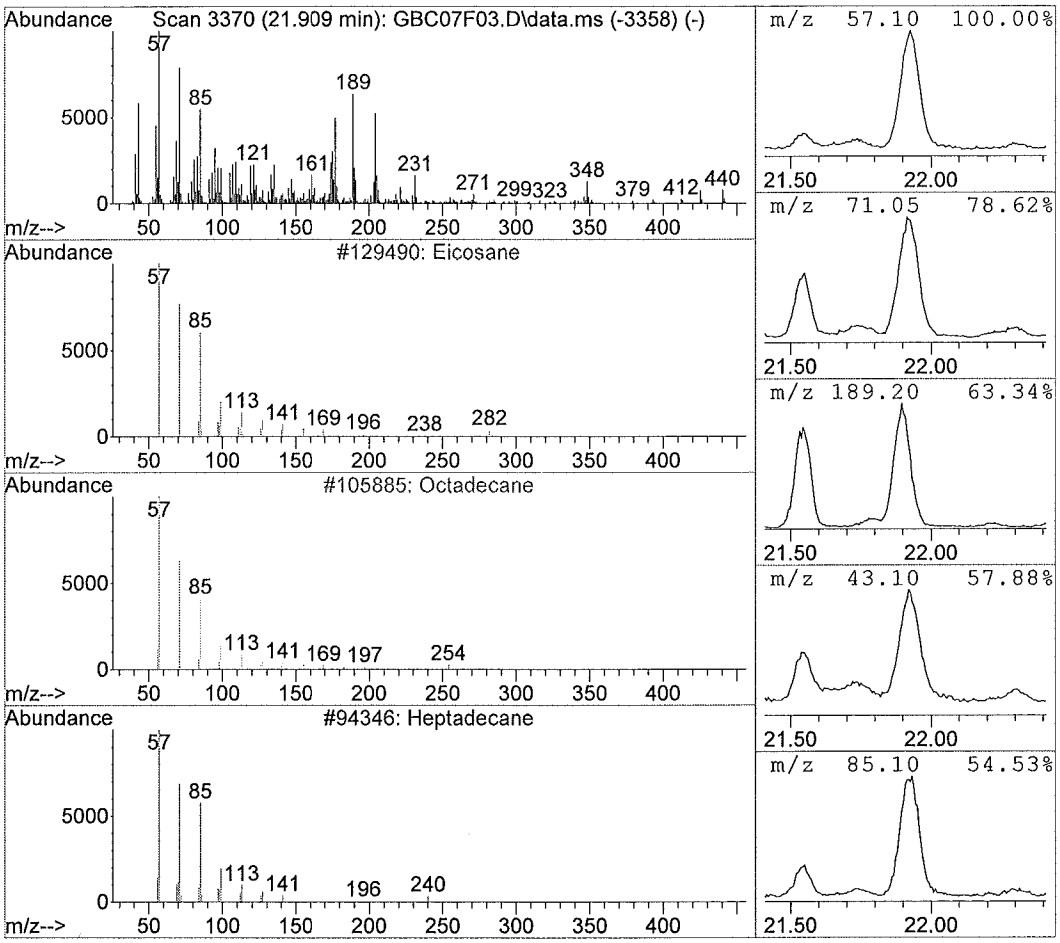
Data File : R:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.91	14.00 ug/ml	2342090	Perylene-d12	3346513

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane	129490	000112-95-8	94.00
2	Octadecane	105885	000593-45-3	93.00
3	Heptadecane	94346	000629-78-7	86.00
4	Nonadecane	117638	000629-92-5	86.00
5	Hexadecane	83023	000544-76-3	83.00

SCA



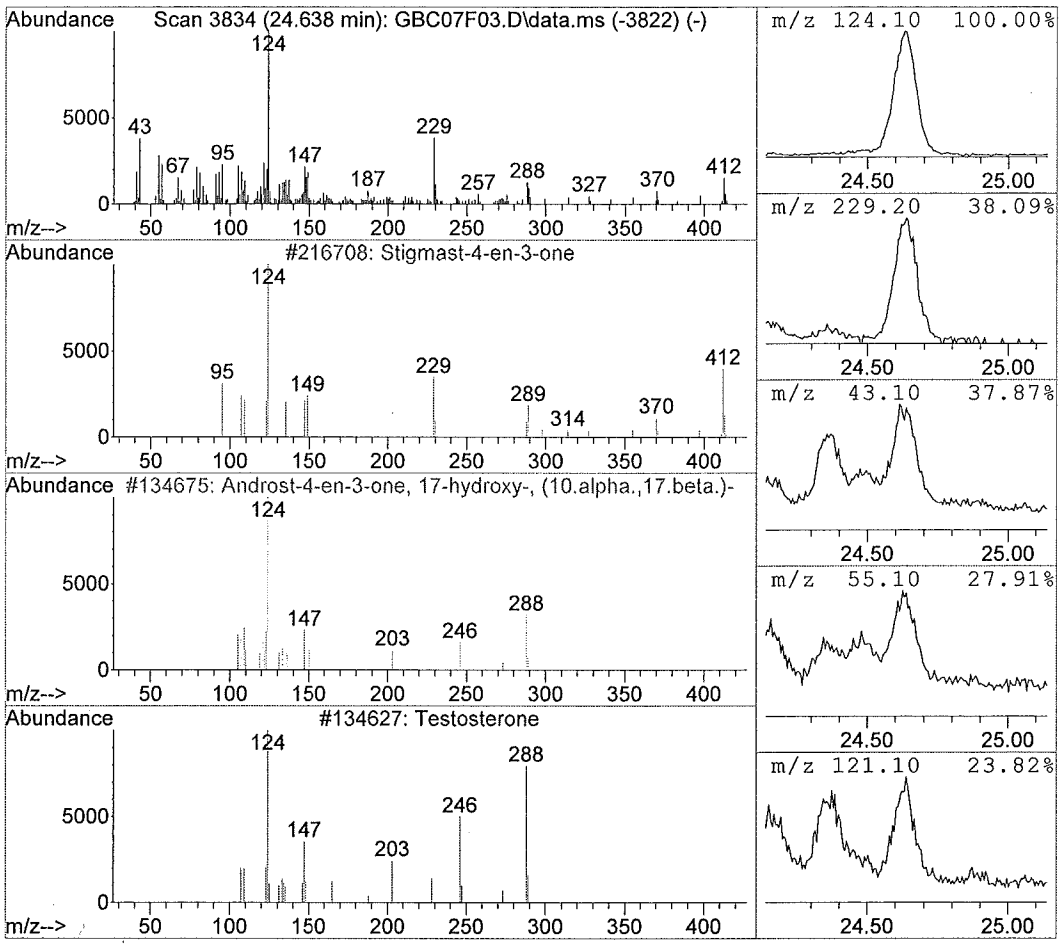
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	4.12 ug/ml	689882	Perylene-d12	3346513

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmast-4-en-3-one	216708	001058-61-3	90.00
2	Androst-4-en-3-one, 17-hydroxy-, (1	134675	000604-39-7	55.00
3	Testosterone	134627	000058-22-0	55.00
4	Testosterone cypionate	216680	000058-20-8	45.00
5	Pyrazine, 2-methoxy-3-methyl-	10350	002847-30-5	38.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L61

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293004

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC08F04

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	200	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L61

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293004

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC08F04

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9L61

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293004

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC08F04

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 2,2-dimethoxy-	2.12	410	JB
02	625-86-5	Furan, 2,5-dimethyl-	2.49	110	JN
03		Unknown 2-Pentanone, 4-hydroxy-	3.38	130	J
04		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.58	4400	J
05		Unknown 3-Hexene-2,5-dione	4.35	160	JB
06	638-58-4	Tetradecanamide	14.26	220	JN
07	301-02-0	9-Octadecenamide, (Z)-	15.17	1800	JNB
08		Unknown 9-Octadecenamide, (Z)-	15.97	100	JB
09	112-84-5	13-Docosenamide, (Z)-	17.13	800	JN
10		Unknown 1,2-Benzenedicarboxylic acid	18.82	280	J
11		Unknown D-Friedoolean-14-ene, 3-methoxy-, (3.bet	21.54	2000	J
12		Unknown Heptamethyl-3-phenyl-1,4-cyclohexadiene	21.73	91.	J
13		Unknown 1H-Cycloprop[e]azulene, 1a,2,3,4,4a,5,6,	21.89	360	J
14		Unknown 3-(2-Isopropyl-5-methylphenyl)-2-methyl-	22.21	160	J
15		Unknown Sesquirosefuran	23.22	100	J
16		Unknown 2,6-Bis(4-nitro-phenylthio)pyridine	23.69	460	J
17		Unknown D:C-Friedo-B':A'-neogammacer-9(11)-ene,	24.16	280	J
18		Unknown 9,11-Epoxytestosterone acetate	24.36	130	J
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	160	J

[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC08F04.D
Acq On : 06/02/2015 17:14
Sample : 1514293004 F9L61
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 7
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 14:38:42 2015 Results File: GSOM01D4.RES

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

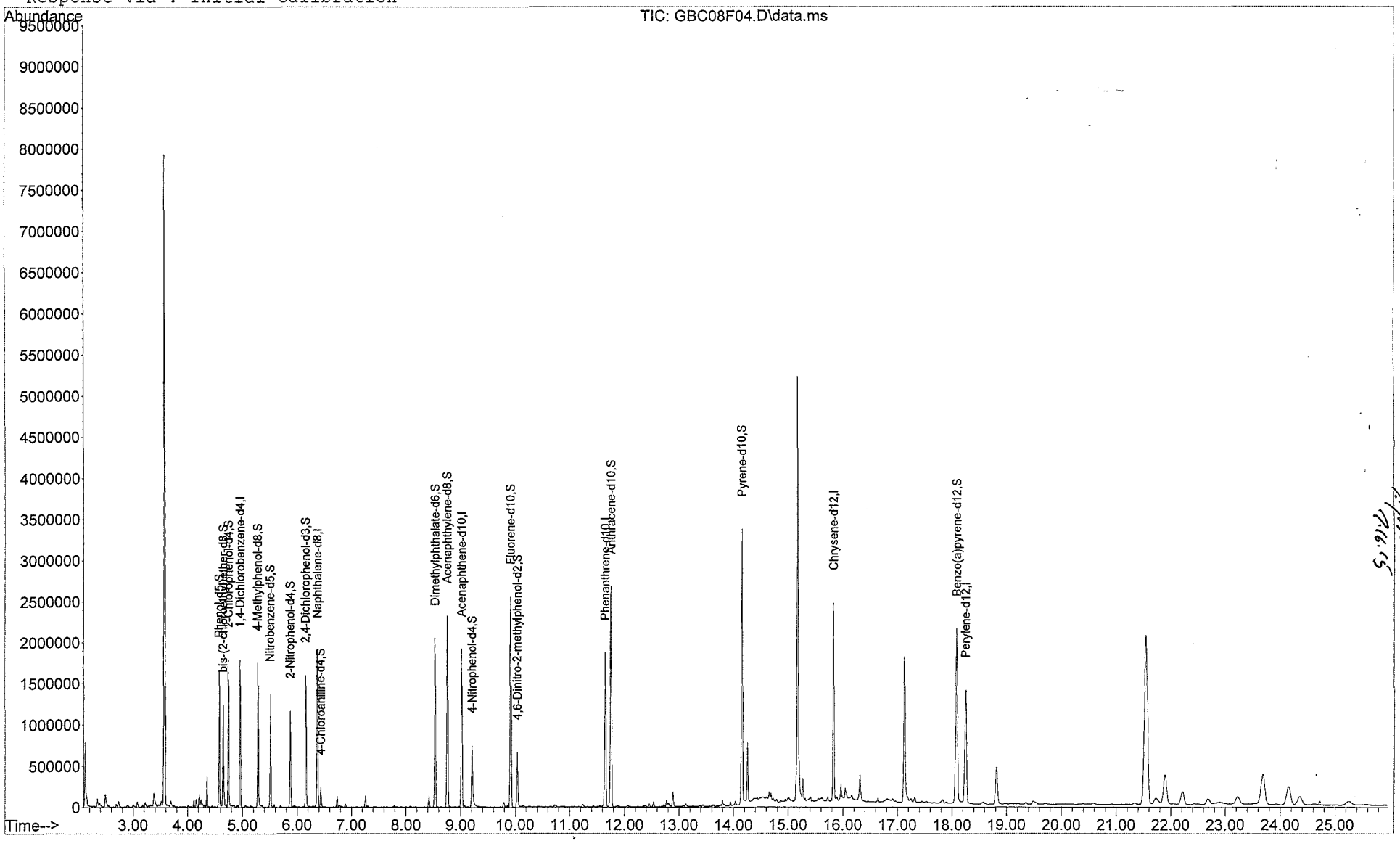


Fig. 5

Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:38:42 2015 Results File: GSOM01D4.RES

Method : R:\G\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	304655	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1158846	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	663786	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1104057	20.00 ug/ml
73) Chrysene-d12	15.83	240	1079683	20.00 ug/ml
81) Perylene-d12	18.25	264	1058588	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	599629	28.225ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	280608	21.571ug/mL
7) 2-Chlorophenol-d4	4.75	132	566323	27.150ug/ml
13) 4-Methylphenol-d8	5.28	113	444851	26.895ug/mL
17) Nitrobenzene-d5	5.51	128	253110	26.033ug/ml
21) 2-Nitrophenol-d4	5.87	143	304146	28.070ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	450283	28.368ug/mL
28) 4-Chloroaniline-d4	6.43	131	102465	5.951ug/mL
42) Dimethylphthalate-d6	8.53	166	1293934	32.053ug/mL
45) Acenaphthylene-d8	8.76	160	1541532	28.613ug/mL
50) 4-Nitrophenol-d4	9.21	143	251226	29.224ug/mL
57) Fluorene-d10	9.92	176	1068968	30.487ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	161970	22.334ug/mL
69) Anthracene-d10	11.76	188	1748967	31.316ug/mL
75) Pyrene-d10	14.16	212	1566820	31.920ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1522350	31.704ug/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)

: 00129

Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:38:42 2015 Results File: GSOM01D4.RES

Method : R:\G\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)

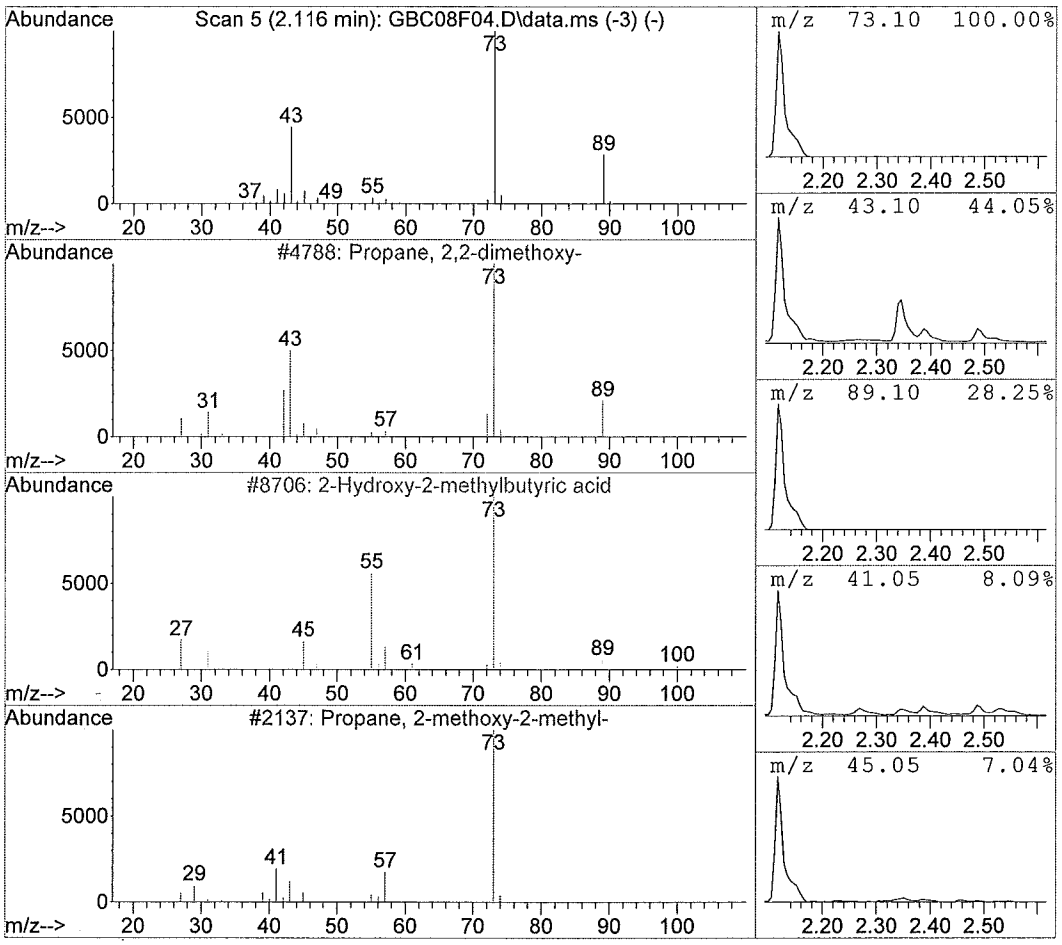
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.12	10.36 ug/ml	892285	1,4-Dichlorobenzene-d4	1723063

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 2,2-dimethoxy-	4788	000077-76-9	36.00
2	2-Hydroxy-2-methylbutyric acid	8706	003739-30-8	9.00
3	Propane, 2-methoxy-2-methyl-	2137	001634-04-4	9.00
4	Pentane, 3-methoxy-	4436	036839-67-5	9.00
5	Methane, isothiocyanato-	716	000556-61-6	7.00



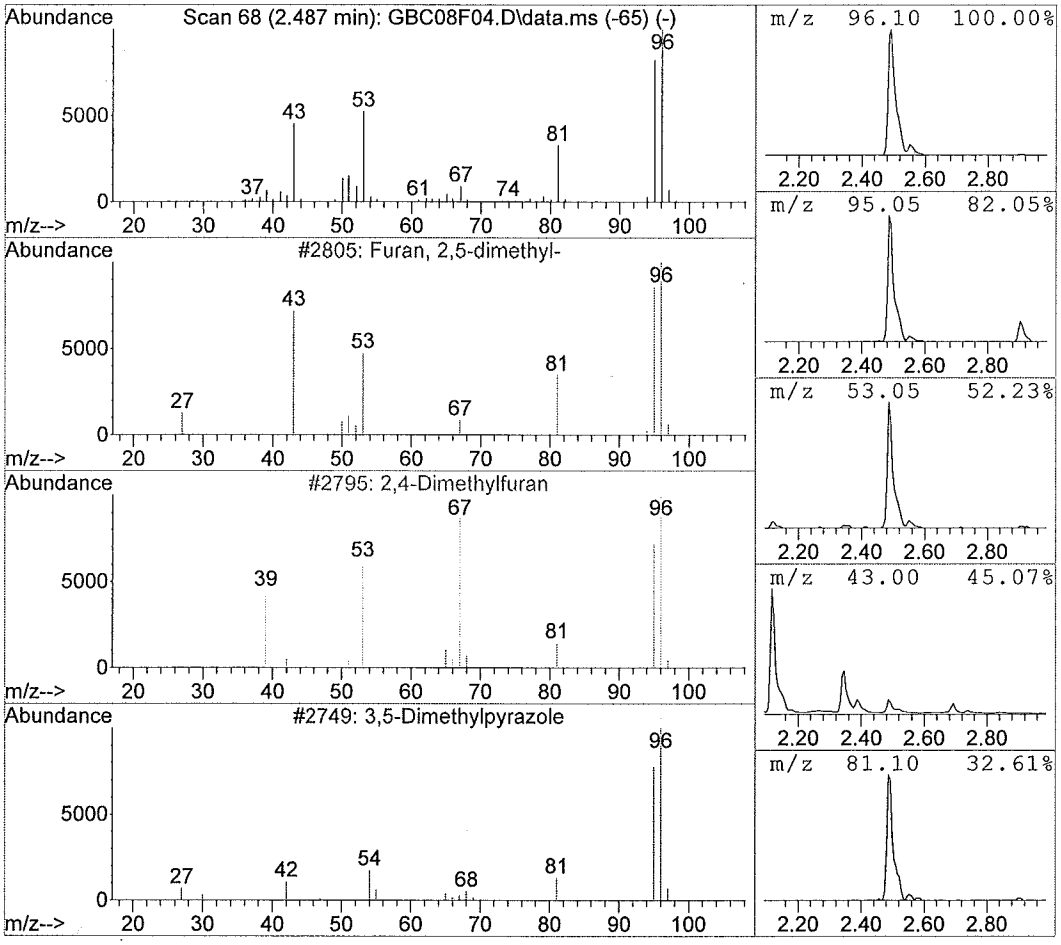
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	2.73 ug/ml	235407	1,4-Dichlorobenzene-d4	1723063

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Furan, 2,5-dimethyl-	2805	000625-86-5	94.00
2	2,4-Dimethylfuran	2795	003710-43-8	43.00
3	3,5-Dimethylpyrazole	2749	000067-51-6	38.00
4	1H-Pyrazole, 1,5-dimethyl-	2760	000694-31-5	38.00
5	1H-Pyrazole, 1,3-dimethyl-	2761	000694-48-4	38.00



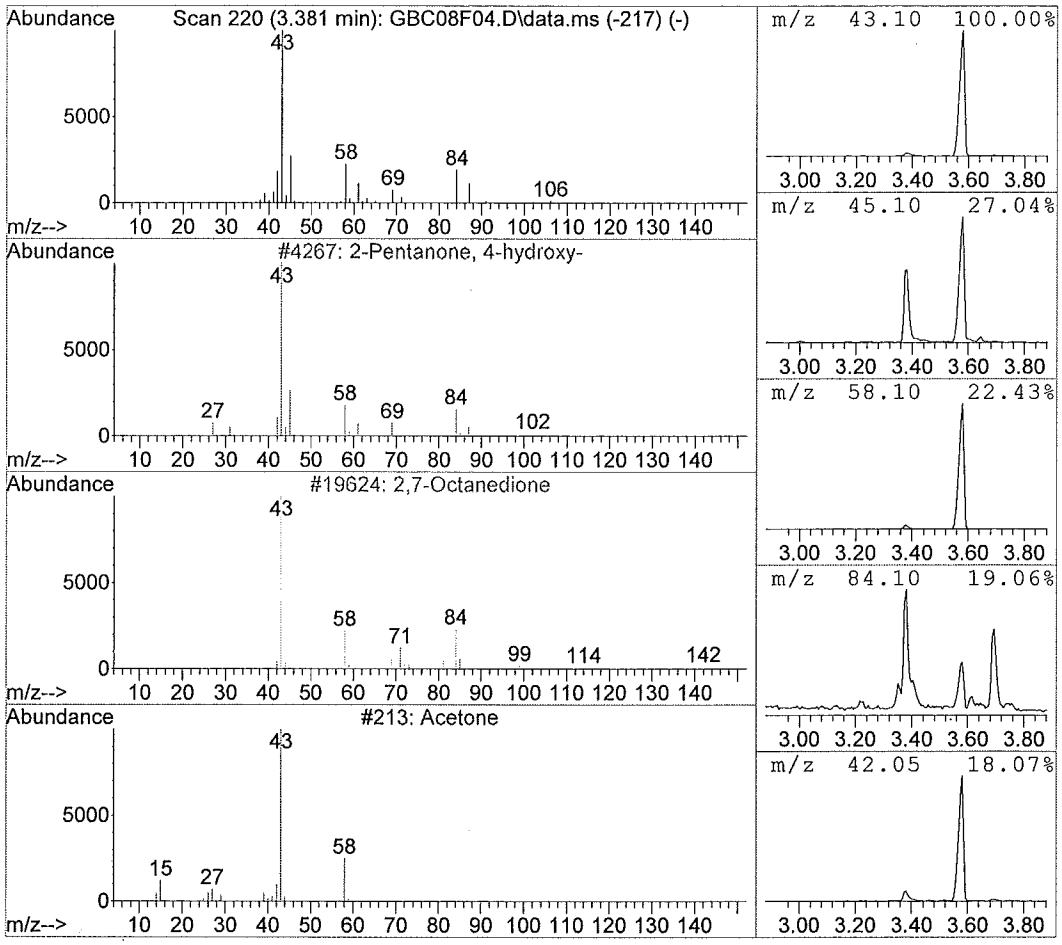
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	3.27 ug/ml	281531	1,4-Dichlorobenzene-d4	1723063

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	16.00
4	Propane, 1-(1-methylethoxy)-	4493	000627-08-7	9.00
5	Isopropyl acetate	4253	000108-21-4	9.00



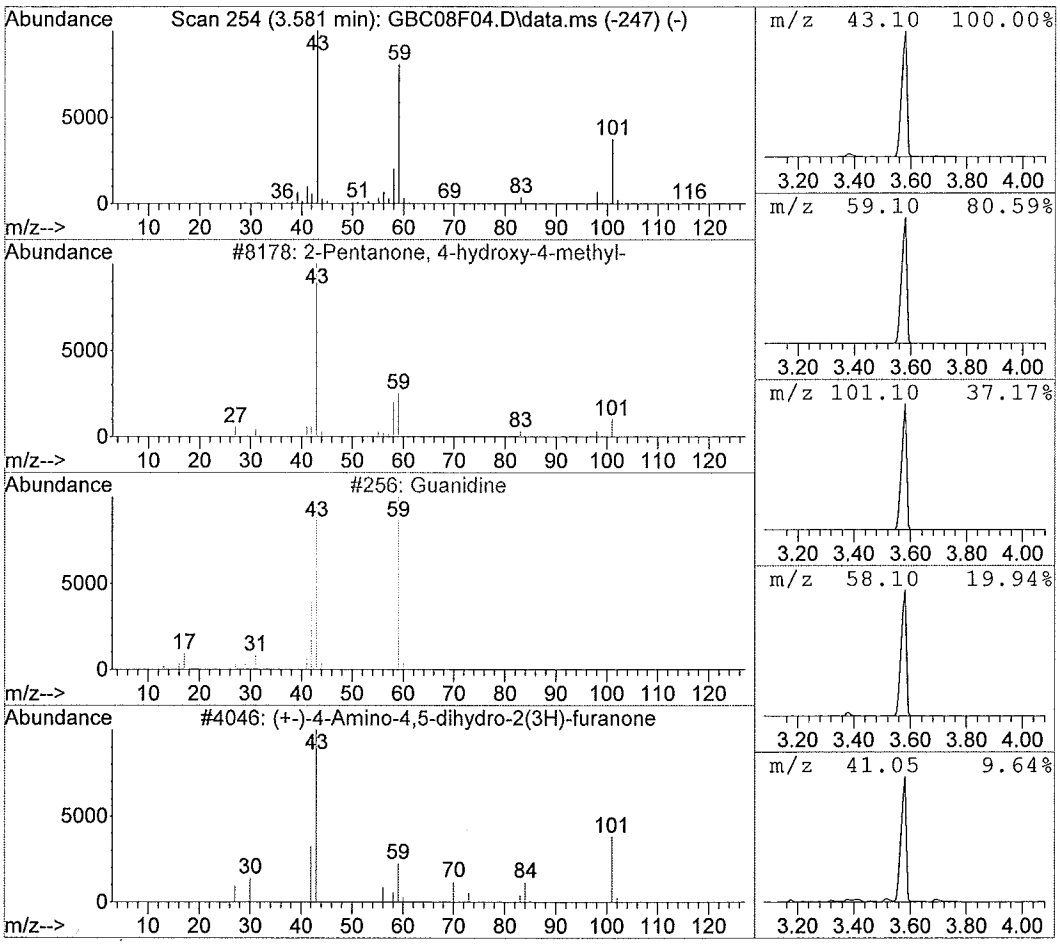
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	112.93 ug/ml	9729498	1,4-Dichlorobenzene-d4	1723063

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	Morpholine, 4-methyl-	4076	000109-02-4	9.00



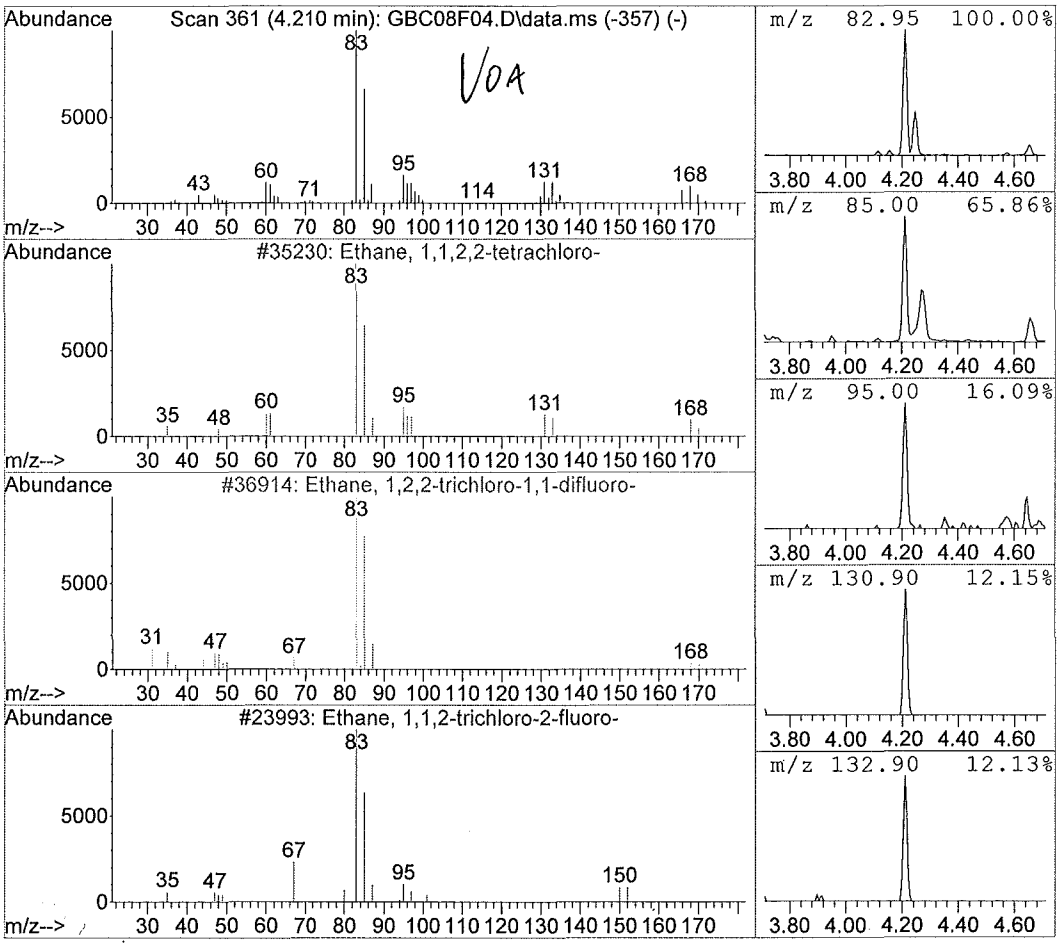
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.21	2.12 ug/ml	182438	1,4-Dichlorobenzene-d4	1723063

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	35230	000079-34-5	97.00
2	Ethane, 1,2,2-trichloro-1,1-difluor	36914	000354-21-2	64.00
3	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	59.00
4	Methane, bromodichloro-	32802	000075-27-4	50.00
5	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	42.00



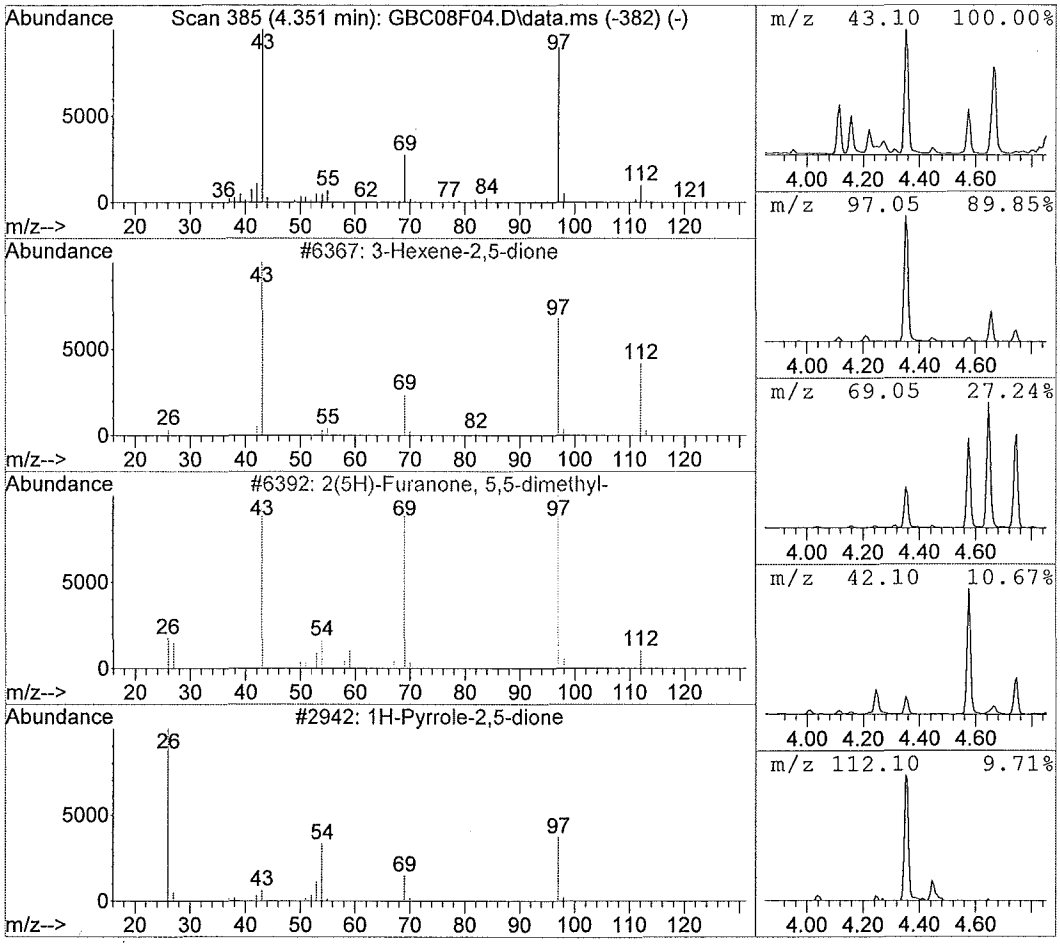
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	4.07 ug/ml	350265	1,4-Dichlorobenzene-d4	1723063

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	2942	000541-59-3	53.00
4	1-(Trimethylsilyl)-1-propyne	6338	006224-91-5	36.00
5	2-Pyrazoline, 1,4,5-trimethyl-	6304	007423-11-2	10.00



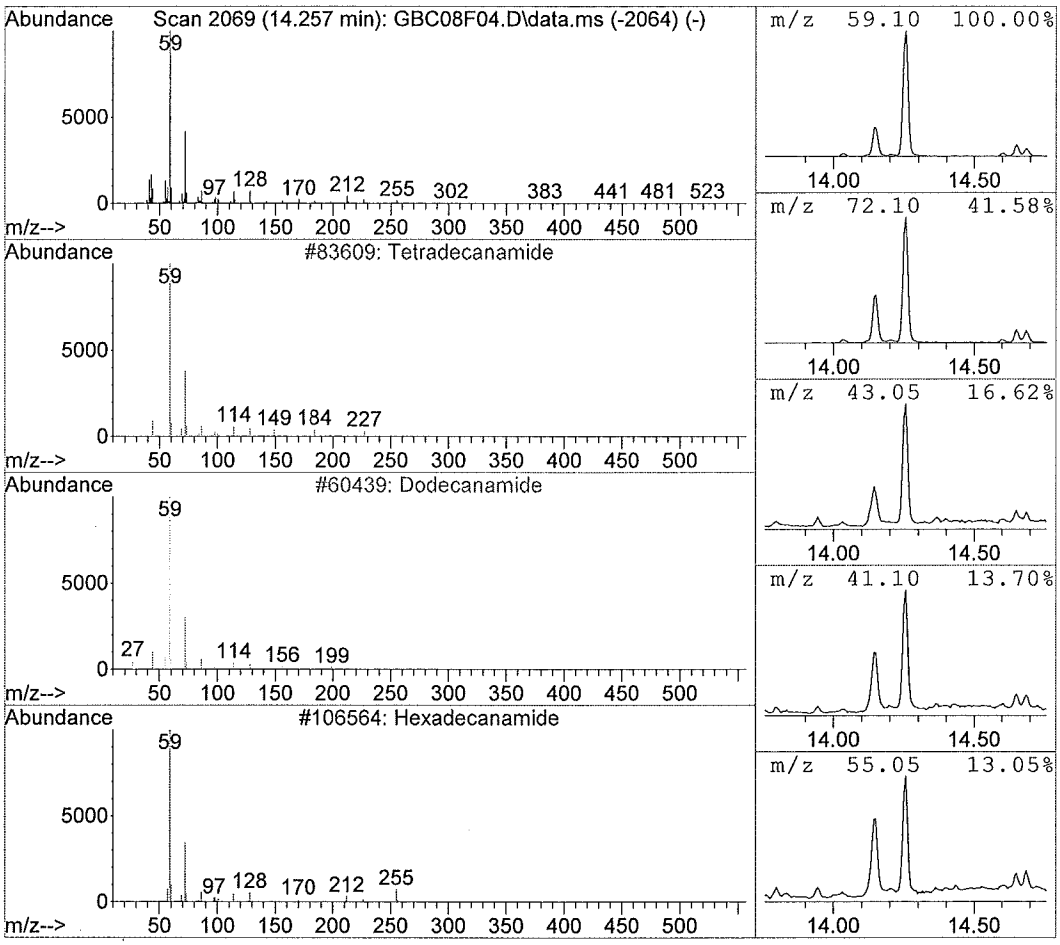
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.26	5.59 ug/ml	865137	Chrysene-d12	3092967

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83609	000638-58-4	86.00
2	Dodecanamide	60439	001120-16-7	78.00
3	Hexadecanamide	106564	000629-54-9	70.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	56.00



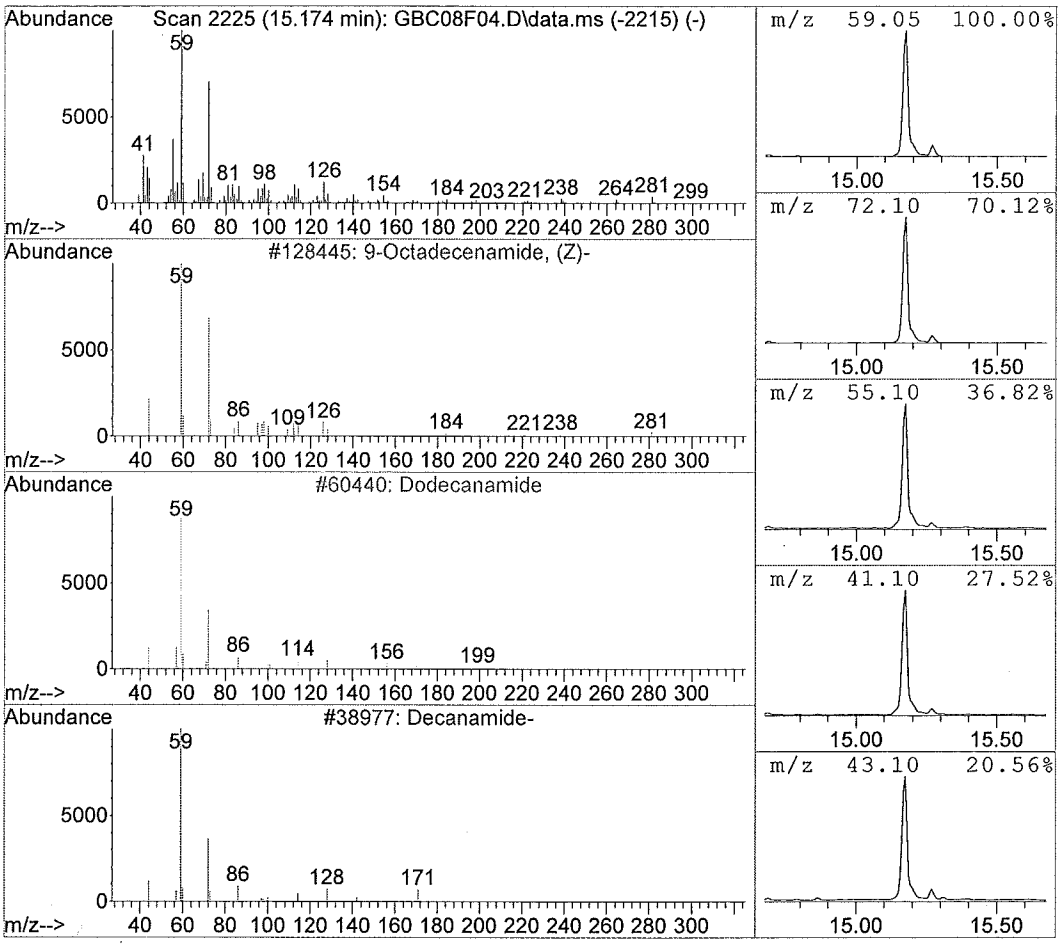
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	46.16 ug/ml	7138565	Chrysene-d12	3092967

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	98.00
2	Dodecanamide	60440	001120-16-7	50.00
3	Decanamide-	38977	002319-29-1	50.00
4	Octanamide	20317	000629-01-6	50.00
5	Pentanamide	4064	000626-97-1	50.00



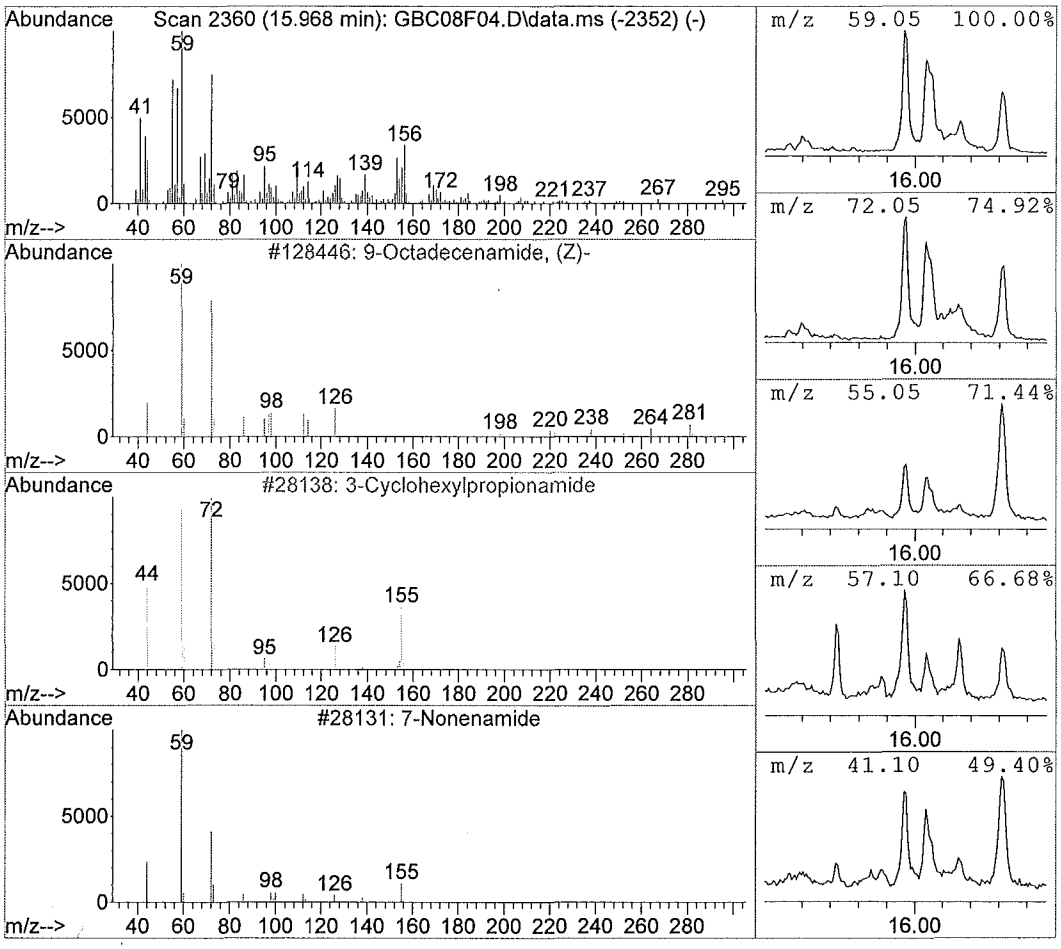
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.97	2.66 ug/ml	412003	Chrysene-d12	3092967

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128446	000301-02-0	52.00
2	3-Cyclohexylpropionamide	28138	004361-29-9	46.00
3	7-Nonenamide	28131	090949-53-4	45.00
4	Dodecanamide	60439	001120-16-7	43.00
5	Tetradecanamide	83610	000638-58-4	43.00



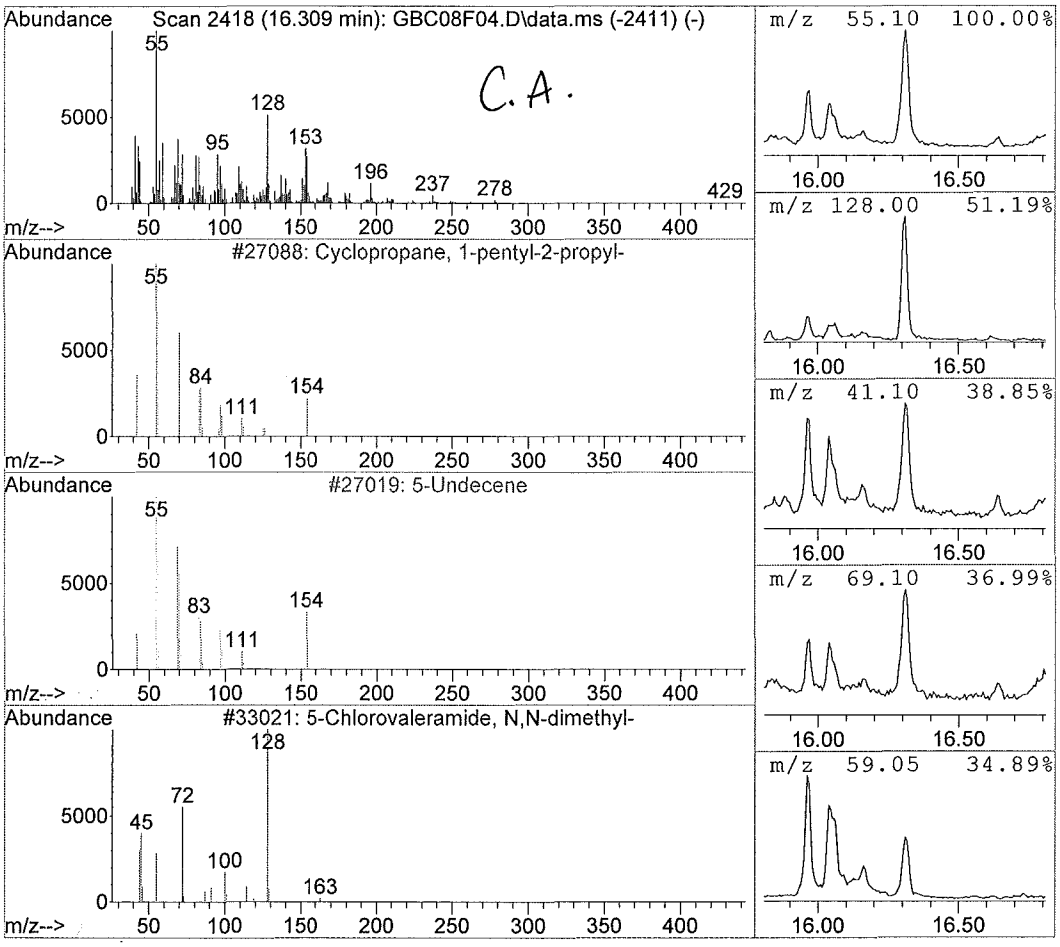
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.31	4.07 ug/ml	630054	Chrysene-d12	3092967

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclopropane, 1-pentyl-2-propyl-	27088	041977-33-7	25.00
2	5-Undecene	27019	004941-53-1	15.00
3	5-Chlorovaleramide, N,N-dimethyl-	33021	1000339-95-2	14.00
4	1,4-Benzenedicarbonitrile, 2-formyl	29171	164932-42-7	11.00
5	2,6-Decadienoic acid, 3-methyl-, et	69362	055283-33-5	11.00



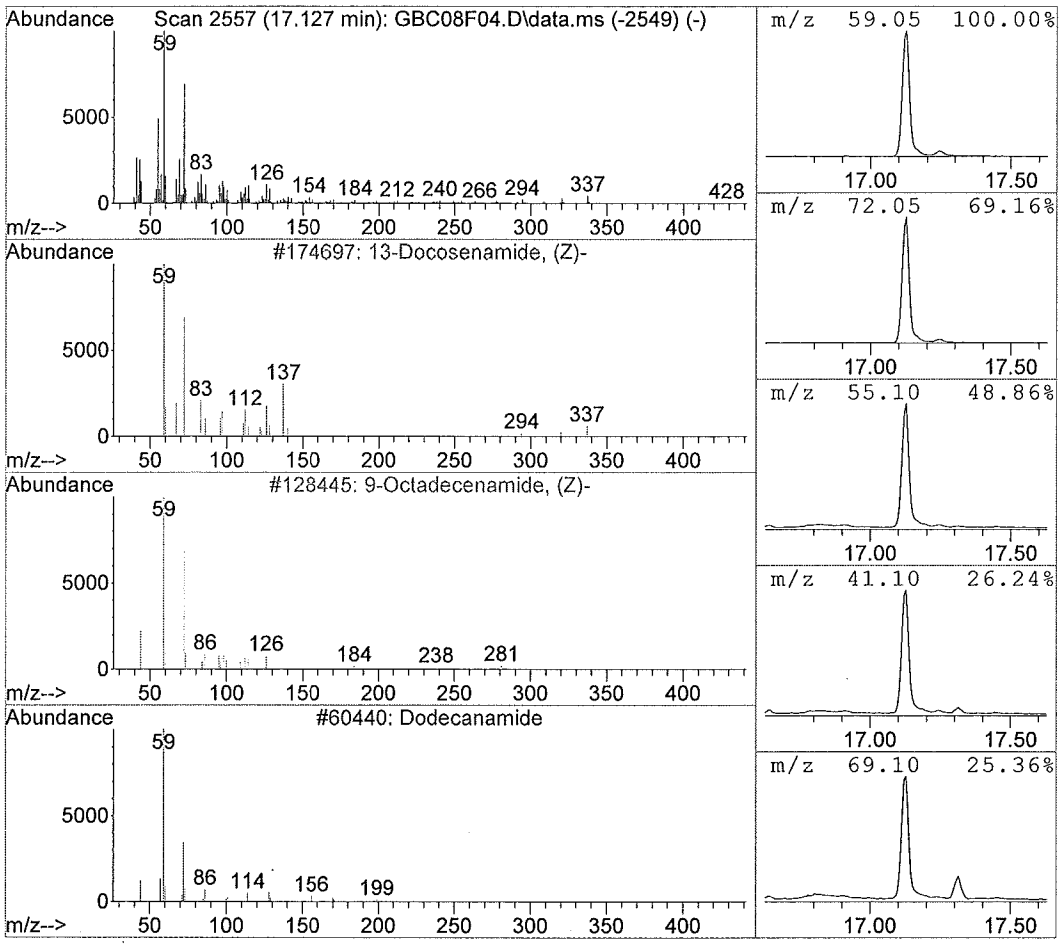
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.13	20.53 ug/ml	3271298	Perylene-d12	3186608

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174697	000112-84-5	93.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	91.00
3	Dodecanamide	60440	001120-16-7	50.00
4	4-Ethyl-3-octanol	29613	019781-26-1	35.00
5	trans-13-Docosenamide	174694	010436-09-6	35.00



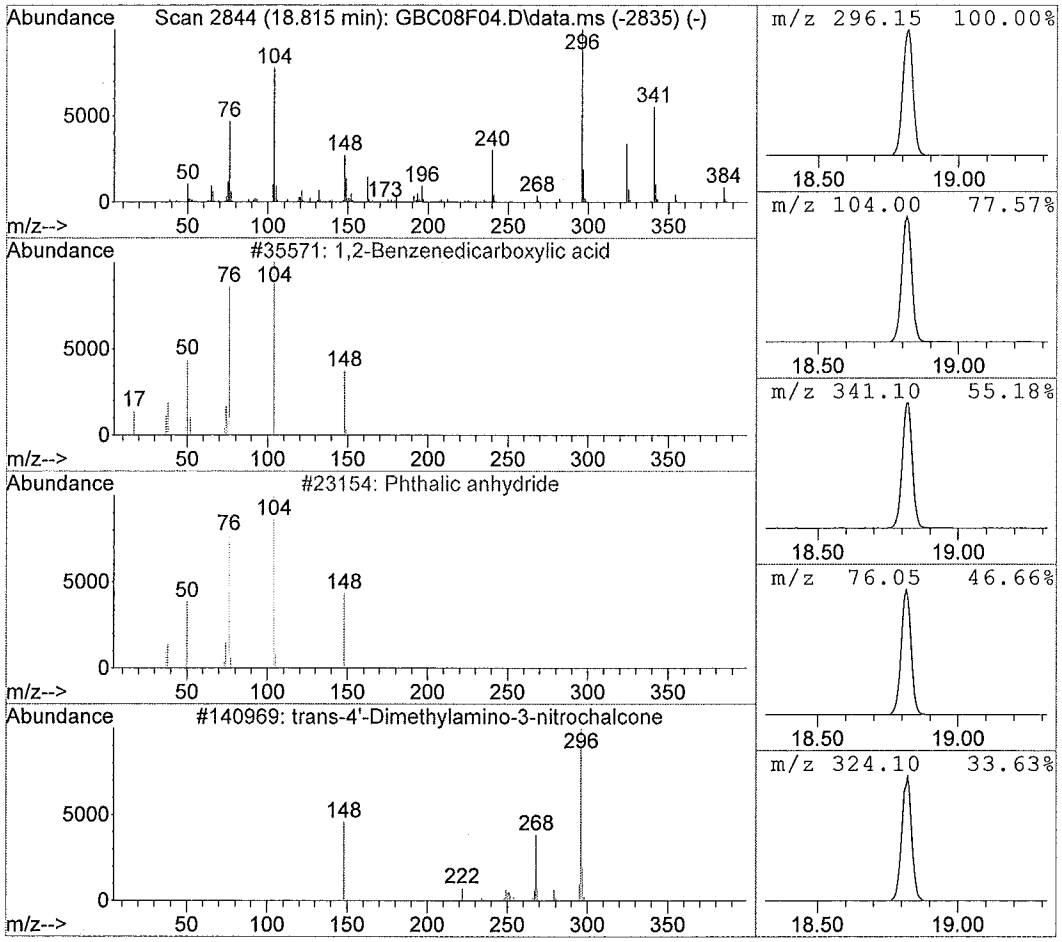
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	7.07 ug/ml	1126677	Perylene-d12	3186608

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Benzenedicarboxylic acid	35571	000088-99-3	27.00
2	Phthalic anhydride	23154	000085-44-9	27.00
3	trans-4'-Dimethylamino-3-nitrochalc	140969	1000234-56-7	22.00
4	N,N'-Bis(2-hydroxy-alpha-methylbenz	141160	005464-60-8	22.00
5	Benzo[c]thiophen-1(3H)-one, 3-(3-ox	140932	023667-32-5	22.00



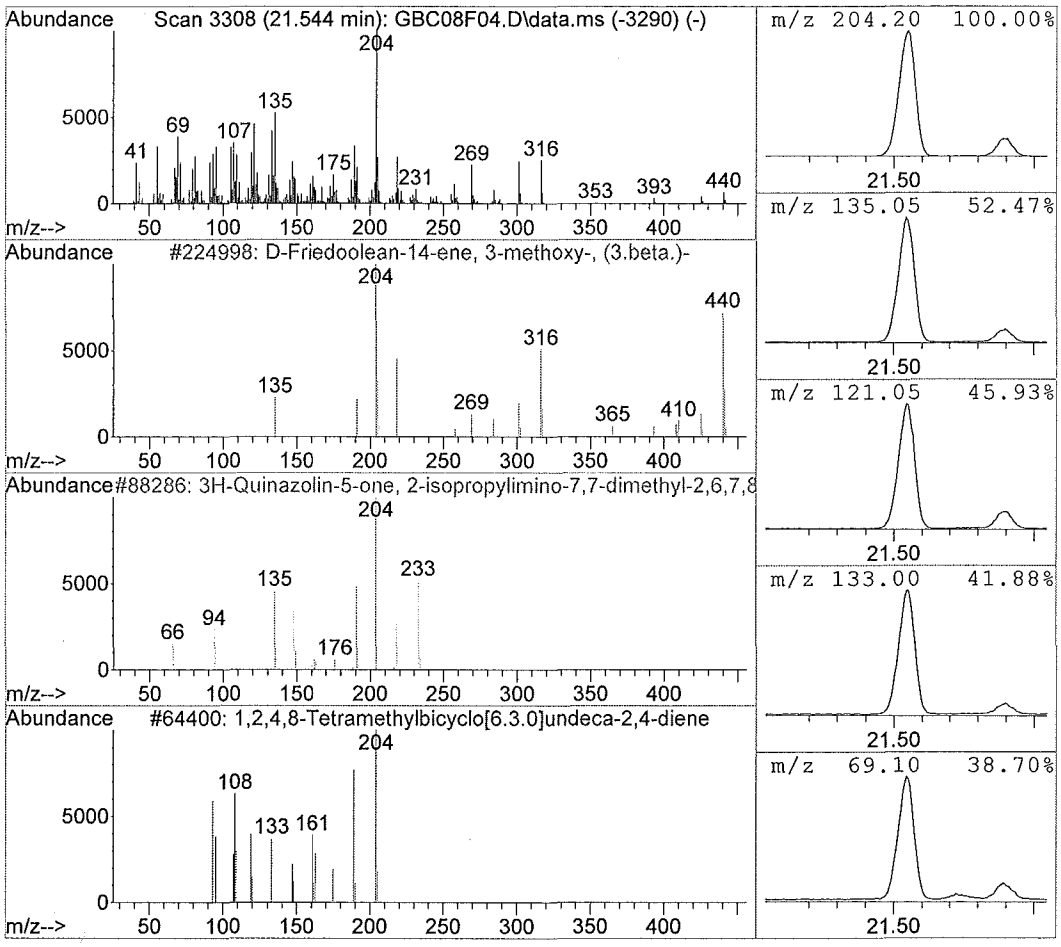
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	51.97 ug/ml	8281118	Perylene-d12	3186608

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	D-Friedoolean-14-ene, 3-methoxy-, (	224998	014021-23-9	60.00
2	3H-Quinazolin-5-one, 2-isopropylimi	88286	1000303-22-6	47.00
3	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	46.00
4	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	46.00
5	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	43.00



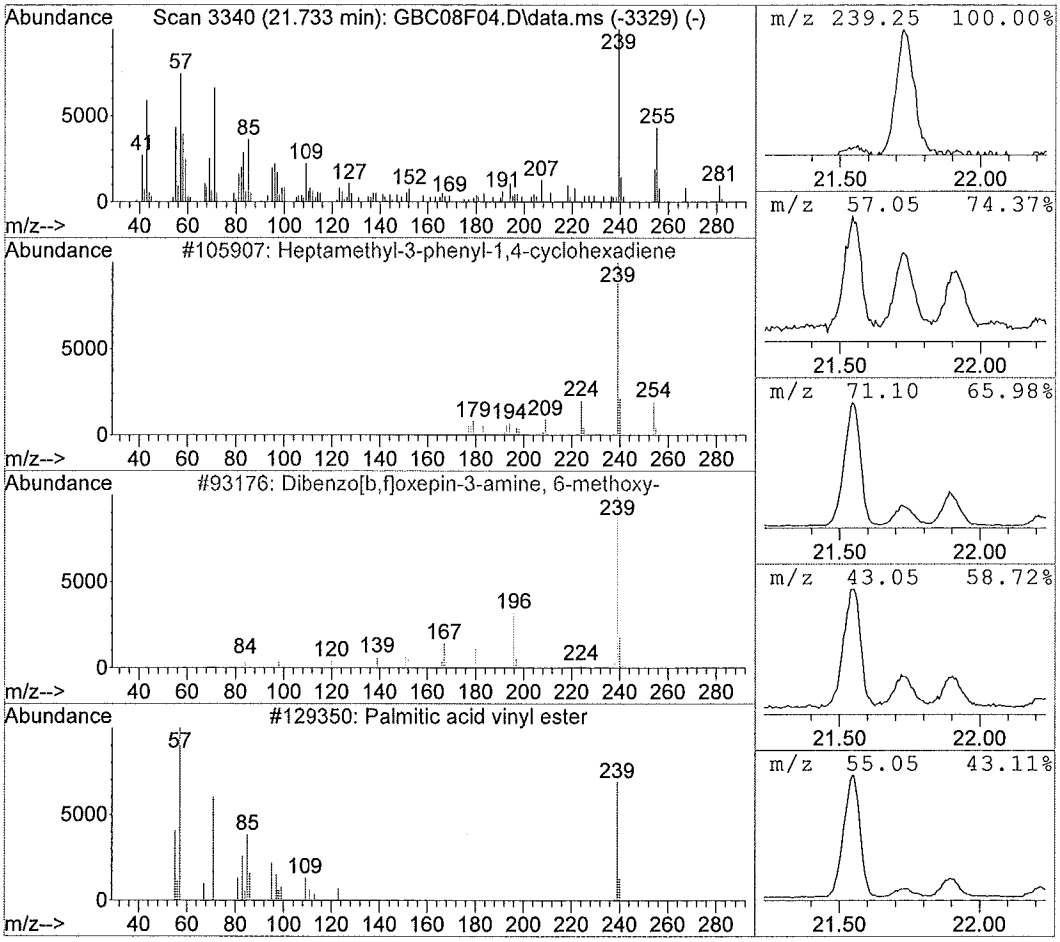
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	2.33 ug/ml	370908	Perylene-d12	3186608

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptamethyl-3-phenyl-1,4-cyclohexad	105907	122531-52-6	35.00
2	Dibenzo[b,f]oxepin-3-amine, 6-metho	93176	1000338-08-4	30.00
3	Palmitic acid vinyl ester	129350	000693-38-9	30.00
4	16-Hexadecanoyl hydrazide	119244	002619-88-7	27.00
5	Imidazo[1,2-a]pyridin-8-amine, 2-(3	93114	1000277-15-5	27.00



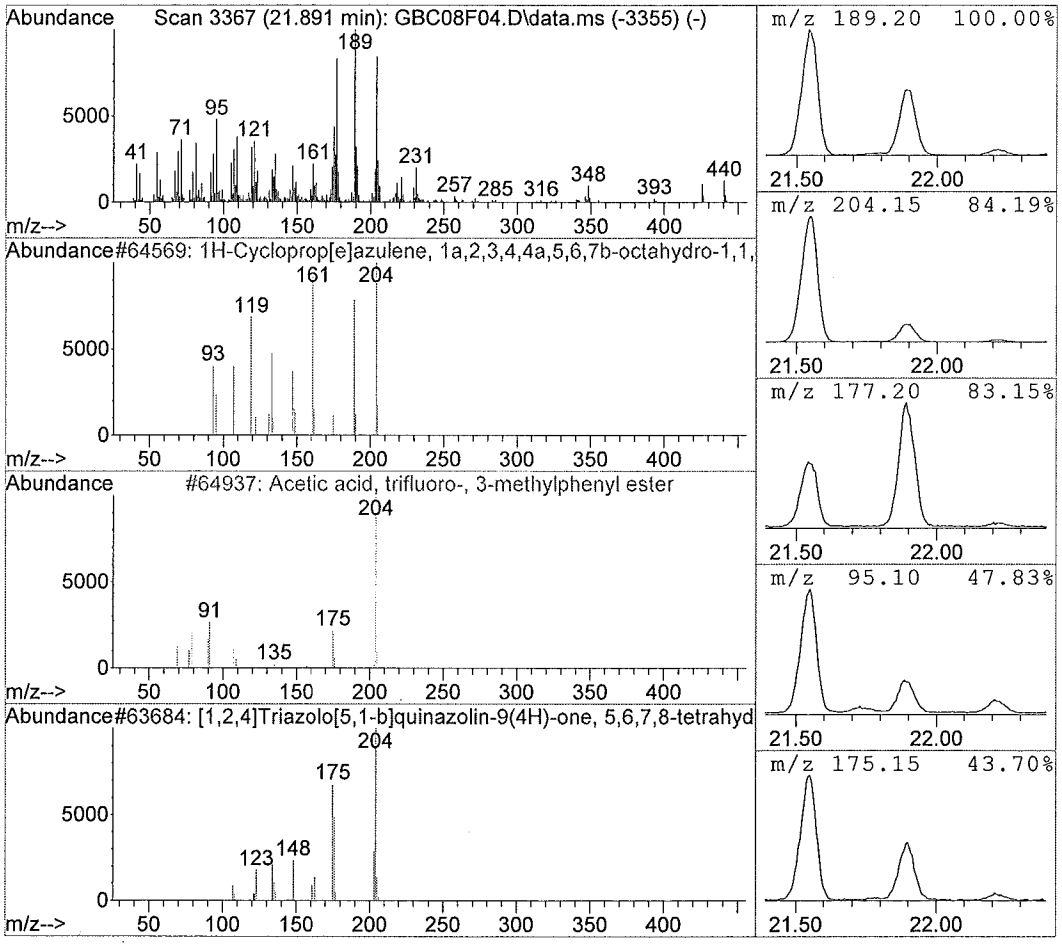
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.89	9.25 ug/ml	1473745	Perylene-d12	3186608

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64569	000489-40-7	30.00
2	Acetic acid, trifluoro-, 3-methylph	64937	001736-09-0	25.00
3	[1,2,4]Triazolo[5,1-b]quinazolin-9(	63684	1000337-56-5	25.00
4	8-Amino-2-hydroxymethyl-6-methoxyqu	63856	1000214-27-5	22.00
5	1H-3a,7-Methanoazulen-6-ol, octahyd	114222	000077-54-3	22.00



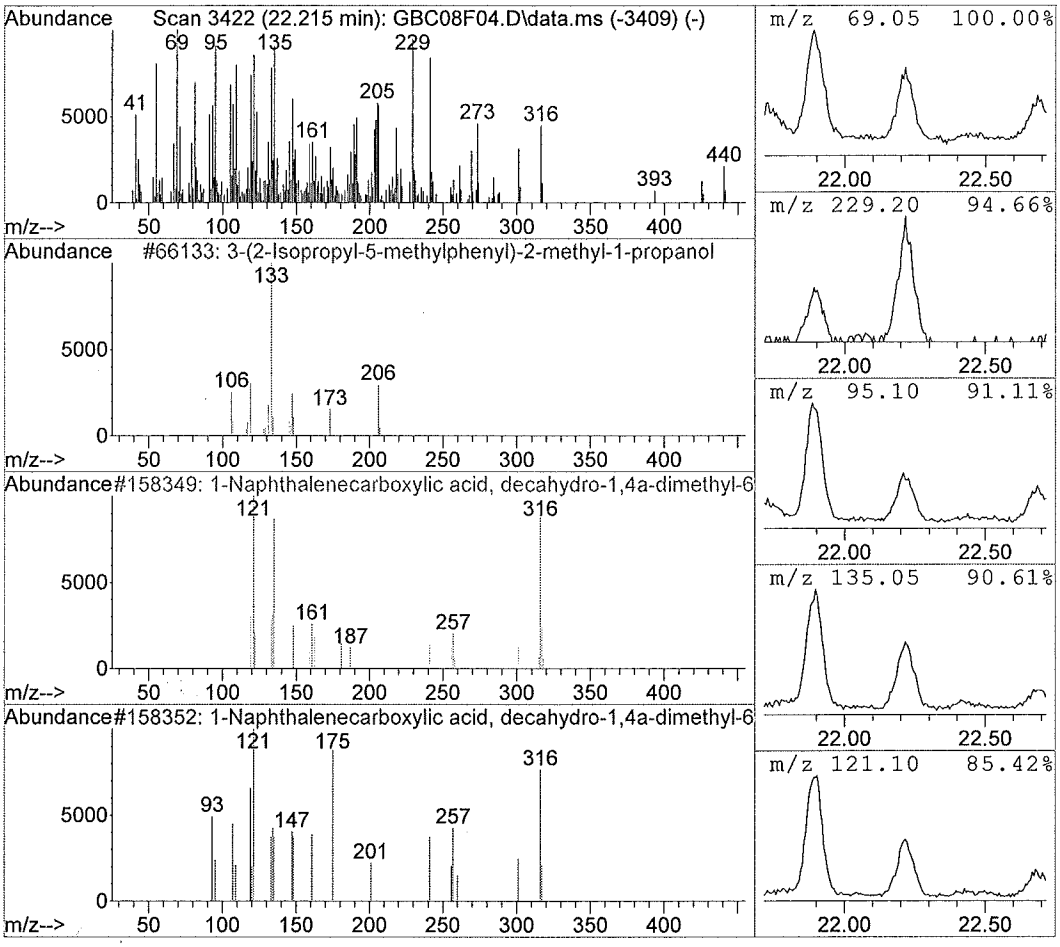
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.21	4.04 ug/ml	643791	Perylene-d12	3186608

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-(2-Isopropyl-5-methylphenyl)-2-me	66133	022291-56-1	40.00
2	1-Naphthalenecarboxylic acid, decah	158349	001235-39-8	38.00
3	1-Naphthalenecarboxylic acid, decah	158352	015798-13-7	38.00
4	Thujopsene-(I2)	64296	1000152-20-4	27.00
5	Farnesyl bromide	130771	006874-67-5	25.00



Library Search Compound Report

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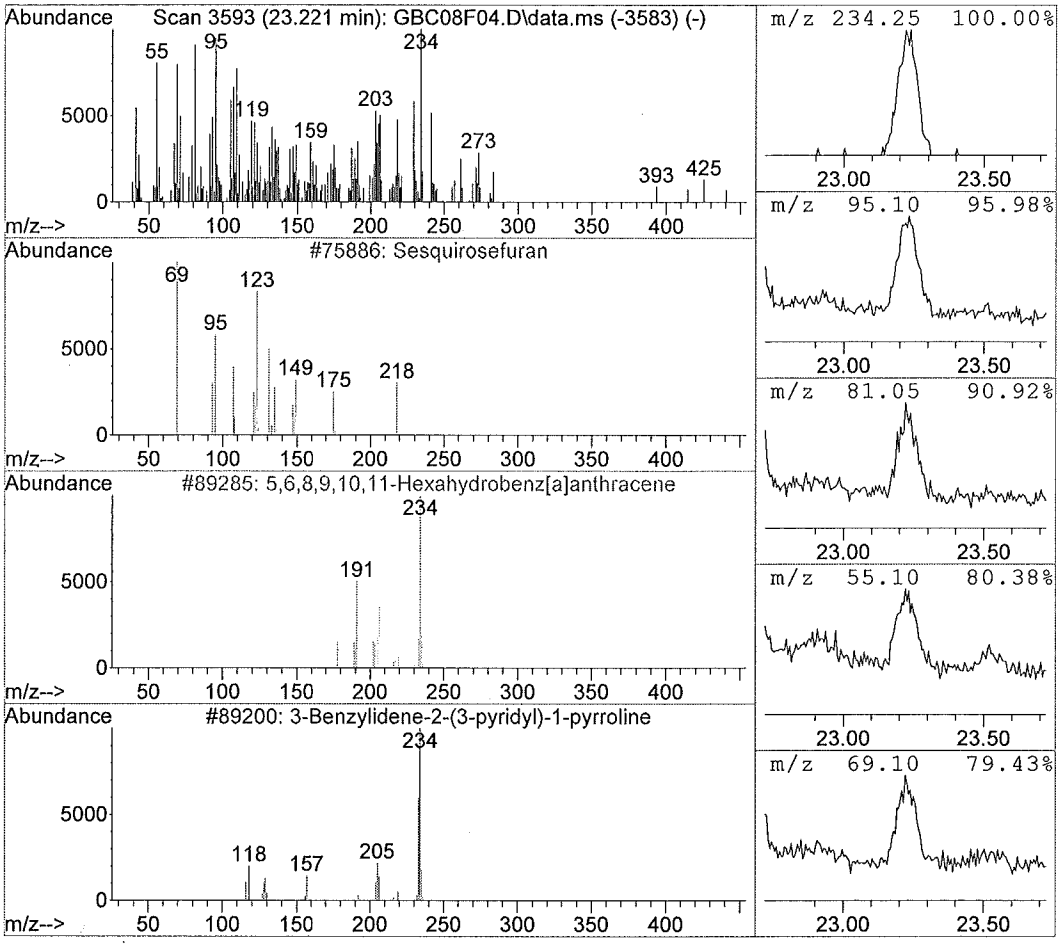
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.22	2.57 ug/ml	410268	Perylene-d12	3186608

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Sesquirosefuran	75886	039007-93-7	46.00
2	5,6,8,9,10,11-Hexahydrobenz[a]anthr	89285	067064-61-3	43.00
3	3-Benzylidene-2-(3-pyridyl)-1-pyrro	89200	093013-30-0	41.00
4	1-Oxaspiro[2.5]octane, 5,5-dimethyl	66168	1000195-92-1	41.00
5	Methisazone	88527	001910-68-5	15.00



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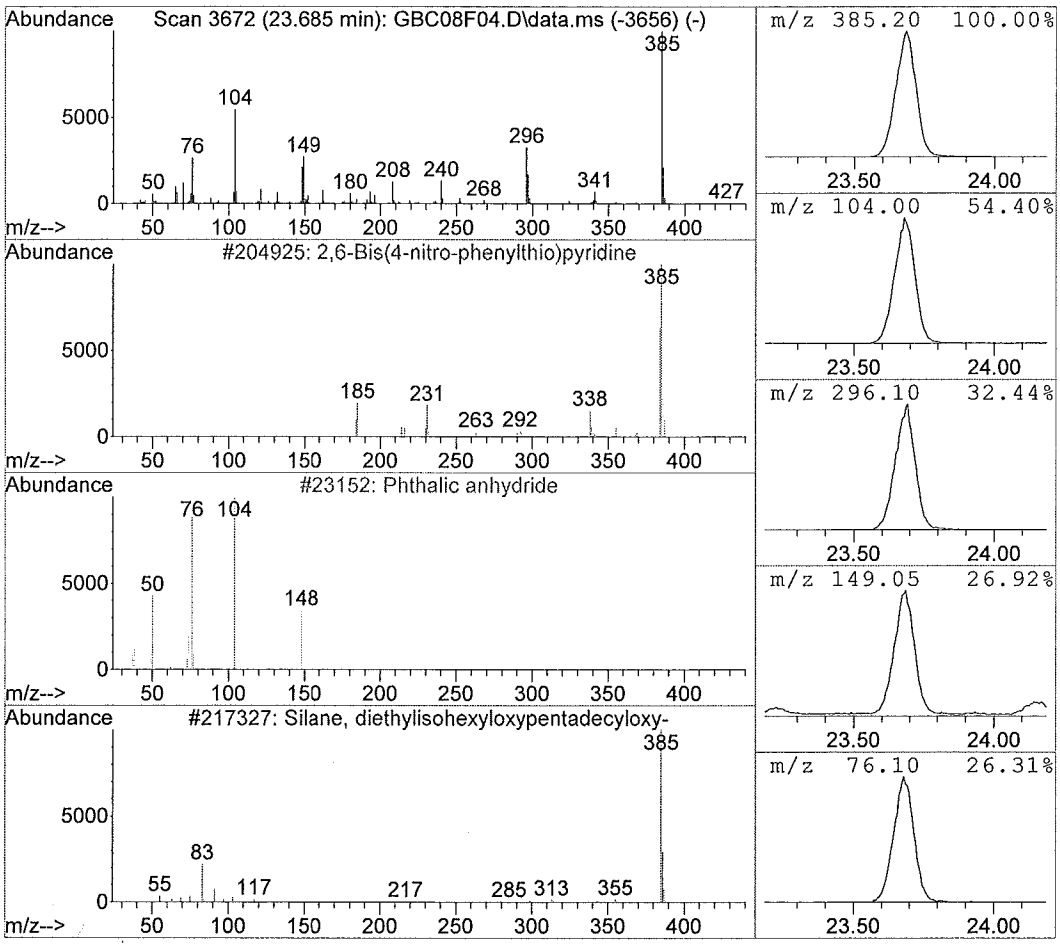
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	11.80 ug/ml	1880640	Perylene-d12	3186608

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,6-Bis(4-nitro-phenylthio)pyridine	204925	078649-02-2	32.00
2	Phthalic anhydride	23152	000085-44-9	14.00
3	Silane, diethylisohexyloxypentadecy	217327	1000363-32-2	12.00
4	Silane, diethyl(2-methylpent-3-ylox	217344	1000363-78-6	12.00
5	Silane, diethylhexyloxypentadecylox	217319	1000363-74-3	12.00



Library Search Compound Report

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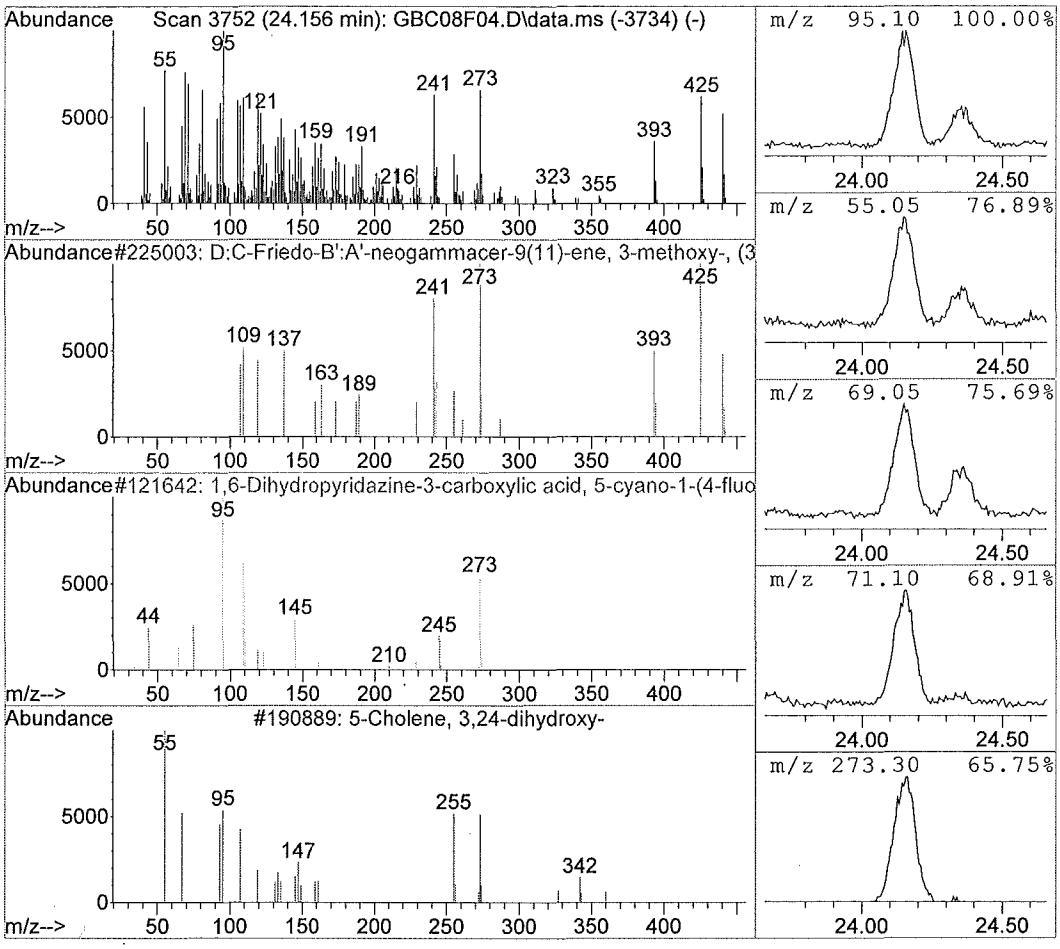
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.16	7.18 ug/ml	1143602	Perylene-d12	3186608

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	D:C-Friedo-B':A'-neogammacer-9(11)-	225003	004555-56-0	70.00
2	1,6-Dihydropyridazine-3-carboxylic	121642	1000304-05-0	27.00
3	5-Cholene, 3,24-dihydroxy-	190889	1000251-69-2	22.00
4	9-Thiabicyclo[3.3.1]nonane, 2,6-bis	122462	1000141-52-1	22.00
5	Lanost-8-ene-3,7-dione, (13.alpha.,	224985	055401-48-4	18.00



Library Search Compound Report

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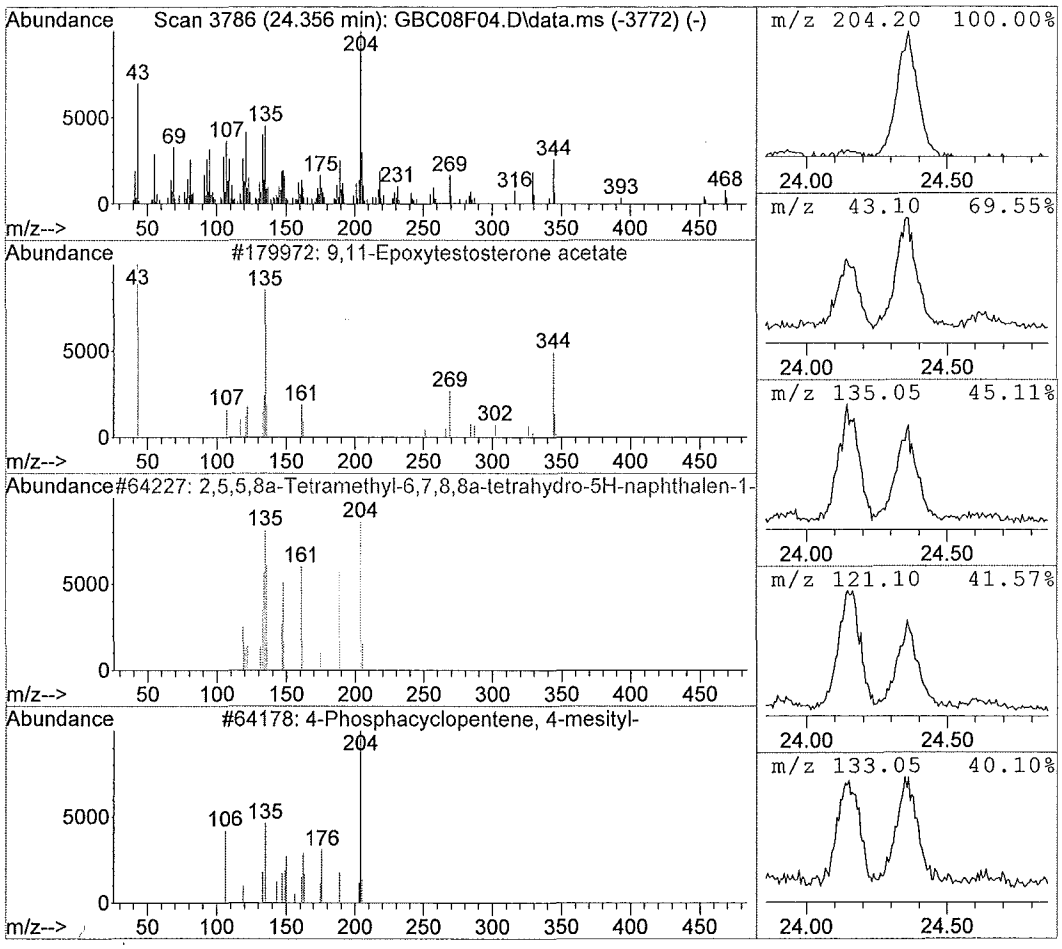
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.36	3.29 ug/ml	523676	Perylene-d12	3186608

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9,11-Epoxytestosterone acetate	179972	1000128-13-7	53.00
2	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	49.00
3	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	46.00
4	.alpha.-D-Glucopyranoside, methyl 2	232820	002641-79-4	43.00
5	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64569	000489-40-7	38.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L62

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293005

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBC09F05

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	200	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L62

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293005

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBC09F05

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	18.	J
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9L62

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293005

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBC09F05

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 2,2-dimethoxy-	2.12	310	JB
02		Unknown 2-Pentanone, 4-hydroxy-	3.38	140	J
03		Unknown Guanidine	3.58	5200	JB
04		Unknown 3-Hexene-2,5-dione	4.35	250	JB
05		Unknown 2-Chloro-5-hydroxy-2,4,6-cycloheptatrien	7.26	99.	J
06	57-10-3	n-Hexadecanoic acid	12.78	78.	JN
07	629-54-9	Hexadecanamide	14.26	200	JNB
08	301-02-0	9-Octadecenamide, (Z)-	15.17	1700	JNB
09		Unknown Hexadecanamide	15.27	89.	J
10		Unknown 1,5-Hexadiene, 2,5-dipropyl-	16.32	160	JB
11	112-84-5	13-Docosenamide, (Z)-	17.13	1100	JN
12	62906-36-9	1,2-Dicarbadodecaborane(12), 1-[(propylthio)meth	18.43	390	JN
13		Unknown Isonipecotic acid, N-(3-chloropropionyl)	18.82	120	J
14		Unknown Isoquinoline, 1,2,3,4-tetrahydro-6,7-dim	19.73	420	J
15		Unknown 2,5,5,8a-Tetramethyl-6,7,8,8a-tetrahydro	21.56	3000	J
16		Unknown 1,3a-Ethano-3aH-indene, 1,2,3,6,7,7a-hex	21.90	680	J
17		Unknown 1-Naphthalenecarboxylic acid, decahydro-	22.22	180	J
18		Unknown (1S,6R,9S,10S)-5,5,9,10-Tetramethyltricy	23.23	190	J
19		Unknown D:C-Friedo-B':A'-neogammacer-9(11)-ene,	24.16	410	J
20		Unknown 2,5,5,8a-Tetramethyl-6,7,8,8a-tetrahydro	24.37	240	J
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	330	J

[2] EPA-designated Registry Number.

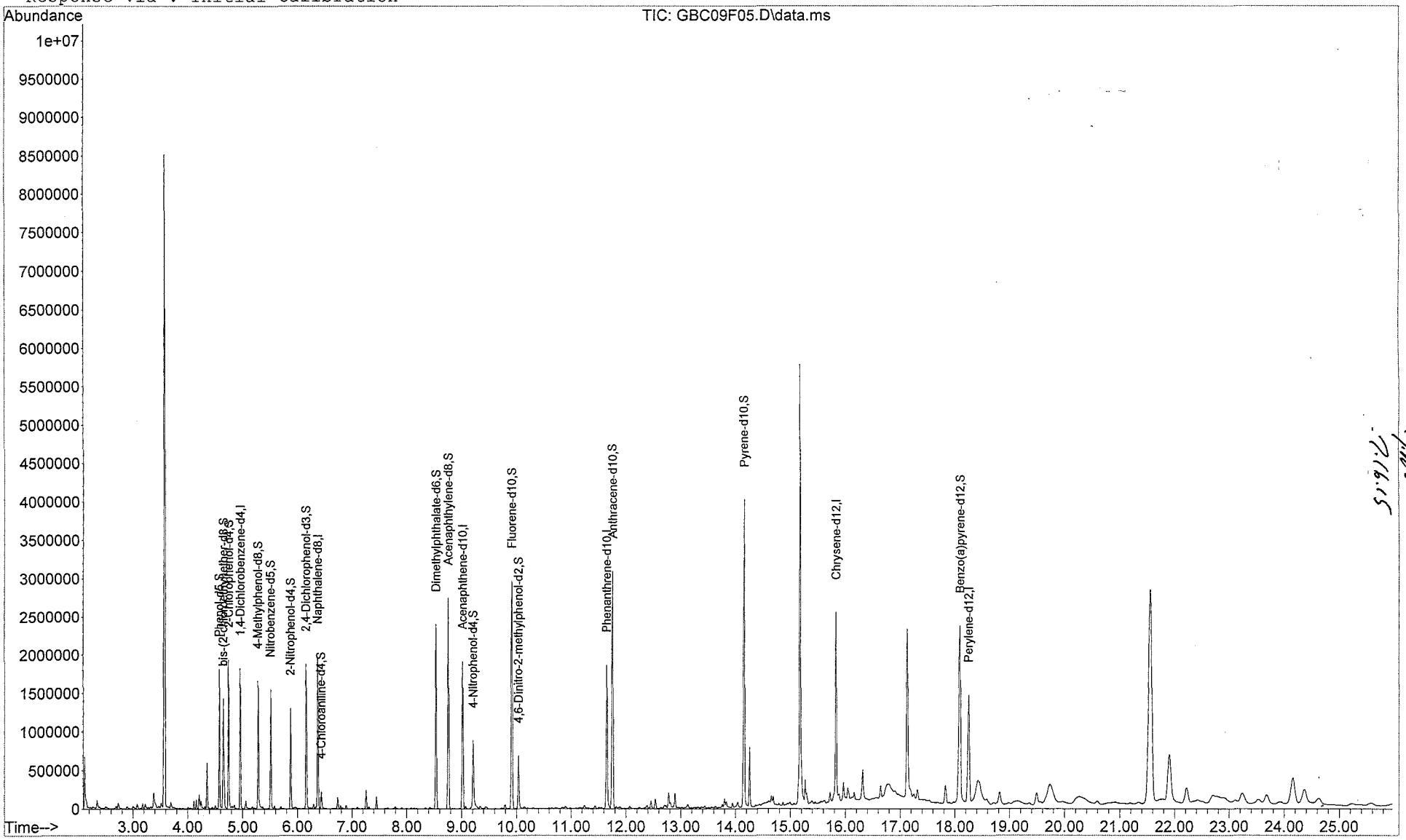
Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC09F05.D
Acq On : 06/02/2015 17:47
Sample : 1514293005 F9L62
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 8
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 14:39:11 2015 Results File: GSOM01D4.RES

Method : R:\G\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 : R:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:39:11 2015 Results File: GSOM01D4.RES

Method : R:\G\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	319396	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1186210	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	669077	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1116593	20.00 ug/ml
73) Chrysene-d12	15.83	240	1090273	20.00 ug/ml
81) Perylene-d12	18.25	264	1068524	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	664782	29.847ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	318391	23.346ug/mL
7) 2-Chlorophenol-d4	4.75	132	628219	28.728ug/ml
13) 4-Methylphenol-d8	5.28	113	420552	24.252ug/mL
17) Nitrobenzene-d5	5.51	128	289629	29.101ug/ml
21) 2-Nitrophenol-d4	5.87	143	337166	30.399ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	506652	31.183ug/mL
28) 4-Chloroaniline-d4	6.43	131	102149	5.796ug/mL
42) Dimethylphthalate-d6	8.53	166	1505160	36.990ug/mL
45) Acenaphthylene-d8	8.76	160	1783118	32.836ug/mL
50) 4-Nitrophenol-d4	9.21	143	306906	35.419ug/mL
57) Fluorene-d10	9.92	176	1256512	35.552ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	169241	23.075ug/mL
69) Anthracene-d10	11.76	188	2031728	35.971ug/mL
75) Pyrene-d10	14.16	212	1810351	36.524ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1790970	36.952ug/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)

00155

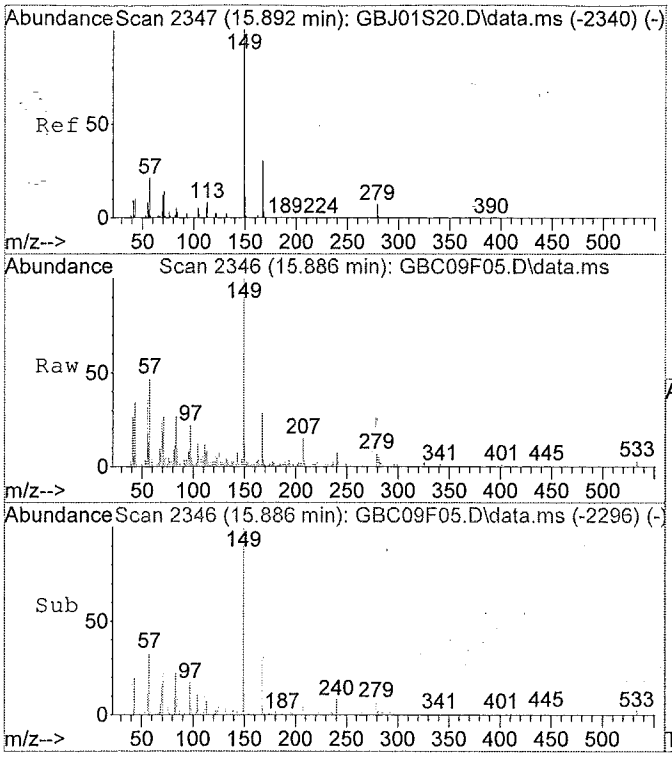
Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:39:11 2015 Results File: GSOM01D4.RES

Method : R:\G\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	15.89	149	24647	0.468ug/ml	94
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	

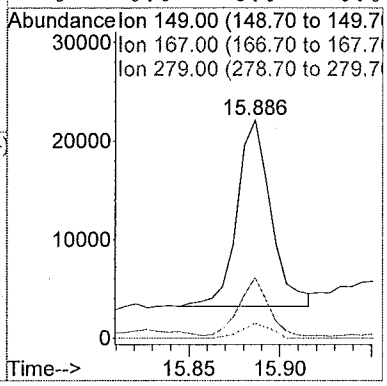
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#80
Bis-(2-ethylhexyl)phthalate
Concen: 0.47 ug/ml
RT: 15.89 min Scan# 2346
Delta R.T. -0.01 min
Lab File: GBC09F05.D
Acq: 06/02/2015 17:47

Tgt Ion:149 Resp: 24647

Ion	Ratio	Lower	Upper
149	100		
167	27.2	22.0	40.8
279	6.8	5.0	9.2
0	0.0	0.0	0.0



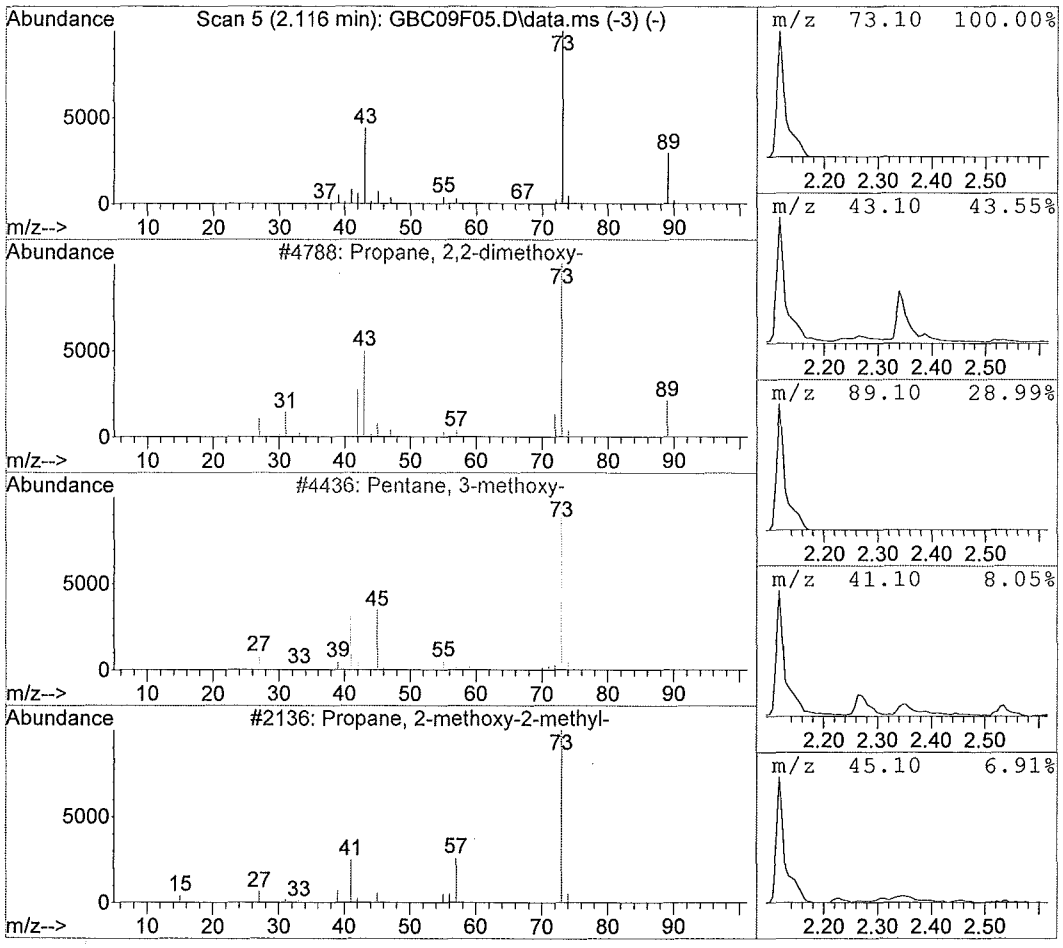
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.12	8.00 ug/ml	725334	1,4-Dichlorobenzene-d4	1812925

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 2,2-dimethoxy-	4788	000077-76-9	38.00
2	Pentane, 3-methoxy-	4436	036839-67-5	9.00
3	Propane, 2-methoxy-2-methyl-	2136	001634-04-4	9.00
4	2-Hydroxy-2-methylbutyric acid	8706	003739-30-8	9.00
5	1-Hexen-4-ol, 1-chloro-3,5-dimethyl	32642	100244-09-5	9.00



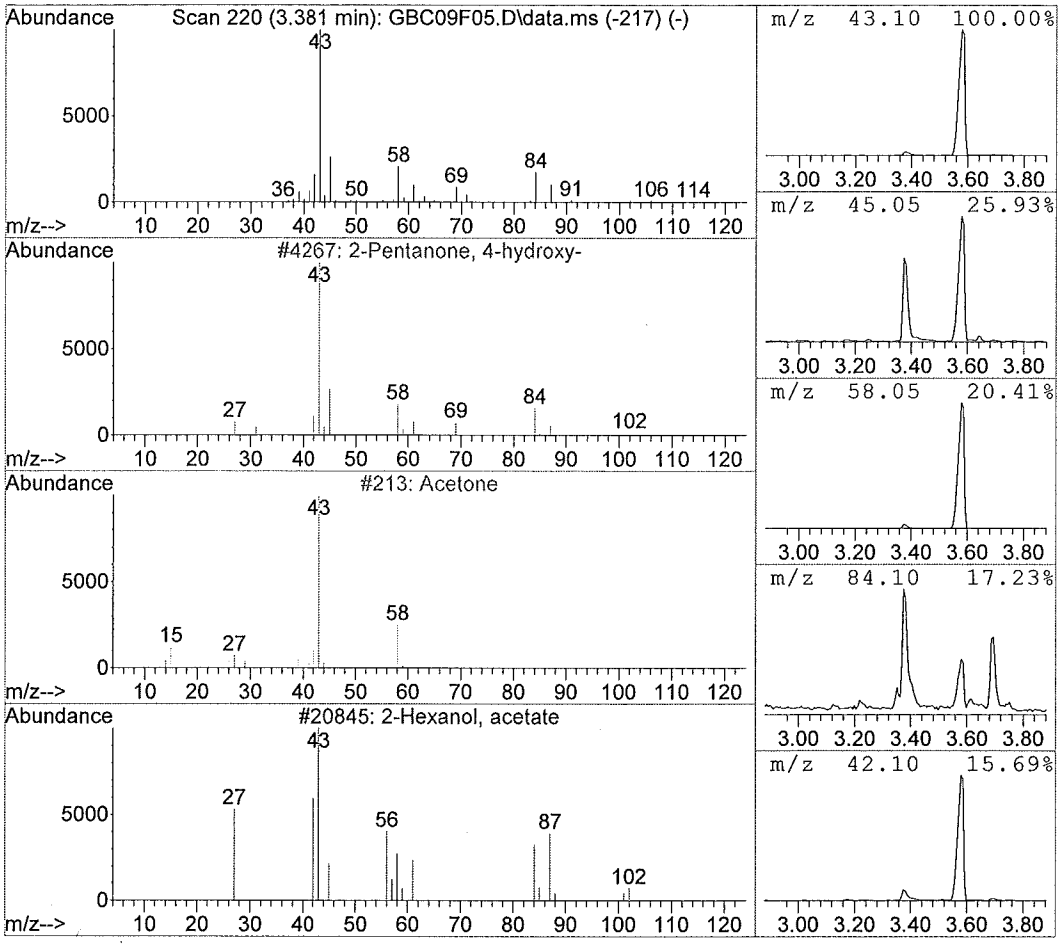
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	3.61 ug/ml	327438	1,4-Dichlorobenzene-d4	1812925

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	64.00
2	Acetone	213	000067-64-1	25.00
3	2-Hexanol, acetate	20845	005953-49-1	23.00
4	2,4-Diacetoxypentane	52047	007371-86-0	23.00
5	1-Pentanol, 2-methyl-, acetate	20927	007789-99-3	23.00



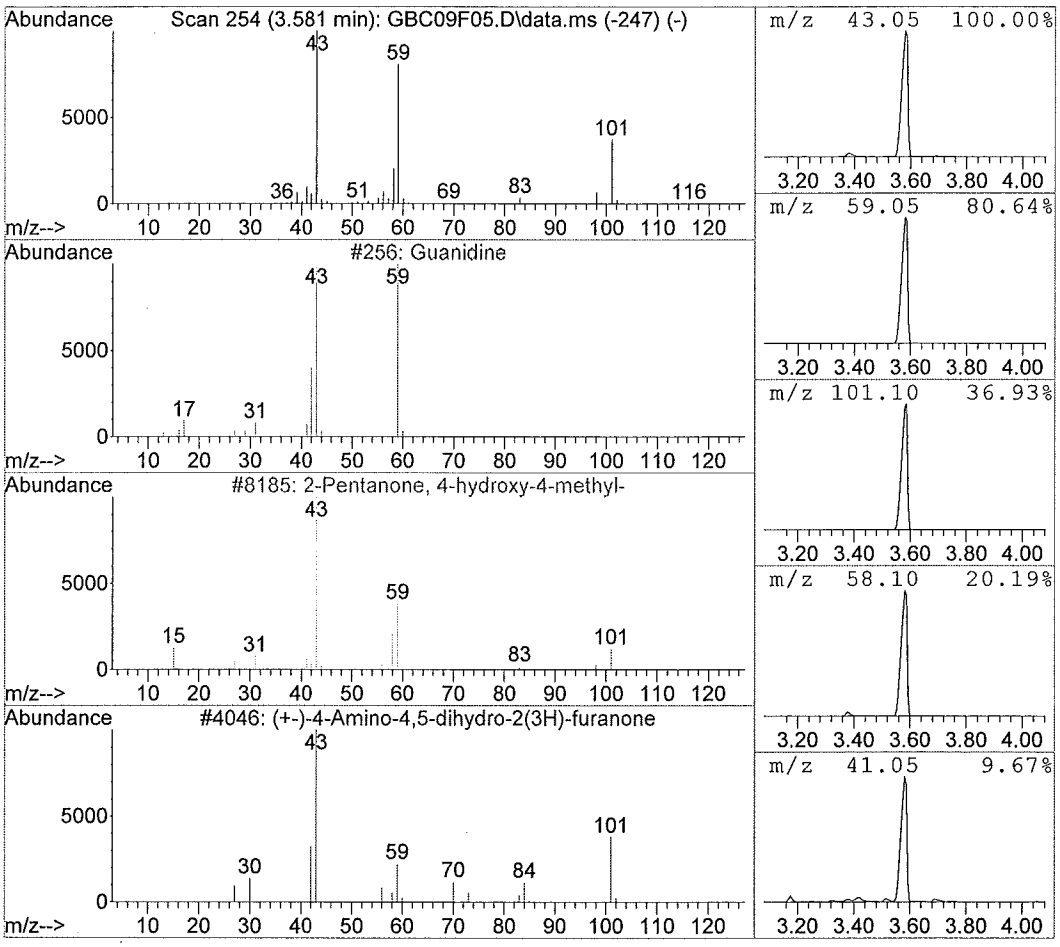
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	134.02 ug/ml	12148135	1,4-Dichlorobenzene-d4	1812925

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	5-Hexen-2-one	3159	000109-49-9	9.00



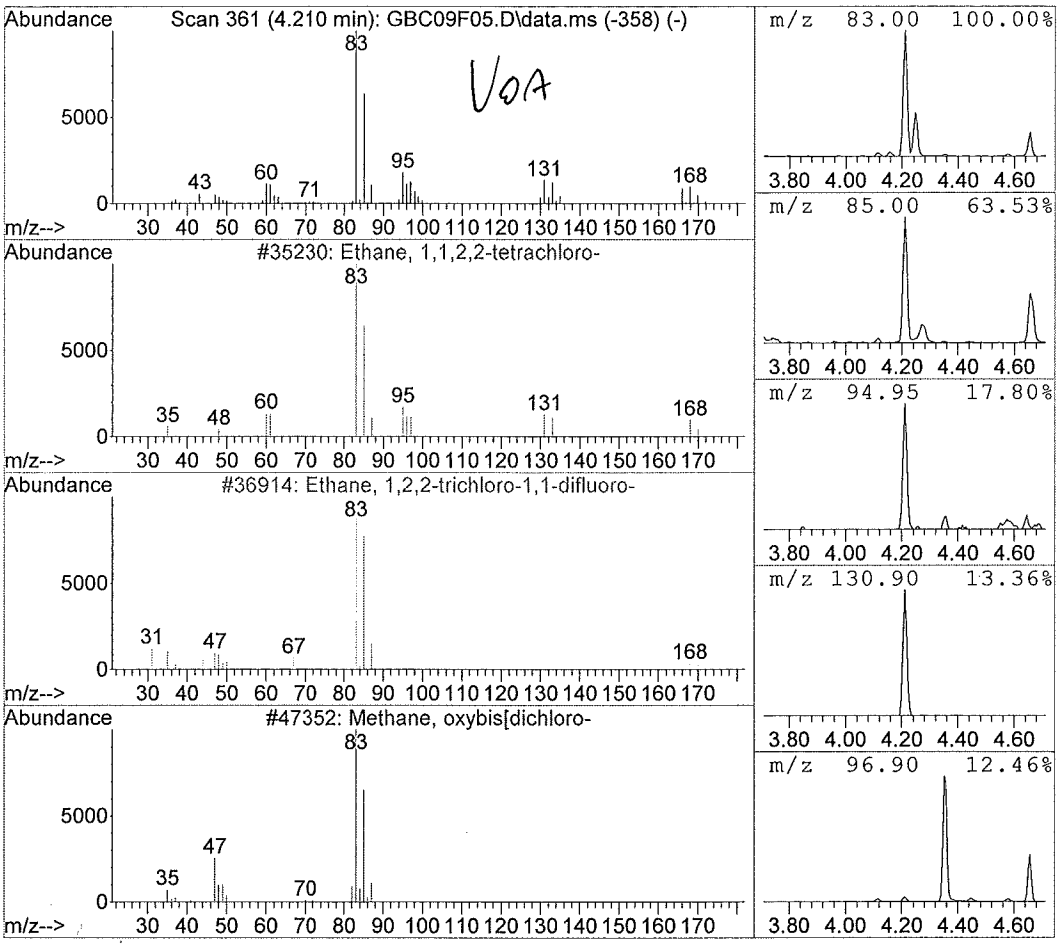
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.21	2.28 ug/ml	206845	1,4-Dichlorobenzene-d4	1812925

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	35230	000079-34-5	97.00
2	Ethane, 1,2,2-trichloro-1,1-difluor	36914	000354-21-2	62.00
3	Methane, oxybis[dichloro-	47352	020524-86-1	47.00
4	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	45.00
5	Ethane, 2,2-dichloro-1,1,1-trifluor	25466	000306-83-2	42.00



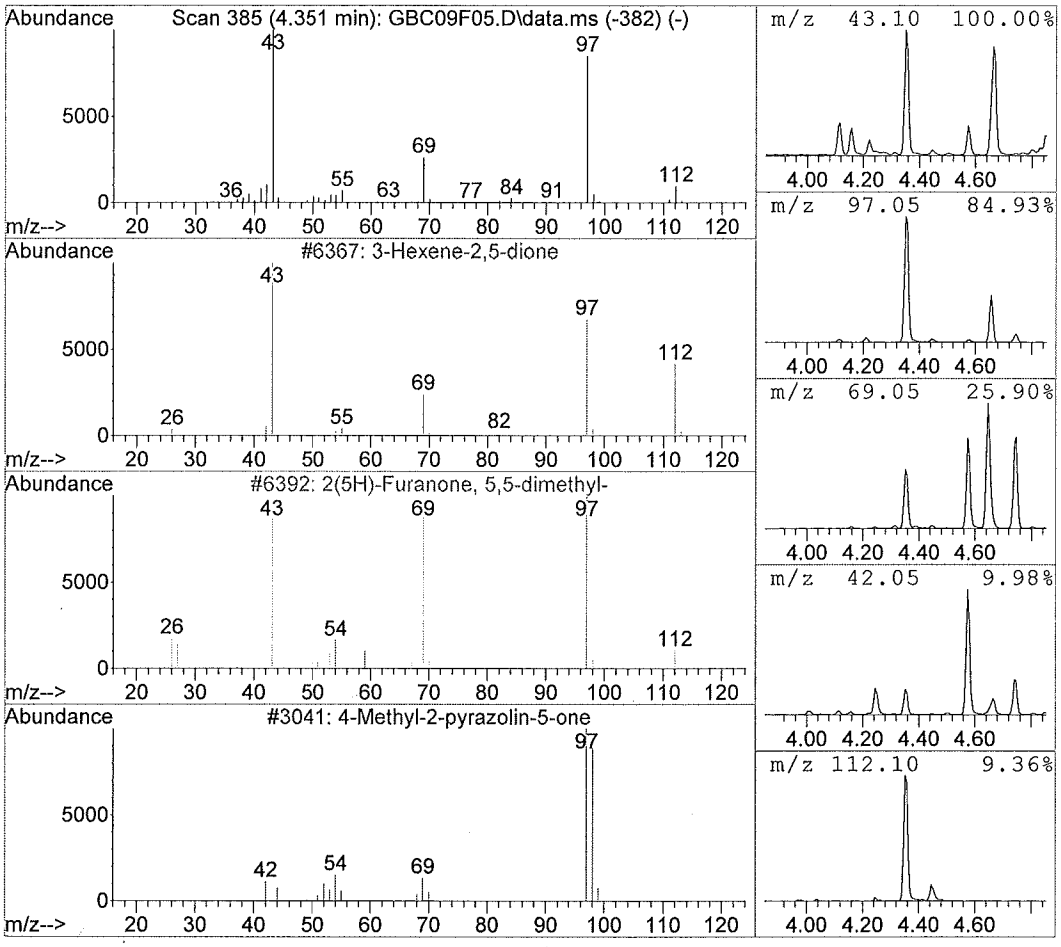
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	6.29 ug/ml	570071	1,4-Dichlorobenzene-d4	1812925

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	50.00
3	4-Methyl-2-pyrazolin-5-one	3041	013315-23-6	33.00
4	1,3-Butadien-1-ol, acetate	6386	001515-76-0	9.00
5	5-Hexen-2-one	3159	000109-49-9	9.00



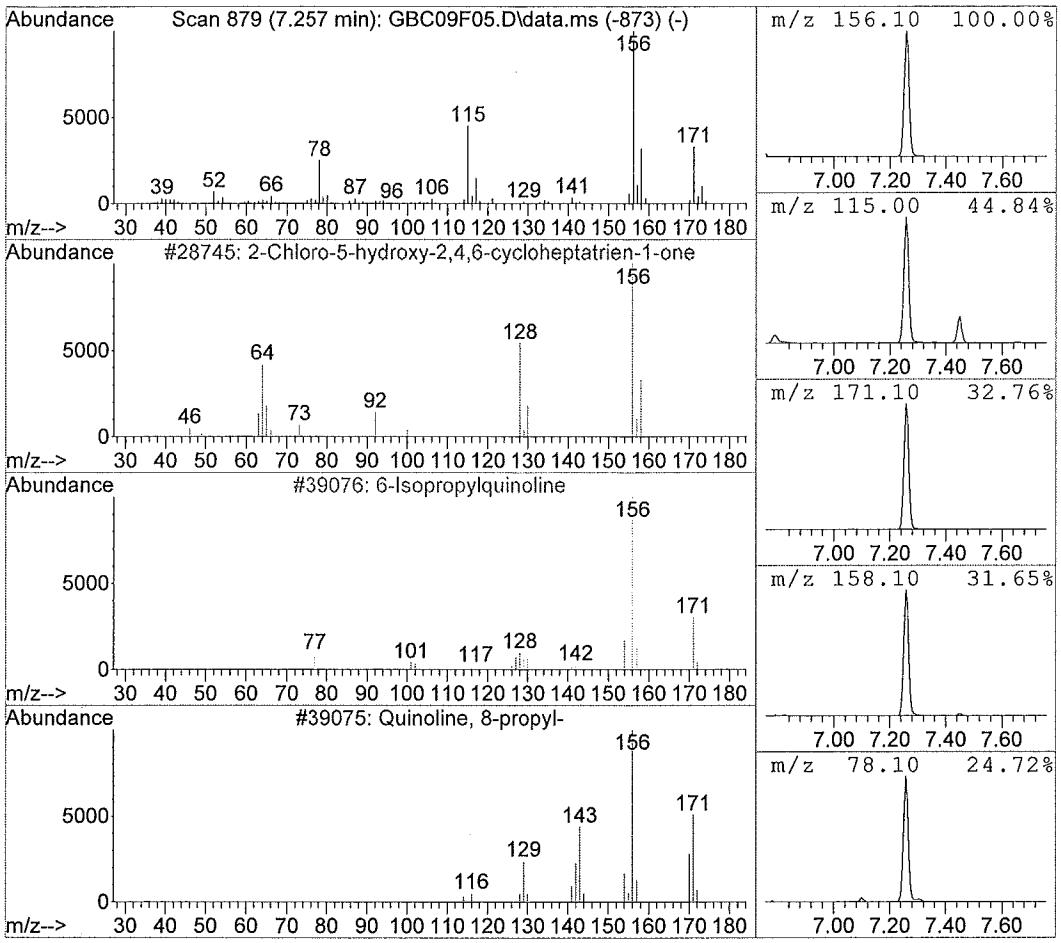
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.26	2.52 ug/ml	293182	Naphthalene-d8	2328891

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Chloro-5-hydroxy-2,4,6-cyclohepta	28745	007009-16-7	43.00
2	6-Isopropylquinoline	39076	000135-79-5	43.00
3	Quinoline, 8-propyl-	39075	007661-53-2	38.00
4	1,2,3,4-Tetrahydropentalene, 1,1-di	39115	1000217-18-6	37.00
5	Benzene, 2,5-cyclohexadien-1-yl-	28511	004794-05-2	28.00



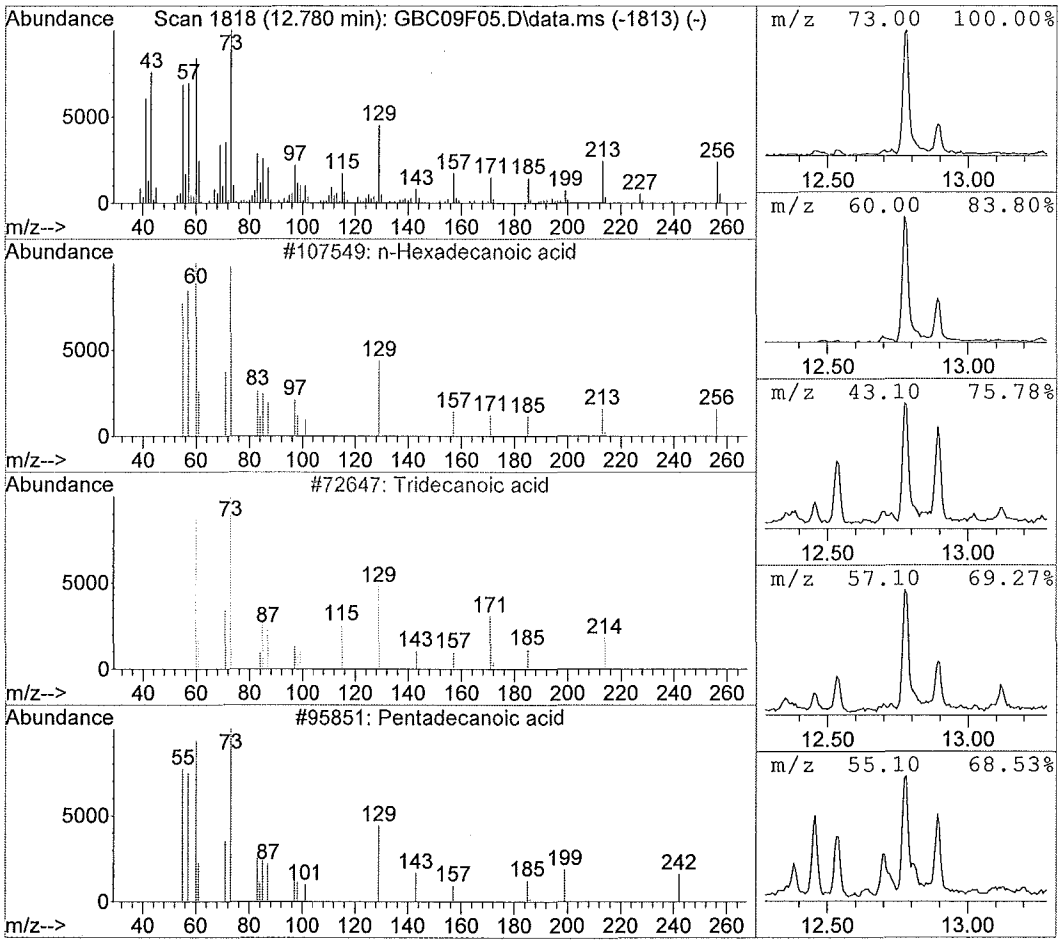
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.78	2.00 ug/ml	283815	Phenanthrene-d10	2834035

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Tridecanoic acid	72647	000638-53-9	95.00
3	Pentadecanoic acid	95851	001002-84-2	91.00
4	Tetradecanoic acid	84452	000544-63-8	90.00
5	Dodecanoic acid	61122	000143-07-7	64.00



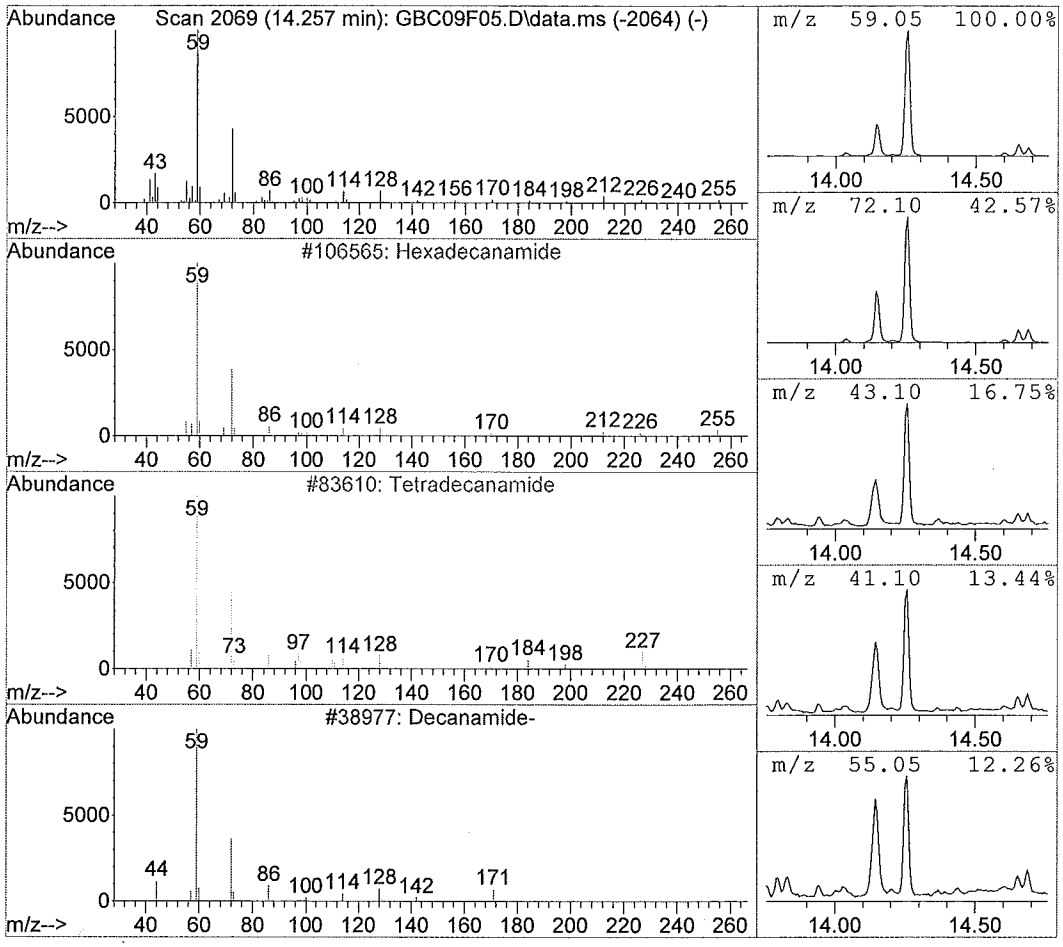
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.26	5.12 ug/ml	921541	Chrysene-d12	3602997

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	96.00
2	Tetradecanamide	83610	000638-58-4	90.00
3	Decanamide-	38977	002319-29-1	72.00
4	Octanamide	20317	000629-01-6	72.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	72.00



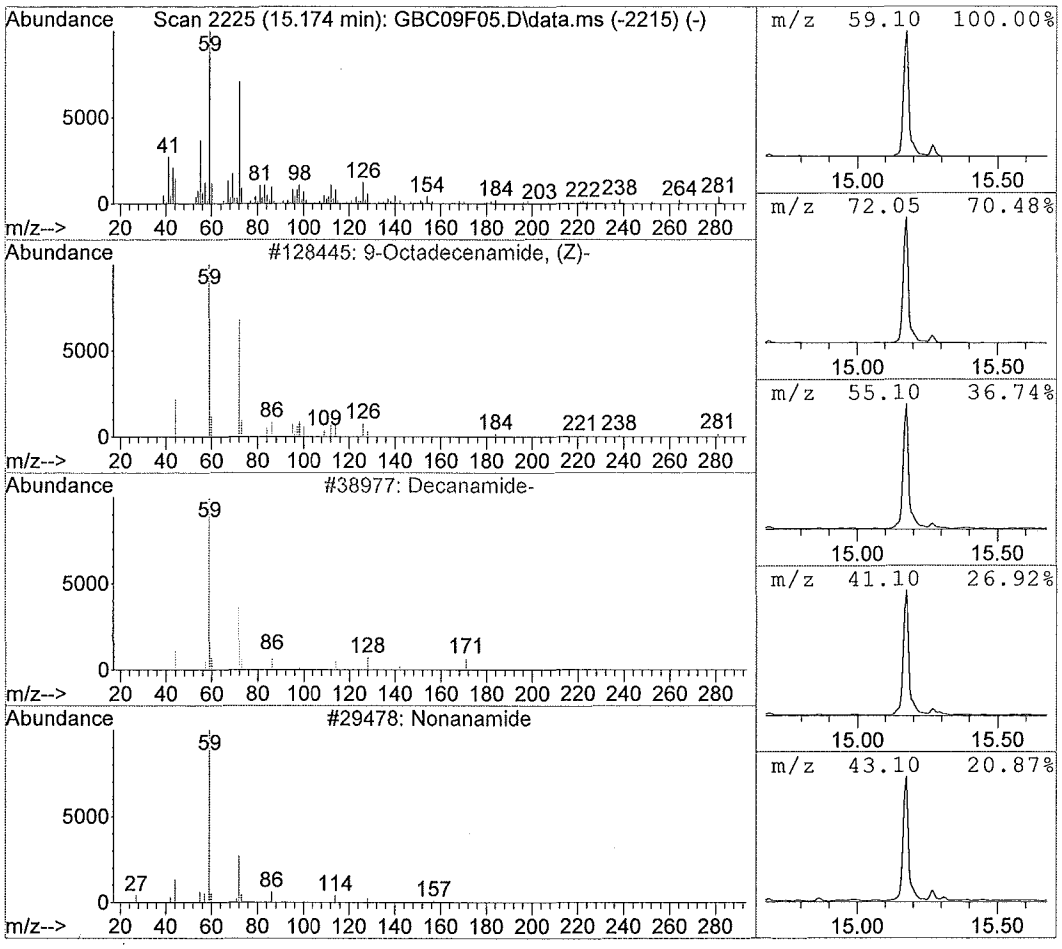
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	43.98 ug/ml	7922979	Chrysene-d12	3602997

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	Decanamide-	38977	002319-29-1	53.00
3	Nonanamide	29478	001120-07-6	50.00
4	Pentanamide, 4-methyl-	7815	001119-29-5	50.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	45.00



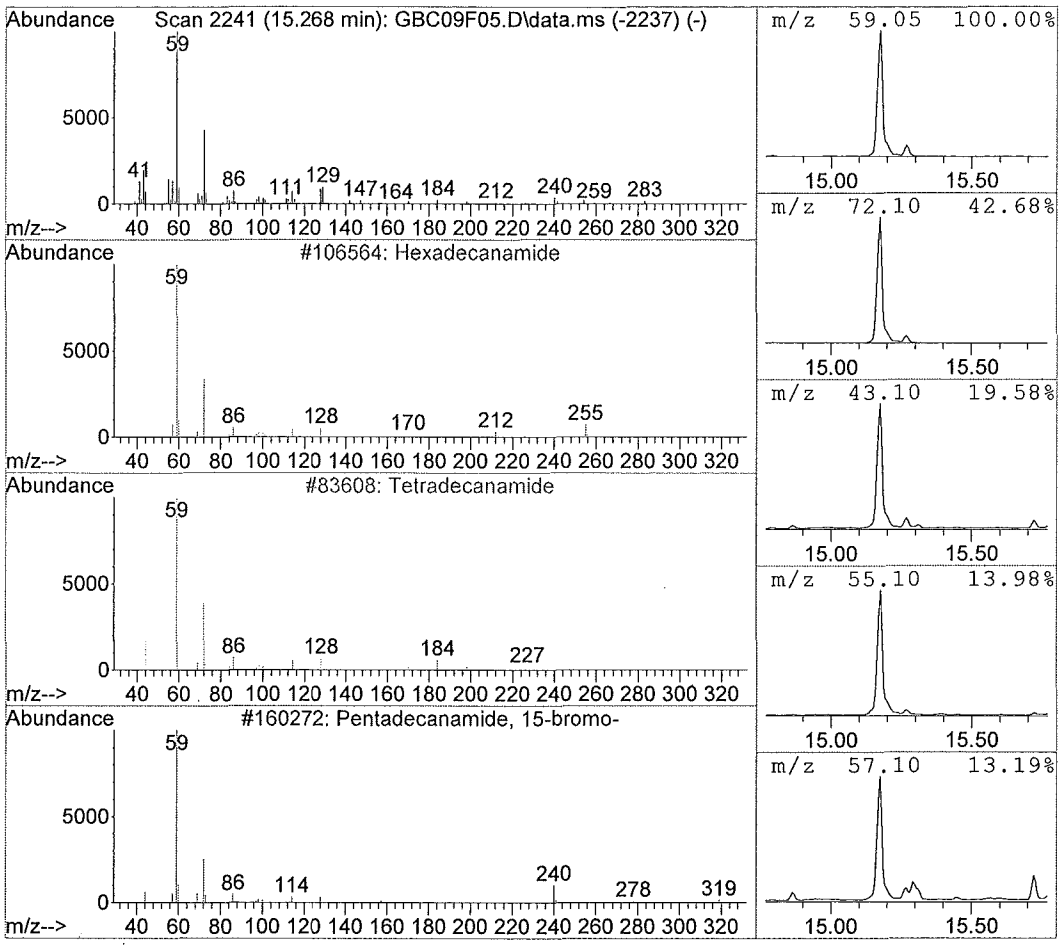
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.27	2.26 ug/ml	407905	Chrysene-d12	3602997

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	83.00
2	Tetradecanamide	83608	000638-58-4	80.00
3	Pentadecanamide, 15-bromo-	160272	1000163-86-1	72.00
4	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	56.00
5	Dodecanamide	60439	001120-16-7	56.00



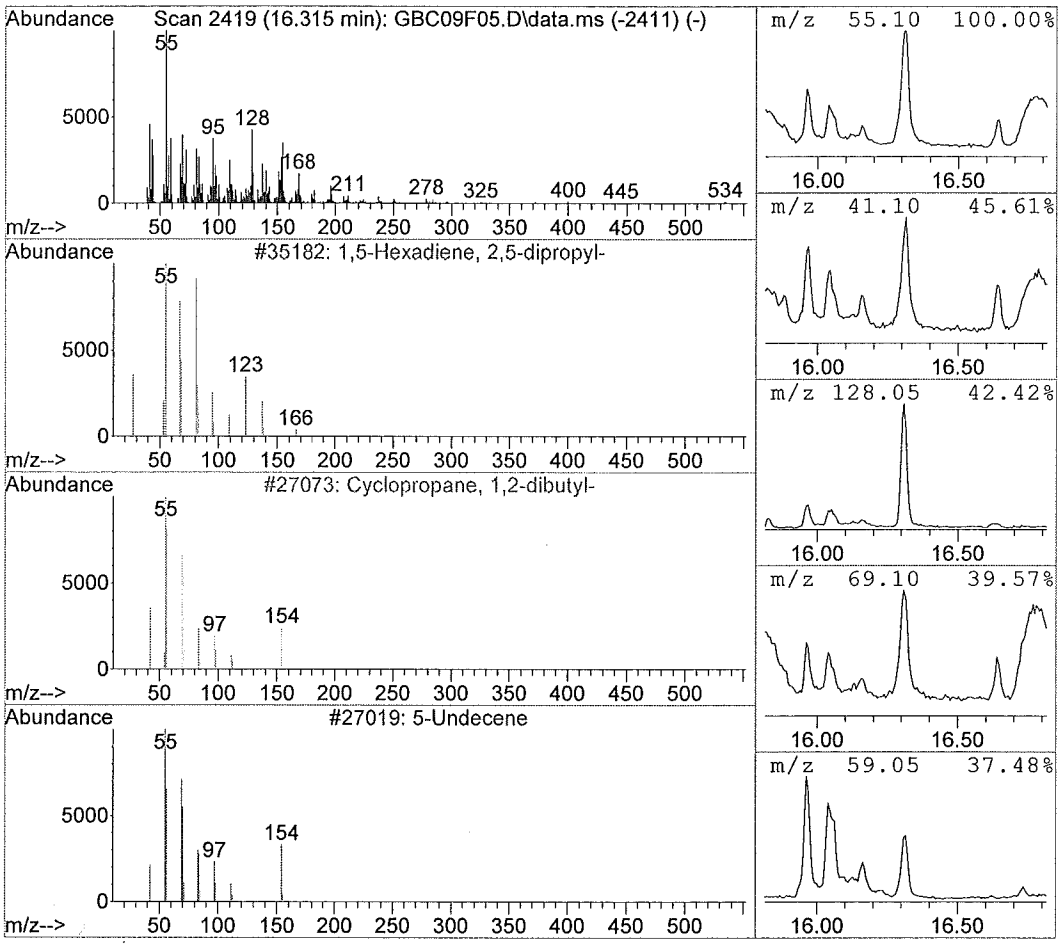
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	4.00 ug/ml	719831	Chrysene-d12	3602997

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,5-Hexadiene, 2,5-dipropyl-	35182	1000158-33-4	11.00
2	Cyclopropane, 1,2-dibutyl-	27073	041977-32-6	11.00
3	5-Undecene	27019	004941-53-1	11.00
4	Cyclododecanone, 2-methyl-	58195	016837-94-8	11.00
5	2-Propenoic acid, 2-cyano-3-phenyl-	50986	003695-84-9	11.00



Library Search Compound Report

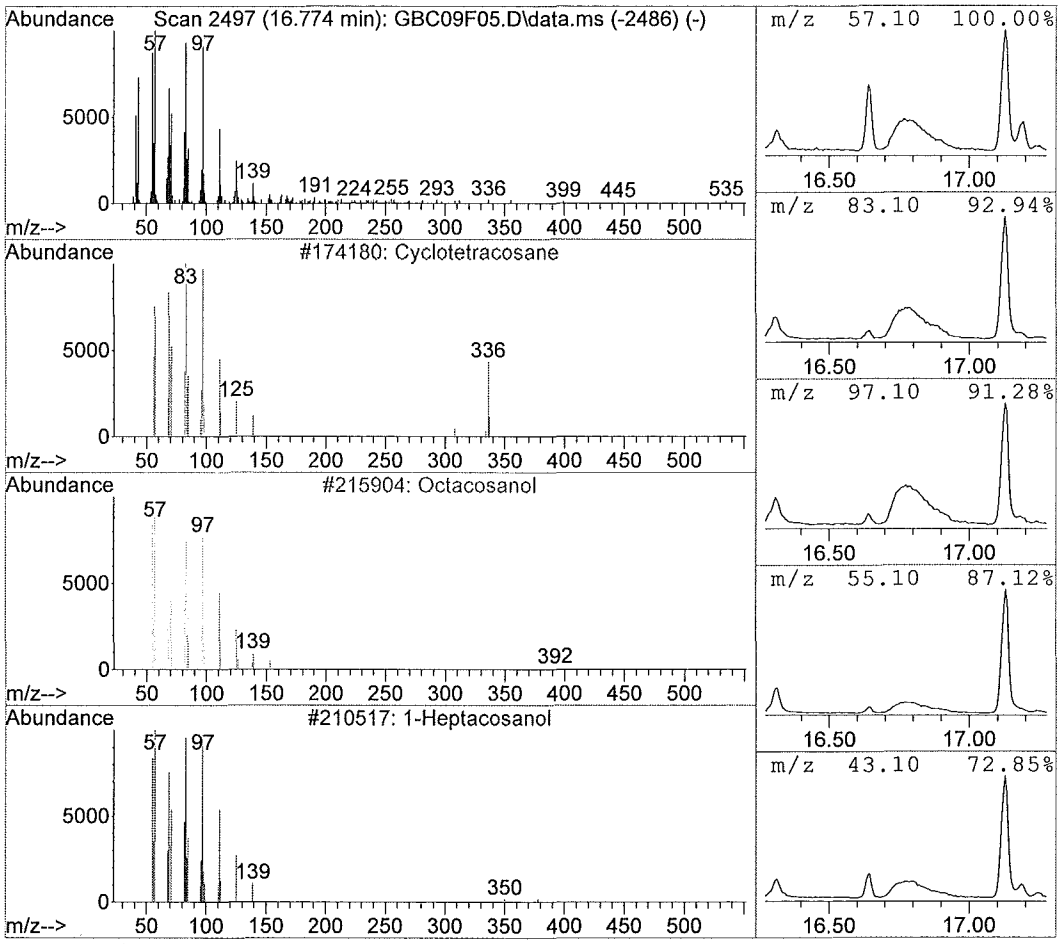
Data File : R:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.77	2.26 ug/ml	407484	Chrysene-d12	3602997

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclotetracosane	174180	000297-03-0	98.00
2	Octacosanol	215904	000557-61-9	94.00
3	1-Heptacosanol	210517	002004-39-9	94.00
4	n-Tetracosanol-1	186968	000506-51-4	94.00
5	Heptacosyl acetate	224391	1000351-78-2	94.00

C.A.



00169

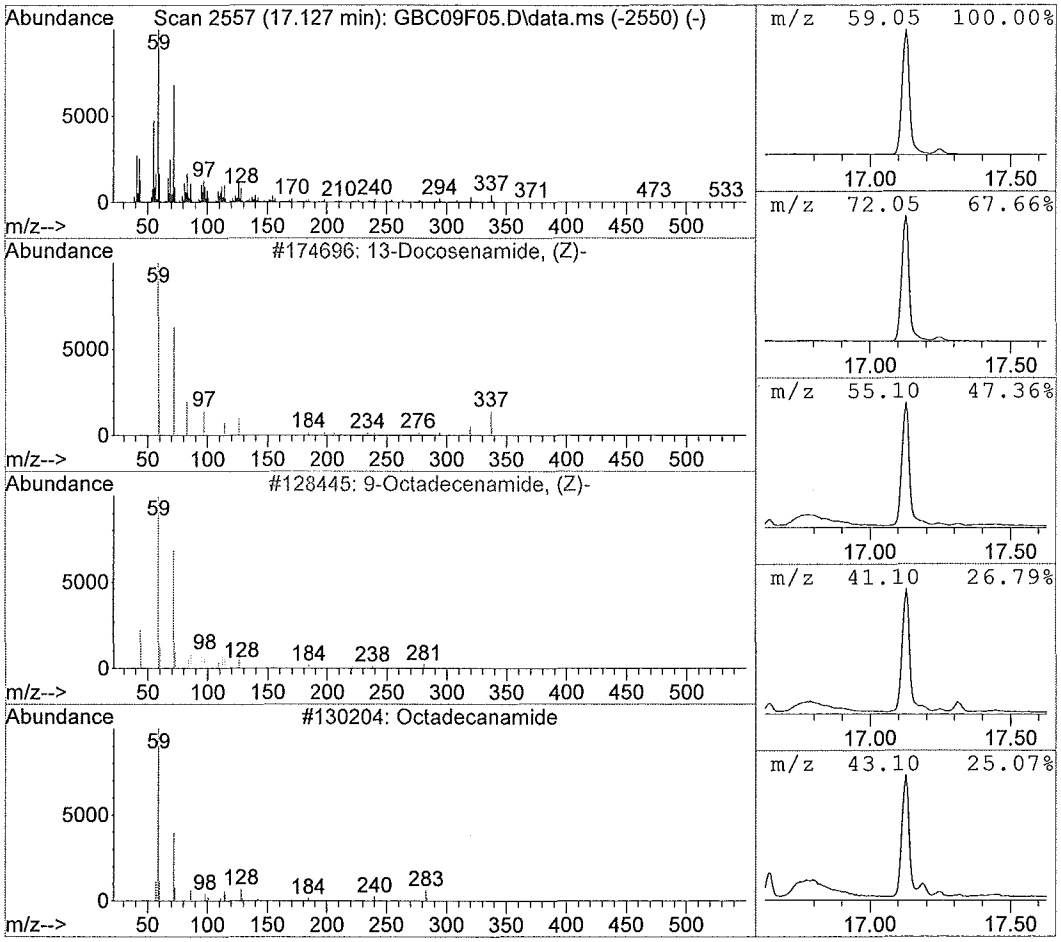
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.13	27.03 ug/ml	4138339	Perylene-d12	3062011

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	Octadecanamide	130204	000124-26-5	59.00
4	Pentanamide, 4-methyl-	7815	001119-29-5	53.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	50.00



Library Search Compound Report

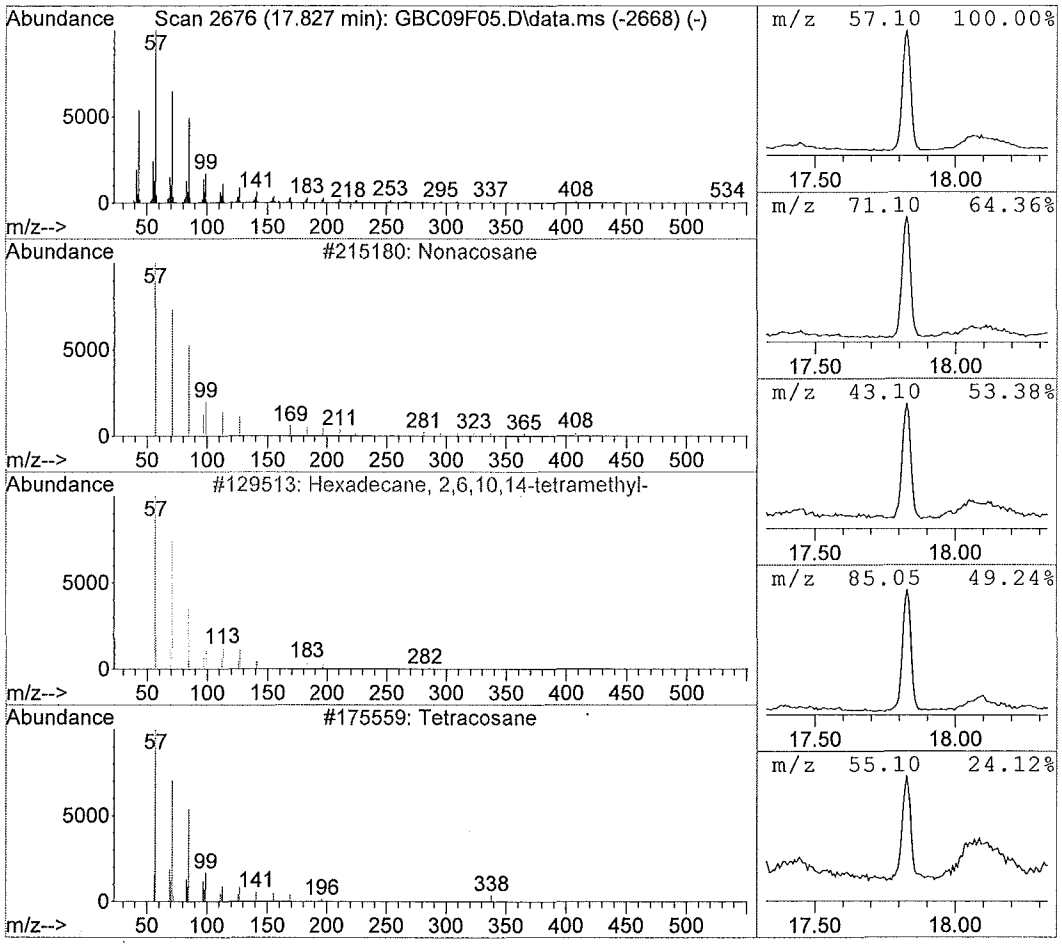
Data File : R:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	3.16 ug/ml	483664	Perylene-d12	3062011

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonacosane	215180	000630-03-5	97.00
2	Hexadecane, 2,6,10,14-tetramethyl-	129513	000638-36-8	93.00
3	Tetracosane	175559	000646-31-1	91.00
4	Hexacosane	194493	000630-01-3	91.00
5	Octacosane	209566	000630-02-4	90.00

SCA



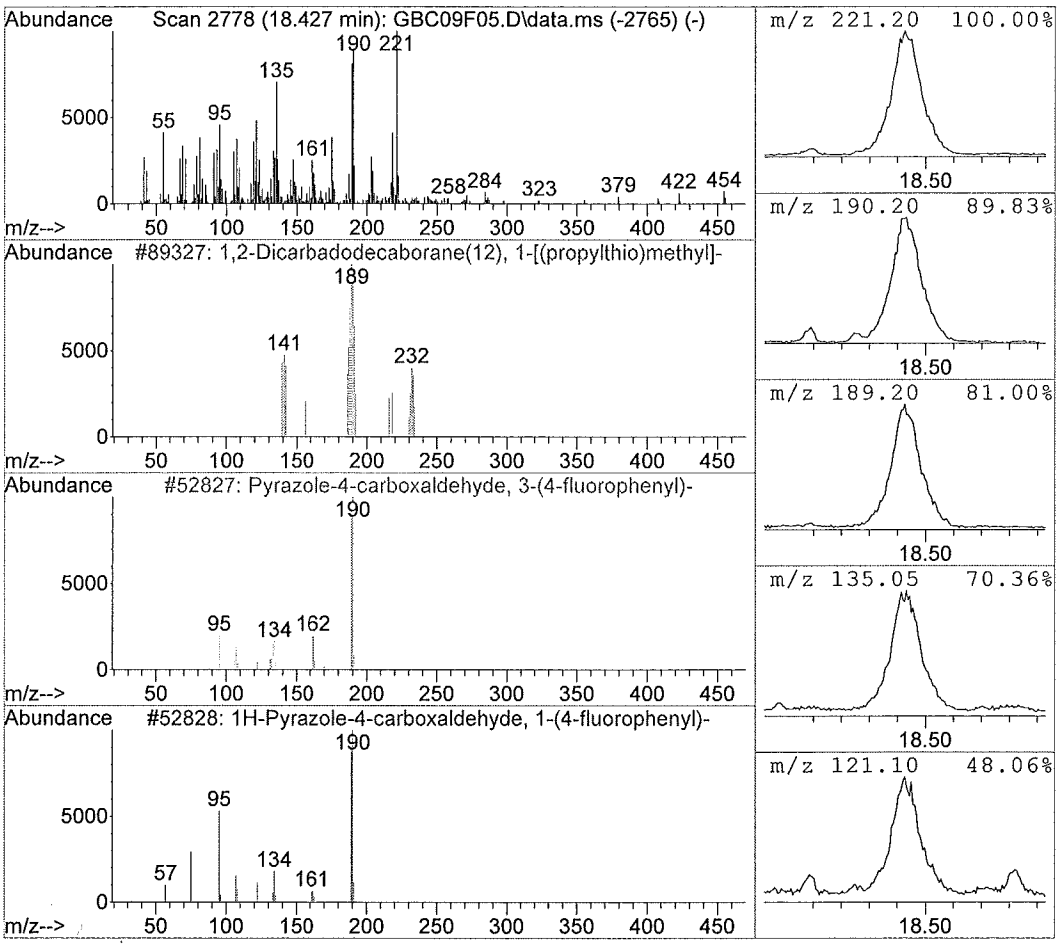
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.43	10.05 ug/ml	1538261	Perylene-d12	3062011

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Dicarbadodecaborane(12), 1-[(pr	89327	062906-36-9	91.00
2	Pyrazole-4-carboxaldehyde, 3-(4-flu	52827	306936-57-2	50.00
3	1H-Pyrazole-4-carboxaldehyde, 1-(4-	52828	1000338-05-6	38.00
4	4H-Cyclopenta[def]phenanthrene	53203	000203-64-5	30.00
5	.eta.<5>-Pentamethylcyclopentadieny	122335	034807-89-1	27.00



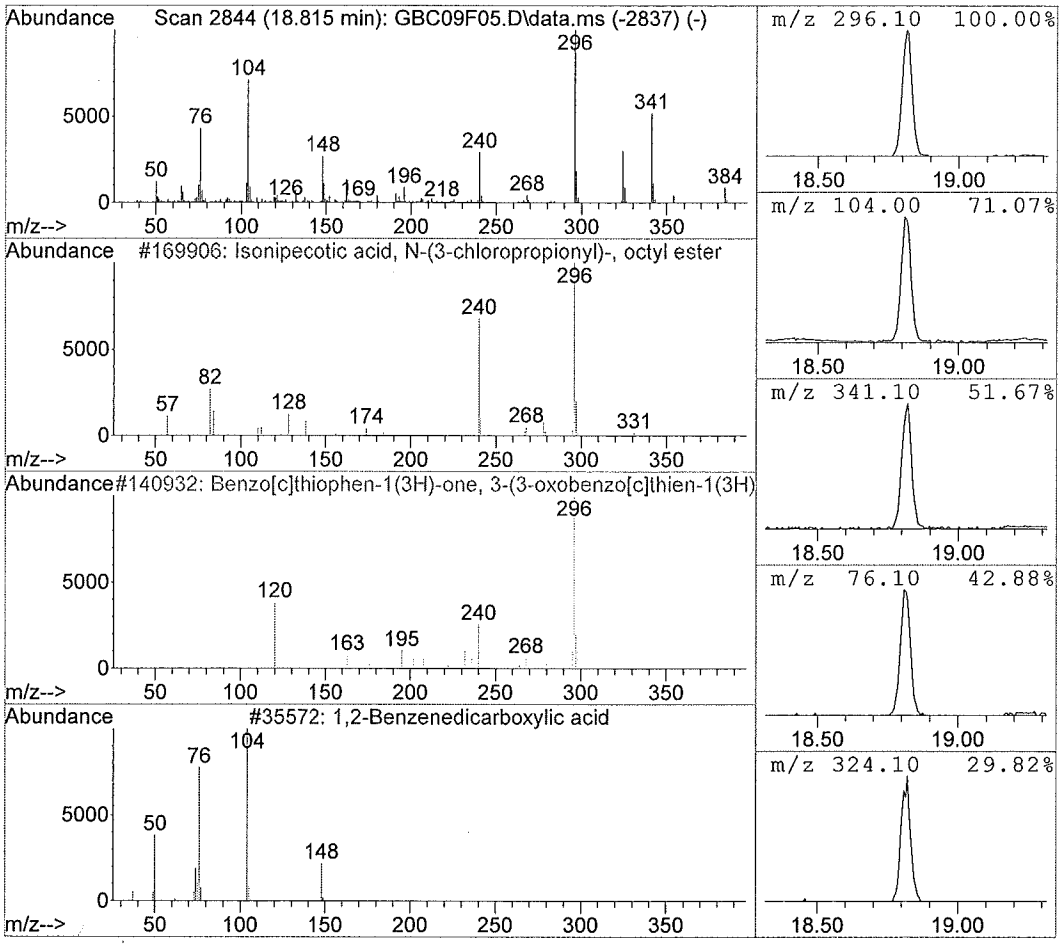
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	2.97 ug/ml	454491	Perylene-d12	3062011

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Isonipecotic acid, N-(3-chloropropi	169906	1000360-94-7	22.00
2	Benzo[c]thiophen-1(3H)-one, 3-(3-ox	140932	023667-32-5	22.00
3	1,2-Benzenedicarboxylic acid	35572	000088-99-3	22.00
4	N,N'-Bis(2-hydroxy-alpha-methylbenz	141160	005464-60-8	22.00
5	1,3,5-Triphenylpyrazole	141410	002183-27-9	18.00



: 00173

Library Search Compound Report

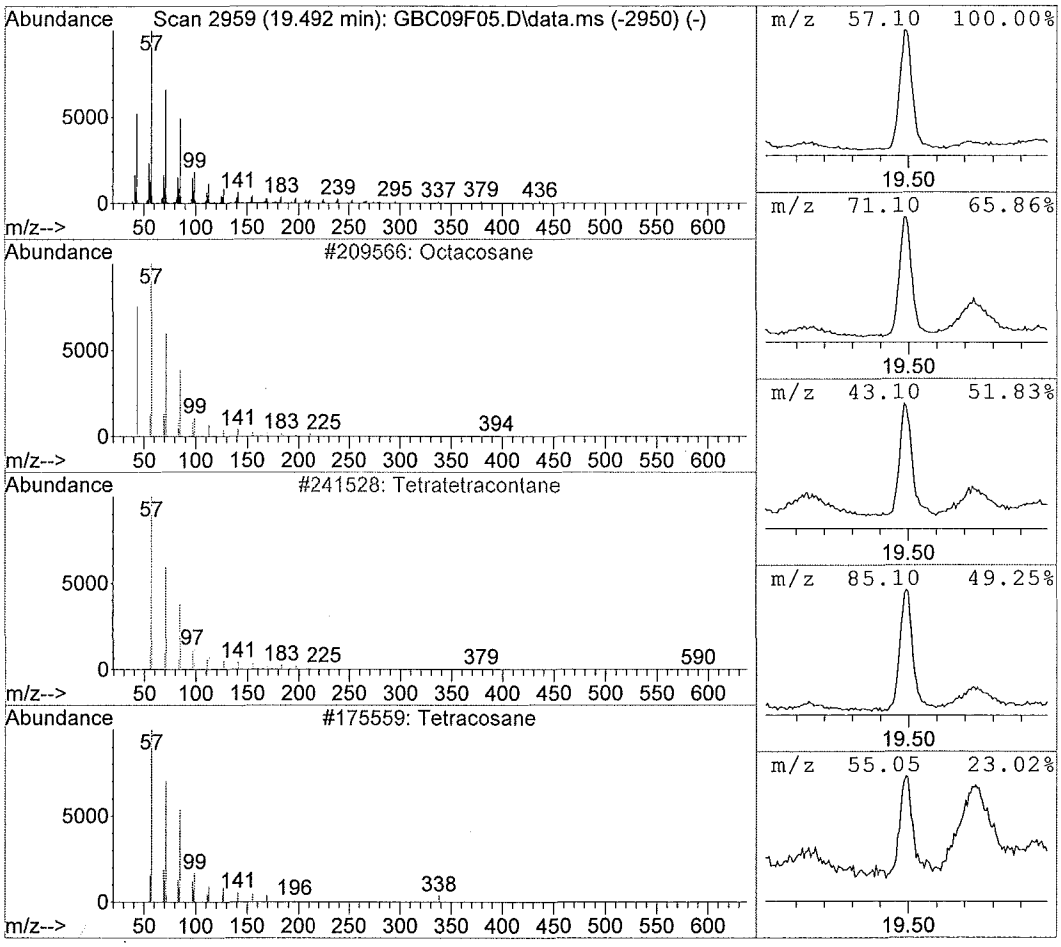
Data File : R:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.49	3.02 ug/ml	462500	Perylene-d12	3062011

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octacosane	209566	000630-02-4	90.00
2	Tetratetracontane	241528	007098-22-8	90.00
3	Tetracosane	175559	000646-31-1	90.00
4	Hentriacontane	223851	000630-04-6	90.00
5	2-methyloctacosane	215181	1000376-72-8	90.00

SCA



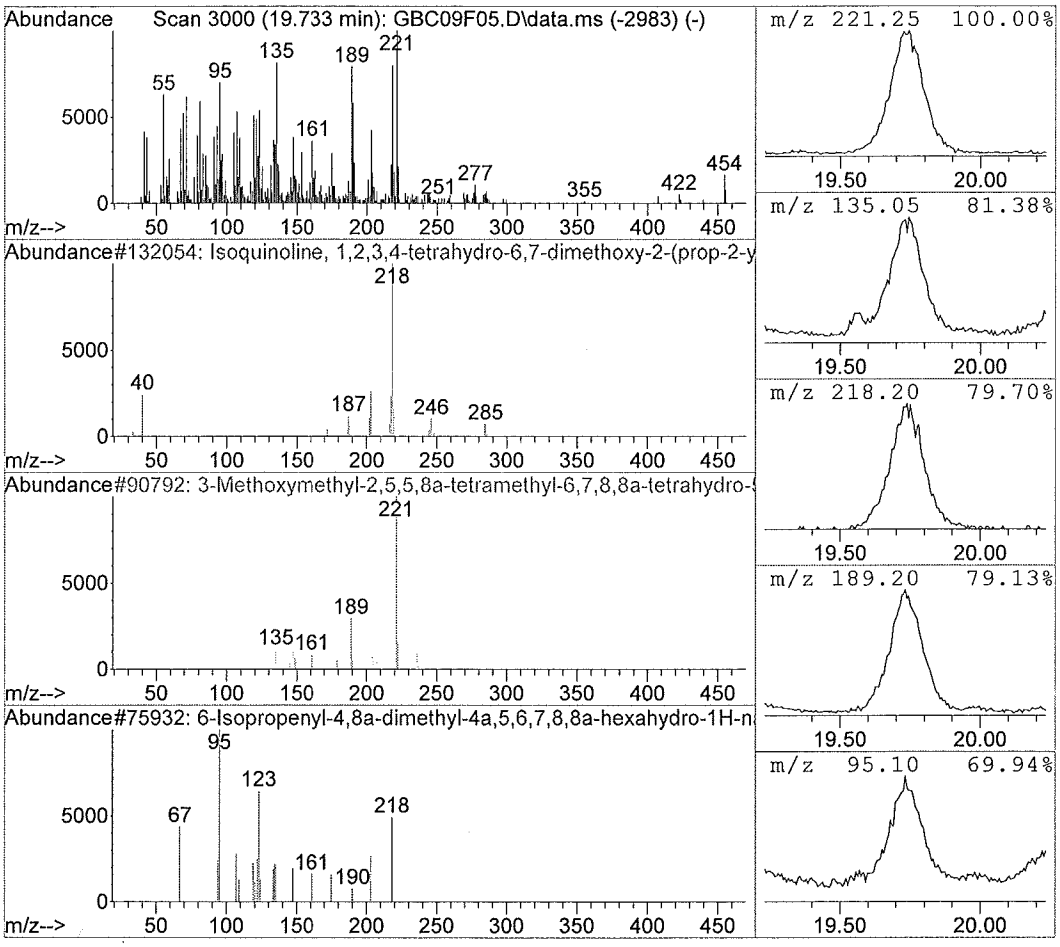
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.73	10.85 ug/ml	1661639	Perylene-d12	3062011

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Isoquinoline, 1,2,3,4-tetrahydro-6,	132054	308105-71-7	44.00
2	3-Methoxymethyl-2,5,5,8a-tetramethy	90792	064201-73-6	38.00
3	6-Isopropenyl-4,8a-dimethyl-4a,5,6,	75932	086917-79-5	38.00
4	2,2,6-Trimethyl-1-(2-methyl-cyclobu	75924	1000188-72-8	35.00
5	Indeno[2,1-b]chromene,	75955	000243-24-3	20.00



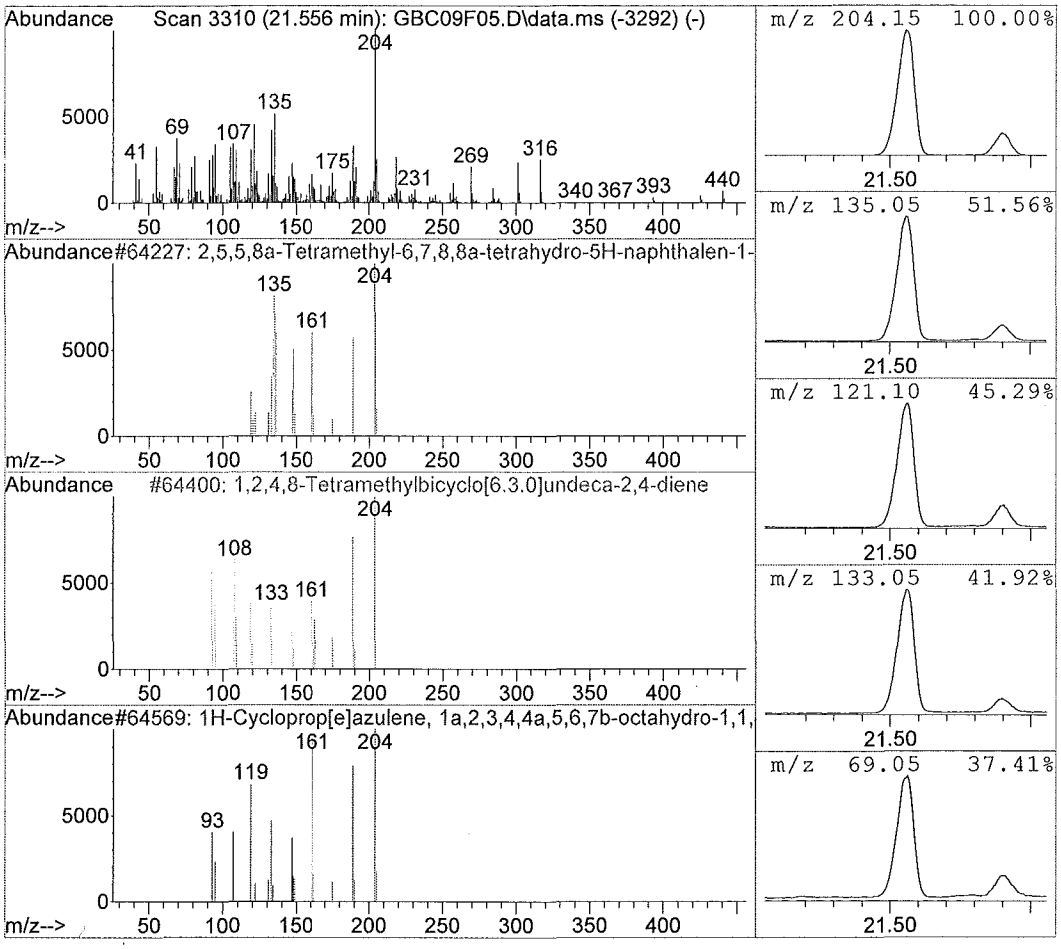
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.56	76.07 ug/ml	11646429	Perylene-d12	3062011

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	46.00
2	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	46.00
3	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64569	000489-40-7	46.00
4	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	43.00
5	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	41.00



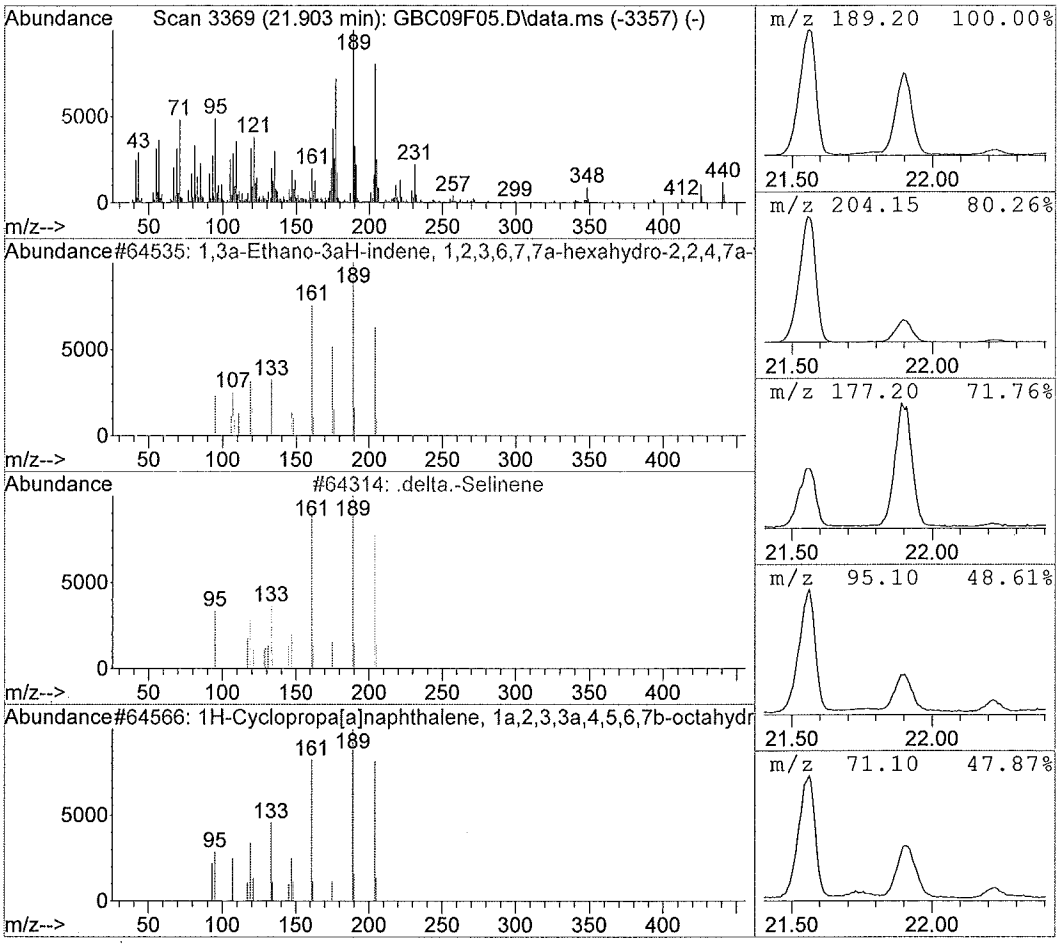
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	17.39 ug/ml	2662870	Perylene-d12	3062011

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3a-Ethano-3aH-indene, 1,2,3,6,7,7	64535	004545-68-0	64.00
2	.delta.-Selinene	64314	028624-23-9	47.00
3	1H-Cyclopropa[a]naphthalene, 1a,2,3	64566	000489-29-2	43.00
4	2,3-Dimethoxy-5-aminocinnamonitrile	63841	1000214-46-5	38.00
5	1-(4,5-Dimethyl-6H-thiopyran-2-yl)-	64845	1000318-25-0	35.00



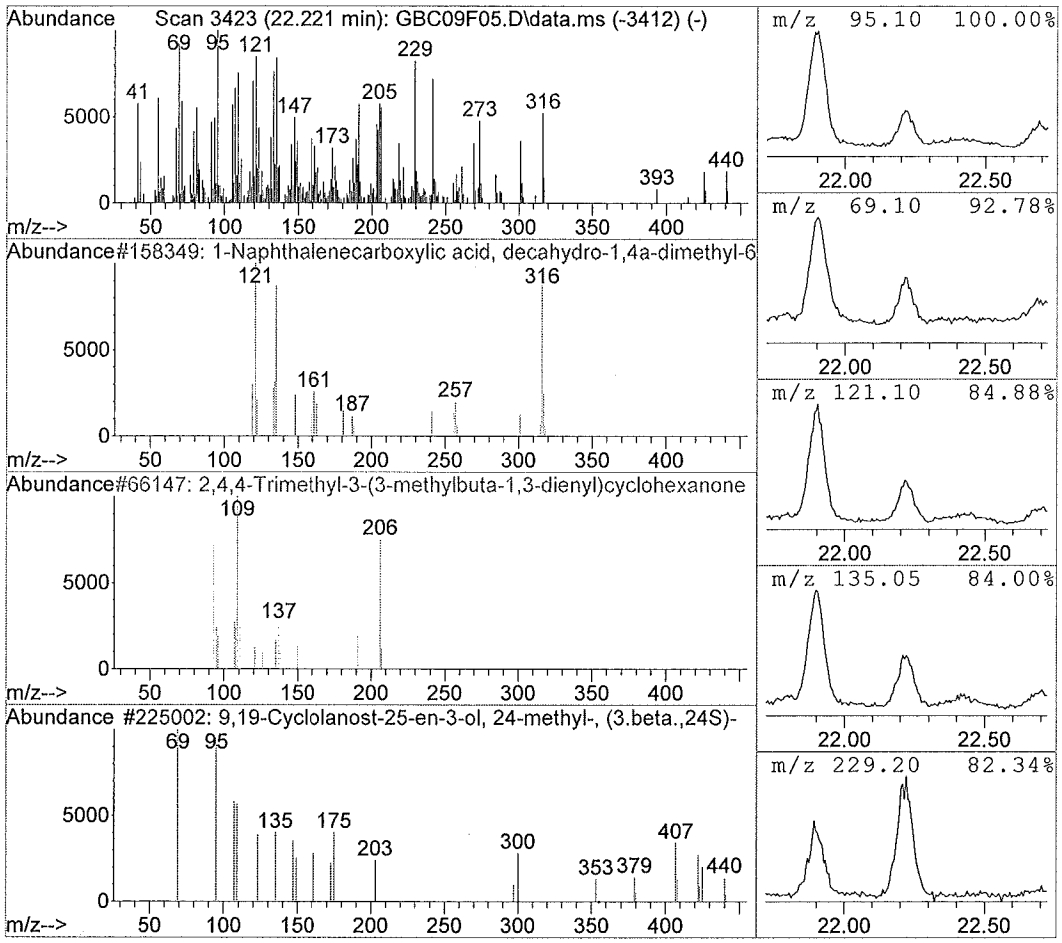
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.22	4.54 ug/ml	695529	Perylene-d12	3062011

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Naphthalenecarboxylic acid, decah	158349	001235-39-8	60.00
2	2,4,4-Trimethyl-3-(3-methylbuta-1,3	66147	097452-05-6	56.00
3	9,19-Cyclolanost-25-en-3-ol, 24-met	225002	000511-61-5	48.00
4	2-(4-Methoxy-2,5-dimethyl-phenyl)-9	158274	1000189-03-9	41.00
5	Cyclohexanone, 2,6-bis(2-methylprop	66124	092368-82-6	38.00



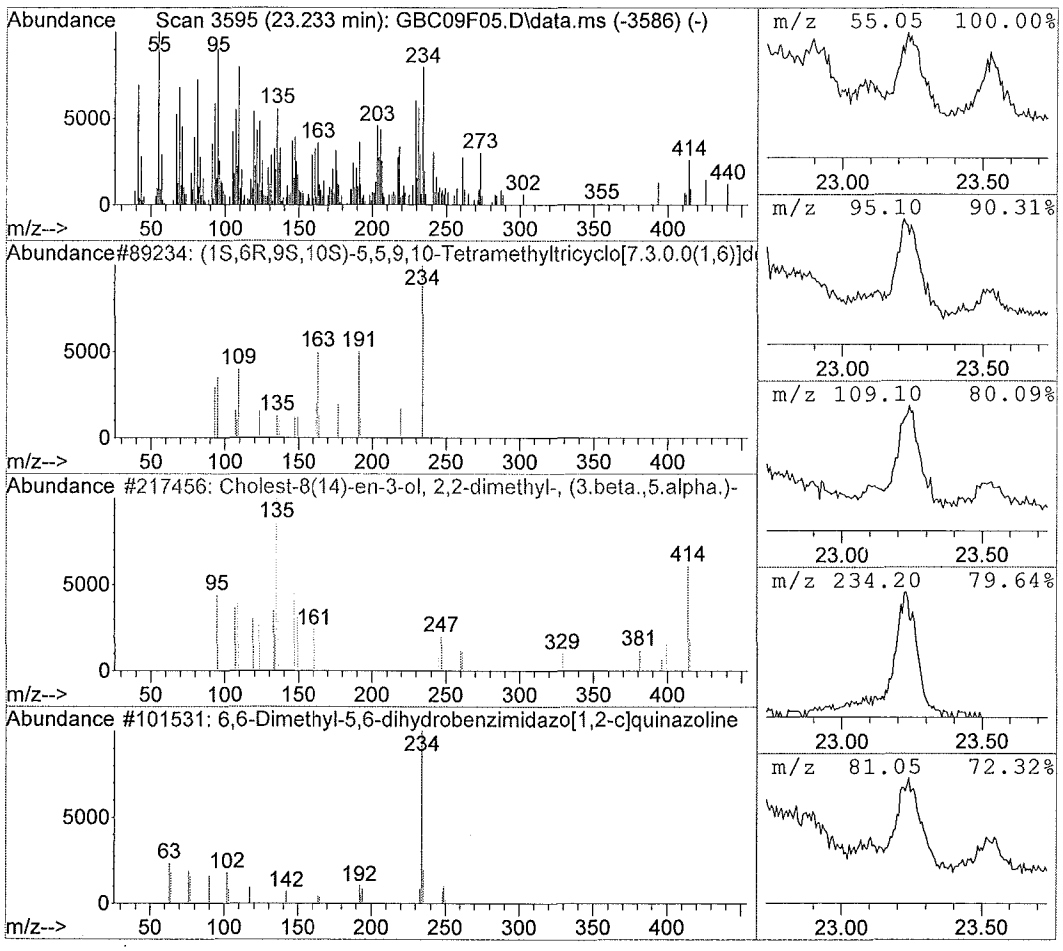
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.23	4.83 ug/ml	739761	Perylene-d12	3062011

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	(1S,6R,9S,10S)-5,5,9,10-Tetramethyl	89234	1000298-98-1	58.00
2	Cholest-8(14)-en-3-ol, 2,2-dimethyl	217456	064519-14-8	55.00
3	6,6-Dimethyl-5,6-dihydrobenzimidazo	101531	060418-25-9	25.00
4	1,9,12-Trioxa-4,6-diazacyclotetrade	89470	075491-64-4	25.00
5	Cholest-7-en-3-ol, 2,2-dimethyl-, (	217452	064519-13-7	25.00



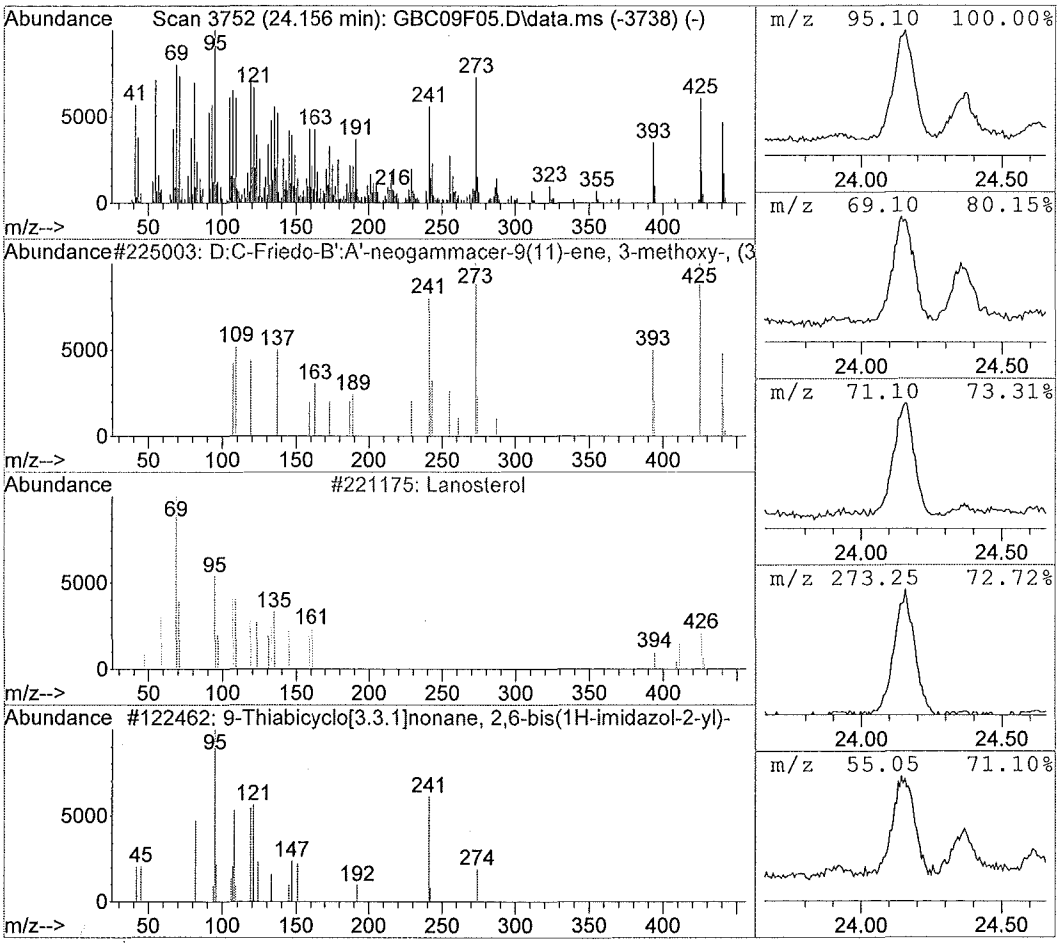
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.16	10.55 ug/ml	1614565	Perylene-d12	3062011

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	D:C-Friedo-B':A'-neogammacer-9(11)-	225003	004555-56-0	58.00
2	Lanosterol	221175	000079-63-0	25.00
3	9-Thiabicyclo[3.3.1]nonane, 2,6-bis	122462	1000141-52-1	18.00
4	1,6-Dihydropyridazine-3-carboxylic	121642	1000304-05-0	18.00
5	Cyclopentanecarboxylic acid, 1,2,2-	144828	1000302-75-5	15.00



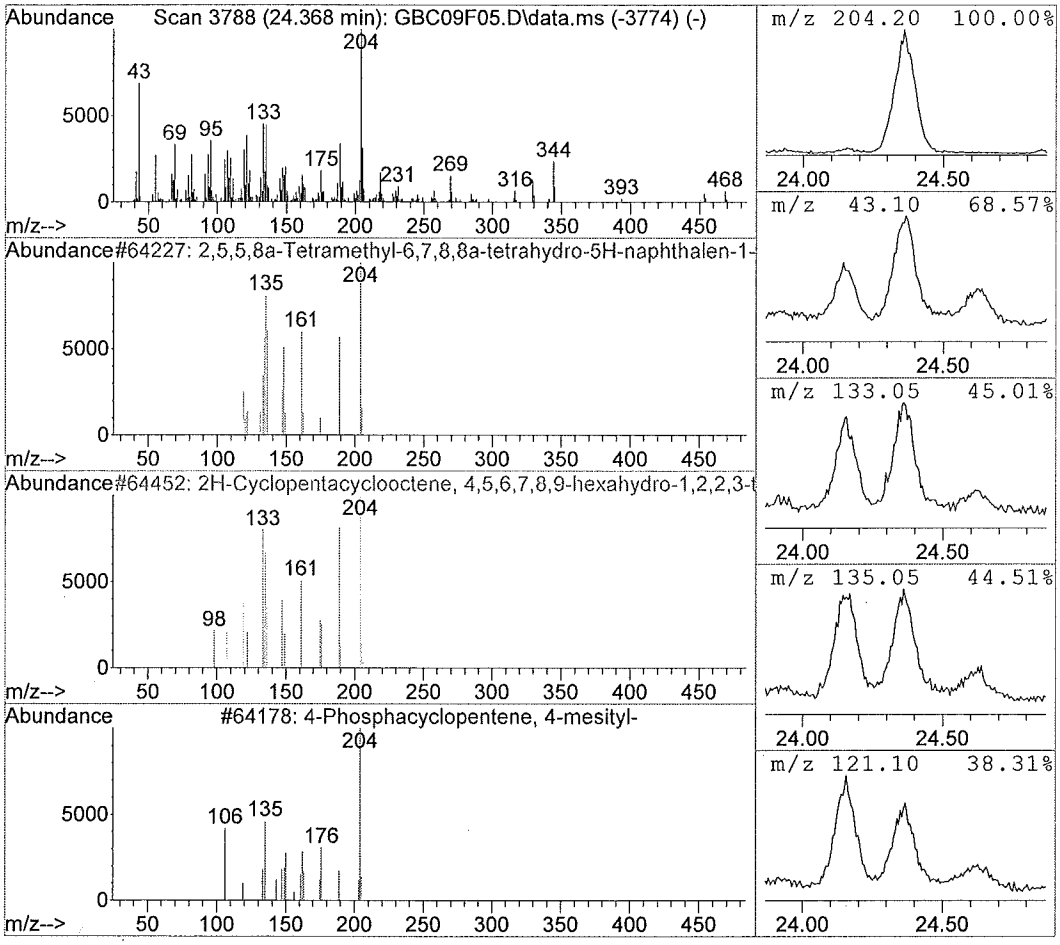
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.37	6.02 ug/ml	921994	Perylene-d12	3062011

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	60.00
2	2H-Cyclopentacyclooctene, 4,5,6,7,8	64452	1000221-85-8	53.00
3	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	52.00
4	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	43.00
5	1,1,4a-Trimethyl-5,6-dimethylenedec	64407	1000193-60-8	43.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L63

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293006

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCM08F06

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/06/2015

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	220	U
108-95-2	Phenol	220	U
111-44-4	Bis(2-chloroethyl)ether	220	U
95-57-8	2-Chlorophenol	220	U
95-48-7	2-Methylphenol	220	U
108-60-1	2,2'-Oxybis(1-chloropropane)	220	U
98-86-2	Acetophenone	220	U
106-44-5	4-Methylphenol	220	U
621-64-7	N-Nitroso-di-n-propylamine	220	U
67-72-1	Hexachloroethane	220	U
98-95-3	Nitrobenzene	220	U
78-59-1	Isophorone	220	U
88-75-5	2-Nitrophenol	220	U
105-67-9	2,4-Dimethylphenol	220	U
111-91-1	Bis(2-chloroethoxy)methane	220	U
120-83-2	2,4-Dichlorophenol	220	U
91-20-3	Naphthalene	220	U
106-47-8	4-Chloroaniline	220	U
87-68-3	Hexachlorobutadiene	220	U
105-60-2	Caprolactam	220	U
59-50-7	4-Chloro-3-methylphenol	220	U
91-57-6	2-Methylnaphthalene	220	U
77-47-4	Hexachlorocyclopentadiene	220	U
88-06-2	2,4,6-Trichlorophenol	220	U
95-95-4	2,4,5-Trichlorophenol	220	U
92-52-4	1,1'-Biphenyl	220	U
91-58-7	2-Chloronaphthalene	220	U
88-74-4	2-Nitroaniline	420	U
131-11-3	Dimethylphthalate	220	U
606-20-2	2,6-Dinitrotoluene	220	U
208-96-8	Acenaphthylene	220	U
99-09-2	3-Nitroaniline	420	U
83-32-9	Acenaphthene	220	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: F9L63

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293006
Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCM08F06
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 22. Decanted: (Y/N) N Date Received: 05/22/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/06/2015
GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	420	U
100-02-7	4-Nitrophenol	420	U
132-64-9	Dibenzofuran	220	U
121-14-2	2,4-Dinitrotoluene	220	U
84-66-2	Diethylphthalate	220	U
86-73-7	Fluorene	220	U
7005-72-3	4-Chlorophenyl-phenylether	220	U
100-01-6	4-Nitroaniline	420	U
534-52-1	4,6-Dinitro-2-methylphenol	420	U
86-30-6	N-Nitrosodiphenylamine[1]	220	U
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U
101-55-3	4-Bromophenyl-phenylether	220	U
118-74-1	Hexachlorobenzene	220	U
1912-24-9	Atrazine	220	U
87-86-5	Pentachlorophenol	420	U
85-01-8	Phenanthrene	220	U
120-12-7	Anthracene	220	U
86-74-8	Carbazole	220	U
84-74-2	Di-n-butylphthalate	220	U
206-44-0	Fluoranthene	220	U
129-00-0	Pyrene	220	U
85-68-7	Butylbenzylphthalate	220	U
91-94-1	3,3'-Dichlorobenzidine	220	U
56-55-3	Benzo(a)anthracene	220	U
218-01-9	Chrysene	220	U
117-81-7	Bis(2-ethylhexyl)phthalate	22.	J
117-84-0	Di-n-octylphthalate	220	U
205-99-2	Benzo(b)fluoranthene	220	U
207-08-9	Benzo(k)fluoranthene	220	U
50-32-8	Benzo(a)pyrene	220	U
193-39-5	Indeno(1,2,3-cd)pyrene	220	U
53-70-3	Dibenzo(a,h)anthracene	220	U
191-24-2	Benzo(g,h,i)perylene	220	U
58-90-2	2,3,4,6-Tetrachlorophenol	220	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.:

F9L63

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293006

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCM08F06

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/06/2015

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Methacrylamide	2.80	130	J
02		Unknown 2-Pentanone, 5-(acetyloxy)-	3.30	170	J
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.50	7000	J
04		Unknown 1H-Pyrrole-2,5-dione	4.28	370	J
05		Unknown 2-Pentanone, 3-methyl-	4.59	190	J
06		Unknown Butanal, ethylhydrazone	4.98	90.	J
07	1000336-31-4	Methyl 13-methyltetradecanoate	11.31	130	JN
08	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	12.25	190	JN
09	1000336-35-5	Methyl 11-hexadecenoate	12.32	97.	JN
10	112-39-0	Hexadecanoic acid, methyl ester	12.40	230	JN
11	1120-16-7	Dodecanamide	12.76	110	JN
12	2566-97-4	9,12-Octadecadienoic acid, methyl ester, (E,E)-	13.64	110	JN
13	1937-62-8	9-Octadecenoic acid, methyl ester, (E)-	13.68	280	JN
14	1000333-58-3	cis-13-Octadecenoic acid, methyl ester	13.72	130	JN
15	1120-16-7	Dodecanamide	14.15	360	JN
16	301-02-0	9-Octadecenamide, (Z)-	15.07	2400	JNB
17	629-54-9	Hexadecanamide	15.17	120	JN
18		Unknown 9-Octadecenamide, (Z)-	15.86	150	JB
19		Unknown 9-Octadecenamide, (Z)-	15.93	95.	JB
20		Unknown Nona-2,3-dienoic acid, ethyl ester	16.20	230	J
21	124-26-5	Octadecanamide	16.97	370	JN
22	111-02-4	Squalene	17.15	120	JN
23		Unknown Phthalic anhydride	18.60	130	J
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	2100	J

[2] EPA-designated Registry Number.

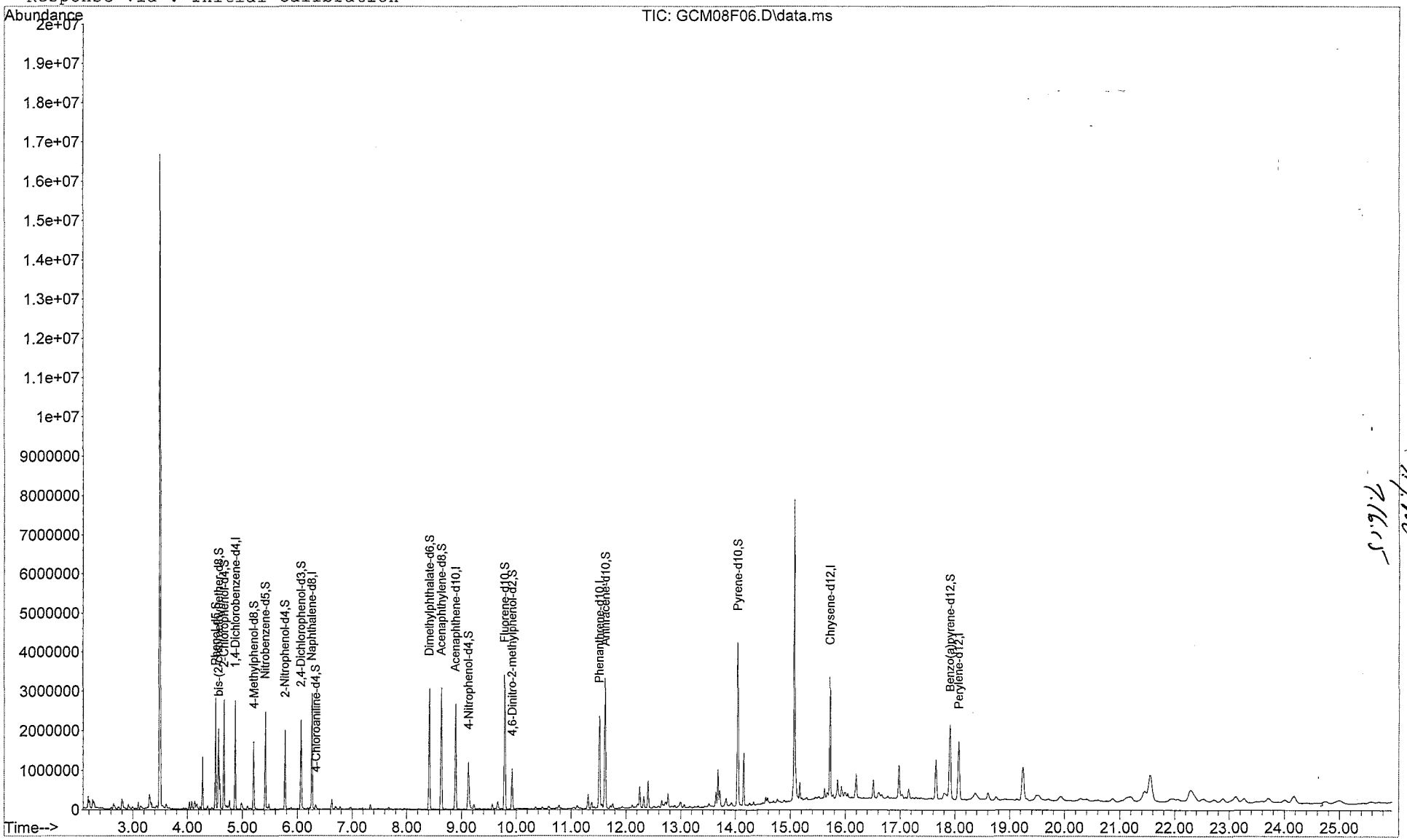
Quantitation Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D
Acq On : 07/06/2015 18:28
Sample : 1514293006 F9L63
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 15
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 15 14:13:09 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D Vial: 15
Acq On : 07/06/2015 18:28 Operator: TJM
Sample : 1514293006 F9L63 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 15 14:13:09 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	385286	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1425197	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	803442	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1324792	20.00 ug/ml
73) Chrysene-d12	15.72	240	1274929	20.00 ug/ml
81) Perylene-d12	18.07	264	1050316	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	817182	24.373ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	496878	19.017ug/mL
7) 2-Chlorophenol-d4	4.66	132	639707	22.597ug/ml
13) 4-Methylphenol-d8	5.20	113	335540	14.962ug/mL
17) Nitrobenzene-d5	5.42	128	281511	22.485ug/ml
21) 2-Nitrophenol-d4	5.77	143	318459	24.064ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	509280	24.715ug/mL
28) 4-Chloroaniline-d4	6.33	131	45268	2.013ug/mL
42) Dimethylphthalate-d6	8.42	166	1555099	30.867ug/mL
45) Acenaphthylene-d8	8.63	160	1816824	26.536ug/mL
50) 4-Nitrophenol-d4	9.13	143	258130	25.115ug/mL
57) Fluorene-d10	9.79	176	1277413	29.690ug/mL
61) 4,6-Dinitro-2-methylphenol	9.92	200	162406	17.272ug/mL
69) Anthracene-d10	11.62	188	1916361	27.277ug/mL
75) Pyrene-d10	14.04	212	1916394	30.120ug/mL
86) Benzo(a)pyrene-d12	17.91	264	1323229	26.292ug/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)

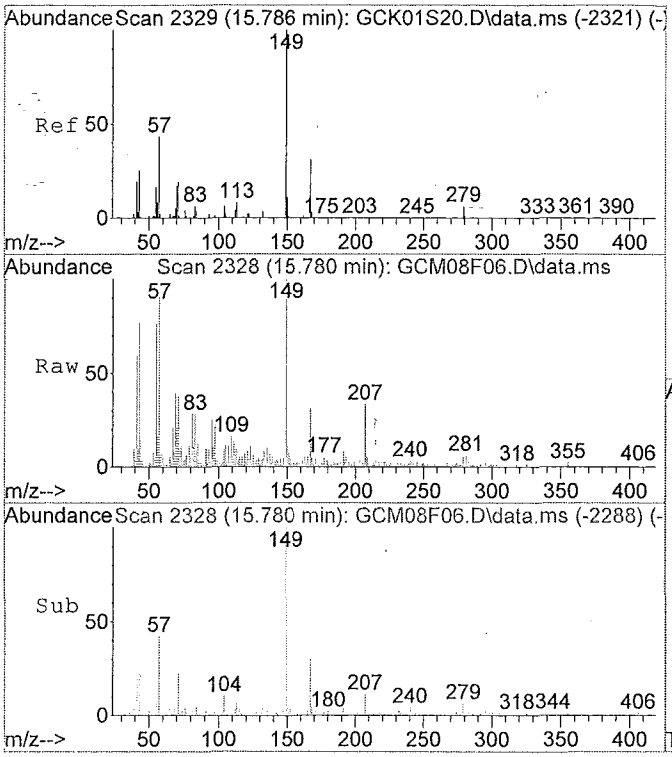
Quantitation Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D Vial: 15
Acq On : 07/06/2015 18:28 Operator: TJM
Sample : 1514293006 F9L63 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 15 14:13:09 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 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	15.78	149	32147	0.510ug/ml	98
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	0.00	252		Not Detected	
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	0.00	252		Not Detected	
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

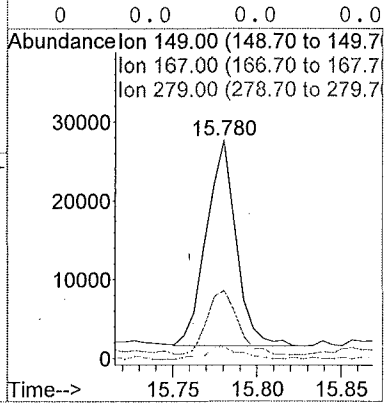
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#80
Bis-(2-ethylhexyl)phthalate
Concen: 0.51 ug/ml
RT: 15.78 min Scan# 2328
Delta R.T. -0.06 min
Lab File: GCM08F06.D
Acq: 07/06/2015 18:28

Tgt Ion:149 Resp: 32147

Ion	Ratio	Lower	Upper
149	100		
167	32.8	22.0	40.8
279	6.6	5.0	9.2
0	0.0	0.0	0.0



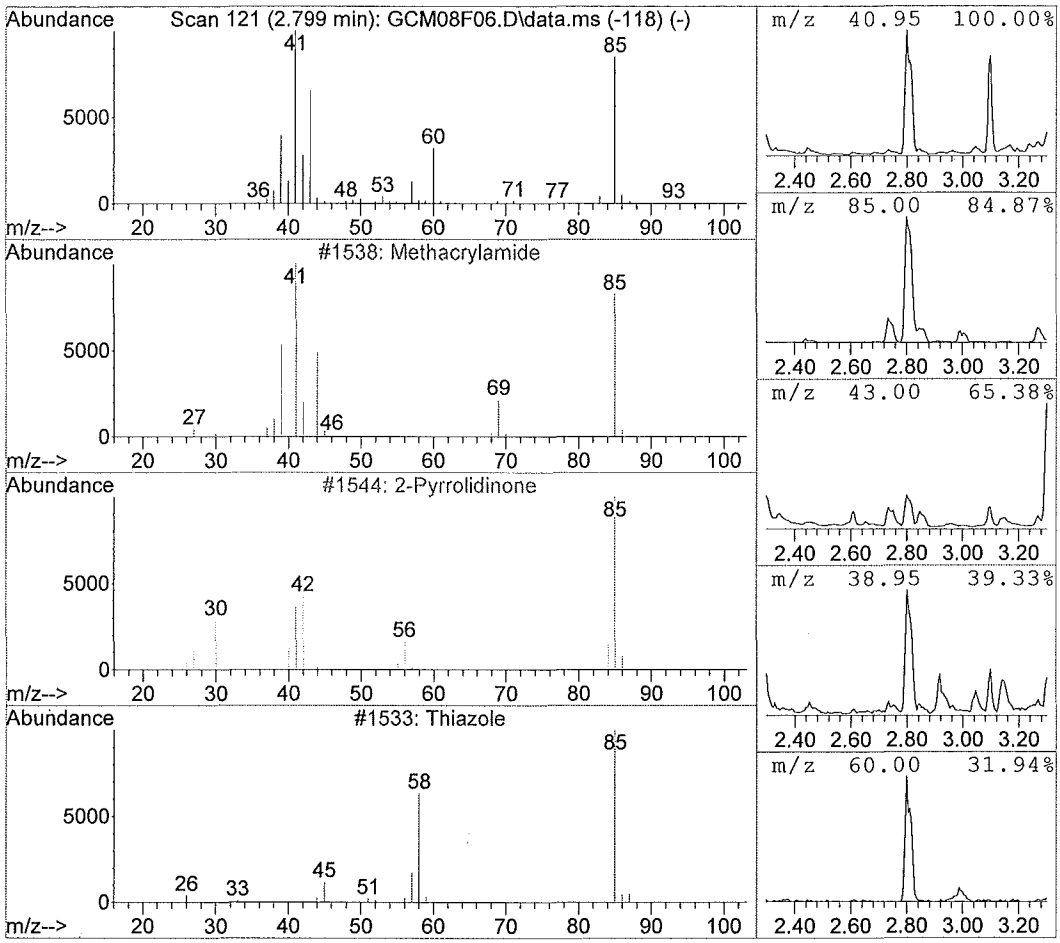
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D Vial: 15
Acq On : 07/06/2015 18:28 Operator: TJM
Sample : 1514293006 F9L63 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.80	3.01 ug/ml	407538	1,4-Dichlorobenzene-d4	2707529

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methacrylamide	1538	000079-39-0	53.00
2	2-Pyrrolidinone	1544	000616-45-5	38.00
3	Thiazole	1533	000288-47-1	35.00
4	2,2-Dimethylvaleroyl chloride	23063	015721-22-9	23.00
5	2,2'-Bi-2H-pyran, octahydro-	37957	016282-29-4	17.00



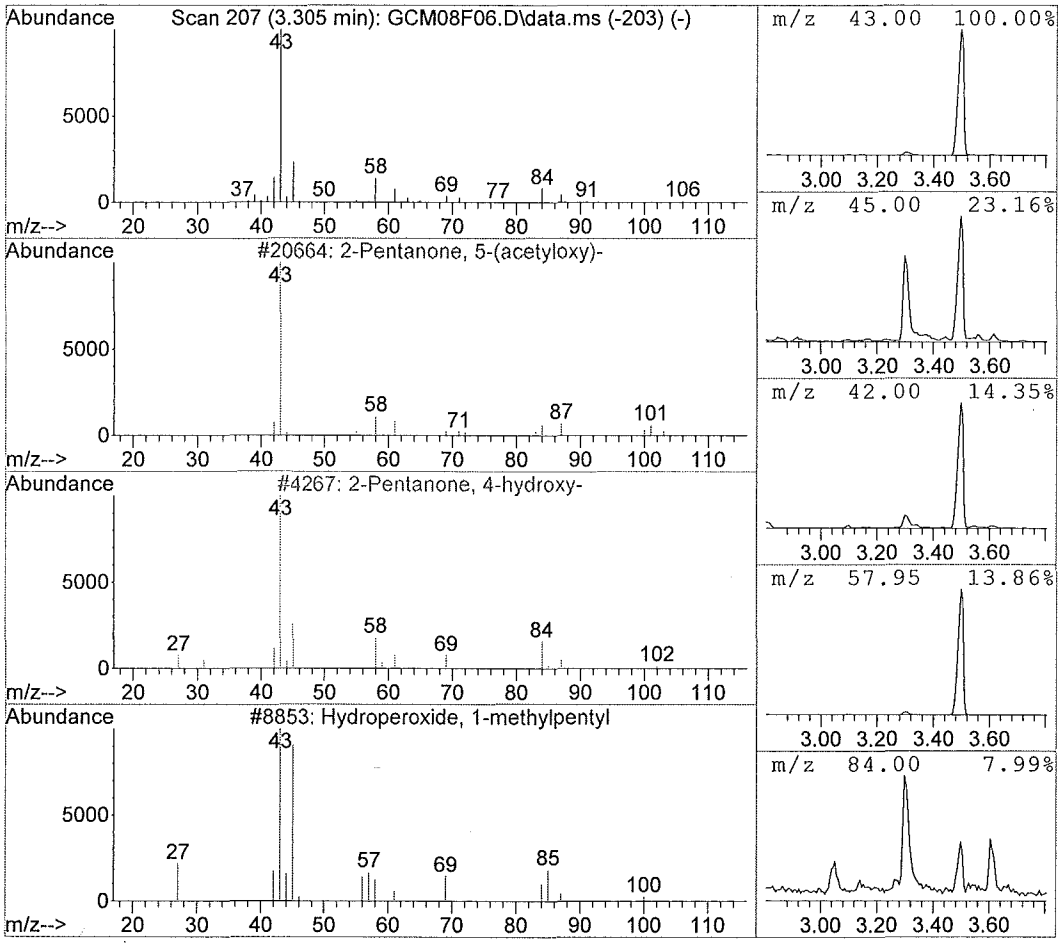
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D Vial: 15
Acq On : 07/06/2015 18:28 Operator: TJM
Sample : 1514293006 F9L63 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.30	3.97 ug/ml	537964	1,4-Dichlorobenzene-d4	2707529

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 5-(acetyloxy)-	20664	005185-97-7	40.00
2	2-Pentanone, 4-hydroxy-	4267	004161-60-8	39.00
3	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	30.00
4	Ethylamine	86	000075-04-7	9.00
5	Methyl glyoxal	628	000078-98-8	9.00



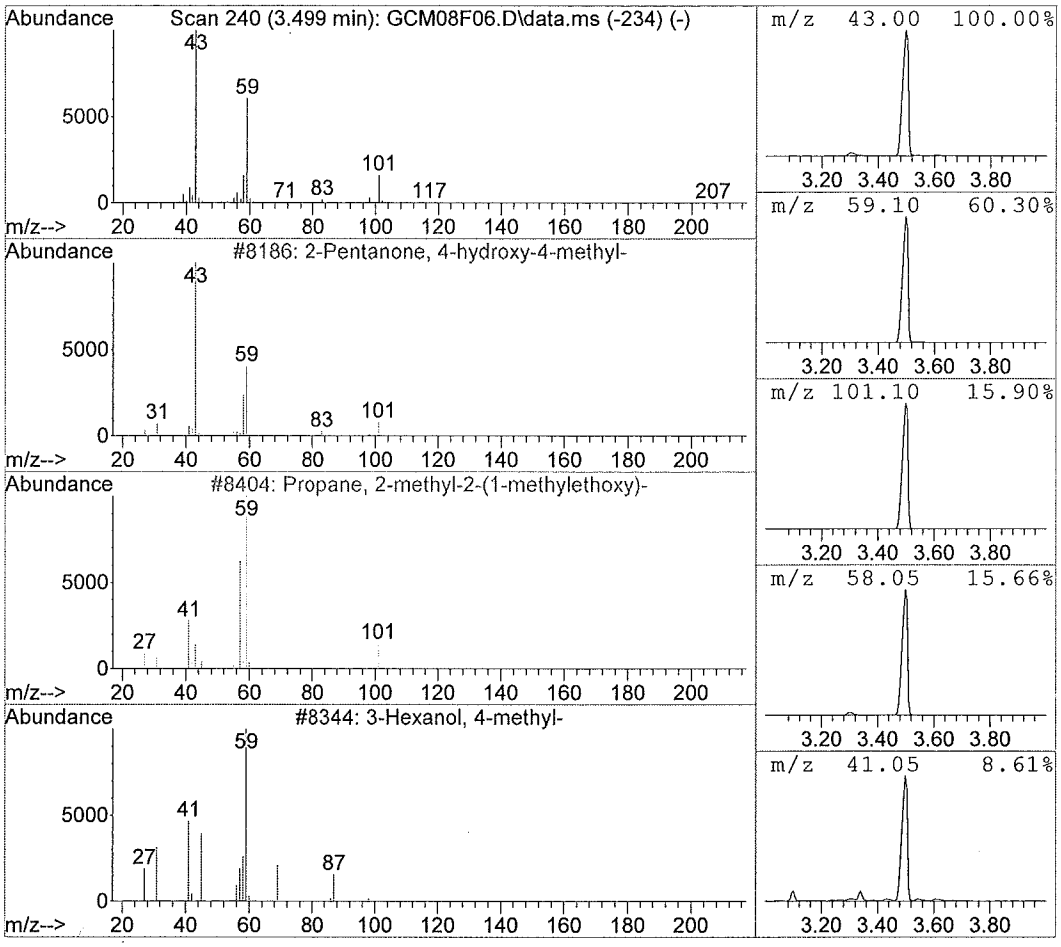
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D Vial: 15
Acq On : 07/06/2015 18:28 Operator: TJM
Sample : 1514293006 F9L63 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.50	164.63 ug/ml	22287459	1,4-Dichlorobenzene-d4	2707529

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
2	Propane, 2-methyl-2-(1-methylethoxy	8404	017348-59-3	36.00
3	3-Hexanol, 4-methyl-	8344	000615-29-2	33.00
4	2-Hexanol, 2-methyl-	8346	000625-23-0	28.00
5	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	23.00



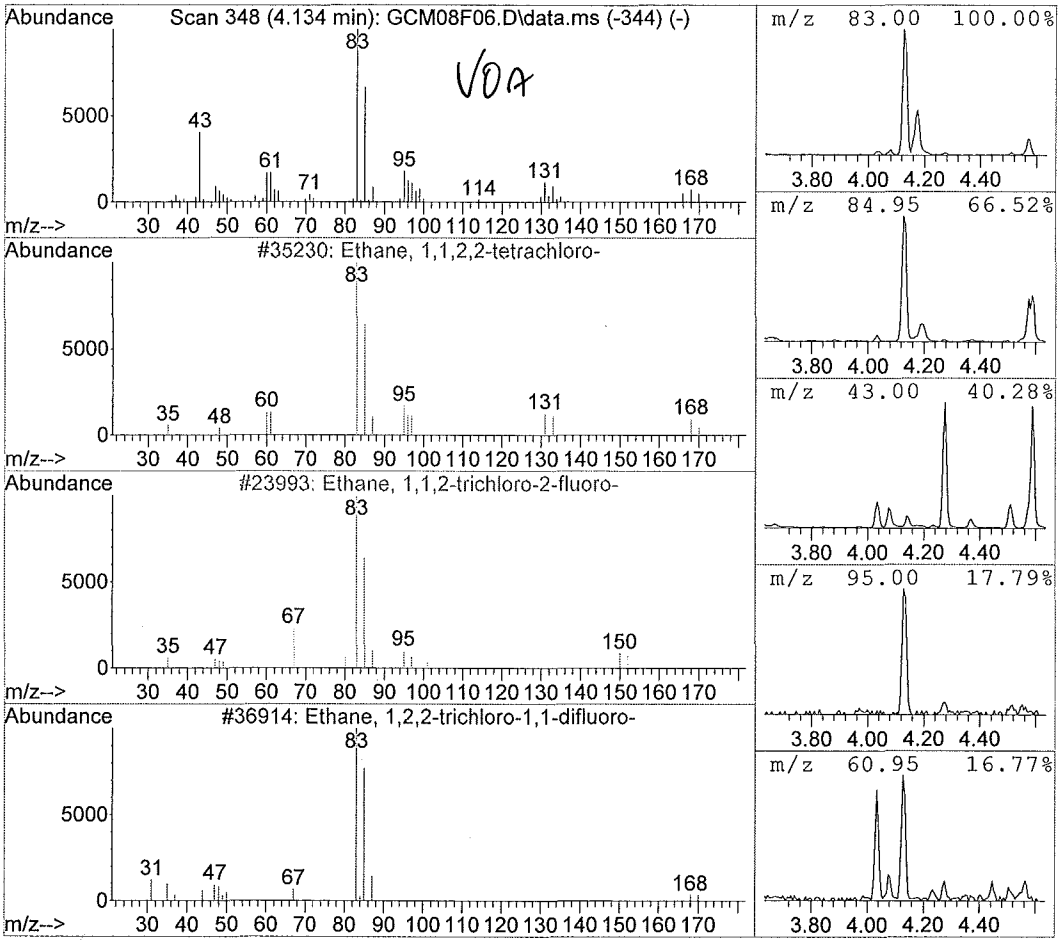
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D Vial: 15
Acq On : 07/06/2015 18:28 Operator: TJM
Sample : 1514293006 F9L63 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.13	2.08 ug/ml	281083	1,4-Dichlorobenzene-d4	2707529

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	35230	000079-34-5	97.00
2	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	59.00
3	Ethane, 1,2,2-trichloro-1,1-difluor	36914	000354-21-2	50.00
4	Ethane, 2,2-dichloro-1,1,1-trifluor	25466	000306-83-2	42.00
5	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	42.00



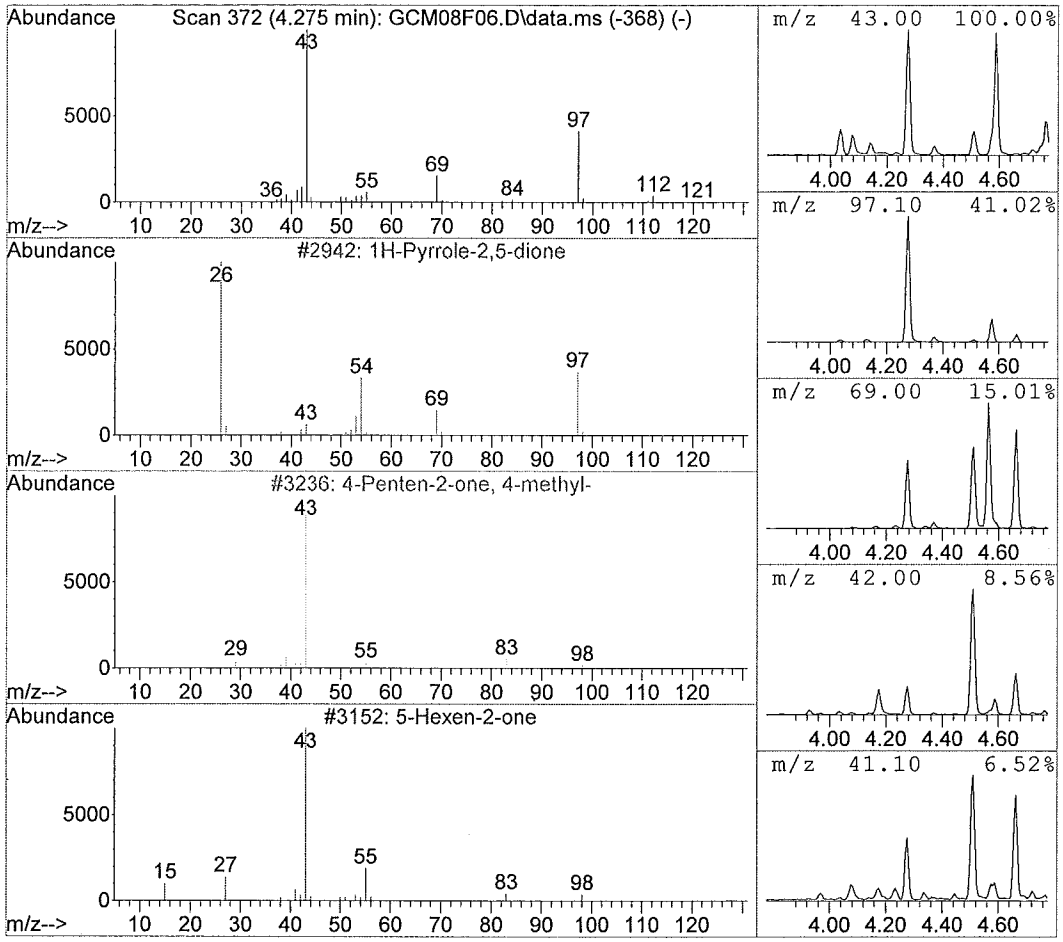
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D Vial: 15
Acq On : 07/06/2015 18:28 Operator: TJM
Sample : 1514293006 F9L63 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.28	8.69 ug/ml	1176957	1,4-Dichlorobenzene-d4	2707529

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	38.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	5-Hexen-2-one	3152	000109-49-9	9.00
4	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00
5	2-Propyn-1-ol, acetate	3098	000627-09-8	5.00



00193

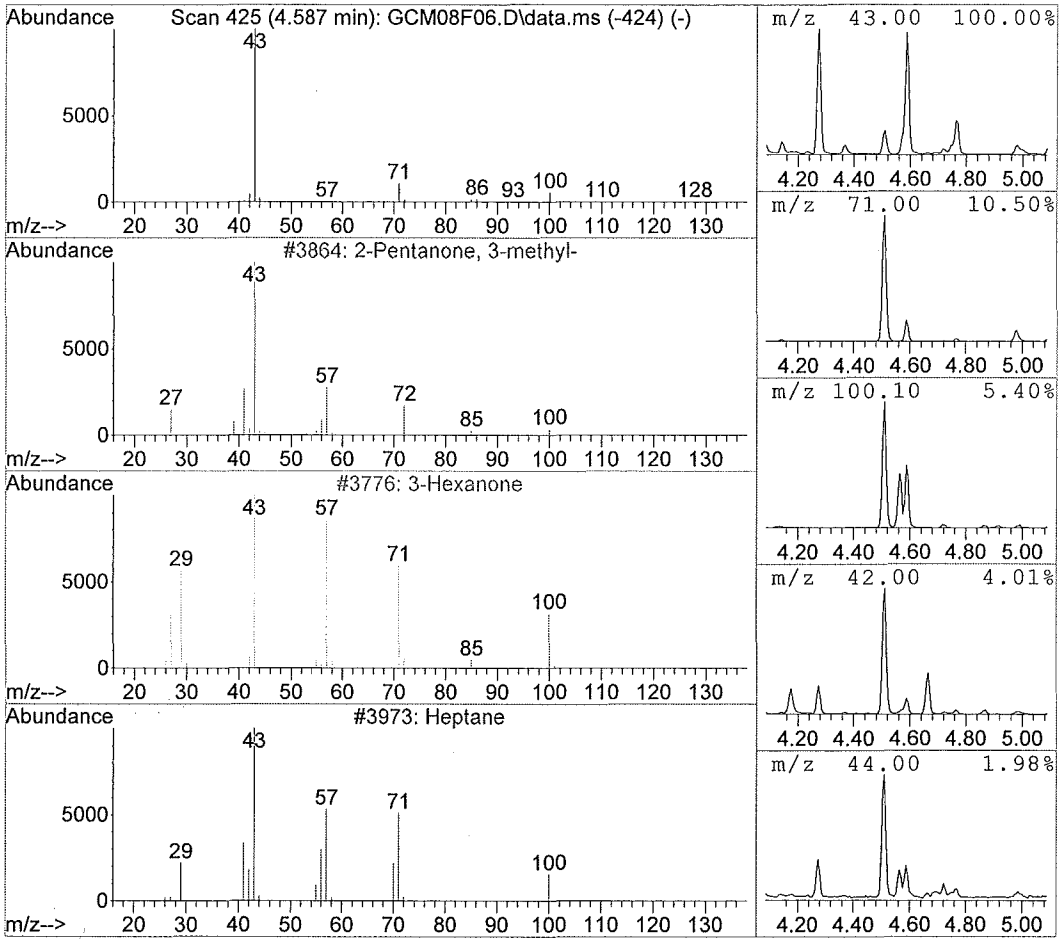
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D Vial: 15
Acq On : 07/06/2015 18:28 Operator: TJM
Sample : 1514293006 F9L63 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.59	4.35 ug/ml	588745	1,4-Dichlorobenzene-d4	2707529

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
2	3-Hexanone	3776	000589-38-8	5.00
3	Heptane	3973	000142-82-5	4.00
4	Pentane, 2-methyl-	1823	000107-83-5	4.00
5	Hexane, 2-methyl-	3979	000591-76-4	4.00



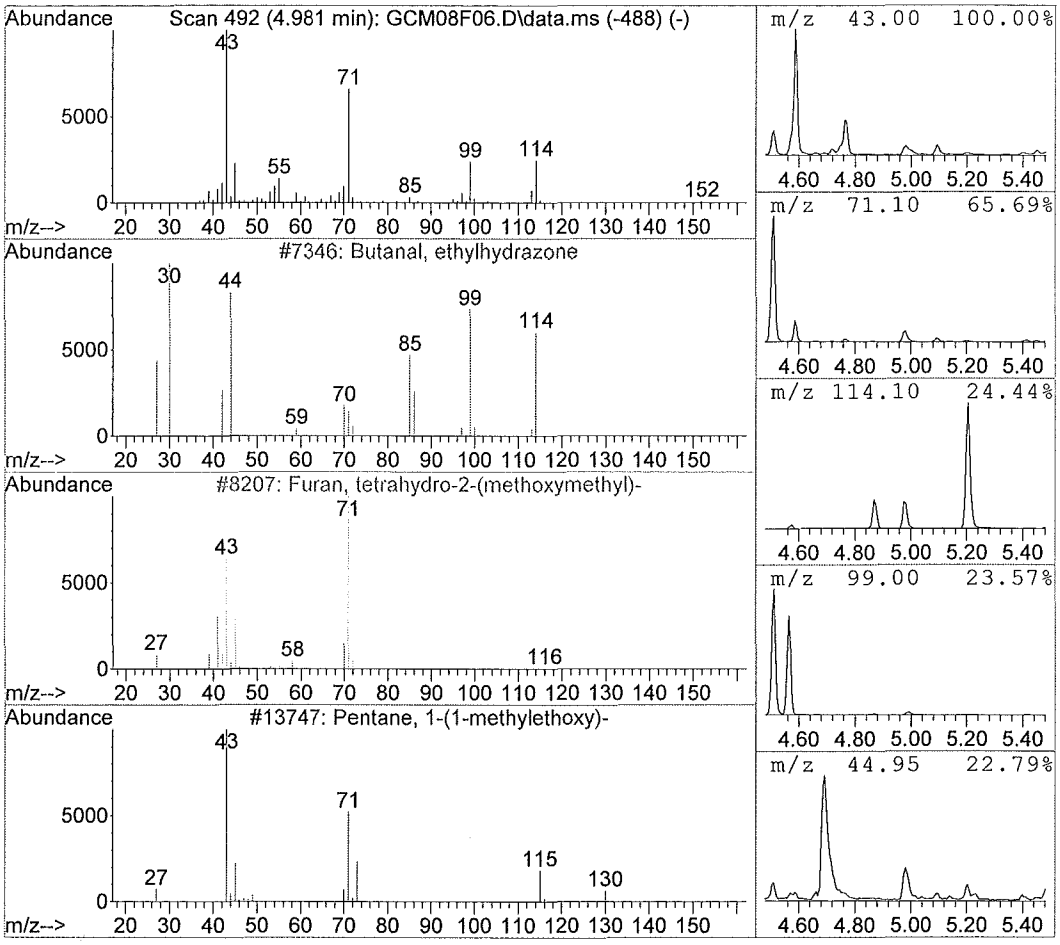
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D Vial: 15
Acq On : 07/06/2015 18:28 Operator: TJM
Sample : 1514293006 F9L63 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.98	2.11 ug/ml	285742	1,4-Dichlorobenzene-d4	2707529

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Butanal, ethylhydrazone	7346	051576-30-8	35.00
2	Furan, tetrahydro-2-(methoxymethyl)	8207	019354-27-9	32.00
3	Pentane, 1-(1-methylethoxy)-	13747	005756-37-6	32.00
4	3-Heptanone, 2,6-dimethyl-	20005	019549-83-8	27.00
5	Sulfurous acid, pentyl 2-propyl est	56799	1000309-11-5	25.00



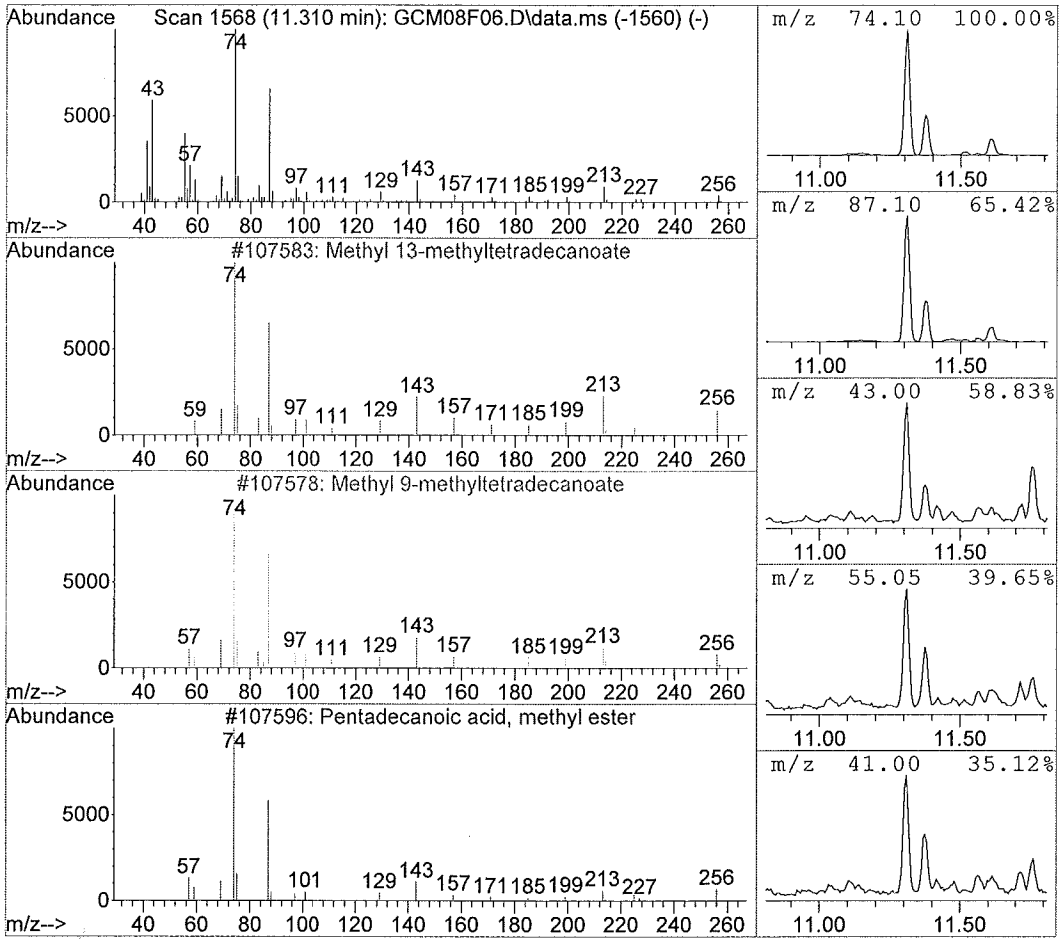
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D Vial: 15
Acq On : 07/06/2015 18:28 Operator: TJM
Sample : 1514293006 F9L63 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.31	2.99 ug/ml	524463	Phenanthrene-d10	3509366

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methyl 13-methyltetradecanoate	107583	1000336-31-4	97.00
2	Methyl 9-methyltetradecanoate	107578	213617-69-7	93.00
3	Pentadecanoic acid, methyl ester	107596	007132-64-1	91.00
4	Tridecanoic acid, 12-methyl-, methy	95897	005129-58-8	86.00
5	Dodecanoic acid, methyl ester	72687	000111-82-0	81.00



:00196

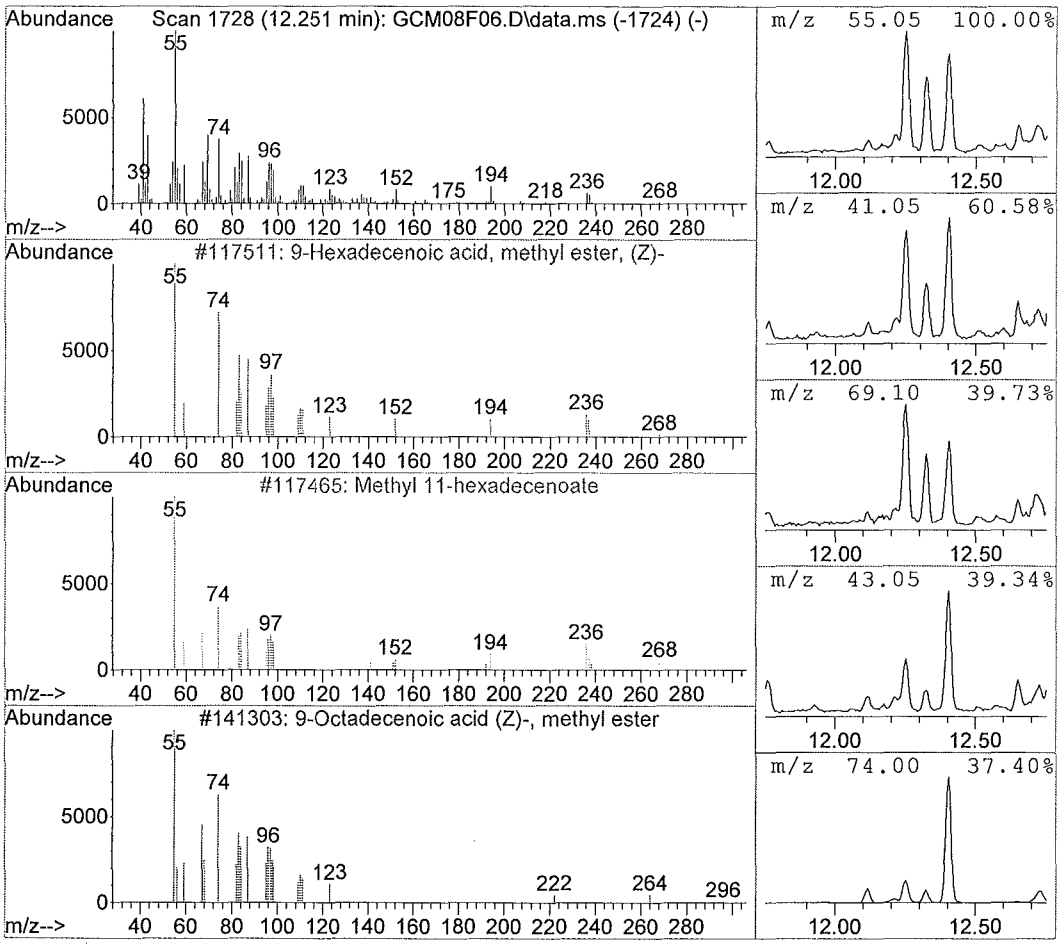
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D Vial: 15
Acq On : 07/06/2015 18:28 Operator: TJM
Sample : 1514293006 F9L63 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.25	4.34 ug/ml	761260	Phenanthrene-d10	3509366

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Hexadecenoic acid, methyl ester,	117511	001120-25-8	96.00
2	Methyl 11-hexadecenoate	117465	1000336-35-5	80.00
3	9-Octadecenoic acid (Z)-, methyl es	141303	000112-62-9	70.00
4	Cyclopropaneoctanoic acid, 2-hexyl-	129412	010152-61-1	64.00
5	E-9-Tetradecenoic acid	82768	1000131-35-8	53.00



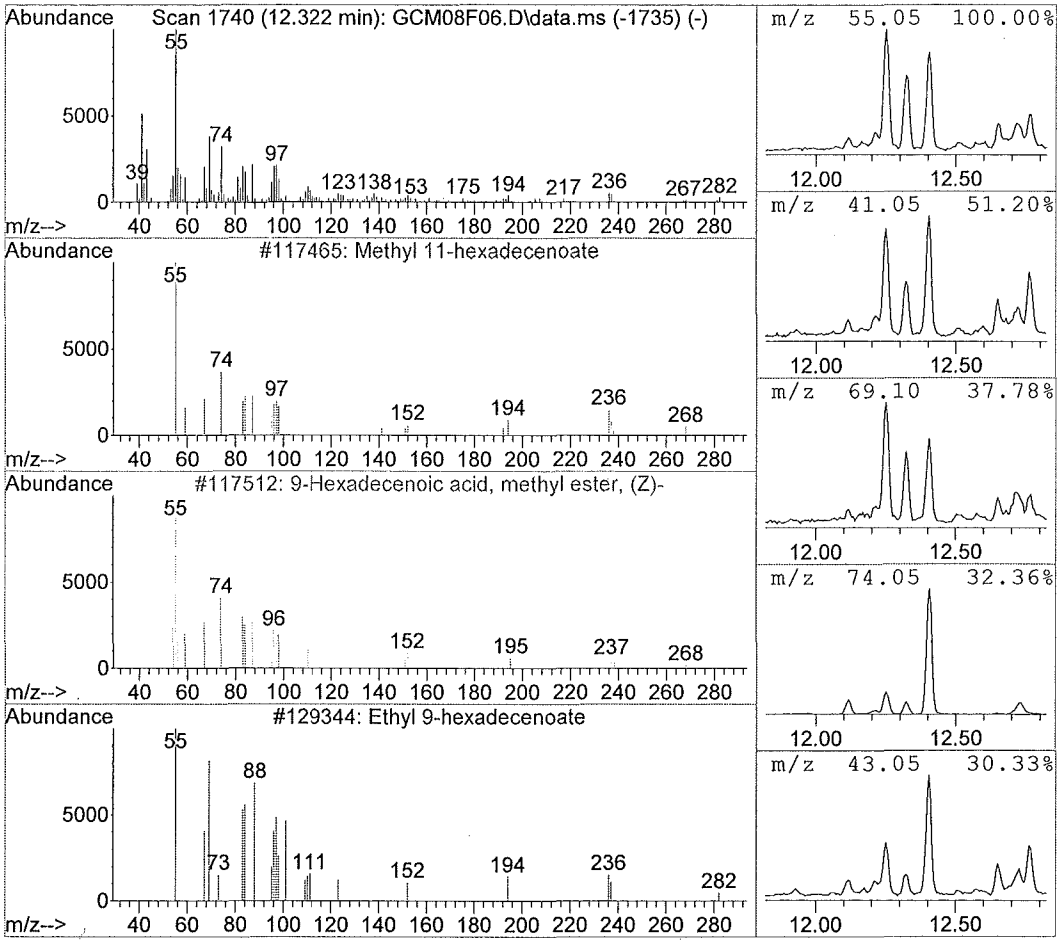
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D Vial: 15
Acq On : 07/06/2015 18:28 Operator: TJM
Sample : 1514293006 F9L63 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.32	2.28 ug/ml	400918	Phenanthrene-d10	3509366

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methyl 11-hexadecenoate	117465	1000336-35-5	93.00
2	9-Hexadecenoic acid, methyl ester,	117512	001120-25-8	93.00
3	Ethyl 9-hexadecenoate	129344	054546-22-4	90.00
4	cis-10-Heptadecenoic acid, methyl e	129385	1000333-62-1	70.00
5	7-Hexadecenoic acid, methyl ester,	117506	056875-67-3	68.00



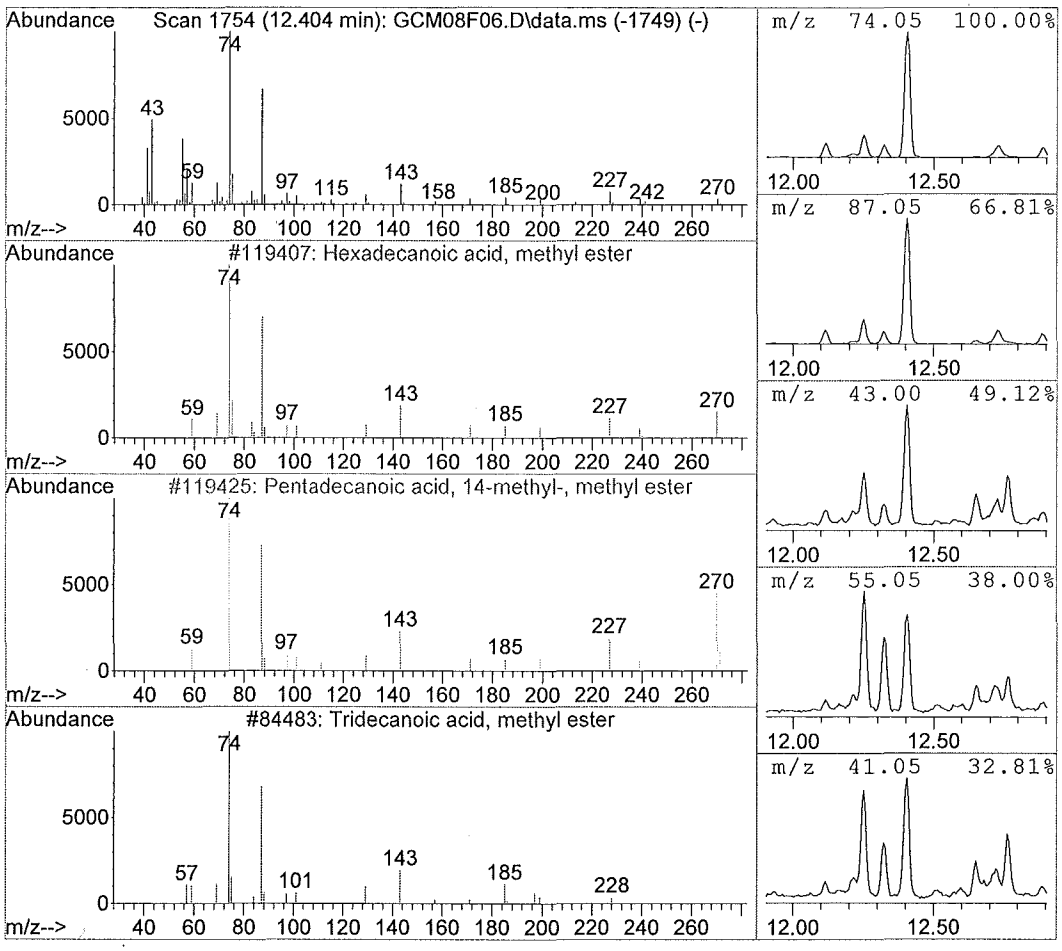
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D Vial: 15
Acq On : 07/06/2015 18:28 Operator: TJM
Sample : 1514293006 F9L63 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.40	5.46 ug/ml	957213	Phenanthrene-d10	3509366

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, methyl ester	119407	000112-39-0	97.00
2	Pentadecanoic acid, 14-methyl-, met	119425	005129-60-2	95.00
3	Tridecanoic acid, methyl ester	84483	001731-88-0	95.00
4	Methyl tetradecanoate	95860	000124-10-7	90.00
5	Methyl 11-methyl-dodecanoate	84473	1000336-45-1	90.00



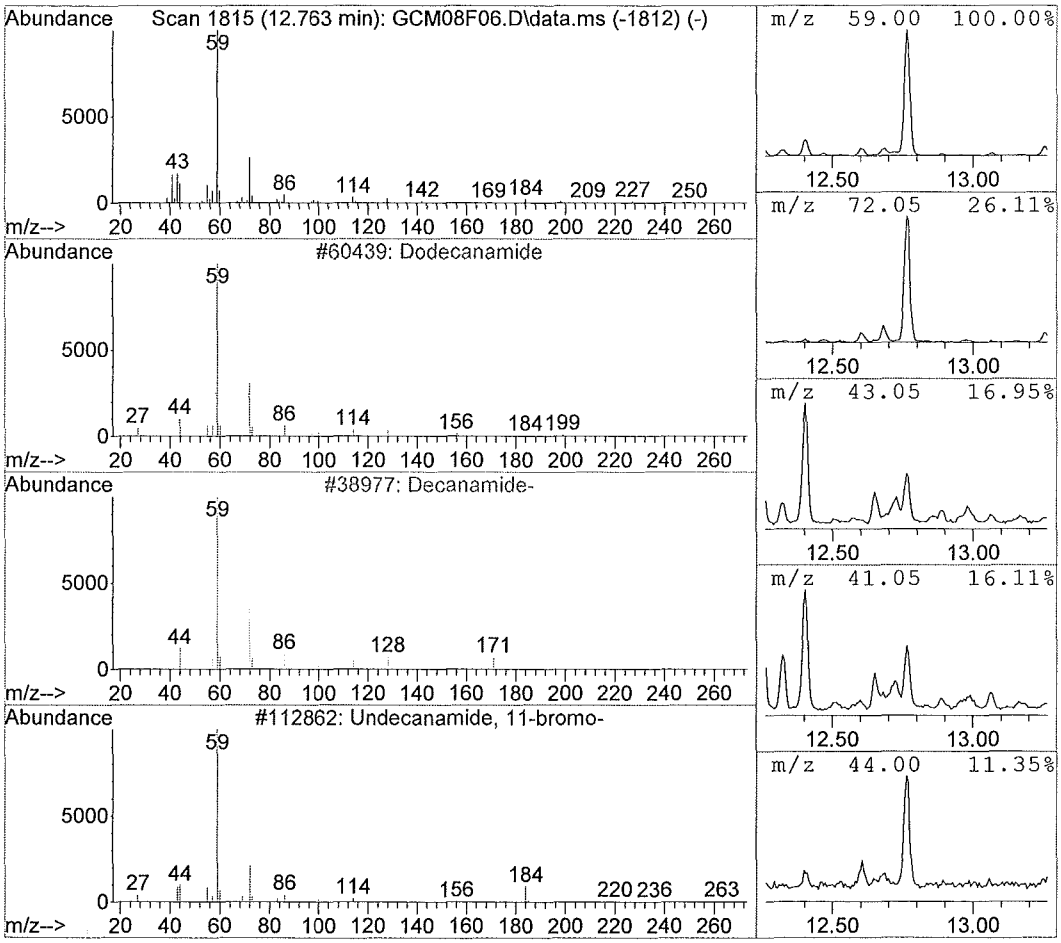
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D Vial: 15
Acq On : 07/06/2015 18:28 Operator: TJM
Sample : 1514293006 F9L63 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.76	2.63 ug/ml	461261	Phenanthrene-d10	3509366

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Decanamide-	38977	002319-29-1	83.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
4	Pentanamide	4064	000626-97-1	59.00
5	Tetradecanamide	83608	000638-58-4	58.00



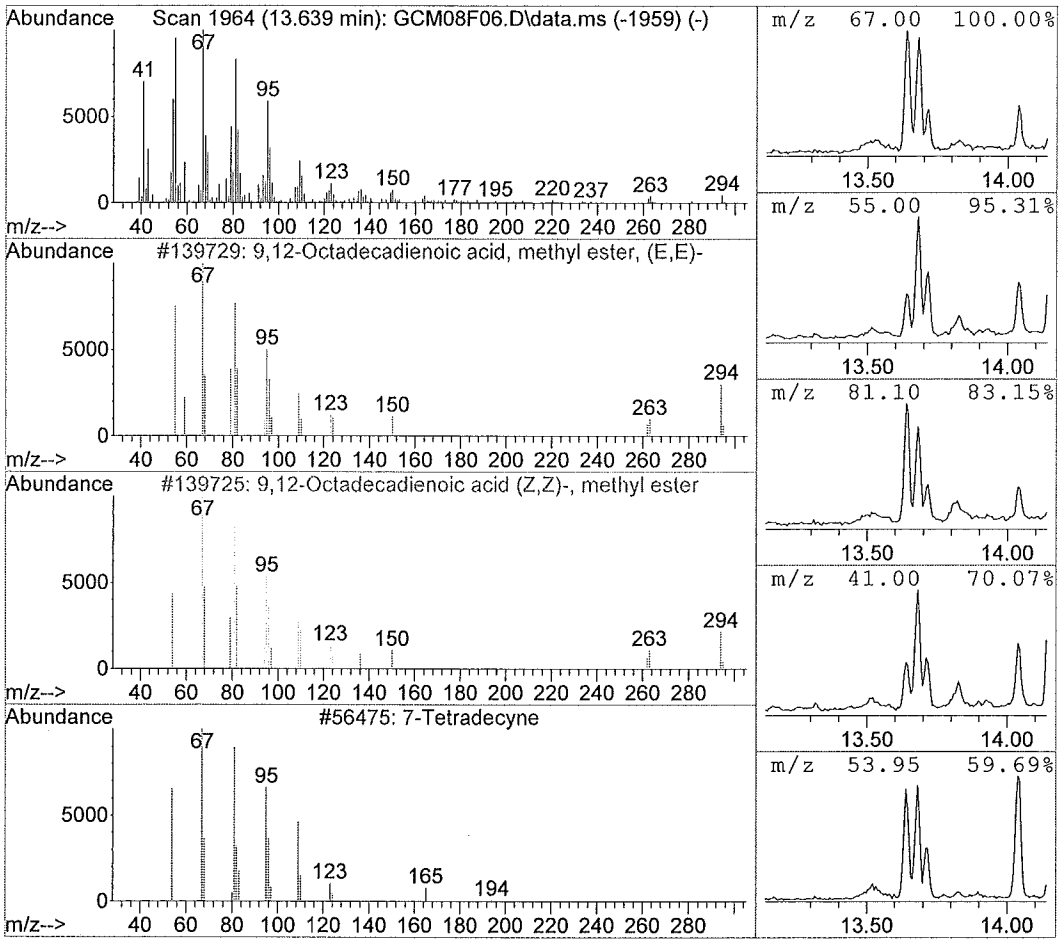
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D Vial: 15
Acq On : 07/06/2015 18:28 Operator: TJM
Sample : 1514293006 F9L63 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.64	2.65 ug/ml	488524	Chrysene-d12	3683227

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9,12-Octadecadienoic acid, methyl e	139729	002566-97-4	95.00
2	9,12-Octadecadienoic acid (Z,Z)-, m	139725	000112-63-0	95.00
3	7-Tetradecyne	56475	035216-11-6	93.00
4	6,9-Octadecadienoic acid, methyl es	139700	056599-55-4	93.00
5	9,12-Octadecadienoic acid (Z,Z)-	127648	000060-33-3	93.00



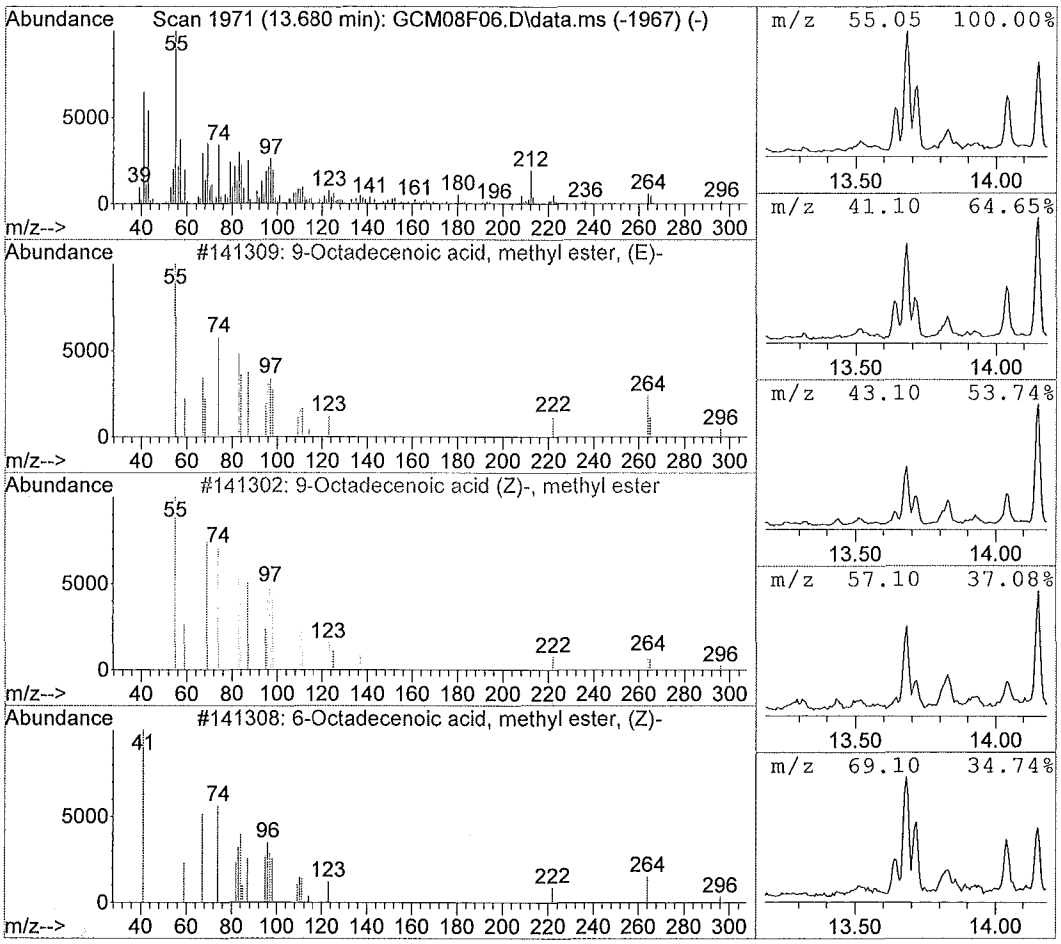
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D Vial: 15
Acq On : 07/06/2015 18:28 Operator: TJM
Sample : 1514293006 F9L63 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.68	6.54 ug/ml	1204323	Chrysene-d12	3683227

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenoic acid, methyl ester,	141309	001937-62-8	99.00
2	9-Octadecenoic acid (Z)-, methyl es	141302	000112-62-9	99.00
3	6-Octadecenoic acid, methyl ester,	141308	002777-58-4	98.00
4	10-Octadecenoic acid, methyl ester	141285	013481-95-3	98.00
5	trans-13-Octadecenoic acid, methyl	141314	1000333-61-3	98.00



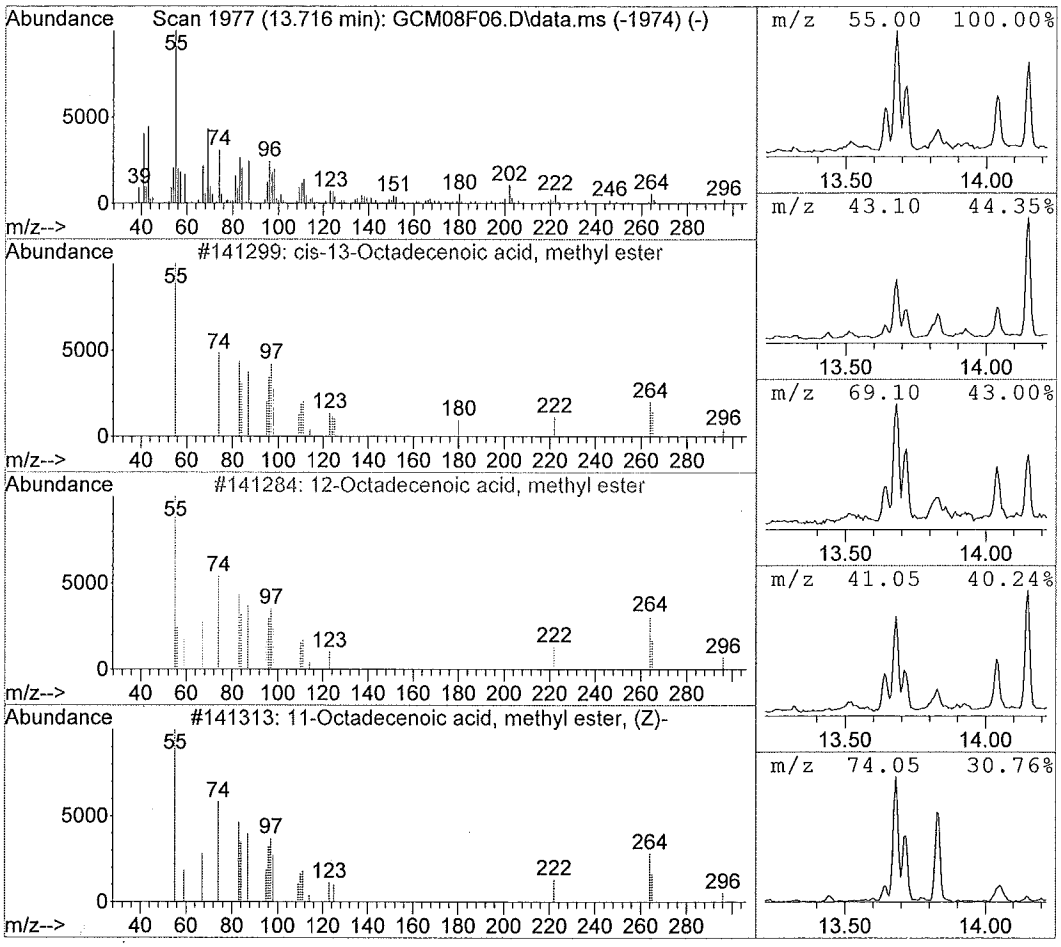
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D Vial: 15
Acq On : 07/06/2015 18:28 Operator: TJM
Sample : 1514293006 F9L63 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.72	2.94 ug/ml	540857	Chrysene-d12	3683227

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	cis-13-Octadecenoic acid, methyl es	141299	1000333-58-3	93.00
2	12-Octadecenoic acid, methyl ester	141284	056554-46-2	90.00
3	11-Octadecenoic acid, methyl ester,	141313	001937-63-9	89.00
4	trans-13-Octadecenoic acid, methyl	141314	1000333-61-3	89.00
5	10-Octadecenoic acid, methyl ester	141285	013481-95-3	86.00



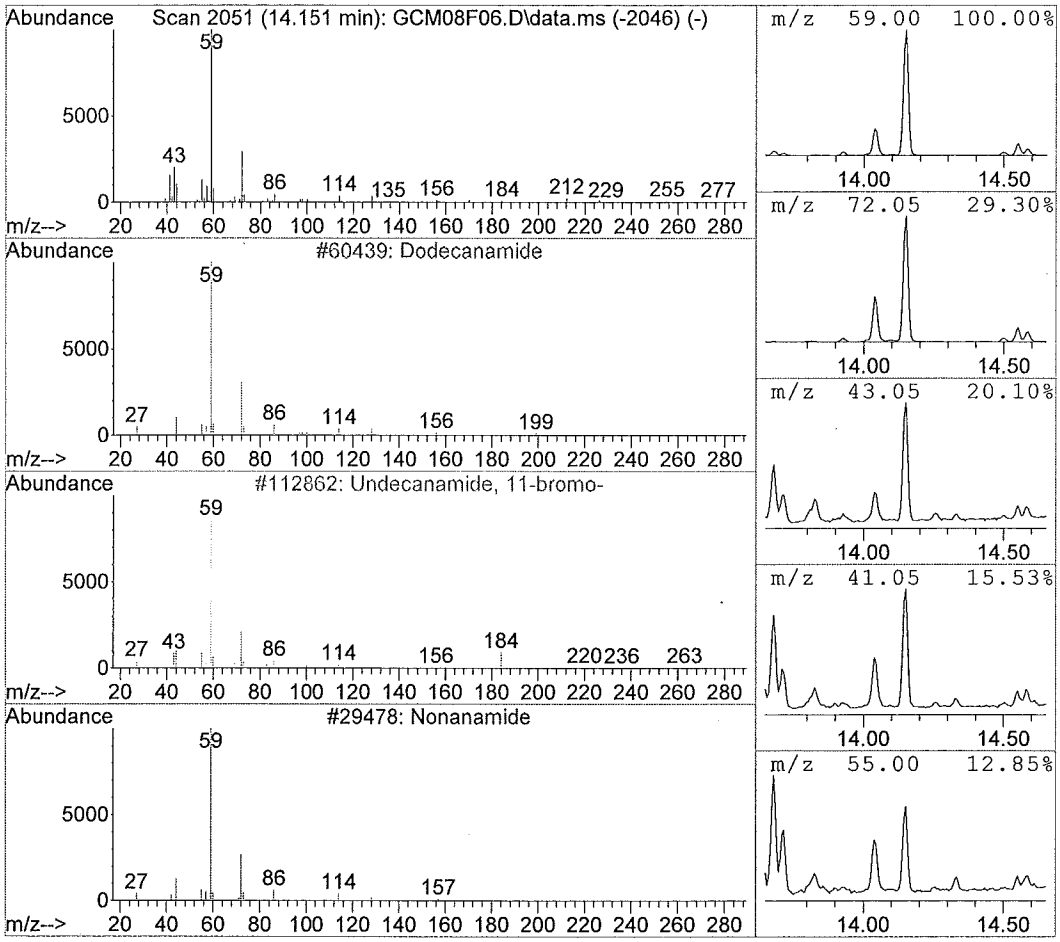
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D Vial: 15
Acq On : 07/06/2015 18:28 Operator: TJM
Sample : 1514293006 F9L63 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.15	8.43 ug/ml	1552088	Chrysene-d12	3683227

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	86.00
2	Undecanamide, 11-bromo-	112862	005875-26-3	78.00
3	Nonanamide	29478	001120-07-6	78.00
4	Decanamide-	38977	002319-29-1	64.00
5	Tetradecanamide	83609	000638-58-4	60.00



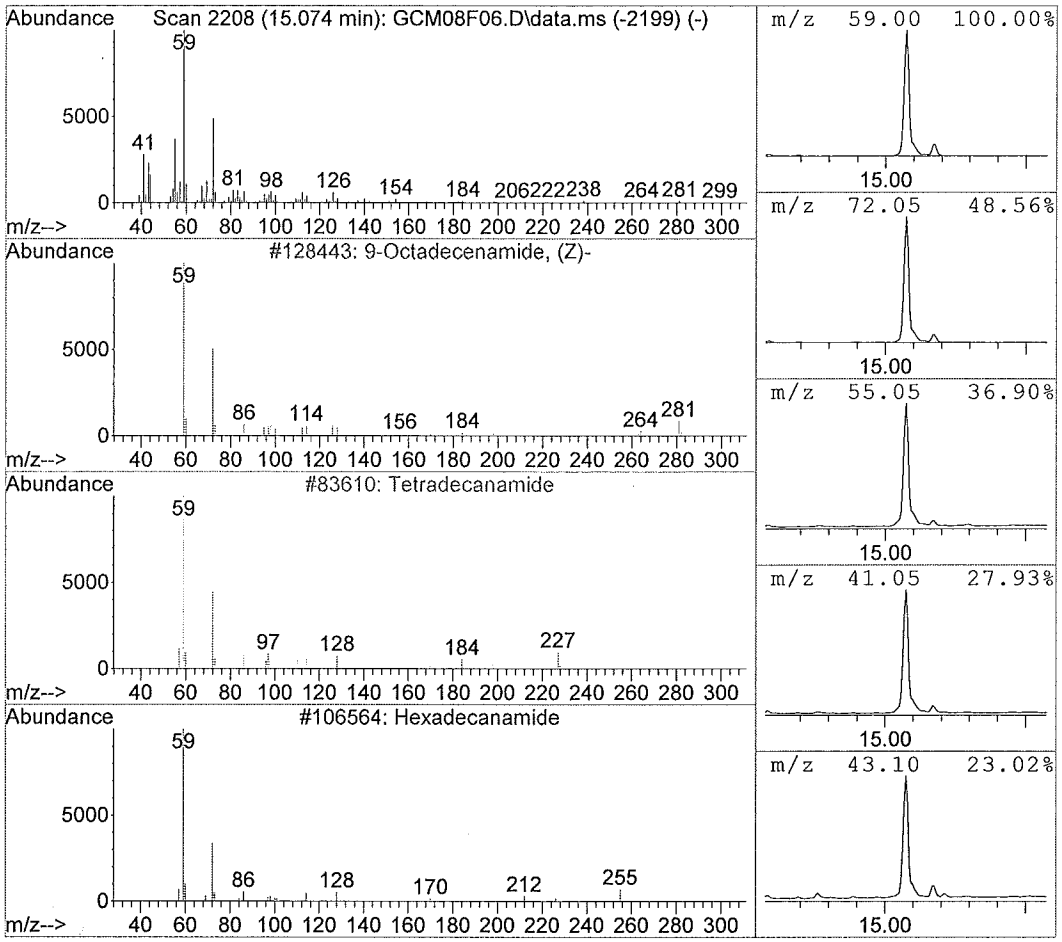
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D Vial: 15
Acq On : 07/06/2015 18:28 Operator: TJM
Sample : 1514293006 F9L63 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.07	55.71 ug/ml	10259961	Chrysene-d12	3683227

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	94.00
2	Tetradecanamide	83610	000638-58-4	87.00
3	Hexadecanamide	106564	000629-54-9	86.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00
5	7-Nonenamide	28131	090949-53-4	56.00



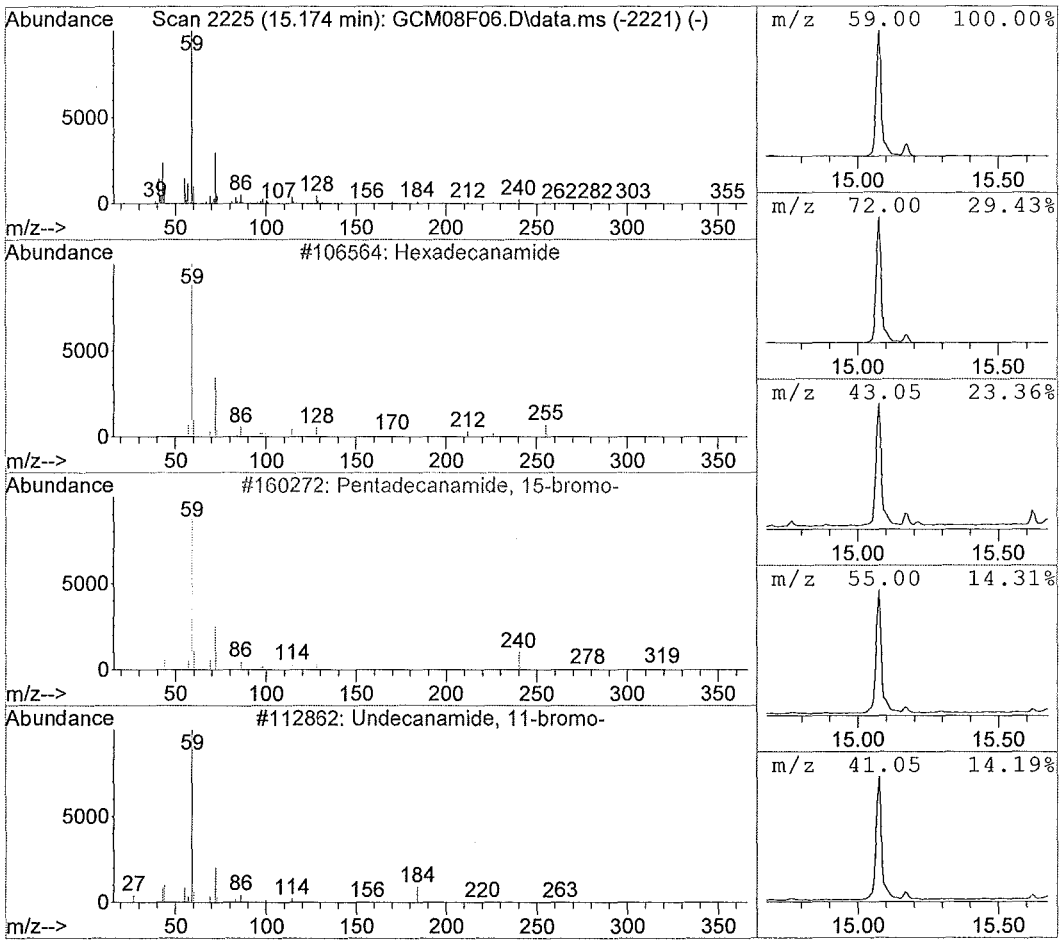
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D Vial: 15
Acq On : 07/06/2015 18:28 Operator: TJM
Sample : 1514293006 F9L63 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	2.80 ug/ml	515105	Chrysene-d12	3683227

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	93.00
2	Pentadecanamide, 15-bromo-	160272	1000163-86-1	83.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	78.00
4	Decanamide-	38977	002319-29-1	78.00
5	Dodecanamide	60439	001120-16-7	74.00



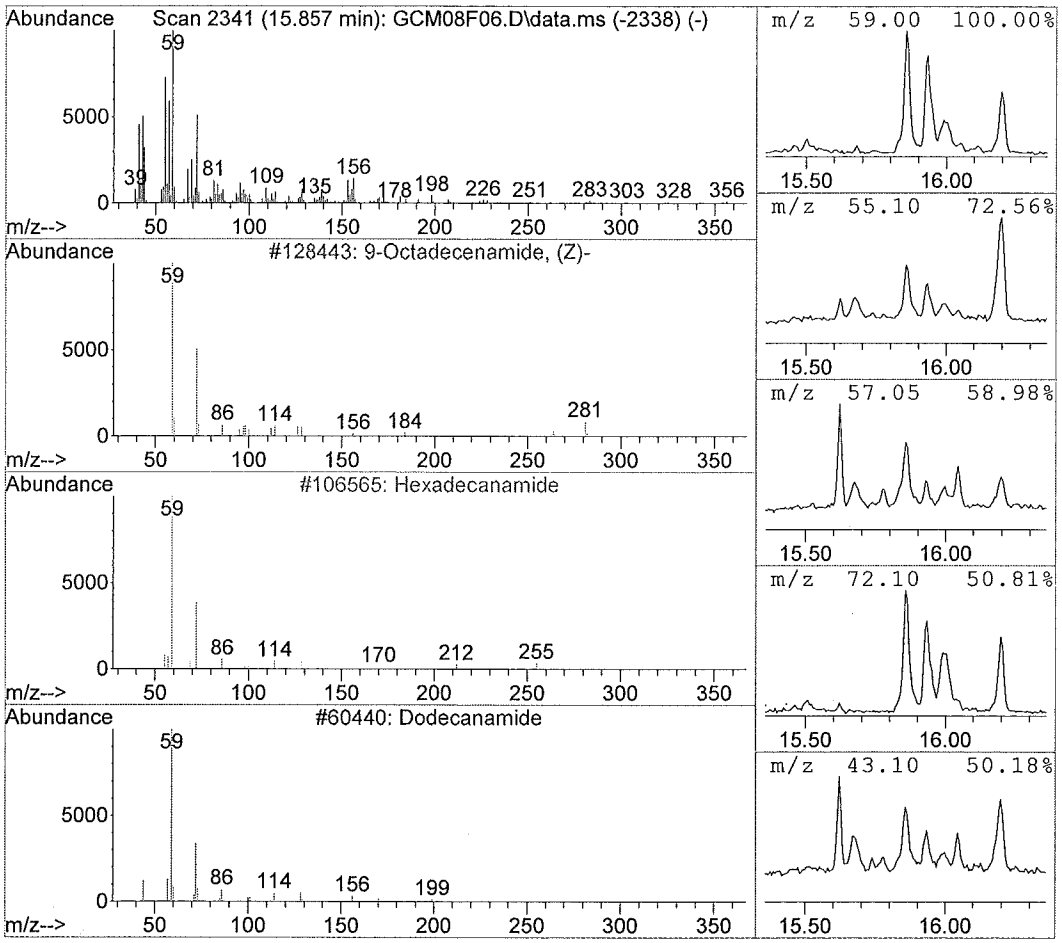
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D Vial: 15
Acq On : 07/06/2015 18:28 Operator: TJM
Sample : 1514293006 F9L63 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.86	3.53 ug/ml	649670	Chrysene-d12	3683227

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	70.00
2	Hexadecanamide	106565	000629-54-9	62.00
3	Dodecanamide	60440	001120-16-7	60.00
4	Octadecanamide	130204	000124-26-5	55.00
5	Tetradecanamide	83610	000638-58-4	53.00



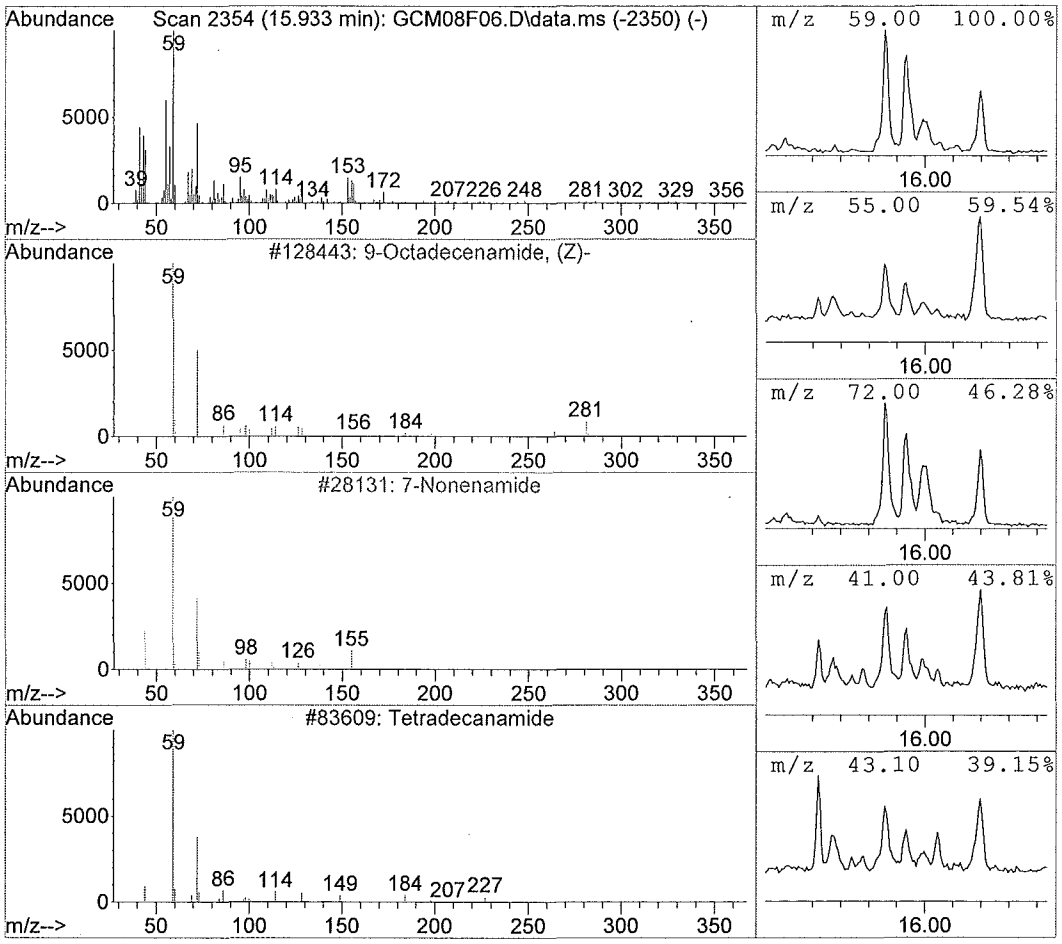
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D Vial: 15
Acq On : 07/06/2015 18:28 Operator: TJM
Sample : 1514293006 F9L63 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.93	2.23 ug/ml	410119	Chrysene-d12	3683227

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	76.00
2	7-Nonenamide	28131	090949-53-4	64.00
3	Tetradecanamide	83609	000638-58-4	59.00
4	Hexadecanamide	106565	000629-54-9	59.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	58.00



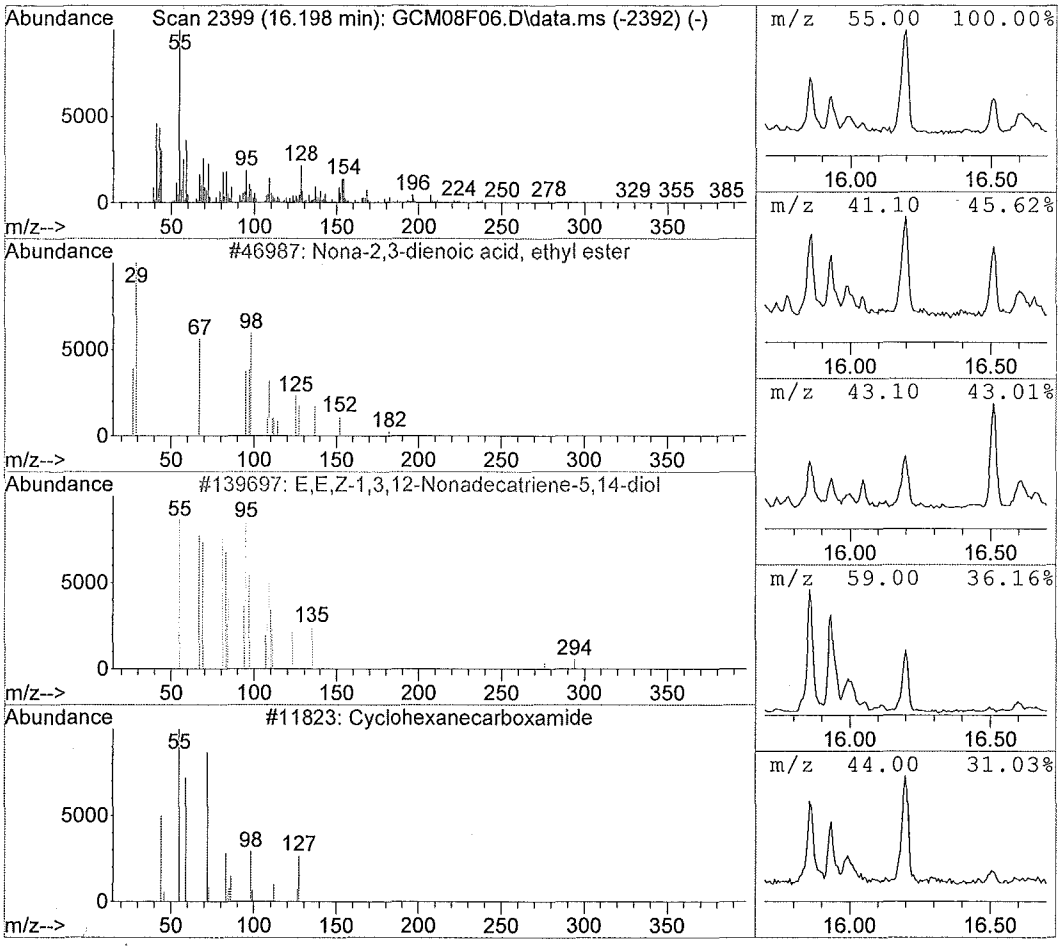
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D Vial: 15
Acq On : 07/06/2015 18:28 Operator: TJM
Sample : 1514293006 F9L63 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.20	5.50 ug/ml	1012097	Chrysene-d12	3683227

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nona-2,3-dienoic acid, ethyl ester	46987	1000187-19-2	14.00
2	E,E,Z-1,3,12-Nonadecatriene-5,14-di	139697	1000131-11-4	11.00
3	Cyclohexanecarboxamide	11823	001122-56-1	10.00
4	Cyclopropaneoctanoic acid, 2-[(2-pe	162994	056687-67-3	10.00
5	7,7-Dimethyl-2,3-dioxobicyclo[2.2.1	69071	040724-68-3	10.00



Library Search Compound Report

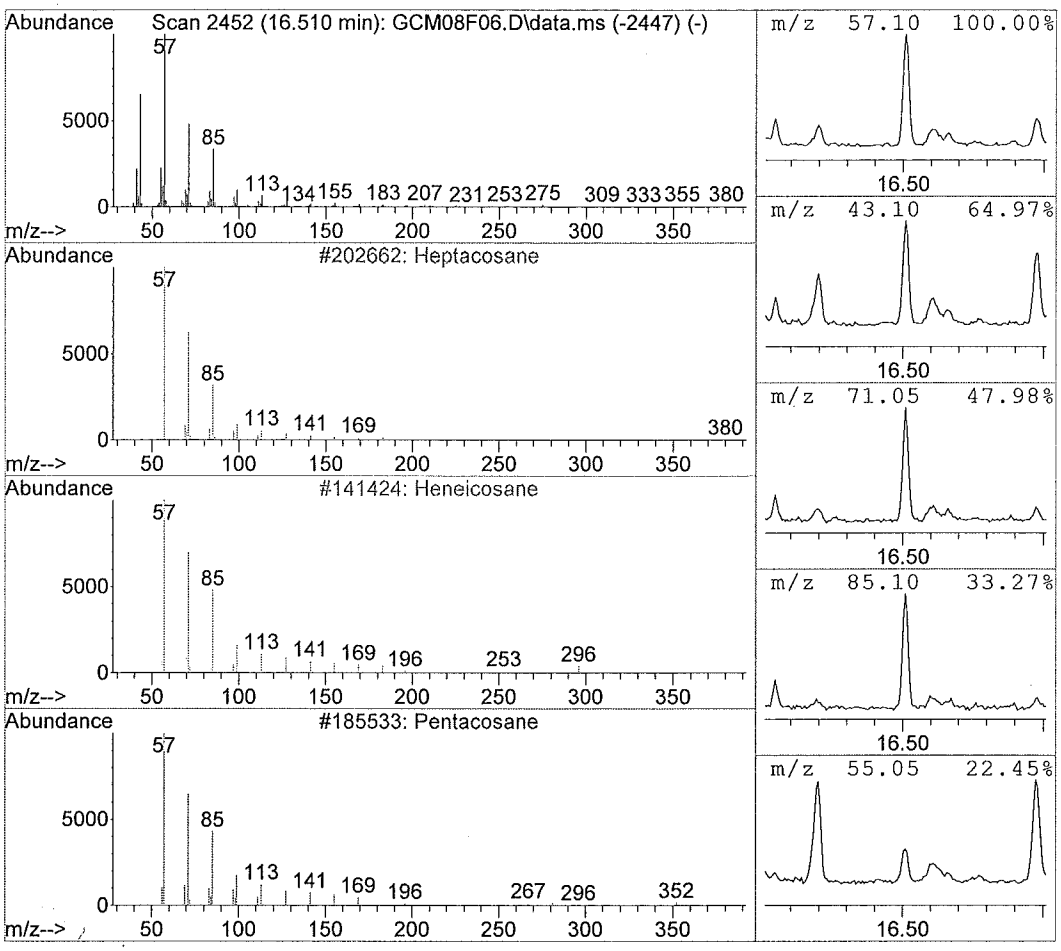
Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D Vial: 15
Acq On : 07/06/2015 18:28 Operator: TJM
Sample : 1514293006 F9L63 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.51	3.75 ug/ml	690530	Chrysene-d12	3683227

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	91.00
2	Heneicosane	141424	000629-94-7	91.00
3	Pentacosane	185533	000629-99-2	90.00
4	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	86.00
5	Tridecane, 1-iodo-	152416	035599-77-0	86.00

SCA



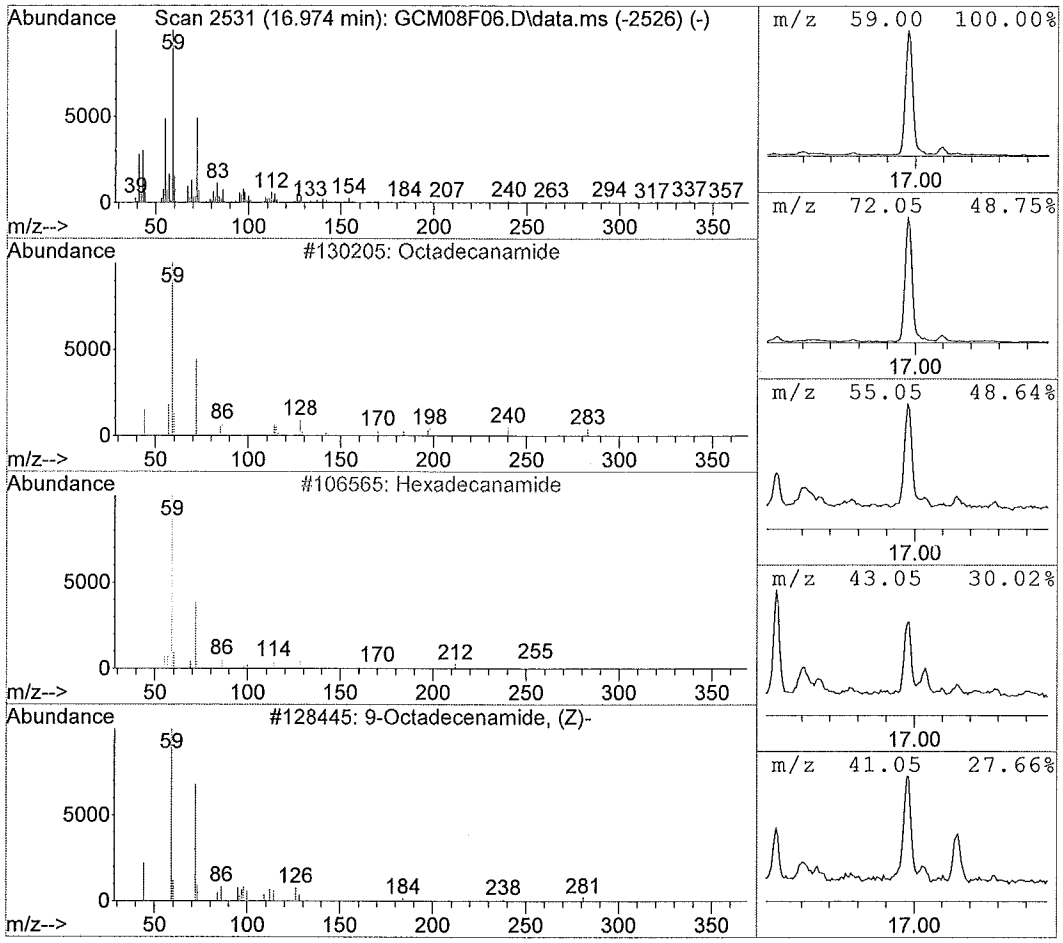
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D Vial: 15
Acq On : 07/06/2015 18:28 Operator: TJM
Sample : 1514293006 F9L63 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.97	8.58 ug/ml	1343611	Perylene-d12	3130858

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octadecanamide	130205	000124-26-5	87.00
2	Hexadecanamide	106565	000629-54-9	78.00
3	9-Octadecenamide, (Z)-	128445	000301-02-0	68.00
4	Nonanamide	29478	001120-07-6	53.00
5	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	50.00



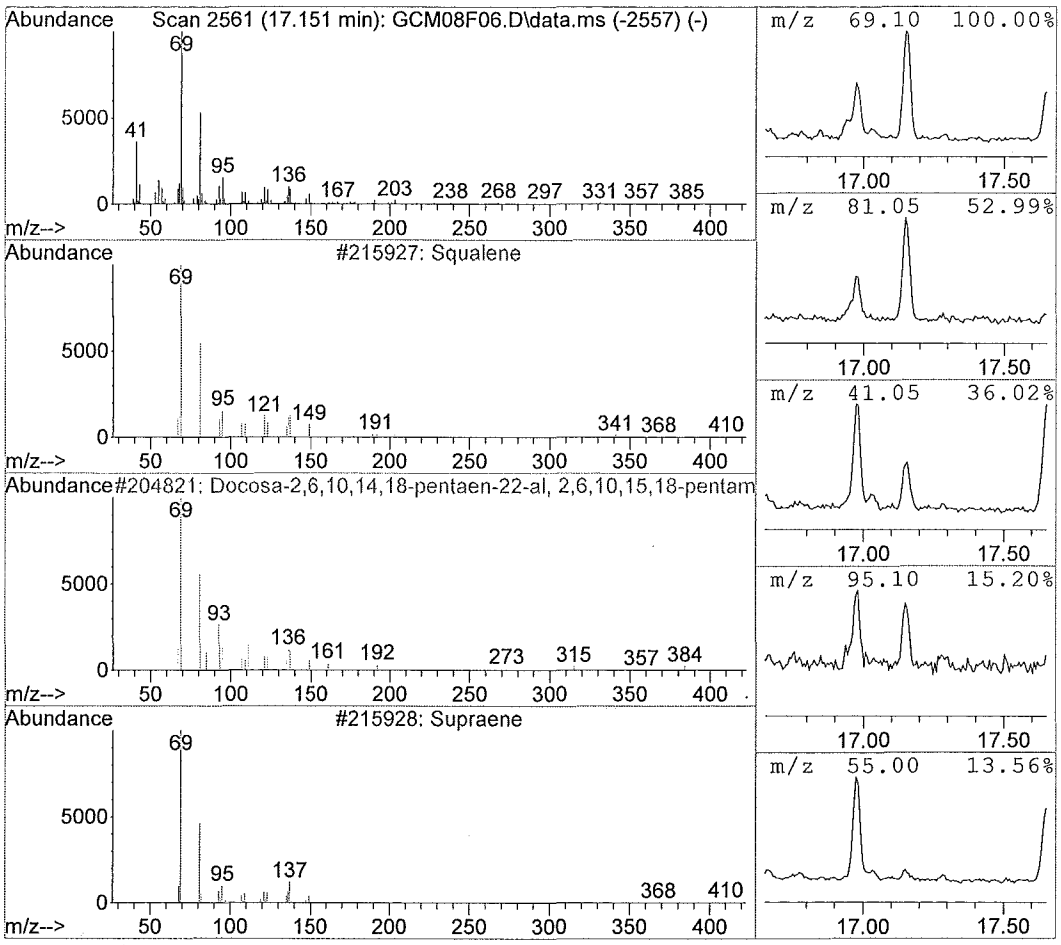
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D Vial: 15
Acq On : 07/06/2015 18:28 Operator: TJM
Sample : 1514293006 F9L63 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.15	2.72 ug/ml	425432	Perylene-d12	3130858

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Squalene	215927	000111-02-4	91.00
2	Docosa-2,6,10,14,18-pentaen-22-al,	204821	1000163-04-7	90.00
3	Supraene	215928	007683-64-9	90.00
4	1,6,10,14-Hexadecatetraen-3-ol, 3,7	136488	001113-21-9	59.00
5	1,6-Octadiene, 3,5-dimethyl-, trans	16961	074630-87-8	52.00



Library Search Compound Report

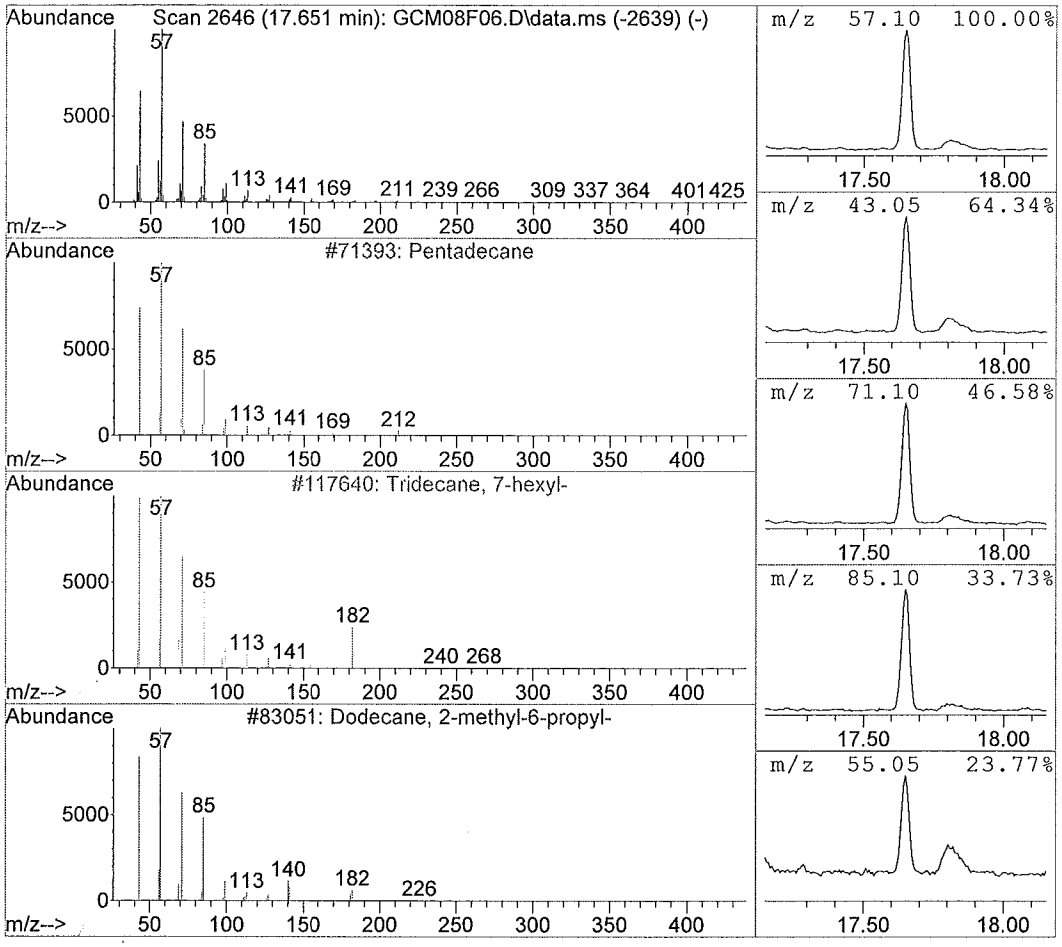
Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D Vial: 15
Acq On : 07/06/2015 18:28 Operator: TJM
Sample : 1514293006 F9L63 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.65	12.34 ug/ml	1932225	Perylene-d12	3130858

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecane	71393	000629-62-9	95.00
2	Tridecane, 7-hexyl-	117640	007225-66-3	94.00
3	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	91.00
4	Heptacosane	202662	000593-49-7	91.00
5	Hexacosane	194494	000630-01-3	91.00

SCA



: 00213

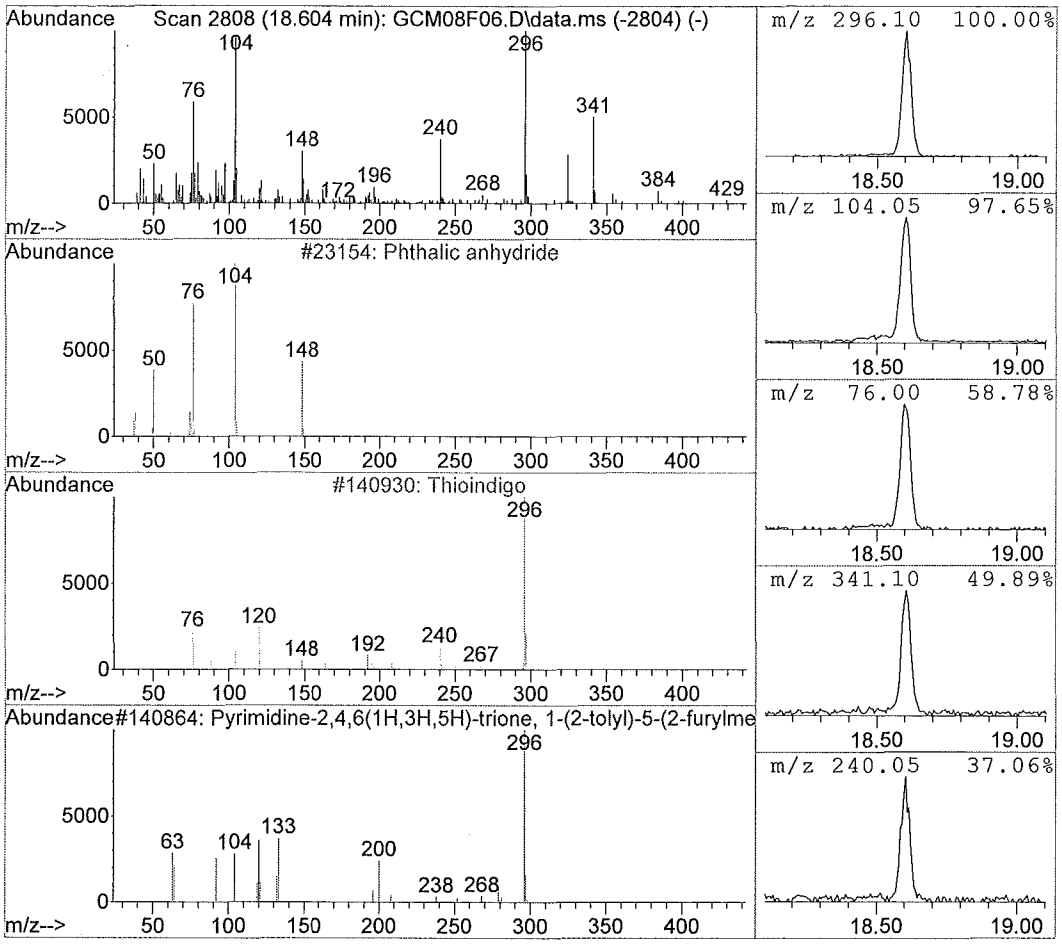
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D Vial: 15
Acq On : 07/06/2015 18:28 Operator: TJM
Sample : 1514293006 F9L63 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.60	3.00 ug/ml	469492	Perylene-d12	3130858

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23154	000085-44-9	27.00
2	Thioindigo	140930	000522-75-8	25.00
3	Pyrimidine-2,4,6(1H,3H,5H)-trione,	140864	331739-56-1	22.00
4	Benzenemethanamine, 2-methyl-	9643	000089-93-0	15.00
5	(2-Methylphenyl) methanol, n-butyl	44027	1000374-70-6	11.00



Library Search Compound Report

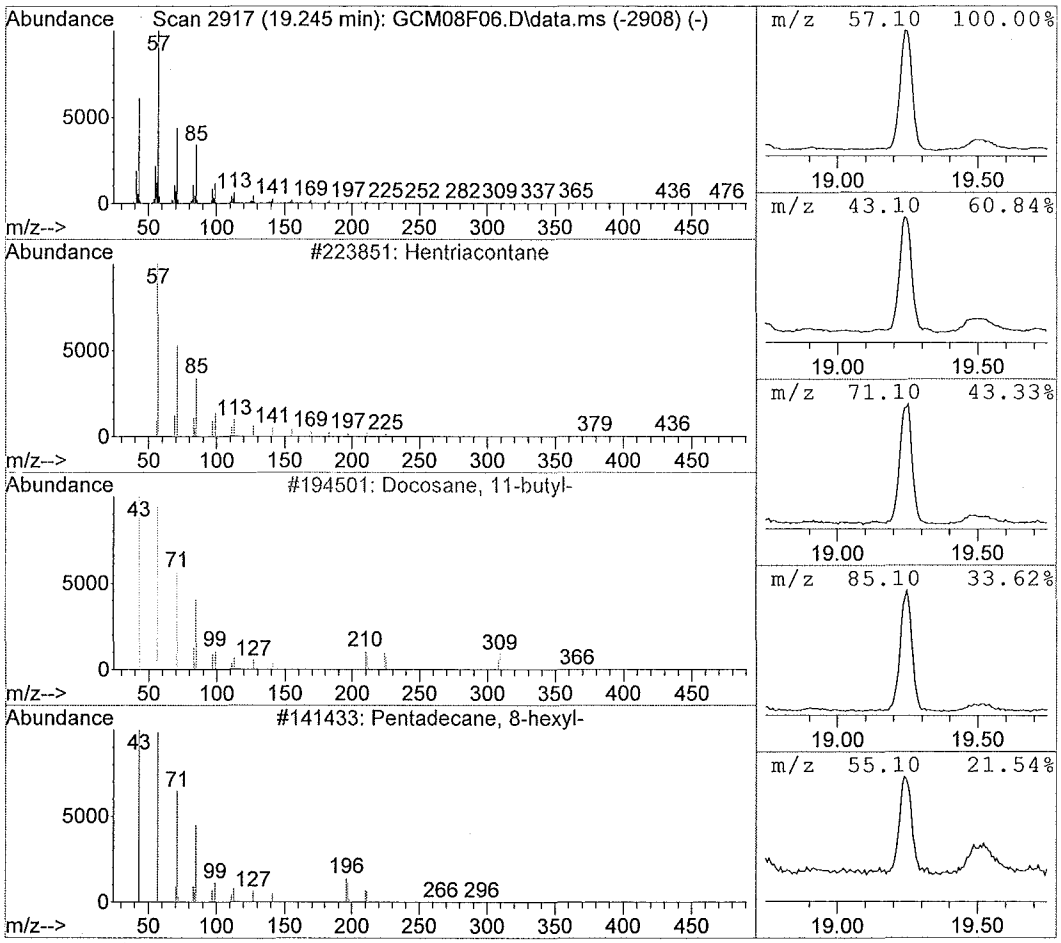
Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D Vial: 15
Acq On : 07/06/2015 18:28 Operator: TJM
Sample : 1514293006 F9L63 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.24	14.90 ug/ml	2333103	Perylene-d12	3130858

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hentriacontane	223851	000630-04-6	96.00
2	Docosane, 11-butyl-	194501	013475-76-8	95.00
3	Pentadecane, 8-hexyl-	141433	013475-75-7	93.00
4	Docosane, 9-butyl-	194496	055282-14-9	93.00
5	Nonadecane, 9-methyl-	129502	013287-24-6	93.00

SCA



Library Search Compound Report

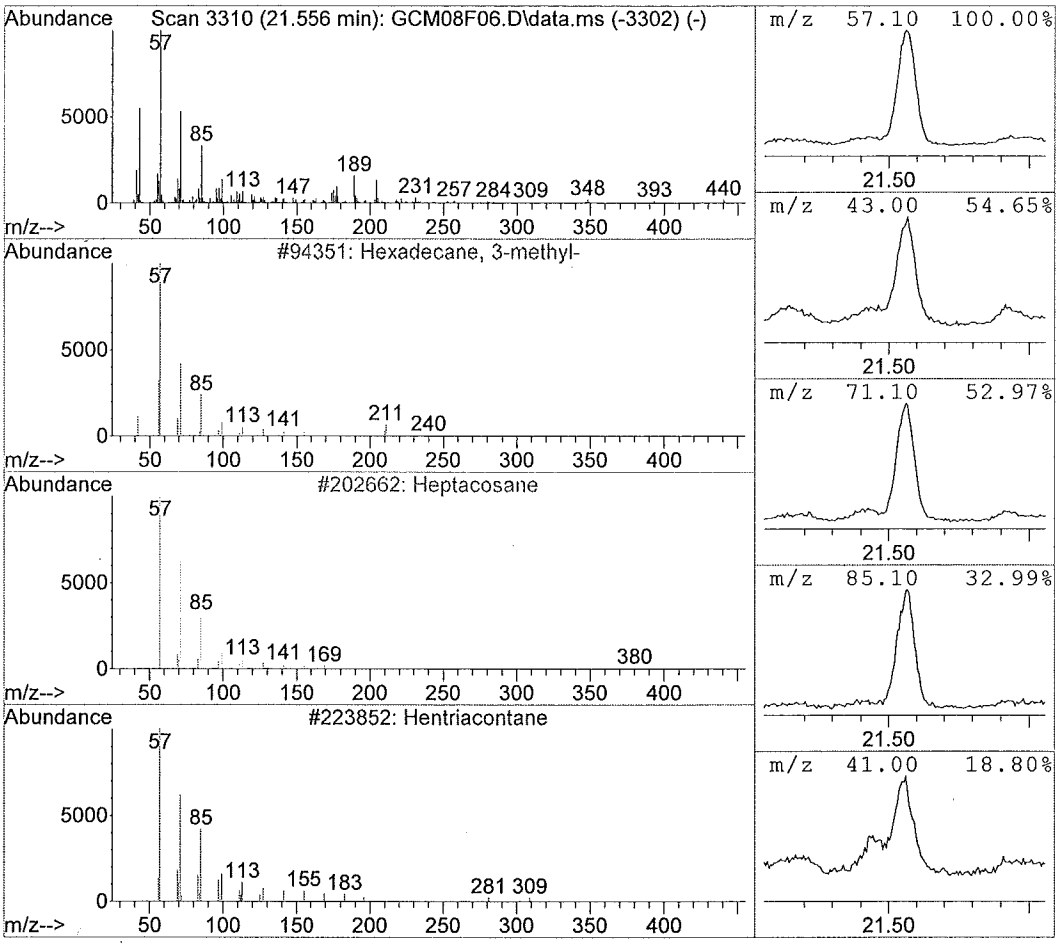
Data File : R:\G\2015\JUL15\06JUL15PM\GCM08F06.D Vial: 15
Acq On : 07/06/2015 18:28 Operator: TJM
Sample : 1514293006 F9L63 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.56	18.69 ug/ml	2926090	Perylene-d12	3130858

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane, 3-methyl-	94351	006418-43-5	70.00
2	Heptacosane	202662	000593-49-7	58.00
3	Hentriacontane	223852	000630-04-6	58.00
4	Octacosane	209566	000630-02-4	49.00
5	Tetratetracontane	241526	007098-22-8	47.00

BA



00216

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L64

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293007

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC11F07

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L64

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293007

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC11F07

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	16.	J
117-81-7	Bis(2-ethylhexyl)phthalate	32.	J
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9L64

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293007

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC11F07

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.58	4500	J
02		Unknown 2(5H)-Furanone, 5,5-dimethyl-	4.35	230	J
03	629-54-9	Hexadecanamide	14.25	170	JNB
04	301-02-0	9-Octadecenamide, (Z)-	15.17	1300	JNB
05		Unknown Tetradecanamide	15.96	81.	J
06		Unknown 2-Cyclohexyl-isoxazolidin-5-ol	16.31	150	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	280	J

[2] EPA-designated Registry Number.

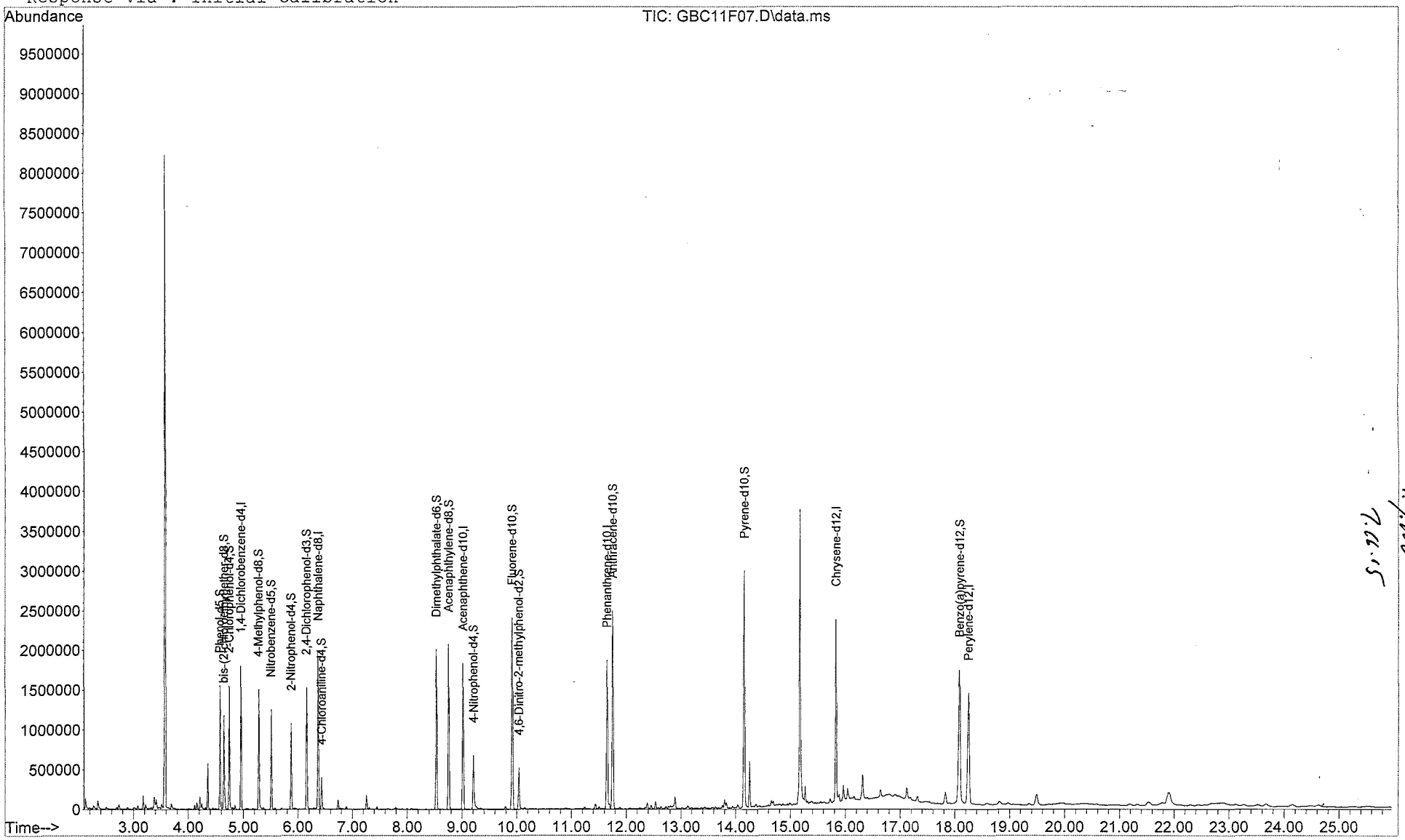
Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC11F07.D
Acq On : 06/02/2015 18:53
Sample : 1514293007 F9L64
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 10
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 14:39:57 2015 Results File: GSOM01D4.RES

Method : R:\G\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 : R:\G\2015\JUN15\02JUN15\GBC11F07.D Vial: 10
Acq On : 06/02/2015 18:53 Operator: DJC
Sample : 1514293007 F9L64 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:39:57 2015 Results File: GSOM01D4.RES

Method : R:\G\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	314813	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1170762	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	661575	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1094845	20.00 ug/ml
73) Chrysene-d12	15.83	240	1058302	20.00 ug/ml
81) Perylene-d12	18.25	264	1017847	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.58	99	548324	24.977ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	253406	18.852ug/mL
7) 2-Chlorophenol-d4	4.75	132	516651	23.970ug/ml
13) 4-Methylphenol-d8	5.28	113	374763	21.927ug/mL
17) Nitrobenzene-d5	5.51	128	227462	23.157ug/ml
21) 2-Nitrophenol-d4	5.87	143	281668	25.731ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	421057	26.257ug/mL
28) 4-Chloroaniline-d4	6.43	131	169000	9.715ug/mL
42) Dimethylphthalate-d6	8.53	166	1235262	30.702ug/mL
45) Acenaphthylene-d8	8.76	160	1362238	25.370ug/mL
50) 4-Nitrophenol-d4	9.21	143	228528	26.673ug/mL
57) Fluorene-d10	9.92	176	992370	28.397ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	127360	17.710ug/mL
69) Anthracene-d10	11.75	188	1566078	28.277ug/mL
75) Pyrene-d10	14.16	212	1401852	29.137ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1264853	27.396ug/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)

: 00221

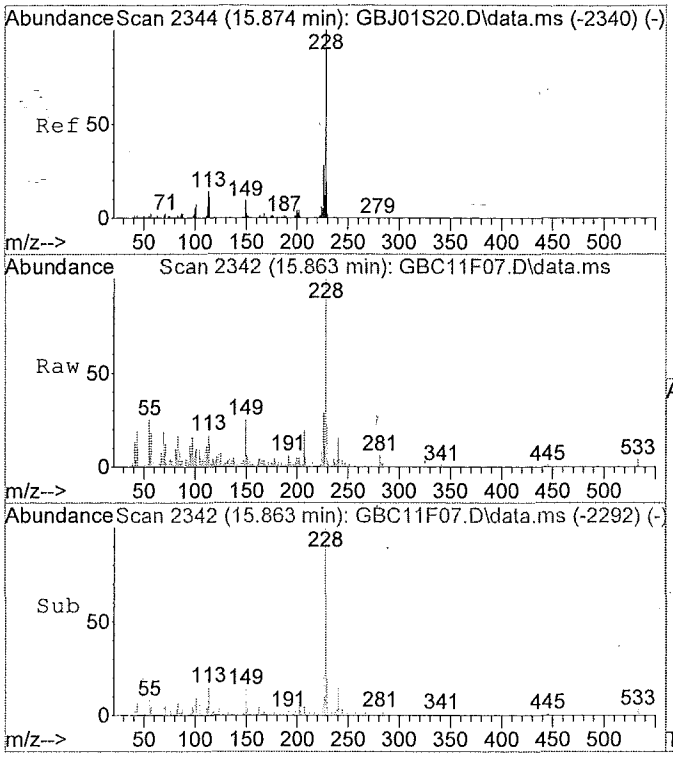
Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC11F07.D Vial: 10
Acq On : 06/02/2015 18:53 Operator: DJC
Sample : 1514293007 F9L64 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:39:57 2015 Results File: GSOM01D4.RES

Method : R:\G\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	15.86	228	23800	0.436ug/ml	95
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	42848	0.839ug/ml	88
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	

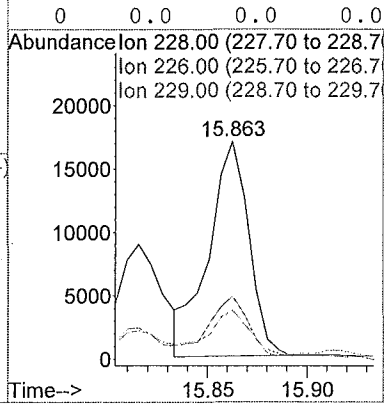
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

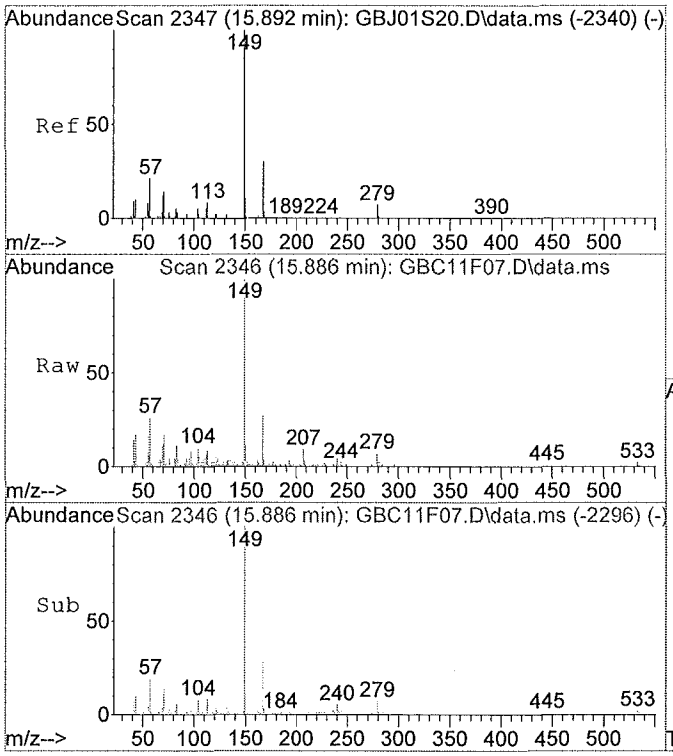


#79
Chrysene
Concen: 0.44 ug/ml
RT: 15.86 min Scan# 2342
Delta R.T. -0.01 min
Lab File: GBC11F07.D
Acq: 06/02/2015 18:53

Tgt Ion:228 Resp: 23800

Ion	Ratio	Lower	Upper
228	100		
226	27.7	20.1	37.3
229	23.4	13.7	25.5
0	0.0	0.0	0.0

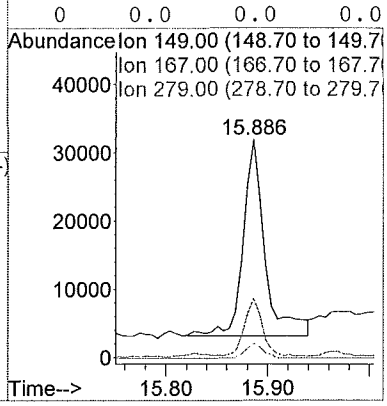




#80
Bis-(2-ethylhexyl)phthalate
Concen: 0.84 ug/ml
RT: 15.89 min Scan# 2346
Delta R.T. -0.01 min
Lab File: GBC11F07.D
Acq: 06/02/2015 18:53

Tgt Ion:149 Resp: 42848

Ion	Ratio	Lower	Upper
149	100		
167	23.9	22.0	40.8
279	5.5	5.0	9.2
0	0.0	0.0	0.0



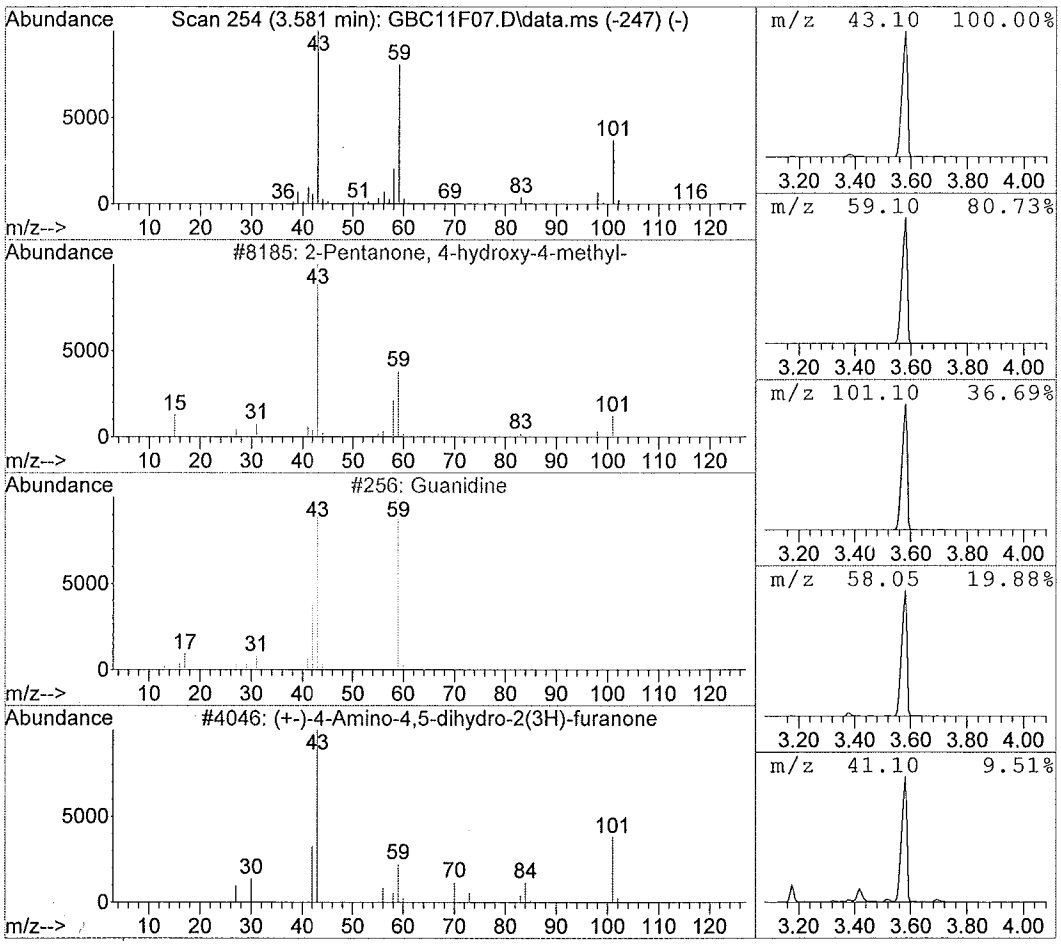
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC11F07.D Vial: 10
Acq On : 06/02/2015 18:53 Operator: DJC
Sample : 1514293007 F9L64 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	118.78 ug/ml	10456719	1,4-Dichlorobenzene-d4	1760677

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	50.00
2	Guanidine	256	000113-00-8	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



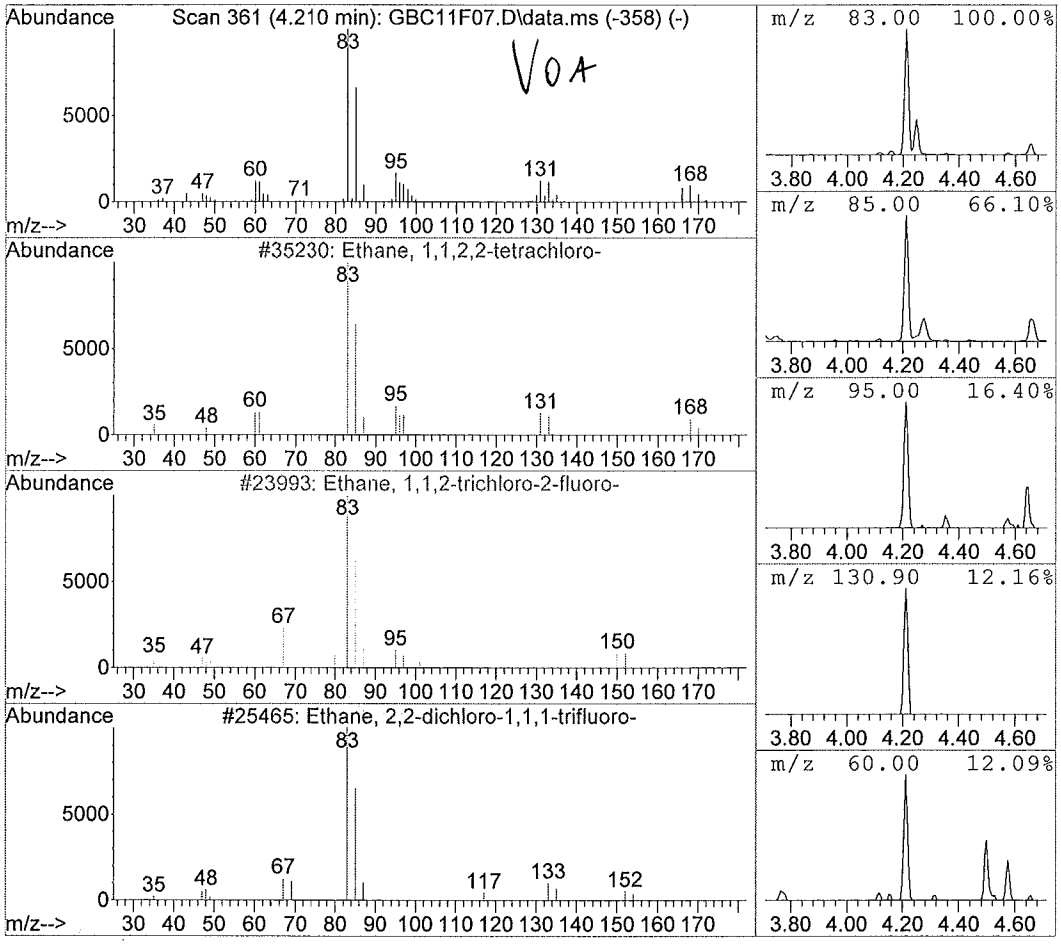
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC11F07.D Vial: 10
Acq On : 06/02/2015 18:53 Operator: DJC
Sample : 1514293007 F9L64 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.21	2.00 ug/ml	176272	1,4-Dichlorobenzene-d4	1760677

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	35230	000079-34-5	98.00
2	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	45.00
3	Ethane, 2,2-dichloro-1,1,1-trifluor	25465	000306-83-2	40.00
4	Methane, dichloronitro-	13083	007119-89-3	38.00
5	Ethane, 1,2,2-trichloro-1,1-difluor	36913	000354-21-2	38.00



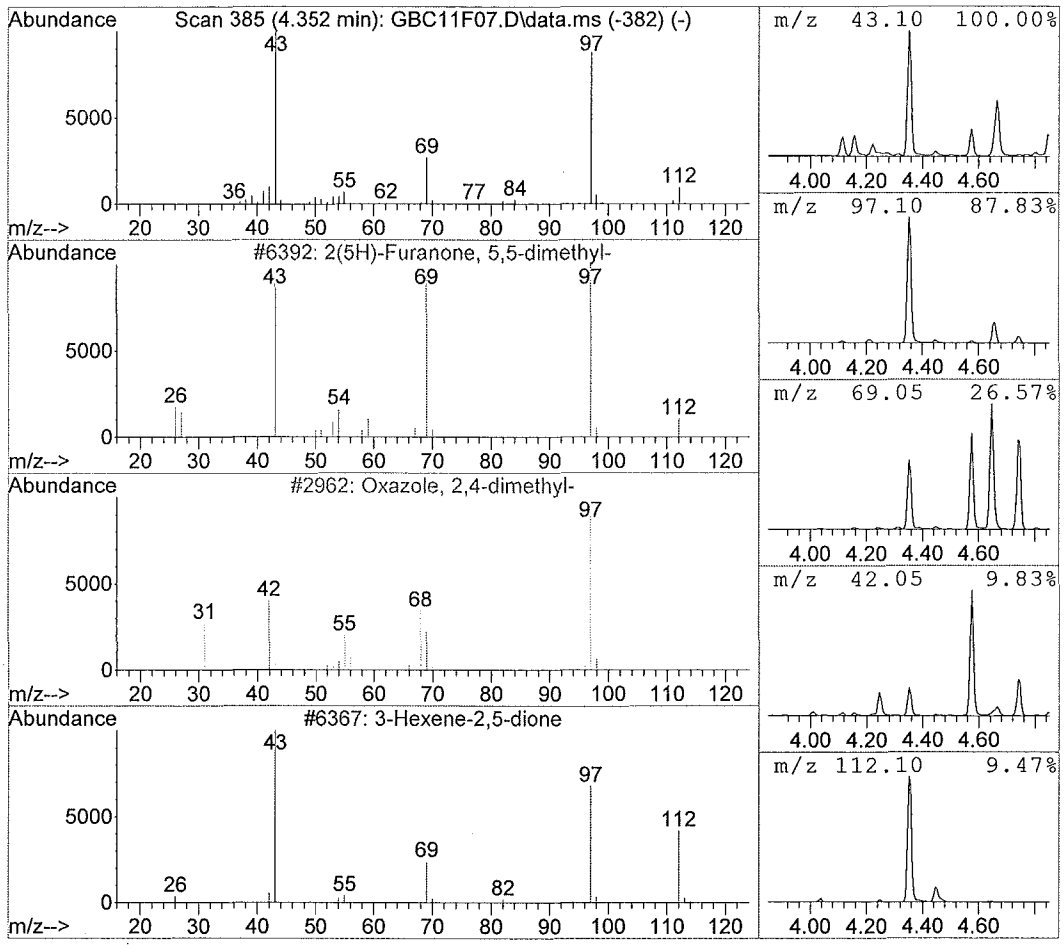
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC11F07.D Vial: 10
Acq On : 06/02/2015 18:53 Operator: DJC
Sample : 1514293007 F9L64 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	6.07 ug/ml	534216	1,4-Dichlorobenzene-d4	1760677

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	64.00
2	Oxazole, 2,4-dimethyl-	2962	007208-05-1	59.00
3	3-Hexene-2,5-dione	6367	004436-75-3	38.00
4	3-Hexen-2-one, 5-methyl-	6518	005166-53-0	9.00
5	Cyclohexane, 1,3-dimethyl-, cis-	6808	000638-04-0	9.00



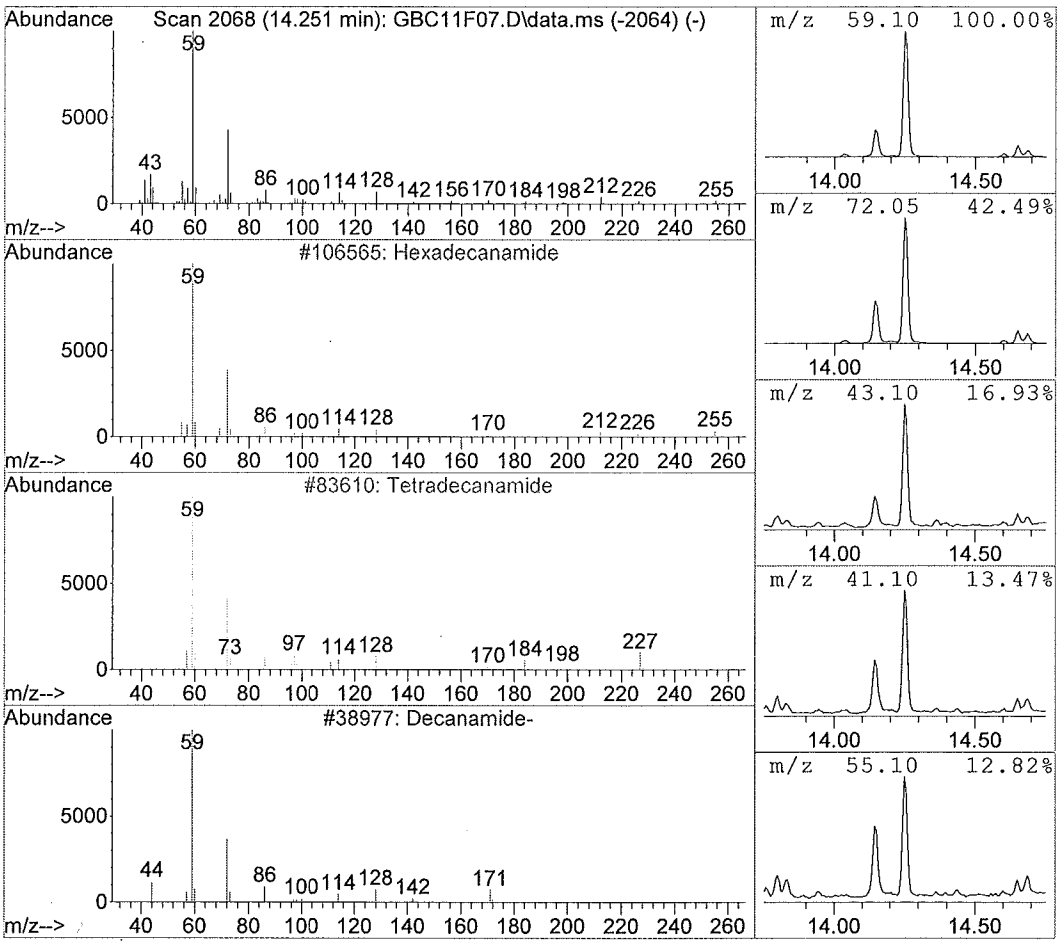
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC11F07.D Vial: 10
Acq On : 06/02/2015 18:53 Operator: DJC
Sample : 1514293007 F9L64 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	4.57 ug/ml	689412	Chrysene-d12	3017749

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	96.00
2	Tetradecanamide	83610	000638-58-4	90.00
3	Decanamide-	38977	002319-29-1	83.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	72.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00



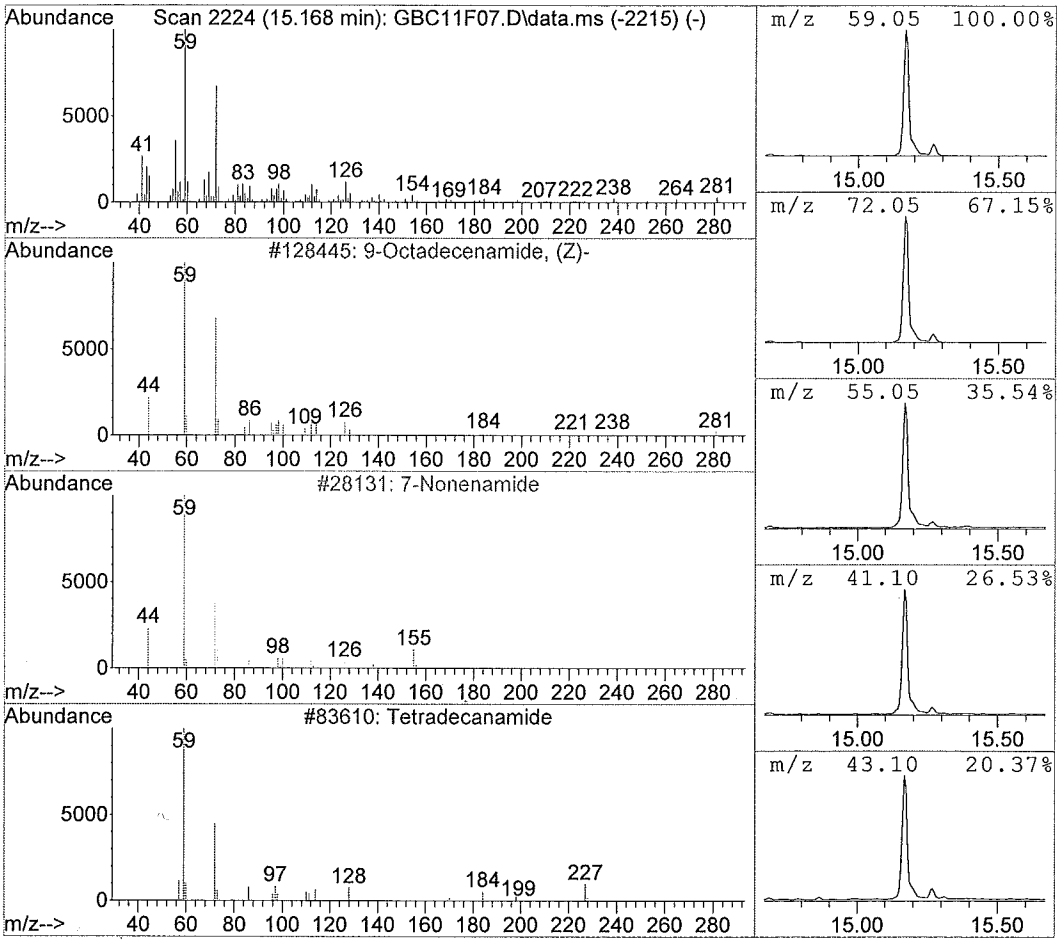
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC11F07.D Vial: 10
Acq On : 06/02/2015 18:53 Operator: DJC
Sample : 1514293007 F9L64 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	34.11 ug/ml	5146200	Chrysene-d12	3017749

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	7-Nonenamide	28131	090949-53-4	72.00
3	Tetradecanamide	83610	000638-58-4	58.00
4	Octanamide	20317	000629-01-6	53.00
5	Nonanamide	29478	001120-07-6	50.00



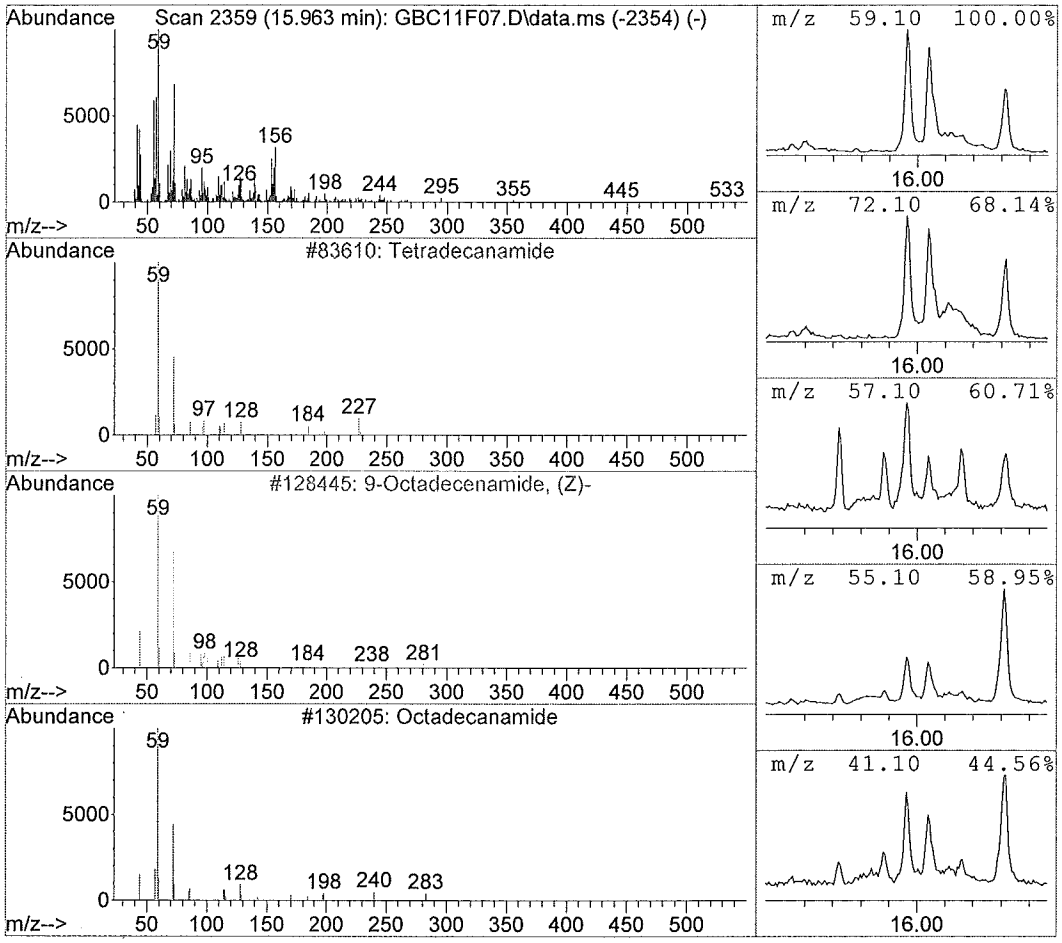
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC11F07.D Vial: 10
Acq On : 06/02/2015 18:53 Operator: DJC
Sample : 1514293007 F9L64 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.96	2.15 ug/ml	323899	Chrysene-d12	3017749

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83610	000638-58-4	60.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	53.00
3	Octadecanamide	130205	000124-26-5	47.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	43.00
5	3-Cyclohexylpropionamide	28138	004361-29-9	38.00



: 00229

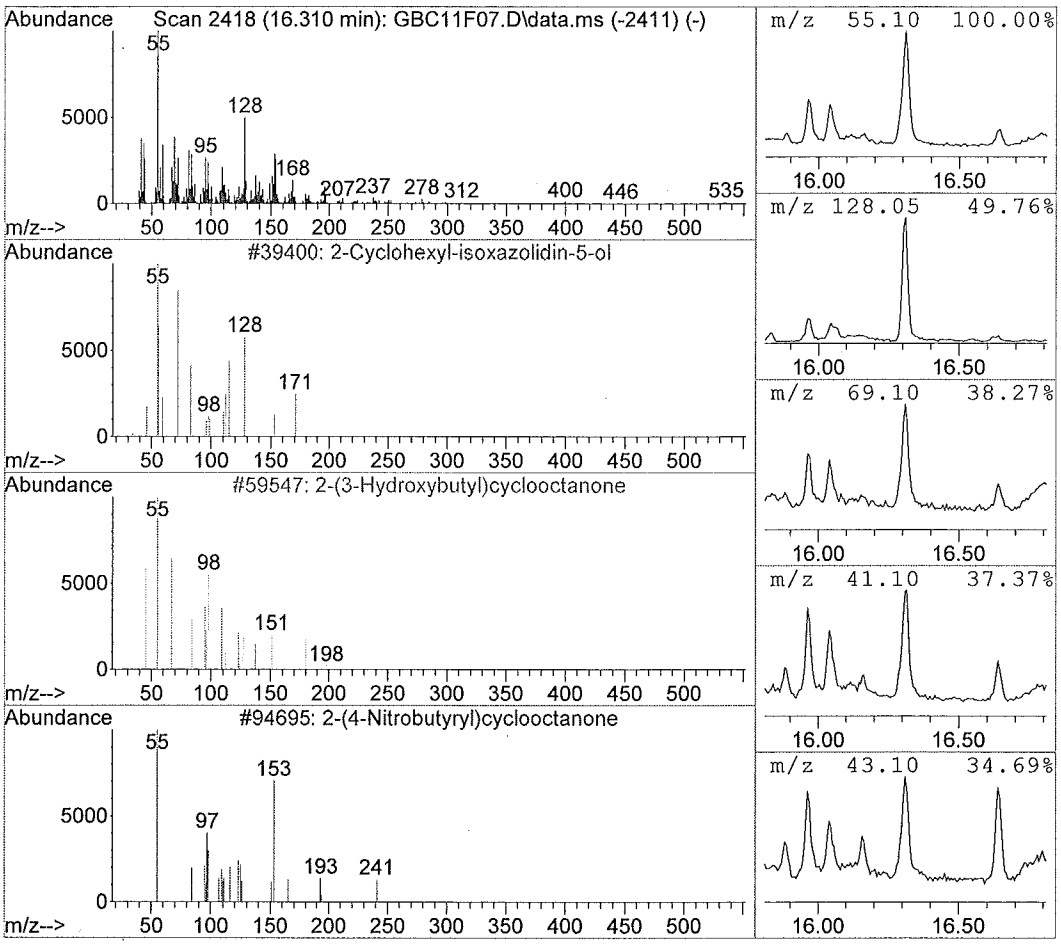
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC11F07.D Vial: 10
Acq On : 06/02/2015 18:53 Operator: DJC
Sample : 1514293007 F9L64 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.31	4.02 ug/ml	606540	Chrysene-d12	3017749

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Cyclohexyl-isoxazolidin-5-ol	39400	052400-49-4	12.00
2	2-(3-Hydroxybutyl)cyclooctanone	59547	110288-21-6	10.00
3	2-(4-Nitrobutyryl)cyclooctanone	94695	079630-93-6	10.00
4	1-Decene, 5-methyl-	27041	054244-79-0	10.00
5	Pentanoic acid, 10-undecenyl ester	105728	1000159-93-4	10.00



Library Search Compound Report

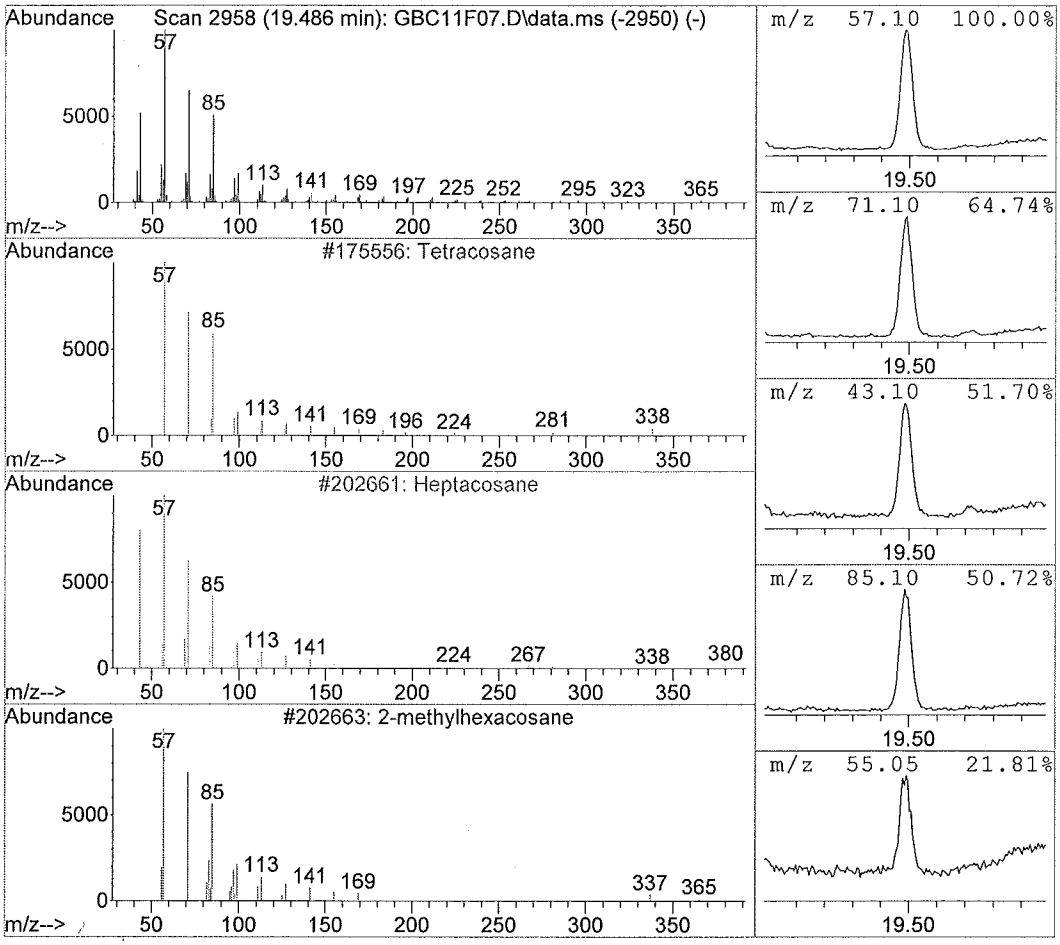
Data File : R:\G\2015\JUN15\02JUN15\GBC11F07.D Vial: 10
Acq On : 06/02/2015 18:53 Operator: DJC
Sample : 1514293007 F9L64 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.49	2.57 ug/ml	390006	Perylene-d12	3032536

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetracosane	175556	000646-31-1	91.00
2	Heptacosane	202661	000593-49-7	91.00
3	2-methylhexacosane	202663	1000376-72-7	90.00
4	Heneicosane	141424	000629-94-7	90.00
5	2-methyloctacosane	215181	1000376-72-8	90.00

SCA



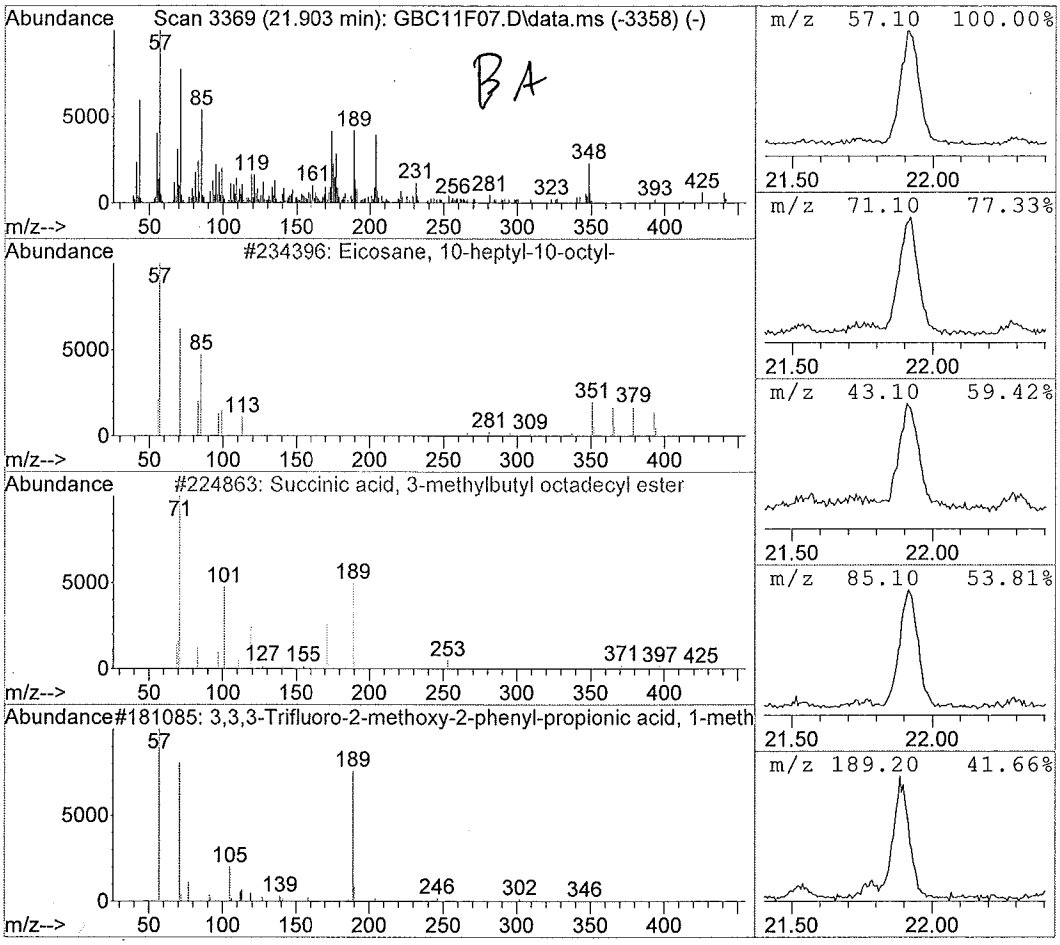
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC11F07.D Vial: 10
Acq On : 06/02/2015 18:53 Operator: DJC
Sample : 1514293007 F9L64 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	4.91 ug/ml	744886	Perylene-d12	3032536

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane, 10-heptyl-10-octyl-	234396	055470-98-9	30.00
2	Succinic acid, 3-methylbutyl octade	224863	1000349-25-8	27.00
3	3,3,3-Trifluoro-2-methoxy-2-phenyl-	181085	040121-44-6	27.00
4	Succinic acid, eicosyl 3-methylbuty	230724	1000349-26-0	27.00
5	O-(Carboxymethyl)hydroxylamine, N-d	41337	1000375-78-2	16.00



00232

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: F9L65

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293008

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC12F08

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: F9L65

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293008
Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC12F08
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015
GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	26.	J
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO:

F9L65

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293008

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC12F08

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Pentanone, 4-hydroxy-	3.38	200	J
02		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.59	6900	J
03		Unknown 2-Nonanone	4.16	96.	J
04		Unknown 3-Hexene-2,5-dione	4.36	390	JB
05		Unknown 1-Naphthalenemethanamine, .alpha.-methyl	7.26	100	J
06	629-54-9	Hexadecanamide	14.26	180	JNB
07	301-02-0	9-Octadecenamide, (Z)-	15.17	1400	JNB
08	301-02-0	9-Octadecenamide, (Z)-	15.96	88.	JNB
09		Unknown Cyclododecanone, 2-methyl-	16.32	140	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	470	J

[2] EPA-designated Registry Number.

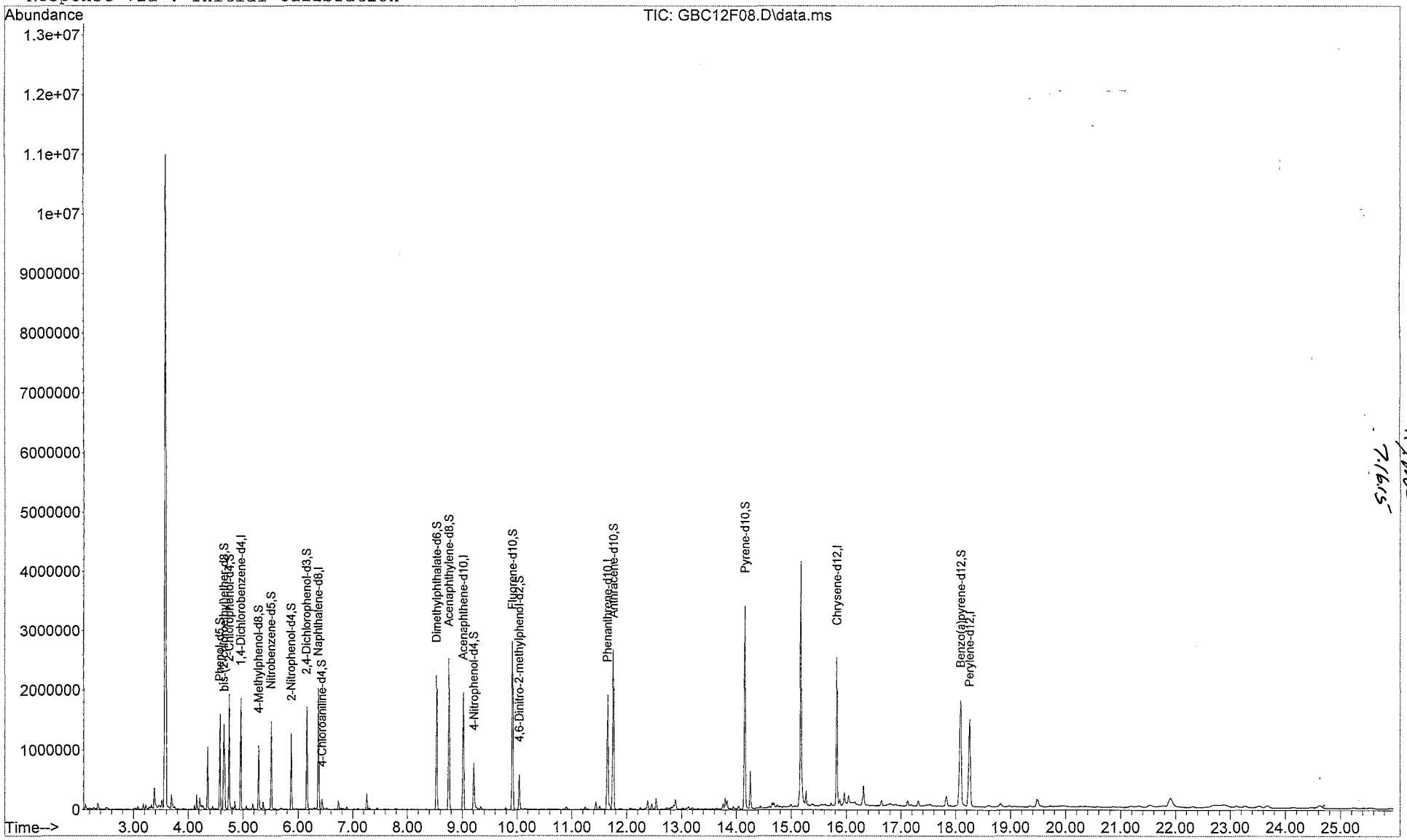
Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC12F08.D
Acq On : 06/02/2015 19:25
Sample : 1514293008 F9L65
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 11
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 14:40:36 2015 Results File: GSOM01D4.RES

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



7.6.15

Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:40:36 2015 Results File: GSOM01D4.RES

Method : R:\G\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	328805	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1226154	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	690834	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1140326	20.00 ug/ml
73) Chrysene-d12	15.83	240	1104377	20.00 ug/ml
81) Perylene-d12	18.25	264	1063528	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	640515	27.935ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	308973	22.007ug/mL
7) 2-Chlorophenol-d4	4.75	132	603949	26.828ug/ml
13) 4-Methylphenol-d8	5.28	113	266319	14.919ug/mL
17) Nitrobenzene-d5	5.51	128	275169	26.748ug/ml
21) 2-Nitrophenol-d4	5.87	143	327978	28.608ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	461363	27.470ug/mL
28) 4-Chloroaniline-d4	6.43	131	81470	4.472ug/mL
42) Dimethylphthalate-d6	8.53	166	1405631	33.456ug/mL
45) Acenaphthylene-d8	8.76	160	1597975	28.500ug/mL
50) 4-Nitrophenol-d4	9.21	143	263064	29.403ug/mL
57) Fluorene-d10	9.92	176	1155769	31.672ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	140863	18.806ug/mL
69) Anthracene-d10	11.76	188	1760576	30.521ug/mL
75) Pyrene-d10	14.16	212	1578758	31.444ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1380760	28.622ug/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)

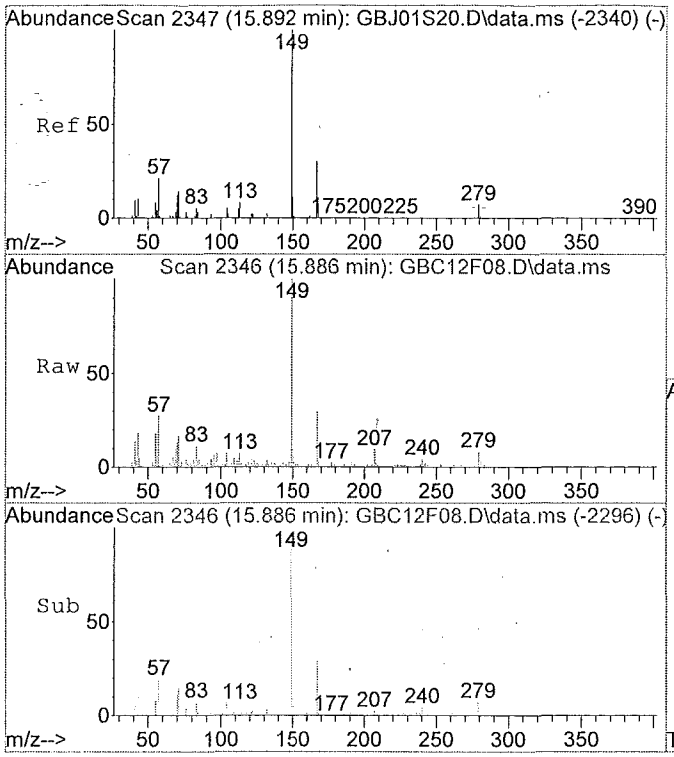
Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:40:36 2015 Results File: GSOM01D4.RES

Method : R:\G\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	15.89	149	37872	0.711ug/ml	95
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	

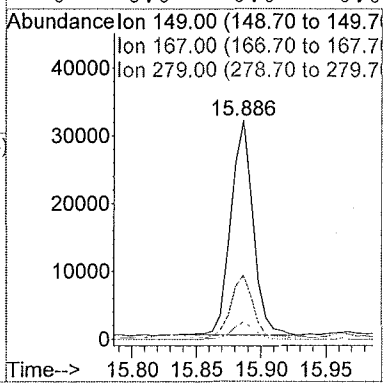
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#80
Bis-(2-ethylhexyl)phthalate
Concen: 0.71 ug/ml
RT: 15.89 min Scan# 2346
Delta R.T. -0.01 min
Lab File: GBC12F08.D
Acq: 06/02/2015 19:25

Tgt Ion:149 Resp: 37872

Ion	Ratio	Lower	Upper
149	100		
167	28.3	22.0	40.8
279	7.3	5.0	9.2
0	0.0	0.0	0.0



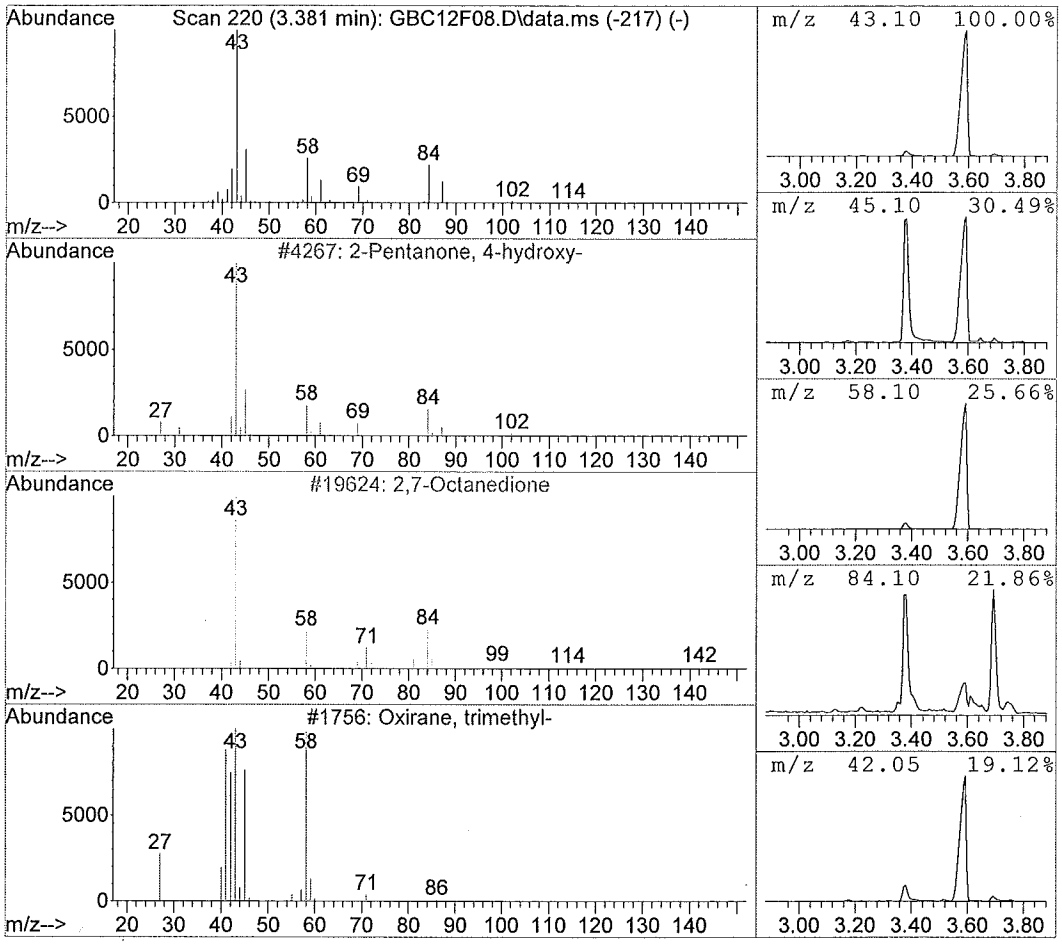
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	5.40 ug/ml	497833	1,4-Dichlorobenzene-d4	1842343

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	50.00
2	2,7-Octanedione	19624	001626-09-1	23.00
3	Oxirane, trimethyl-	1756	005076-19-7	12.00
4	Isopropyl acetate	4254	000108-21-4	10.00
5	Ethylamine	86	000075-04-7	9.00



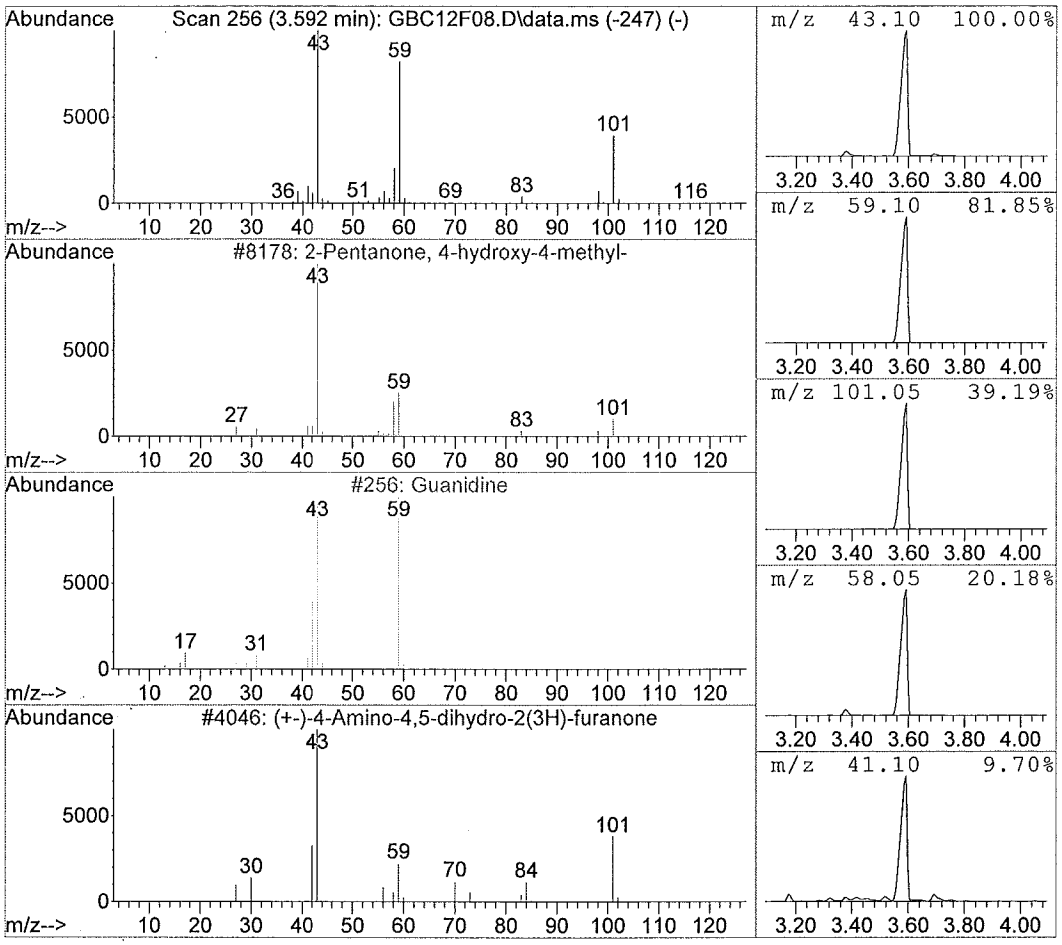
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.59	186.48 ug/ml	17178392	1,4-Dichlorobenzene-d4	1842343

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	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



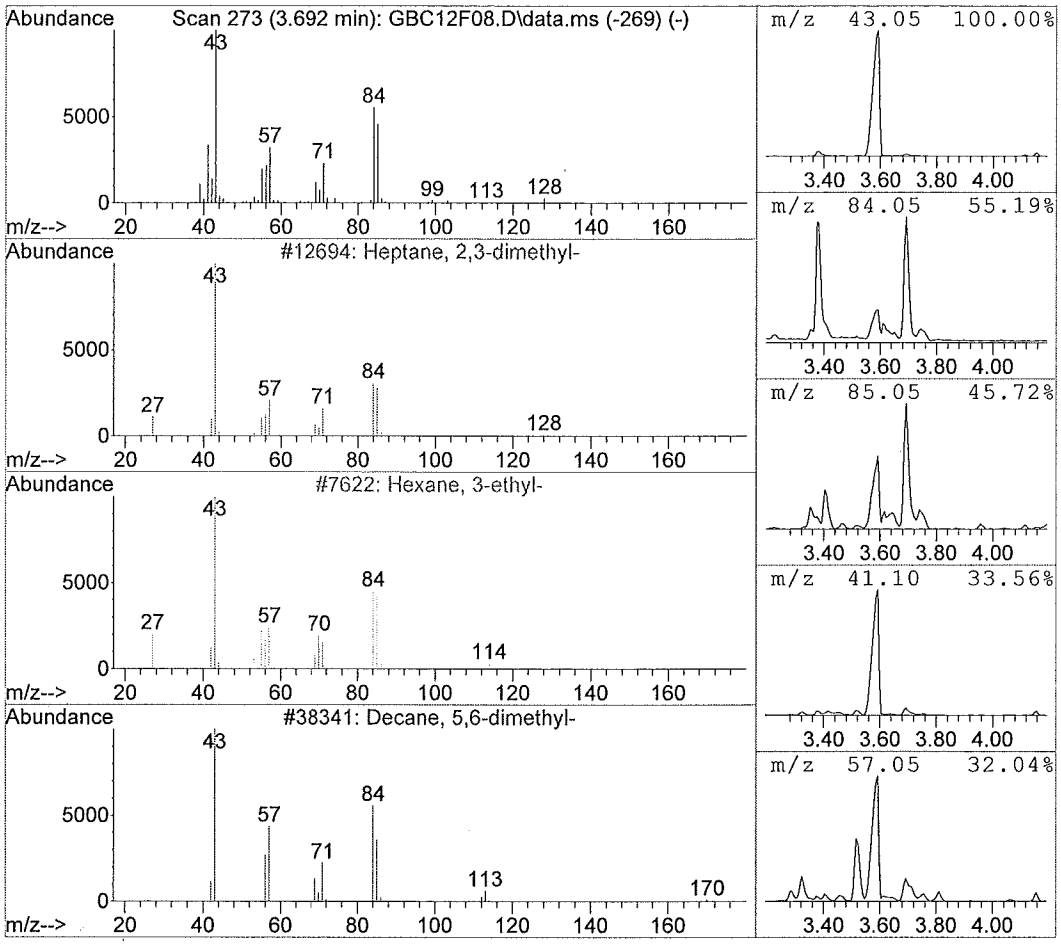
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.69	3.55 ug/ml	327075	1,4-Dichlorobenzene-d4	1842343

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12694	003074-71-3	90.00
2	Hexane, 3-ethyl-	7622	000619-99-8	83.00
3	Decane, 5,6-dimethyl-	38341	001636-43-7	64.00
4	Hexane, 3-ethyl-2-methyl- BA	12730	016789-46-1	59.00
5	Hexane, 2,3,3-trimethyl-	12716	016747-28-7	53.00



00242

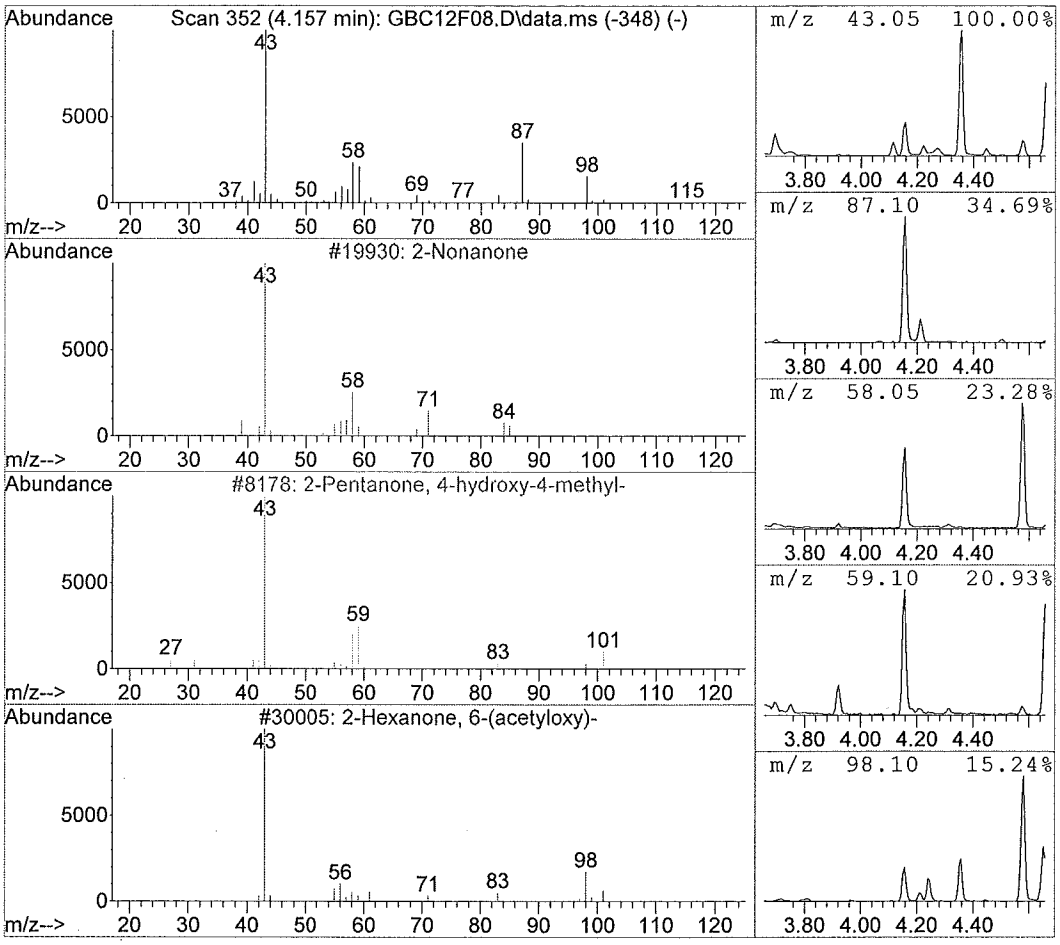
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	2.59 ug/ml	238281	1,4-Dichlorobenzene-d4	1842343

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Nonanone	19930	000821-55-6	35.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	28.00
3	2-Hexanone, 6-(acetyloxy)-	30005	004305-26-4	17.00
4	2-Hexanone, 4-hydroxy-5-methyl-	13495	038836-21-4	17.00
5	2-Hexanone, 4-methyl-	7511	000105-42-0	10.00



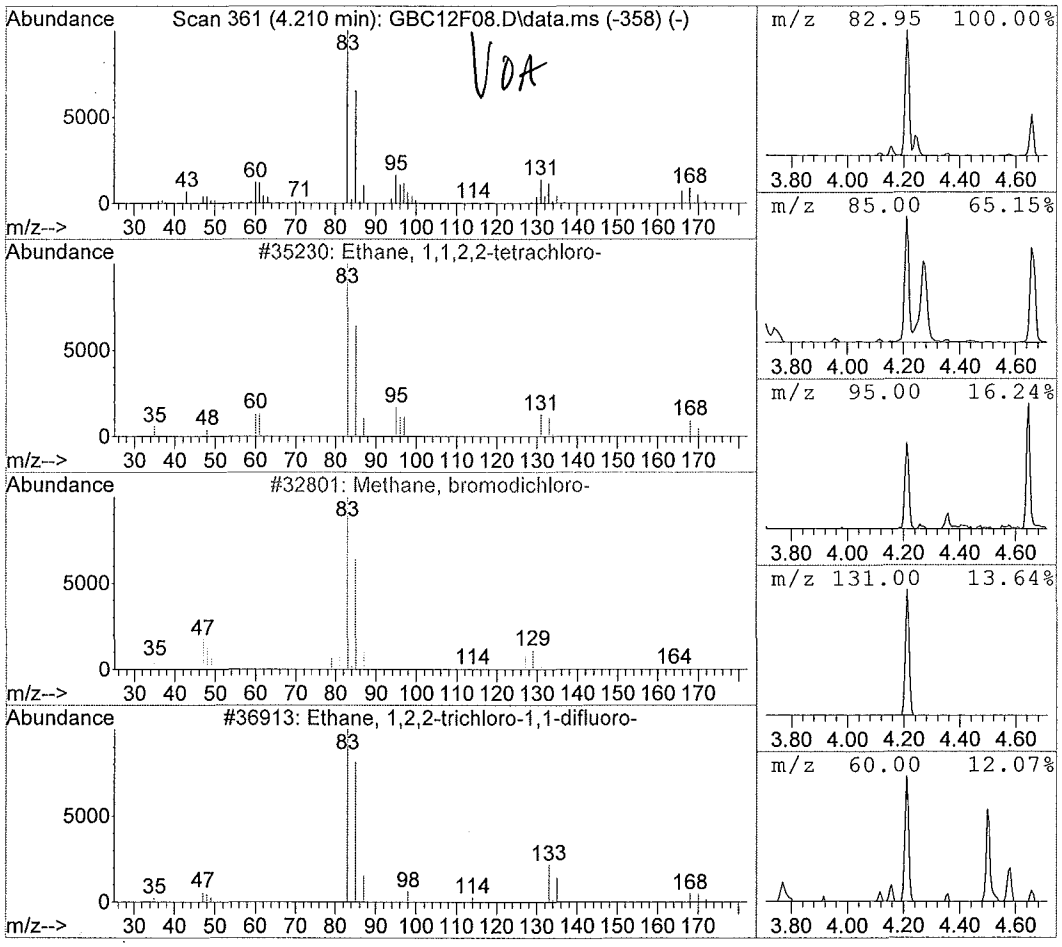
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.21	2.39 ug/ml	220282	1,4-Dichlorobenzene-d4	1842343

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	35230	000079-34-5	98.00
2	Methane, bromodichloro-	32801	000075-27-4	53.00
3	Ethane, 1,2,2-trichloro-1,1-difluor	36913	000354-21-2	49.00
4	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	45.00
5	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	45.00



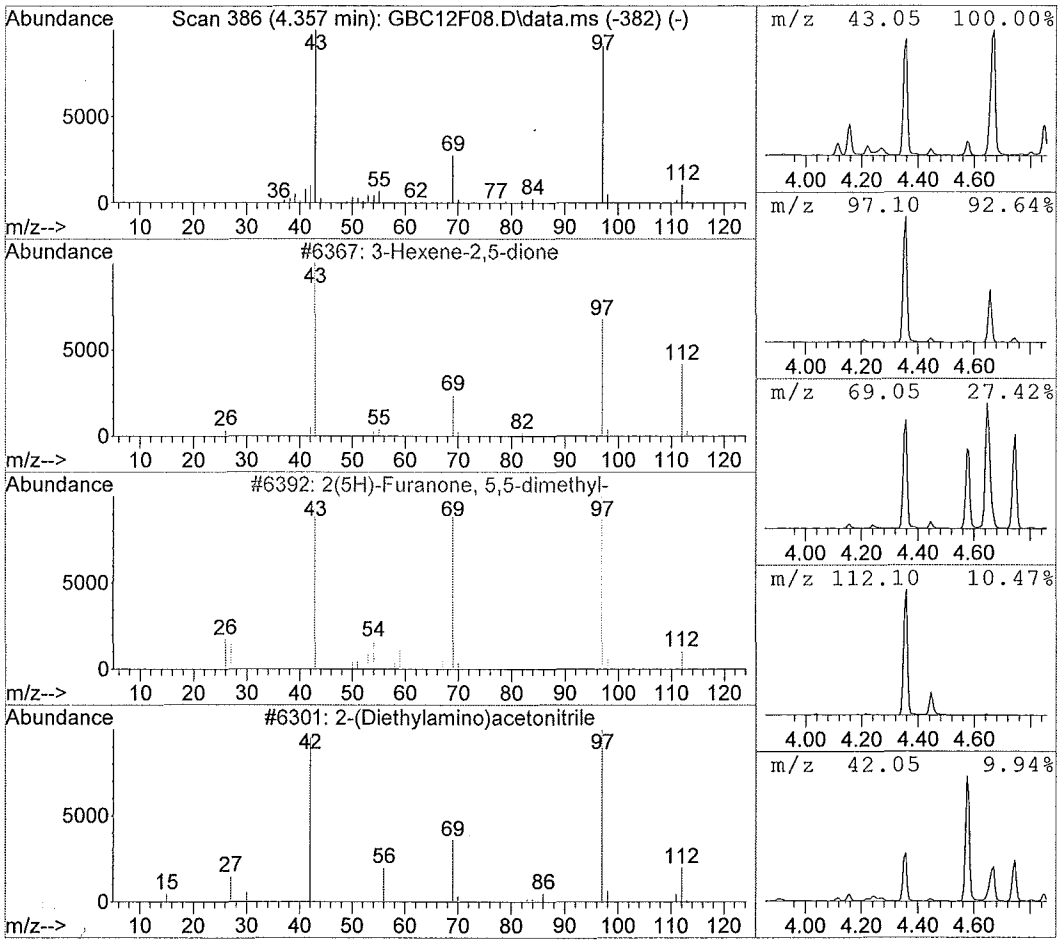
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	10.49 ug/ml	966083	1,4-Dichlorobenzene-d4	1842343

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	25.00
3	2-(Diethylamino)acetonitrile	6301	003010-02-4	12.00
4	1H-Pyrazole, 4,5-dihydro-3,5,5-trim	6322	003975-85-7	9.00
5	1-(Trimethylsilyl)-1-propyne	6338	006224-91-5	9.00



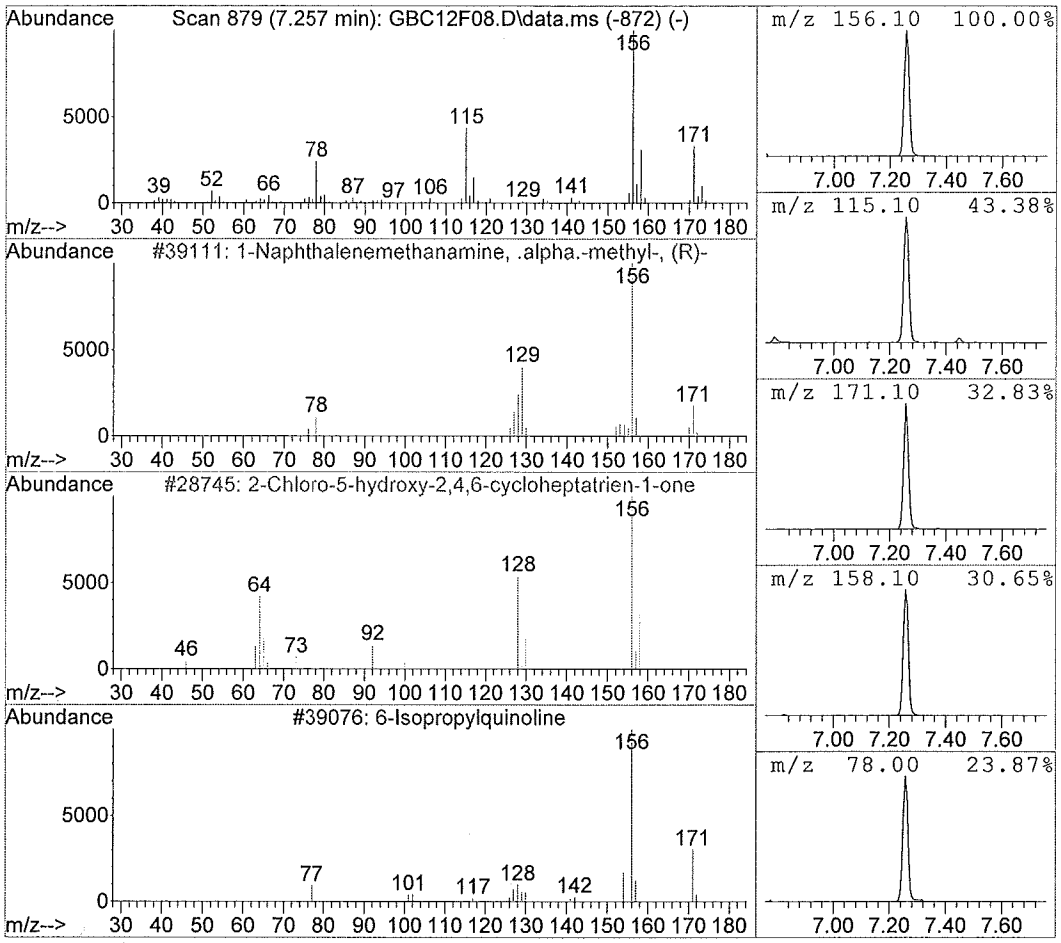
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.26	2.72 ug/ml	325409	Naphthalene-d8	2392390

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Naphthalenemethanamine, .alpha.-m	39111	003886-70-2	47.00
2	2-Chloro-5-hydroxy-2,4,6-cyclohepta	28745	007009-16-7	43.00
3	6-Isopropylquinoline	39076	000135-79-5	38.00
4	1,2,3,3a-Tetrahydropentalene, 1,1-d	39116	1000217-17-0	38.00
5	1,2,3,4-Tetrahydropentalene, 1,1-di	39115	1000217-18-6	37.00



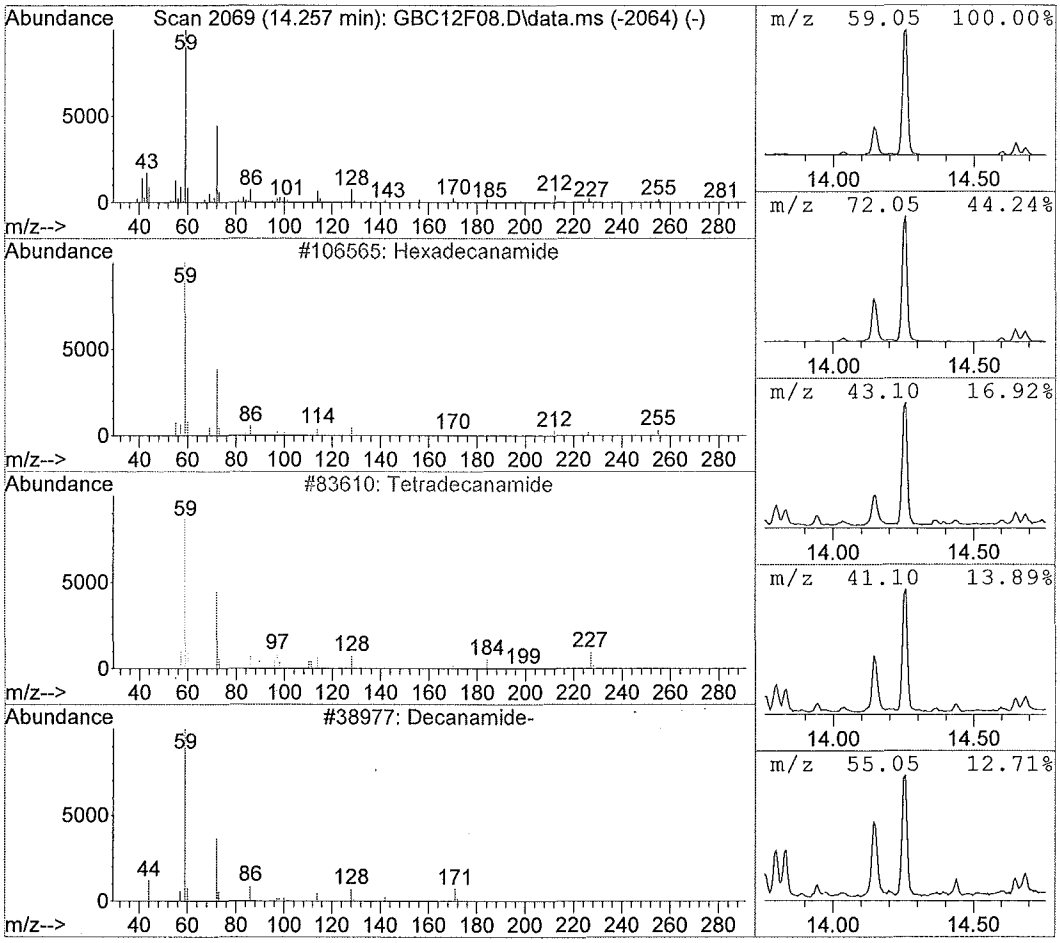
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.26	4.83 ug/ml	763560	Chrysene-d12	3159626

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	96.00
2	Tetradecanamide	83610	000638-58-4	90.00
3	Decanamide-	38977	002319-29-1	83.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00
5	Dodecanamide	60439	001120-16-7	59.00



: 00247

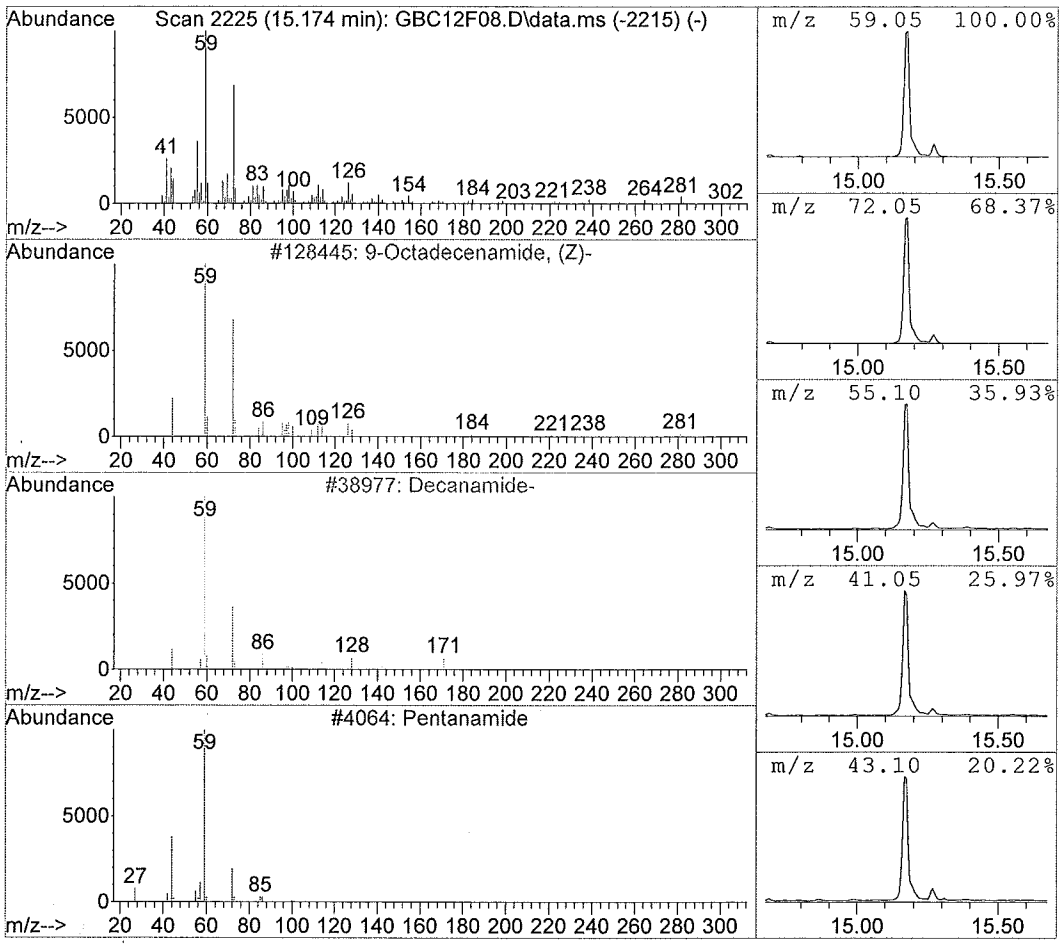
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	37.13 ug/ml	5865629	Chrysene-d12	3159626

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	Decanamide-	38977	002319-29-1	53.00
3	Pentanamide	4064	000626-97-1	53.00
4	Octanamide	20317	000629-01-6	50.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	50.00



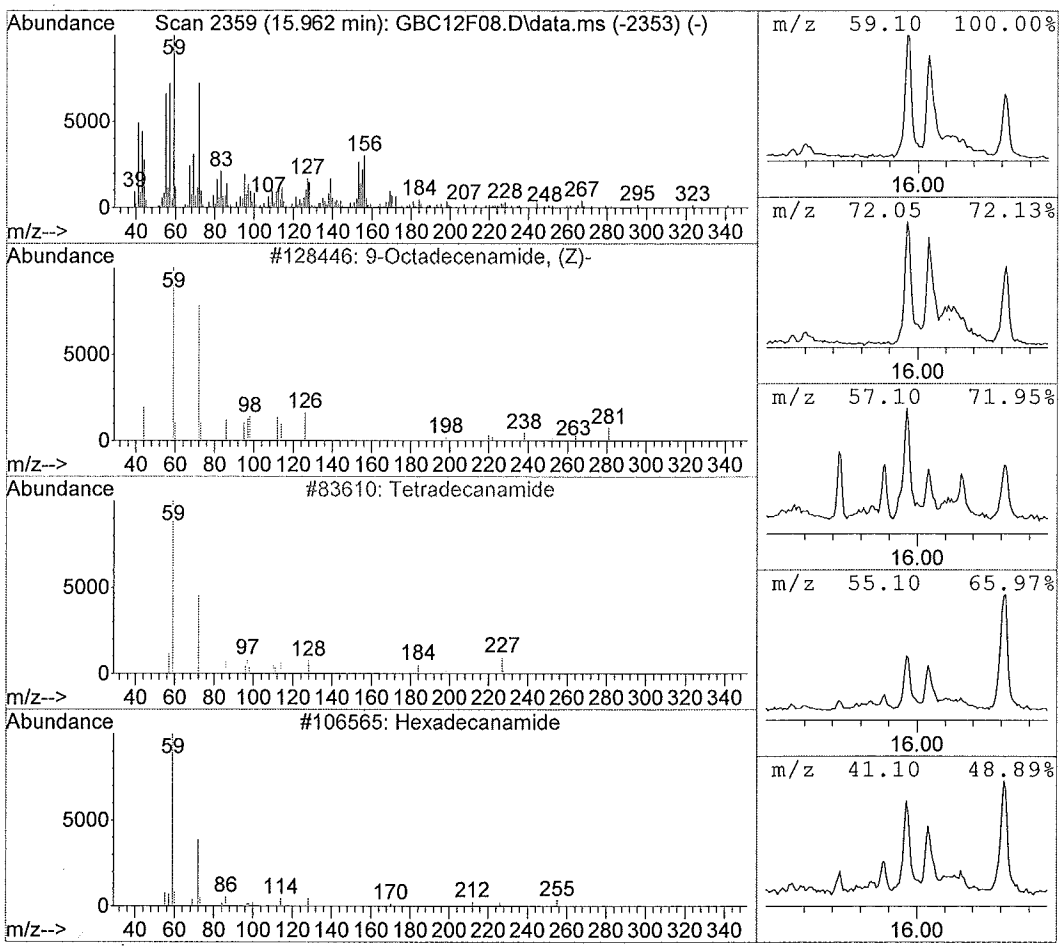
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.96	2.38 ug/ml	375345	Chrysene-d12	3159626

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128446	000301-02-0	91.00
2	Tetradecanamide	83610	000638-58-4	64.00
3	Hexadecanamide	106565	000629-54-9	50.00
4	3-Cyclohexylpropionamide	28138	004361-29-9	43.00
5	Dodecanamide	60440	001120-16-7	43.00



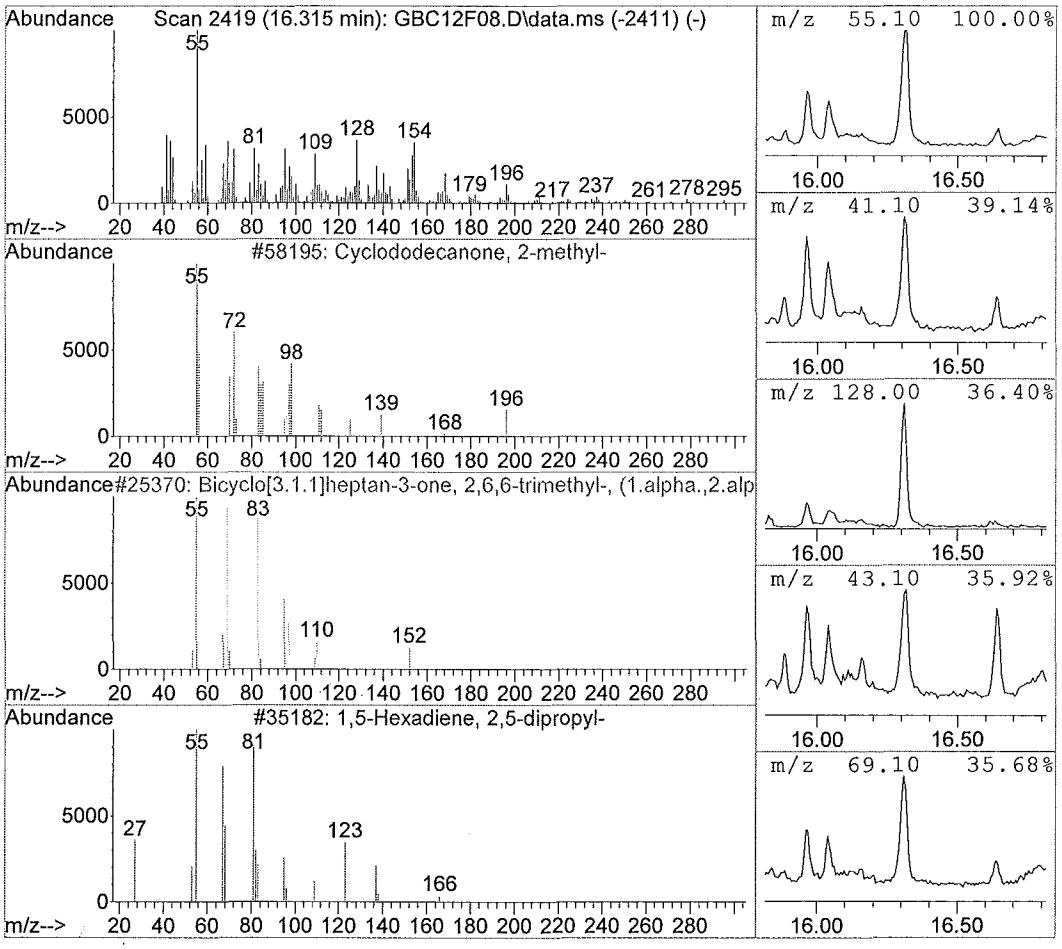
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	3.76 ug/ml	593415	Chrysene-d12	3159626

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclododecanone, 2-methyl-	58195	016837-94-8	15.00
2	Bicyclo[3.1.1]heptan-3-one, 2,6,6-t	25370	000547-60-4	11.00
3	1,5-Hexadiene, 2,5-dipropyl-	35182	1000158-33-4	11.00
4	Bicyclo[3.1.1]heptan-3-one, 2,6,6-t	25246	018358-53-7	11.00
5	N-(3-Methyl-2,5-dioxo-imidazolidin-	39190	1000287-36-8	11.00



Library Search Compound Report

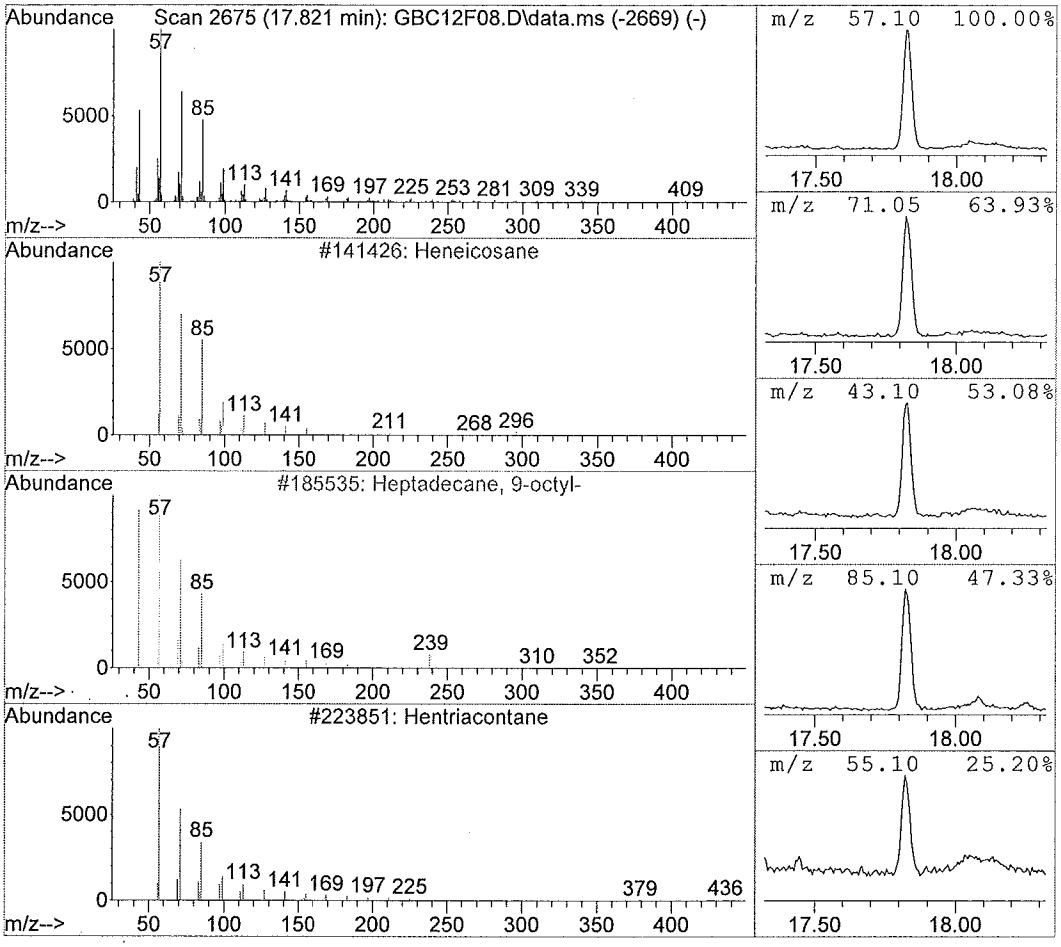
Data File : R:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.82	2.18 ug/ml	344542	Perylene-d12	3159288

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heneicosane	141426	000629-94-7	90.00
2	Heptadecane, 9-octyl-	185535	007225-64-1	90.00
3	Hentriacontane	223851	000630-04-6	90.00
4	Nonadecane, 9-methyl-	129499	013287-24-6	87.00
5	Octacosane	209566	000630-02-4	87.00

SCA



00251

Library Search Compound Report

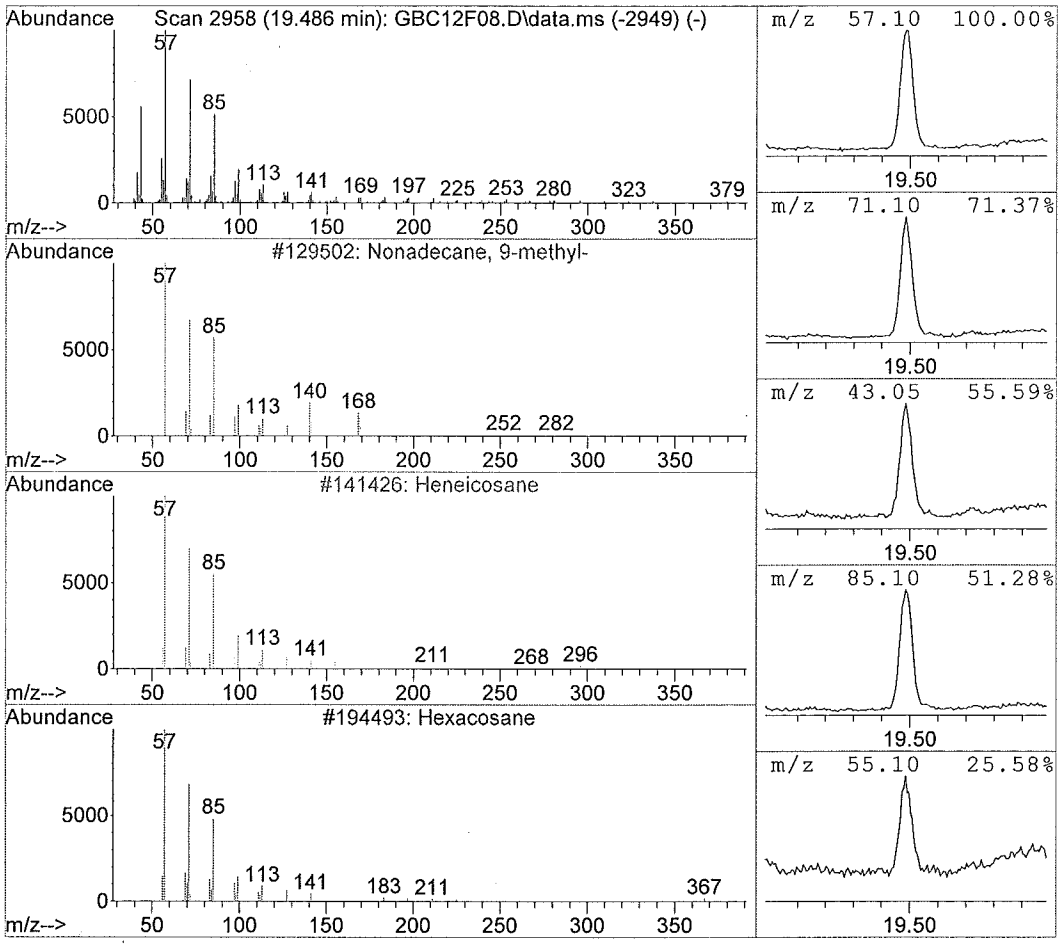
Data File : R:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.49	2.46 ug/ml	389263	Perylene-d12	3159288

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonadecane, 9-methyl-	129502	013287-24-6	90.00
2	Heneicosane	141426	000629-94-7	90.00
3	Hexacosane	194493	000630-01-3	90.00
4	Octadecane	105885	000593-45-3	87.00
5	Heneicosane, 11-decyl-	223853	055320-06-4	87.00

BA



: 000252

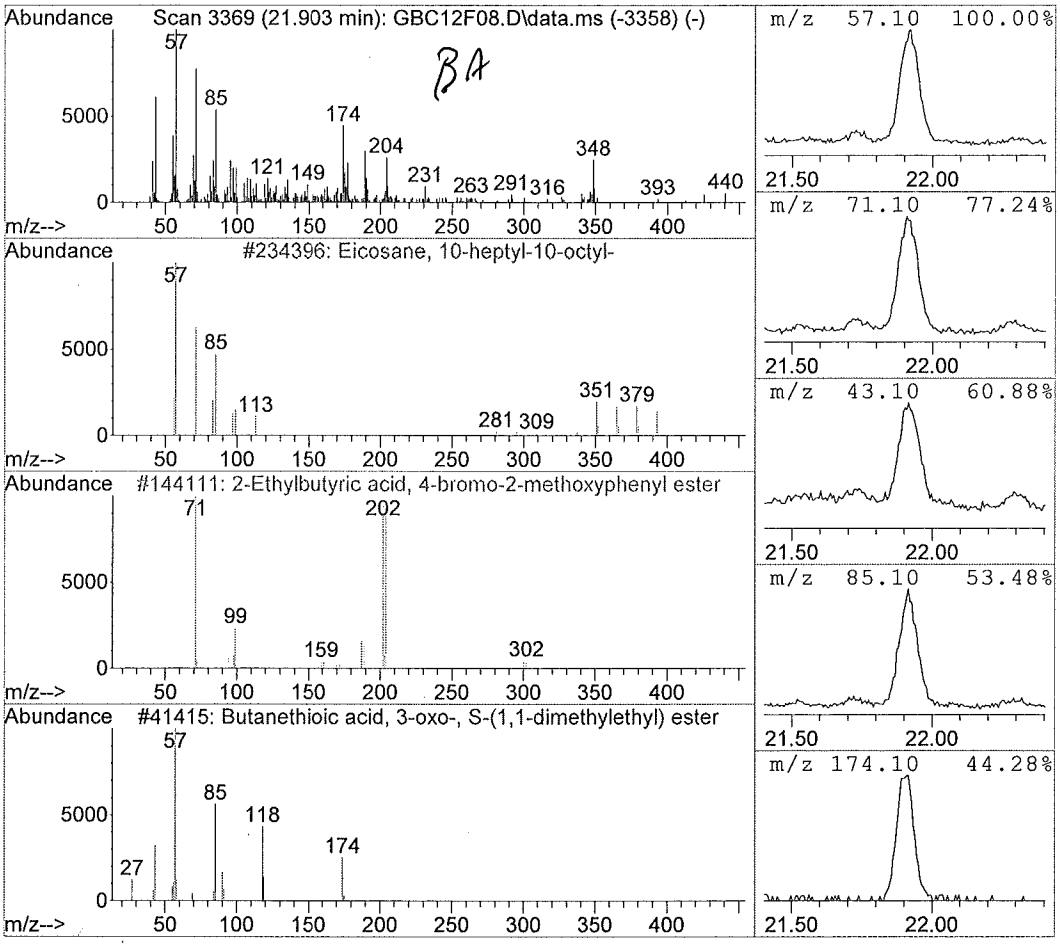
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	4.38 ug/ml	692637	Perylene-d12	3159288

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane, 10-heptyl-10-octyl-	234396	055470-98-9	25.00
2	2-Ethylbutyric acid, 4-bromo-2-meth	144111	1000371-16-7	22.00
3	Butanethioic acid, 3-oxo-, S-(1,1-d	41415	015925-47-0	10.00
4	9-Octadecene, 1,1-dimethoxy-, (Z)-	154958	015677-71-1	10.00
5	3-Decanethiol	40935	056009-26-8	9.00



1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L66

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293009

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC13F09

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	200	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L66

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293009

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC13F09

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9L66

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293009

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC13F09

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 2,2-dimethoxy-	2.13	370	JB
02		Unknown 2-Pentanone, 4-hydroxy-	3.38	180	J
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.59	6500	J
04		Unknown TATP	4.16	100	J
05		Unknown 2(5H)-Furanone, 5,5-dimethyl-	4.36	440	J
06		Unknown 1-Naphthalenemethanamine, .alpha.-methyl	7.26	86.	J
07	629-54-9	Hexadecanamide	14.26	190	JNB
08	301-02-0	9-Octadecenamide, (Z)-	15.17	1500	JNB
09		Unknown 7-Nonenamide	15.96	96.	J
10		Unknown Chloromethyl 7-chlorodecanoate	16.31	140	J
11	112-84-5	13-Docosenamide, (Z)-	17.12	330	JN
12		Unknown Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	21.54	1200	J
13		Unknown .delta.-Selinene	21.89	360	J
14		Unknown 1-Naphthalenecarboxylic acid, decahydro-	22.21	83.	J
15		Unknown Silane, diethylhexadecyloxy(3-methylbutc	23.67	83.	J
16		Unknown D:A-Friedooleanan-28-al, 3-oxo-	24.14	120	J
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	130	J

[2] EPA-designated Registry Number.

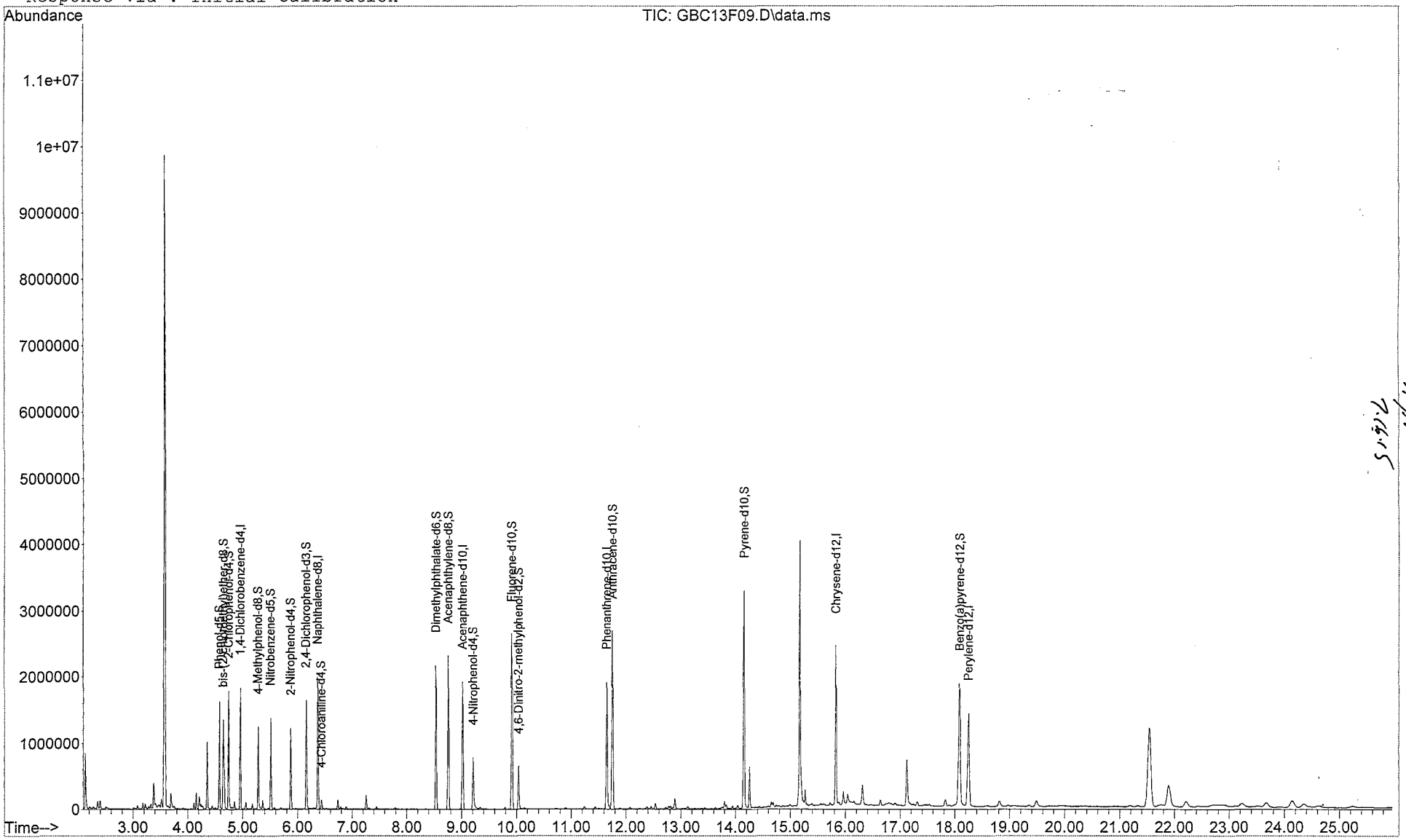
Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC13F09.D
Acq On : 06/02/2015 19:58
Sample : 1514293009 F9L66
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 12
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 14:41:12 2015 Results File: GSOM01D4.RES

Method : R:\G\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 : R:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:41:12 2015 Results File: GSOM01D4.RES

Method : R:\G\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	321956	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1199687	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	675851	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1118589	20.00 ug/ml
73) Chrysene-d12	15.83	240	1081887	20.00 ug/ml
81) Perylene-d12	18.25	264	1033538	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	602095	26.818ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	285756	20.787ug/mL
7) 2-Chlorophenol-d4	4.75	132	568341	25.783ug/ml
13) 4-Methylphenol-d8	5.28	113	311091	17.797ug/mL
17) Nitrobenzene-d5	5.51	128	255234	25.357ug/ml
21) 2-Nitrophenol-d4	5.87	143	317833	28.334ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	442039	26.900ug/mL
28) 4-Chloroaniline-d4	6.43	131	63255	3.549ug/mL
42) Dimethylphthalate-d6	8.53	166	1353154	32.921ug/mL
45) Acenaphthylene-d8	8.76	160	1517662	27.667ug/mL
50) 4-Nitrophenol-d4	9.21	143	259285	29.624ug/mL
57) Fluorene-d10	9.92	176	1112556	31.163ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	160756	21.879ug/mL
69) Anthracene-d10	11.75	188	1746056	30.858ug/mL
75) Pyrene-d10	14.16	212	1546663	31.446ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1391904	29.690ug/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 : R:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:41:12 2015 Results File: GSOM01D4.RES

Method : R:\G\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)

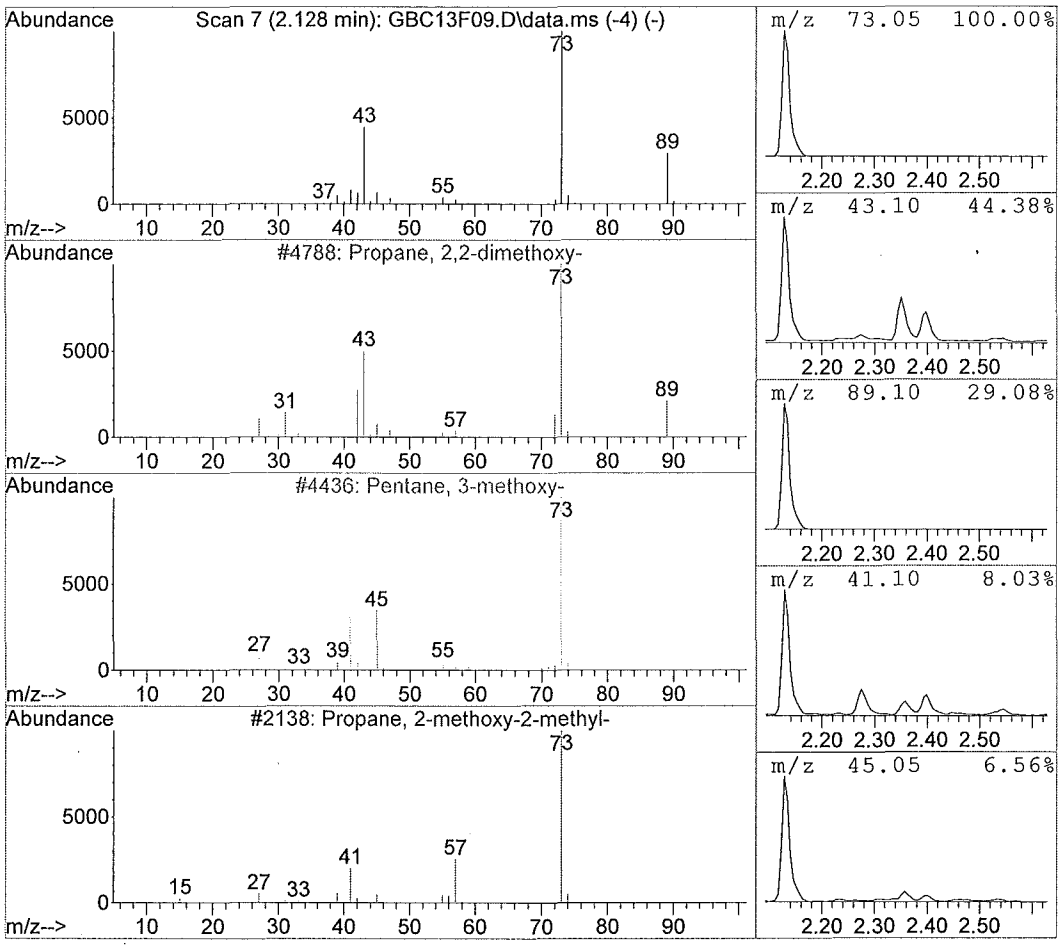
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.13	9.58 ug/ml	859426	1,4-Dichlorobenzene-d4	1794877

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 2,2-dimethoxy-	4788	000077-76-9	38.00
2	Pentane, 3-methoxy-	4436	036839-67-5	17.00
3	Propane, 2-methoxy-2-methyl-	2138	001634-04-4	9.00
4	N-Ethylformamide	734	000627-45-2	5.00
5	Methane, isothiocyanato-	717	000556-61-6	5.00



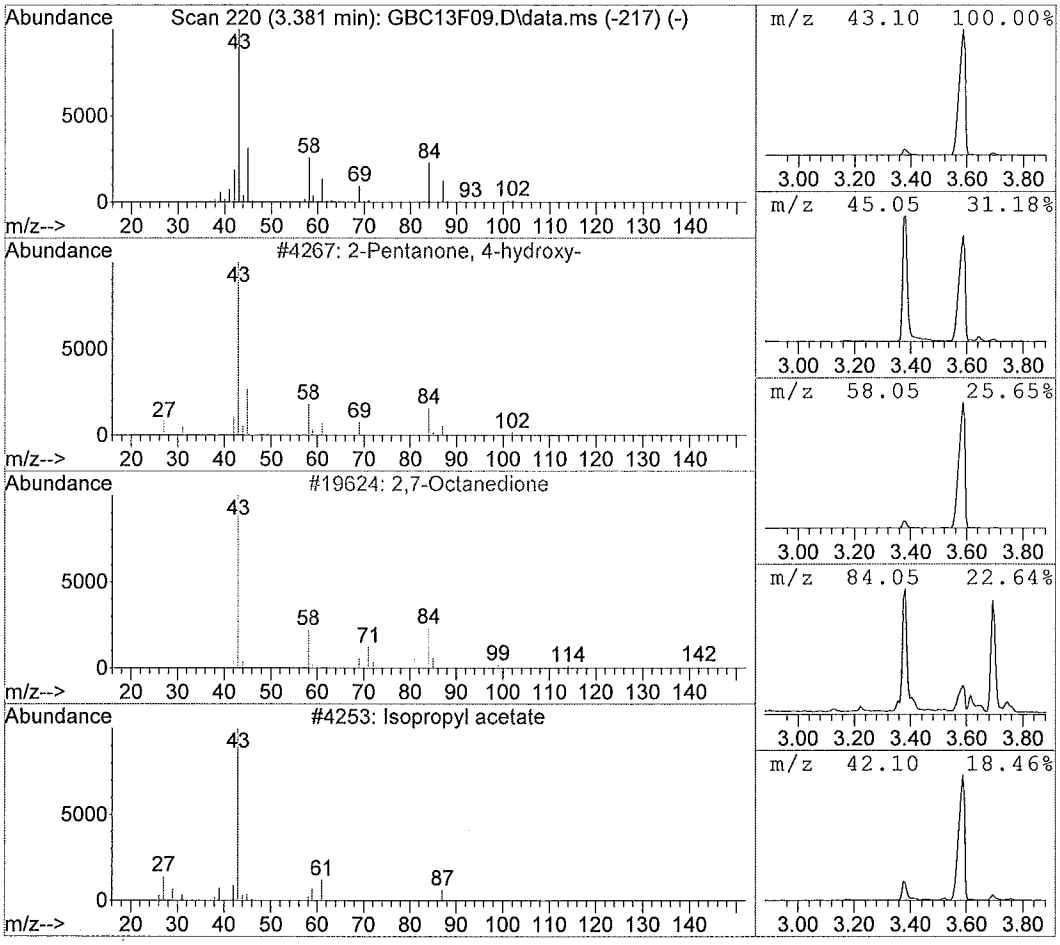
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	4.65 ug/ml	417158	1,4-Dichlorobenzene-d4	1794877

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	50.00
2	2,7-Octanedione	19624	001626-09-1	25.00
3	Isopropyl acetate	4253	000108-21-4	17.00
4	Oxirane, trimethyl-	1756	005076-19-7	12.00
5	Ethanol, 2-methoxy-, acetate	8703	000110-49-6	12.00



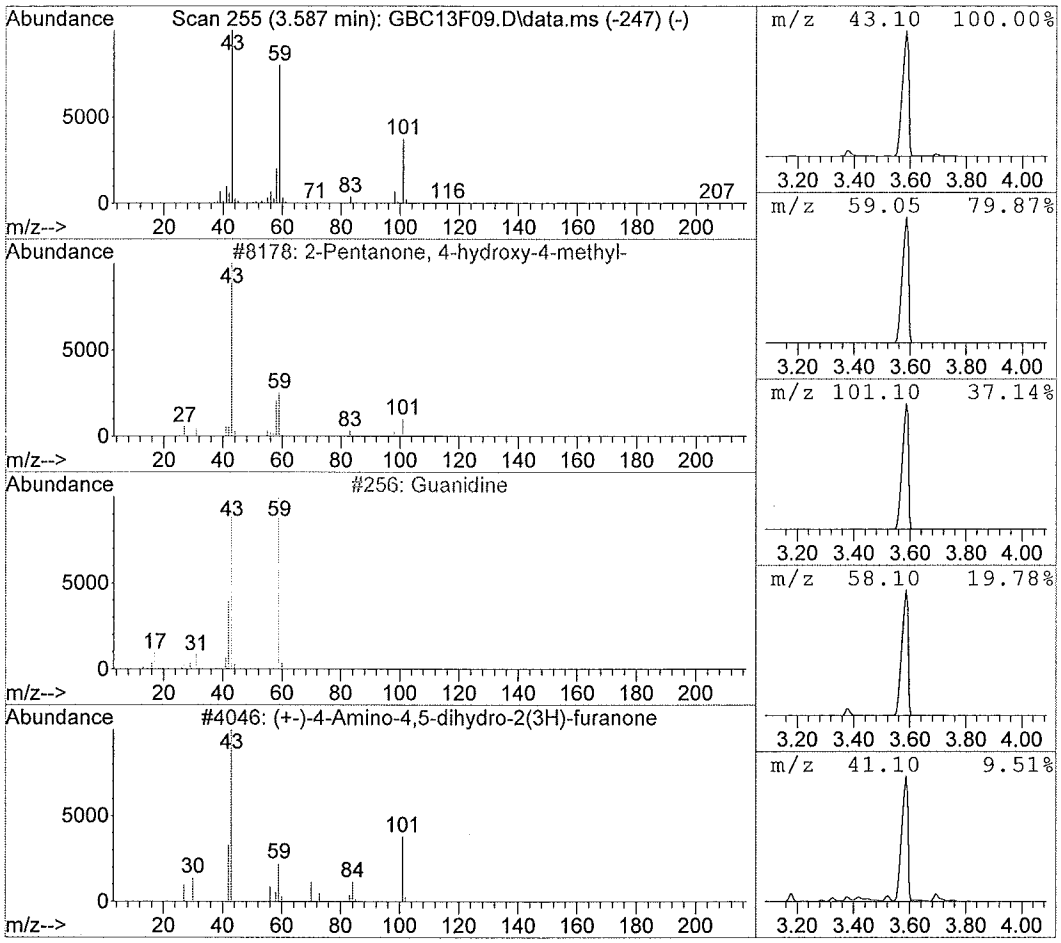
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.59	166.81 ug/ml	14970323	1,4-Dichlorobenzene-d4	1794877

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	5-Hexen-2-one	3159	000109-49-9	9.00



Library Search Compound Report

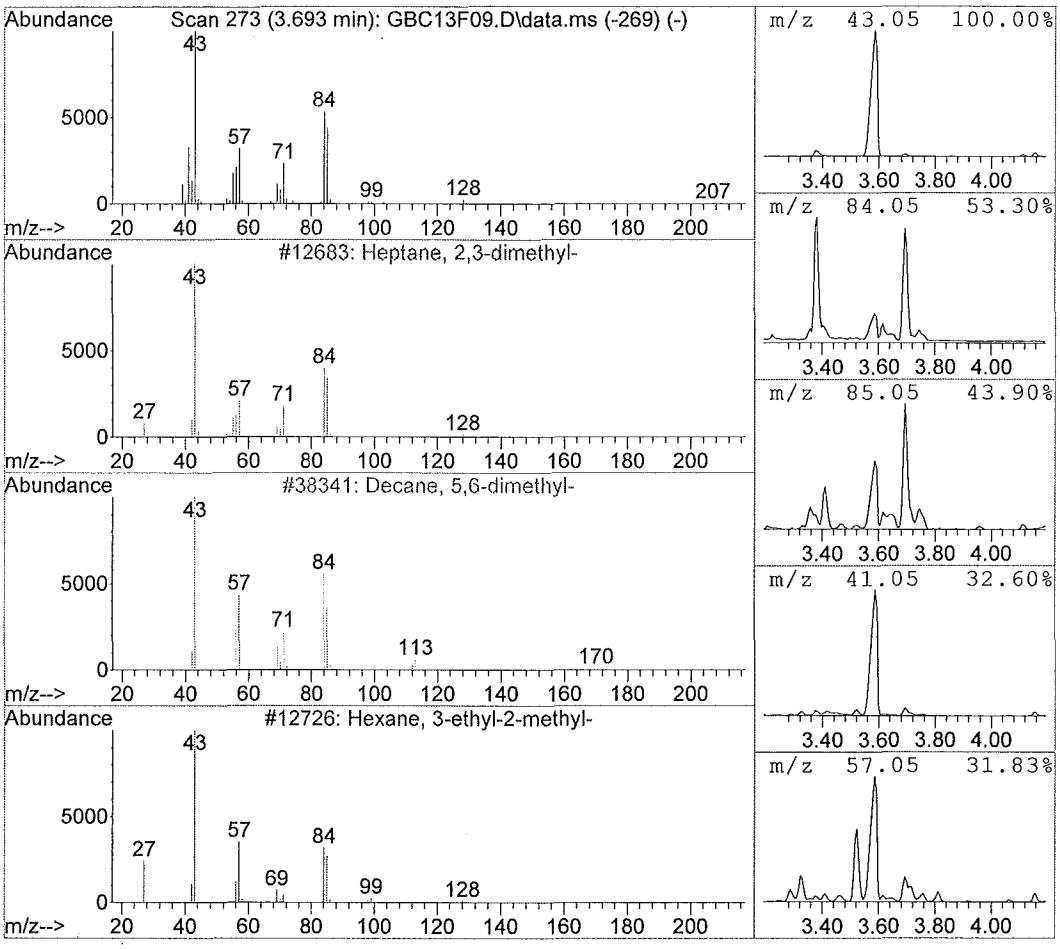
Data File : R:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.69	3.32 ug/ml	297709	1,4-Dichlorobenzene-d4	1794877

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12683	003074-71-3	87.00
2	Decane, 5,6-dimethyl-	38341	001636-43-7	72.00
3	Hexane, 3-ethyl-2-methyl-	12726	016789-46-1	72.00
4	Octane, 4,5-diethyl-	38336	001636-41-5	64.00
5	Octane, 3,4-dimethyl-	19179	015869-92-8	53.00

BA



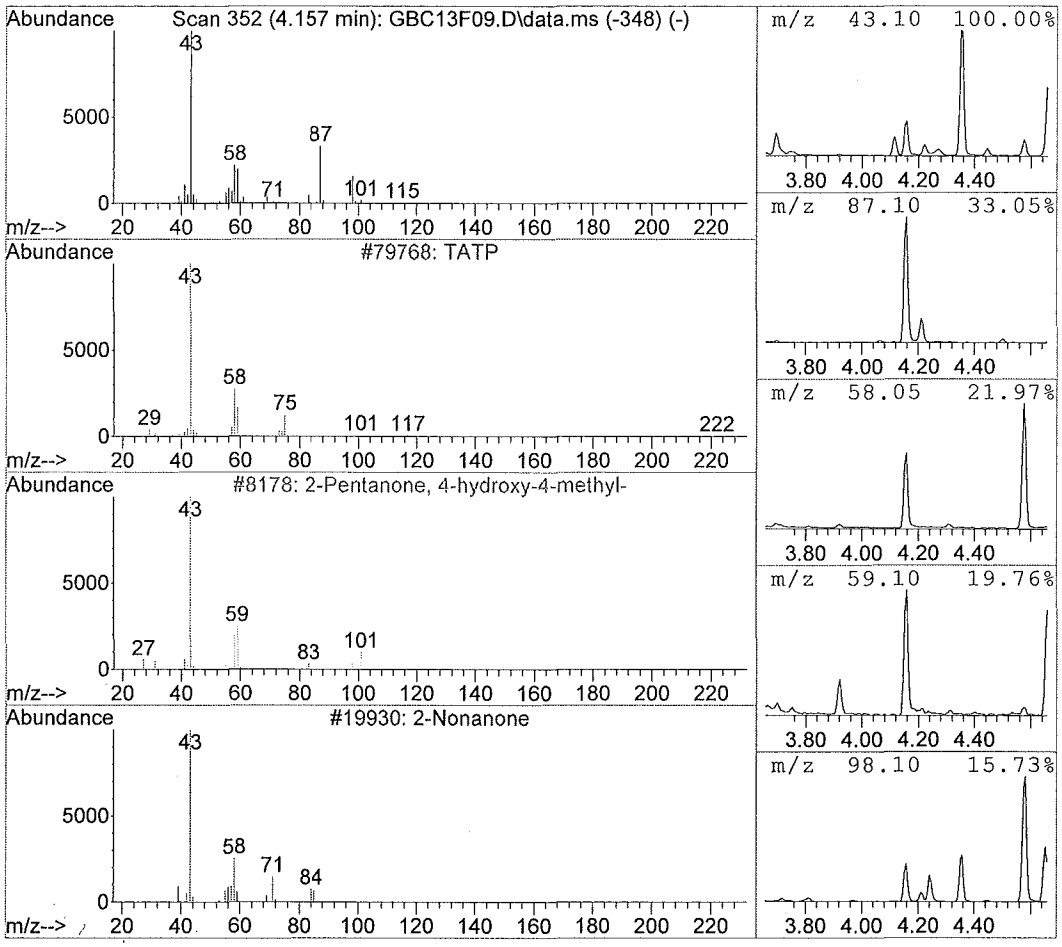
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	2.64 ug/ml	236555	1,4-Dichlorobenzene-d4	1794877

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	TATP	79768	017088-37-8	43.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	28.00
3	2-Nonanone	19930	000821-55-6	25.00
4	2-Hexanone, 4-hydroxy-5-methyl-	13495	038836-21-4	25.00
5	2-Hexanone, 6-(acetyloxy)-	30005	004305-26-4	12.00



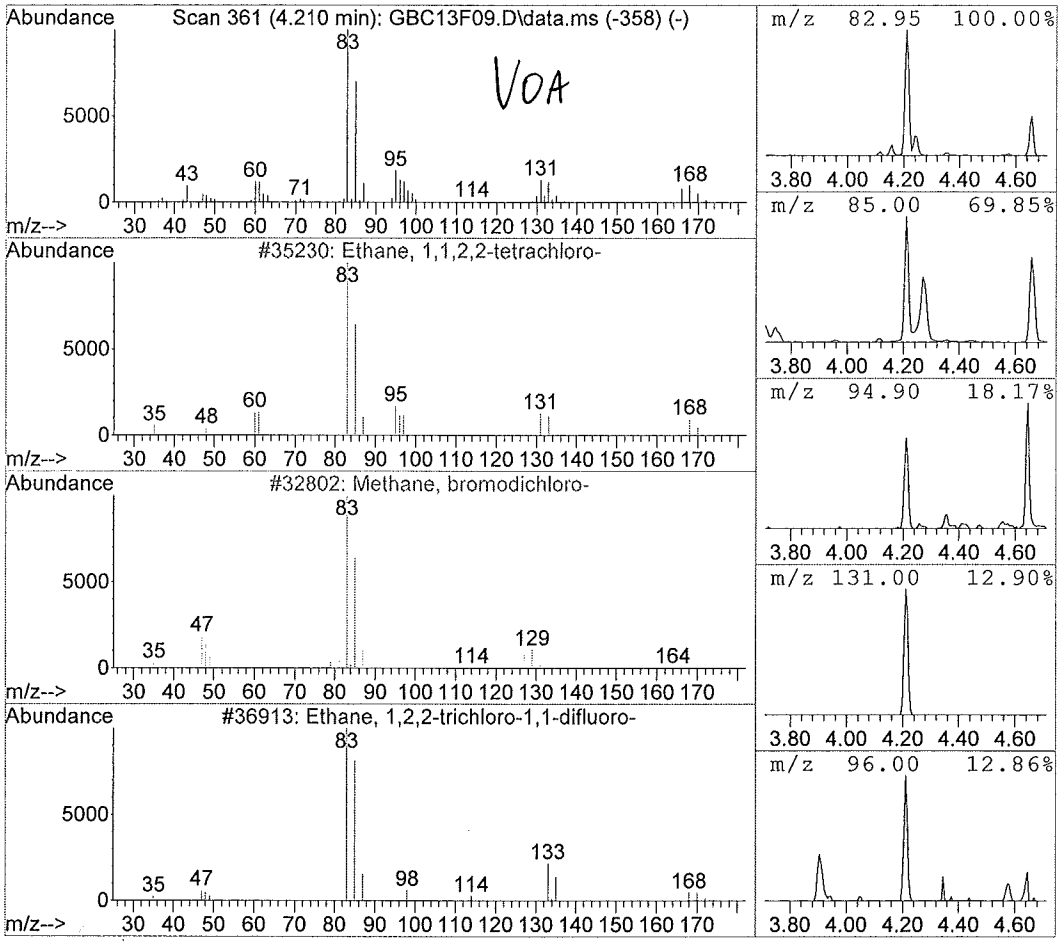
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.21	2.30 ug/ml	206055	1,4-Dichlorobenzene-d4	1794877

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	35230	000079-34-5	98.00
2	Methane, bromodichloro-	32802	000075-27-4	50.00
3	Ethane, 1,2,2-trichloro-1,1-difluor	36913	000354-21-2	43.00
4	Methane, oxybis[dichloro-	47352	020524-86-1	40.00
5	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	40.00



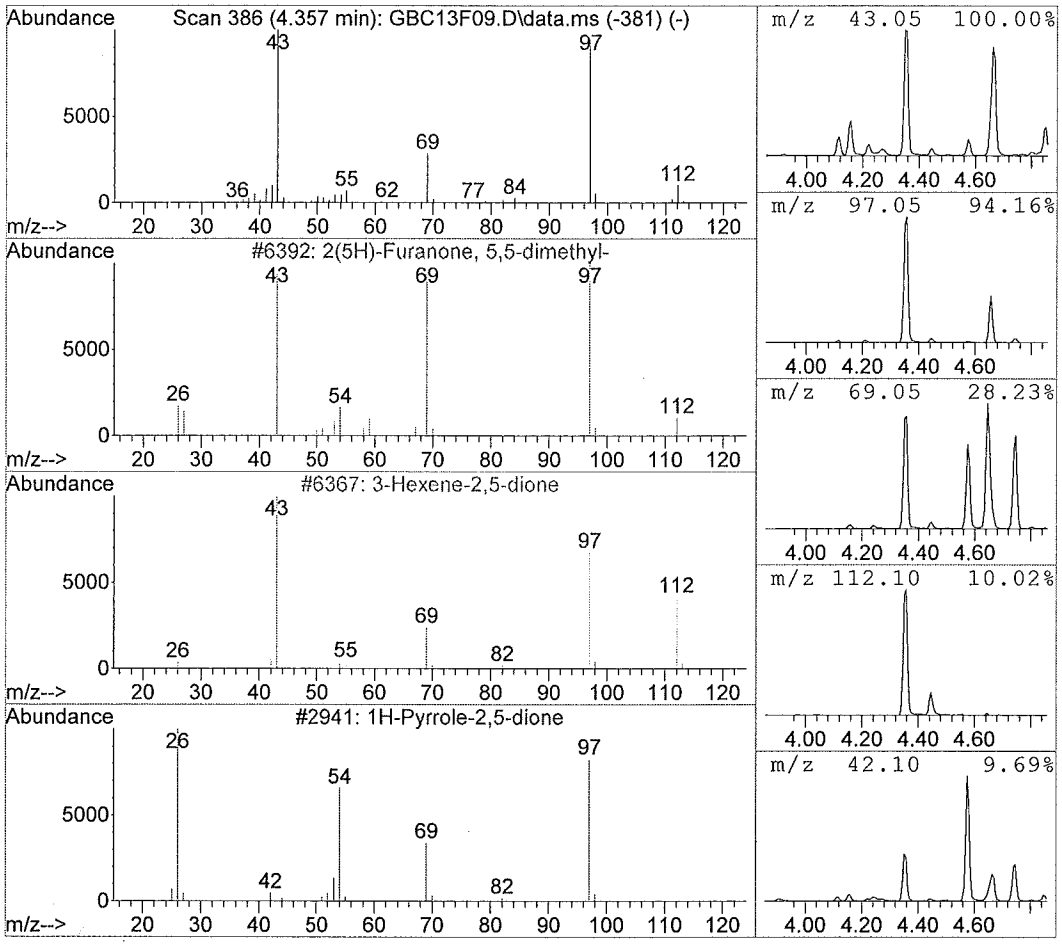
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	11.21 ug/ml	1006184	1,4-Dichlorobenzene-d4	1794877

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	64.00
2	3-Hexene-2,5-dione	6367	004436-75-3	56.00
3	1H-Pyrrole-2,5-dione	2941	000541-59-3	40.00
4	2-Pyrazoline, 1,4,5-trimethyl-	6304	007423-11-2	10.00
5	1-(Trimethylsilyl)-1-propyne	6337	006224-91-5	9.00



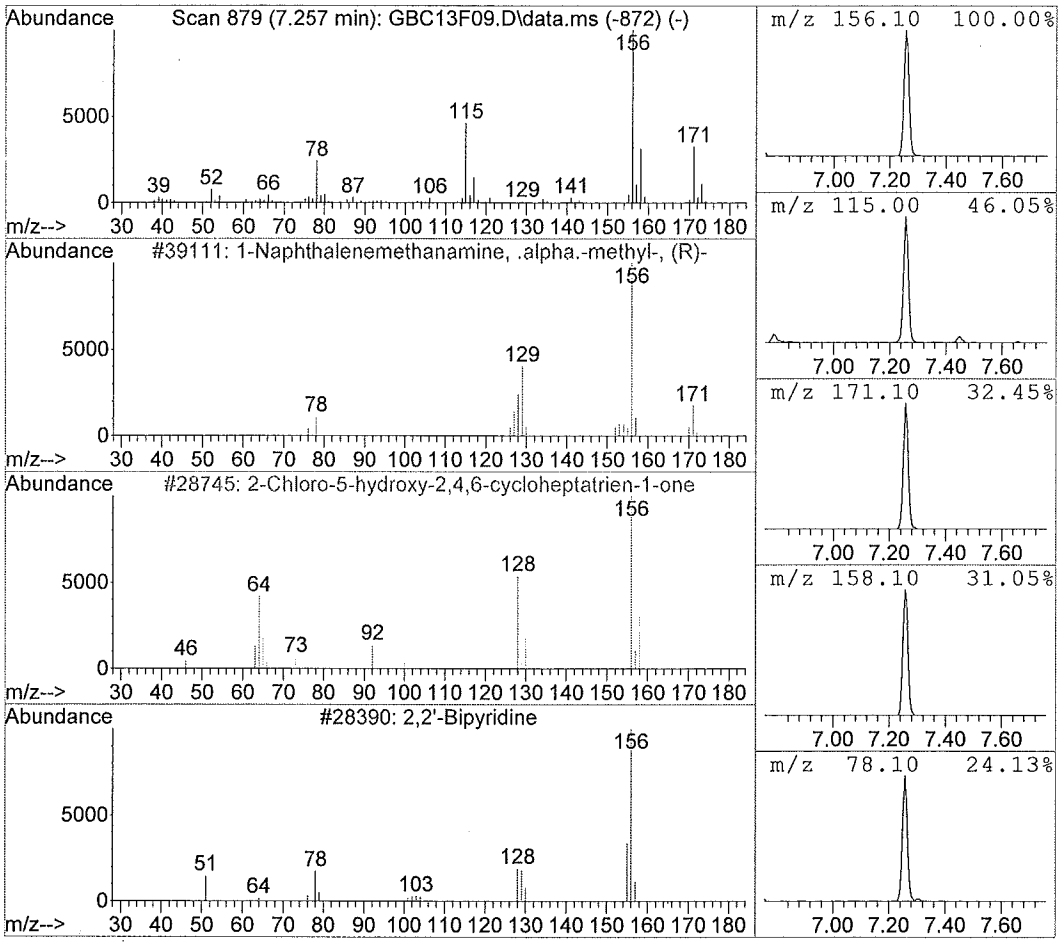
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.26	2.20 ug/ml	258760	Naphthalene-d8	2351241

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Naphthalenemethanamine, .alpha.-m	39111	003886-70-2	43.00
2	2-Chloro-5-hydroxy-2,4,6-cyclohepta	28745	007009-16-7	43.00
3	2,2'-Bipyridine	28390	000366-18-7	38.00
4	1,3-Diaza-5,6-dedihydrocyclohexan-4	39204	021263-85-4	38.00
5	1,2,3,4-Tetrahydropentalene, 1,1-di	39115	1000217-18-6	37.00



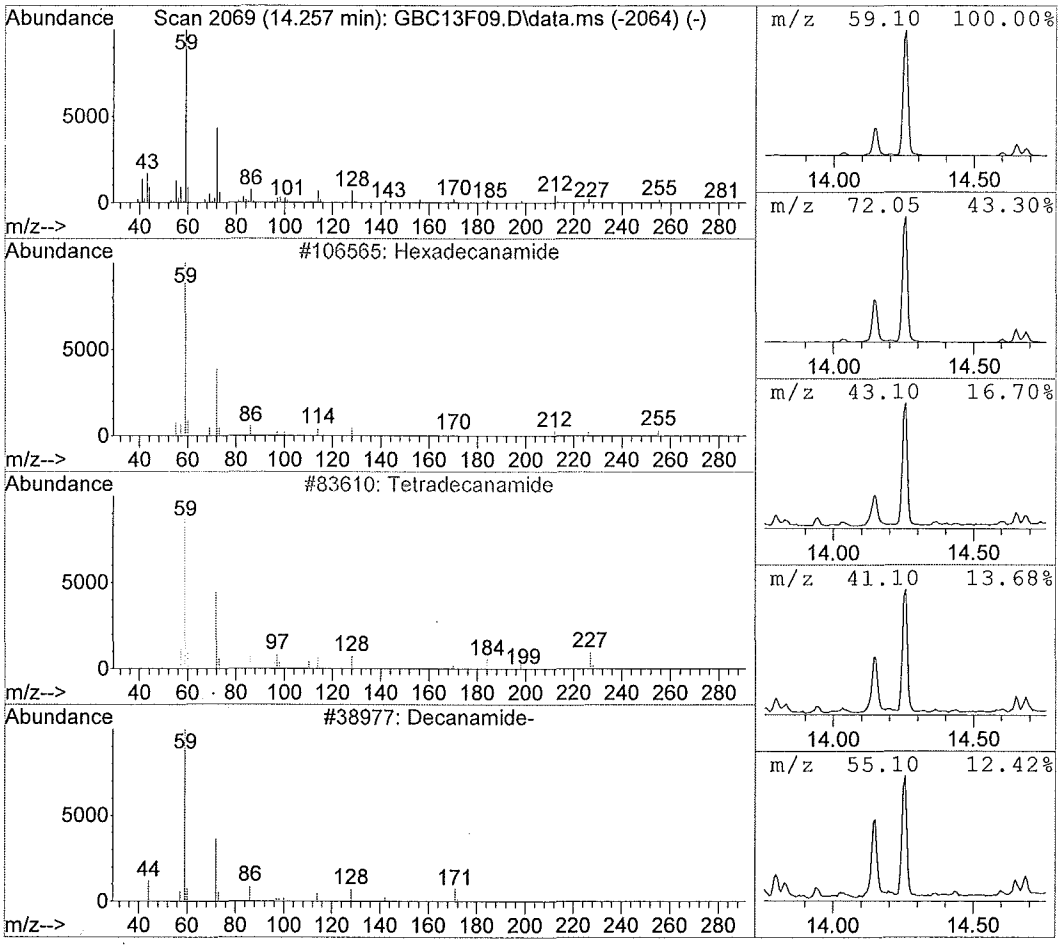
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.26	4.77 ug/ml	731096	Chrysene-d12	3068243

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	83.00
4	Dodecanamide	60439	001120-16-7	64.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00



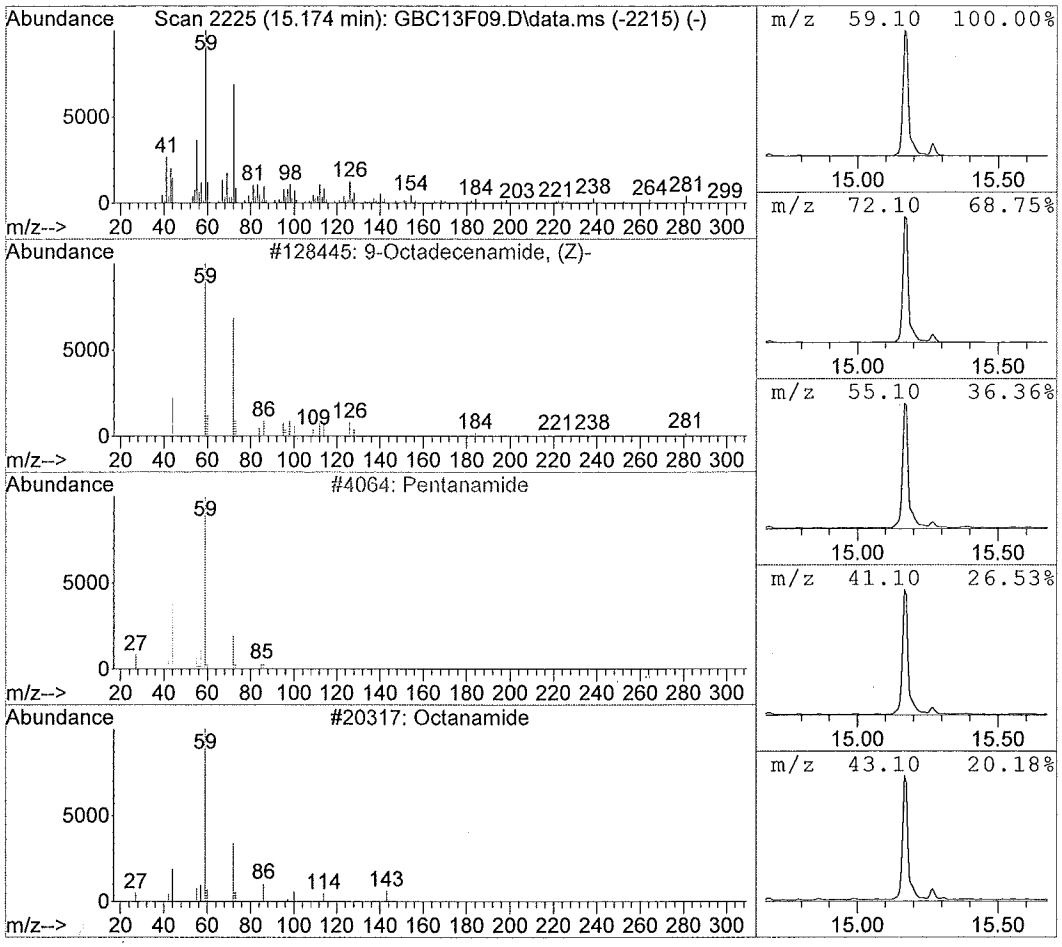
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	37.43 ug/ml	5742492	Chrysene-d12	3068243

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	Octanamide	20317	000629-01-6	50.00
4	Dodecanamide	60440	001120-16-7	50.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	47.00



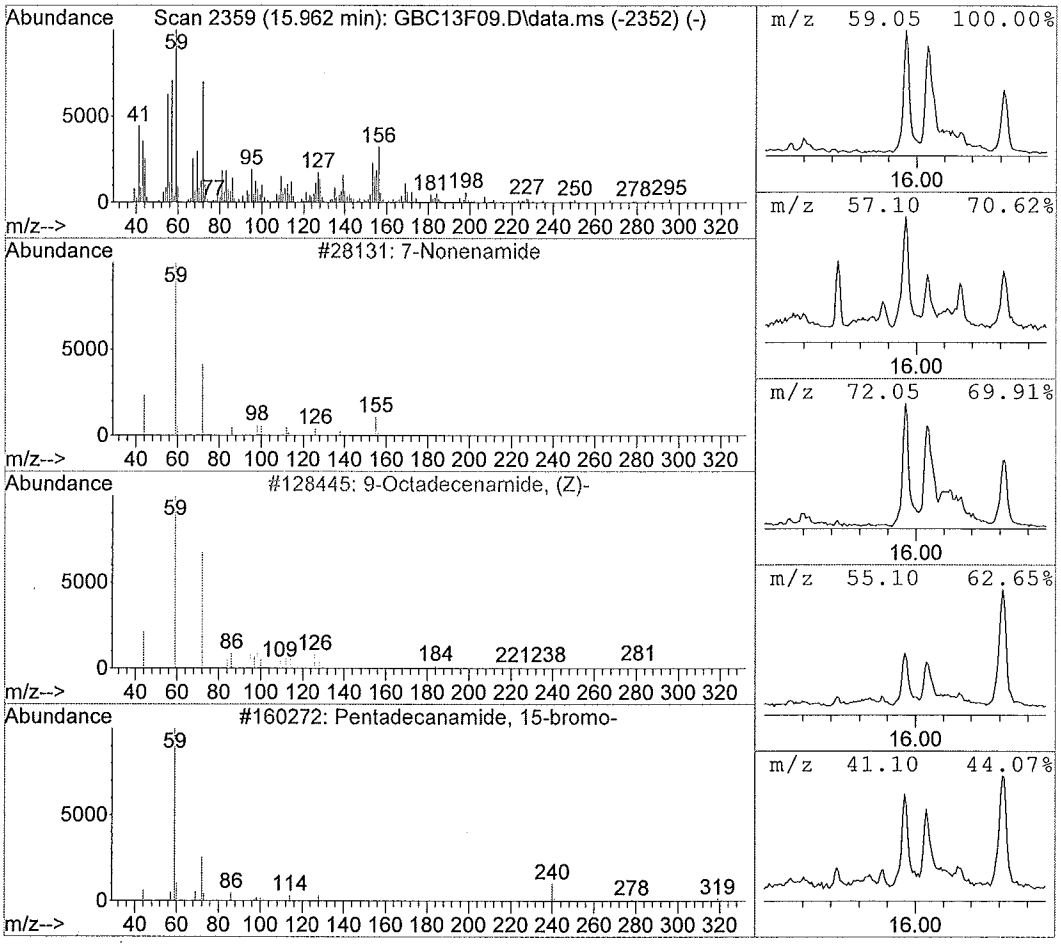
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.96	2.46 ug/ml	377519	Chrysene-d12	3068243

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7-Nonenamide	28131	090949-53-4	53.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	52.00
3	Pentadecanamide, 15-bromo-	160272	1000163-86-1	50.00
4	cis-9,10-Epoxyoctadecanamide	142013	172995-07-2	47.00
5	Dodecanamide	60440	001120-16-7	46.00



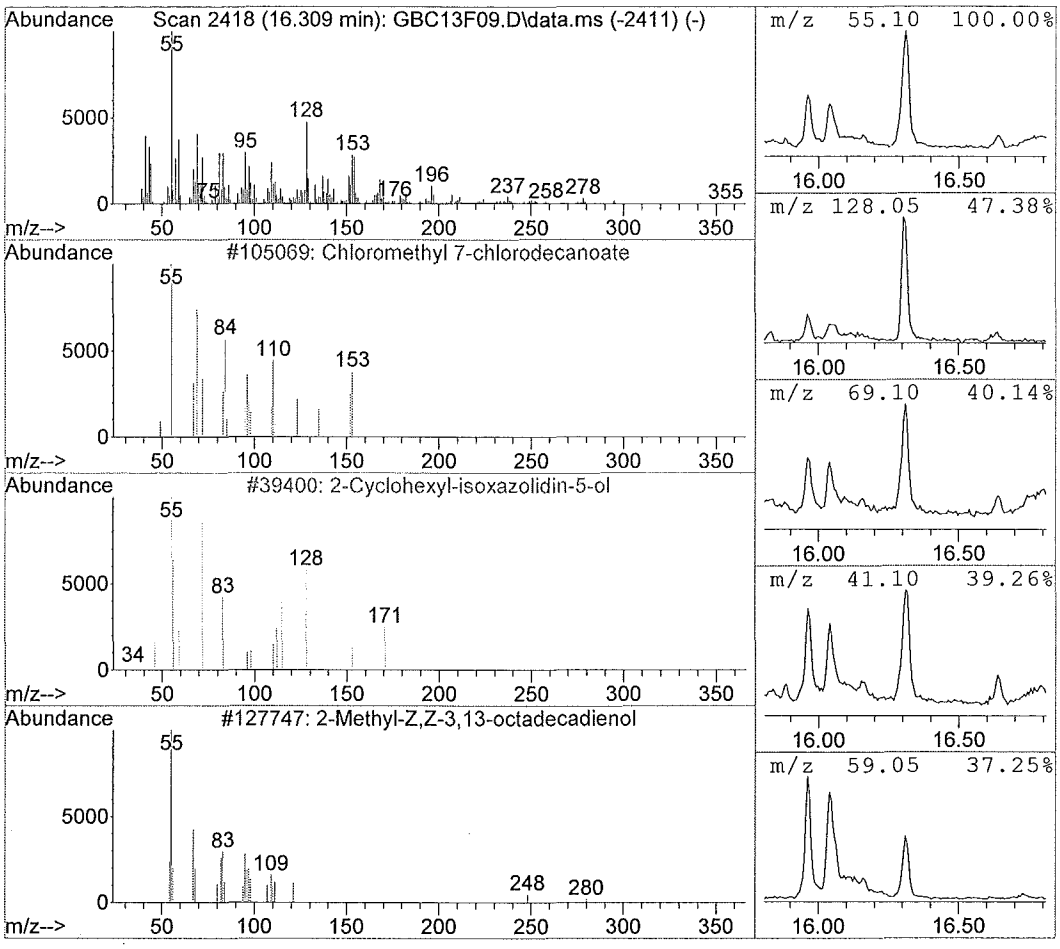
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.31	3.63 ug/ml	556647	Chrysene-d12	3068243

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Chloromethyl 7-chlorodecanoate	105069	080418-84-4	12.00
2	2-Cyclohexyl-isoxazolidin-5-ol	39400	052400-49-4	12.00
3	2-Methyl-Z,Z-3,13-octadecadienol	127747	1000130-90-5	10.00
4	2-(4-Nitrobutyryl)cyclooctanone	94695	079630-93-6	10.00
5	Cyclohexanecarboxamide	11823	001122-56-1	10.00



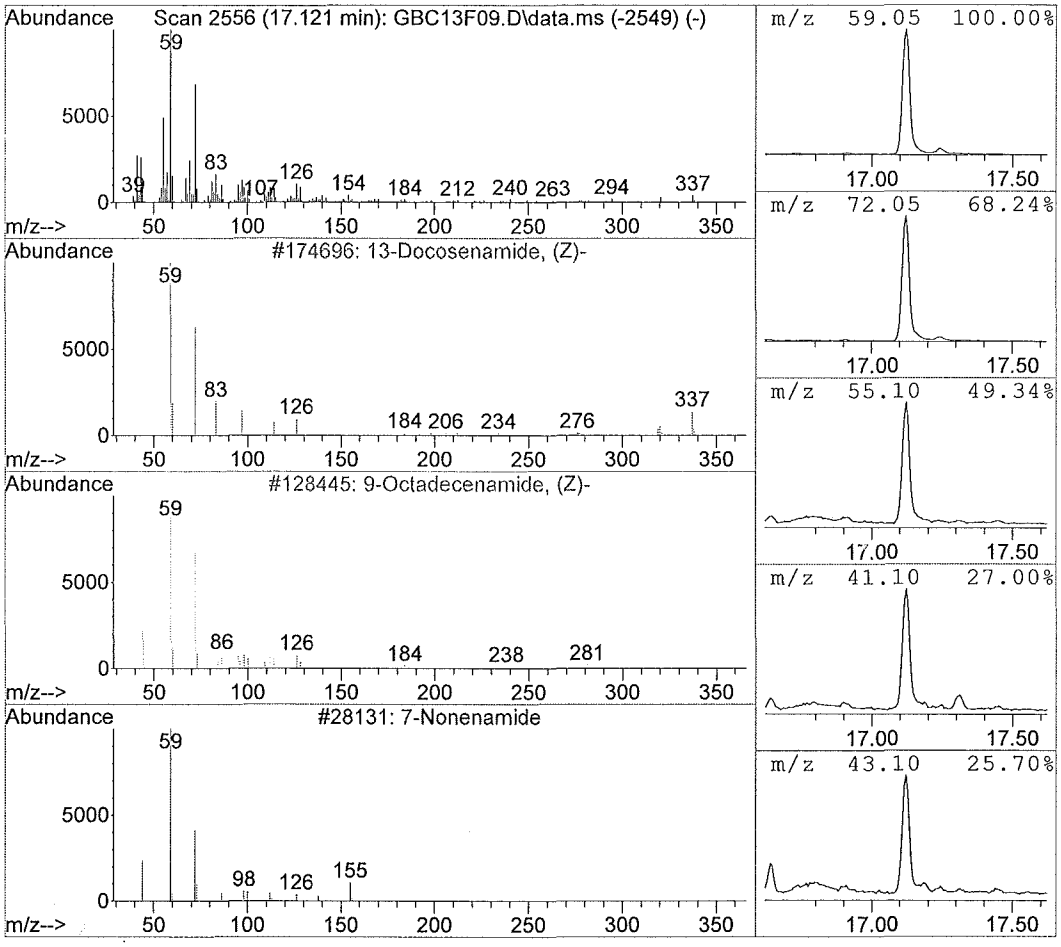
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	8.47 ug/ml	1298771	Perylene-d12	3065838

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174696	000112-84-5	95.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	90.00
3	7-Nonenamide	28131	090949-53-4	64.00
4	Octadecanamide	130204	000124-26-5	47.00
5	2-Hydroxy-2-methylundec-5-en-3-one	59566	1000191-46-2	35.00



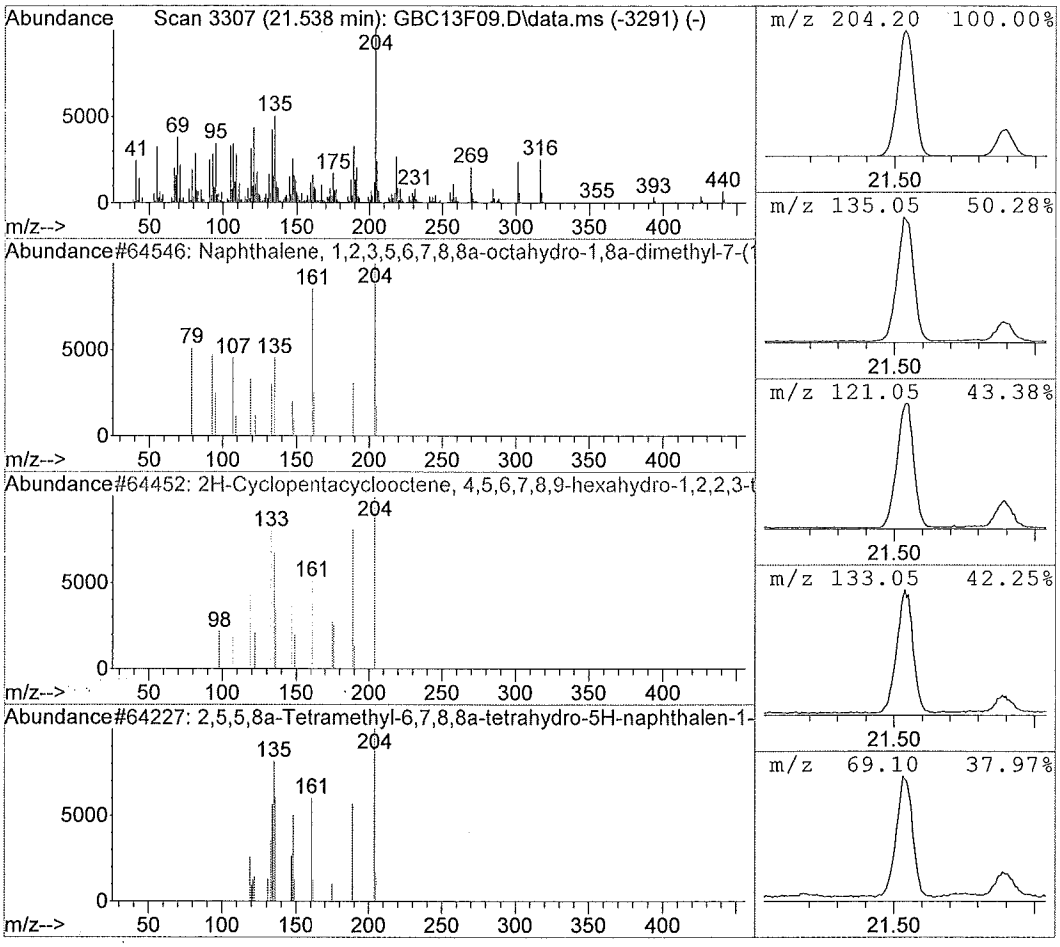
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	31.49 ug/ml	4826697	Perylene-d12	3065838

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	58.00
2	2H-Cyclopentacyclooctene, 4,5,6,7,8	64452	1000221-85-8	47.00
3	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	45.00
4	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	43.00
5	3H-3a,7-Methanoazulene, 2,4,5,6,7,8	64520	002387-78-2	42.00



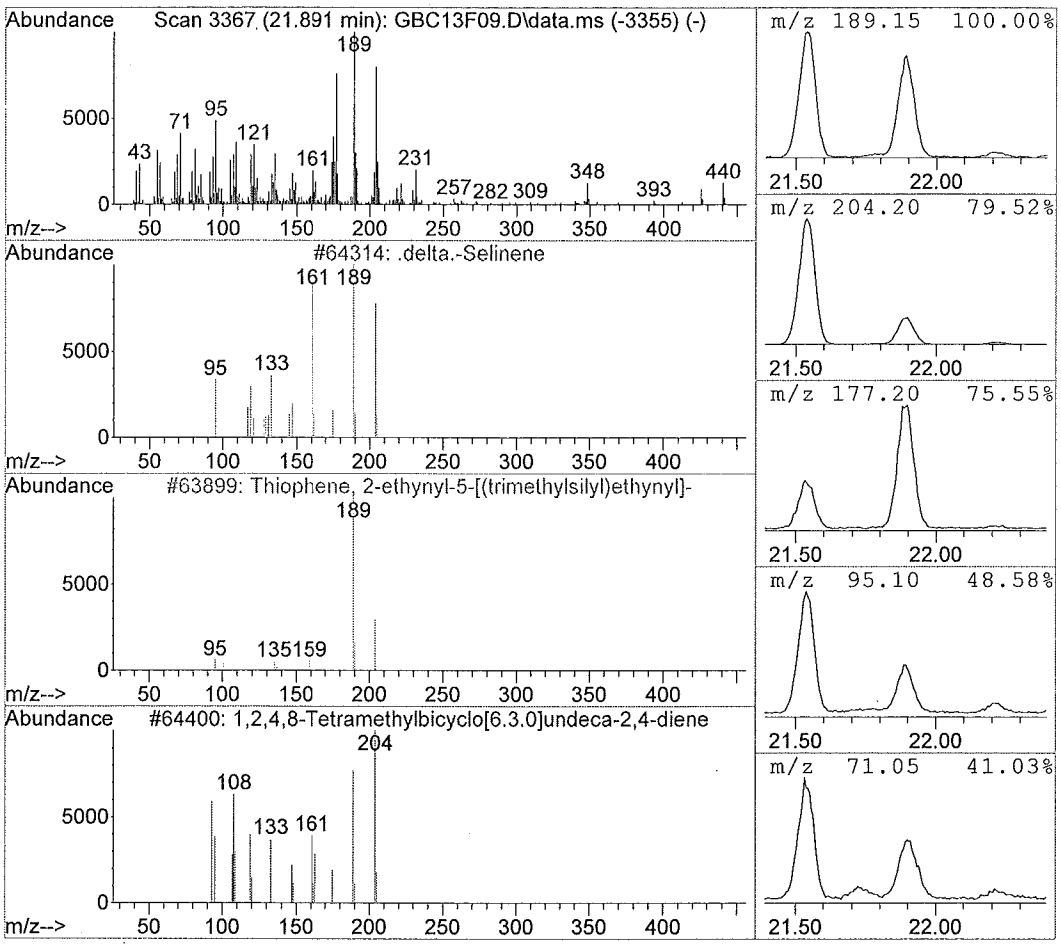
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.89	9.32 ug/ml	1428645	Perylene-d12	3065838

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	.delta.-Selinene	64314	028624-23-9	43.00
2	Thiophene, 2-ethynyl-5-[(trimethyls	63899	182323-29-1	43.00
3	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	38.00
4	3H-1,2-Dithiole-3-thione, 5-tert-bu	64748	013120-76-8	38.00
5	3,4-Dihydrocoumarin, 4,4,7,8-tetram	64130	040614-36-6	38.00



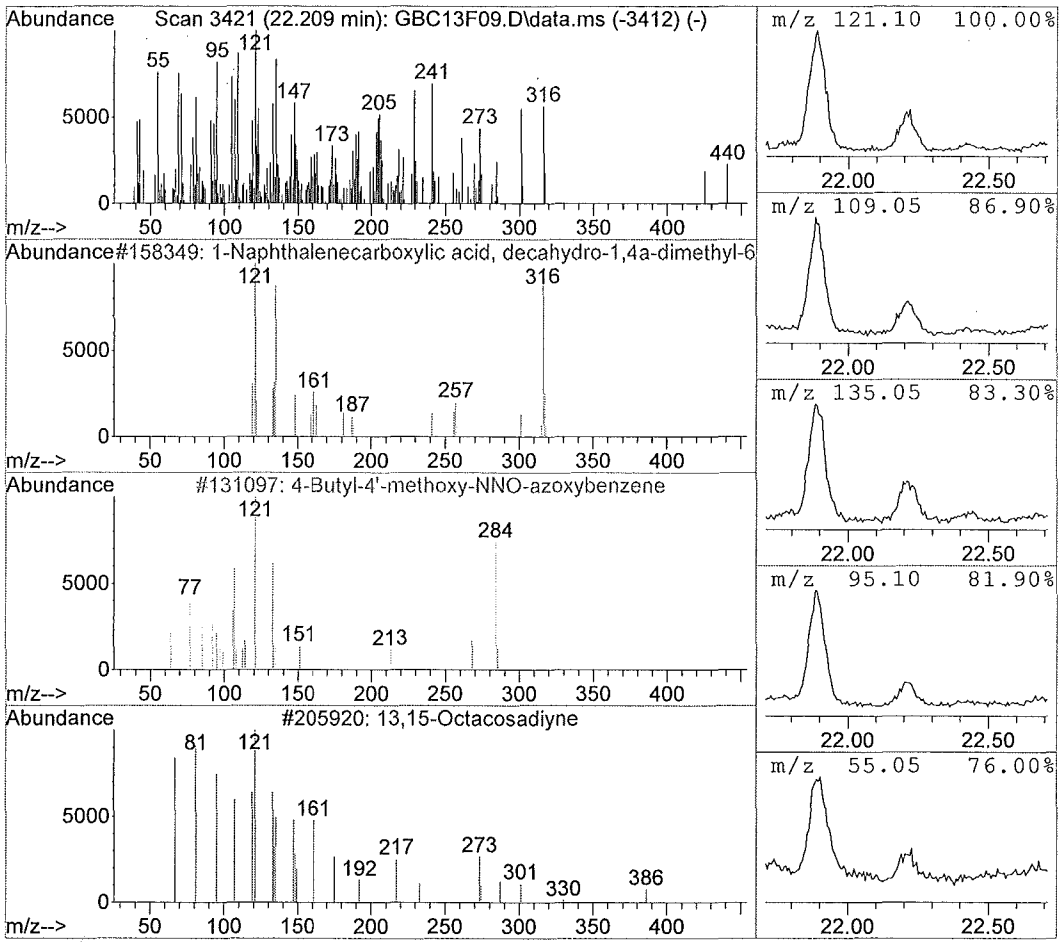
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.21	2.14 ug/ml	328513	Perylene-d12	3065838

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Naphthalenecarboxylic acid, decah	158349	001235-39-8	49.00
2	4-Butyl-4'-methoxy-NNO-azoxybenzene	131097	031401-36-2	41.00
3	13,15-Octacosadiyne	205920	024643-46-7	38.00
4	1-Hydroxymethyl-5,8,9-endo-10-exo-t	90922	1000140-32-9	38.00
5	1-Naphthalenecarboxylic acid, decah	158352	015798-13-7	38.00



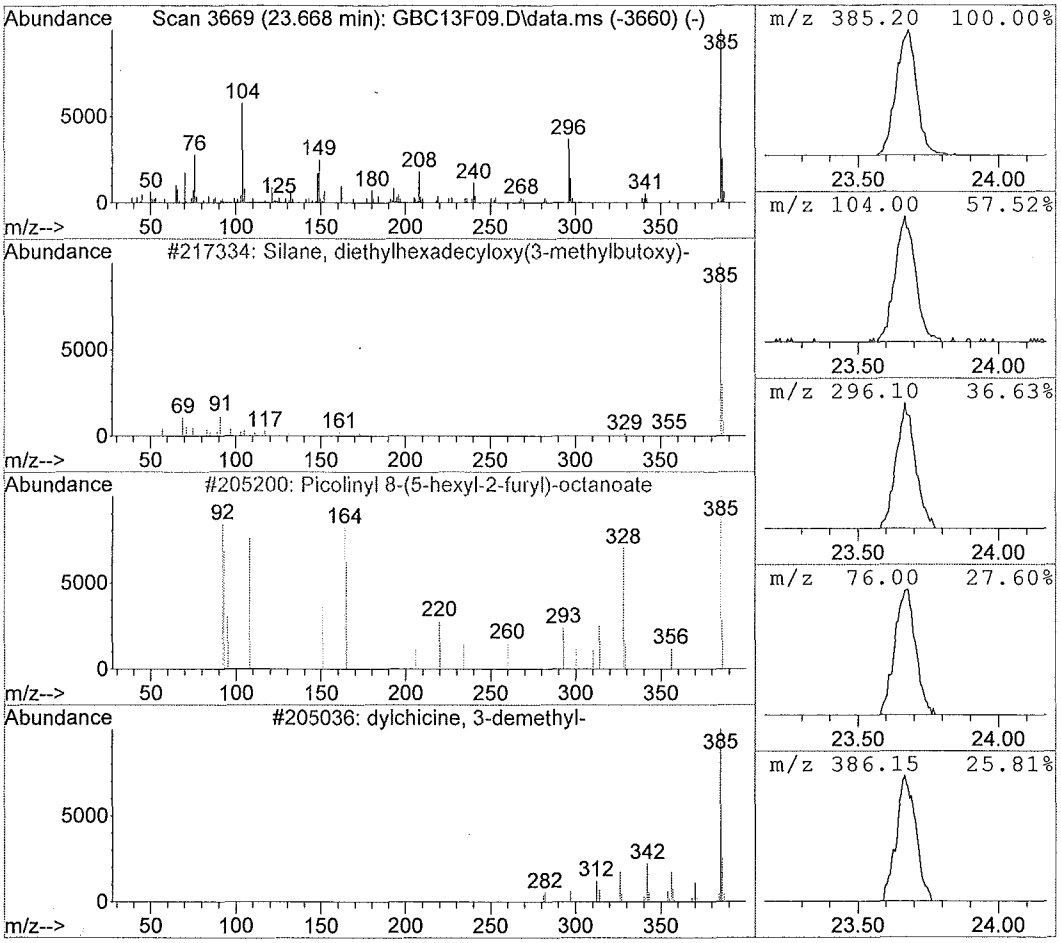
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	2.12 ug/ml	325714	Perylene-d12	3065838

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Silane, diethylhexadecyloxy(3-methy	217334	1000363-00-5	35.00
2	Picolinyl 8-(5-hexyl-2-furyl)-octan	205200	1000335-93-0	27.00
3	dylchicine, 3-demethyl-	205036	007336-34-7	25.00
4	Silane, diethyl(2-ethylbutoxy)penta	217336	1000363-43-4	25.00
5	Xanthine, 1,3-diethyl-8-[4-[[[ethyl	204982	104576-48-9	25.00



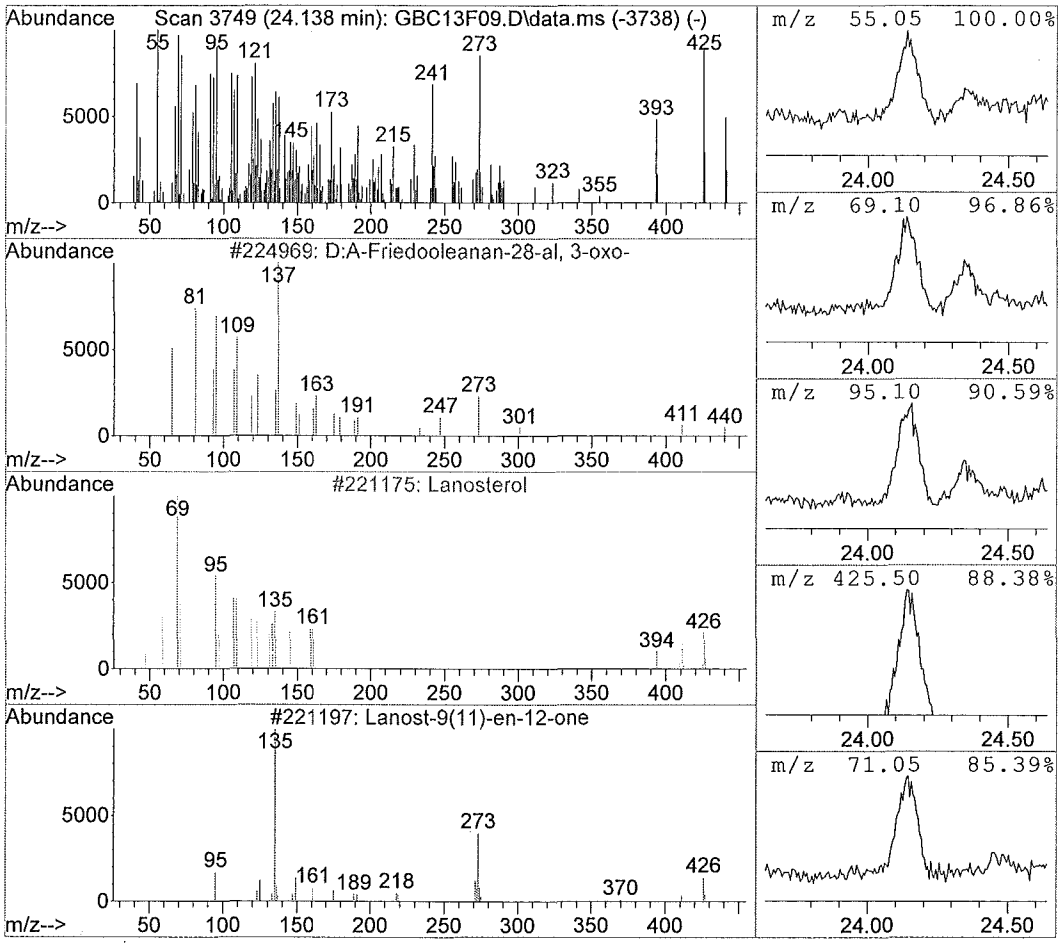
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	3.09 ug/ml	473171	Perylene-d12	3065838

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	D:A-Friedooleanan-28-al, 3-oxo-	224969	014440-40-5	32.00
2	Lanosterol	221175	000079-63-0	30.00
3	Lanost-9(11)-en-12-one	221197	052474-76-7	25.00
4	D:A-Friedooleanane-1,3-dione, 24-hy	228534	043230-65-5	25.00
5	Cholest-23-ene, (5.beta.)-	197224	030658-62-9	18.00



00277

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L67

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293012

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCM09F12

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/06/2015

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	200	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L67

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293012

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCM09F12

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/06/2015

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	34.	J
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	22.	J
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO:

F9L67

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293012

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCM09F12

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/06/2015

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Oxirane, butyl-	2.28	83.	J
02		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.50	7400	J
03		Unknown Isopropyl acetate	4.07	120	J
04		Unknown 1H-Pyrrole-2,5-dione	4.27	990	J
05		Unknown 4H-Imidazol-4-one, 2-amino-1,5-dihydro-	4.51	640	J
06		Unknown 2-Pentanone	4.59	520	J
07		Unknown Furan, tetrahydro-2-(methoxymethyl)-	4.98	100	J
08		Unknown 1,2,3-Propanetriol, 1-acetate	5.09	86.	J
09	1000336-31-4	Methyl 13-methyltetradecanoate	11.31	130	JN
10	6876-13-7	Bicyclo[3.1.1]heptane, 2,6,6-trimethyl-, (1.alph	11.72	170	JN
11	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	12.25	210	JN
12	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	12.32	120	JN
13	112-39-0	Hexadecanoic acid, methyl ester	12.40	290	JN
14	6929-04-0	Hexadecanoic acid, 15-methyl-, methyl ester	12.73	83.	JN
15		Unknown Nonanamide	12.76	100	J
16	2566-97-4	9,12-Octadecadienoic acid, methyl ester, (E,E)-	13.64	210	JN
17	1000333-61-3	trans-13-Octadecenoic acid, methyl ester	13.68	230	JN
18	56554-46-2	12-Octadecenoic acid, methyl ester	13.72	160	JN
19	112-61-8	Methyl stearate	13.83	92.	JN
20	1120-16-7	Dodecanamide	14.15	290	JN
21	301-02-0	9-Octadecenamide, (Z)-	15.07	1800	JNB
22	629-54-9	Hexadecanamide	15.17	91.	JN
23	172995-07-2	cis-9,10-Epoxyoctadecanamide	15.86	110	JN
24		Unknown Cyclohexanecarboxamide	16.20	160	J
25	959261-22-4	Pentafluoropropionic acid, tridecyl ester	16.60	180	JN
26	301-02-0	9-Octadecenamide, (Z)-	16.98	250	JN
27		Unknown Squalene	17.16	120	J
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	1400	J

[2] EPA-designated Registry Number.

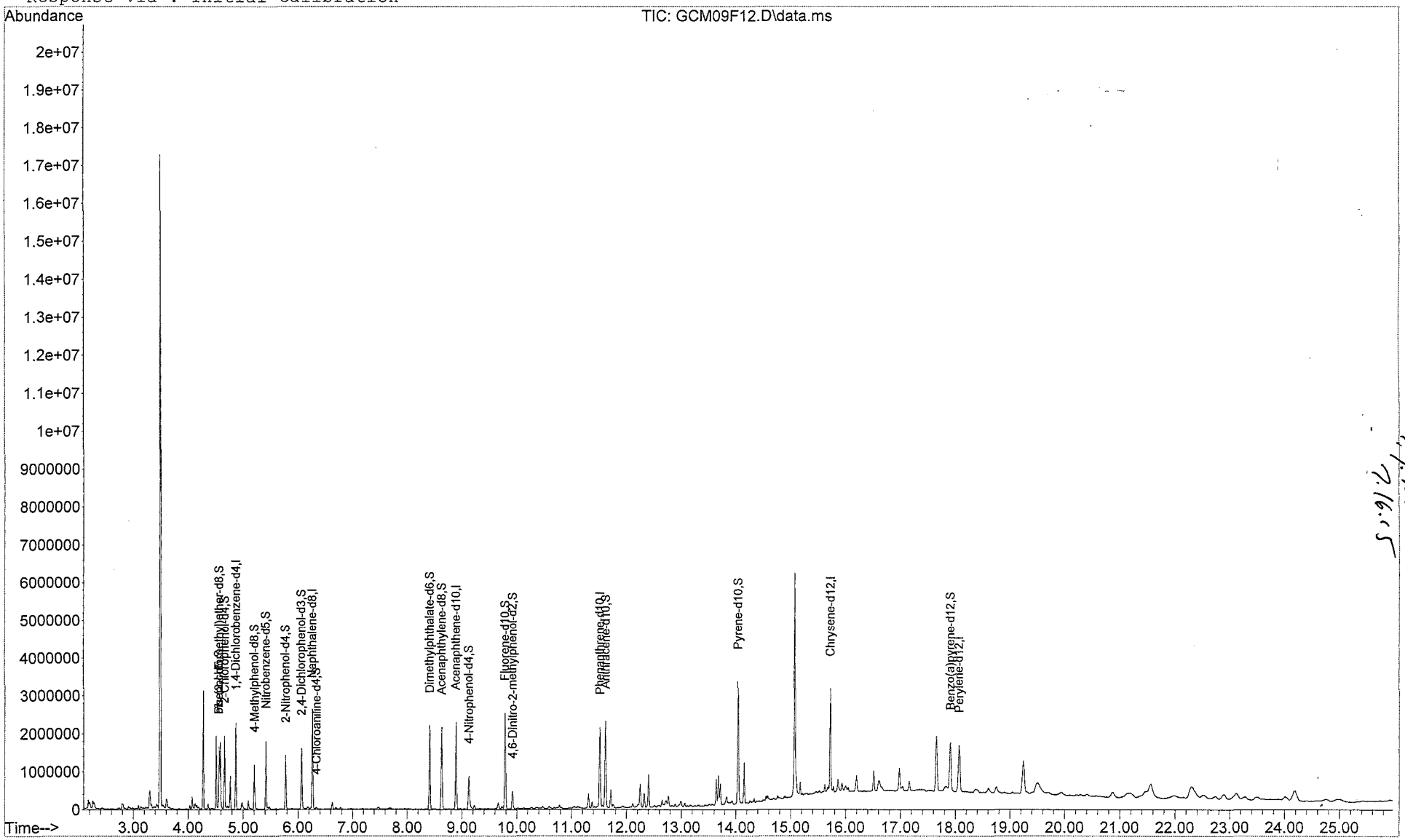
Quantitation Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D
Acq On : 07/06/2015 19:01
Sample : 1514293012 F9L67
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 16
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 15 14:13:53 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration



2.16.15

Quantitation Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 15 14:13:53 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	321208	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1233275	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	707046	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1178437	20.00 ug/ml
73) Chrysene-d12	15.72	240	1129696	20.00 ug/ml
81) Perylene-d12	18.07	264	896489	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.56	99	437583	15.655ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	365560	16.782ug/mL
7) 2-Chlorophenol-d4	4.66	132	448555	19.006ug/ml
13) 4-Methylphenol-d8	5.20	113	229978	12.301ug/mL
17) Nitrobenzene-d5	5.42	128	200485	18.505ug/ml
21) 2-Nitrophenol-d4	5.77	143	222676	19.445ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	364717	20.454ug/mL
28) 4-Chloroaniline-d4	6.33	131	21397	1.099ug/mL
42) Dimethylphthalate-d6	8.41	166	1110696	25.052ug/mL
45) Acenaphthylene-d8	8.63	160	1318730	21.887ug/mL
50) 4-Nitrophenol-d4	9.13	143	189482	20.949ug/mL
57) Fluorene-d10	9.79	176	916770	24.213ug/mL
61) 4,6-Dinitro-2-methylphenol	9.92	200	75771	9.059ug/mL
69) Anthracene-d10	11.62	188	1370834	21.936ug/mL
75) Pyrene-d10	14.04	212	1351488	23.972ug/mL
86) Benzo(a)pyrene-d12	17.91	264	901610	20.988ug/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)

00282

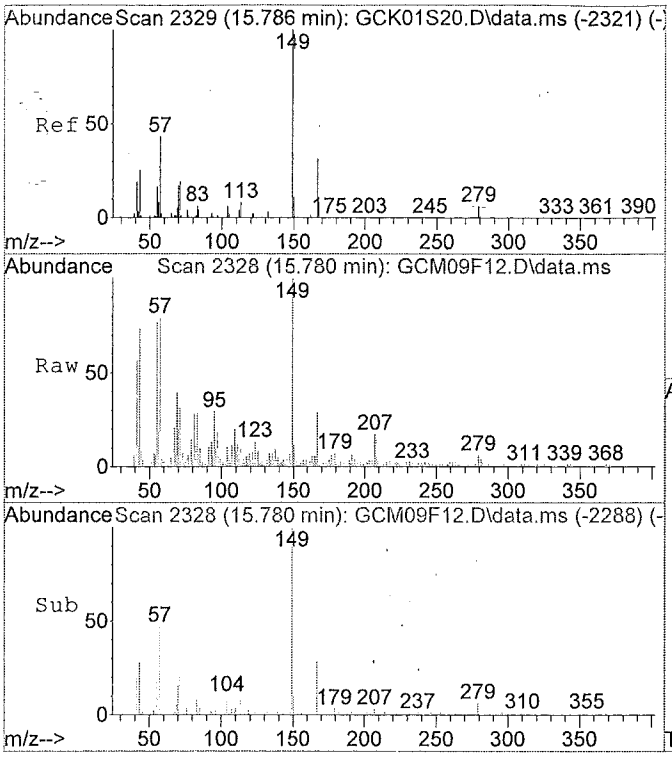
Quantitation Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 15 14:13:53 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 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	15.78	149	49115	0.879ug/ml	97
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	17.33	252	31343	0.558ug/ml	95
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	0.00	252		Not Detected	
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

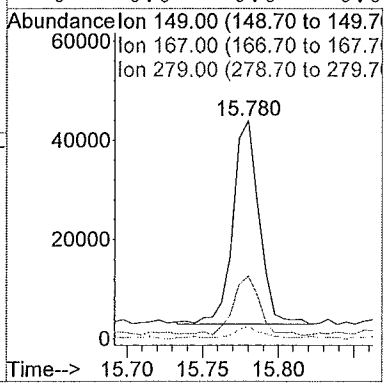
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

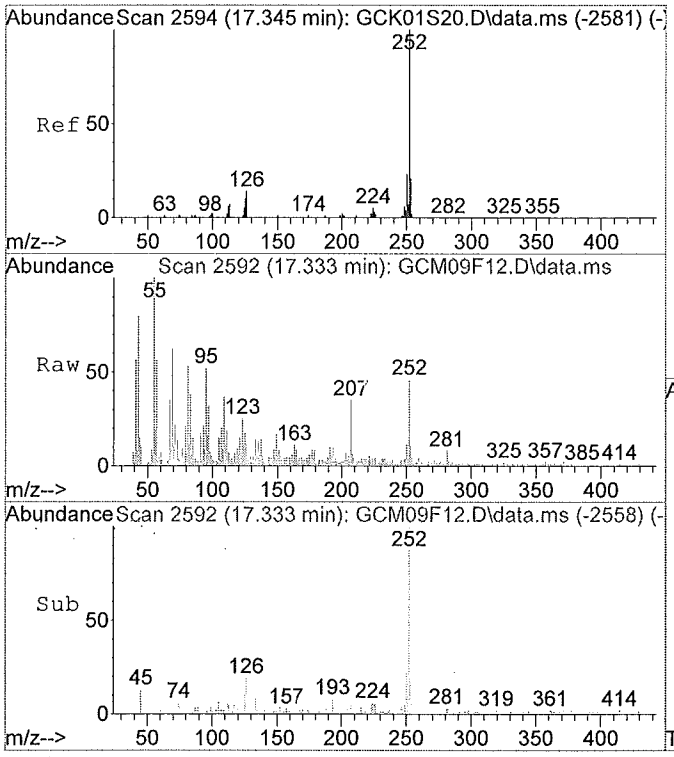


#80
Bis-(2-ethylhexyl)phthalate
Concen: 0.88 ug/ml
RT: 15.78 min Scan# 2328
Delta R.T. -0.06 min
Lab File: GCM09F12.D
Acq: 07/06/2015 19:01

Tgt Ion:149 Resp: 49115

Ion	Ratio	Lower	Upper
149	100		
167	30.3	22.0	40.8
279	5.4	5.0	9.2
0	0.0	0.0	0.0

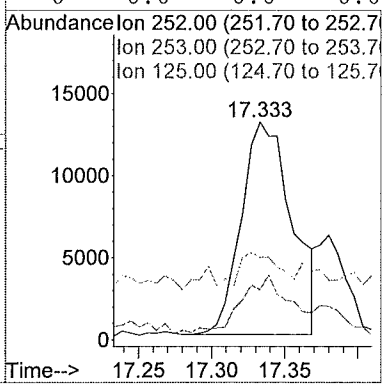




#83
Benzo(b)fluoranthene
Concen: 0.56 ug/ml
RT: 17.33 min Scan# 2592
Delta R.T. -0.09 min
Lab File: GCM09F12.D
Acq: 07/06/2015 19:01

Tgt Ion:252 Resp: 31343

Ion	Ratio	Lower	Upper
252	100		
253	25.0	15.1	28.1
125	14.0	10.6	19.8
0	0.0	0.0	0.0



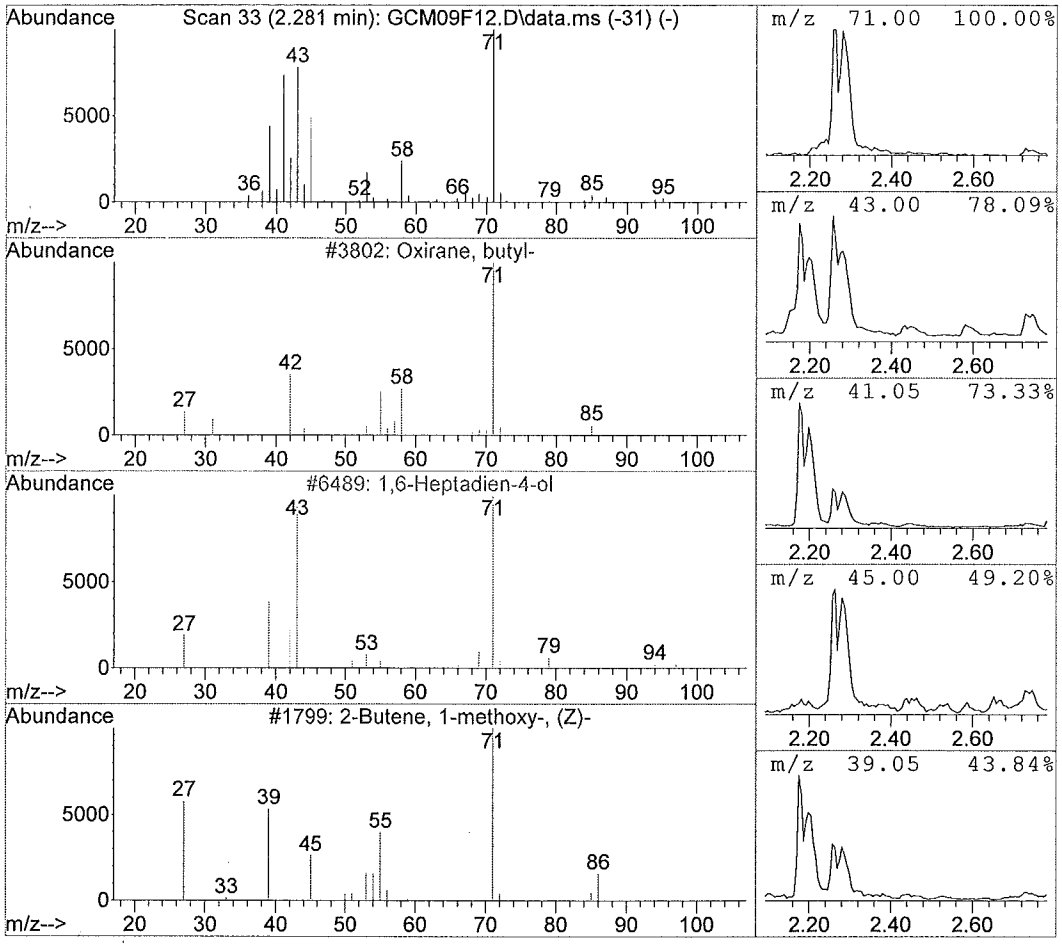
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.28	2.14 ug/ml	245118	1,4-Dichlorobenzene-d4	2296040

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Oxirane, butyl-	3802	001436-34-6	43.00
2	1,6-Heptadien-4-ol	6489	002883-45-6	38.00
3	2-Butene, 1-methoxy-, (Z)-	1799	010034-16-9	36.00
4	3-Penten-2-ol	1728	001569-50-2	33.00
5	2-Furanmethanol, tetrahydro-	4315	000097-99-4	32.00



00285

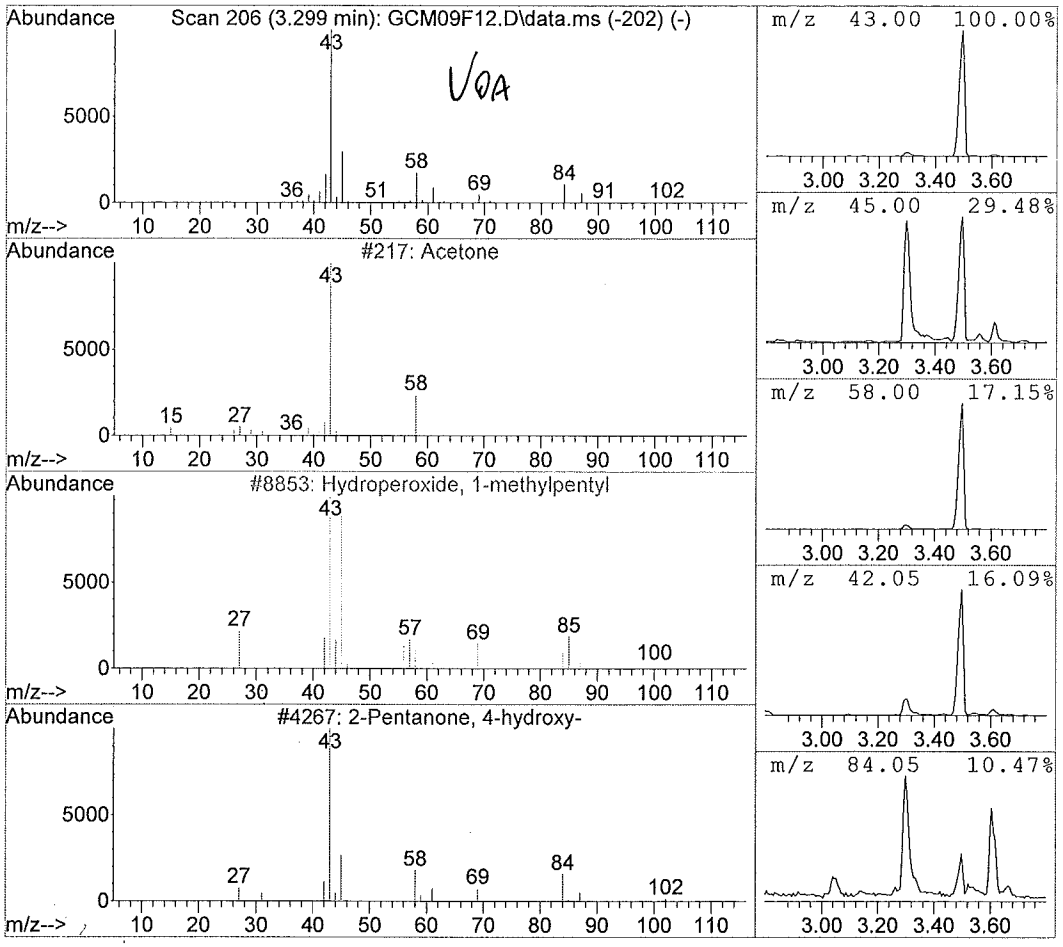
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.30	6.09 ug/ml	699534	1,4-Dichlorobenzene-d4	2296040

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Acetone	217	000067-64-1	35.00
2	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	33.00
3	2-Pentanone, 4-hydroxy-	4267	004161-60-8	33.00
4	Ethylamine	86	000075-04-7	9.00
5	Oxirane, trimethyl-	1747	005076-19-7	9.00



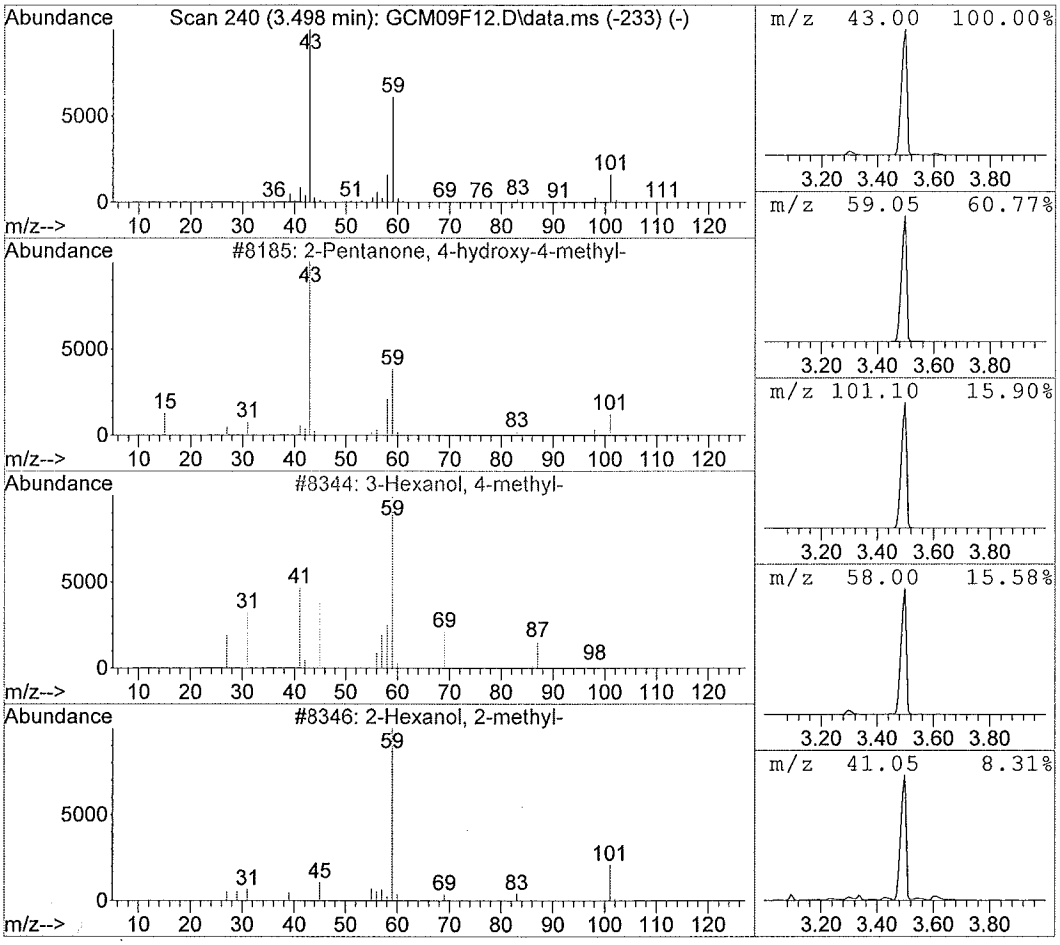
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.50	190.57 ug/ml	21877866	1,4-Dichlorobenzene-d4	2296040

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	42.00
2	3-Hexanol, 4-methyl-	8344	000615-29-2	33.00
3	2-Hexanol, 2-methyl-	8346	000625-23-0	28.00
4	Acetic acid, 1,1-dimethylethyl este	8205	000540-88-5	25.00
5	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	23.00



Library Search Compound Report

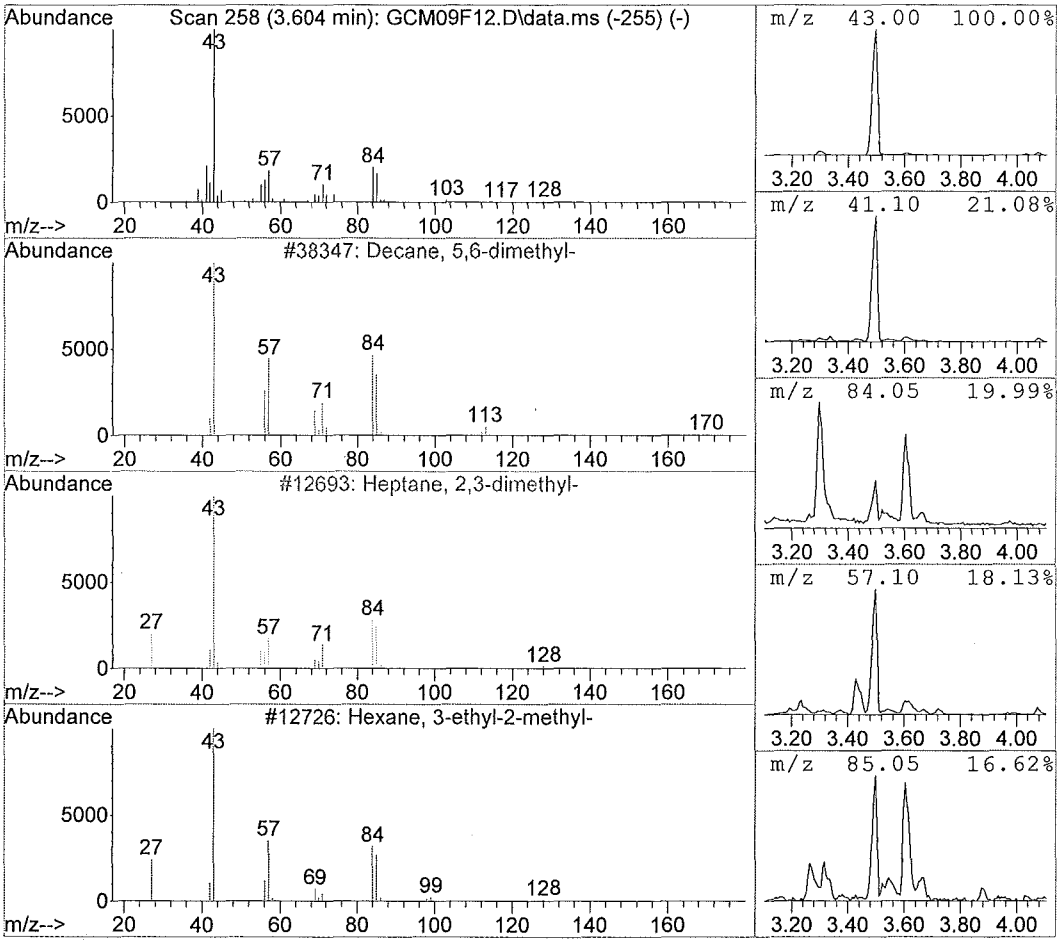
Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.60	3.55 ug/ml	407345	1,4-Dichlorobenzene-d4	2296040

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decane, 5,6-dimethyl-	38347	001636-43-7	78.00
2	Heptane, 2,3-dimethyl-	12693	003074-71-3	68.00
3	Hexane, 3-ethyl-2-methyl-	12726	016789-46-1	58.00
4	Nonane, 4-ethyl-5-methyl-	38351	001632-71-9	53.00
5	Octane, 4-methyl-	12674	002216-34-4	53.00

BA



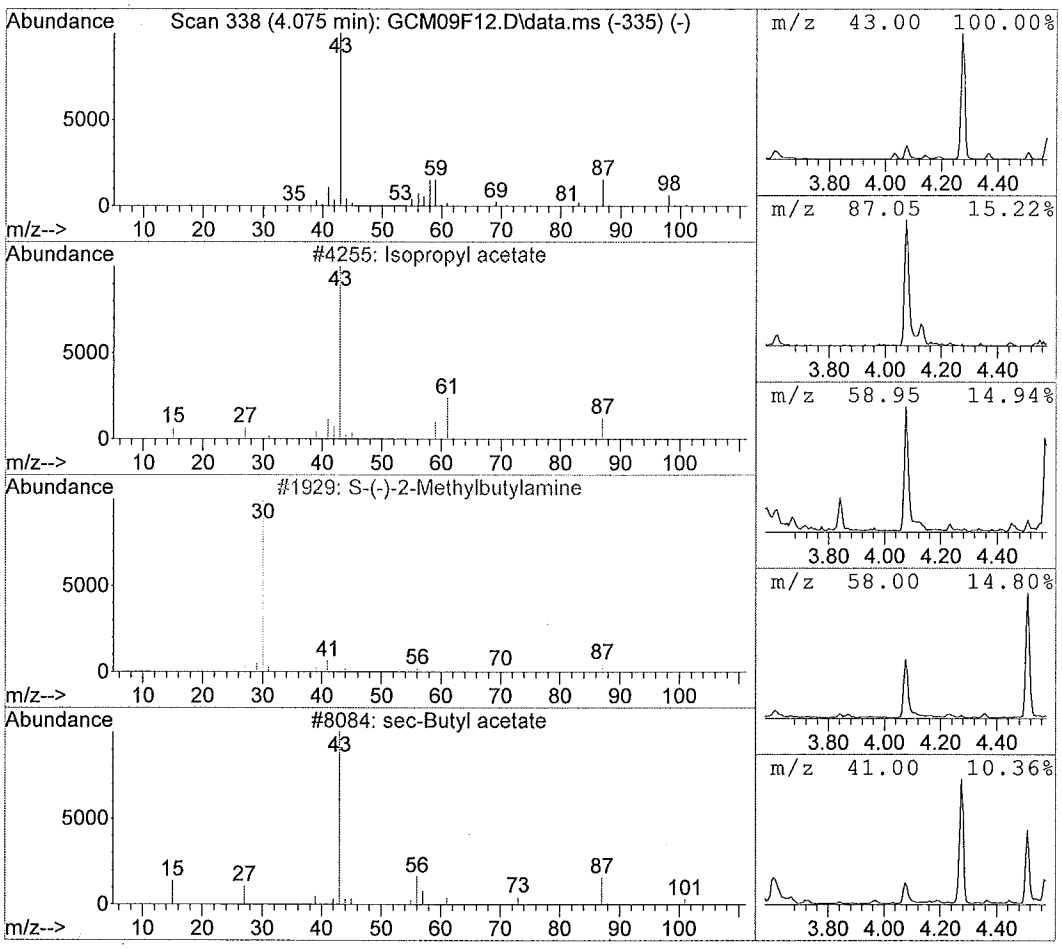
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.07	3.10 ug/ml	355613	1,4-Dichlorobenzene-d4	2296040

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Isopropyl acetate	4255	000108-21-4	25.00
2	S-(-)-2-Methylbutylamine	1929	020626-52-2	9.00
3	sec-Butyl acetate	8084	000105-46-4	9.00
4	TATP	79768	017088-37-8	9.00
5	1,1-Ethanediol, diacetate	21811	000542-10-9	9.00



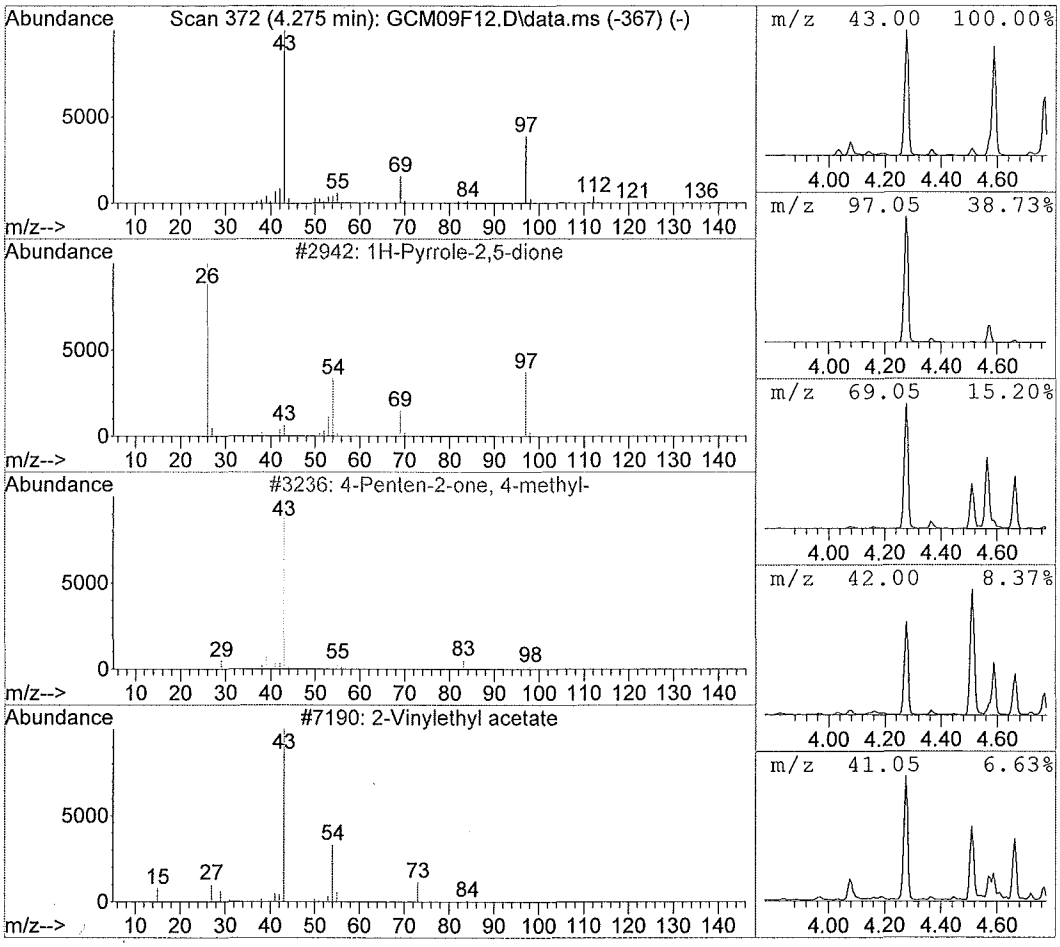
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.27	25.43 ug/ml	2919988	1,4-Dichlorobenzene-d4	2296040

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	40.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	2-Vinylethyl acetate	7190	001576-84-7	9.00
4	5-Hexen-2-one	3152	000109-49-9	9.00
5	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00



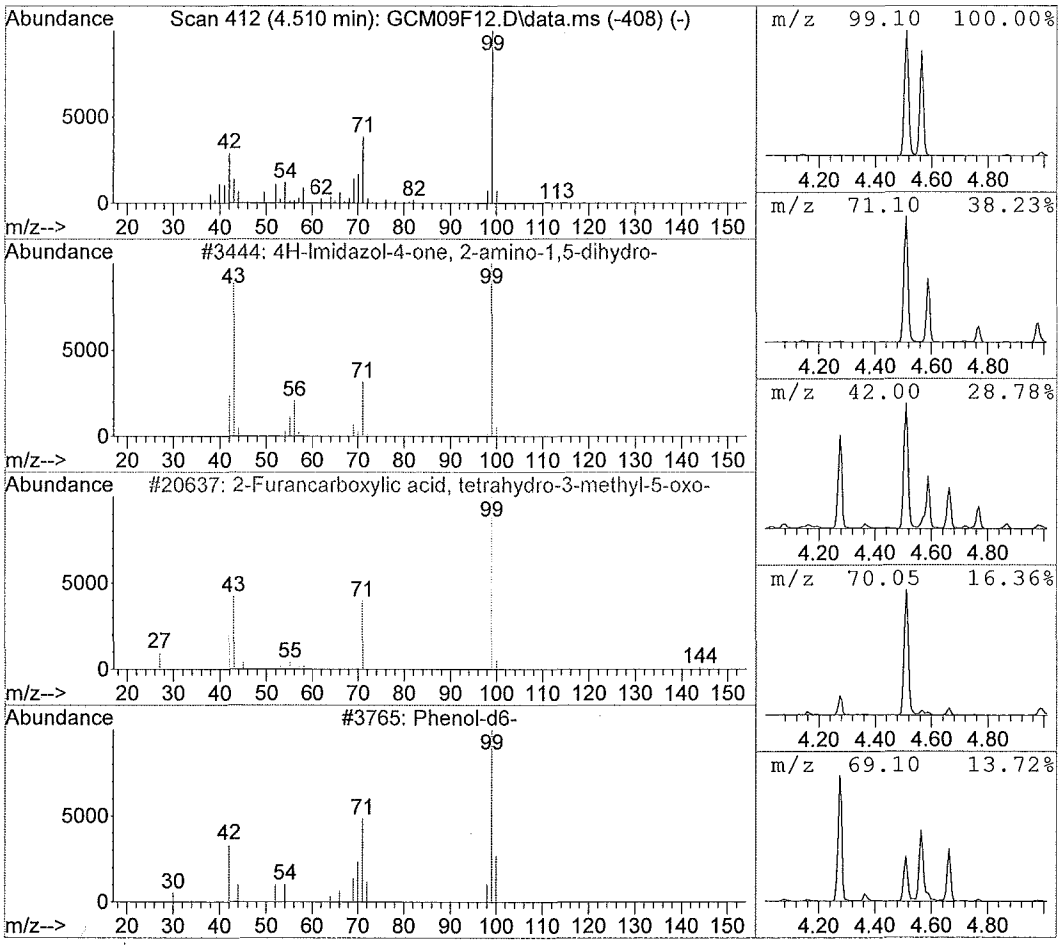
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.51	16.41 ug/ml	1883847	1,4-Dichlorobenzene-d4	2296040

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4H-Imidazol-4-one, 2-amino-1,5-dihy	3444	000503-86-6	80.00
2	2-Furancarboxylic acid, tetrahydro-	20637	022073-04-7	64.00
3	Phenol-d6-	3765	013127-88-3	56.00
4	2-Pyrrolidinone, 4-methyl-	3500	1000197-00-3	43.00
5	p-Nitrophenyl hexanoate	91291	000956-75-2	40.00



00291

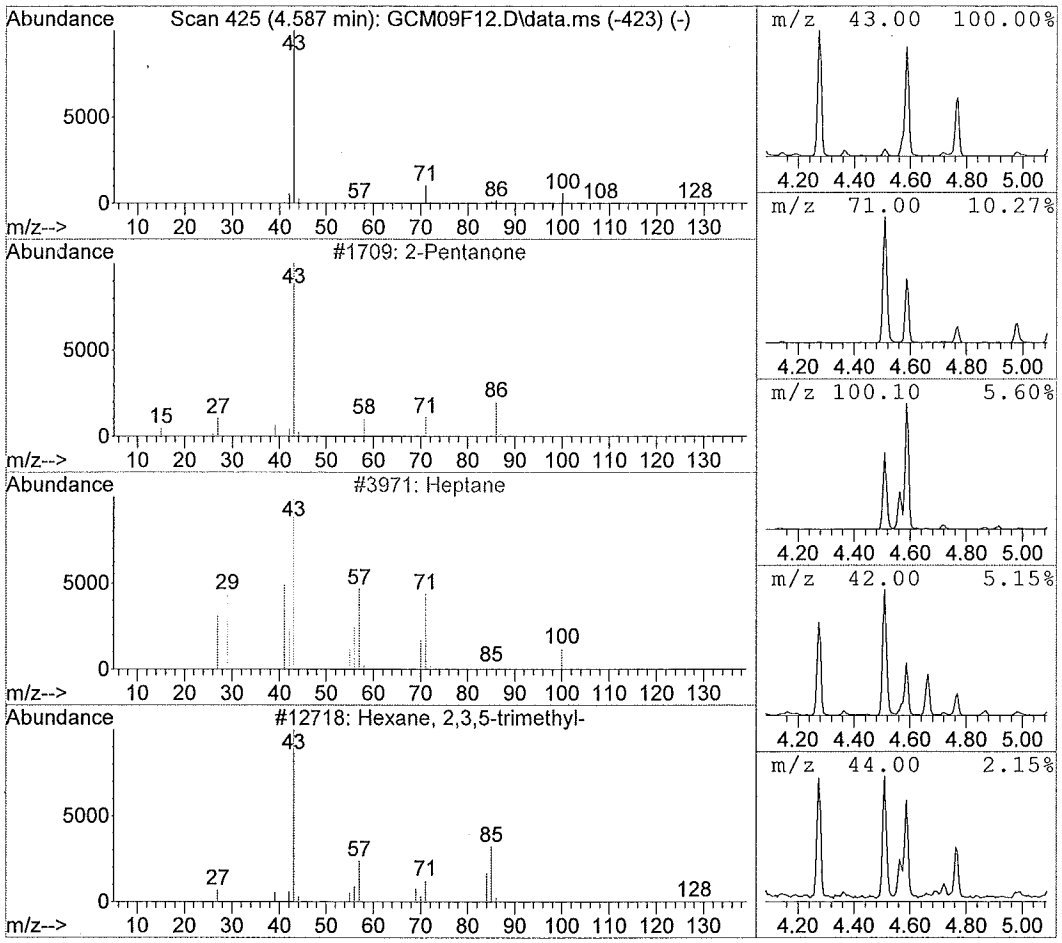
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.59	13.55 ug/ml	1555191	1,4-Dichlorobenzene-d4	2296040

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone	1709	000107-87-9	9.00
2	Heptane	3971	000142-82-5	7.00
3	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
4	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
5	1-Propen-2-ol, acetate	3687	000108-22-5	5.00



Library Search Compound Report

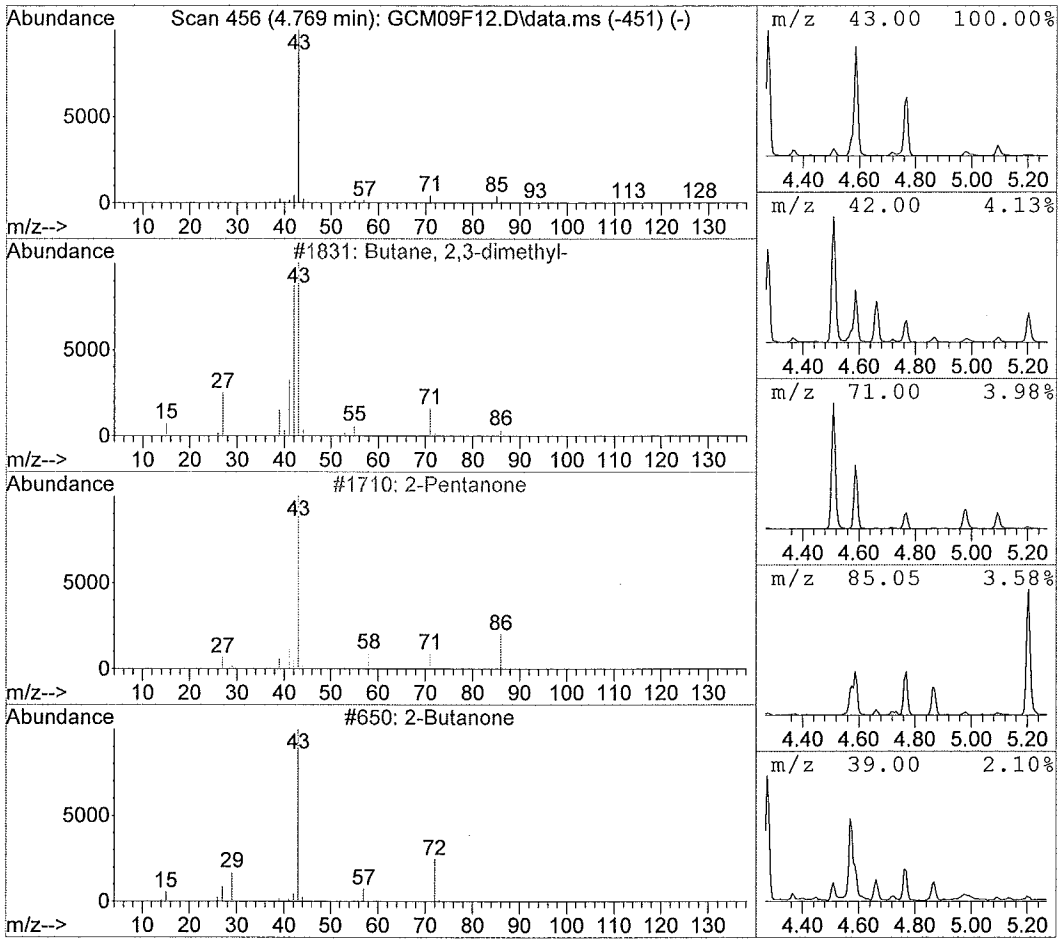
Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.77	7.58 ug/ml	869935	1,4-Dichlorobenzene-d4	2296040

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Butane, 2,3-dimethyl-	1831	000079-29-8	4.00
2	2-Pentanone	1710	000107-87-9	4.00
3	2-Butanone	650	000078-93-3	4.00
4	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	3.00
5	Propanal, 2-methyl-	689	000078-84-2	2.00

BA



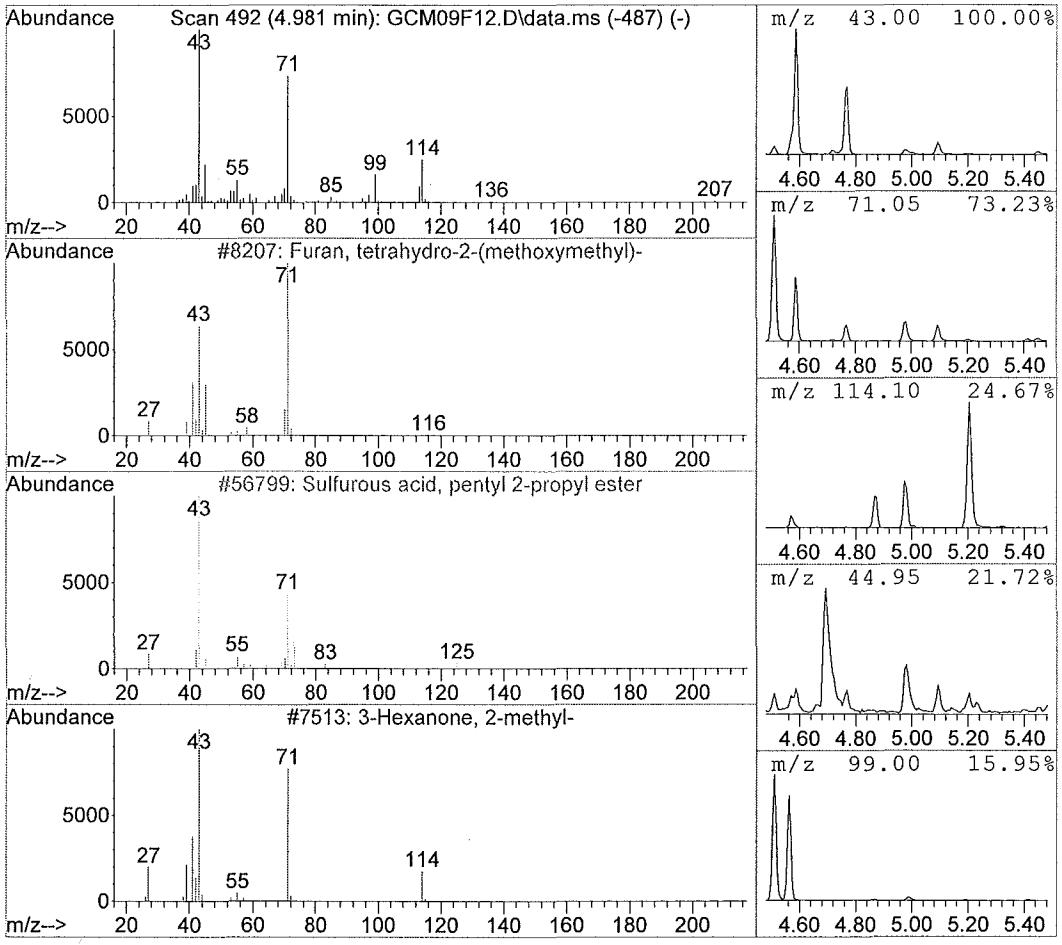
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.98	2.59 ug/ml	297801	1,4-Dichlorobenzene-d4	2296040

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Furan, tetrahydro-2-(methoxymethyl)	8207	019354-27-9	50.00
2	Sulfurous acid, pentyl 2-propyl est	56799	1000309-11-5	47.00
3	3-Hexanone, 2-methyl-	7513	007379-12-6	47.00
4	Ethyl 3-methyl-2-oxobutyrate	20665	020201-24-5	43.00
5	Butyric acid, neopentyl ester	30243	002050-00-2	43.00



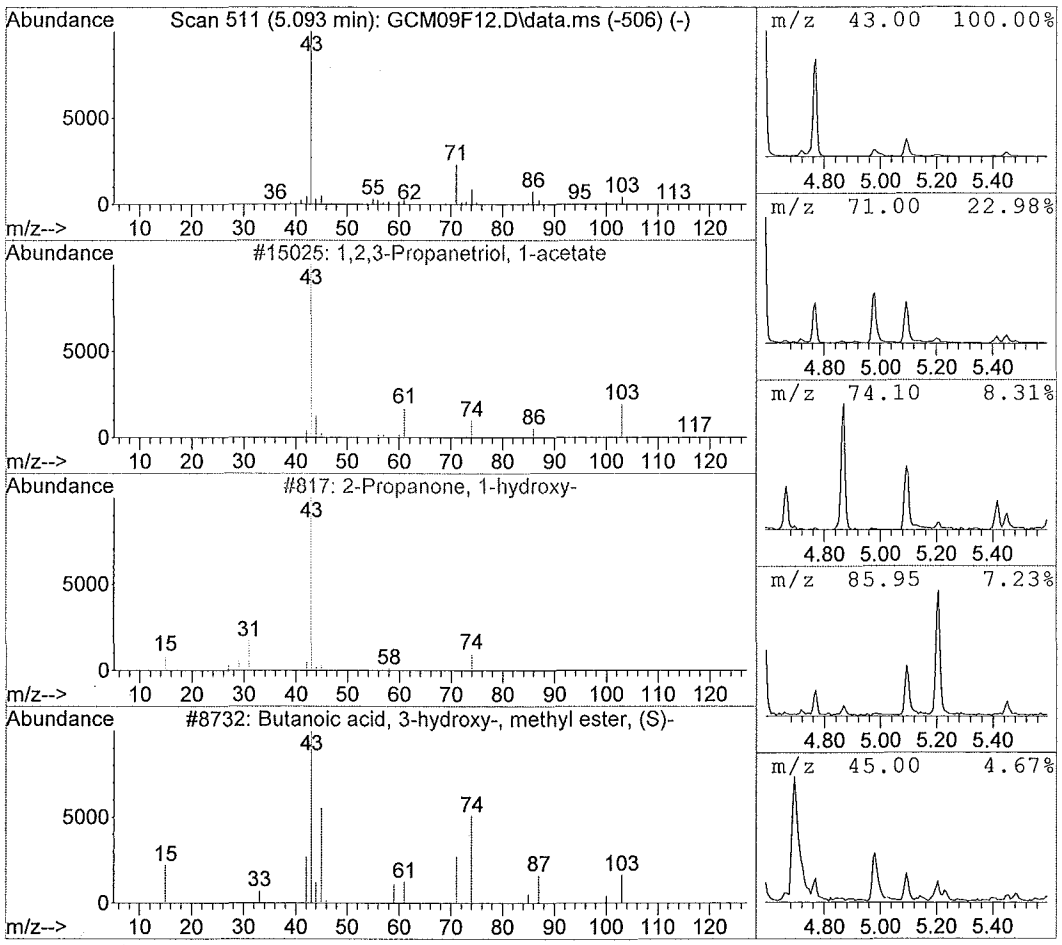
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.09	2.22 ug/ml	255239	1,4-Dichlorobenzene-d4	2296040

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	23.00
2	2-Propanone, 1-hydroxy-	817	000116-09-6	22.00
3	Butanoic acid, 3-hydroxy-, methyl e	8732	053562-86-0	12.00
4	(R)-(-)-Methyl 3-hydroxybutyrate	8707	003976-69-0	12.00
5	Diacetyl sulphide	8654	003232-39-1	10.00



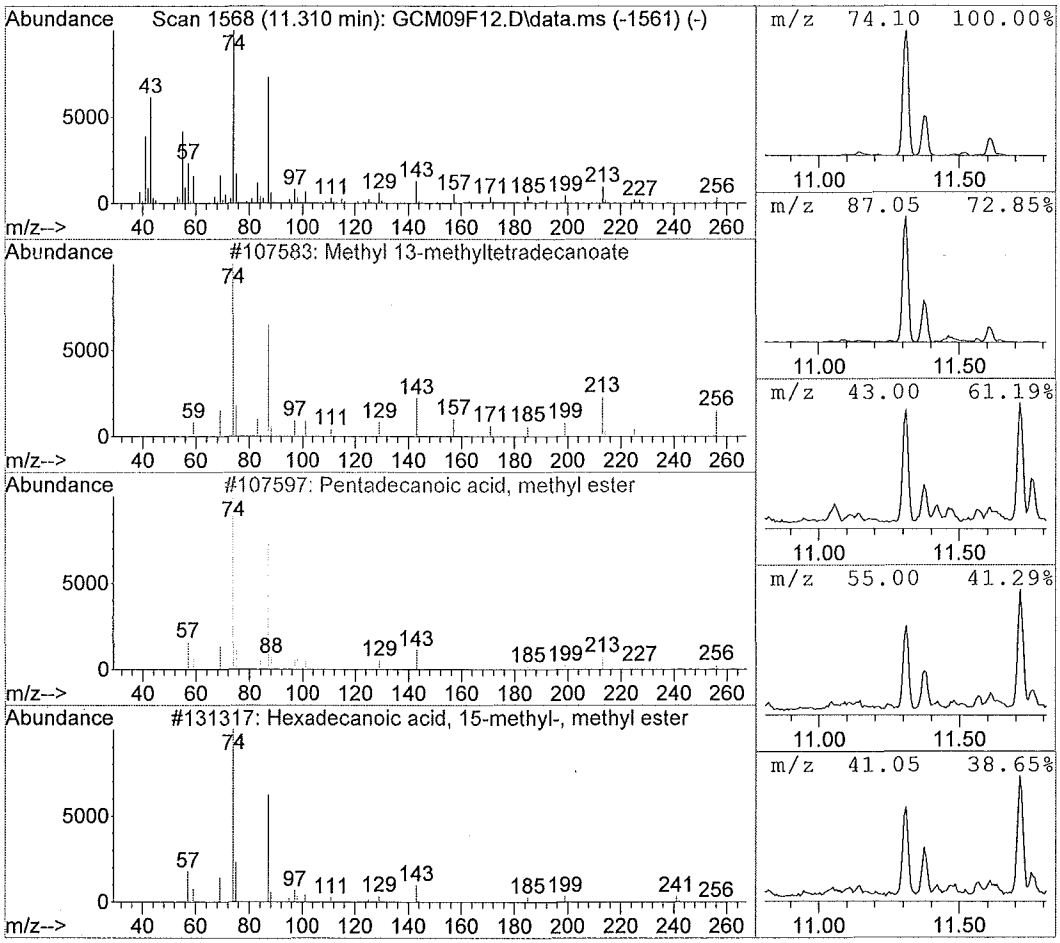
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.31	3.48 ug/ml	531921	Phenanthrene-d10	3055042

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methyl 13-methyltetradecanoate	107583	1000336-31-4	97.00
2	Pentadecanoic acid, methyl ester	107597	007132-64-1	93.00
3	Hexadecanoic acid, 15-methyl-, meth	131317	006929-04-0	83.00
4	Hexadecanoic acid, methyl ester	119408	000112-39-0	80.00
5	Tridecanoic acid, methyl ester	84485	001731-88-0	80.00



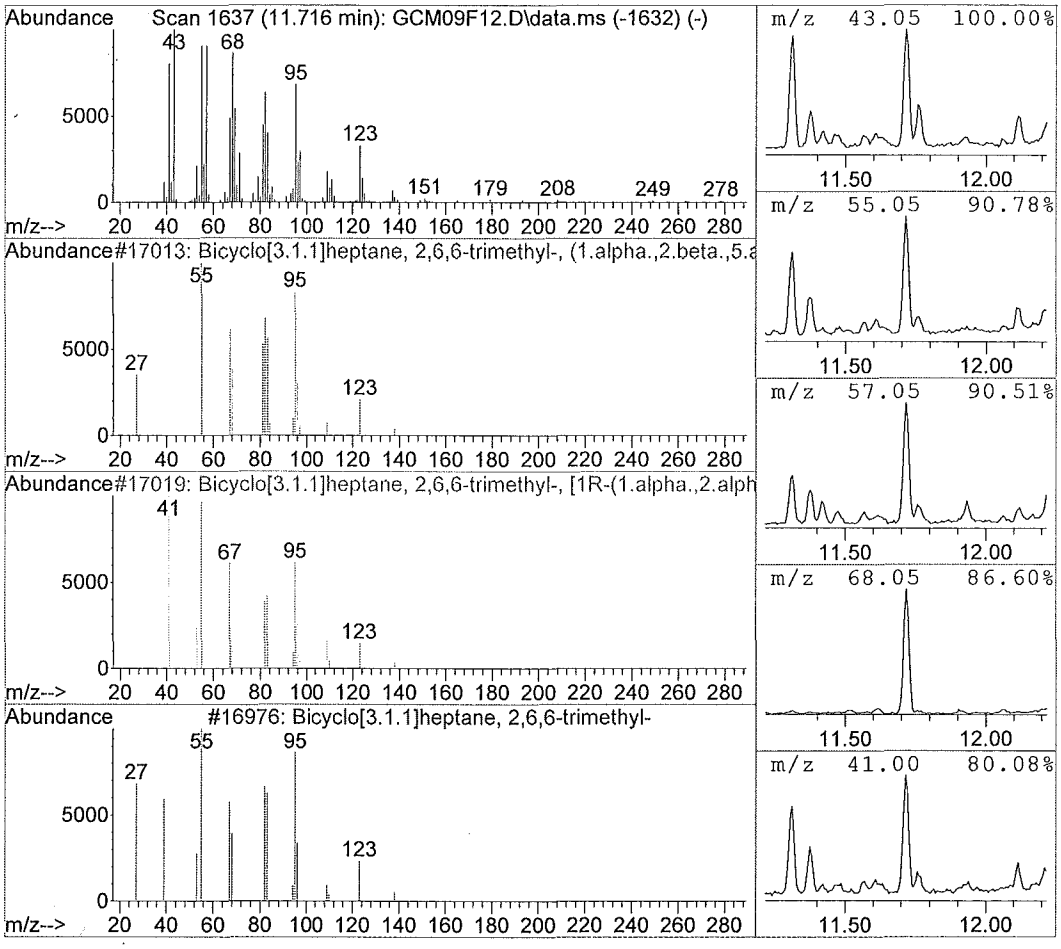
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.72	4.29 ug/ml	654633	Phenanthrene-d10	3055042

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Bicyclo[3.1.1]heptane, 2,6,6-trimet	17013	006876-13-7	91.00
2	Bicyclo[3.1.1]heptane, 2,6,6-trimet	17019	004863-59-6	87.00
3	Bicyclo[3.1.1]heptane, 2,6,6-trimet	16976	000473-55-2	64.00
4	Bicyclo[3.1.1]heptane, 2,6,6-trimet	17016	004795-86-2	60.00
5	Carbonic acid, isobutyl undec-10-en	119241	1000314-60-8	58.00



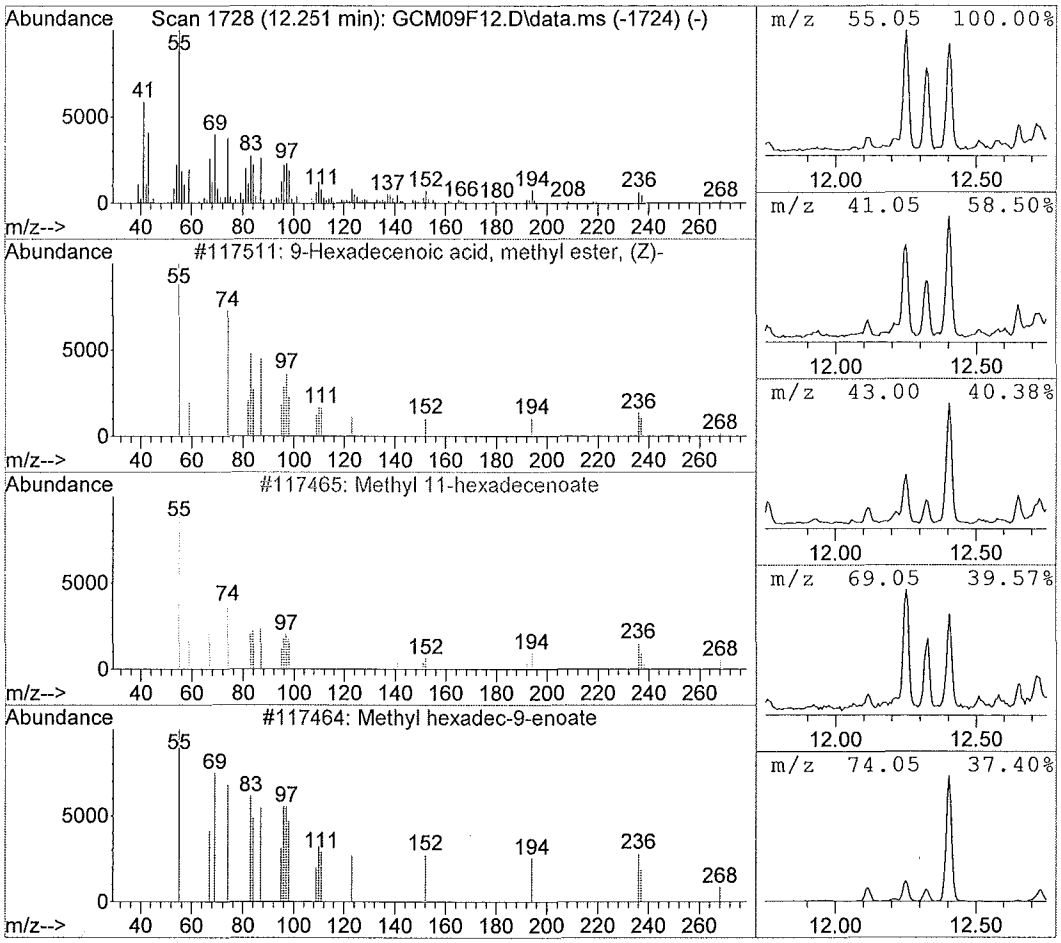
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.25	5.33 ug/ml	813923	Phenanthrene-d10	3055042

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Hexadecenoic acid, methyl ester,	117511	001120-25-8	96.00
2	Methyl 11-hexadecenoate	117465	1000336-35-5	93.00
3	Methyl hexadec-9-enoate	117464	010030-74-7	83.00
4	9-Octadecenoic acid (Z)-, methyl es	141303	000112-62-9	81.00
5	Cyclopropaneoctanoic acid, 2-hexyl-	129412	010152-61-1	72.00



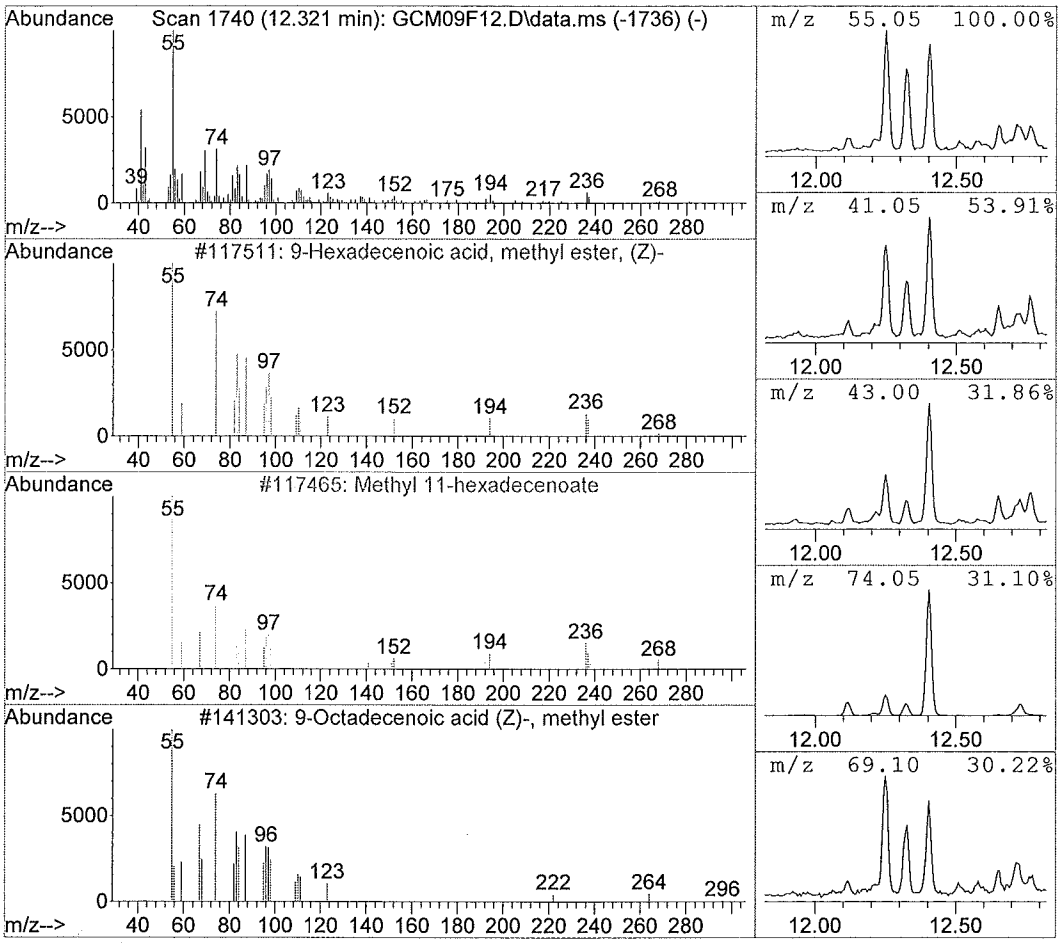
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.32	3.18 ug/ml	484995	Phenanthrene-d10	3055042

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Hexadecenoic acid, methyl ester,	117511	001120-25-8	97.00
2	Methyl 11-hexadecenoate	117465	1000336-35-5	94.00
3	9-Octadecenoic acid (Z)-, methyl es	141303	000112-62-9	83.00
4	E-11-Hexadecenoic acid, ethyl ester	129374	1000245-71-9	70.00
5	Hexadecenoic acid, Z-11-	105682	002416-20-8	68.00



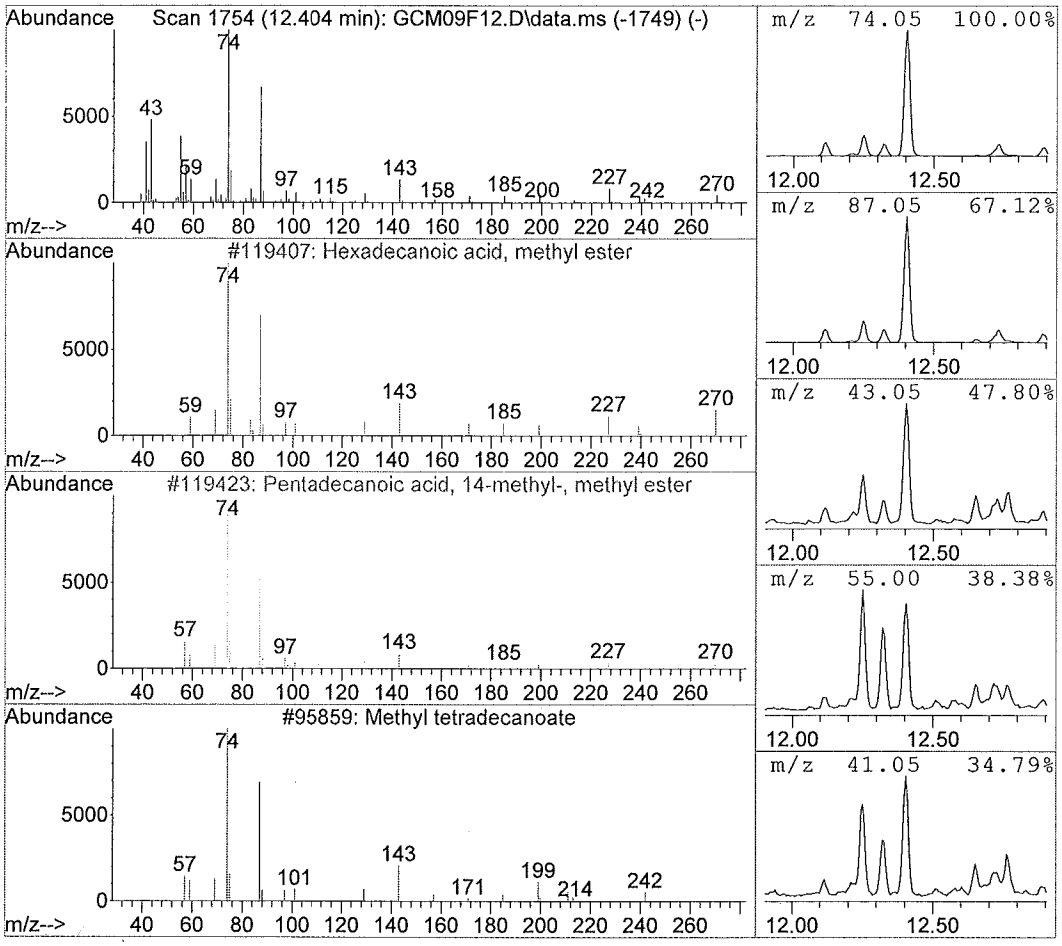
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.40	7.48 ug/ml	1142251	Phenanthrene-d10	3055042

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, methyl ester	119407	000112-39-0	97.00
2	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	95.00
3	Methyl tetradecanoate	95859	000124-10-7	91.00
4	Tridecanoic acid, methyl ester	84483	001731-88-0	87.00
5	Pentadecanoic acid, methyl ester	107596	007132-64-1	86.00



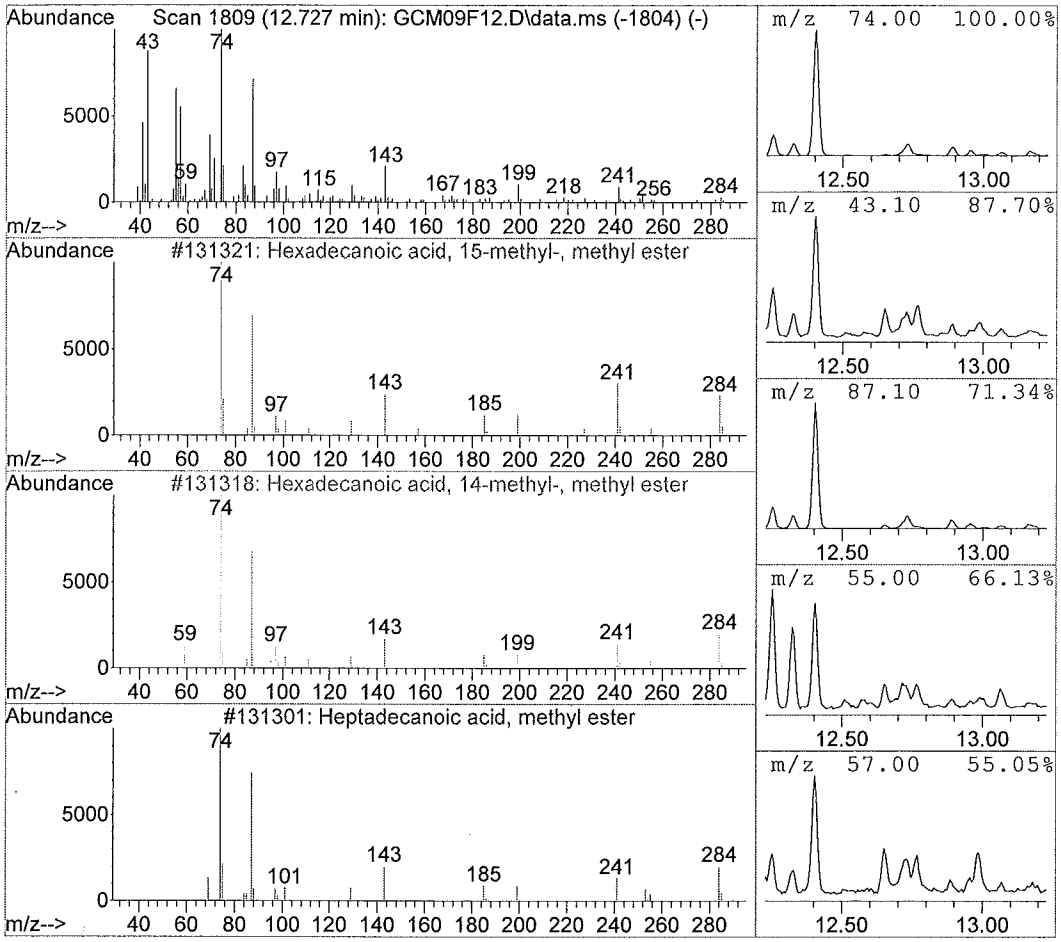
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.73	2.15 ug/ml	328482	Phenanthrene-d10	3055042

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, 15-methyl-, meth	131321	006929-04-0	93.00
2	Hexadecanoic acid, 14-methyl-, meth	131318	002490-49-5	93.00
3	Heptadecanoic acid, methyl ester	131301	001731-92-6	90.00
4	Methyl 13-methyltetradecanoate	107583	1000336-31-4	78.00
5	Dodecanoic acid, 10-methyl-, methyl	84513	005129-65-7	78.00



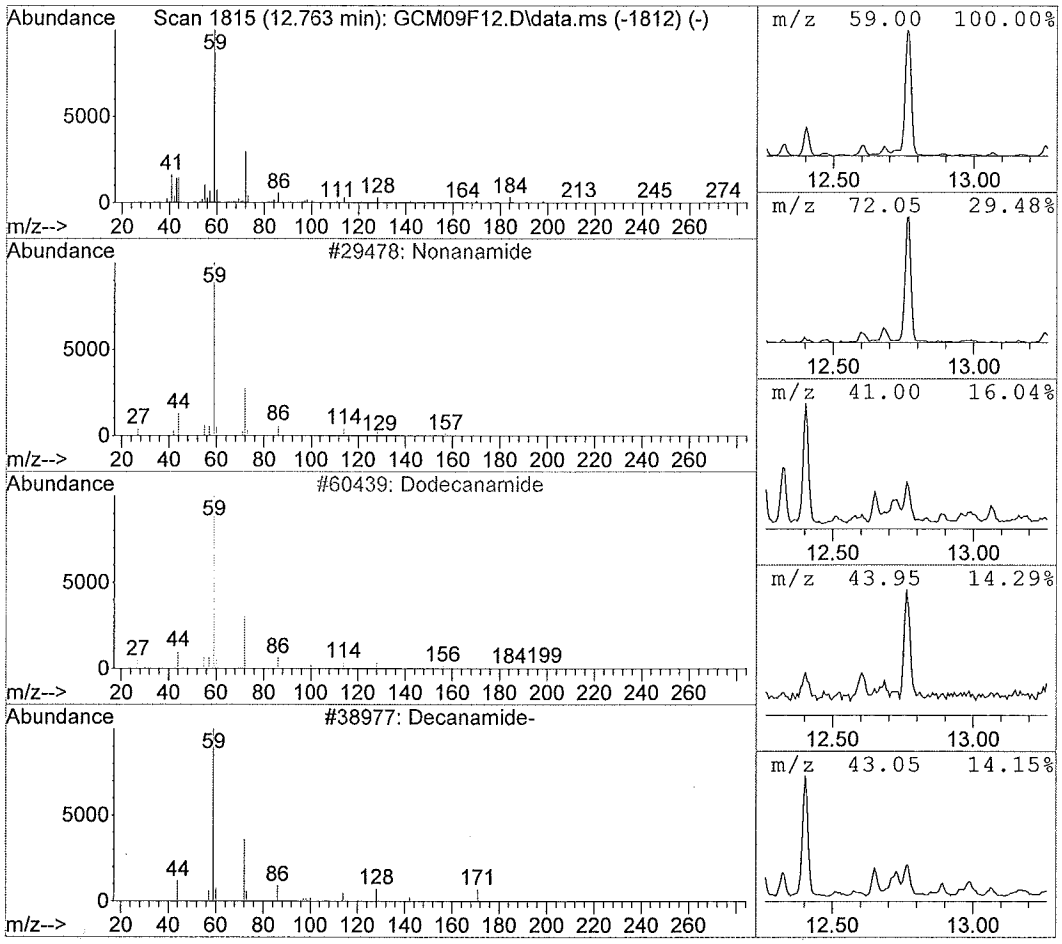
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.76	2.59 ug/ml	396361	Phenanthrene-d10	3055042

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonanamide	29478	001120-07-6	83.00
2	Dodecanamide	60439	001120-16-7	74.00
3	Decanamide-	38977	002319-29-1	74.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	56.00



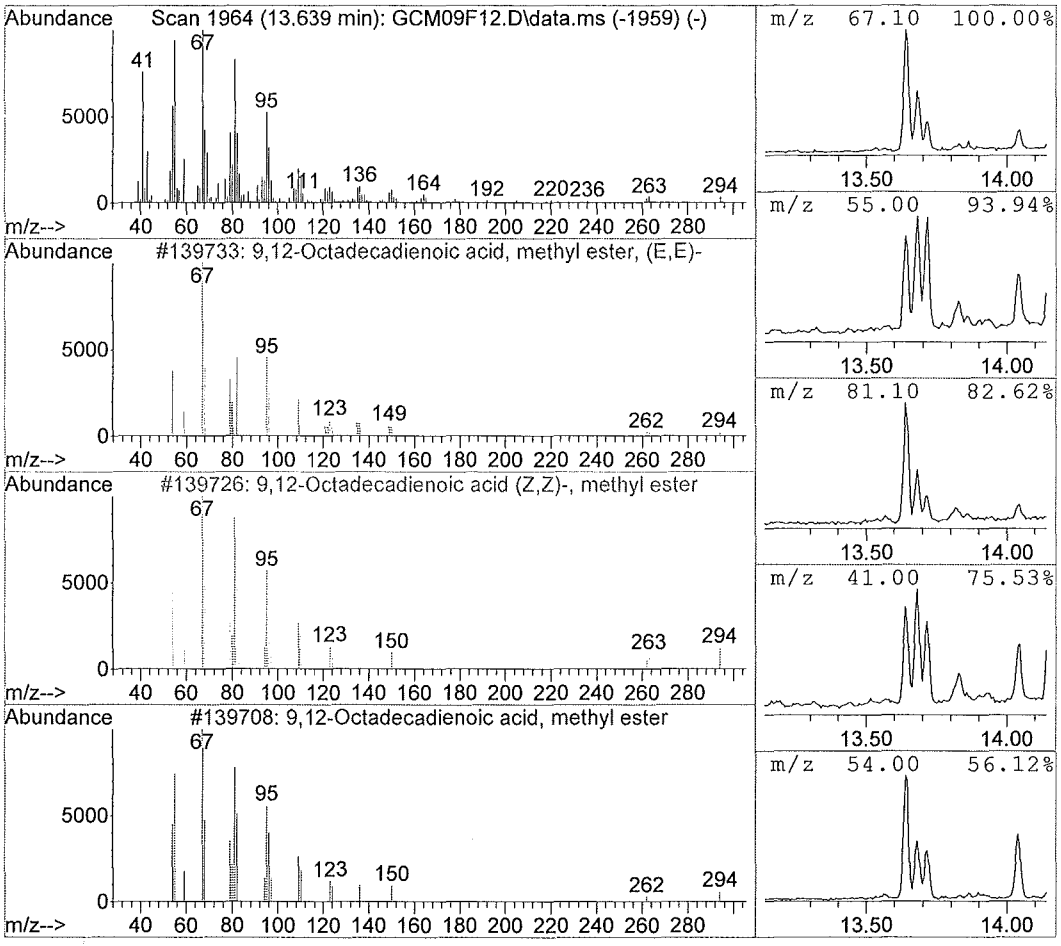
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.64	5.31 ug/ml	864969	Chrysene-d12	3255328

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9,12-Octadecadienoic acid, methyl e	139733	002566-97-4	99.00
2	9,12-Octadecadienoic acid (Z,Z)-, m	139726	000112-63-0	99.00
3	9,12-Octadecadienoic acid, methyl e	139708	002462-85-3	99.00
4	Methyl 10-trans,12-cis-octadecadien	139709	1000336-44-2	99.00
5	10,13-Octadecadienoic acid, methyl	139716	056554-62-2	99.00



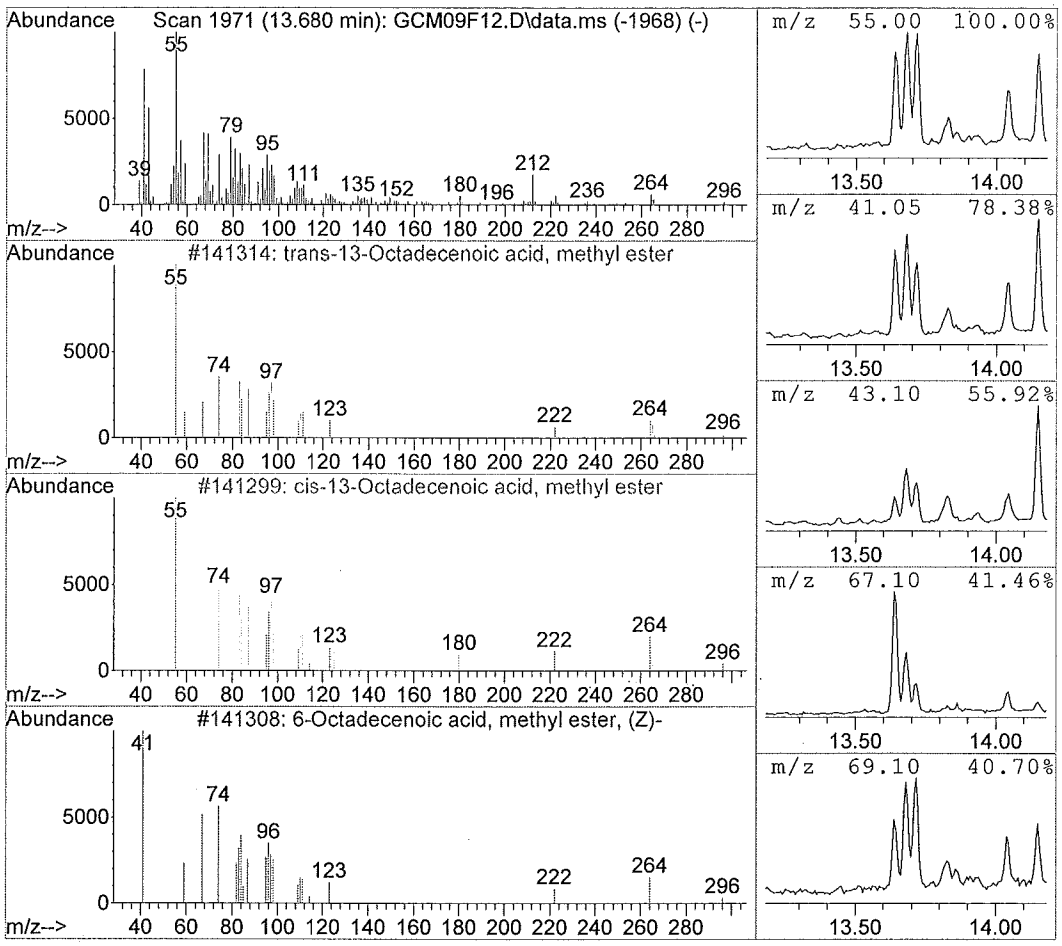
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.68	5.93 ug/ml	965945	Chrysene-d12	3255328

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	trans-13-Octadecenoic acid, methyl	141314	1000333-61-3	96.00
2	cis-13-Octadecenoic acid, methyl es	141299	1000333-58-3	94.00
3	6-Octadecenoic acid, methyl ester,	141308	002777-58-4	86.00
4	11-Octadecenoic acid, methyl ester	141281	052380-33-3	78.00
5	9-Octadecenoic acid (Z)-, methyl es	141303	000112-62-9	53.00



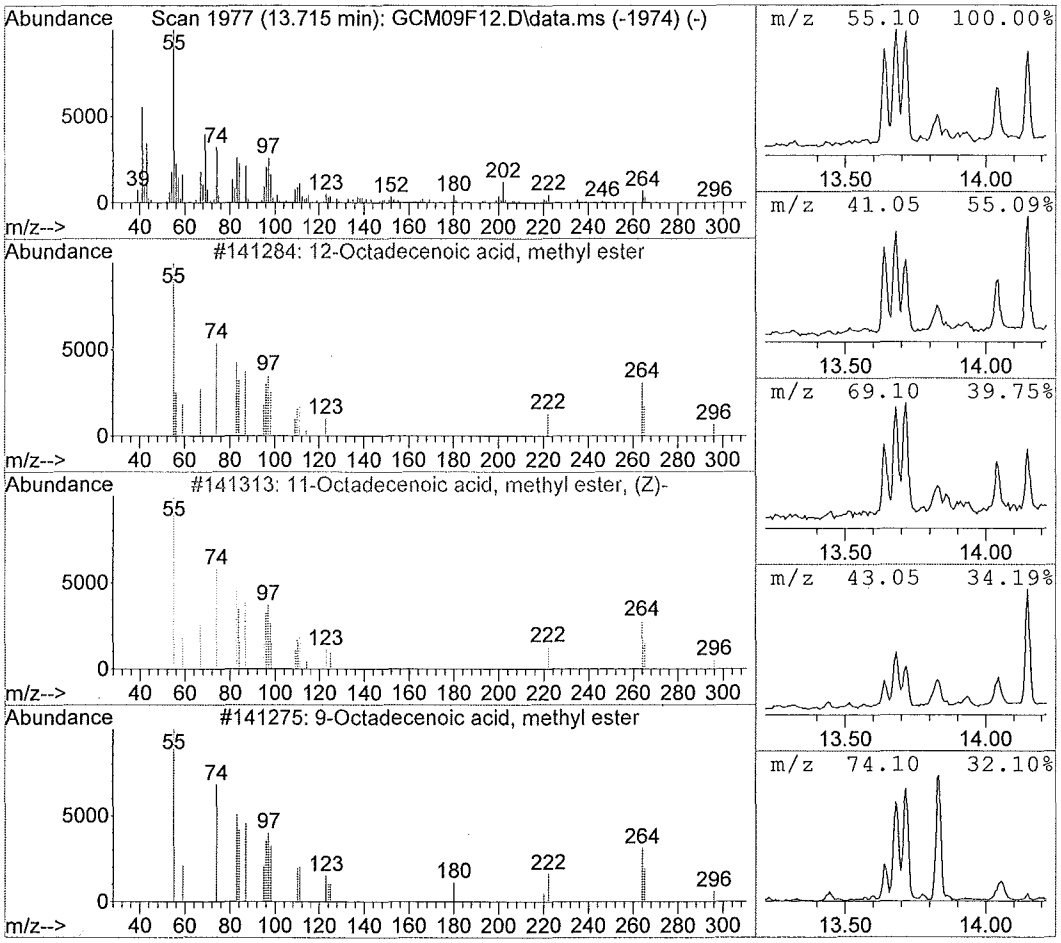
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.72	4.21 ug/ml	685232	Chrysene-d12	3255328

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	12-Octadecenoic acid, methyl ester	141284	056554-46-2	98.00
2	11-Octadecenoic acid, methyl ester,	141313	001937-63-9	93.00
3	9-Octadecenoic acid, methyl ester	141275	002462-84-2	93.00
4	9-Octadecenoic acid (Z)-, methyl es	141302	000112-62-9	92.00
5	13-Octadecenoic acid, methyl ester	141292	056554-47-3	91.00



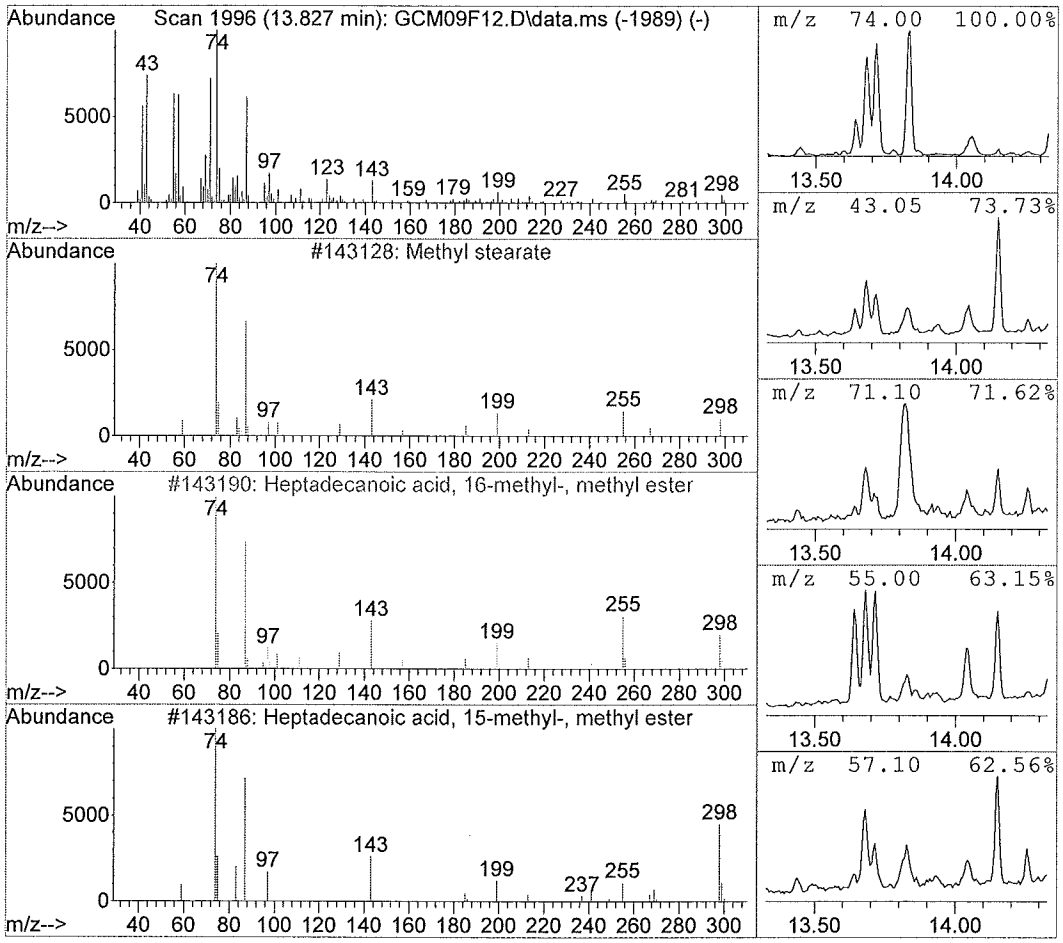
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.83	2.36 ug/ml	384662	Chrysene-d12	3255328

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methyl stearate	143128	000112-61-8	93.00
2	Heptadecanoic acid, 16-methyl-, met	143190	005129-61-3	70.00
3	Heptadecanoic acid, 15-methyl-, met	143186	054833-55-5	70.00
4	Hexadecanoic acid, 15-methyl-, meth	131317	006929-04-0	50.00
5	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	50.00



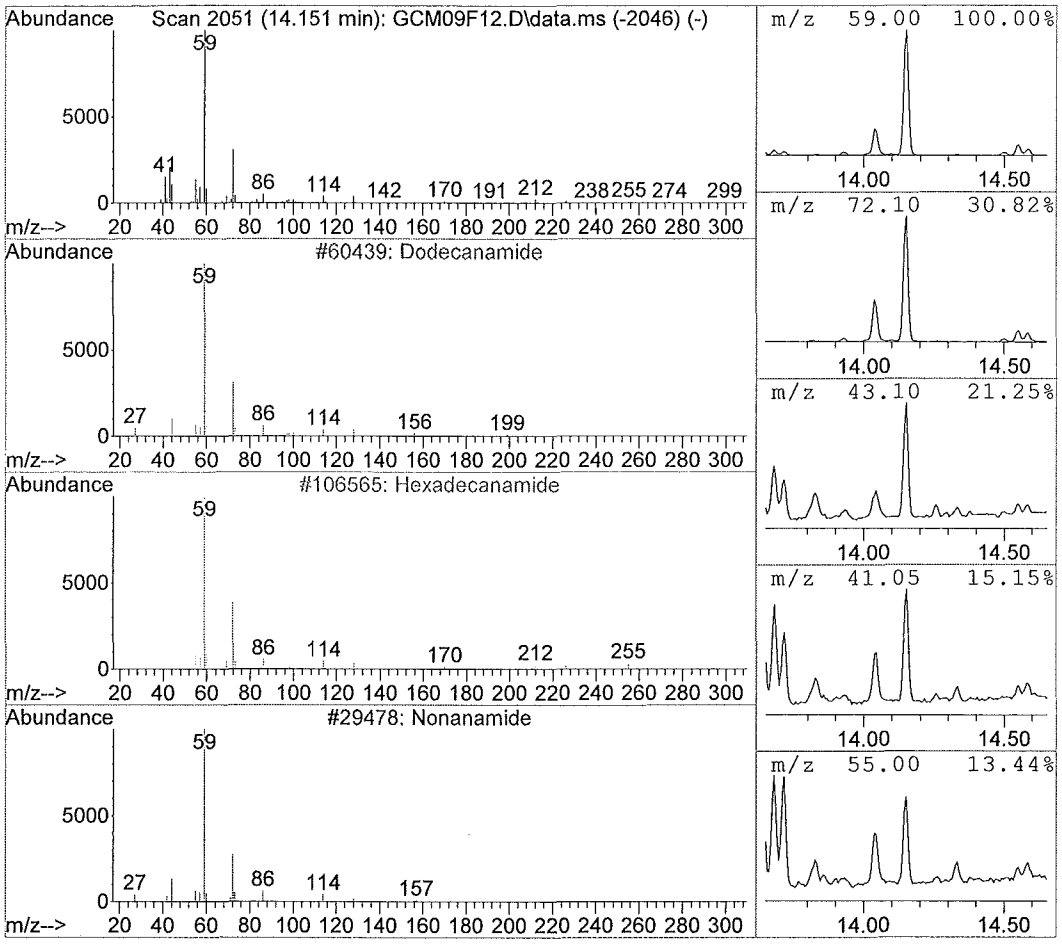
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.15	7.43 ug/ml	1209106	Chrysene-d12	3255328

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Hexadecanamide	106565	000629-54-9	87.00
3	Nonanamide	29478	001120-07-6	78.00
4	Pentanamide	4064	000626-97-1	78.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	78.00



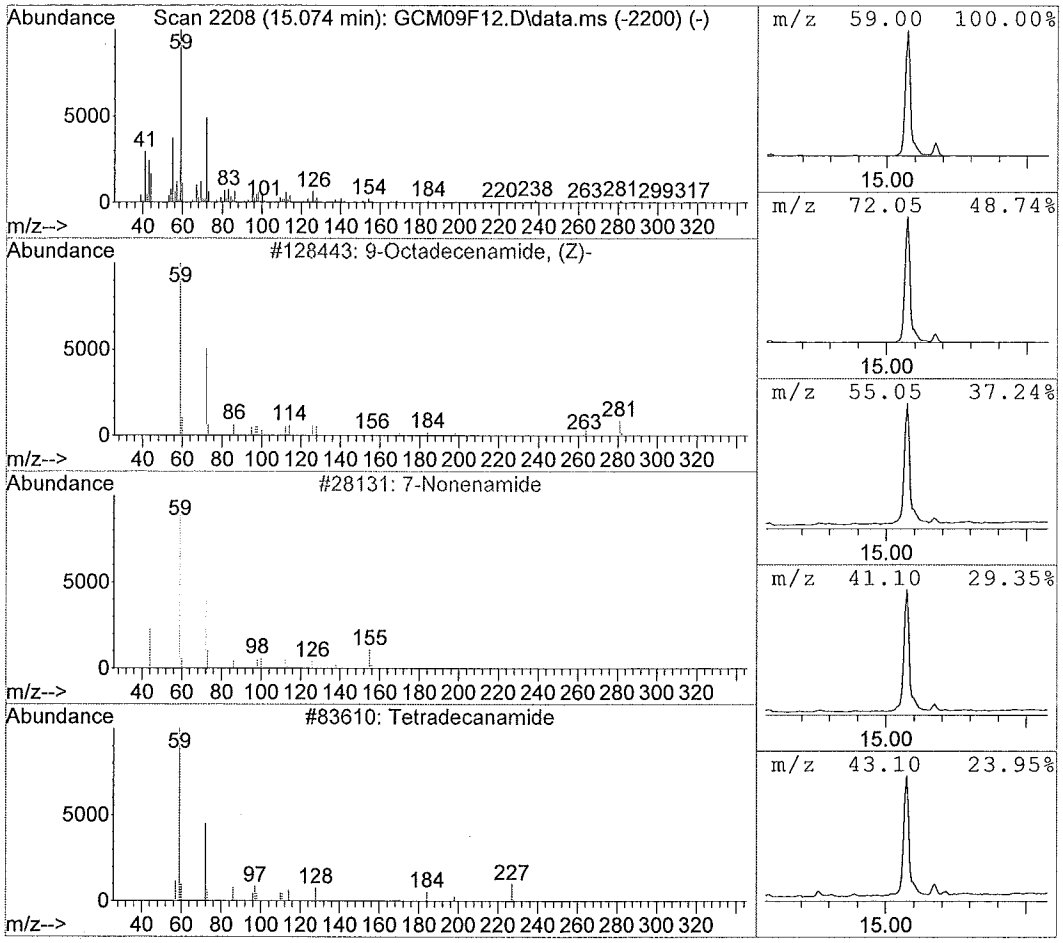
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.07	47.43 ug/ml	7720110	Chrysene-d12	3255328

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	94.00
2	7-Nonenamide	28131	090949-53-4	72.00
3	Tetradecanamide	83610	000638-58-4	68.00
4	Pentanamide	4064	000626-97-1	59.00
5	Hexadecanamide	106565	000629-54-9	56.00



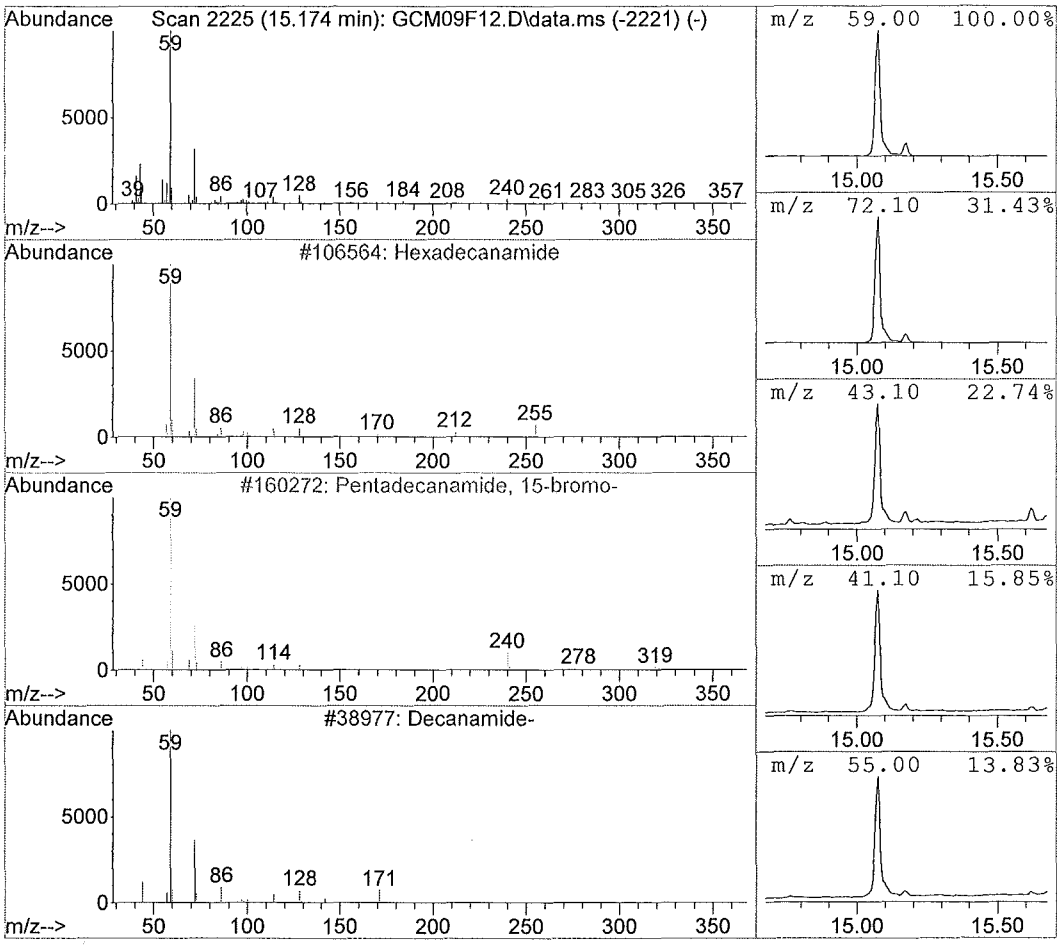
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	2.36 ug/ml	384057	Chrysene-d12	3255328

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	95.00
2	Pentadecanamide, 15-bromo-	160272	1000163-86-1	78.00
3	Decanamide-	38977	002319-29-1	78.00
4	Tetradecanamide	83608	000638-58-4	72.00
5	Dodecanamide	60439	001120-16-7	72.00



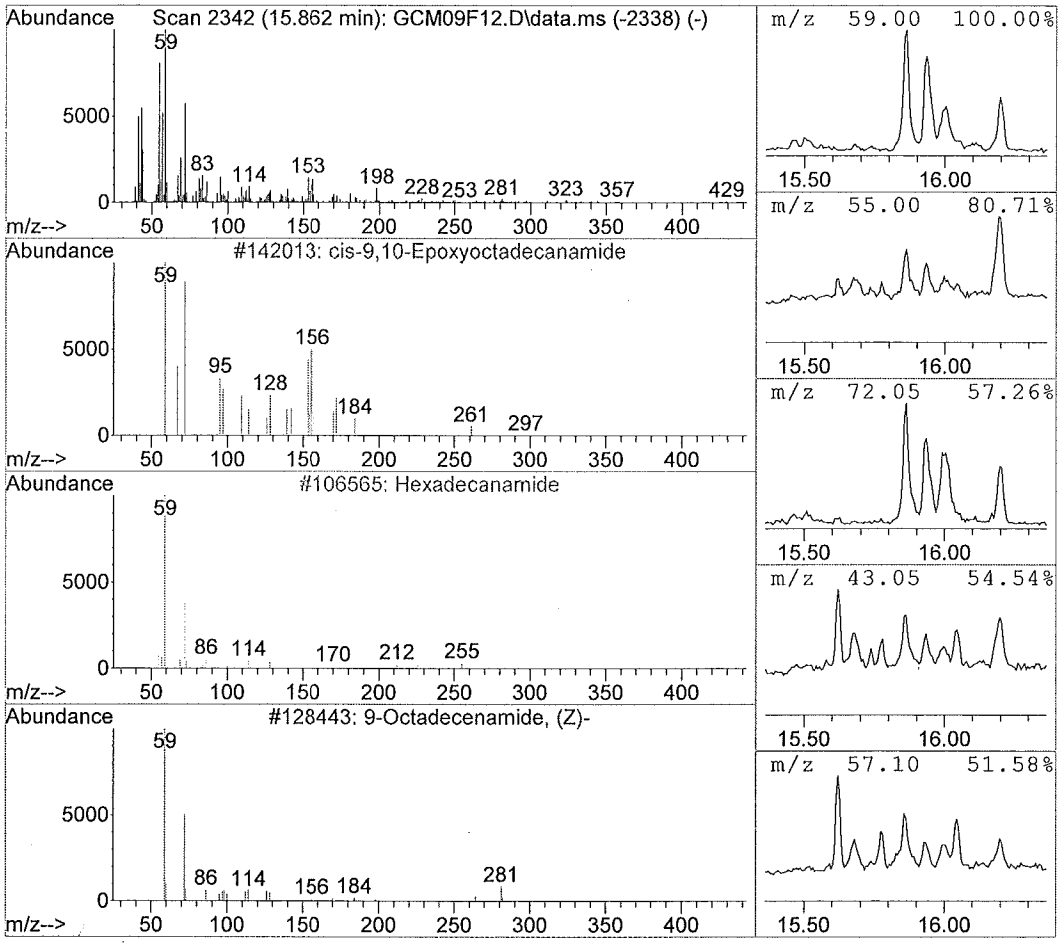
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.86	2.94 ug/ml	478185	Chrysene-d12	3255328

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	cis-9,10-Epoxyoctadecanamide	142013	172995-07-2	86.00
2	Hexadecanamide	106565	000629-54-9	70.00
3	9-Octadecenamide, (Z)-	128443	000301-02-0	64.00
4	7-Nonenamide	28131	090949-53-4	62.00
5	Tetradecanamide	83608	000638-58-4	53.00



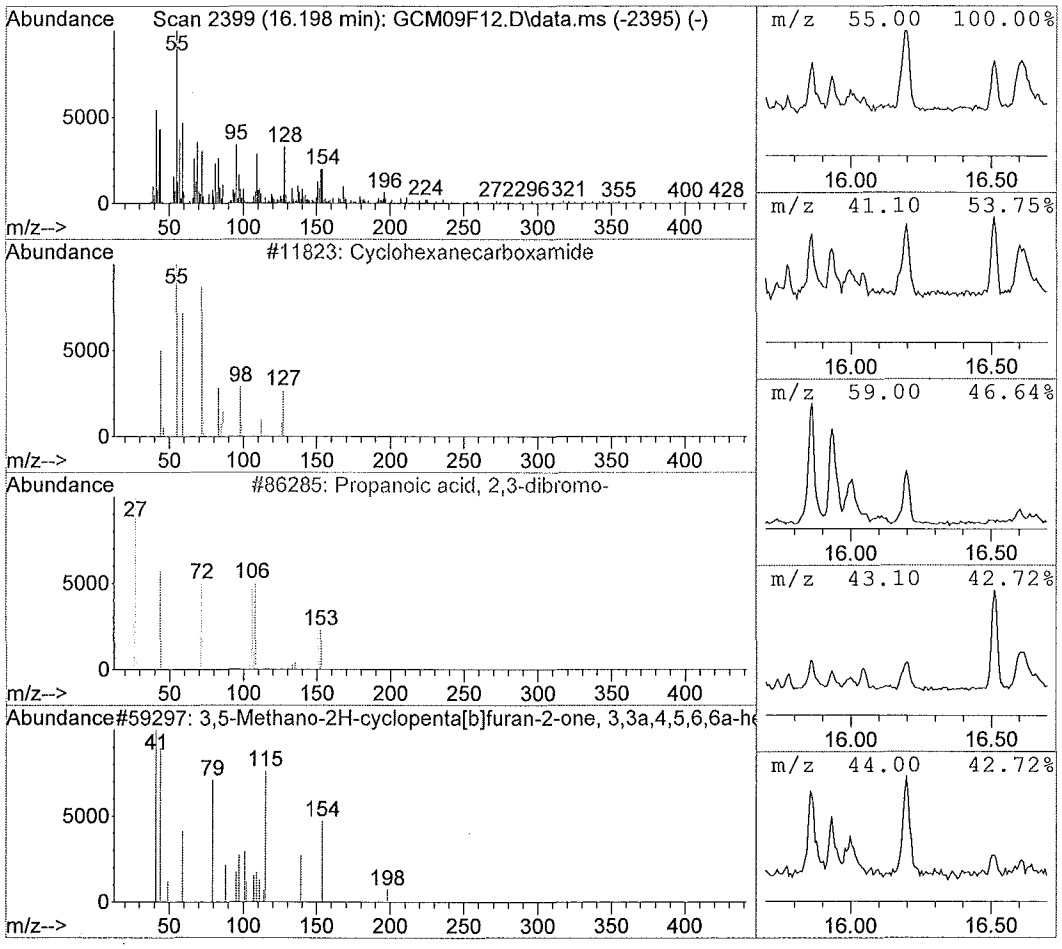
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.20	4.15 ug/ml	675492	Chrysene-d12	3255328

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexanecarboxamide	11823	001122-56-1	35.00
2	Propanoic acid, 2,3-dibromo-	86285	000600-05-5	10.00
3	3,5-Methano-2H-cyclopenta[b]furan-2	59297	1000141-74-2	10.00
4	Butanal	646	000123-72-8	9.00
5	N-(3-Methyl-2,5-dioxo-imidazolidin-	39190	1000287-36-8	9.00



Library Search Compound Report

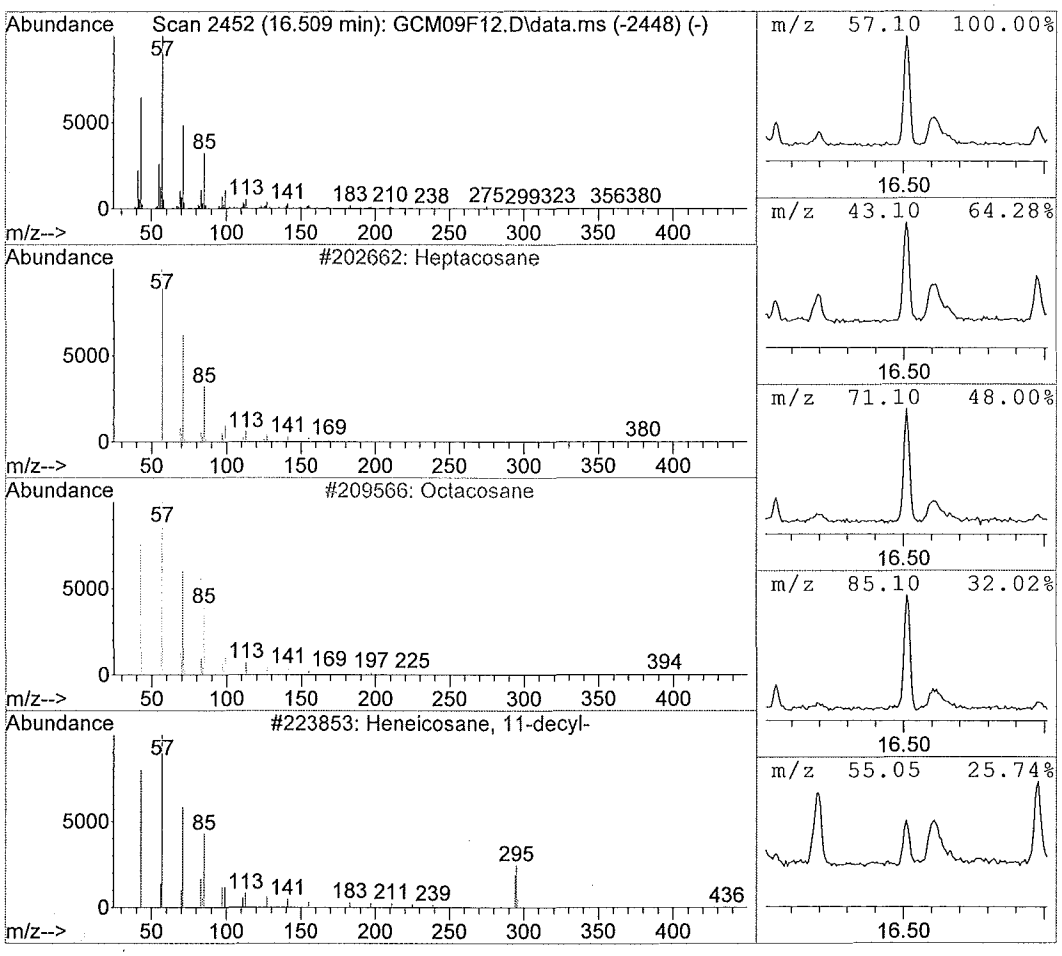
Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.51	4.38 ug/ml	713518	Chrysene-d12	3255328

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	90.00
2	Octacosane	209566	000630-02-4	87.00
3	Heneicosane, 11-decyl-	223853	055320-06-4	83.00
4	Eicosane, 7-hexyl-	194499	055333-99-8	83.00
5	Decane, 3,8-dimethyl-	38349	017312-55-9	81.00

SCA



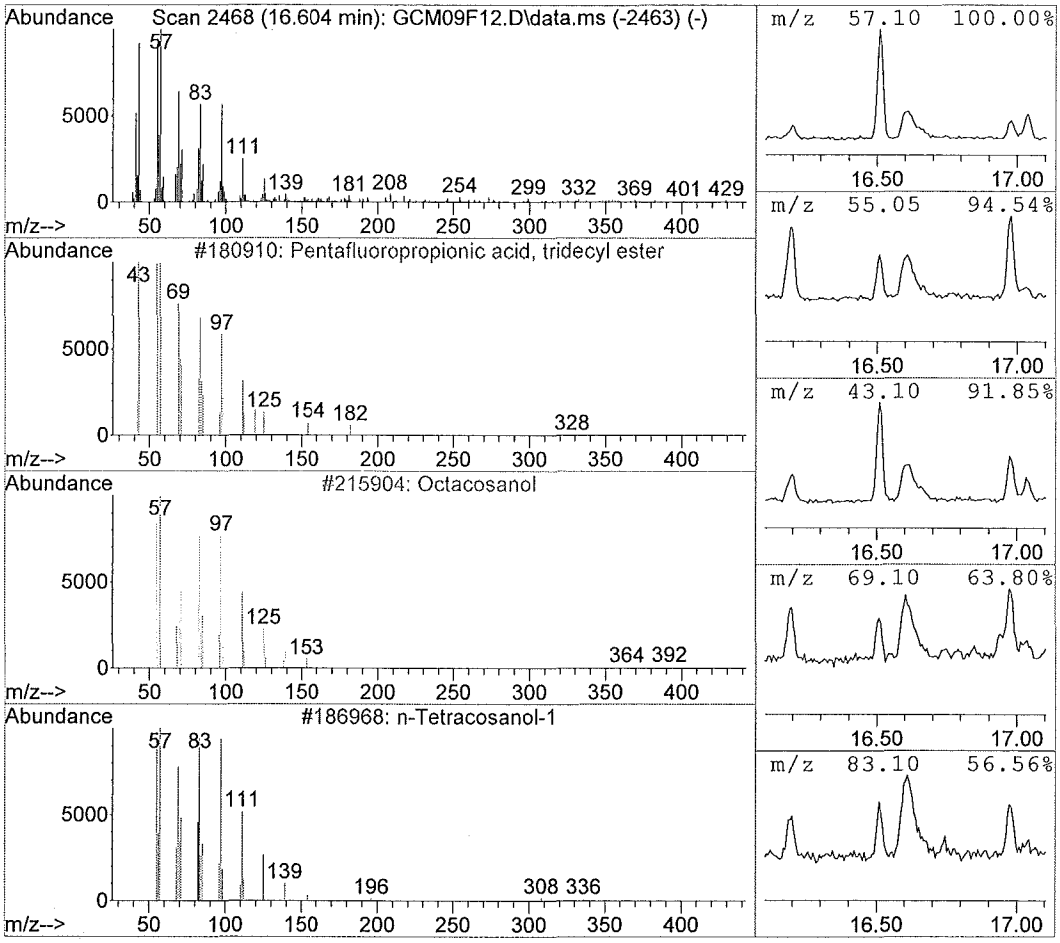
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.60	4.75 ug/ml	773523	Chrysene-d12	3255328

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentafluoropropionic acid, tridecyl	180910	959261-22-4	87.00
2	Octacosanol	215904	000557-61-9	83.00
3	n-Tetracosanol-1	186968	000506-51-4	83.00
4	Pentafluoropropionic acid, tetradec	190374	006222-06-6	80.00
5	1-Docosene	151537	001599-67-3	68.00



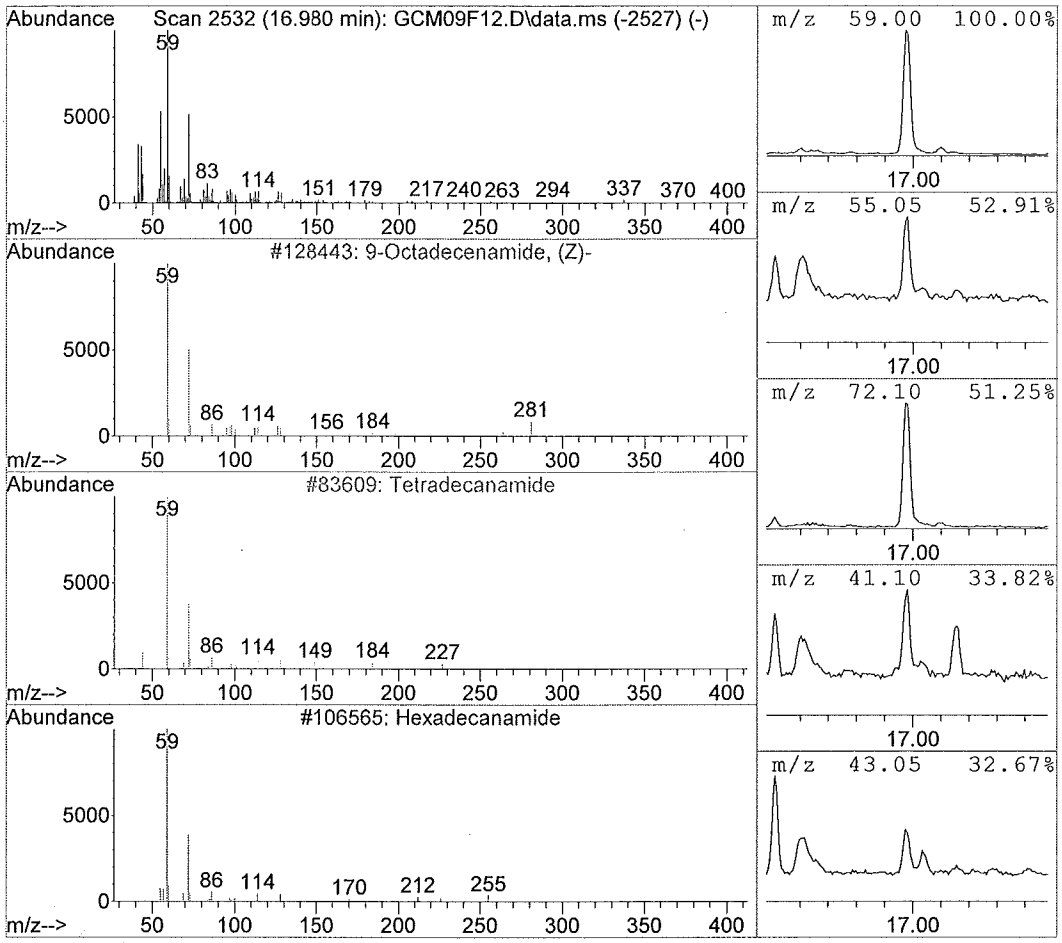
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.98	6.56 ug/ml	867747	Perylene-d12	2644820

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	90.00
2	Tetradecanamide	83609	000638-58-4	56.00
3	Hexadecanamide	106565	000629-54-9	56.00
4	Octanamide	20317	000629-01-6	53.00
5	7-Nonenamide	28131	090949-53-4	50.00



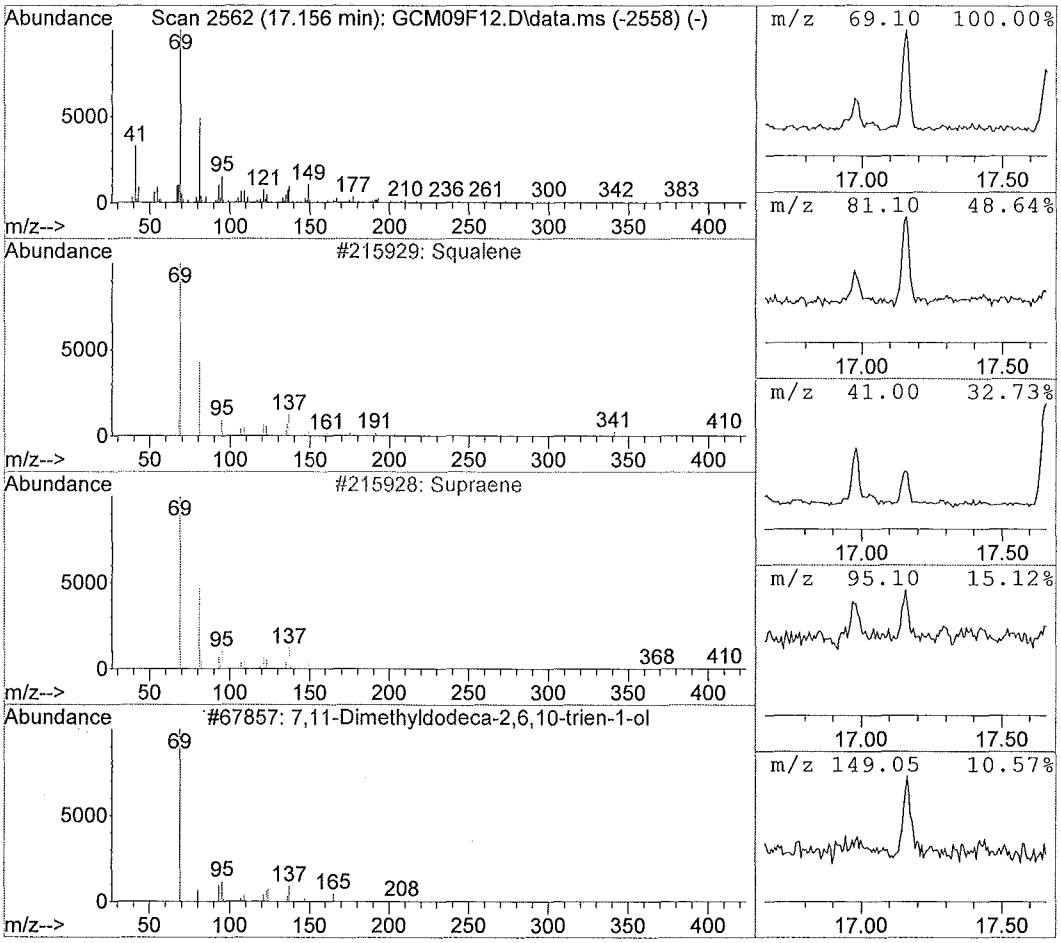
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.16	3.12 ug/ml	412461	Perylene-d12	2644820

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Squalene	215929	000111-02-4	80.00
2	Supraene	215928	007683-64-9	80.00
3	7,11-Dimethyldodeca-2,6,10-trien-1-	67857	125529-10-4	76.00
4	1,5,9-Undecatriene, 2,6,10-trimethy	54708	062951-96-6	64.00
5	6,11-Dimethyl-2,6,10-dodecatrien-1-	67856	1000196-53-3	64.00



Library Search Compound Report

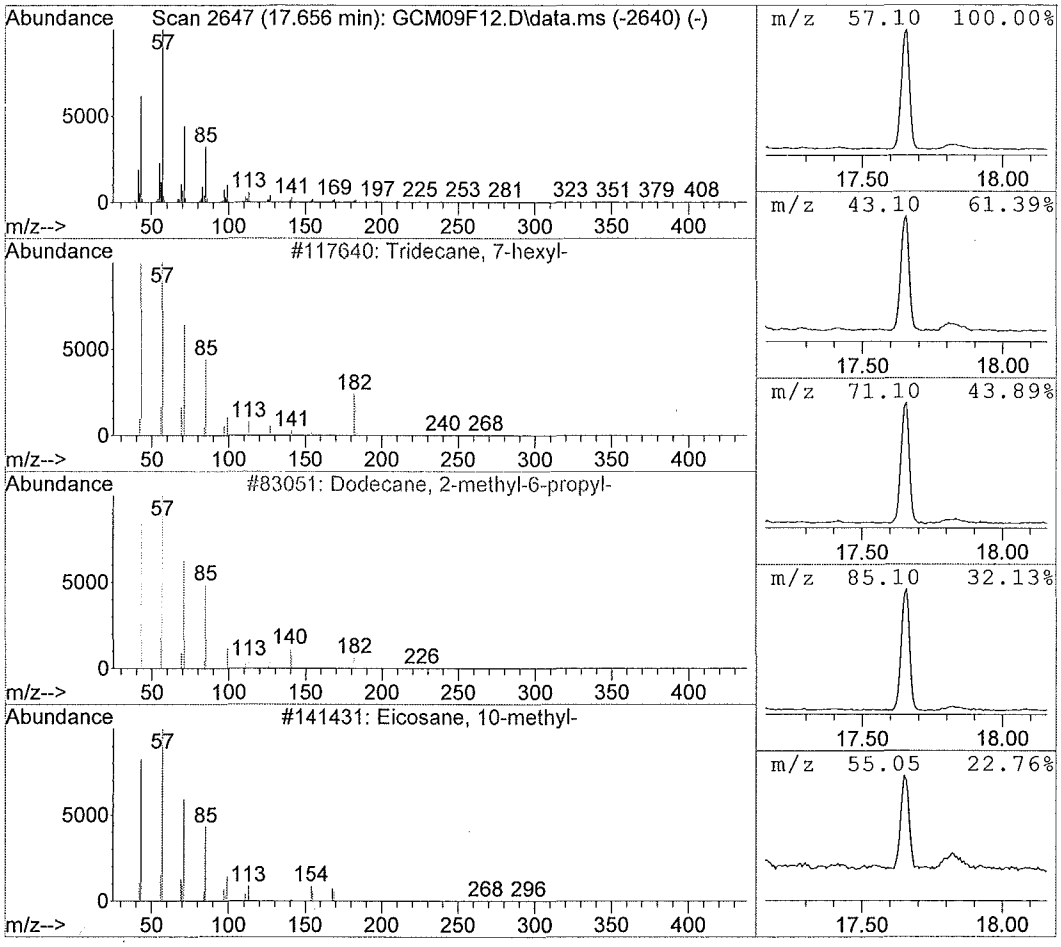
Data File : R:\G\2015\JUL15\06JUL15PM\GCM09F12.D Vial: 16
Acq On : 07/06/2015 19:01 Operator: TJM
Sample : 1514293012 F9L67 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.66	21.63 ug/ml	2860043	Perylene-d12	2644820

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane, 7-hexyl-	117640	007225-66-3	94.00
2	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	91.00
3	Eicosane, 10-methyl-	141431	054833-23-7	91.00
4	Heneicosane	141425	000629-94-7	90.00
5	Heptacosane	202662	000593-49-7	90.00

BA



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L68

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293013

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC15F13

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L68

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293013

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC15F13

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC -
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9L68

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293013

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC15F13

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 2,2-dimethoxy-	2.12	89.	JB
02		Unknown 2-Pentanone, 4-hydroxy-	3.37	120	J
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.59	5200	J
04		Unknown 3-Hexene-2,5-dione	4.35	300	JB
05		Unknown 2-Chloro-5-hydroxy-2,4,6-cycloheptatrien	7.26	89.	J
06	629-54-9	Hexadecanamide	14.25	170	JNB
07	301-02-0	9-Octadecenamide, (Z)-	15.17	1500	JNB
08		Unknown 5-Chlorovaleramide, N,N-dimethyl-	16.31	100	J
09	112-84-5	13-Docosenamide, (Z)-	17.12	130	JN
10		Unknown Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	21.53	86.	J
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	89.	J

[2] EPA-designated Registry Number.

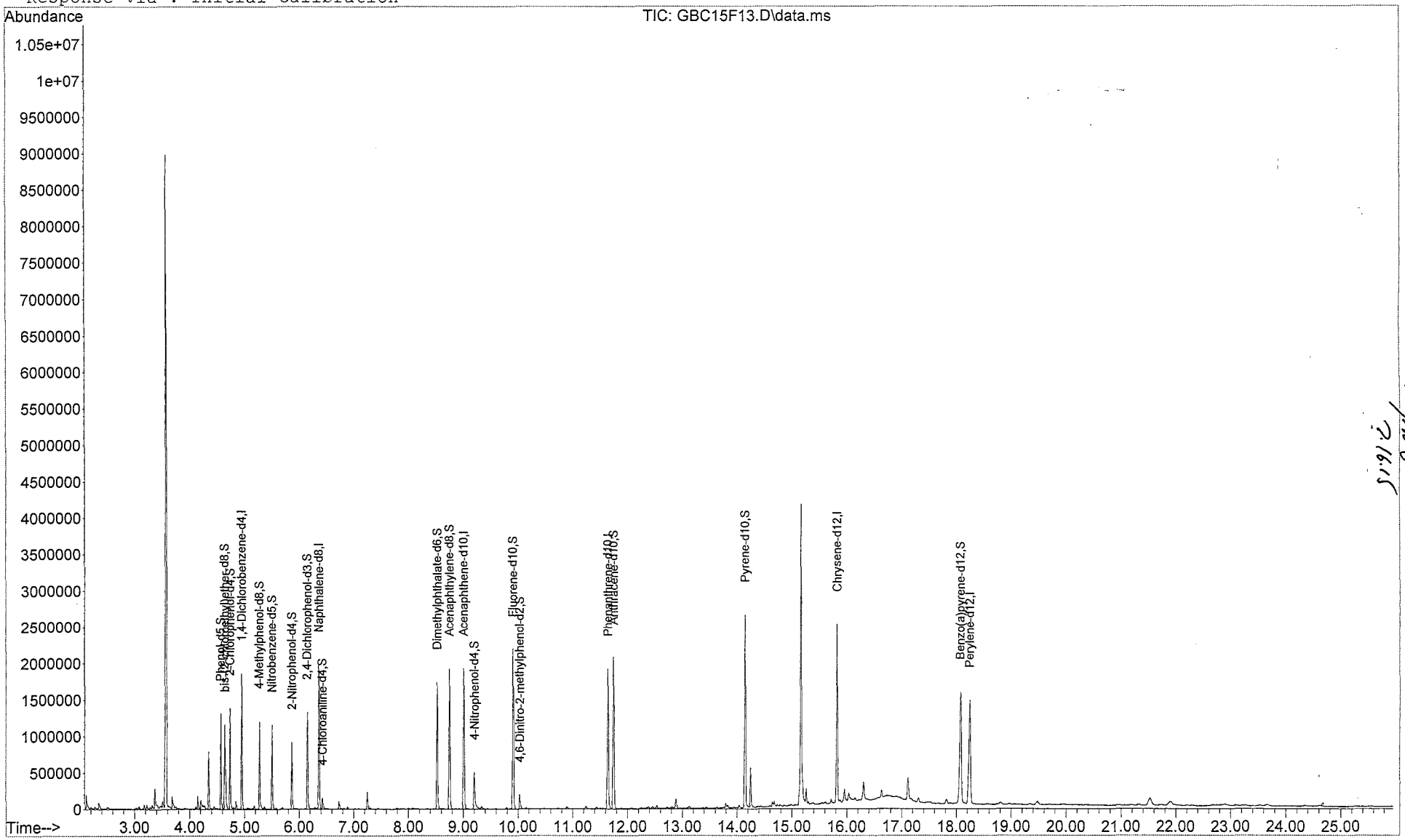
Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC15F13.D
Acq On : 06/02/2015 21:02
Sample : 1514293013 F9L68
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 14
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 14:42:11 2015 Results File: GSOM01D4.RES

Method : R:\G\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 : R:\G\2015\JUN15\02JUN15\GBC15F13.D Vial: 14
Acq On : 06/02/2015 21:02 Operator: DJC
Sample : 1514293013 F9L68 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:42:11 2015 Results File: GSOM01D4.RES

Method : R:\G\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	321428	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1201504	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	676007	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1124912	20.00 ug/ml
73) Chrysene-d12	15.83	240	1076772	20.00 ug/ml
81) Perylene-d12	18.25	264	1047215	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	466248	20.801ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	244289	17.800ug/mL
7) 2-Chlorophenol-d4	4.75	132	467694	21.252ug/ml
13) 4-Methylphenol-d8	5.28	113	291822	16.722ug/mL
17) Nitrobenzene-d5	5.51	128	214969	21.325ug/ml
21) 2-Nitrophenol-d4	5.87	143	244774	21.788ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	355142	21.580ug/mL
28) 4-Chloroaniline-d4	6.43	131	72396	4.055ug/mL
42) Dimethylphthalate-d6	8.53	166	1064462	25.892ug/mL
45) Acenaphthylene-d8	8.76	160	1254959	22.873ug/mL
50) 4-Nitrophenol-d4	9.21	143	180821	20.654ug/mL
57) Fluorene-d10	9.92	176	887566	24.856ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	48650	6.584ug/mL
69) Anthracene-d10	11.75	188	1367522	24.032ug/mL
75) Pyrene-d10	14.15	212	1218730	24.896ug/mL
86) Benzo(a)pyrene-d12	18.08	264	1114825	23.469ug/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 : R:\G\2015\JUN15\02JUN15\GBC15F13.D Vial: 14
Acq On : 06/02/2015 21:02 Operator: DJC
Sample : 1514293013 F9L68 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:42:11 2015 Results File: GSOM01D4.RES

Method : R:\G\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)

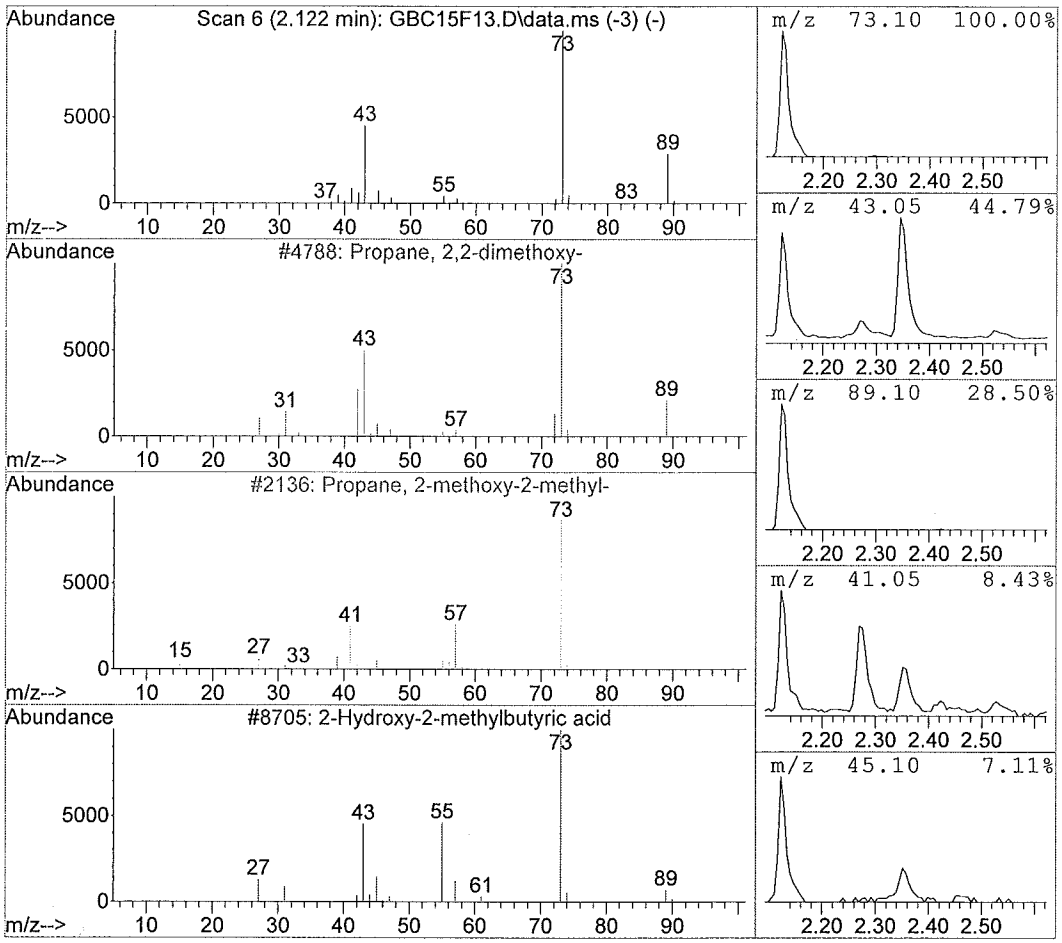
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC15F13.D Vial: 14
Acq On : 06/02/2015 21:02 Operator: DJC
Sample : 1514293013 F9L68 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.12	2.38 ug/ml	214371	1,4-Dichlorobenzene-d4	1803972

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 2,2-dimethoxy-	4788	000077-76-9	40.00
2	Propane, 2-methoxy-2-methyl-	2136	001634-04-4	9.00
3	2-Hydroxy-2-methylbutyric acid	8705	003739-30-8	9.00
4	Pentane, 3-methoxy-	4436	036839-67-5	9.00
5	1-Hexen-4-ol, 1-chloro-3,5-dimethyl	32642	100244-09-5	9.00



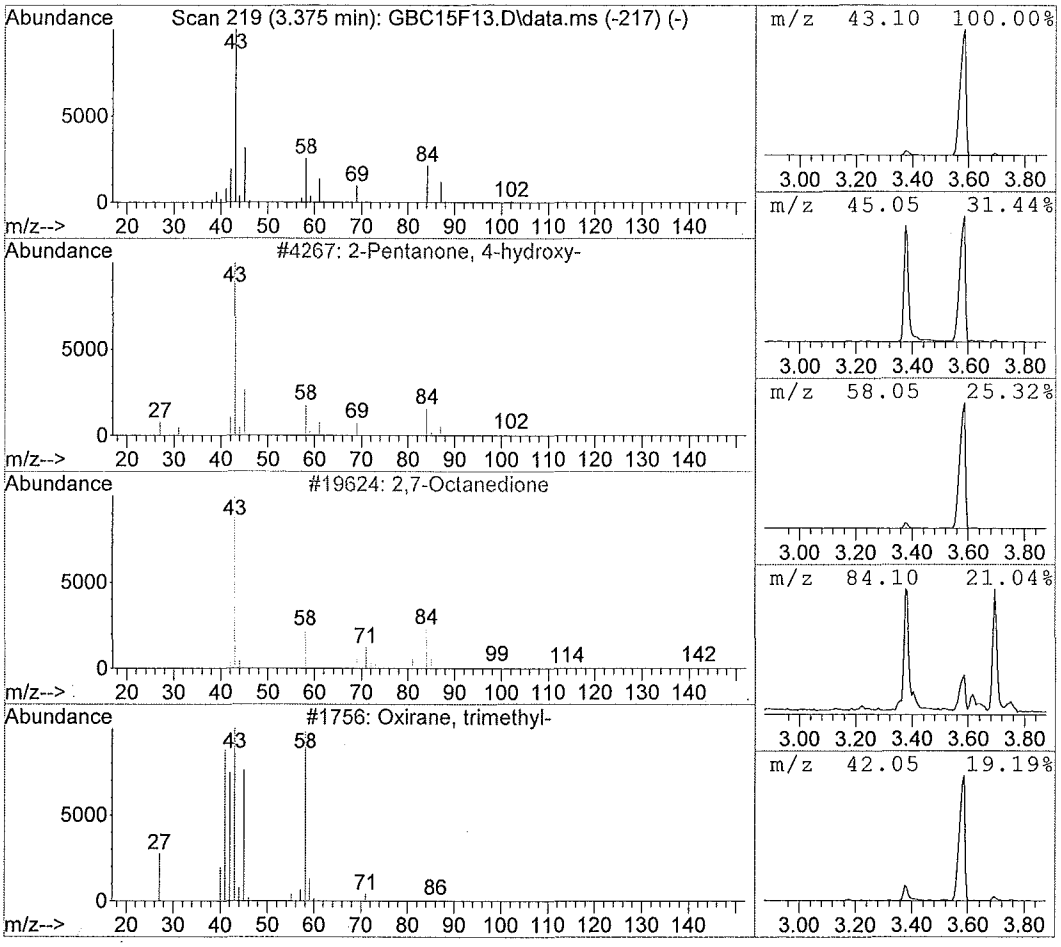
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC15F13.D Vial: 14
Acq On : 06/02/2015 21:02 Operator: DJC
Sample : 1514293013 F9L68 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.37	3.30 ug/ml	297209	1,4-Dichlorobenzene-d4	1803972

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	72.00
2	2,7-Octanedione	19624	001626-09-1	25.00
3	Oxirane, trimethyl-	1756	005076-19-7	23.00
4	Isopropyl acetate	4254	000108-21-4	10.00
5	Acetone	213	000067-64-1	9.00



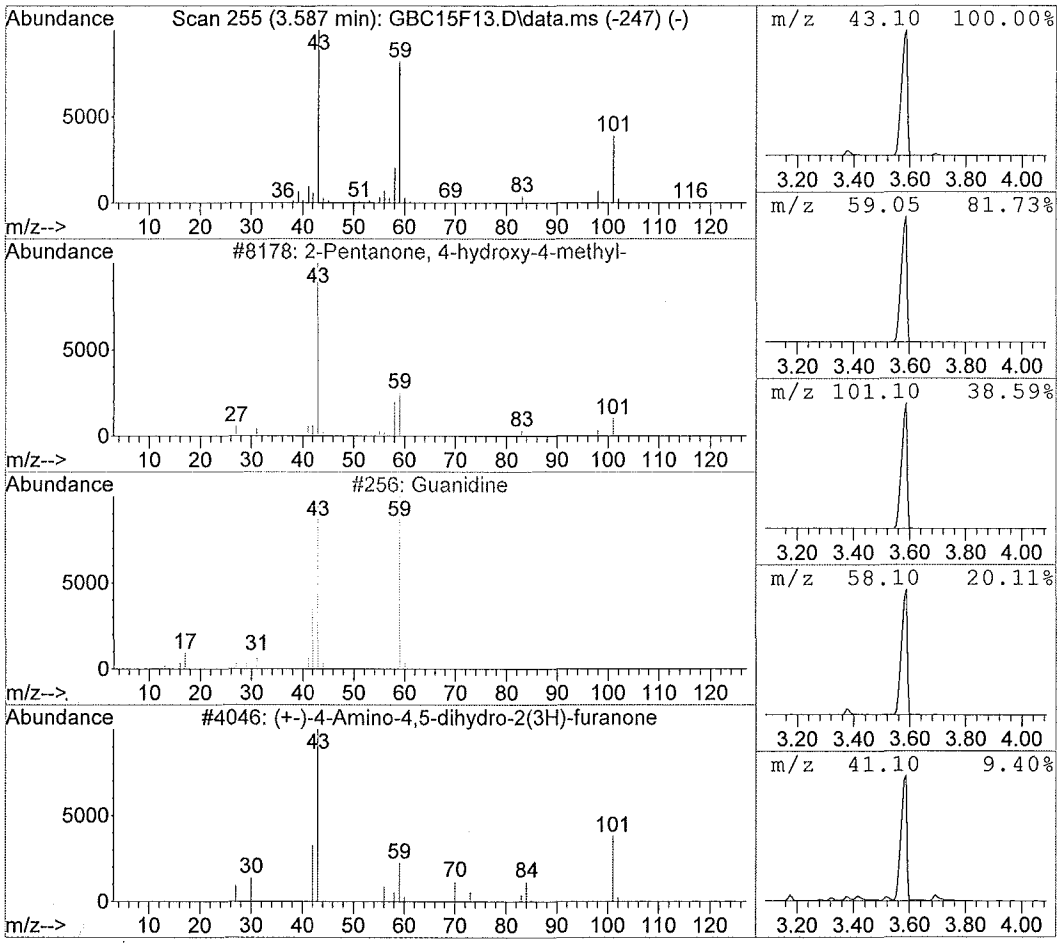
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC15F13.D Vial: 14
Acq On : 06/02/2015 21:02 Operator: DJC
Sample : 1514293013 F9L68 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.59	138.74 ug/ml	12514154	1,4-Dichlorobenzene-d4	1803972

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	64.00
2	Guanidine	256	000113-00-8	43.00
3	(+-)-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	Butane, 1-ethoxy-	4425	000628-81-9	9.00



Library Search Compound Report

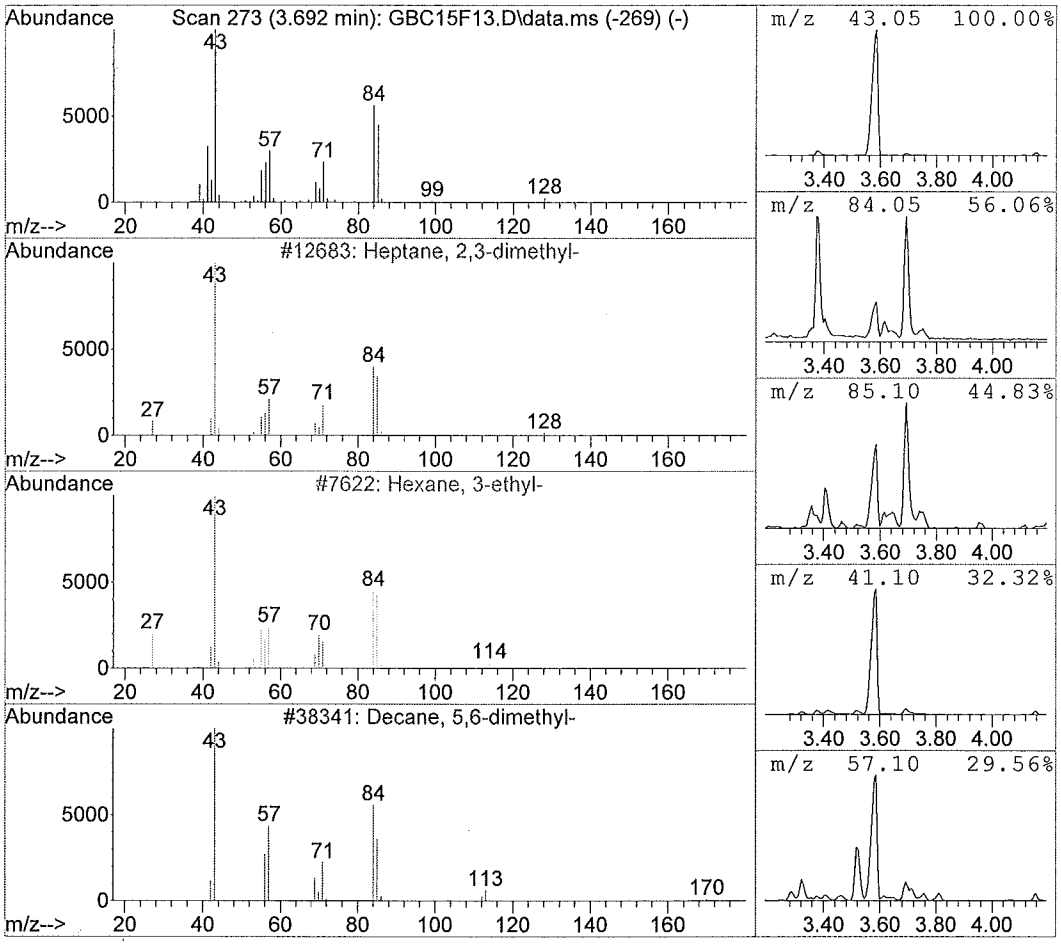
Data File : R:\G\2015\JUN15\02JUN15\GBC15F13.D Vial: 14
Acq On : 06/02/2015 21:02 Operator: DJC
Sample : 1514293013 F9L68 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.69	2.39 ug/ml	215419	1,4-Dichlorobenzene-d4	1803972

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12683	003074-71-3	87.00
2	Hexane, 3-ethyl-	7622	000619-99-8	83.00
3	Decane, 5,6-dimethyl-	38341	001636-43-7	74.00
4	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	59.00
5	Heptane, 4-ethyl-	12666	002216-32-2	50.00

BA



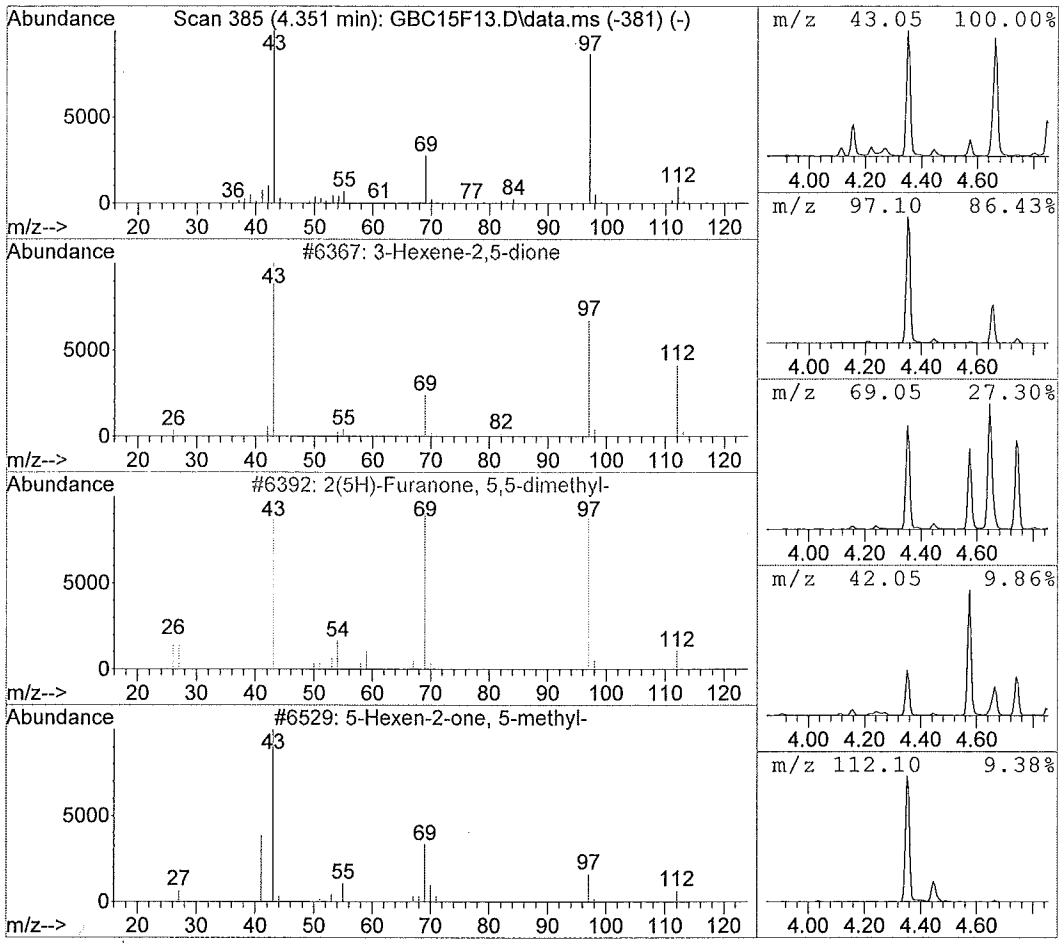
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC15F13.D Vial: 14
Acq On : 06/02/2015 21:02 Operator: DJC
Sample : 1514293013 F9L68 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	8.17 ug/ml	736517	1,4-Dichlorobenzene-d4	1803972

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	5-Hexen-2-one, 5-methyl-	6529	003240-09-3	9.00
4	2-Pyrazoline, 1,4,5-trimethyl-	6304	007423-11-2	9.00
5	Acetyl cyanide	478	000631-57-2	9.00



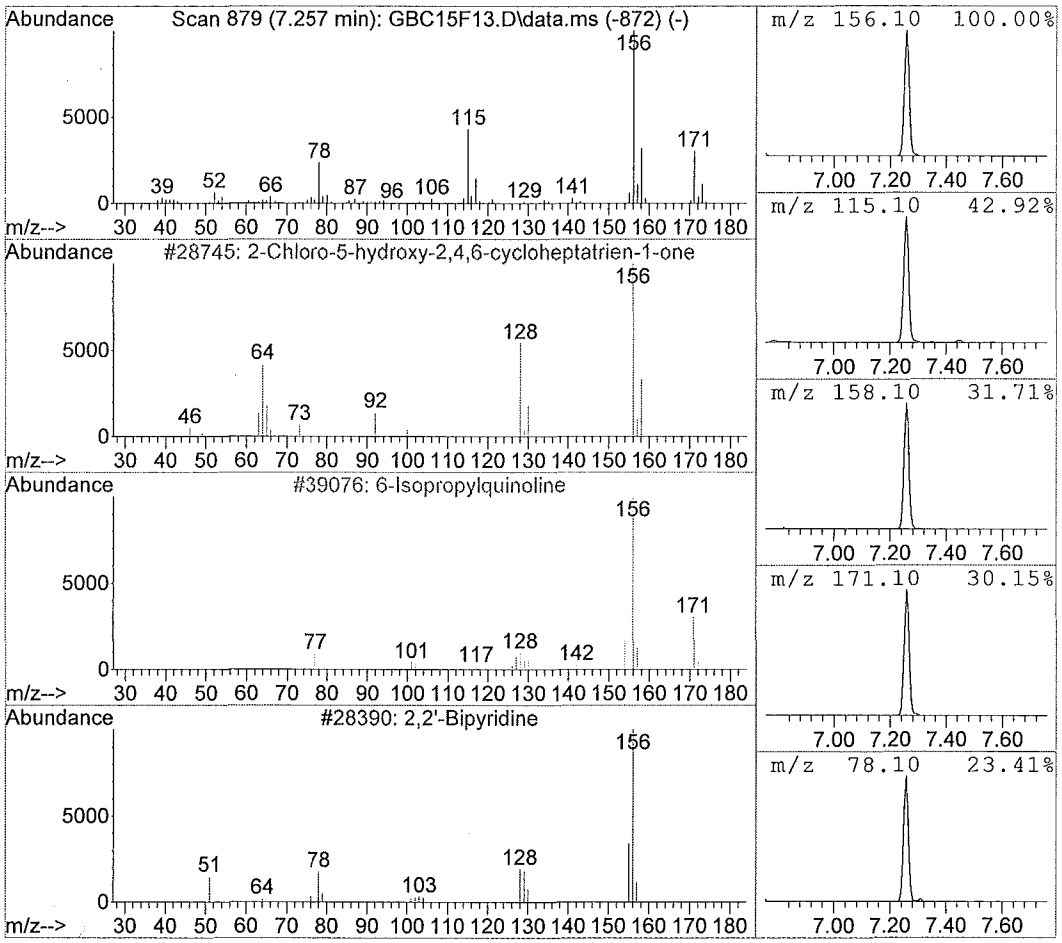
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC15F13.D Vial: 14
Acq On : 06/02/2015 21:02 Operator: DJC
Sample : 1514293013 F9L68 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.26	2.39 ug/ml	281807	Naphthalene-d8	2354908

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Chloro-5-hydroxy-2,4,6-cyclohepta	28745	007009-16-7	43.00
2	6-Isopropylquinoline	39076	000135-79-5	38.00
3	2,2'-Bipyridine	28390	000366-18-7	38.00
4	1,2,3,4-Tetrahydropentalene, 1,1-di	39115	1000217-18-6	37.00
5	1,2,3,3a-Tetrahydropentalene, 1,1-d	39116	1000217-17-0	37.00



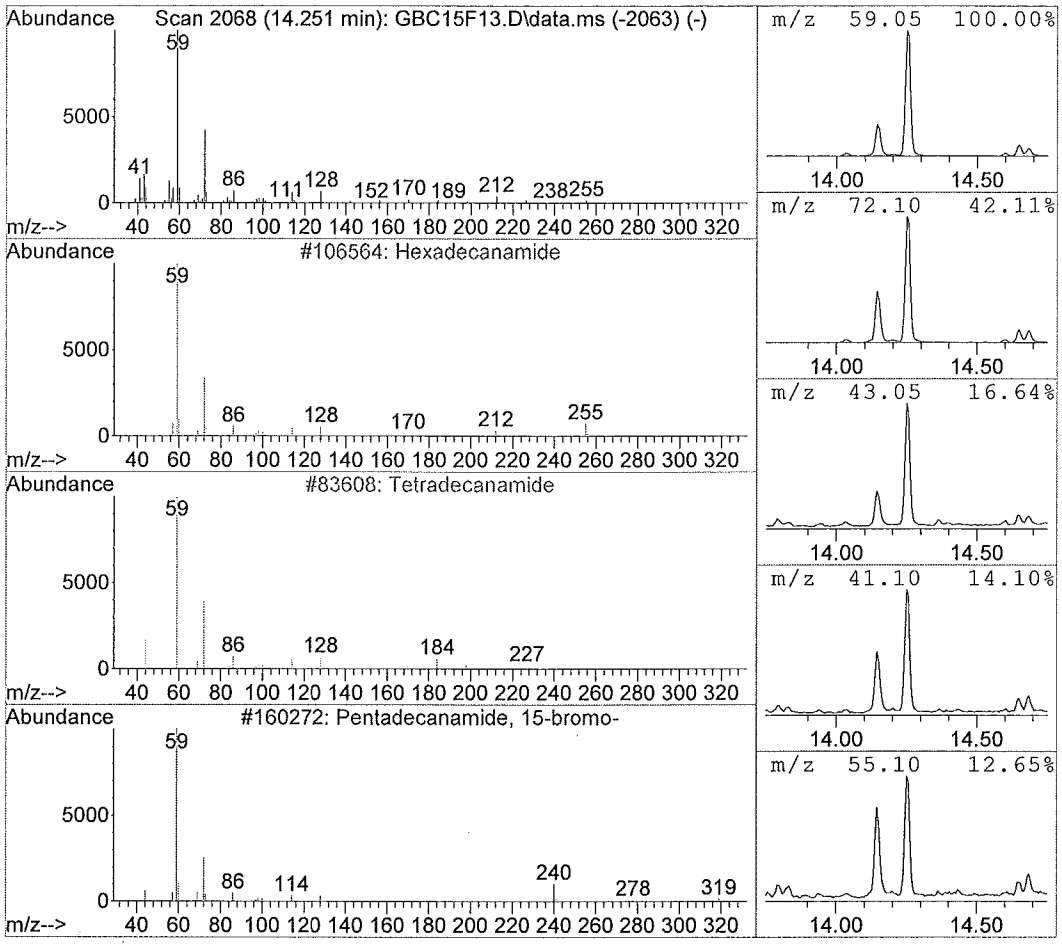
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC15F13.D Vial: 14
Acq On : 06/02/2015 21:02 Operator: DJC
Sample : 1514293013 F9L68 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	4.43 ug/ml	680879	Chrysene-d12	3075665

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	89.00
2	Tetradecanamide	83608	000638-58-4	86.00
3	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	56.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	53.00



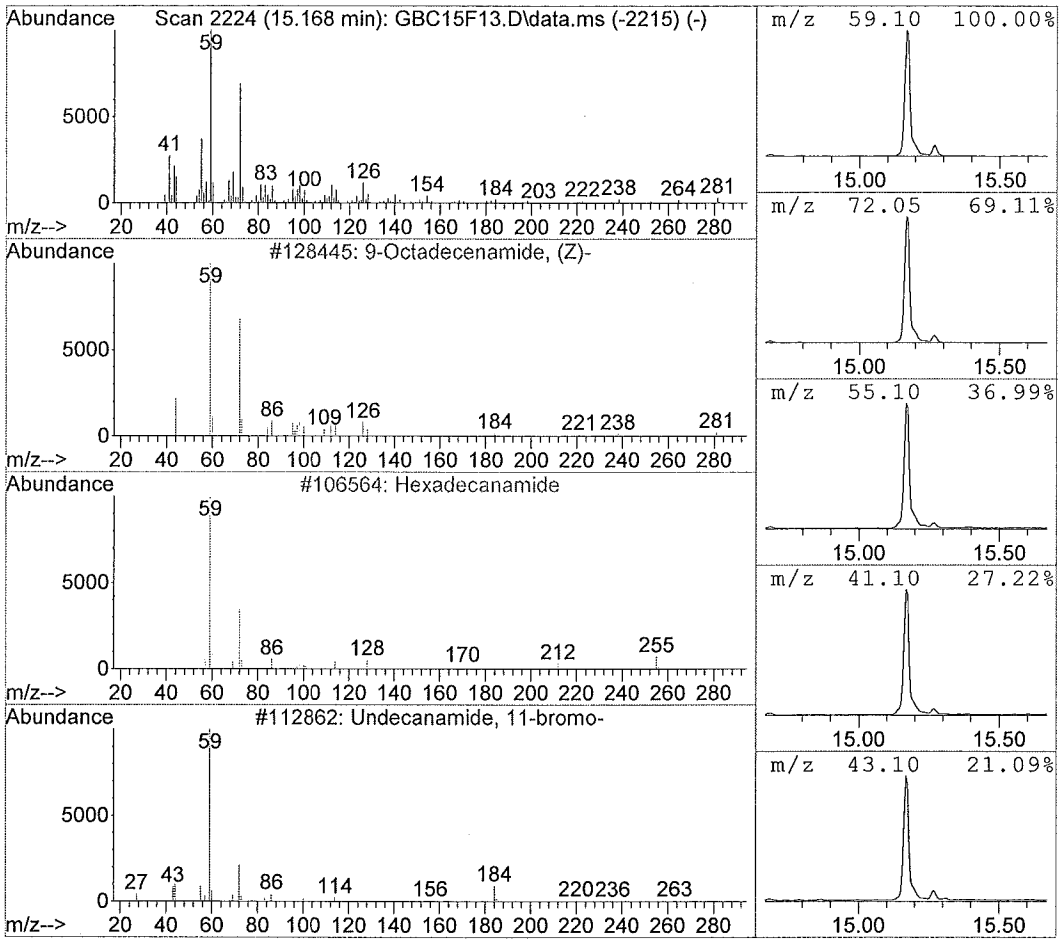
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC15F13.D Vial: 14
Acq On : 06/02/2015 21:02 Operator: DJC
Sample : 1514293013 F9L68 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	38.97 ug/ml	5993307	Chrysene-d12	3075665

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	Undecanamide, 11-bromo-	112862	005875-26-3	53.00
4	Dodecanamide	60440	001120-16-7	53.00
5	Octanamide	20317	000629-01-6	53.00



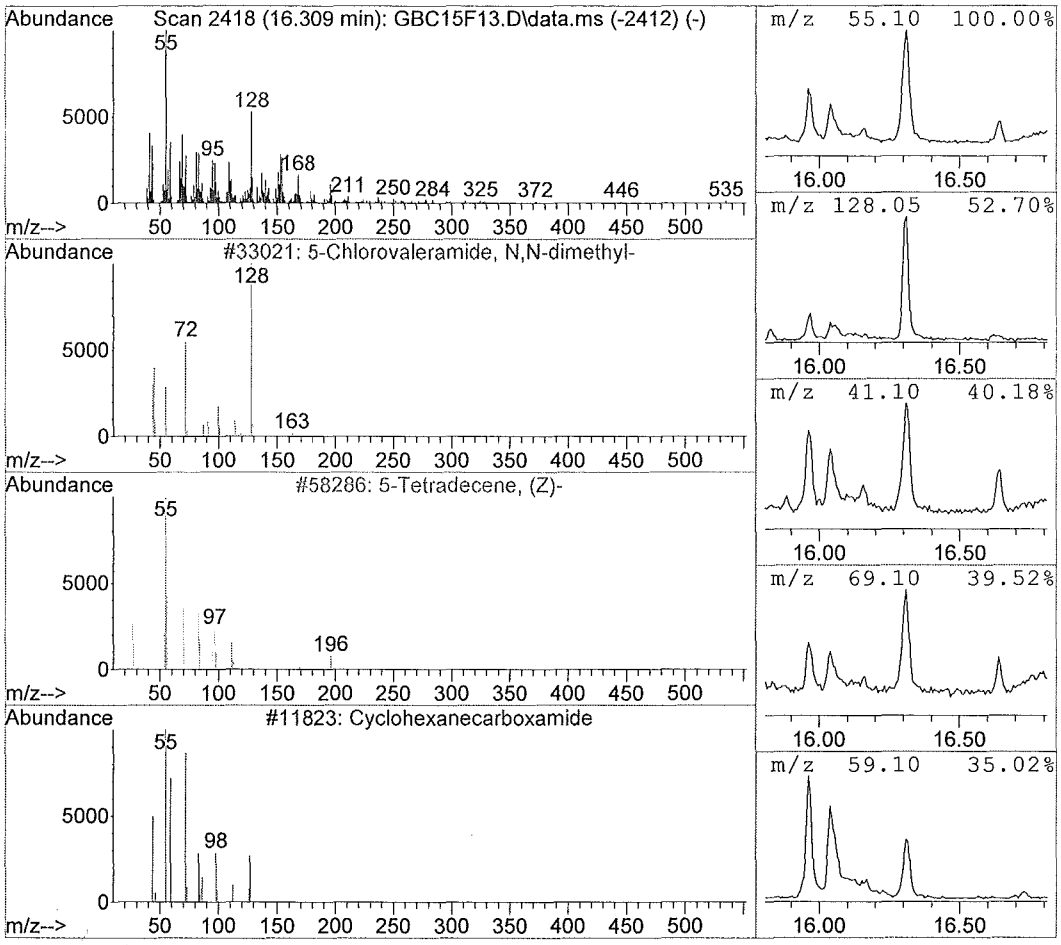
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC15F13.D Vial: 14
Acq On : 06/02/2015 21:02 Operator: DJC
Sample : 1514293013 F9L68 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.31	2.71 ug/ml	416495	Chrysene-d12	3075665

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	5-Chlorovaleramide, N,N-dimethyl-	33021	1000339-95-2	18.00
2	5-Tetradecene, (Z)-	58286	041446-62-2	15.00
3	Cyclohexanecarboxamide	11823	001122-56-1	11.00
4	Oxalic acid, 4-chlorophenyl octyl e	154244	1000309-61-3	11.00
5	4-Formyl-1,3(2H)-dihydroimidazole-2	12000	013953-95-2	10.00



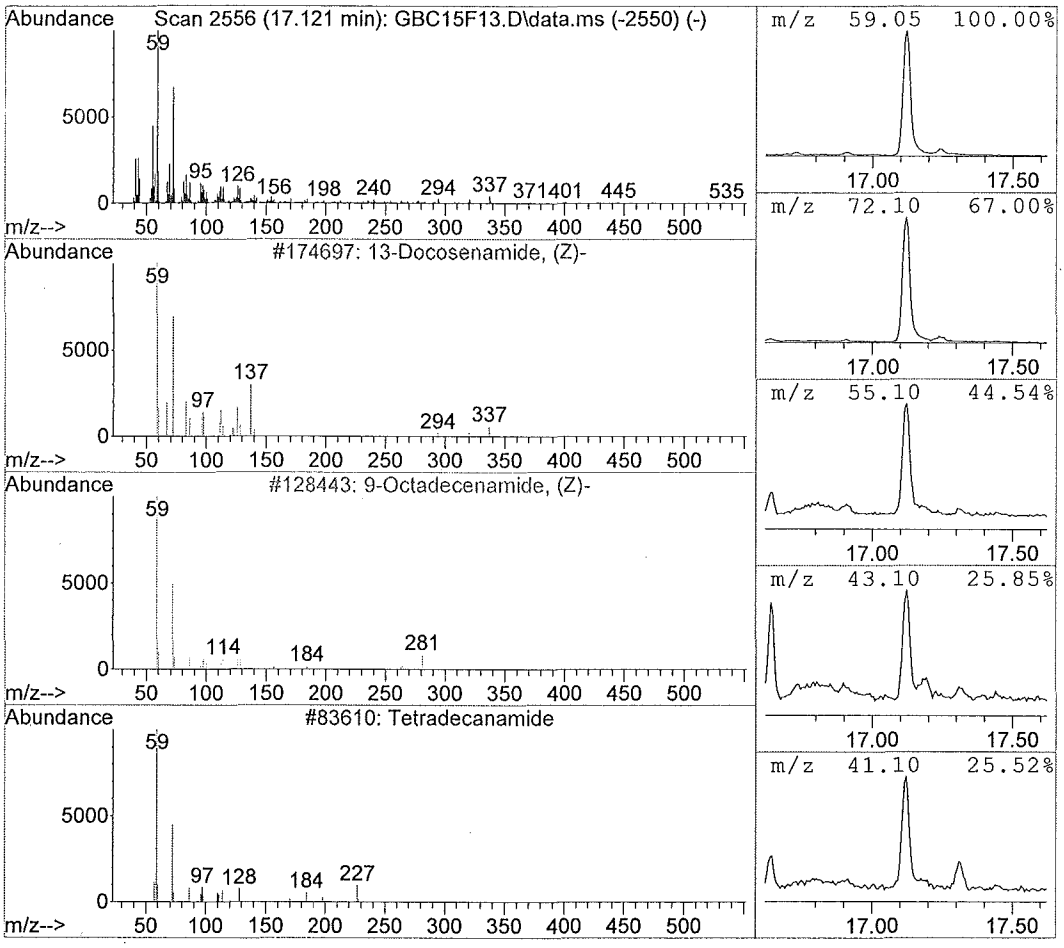
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC15F13.D Vial: 14
Acq On : 06/02/2015 21:02 Operator: DJC
Sample : 1514293013 F9L68 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	3.40 ug/ml	527216	Perylene-d12	3098367

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174697	000112-84-5	96.00
2	9-Octadecenamide, (Z)-	128443	000301-02-0	91.00
3	Tetradecanamide	83610	000638-58-4	64.00
4	Dodecanamide	60440	001120-16-7	47.00
5	2-Furanmethanol, 5-ethenyltetrahydr	38148	005989-33-3	43.00



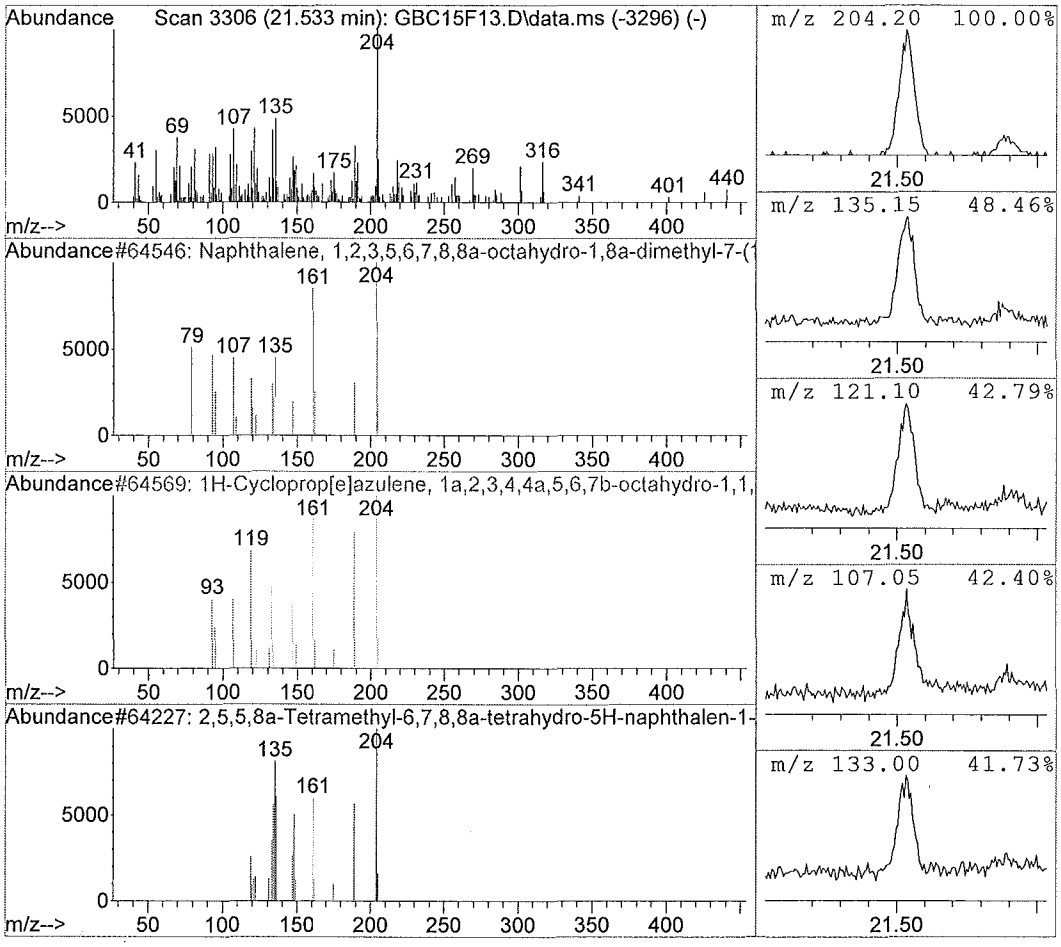
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC15F13.D Vial: 14
Acq On : 06/02/2015 21:02 Operator: DJC
Sample : 1514293013 F9L68 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	2.30 ug/ml	356972	Perylene-d12	3098367

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	64569	000489-40-7	46.00
3	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	41.00
4	[1,2,4]Triazolo[5,1-b]quinazolin-9(	63684	1000337-56-5	41.00
5	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	38.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.:

F9L69

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293014

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBC16F14

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: F9L69

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293014
Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBC16F14
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 12. Decanted: (Y/N) N Date Received: 05/22/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015
GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.:

F9L69

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293014

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBC16F14

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 2,2-dimethoxy-	2.12	240	JB
02	625-86-5	Furan, 2,5-dimethyl-	2.49	150	JN
03		Unknown 2-Pentanone, 4-hydroxy-	3.38	110	J
04		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.59	7900	J
05		Unknown 3-Hexene-2,5-dione	4.35	130	JB
06	629-54-9	Hexadecanamide	14.25	110	JNB
07	301-02-0	9-Octadecenamide, (Z)-	15.17	750	JNB
08		Unknown N-(3-Methyl-2,5-dioxo-imidazolidin-4-yl)	16.31	76.	J
09	112-84-5	13-Docosenamide, (Z)-	17.12	200	JN
10		Unknown 2,5,5,8a-Tetramethyl-6,7,8,8a-tetrahydrc	21.53	330	J
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.

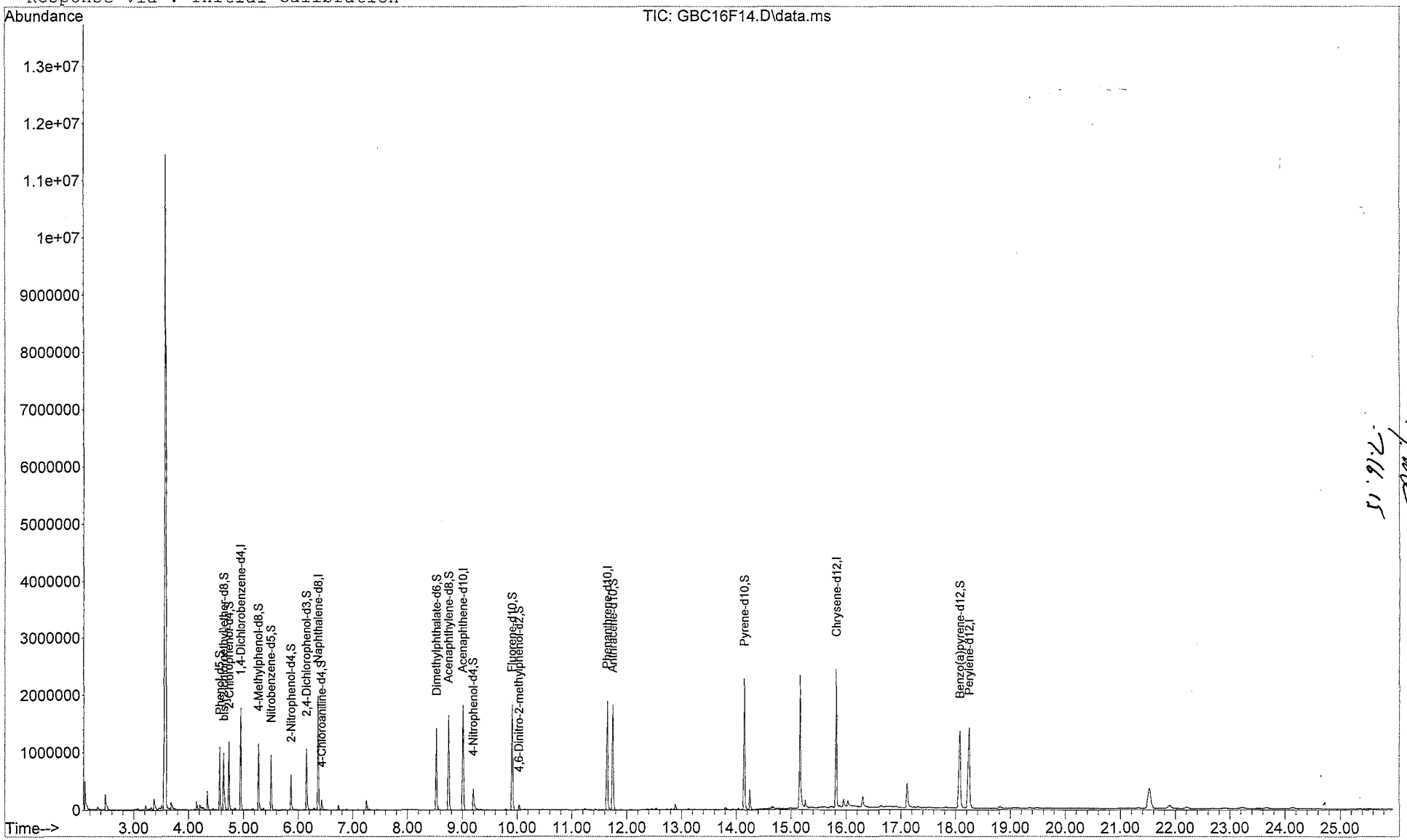
Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC16F14.D
Acq On : 06/02/2015 21:34
Sample : 1514293014 F9L69
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 15
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 14:42:34 2015 Results File: GSOM01D4.RES

Method : R:\G\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 : R:\G\2015\JUN15\02JUN15\GBC16F14.D Vial: 15
Acq On : 06/02/2015 21:34 Operator: DJC
Sample : 1514293014 F9L69 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:42:34 2015 Results File: GSOM01D4.RES

Method : R:\G\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	310996	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1164384	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	651969	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1082247	20.00 ug/ml
73) Chrysene-d12	15.83	240	1060059	20.00 ug/ml
81) Perylene-d12	18.25	264	1055600	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	387414	17.864ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	209340	15.765ug/mL
7) 2-Chlorophenol-d4	4.75	132	398742	18.726ug/ml
13) 4-Methylphenol-d8	5.28	113	279960	16.581ug/mL
17) Nitrobenzene-d5	5.51	128	182927	18.725ug/ml
21) 2-Nitrophenol-d4	5.87	143	164237	15.085ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	282467	17.711ug/mL
28) 4-Chloroaniline-d4	6.43	131	74132	4.285ug/mL
42) Dimethylphthalate-d6	8.53	166	876134	22.097ug/mL
45) Acenaphthylene-d8	8.76	160	1073310	20.283ug/mL
50) 4-Nitrophenol-d4	9.21	143	134956	15.984ug/mL
57) Fluorene-d10	9.92	176	738596	21.446ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	22258	3.131ug/mL
69) Anthracene-d10	11.75	188	1158878	21.168ug/mL
75) Pyrene-d10	14.15	212	1029005	21.352ug/mL
86) Benzo(a)pyrene-d12	18.08	264	991920	20.716ug/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 : R:\G\2015\JUN15\02JUN15\GBC16F14.D Vial: 15
Acq On : 06/02/2015 21:34 Operator: DJC
Sample : 1514293014 F9L69 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:42:34 2015 Results File: GSOM01D4.RES

Method : R:\G\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)

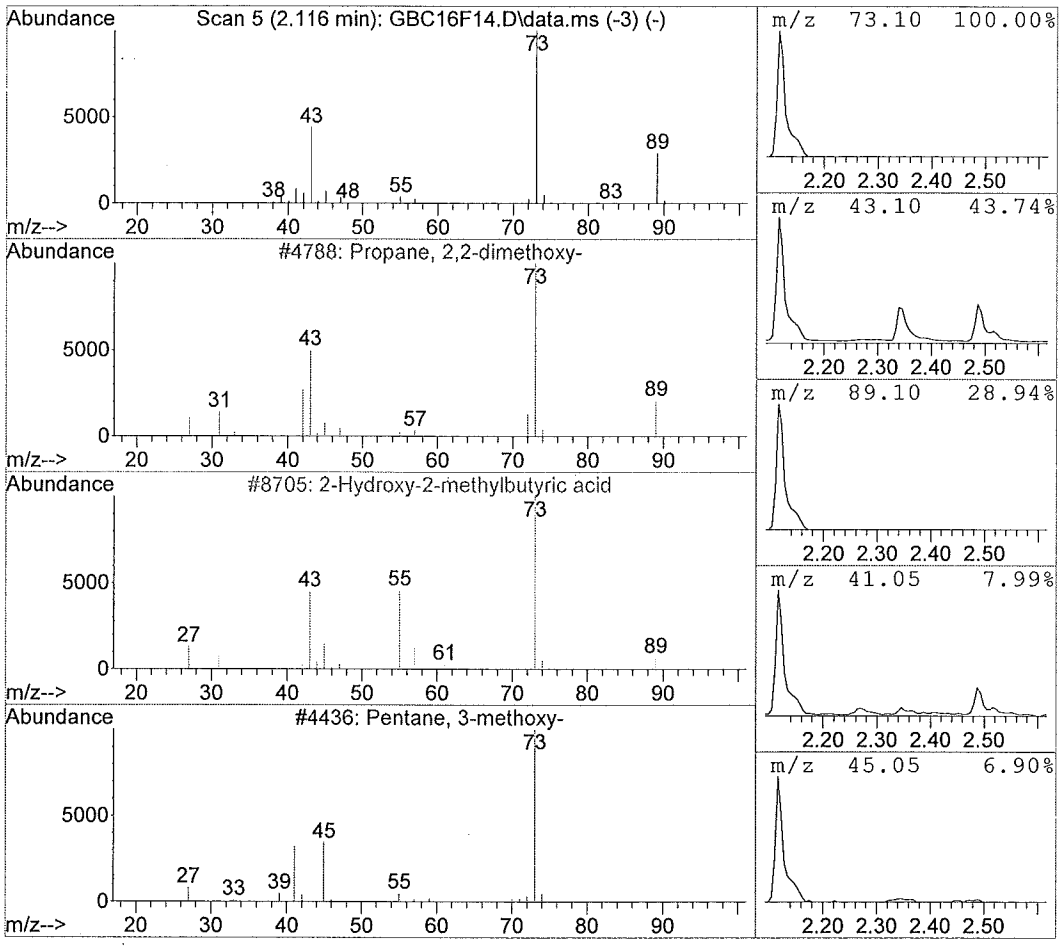
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC16F14.D Vial: 15
Acq On : 06/02/2015 21:34 Operator: DJC
Sample : 1514293014 F9L69 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.12	6.34 ug/ml	554373	1,4-Dichlorobenzene-d4	1747689

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 2,2-dimethoxy-	4788	000077-76-9	38.00
2	2-Hydroxy-2-methylbutyric acid	8705	003739-30-8	33.00
3	Pentane, 3-methoxy-	4436	036839-67-5	17.00
4	1-(2-Methoxyethoxy)-2-methyl-2-prop	32662	1000364-24-4	9.00
5	Propane, 2-methoxy-2-methyl-	2138	001634-04-4	9.00



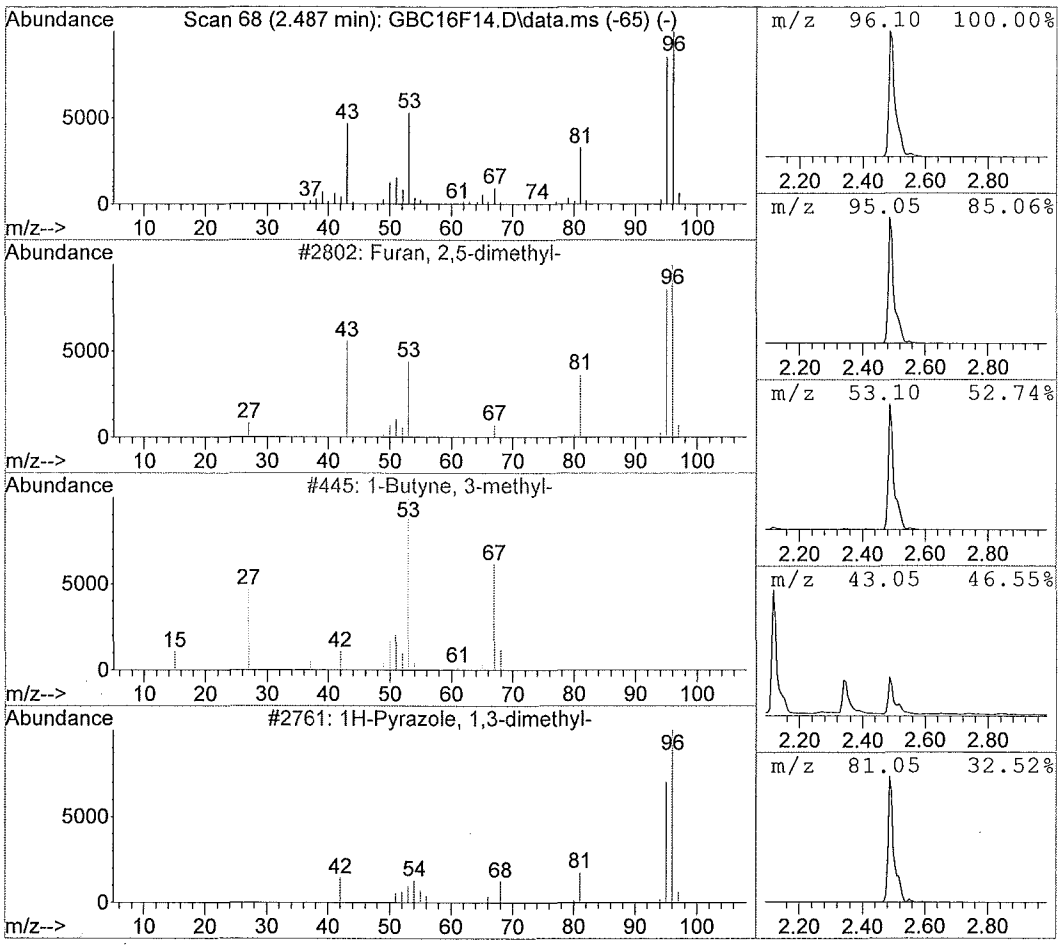
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC16F14.D Vial: 15
Acq On : 06/02/2015 21:34 Operator: DJC
Sample : 1514293014 F9L69 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	4.11 ug/ml	359568	1,4-Dichlorobenzene-d4	1747689

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Furan, 2,5-dimethyl-	2802	000625-86-5	95.00
2	1-Butyne, 3-methyl-	445	000598-23-2	38.00
3	1H-Pyrazole, 1,3-dimethyl-	2761	000694-48-4	38.00
4	1-Butyne, 3-chloro-	2000	021020-24-6	38.00
5	Furfural	2736	000098-01-1	38.00



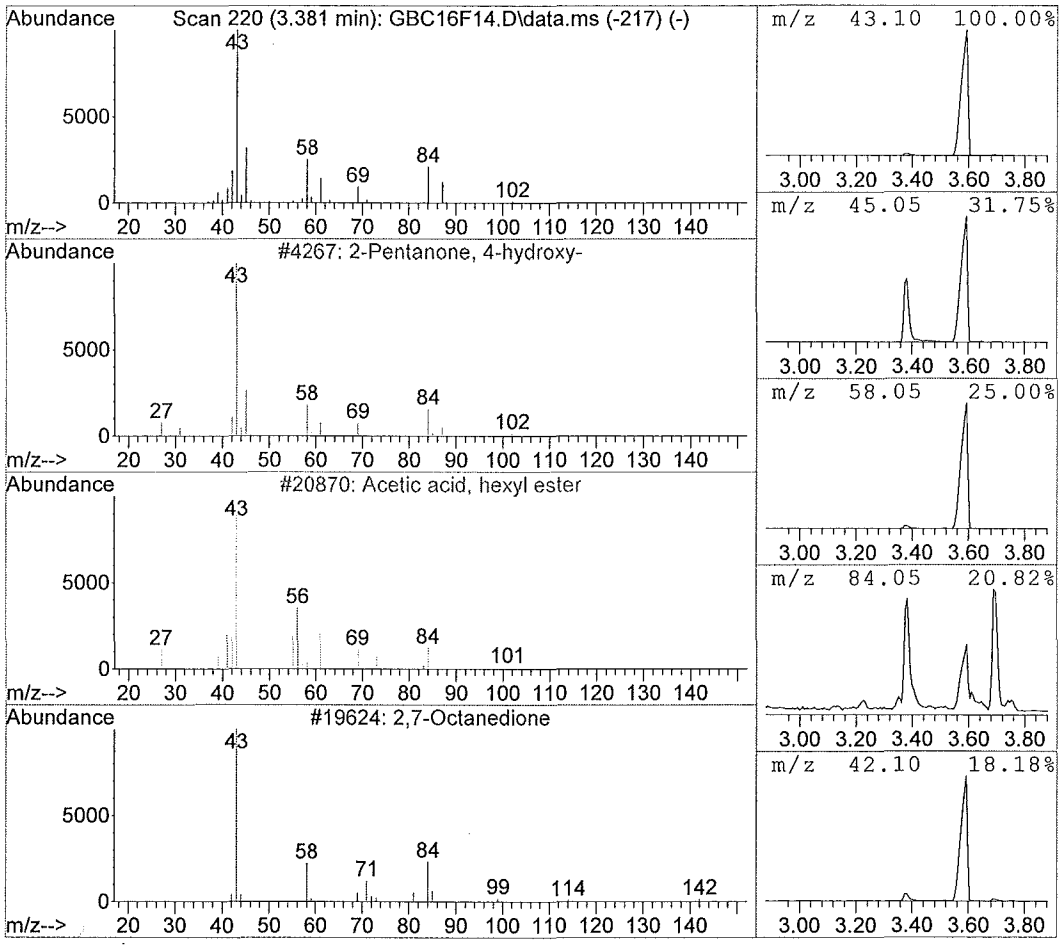
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC16F14.D Vial: 15
Acq On : 06/02/2015 21:34 Operator: DJC
Sample : 1514293014 F9L69 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	3.02 ug/ml	263847	1,4-Dichlorobenzene-d4	1747689

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	78.00
2	Acetic acid, hexyl ester	20870	000142-92-7	32.00
3	2,7-Octanedione	19624	001626-09-1	28.00
4	Ethanol, 2-methoxy-, acetate	8703	000110-49-6	12.00
5	Isopropyl acetate	4253	000108-21-4	12.00



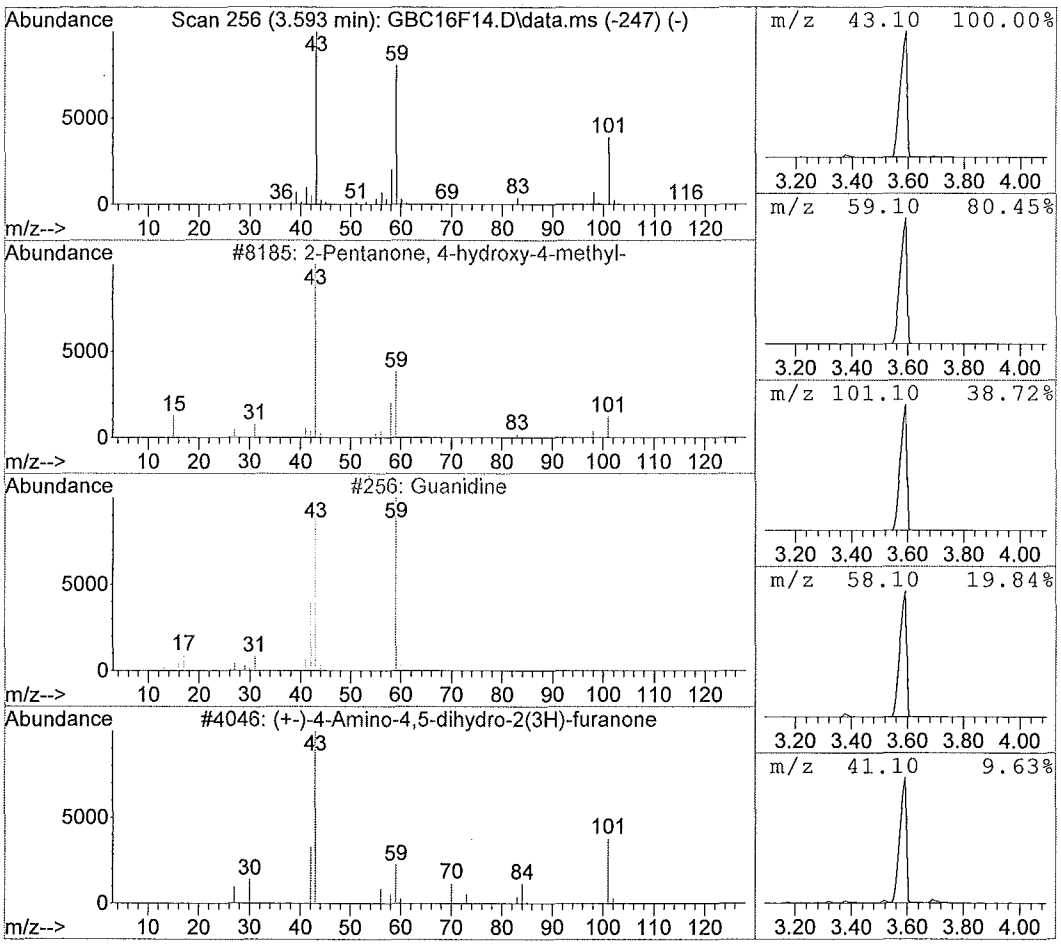
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC16F14.D Vial: 15
Acq On : 06/02/2015 21:34 Operator: DJC
Sample : 1514293014 F9L69 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.59	209.99 ug/ml	18350093	1,4-Dichlorobenzene-d4	1747689

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	50.00
2	Guanidine	256	000113-00-8	43.00
3	(+-)-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



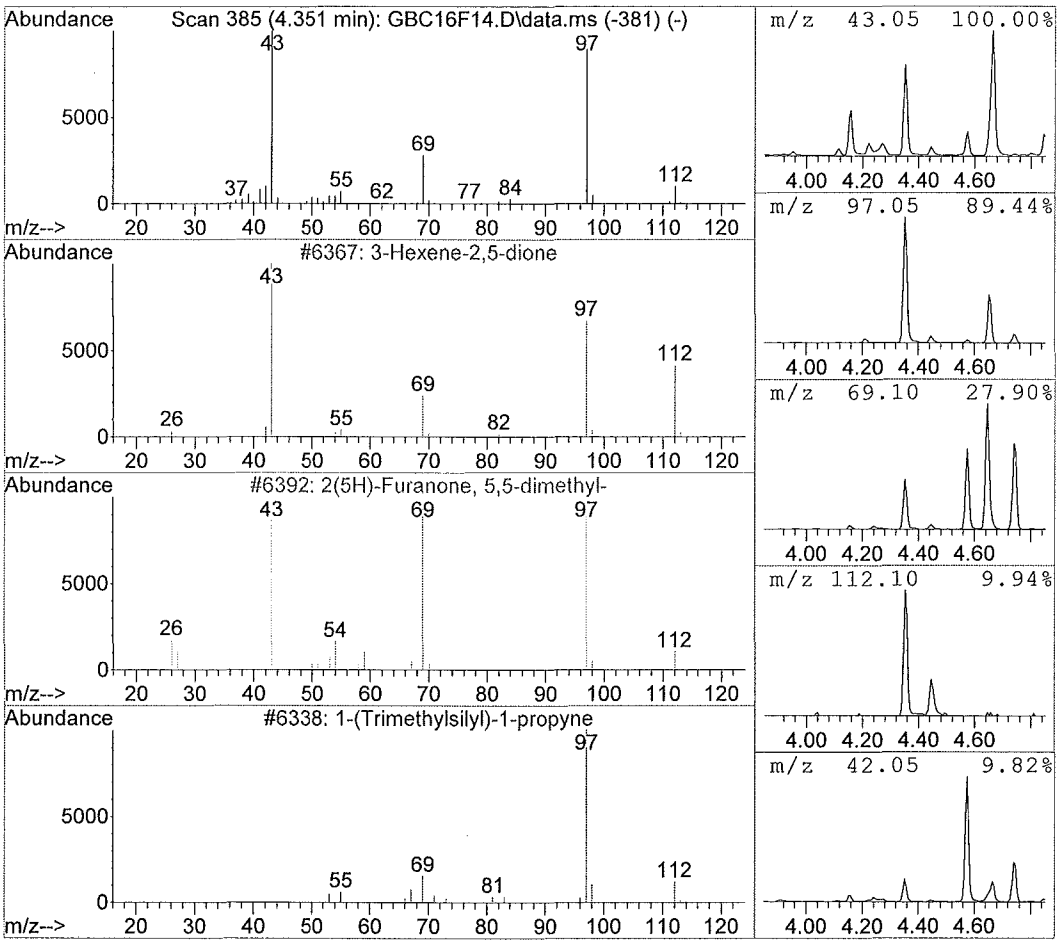
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC16F14.D Vial: 15
Acq On : 06/02/2015 21:34 Operator: DJC
Sample : 1514293014 F9L69 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	3.38 ug/ml	295460	1,4-Dichlorobenzene-d4	1747689

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	1-(Trimethylsilyl)-1-propyne	6338	006224-91-5	36.00
4	1,2-Ethanediol, 1,2-di-2-furanyl-	55743	004464-77-1	33.00
5	5-Hexen-2-one, 5-methyl-	6529	003240-09-3	10.00



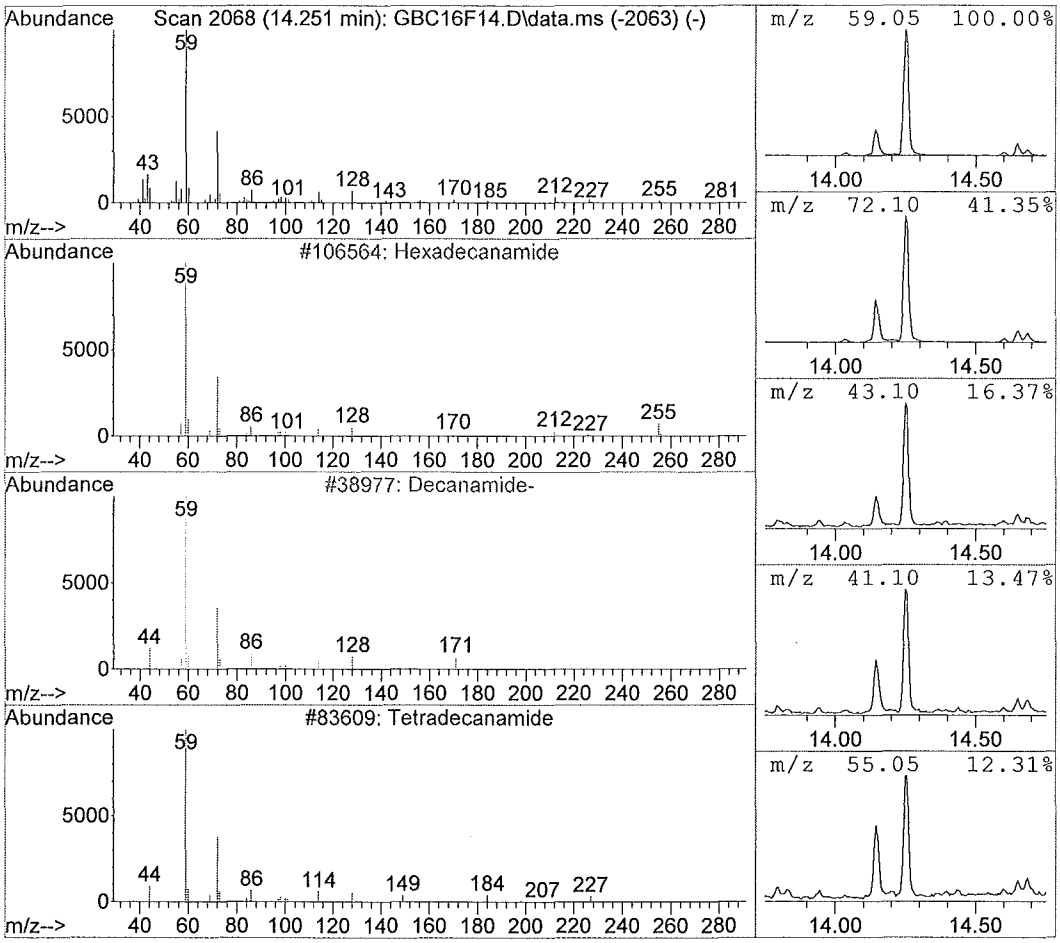
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC16F14.D Vial: 15
Acq On : 06/02/2015 21:34 Operator: DJC
Sample : 1514293014 F9L69 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	2.82 ug/ml	424866	Chrysene-d12	3012939

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	97.00
2	Decanamide-	38977	002319-29-1	91.00
3	Tetradecanamide	83609	000638-58-4	90.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00
5	Dodecanamide	60439	001120-16-7	64.00



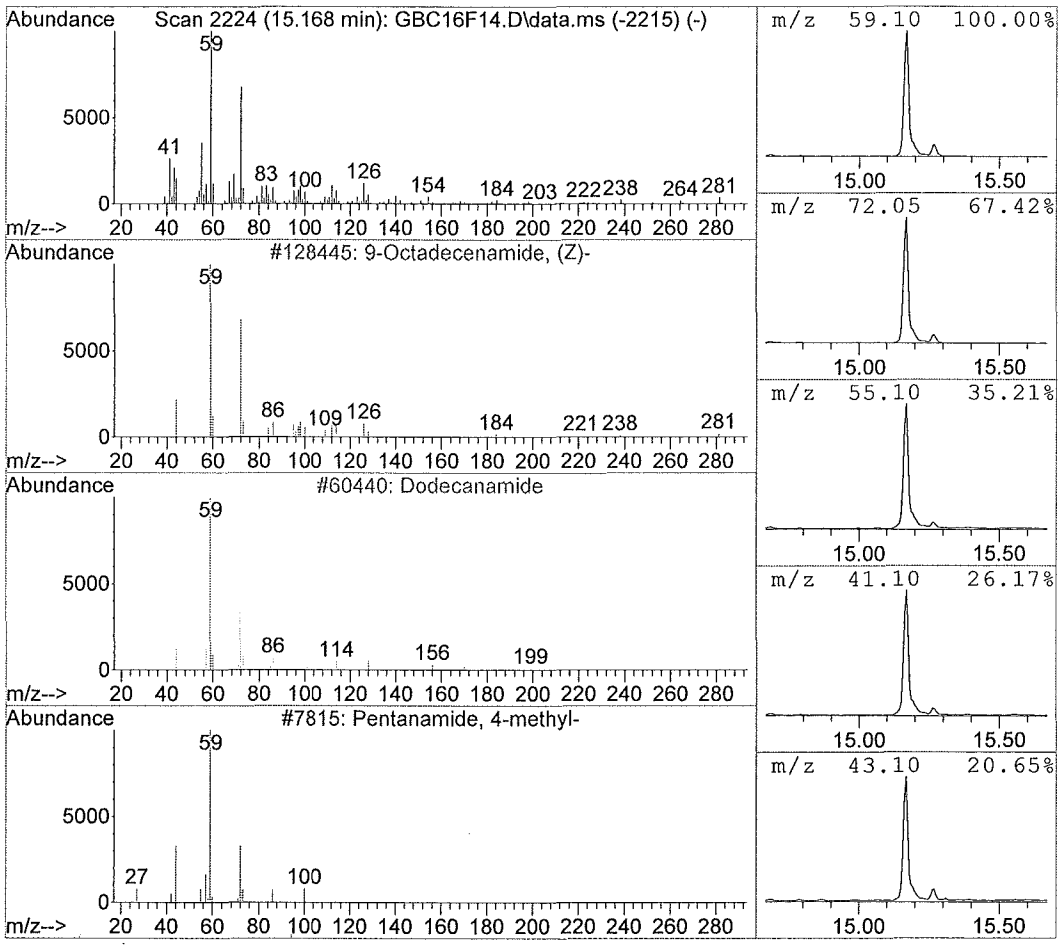
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC16F14.D Vial: 15
Acq On : 06/02/2015 21:34 Operator: DJC
Sample : 1514293014 F9L69 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	20.04 ug/ml	3019694	Chrysene-d12	3012939

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	Dodecanamide	60440	001120-16-7	50.00
3	Pentanamide, 4-methyl-	7815	001119-29-5	47.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	45.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	42.00



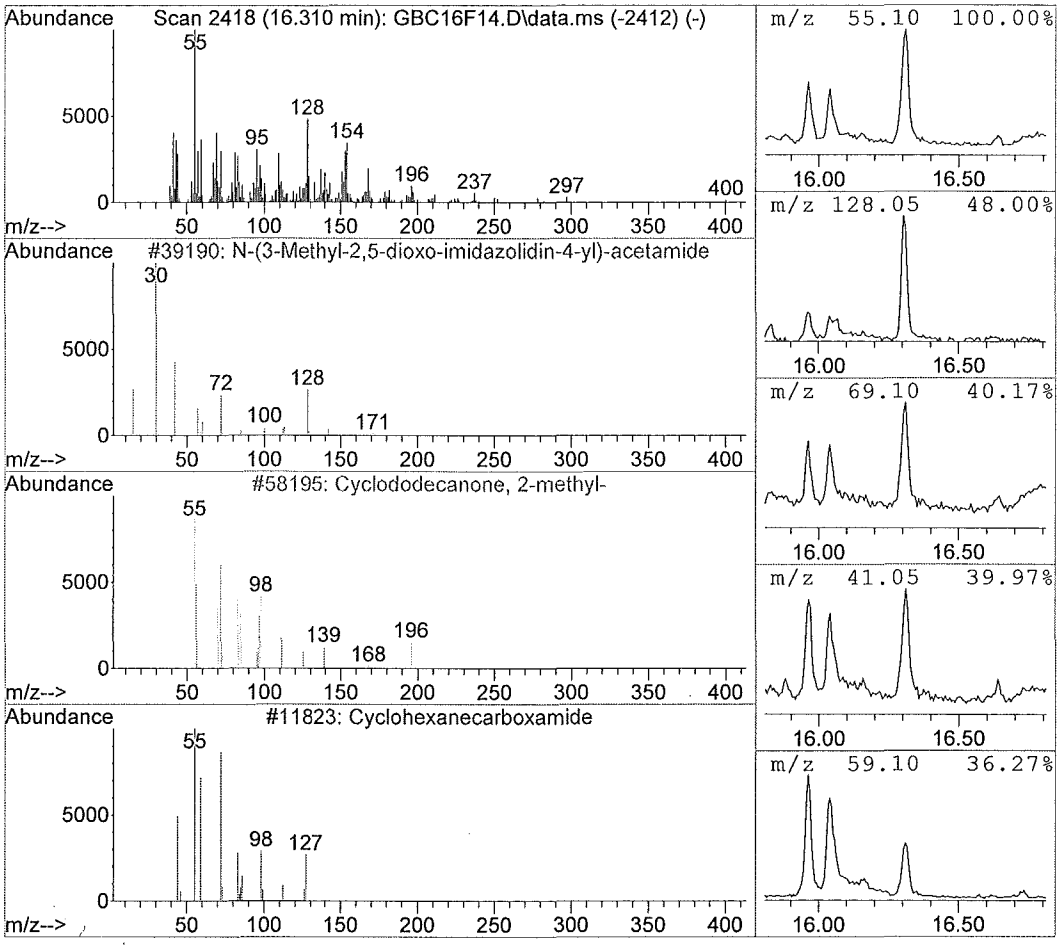
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC16F14.D Vial: 15
Acq On : 06/02/2015 21:34 Operator: DJC
Sample : 1514293014 F9L69 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.31	2.02 ug/ml	303878	Chrysene-d12	3012939

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	N-(3-Methyl-2,5-dioxo-imidazolidin-	39190	1000287-36-8	14.00
2	Cyclododecanone, 2-methyl-	58195	016837-94-8	11.00
3	Cyclohexanecarboxamide	11823	001122-56-1	11.00
4	Chloromethyl 9-chlorodecanoate	105071	080418-86-6	10.00
5	5-Allyldihydro-1,3,5-dioxazine	12864	016574-19-9	10.00



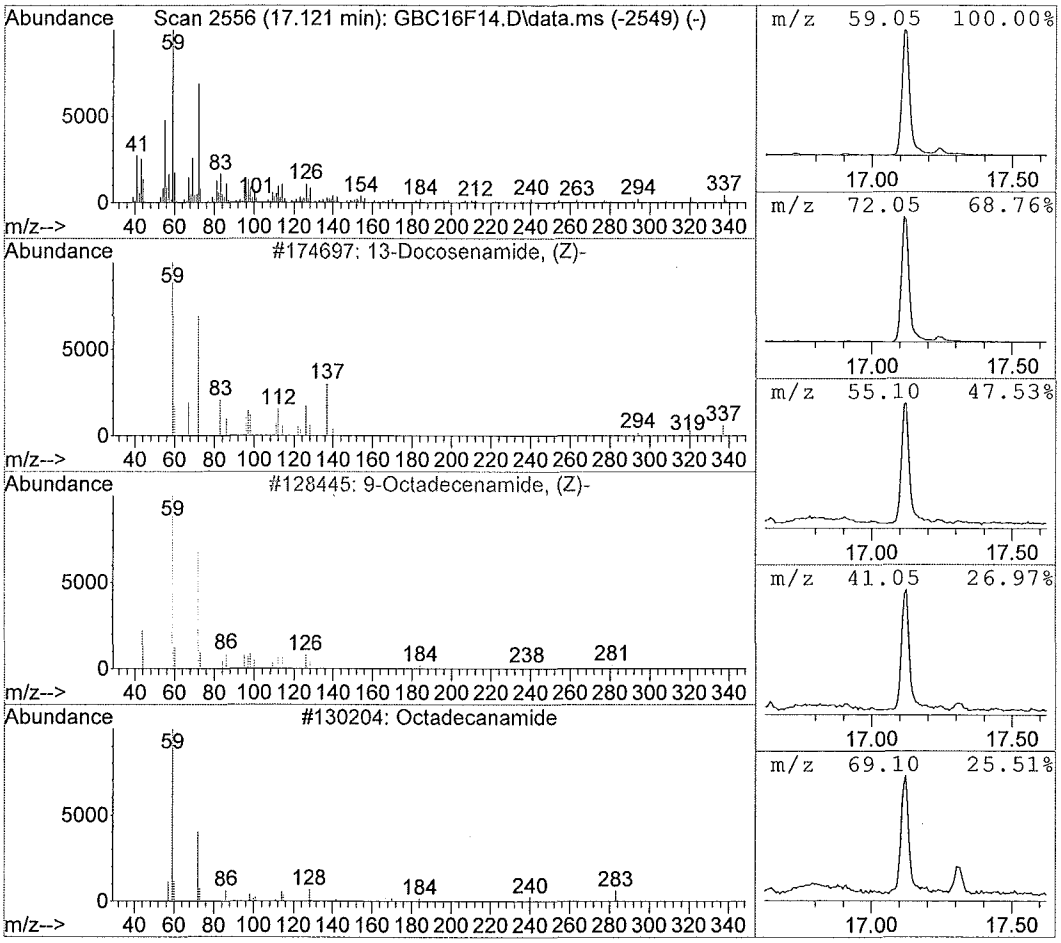
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC16F14.D Vial: 15
Acq On : 06/02/2015 21:34 Operator: DJC
Sample : 1514293014 F9L69 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	5.27 ug/ml	823739	Perylene-d12	3128616

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174697	000112-84-5	93.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	90.00
3	Octadecanamide	130204	000124-26-5	59.00
4	Dodecanamide	60440	001120-16-7	43.00
5	2-Methyl-2-decanol	39795	003396-02-9	35.00



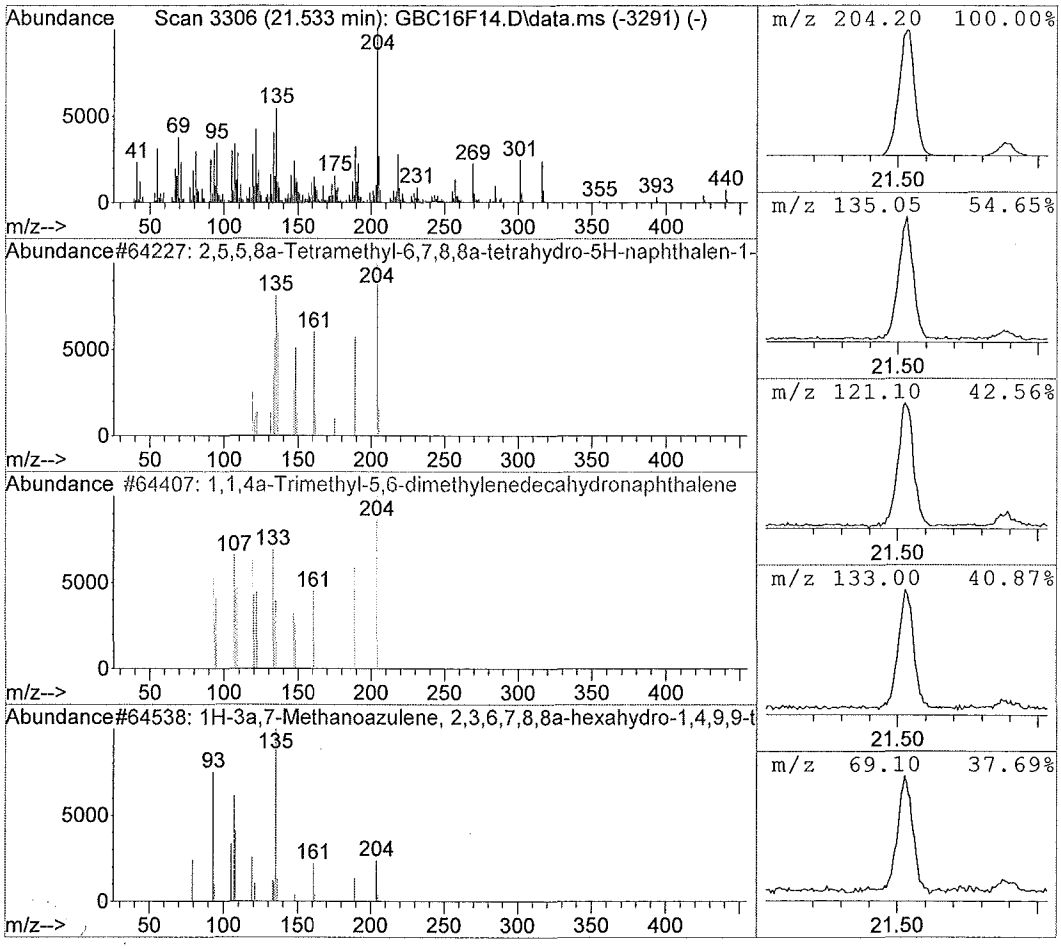
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC16F14.D Vial: 15
Acq On : 06/02/2015 21:34 Operator: DJC
Sample : 1514293014 F9L69 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	8.69 ug/ml	1359214	Perylene-d12	3128616

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	45.00
2	1,1,4a-Trimethyl-5,6-dimethylenedec	64407	1000193-60-8	45.00
3	1H-3a,7-Methanoazulene, 2,3,6,7,8,8	64538	000560-32-7	41.00
4	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64569	000489-40-7	38.00
5	3H-3a,7-Methanoazulene, 2,4,5,6,7,8	64520	002387-78-2	25.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L70

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293015

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCM10F15

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/06/2015

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L70

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293015

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCM10F15

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/06/2015

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9L70

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293015

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCM10F15

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/06/2015

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	814-78-8	3-Buten-2-one, 3-methyl-	2.20	87.	JN
02		Unknown Methacrylamide	2.81	180	J
03		Unknown 2-Pentanone, 4-hydroxy-	3.30	210	J
04		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.50	7000	J
05		Unknown Propane, 1-(1-methylethoxy)-	4.07	99.	J
06		Unknown 1H-Pyrrole-2,5-dione	4.28	970	J
07		Unknown 2-Pentanone	4.77	230	J
08		Unknown Cyclohexene, 3-methyl-6-(1-methylethyl)-	12.13	140	J
09	5129-60-2	Pentadecanoic acid, 14-methyl-, methyl ester	12.40	140	JN
10	1120-16-7	Dodecanamide	12.76	80.	JN
11	17309-05-6	9,15-Octadecadienoic acid, methyl ester, (Z,Z)-	13.64	110	JN
12	13481-95-3	10-Octadecenoic acid, methyl ester	13.68	110	JN
13	1120-16-7	Dodecanamide	14.14	230	JN
14	301-02-0	9-Octadecenamide, (Z)-	15.07	1500	JNB
15		Unknown 7-Nonenamide	15.86	93.	J
16		Unknown 7-Nonenamide	15.93	76.	J
17		Unknown 7,7-Dimethyl-2,3-dioxobicyclo[2.2.1]hept	16.20	160	J
18	301-02-0	9-Octadecenamide, (Z)-	16.97	330	JN
19		Unknown Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	21.20	800	J
20		Unknown 28-Norolean-17-en-3-one	22.89	400	J
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	920	J

[2] EPA-designated Registry Number.

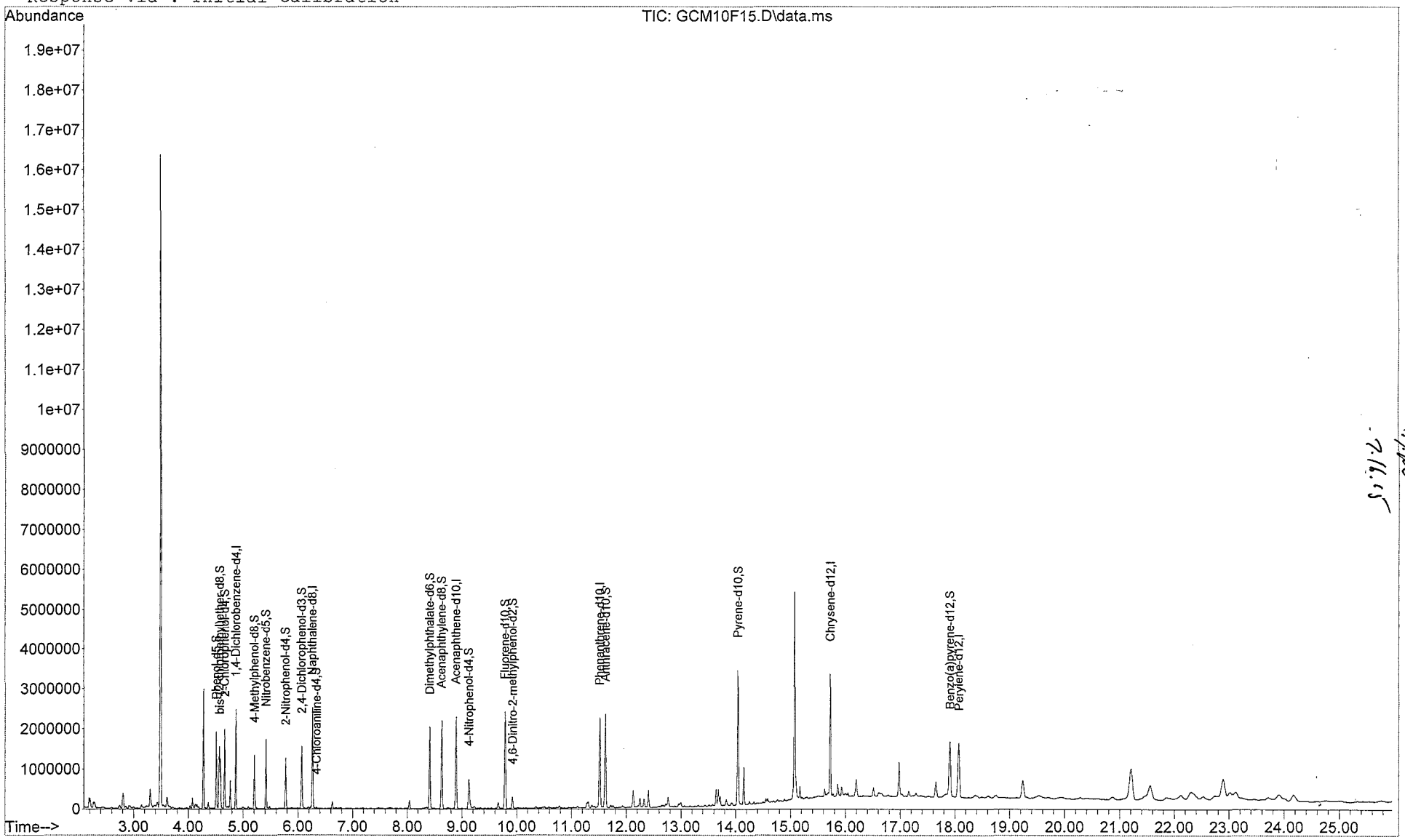
Quantitation Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM10F15.D
Acq On : 07/06/2015 19:34
Sample : 1514293015 F9L70
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 17
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 15 14:14:20 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM10F15.D Vial: 17
Acq On : 07/06/2015 19:34 Operator: TJM
Sample : 1514293015 F9L70 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 15 14:14:20 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	318578	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1185731	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	699962	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1241039	20.00 ug/ml
73) Chrysene-d12	15.72	240	1243932	20.00 ug/ml
81) Perylene-d12	18.07	264	993142	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	548882	19.799ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	339560	15.717ug/mL
7) 2-Chlorophenol-d4	4.66	132	432270	18.467ug/ml
13) 4-Methylphenol-d8	5.20	113	267230	14.411ug/mL
17) Nitrobenzene-d5	5.42	128	192404	18.471ug/ml
21) 2-Nitrophenol-d4	5.77	143	204729	18.595ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	347193	20.252ug/mL
28) 4-Chloroaniline-d4	6.33	131	16177	0.864ug/mL
42) Dimethylphthalate-d6	8.41	166	1051658	23.960ug/mL
45) Acenaphthylene-d8	8.63	160	1314137	22.031ug/mL
50) 4-Nitrophenol-d4	9.13	143	169455	18.925ug/mL
57) Fluorene-d10	9.79	176	901738	24.057ug/mL
61) 4,6-Dinitro-2-methylphenol	9.92	200	46380	5.265ug/mL
69) Anthracene-d10	11.62	188	1426741	21.679ug/mL
75) Pyrene-d10	14.04	212	1428791	23.016ug/mL
86) Benzo(a)pyrene-d12	17.91	264	1006164	21.143ug/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 : R:\G\2015\JUL15\06JUL15PM\GCM10F15.D Vial: 17
Acq On : 07/06/2015 19:34 Operator: TJM
Sample : 1514293015 F9L70 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 15 14:14:20 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 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)

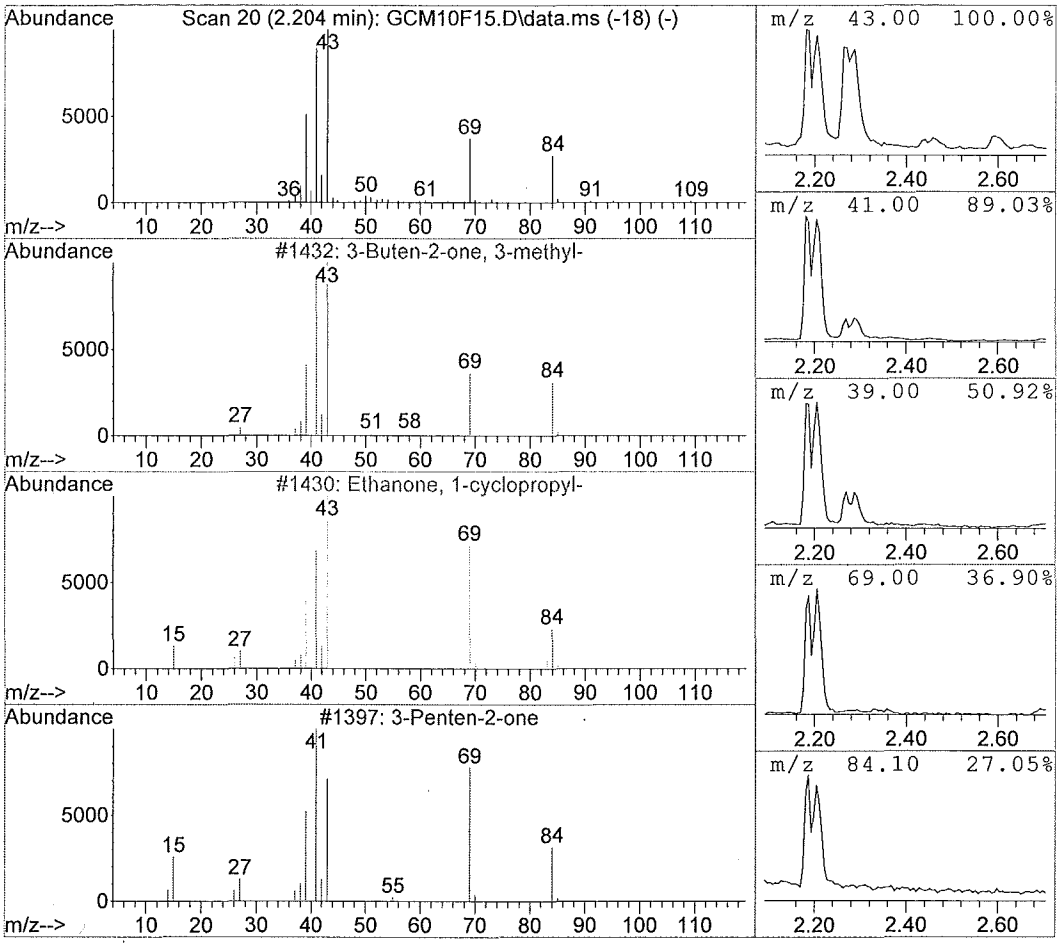
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM10F15.D Vial: 17
Acq On : 07/06/2015 19:34 Operator: TJM
Sample : 1514293015 F9L70 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.20	2.35 ug/ml	266324	1,4-Dichlorobenzene-d4	2264356

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Buten-2-one, 3-methyl-	1432	000814-78-8	91.00
2	Ethanone, 1-cyclopropyl-	1430	000765-43-5	90.00
3	3-Penten-2-one	1397	000625-33-2	72.00
4	Propane, 1-nitro-	2166	000108-03-2	39.00
5	Cyclopropanecarboxylic acid, cycloh	36453	1000278-70-7	25.00



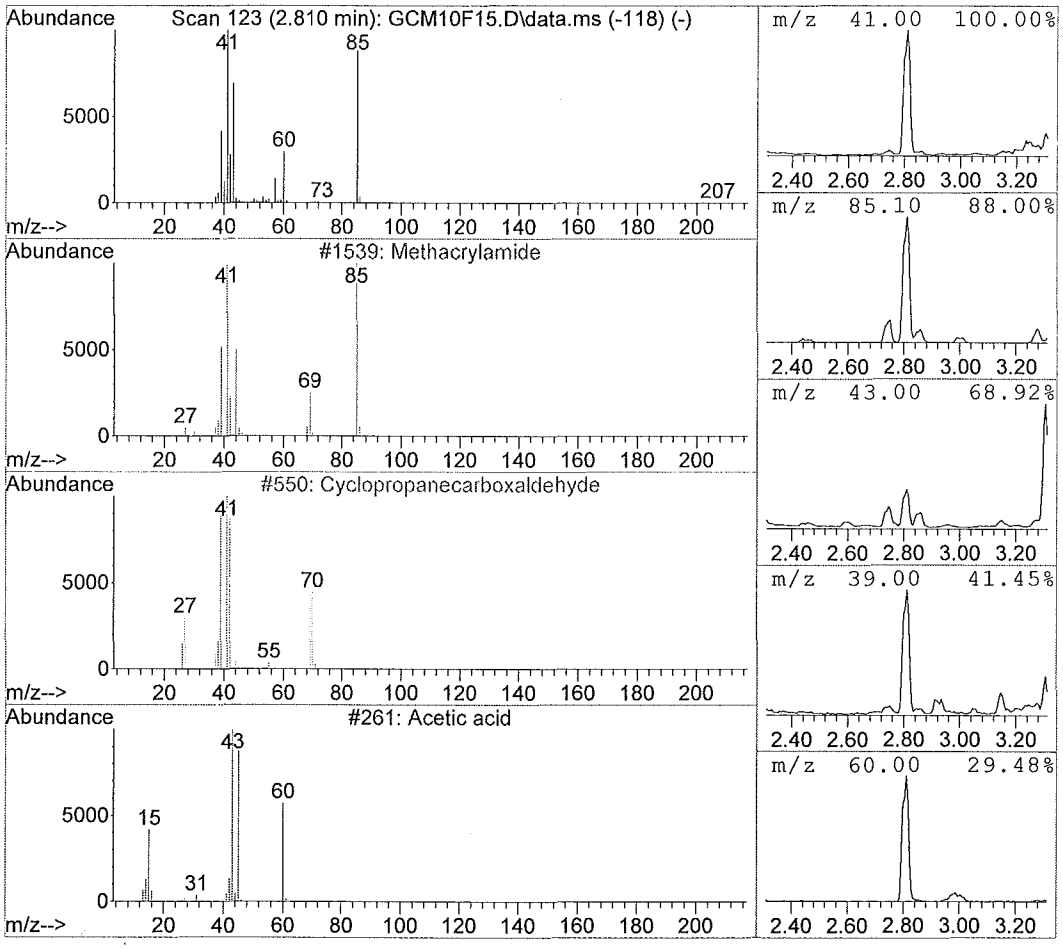
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM10F15.D Vial: 17
Acq On : 07/06/2015 19:34 Operator: TJM
Sample : 1514293015 F9L70 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.81	4.96 ug/ml	561336	1,4-Dichlorobenzene-d4	2264356

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methacrylamide	1539	000079-39-0	53.00
2	Cyclopropanecarboxaldehyde	550	001489-69-6	10.00
3	Acetic acid	261	000064-19-7	9.00
4	Thiazole	1533	000288-47-1	9.00
5	2H-Pyran-2-one, tetrahydro-6,6-dime	12312	002610-95-9	9.00



: 00357

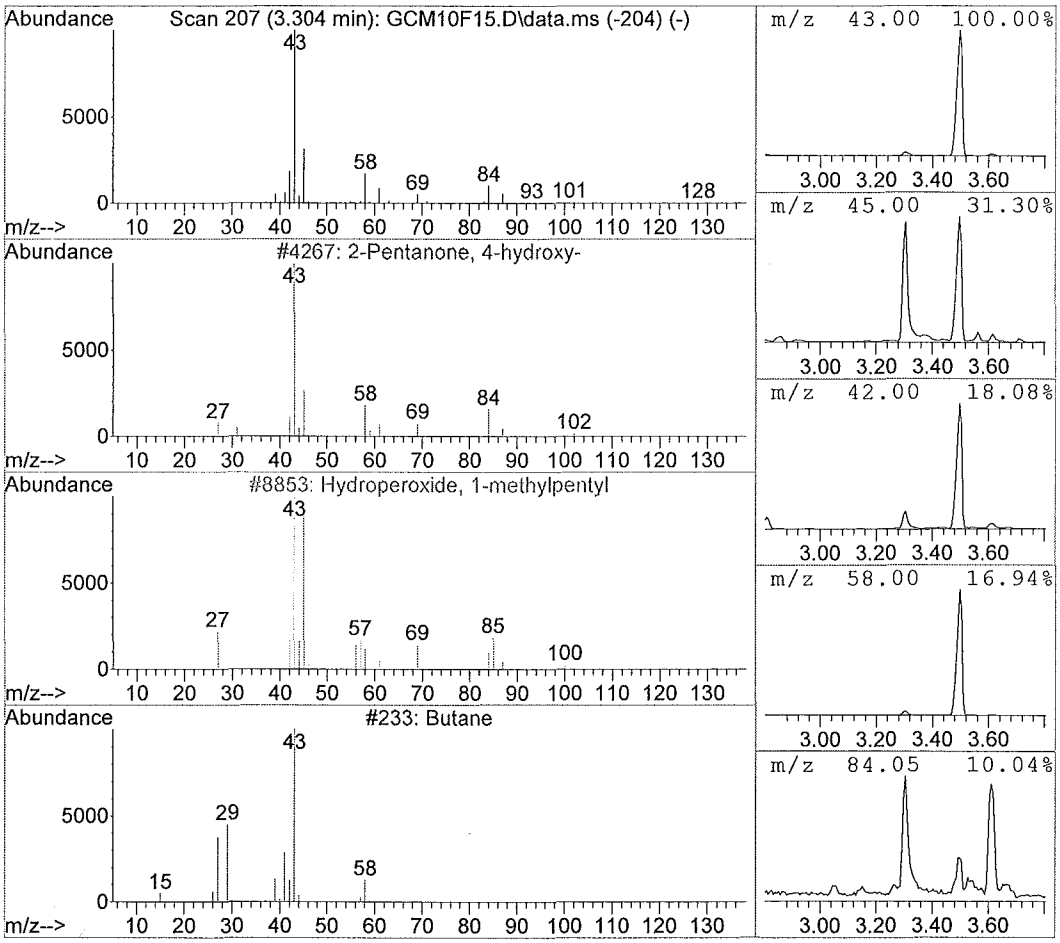
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM10F15.D Vial: 17
Acq On : 07/06/2015 19:34 Operator: TJM
Sample : 1514293015 F9L70 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.30	5.57 ug/ml	630506	1,4-Dichlorobenzene-d4	2264356

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	42.00
2	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	33.00
3	Butane	233	000106-97-8	9.00
4	Acetone	217	000067-64-1	9.00
5	Isopropyl acetate	4253	000108-21-4	9.00



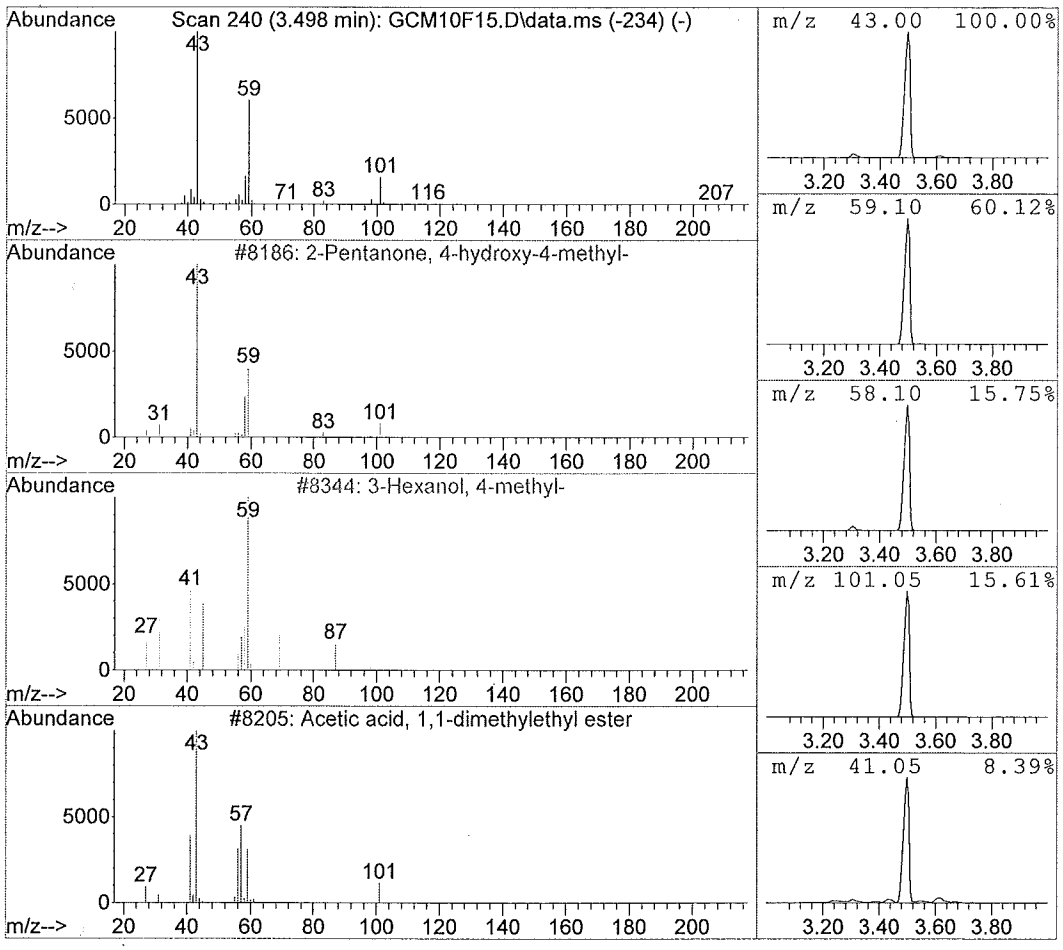
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM10F15.D Vial: 17
Acq On : 07/06/2015 19:34 Operator: TJM
Sample : 1514293015 F9L70 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.50	189.27 ug/ml	21428712	1,4-Dichlorobenzene-d4	2264356

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
2	3-Hexanol, 4-methyl-	8344	000615-29-2	33.00
3	Acetic acid, 1,1-dimethylethyl este	8205	000540-88-5	28.00
4	2-Hexanol, 2-methyl-	8346	000625-23-0	28.00
5	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	23.00



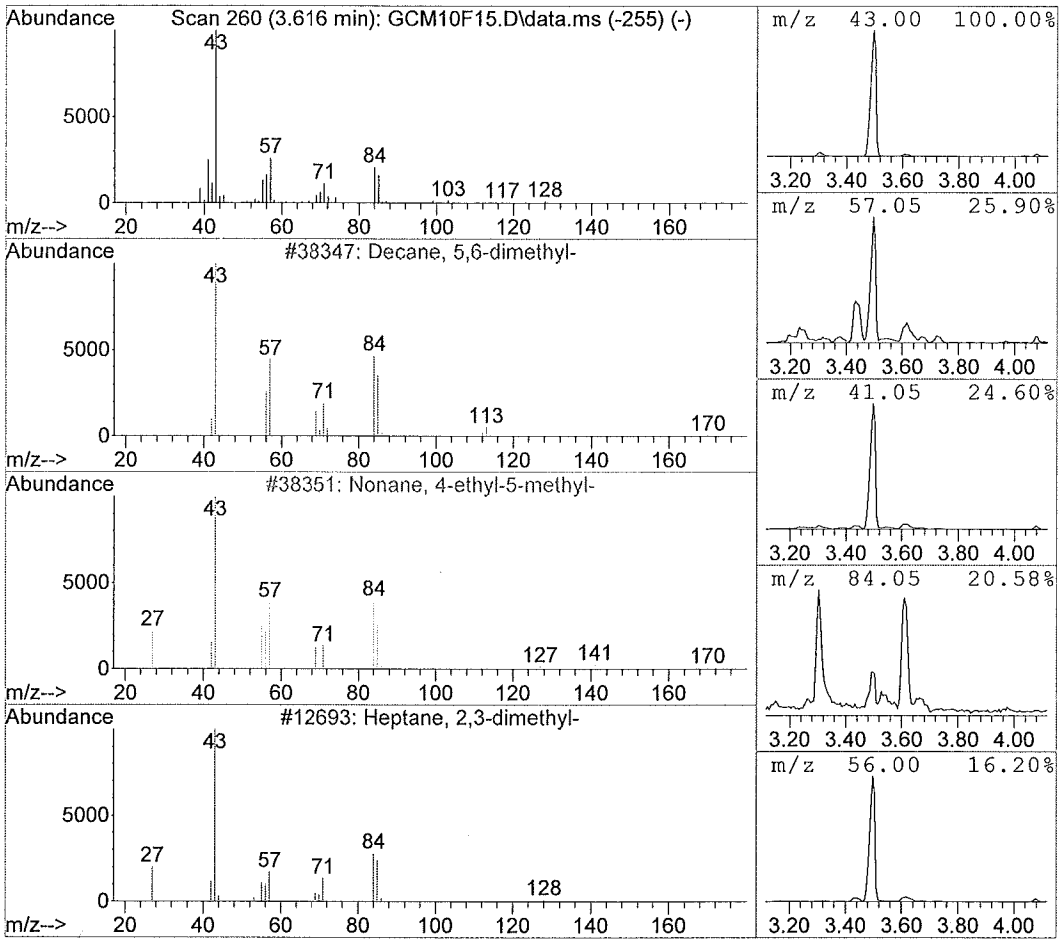
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM10F15.D Vial: 17
Acq On : 07/06/2015 19:34 Operator: TJM
Sample : 1514293015 F9L70 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.62	3.97 ug/ml	449410	1,4-Dichlorobenzene-d4	2264356

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decane, 5,6-dimethyl-	38347	001636-43-7	78.00
2	Nonane, 4-ethyl-5-methyl-	38351	001632-71-9	72.00
3	Heptane, 2,3-dimethyl- BA	12693	003074-71-3	58.00
4	Heptane, 4-ethyl-	12666	002216-32-2	50.00
5	Octane	7619	000111-65-9	47.00



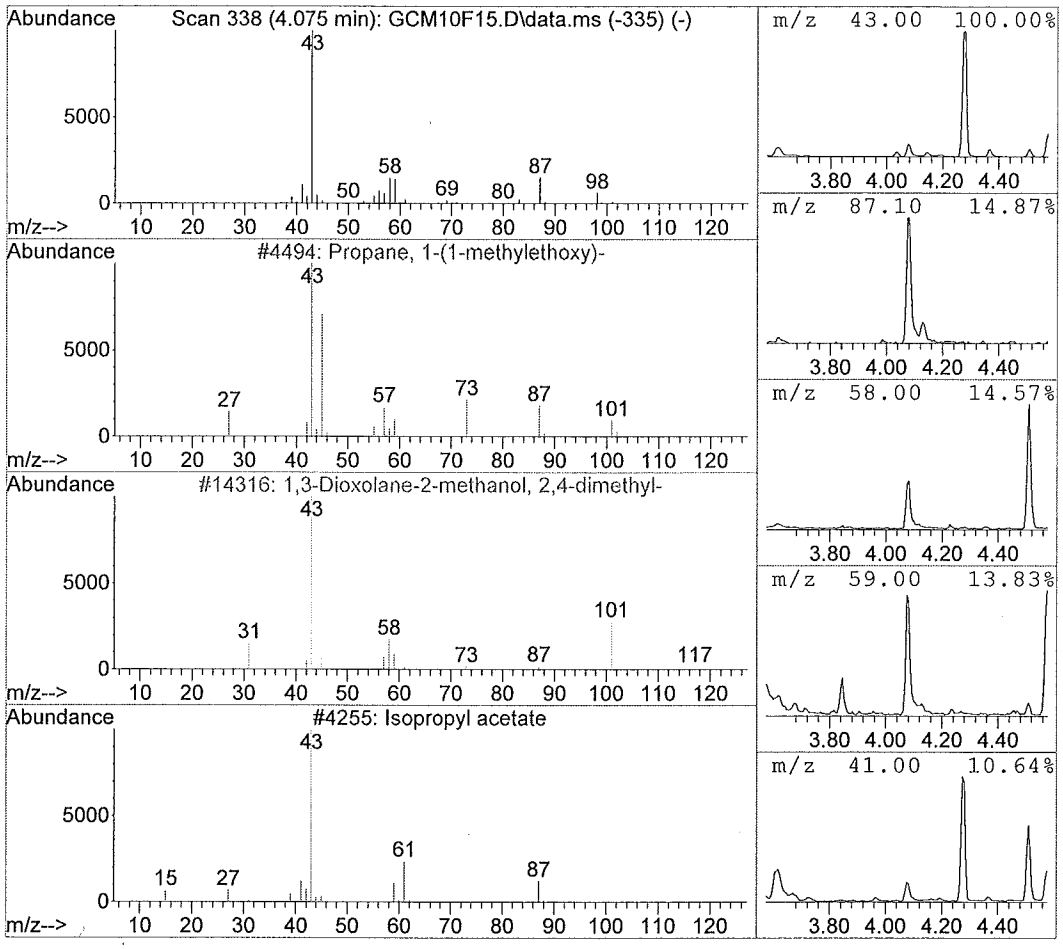
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM10F15.D Vial: 17
Acq On : 07/06/2015 19:34 Operator: TJM
Sample : 1514293015 F9L70 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.07	2.67 ug/ml	302157	1,4-Dichlorobenzene-d4	2264356

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 1-(1-methylethoxy)-	4494	000627-08-7	33.00
2	1,3-Dioxolane-2-methanol, 2,4-dimet	14316	053951-43-2	33.00
3	Isopropyl acetate	4255	000108-21-4	25.00
4	S-(-)-2-Methylbutylamine	1929	020626-52-2	9.00
5	Acetaldehyde, O-ethyloxime-	1897	1000288-34-6	9.00



Library Search Compound Report

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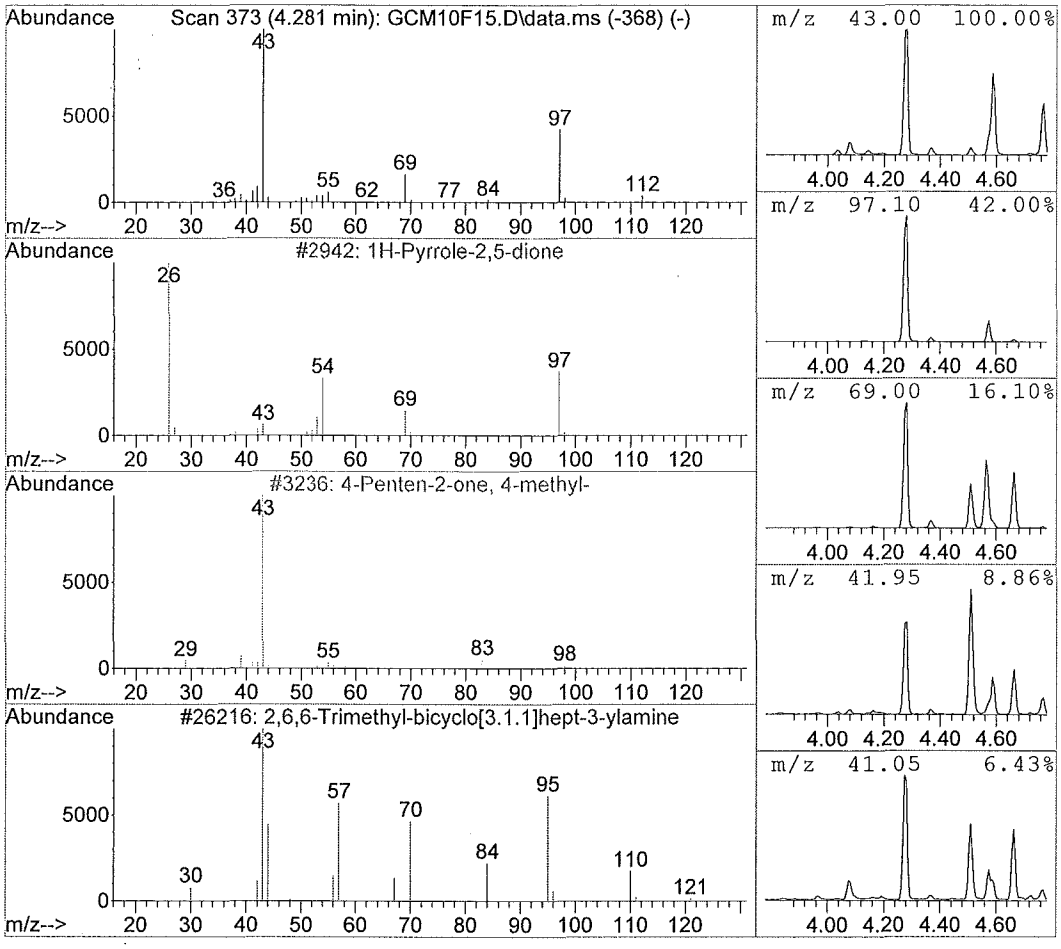
Acq On : 07/06/2015 19:34 Operator: TJM
Sample : 1514293015 F9L70 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.28	26.18 ug/ml	2964483	1,4-Dichlorobenzene-d4	2264356

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	38.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	2,6,6-Trimethyl-bicyclo[3.1.1]hept-	26216	069460-11-3	9.00
4	5-Hexen-2-one	3152	000109-49-9	9.00
5	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00



Library Search Compound Report

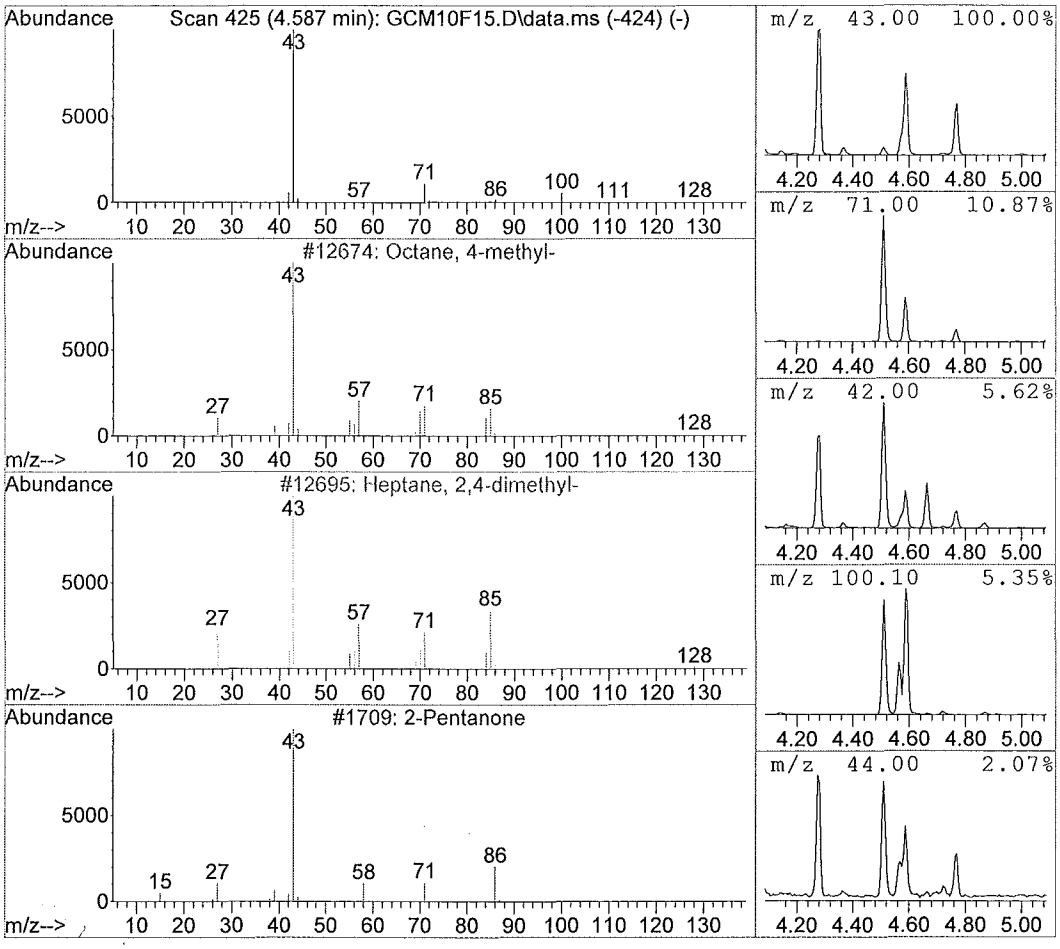
Data File : R:\G\2015\JUL15\06JUL15PM\GCM10F15.D Vial: 17
Acq On : 07/06/2015 19:34 Operator: TJM
Sample : 1514293015 F9L70 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.59	7.83 ug/ml	886226	1,4-Dichlorobenzene-d4	2264356

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octane, 4-methyl-	12674	002216-34-4	9.00
2	Heptane, 2,4-dimethyl-	12695	002213-23-2	9.00
3	2-Pentanone	1709	000107-87-9	9.00
4	Heptane, 2,3-dimethyl-	12694	003074-71-3	7.00
5	Heptane	3970	000142-82-5	7.00

BA



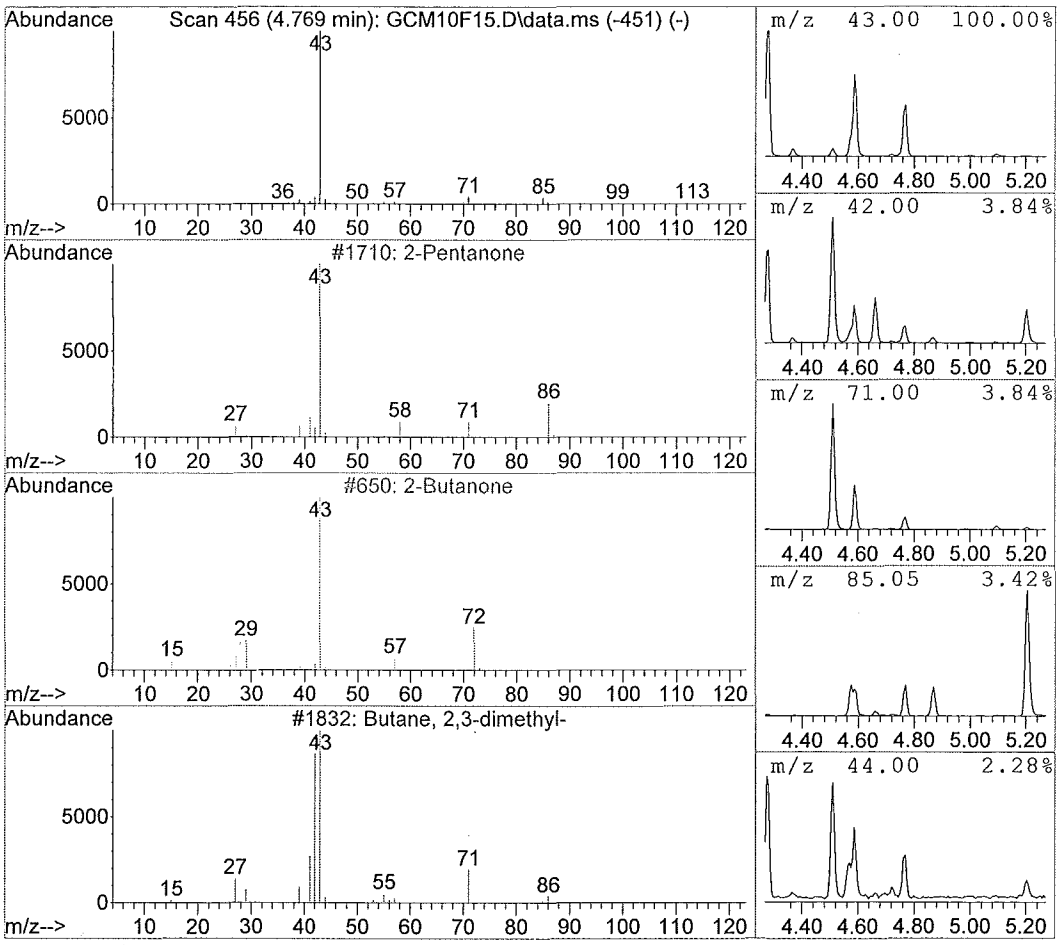
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM10F15.D Vial: 17
Acq On : 07/06/2015 19:34 Operator: TJM
Sample : 1514293015 F9L70 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.77	6.12 ug/ml	693389	1,4-Dichlorobenzene-d4	2264356

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone	1710	000107-87-9	4.00
2	2-Butanone	650	000078-93-3	4.00
3	Butane, 2,3-dimethyl-	1832	000079-29-8	3.00
4	5-Methyloxazolidine	1878	058328-22-6	3.00
5	Hydrogen azide	70	007782-79-8	2.00



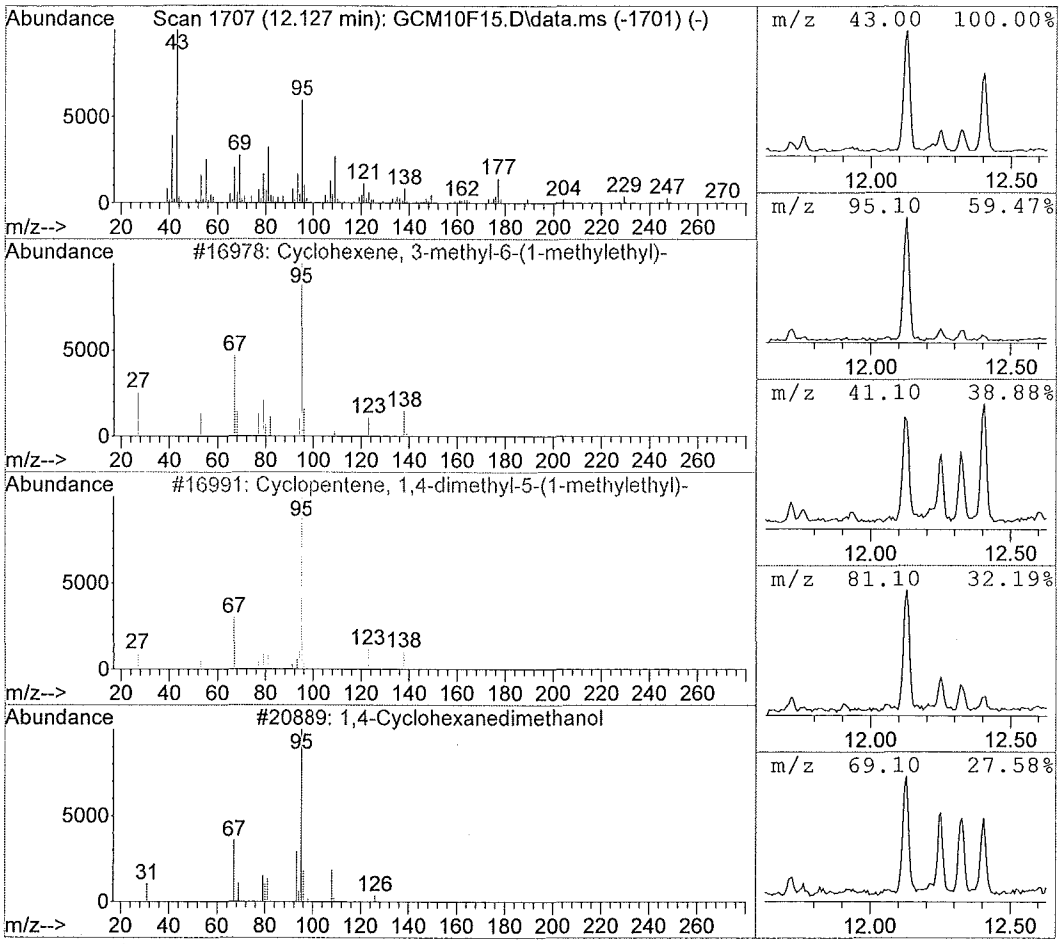
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM10F15.D Vial: 17
Acq On : 07/06/2015 19:34 Operator: TJM
Sample : 1514293015 F9L70 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.13	3.83 ug/ml	630413	Phenanthrene-d10	3291437

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexene, 3-methyl-6-(1-methylet	16978	005256-65-5	43.00
2	Cyclopentene, 1,4-dimethyl-5-(1-met	16991	061142-33-4	43.00
3	1,4-Cyclohexanedimethanol	20889	000105-08-8	38.00
4	6-Methyl-2-heptyne	5920	051065-64-6	38.00
5	6-Acetamido-1,4-benzodioxane	55145	063546-19-0	38.00



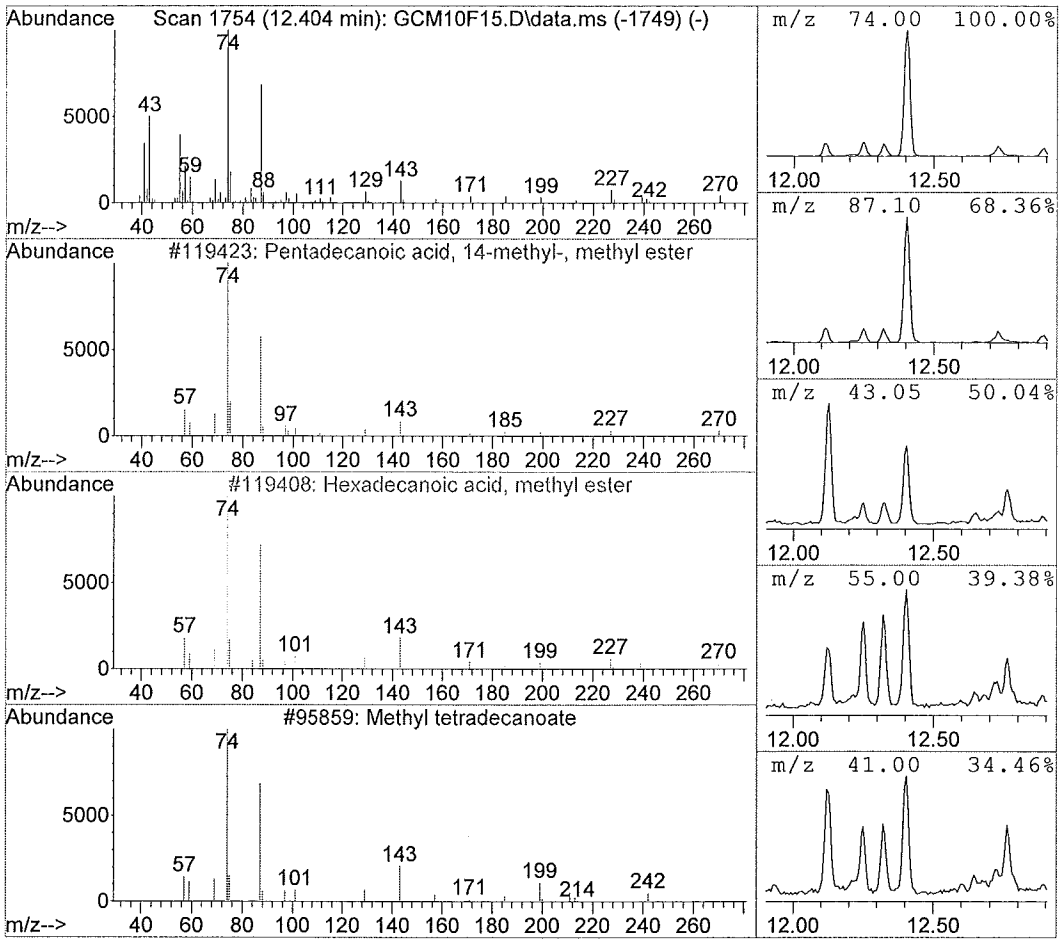
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM10F15.D Vial: 17
Acq On : 07/06/2015 19:34 Operator: TJM
Sample : 1514293015 F9L70 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.40	3.68 ug/ml	605275	Phenanthrene-d10	3291437

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	98.00
2	Hexadecanoic acid, methyl ester	119408	000112-39-0	97.00
3	Methyl tetradecanoate	95859	000124-10-7	94.00
4	Pentadecanoic acid, methyl ester	107596	007132-64-1	90.00
5	Tridecanoic acid, methyl ester	84485	001731-88-0	87.00



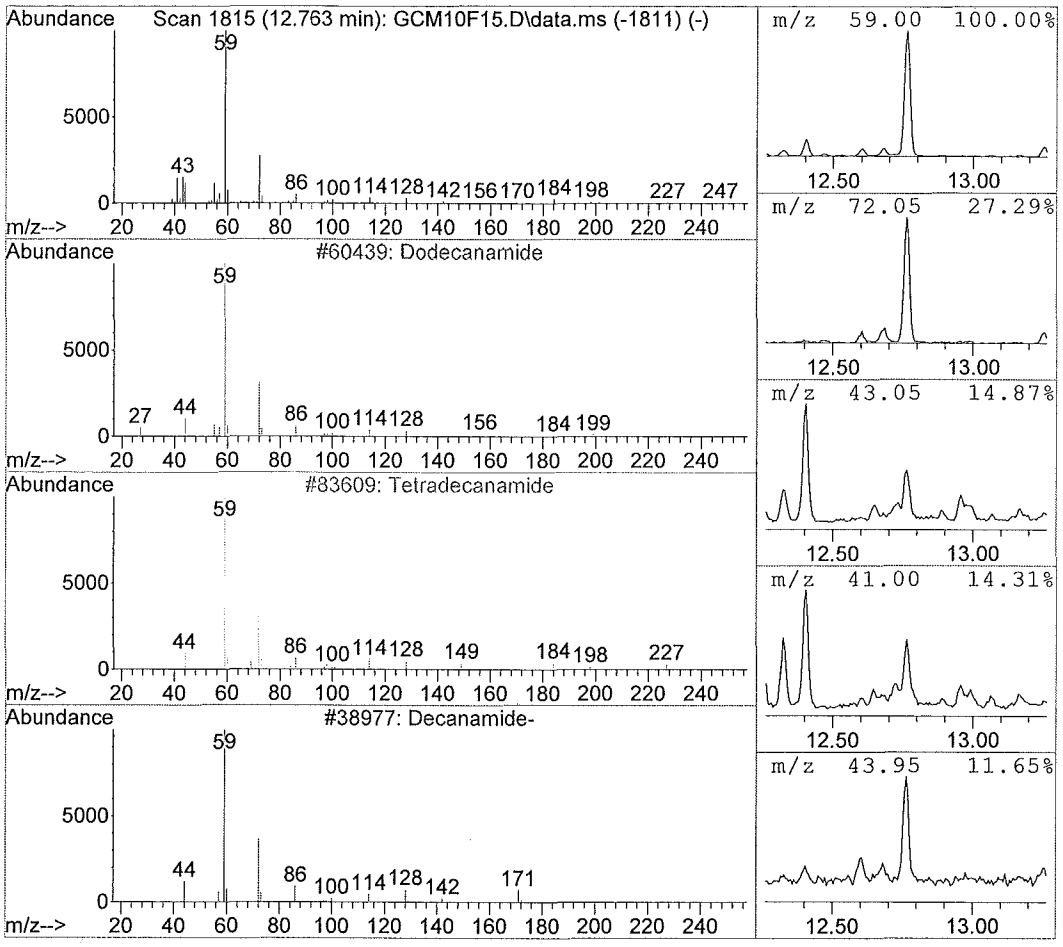
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM10F15.D Vial: 17
Acq On : 07/06/2015 19:34 Operator: TJM
Sample : 1514293015 F9L70 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.76	2.16 ug/ml	355295	Phenanthrene-d10	3291437

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Tetradecanamide	83609	000638-58-4	83.00
3	Decanamide-	38977	002319-29-1	83.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
5	Nonanamide	29478	001120-07-6	83.00



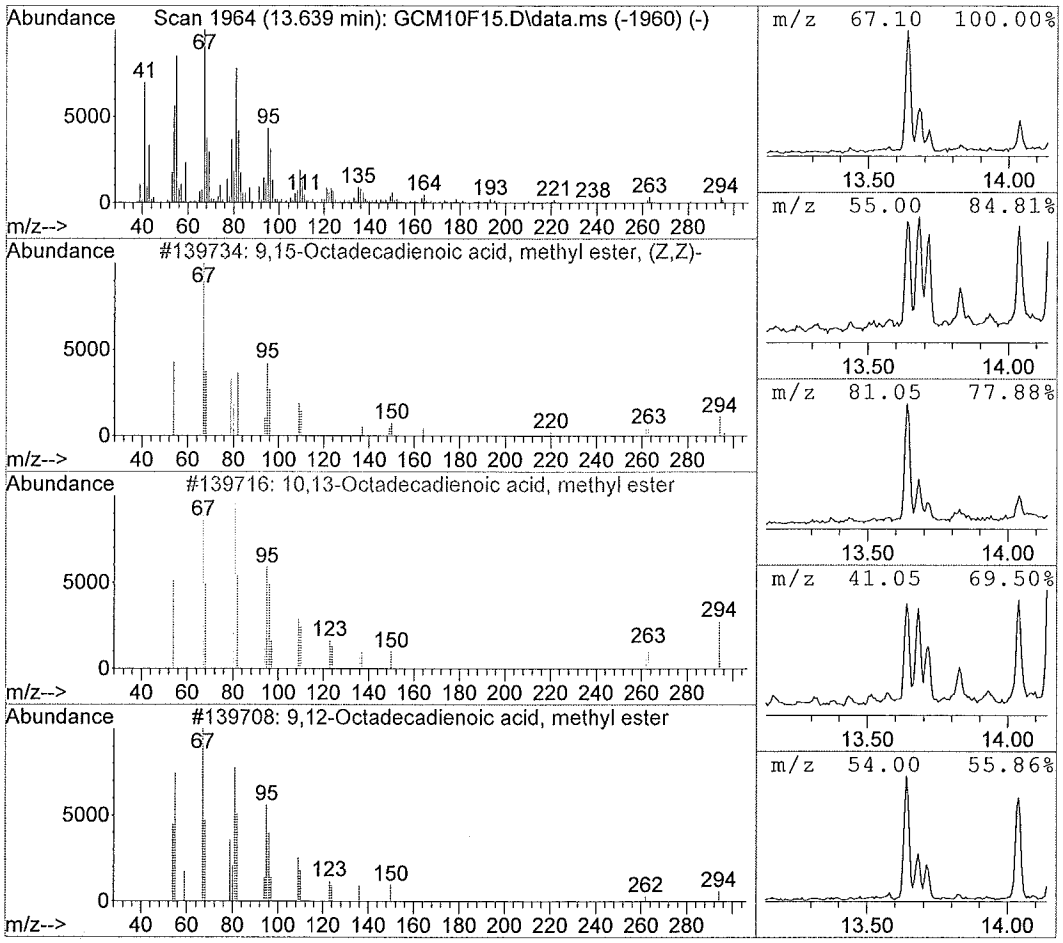
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM10F15.D Vial: 17
Acq On : 07/06/2015 19:34 Operator: TJM
Sample : 1514293015 F9L70 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.64	2.88 ug/ml	513507	Chrysene-d12	3567619

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9,15-Octadecadienoic acid, methyl e	139734	017309-05-6	99.00
2	10,13-Octadecadienoic acid, methyl	139716	056554-62-2	99.00
3	9,12-Octadecadienoic acid, methyl e	139708	002462-85-3	99.00
4	9,12-Octadecadienoic acid, methyl e	139729	002566-97-4	99.00
5	9,12-Octadecadienoic acid (Z,Z)-, m	139725	000112-63-0	99.00



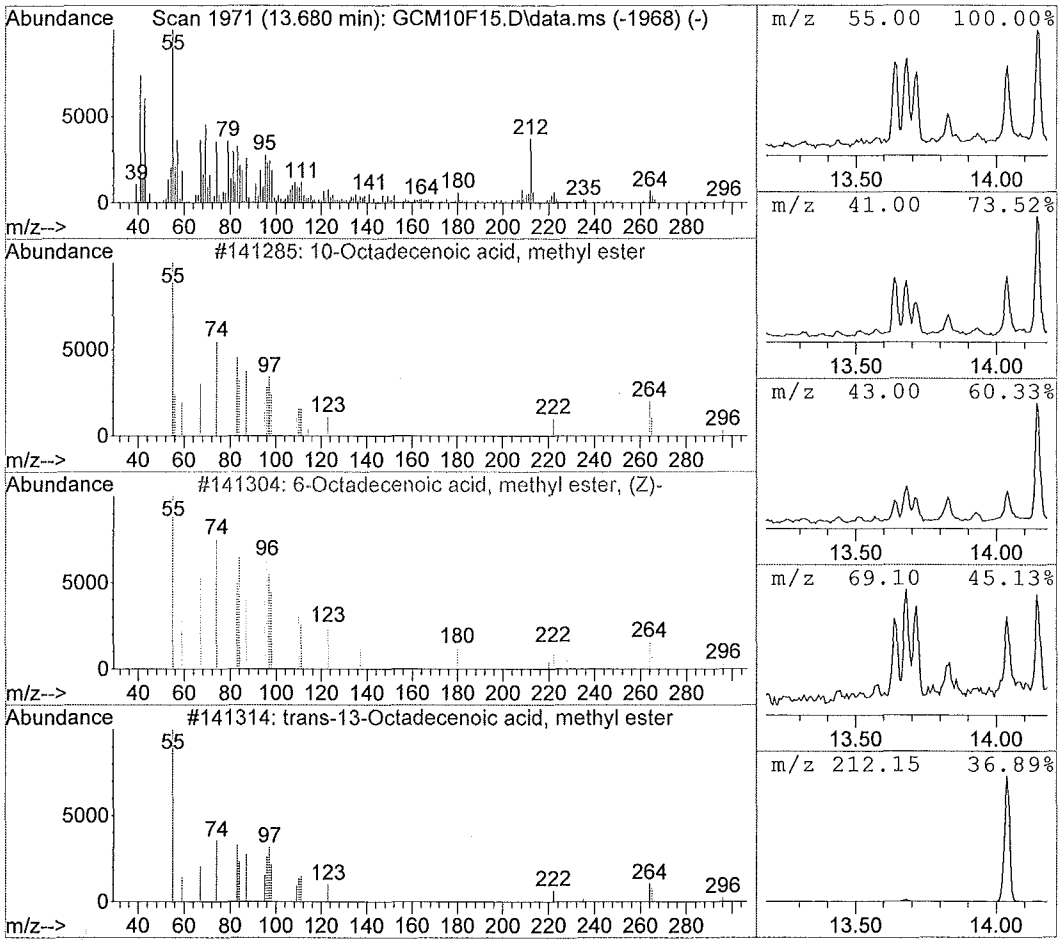
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM10F15.D Vial: 17
Acq On : 07/06/2015 19:34 Operator: TJM
Sample : 1514293015 F9L70 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.68	2.84 ug/ml	505734	Chrysene-d12	3567619

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	10-Octadecenoic acid, methyl ester	141285	013481-95-3	97.00
2	6-Octadecenoic acid, methyl ester,	141304	002777-58-4	97.00
3	trans-13-Octadecenoic acid, methyl	141314	1000333-61-3	97.00
4	13-Octadecenoic acid, methyl ester	141286	056554-47-3	92.00
5	9-Octadecenoic acid, methyl ester,	141309	001937-62-8	91.00



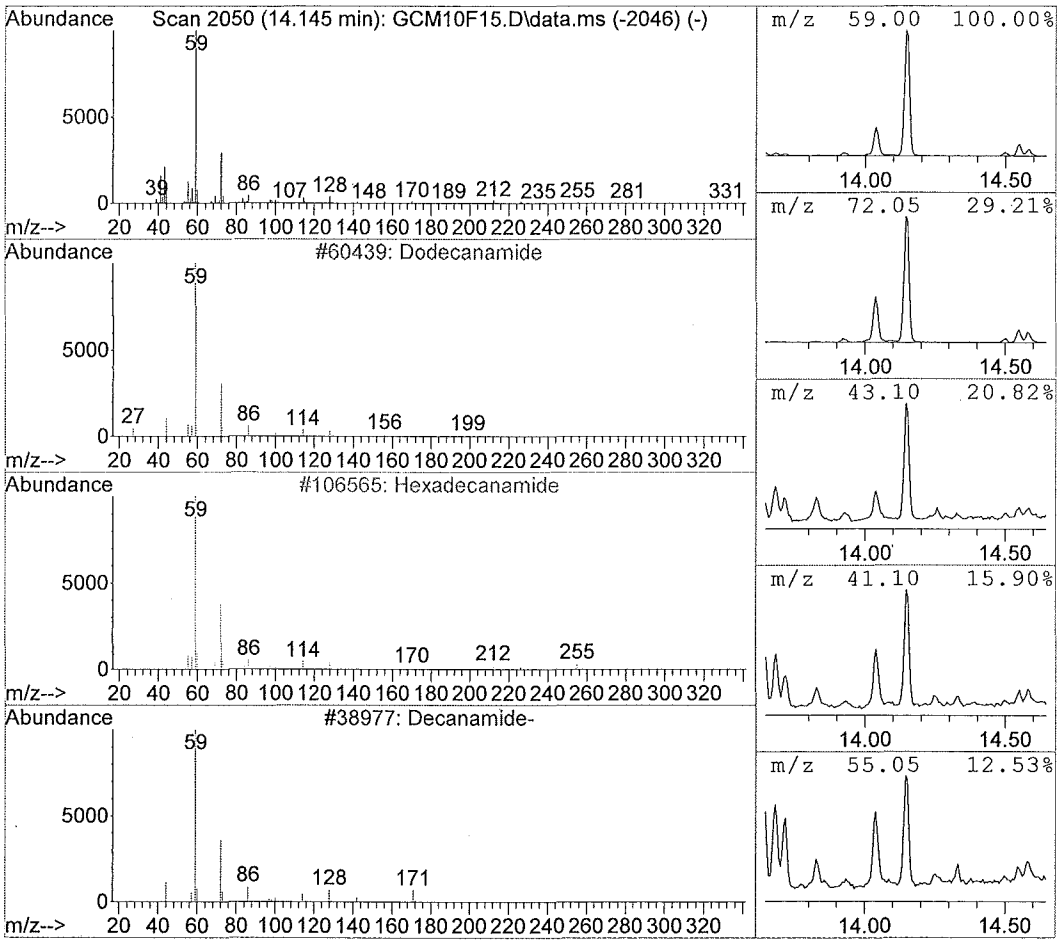
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM10F15.D Vial: 17
Acq On : 07/06/2015 19:34 Operator: TJM
Sample : 1514293015 F9L70 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.14	6.32 ug/ml	1127730	Chrysene-d12	3567619

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Hexadecanamide	106565	000629-54-9	87.00
3	Decanamide-	38977	002319-29-1	83.00
4	Tetradecanamide	83609	000638-58-4	83.00
5	Nonanamide	29478	001120-07-6	83.00



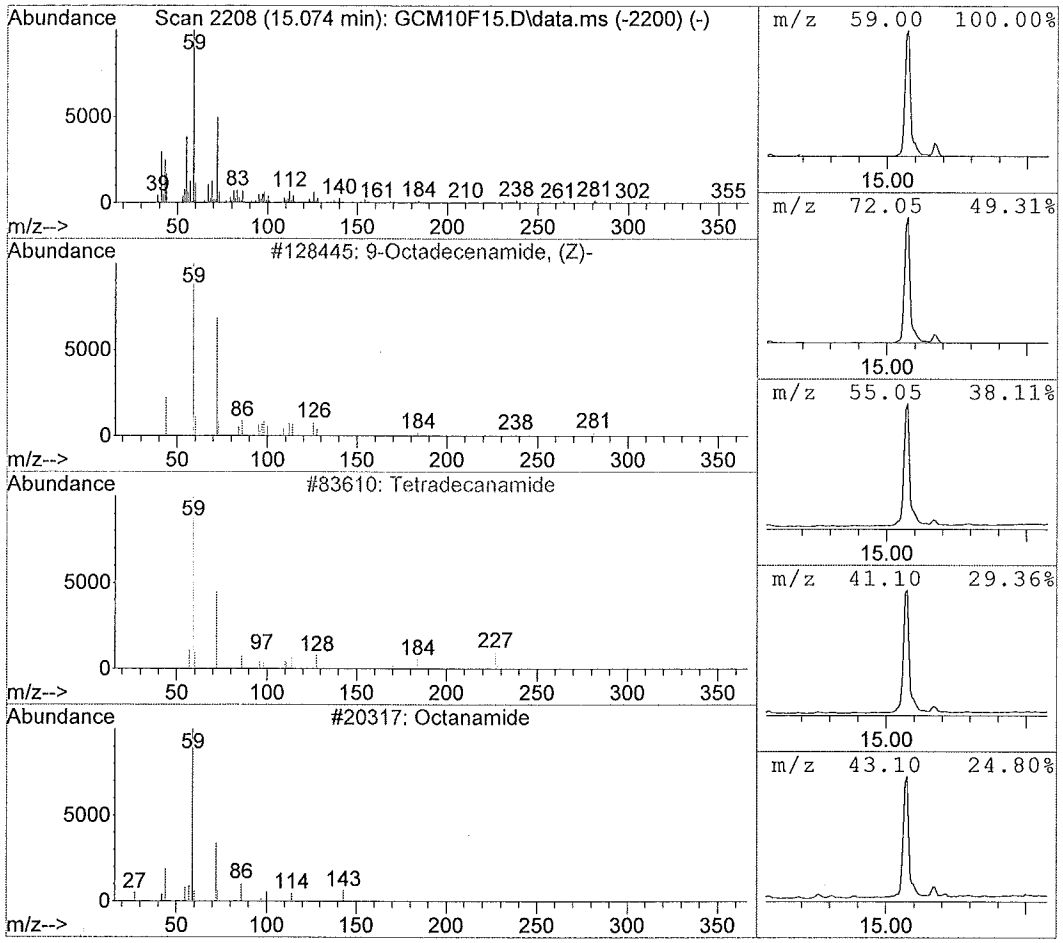
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM10F15.D Vial: 17
Acq On : 07/06/2015 19:34 Operator: TJM
Sample : 1514293015 F9L70 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.07	40.12 ug/ml	7157492	Chrysene-d12	3567619

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Tetradecanamide	83610	000638-58-4	87.00
3	Octanamide	20317	000629-01-6	72.00
4	7-Nonenamide	28131	090949-53-4	72.00
5	Nonanamide	29478	001120-07-6	50.00



00371

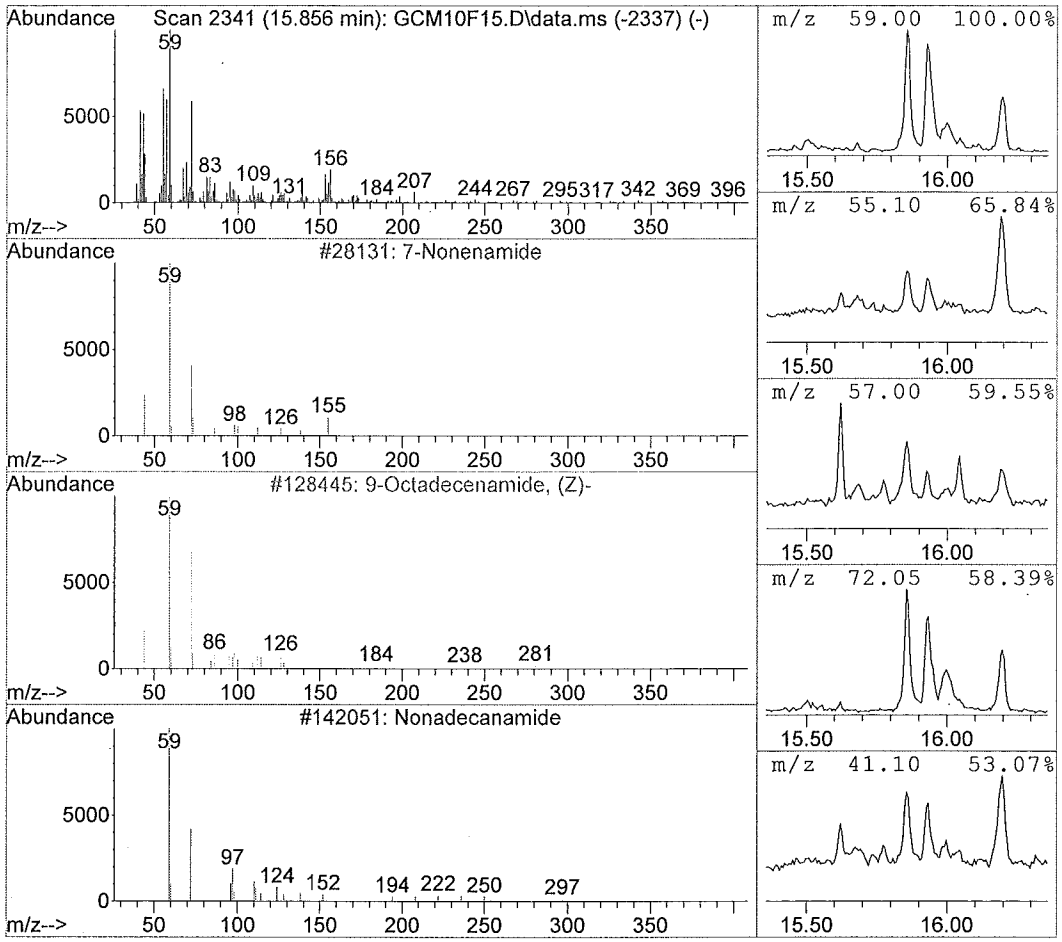
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM10F15.D Vial: 17
Acq On : 07/06/2015 19:34 Operator: TJM
Sample : 1514293015 F9L70 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.86	2.50 ug/ml	445958	Chrysene-d12	3567619

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7-Nonenamide	28131	090949-53-4	70.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	62.00
3	Nonadecanamide	142051	058185-32-3	53.00
4	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	50.00
5	Tetradecanamide	83610	000638-58-4	47.00



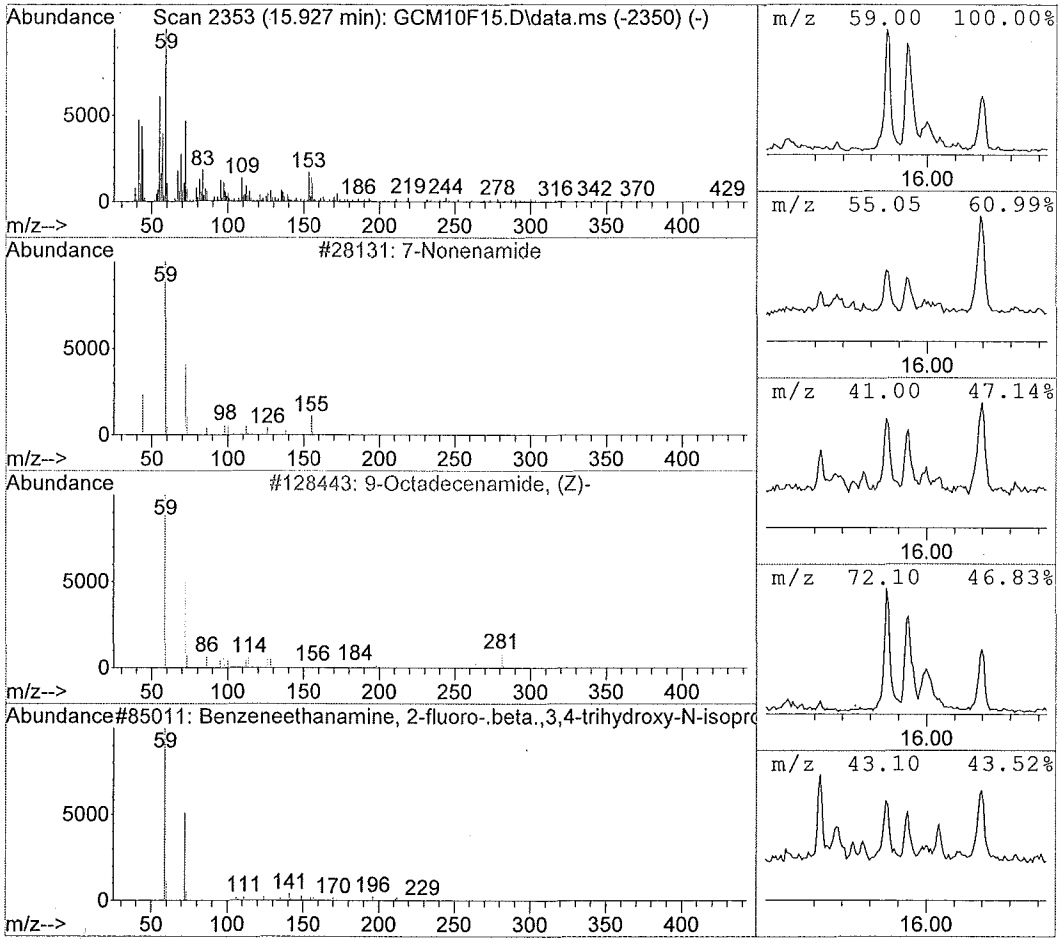
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM10F15.D Vial: 17
Acq On : 07/06/2015 19:34 Operator: TJM
Sample : 1514293015 F9L70 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.93	2.06 ug/ml	366835	Chrysene-d12	3567619

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7-Nonenamide	28131	090949-53-4	70.00
2	9-Octadecenamide, (Z)-	128443	000301-02-0	53.00
3	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	50.00
4	Octanamide	20317	000629-01-6	50.00
5	Hexadecanamide	106564	000629-54-9	50.00



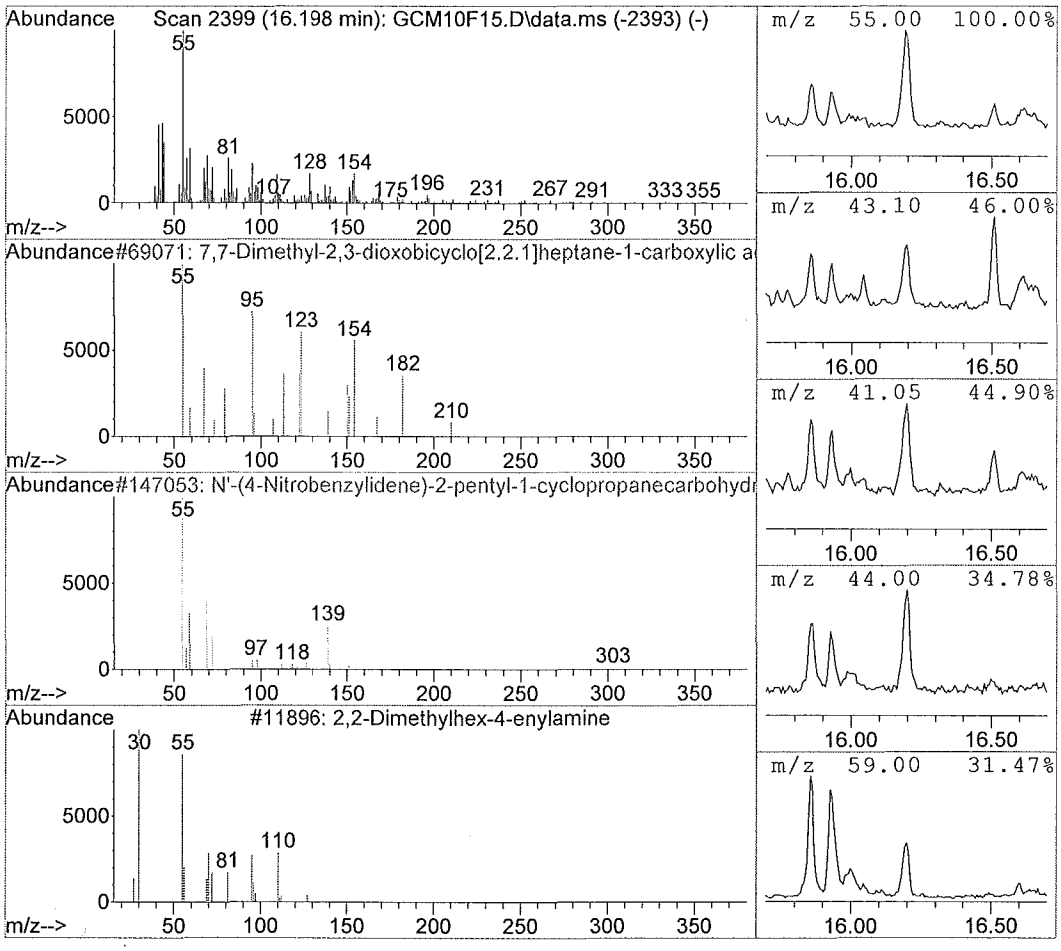
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM10F15.D Vial: 17
Acq On : 07/06/2015 19:34 Operator: TJM
Sample : 1514293015 F9L70 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.20	4.32 ug/ml	770954	Chrysene-d12	3567619

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7,7-Dimethyl-2,3-dioxobicyclo[2.2.1	69071	040724-68-3	25.00
2	N'-(4-Nitrobenzylidene)-2-pentyl-1-	147053	339027-09-7	12.00
3	2,2-Dimethylhex-4-enylamine	11896	133885-74-2	10.00
4	Nona-2,3-dienoic acid, ethyl ester	46987	1000187-19-2	9.00
5	5-Methyl-4-octanol	21114	059734-23-5	9.00



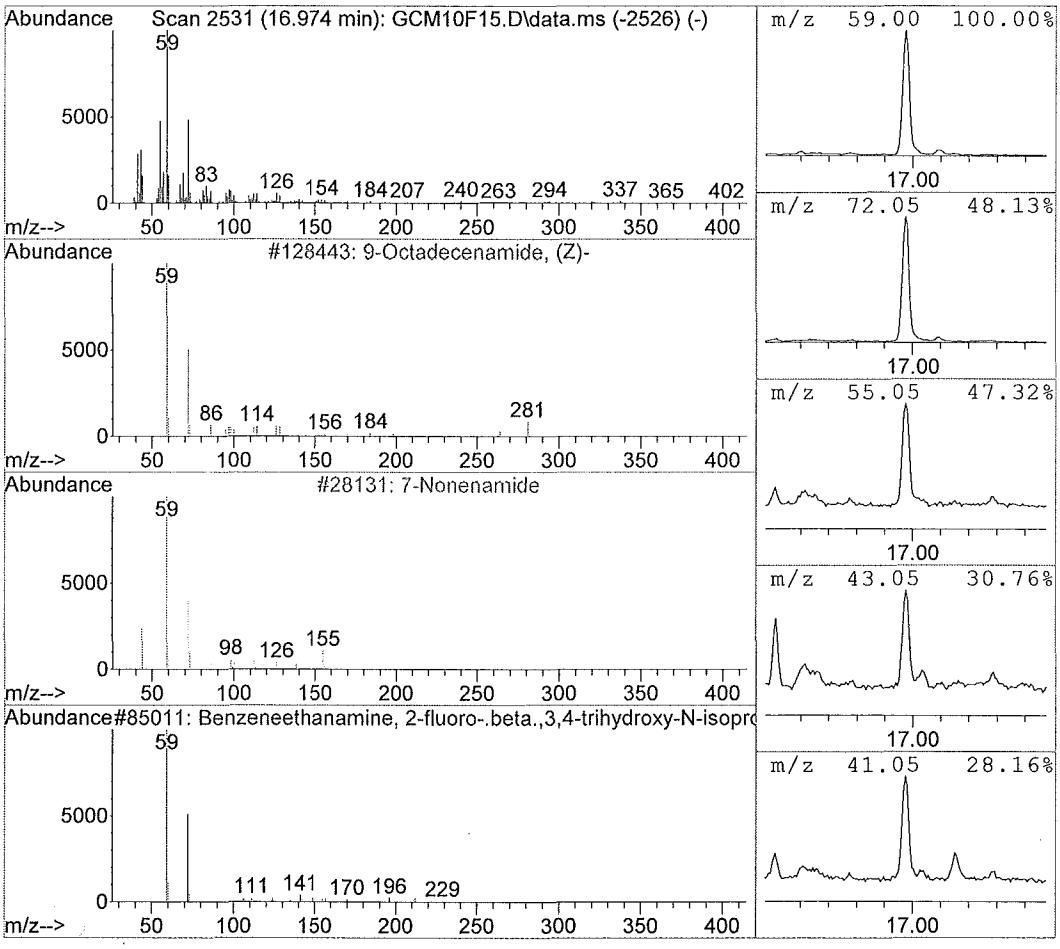
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM10F15.D Vial: 17
Acq On : 07/06/2015 19:34 Operator: TJM
Sample : 1514293015 F9L70 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.97	8.93 ug/ml	1320523	Perylene-d12	2957393

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	90.00
2	7-Nonenamide	28131	090949-53-4	72.00
3	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	64.00
4	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	50.00
5	Hexadecanamide	106565	000629-54-9	50.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM10F15.D Vial: 17
Acq On : 07/06/2015 19:34 Operator: TJM
Sample : 1514293015 F9L70 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.65	5.26 ug/ml	777499	Perylene-d12	2957393

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane, 3-methyl-	94351	006418-43-5	91.00
2	Sulfurous acid, butyl undecyl ester	137567	1000309-17-8	90.00
3	Hexadecane	83025	000544-76-3	87.00
4	Heptacosane	202661	000593-49-7	87.00
5	Hexacosane	194493	000630-01-3	87.00

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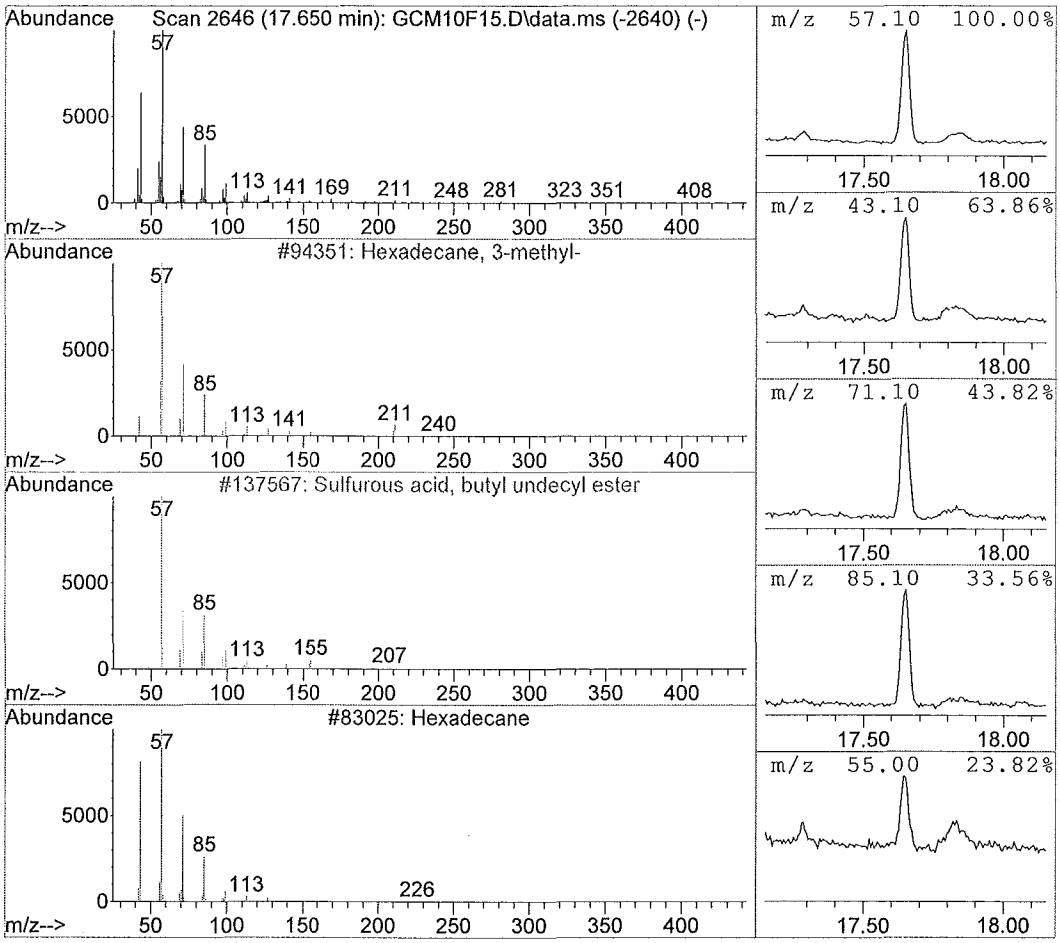


Library Search Compound Report

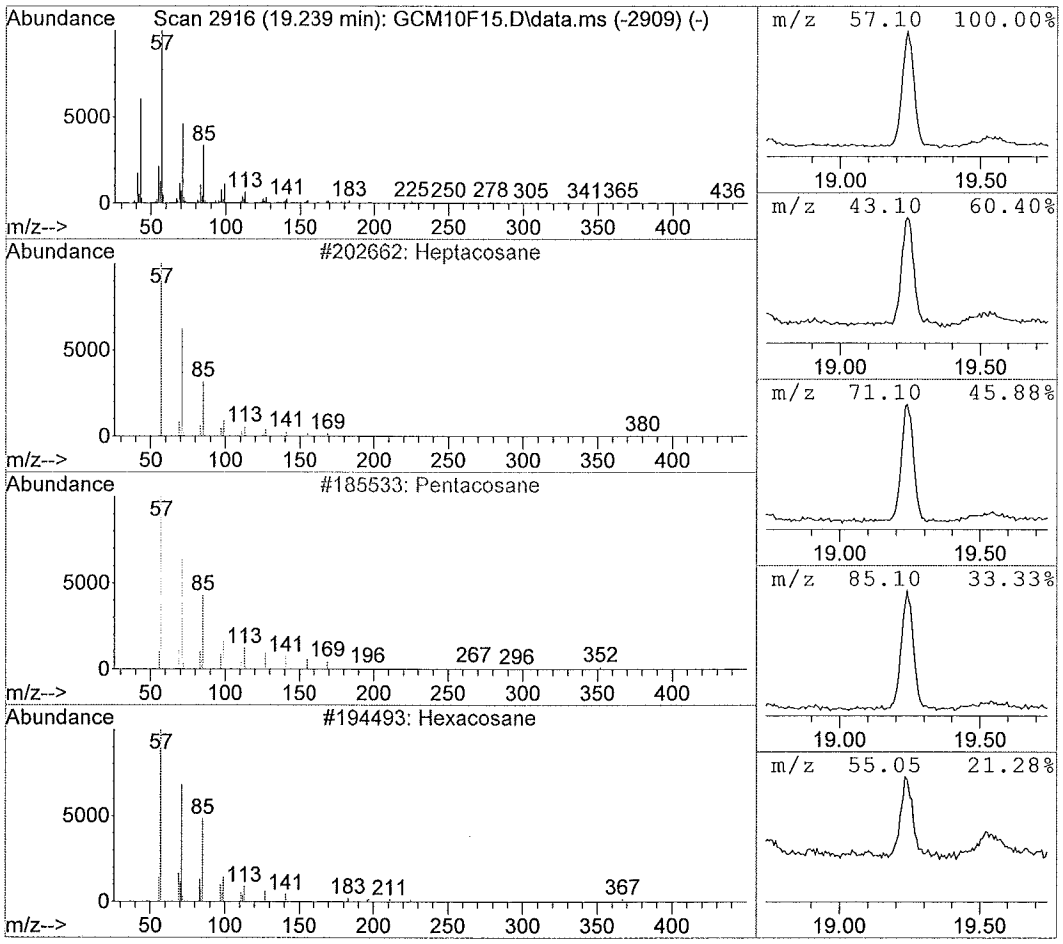
Data File : R:\G\2015\JUL15\06JUL15PM\GCM10F15.D Vial: 17
Acq On : 07/06/2015 19:34 Operator: TJM
Sample : 1514293015 F9L70 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.24	7.63 ug/ml	1128267	Perylene-d12	2957393

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	91.00
2	Pentacosane	185533	000629-99-2	90.00
3	Hexacosane	194493	000630-01-3	87.00
4	Octacosane	209566	000630-02-4	87.00
5	Hentriacontane	223852	000630-04-6	87.00

SCA



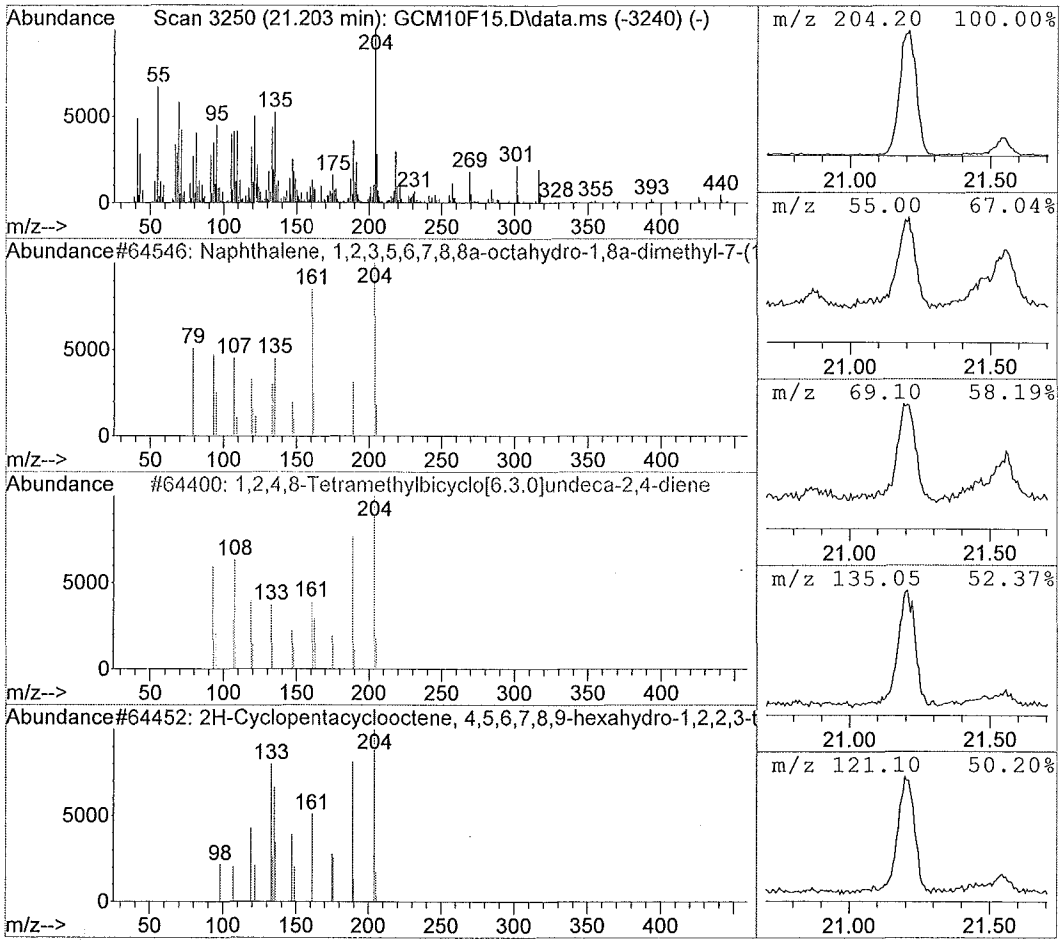
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM10F15.D Vial: 17
Acq On : 07/06/2015 19:34 Operator: TJM
Sample : 1514293015 F9L70 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.20	21.51 ug/ml	3180662	Perylene-d12	2957393

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	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	59.00
3	2H-Cyclopentacyclooctene, 4,5,6,7,8	64452	1000221-85-8	50.00
4	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	50.00
5	Guaia-3,9-diene	64297	000489-83-8	49.00



00378

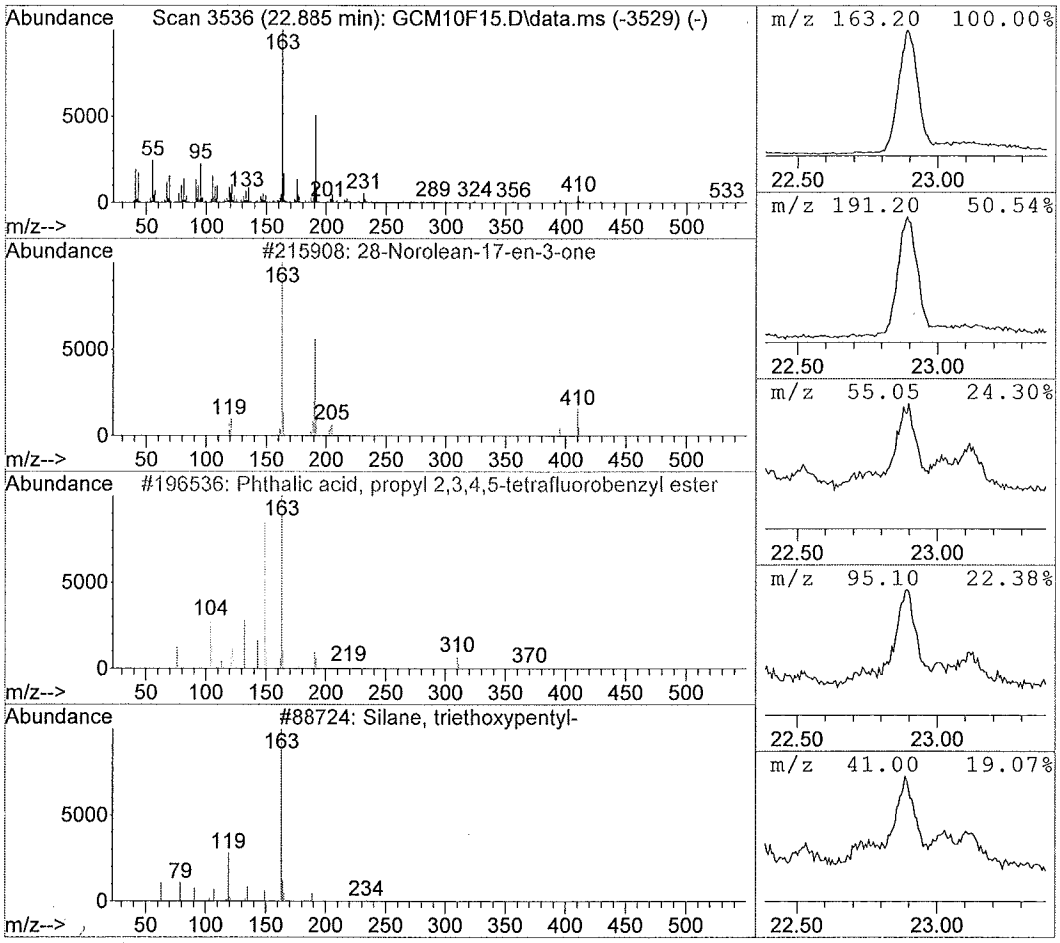
Library Search Compound Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM10F15.D Vial: 17
Acq On : 07/06/2015 19:34 Operator: TJM
Sample : 1514293015 F9L70 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.89	10.83 ug/ml	1601974	Perylene-d12	2957393

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	28-Norolean-17-en-3-one	215908	005912-72-1	78.00
2	Phthalic acid, propyl 2,3,4,5-tetra	196536	1000377-72-5	43.00
3	Silane, triethoxypentyl-	88724	002761-24-2	41.00
4	1,3-Dimethyl-5-ethyladamantane	54701	001687-35-0	38.00
5	Hydratropamide, .alpha.-methyl-	32853	000826-54-0	38.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.:

F9L71

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293016

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBC18F16

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	200	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L71

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293016

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBC18F16

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: F9L71

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293016

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBC18F16

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Pentane, 3-methoxy-	2.12	330	J
02		Unknown 2-Pentanone, 4-hydroxy-	3.37	140	J
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.59	5900	J
04		Unknown 3-Hexene-2,5-dione	4.35	210	JB
05	629-54-9	Hexadecanamide	14.25	160	JNB
06	301-02-0	9-Octadecenamide, (Z)-	15.17	1300	JNB
07		Unknown 9-Octadecenamide, (Z)-	15.96	79.	JB
08		Unknown 2,6-Octadienoic acid, 3-methyl-, methyl	16.31	130	J
09	112-84-5	13-Docosenamide, (Z)-	17.12	210	JN
10		Unknown 1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-	21.53	930	J
11		Unknown .gama.-eudesmol	21.89	96.	J
12		Unknown 1,2,4-Oxadiazol-5(4H)-one, 4-(2-chloroph	22.20	79.	J
13		Unknown Lanosterol	24.14	96.	J
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	99.	J

[2] EPA-designated Registry Number.

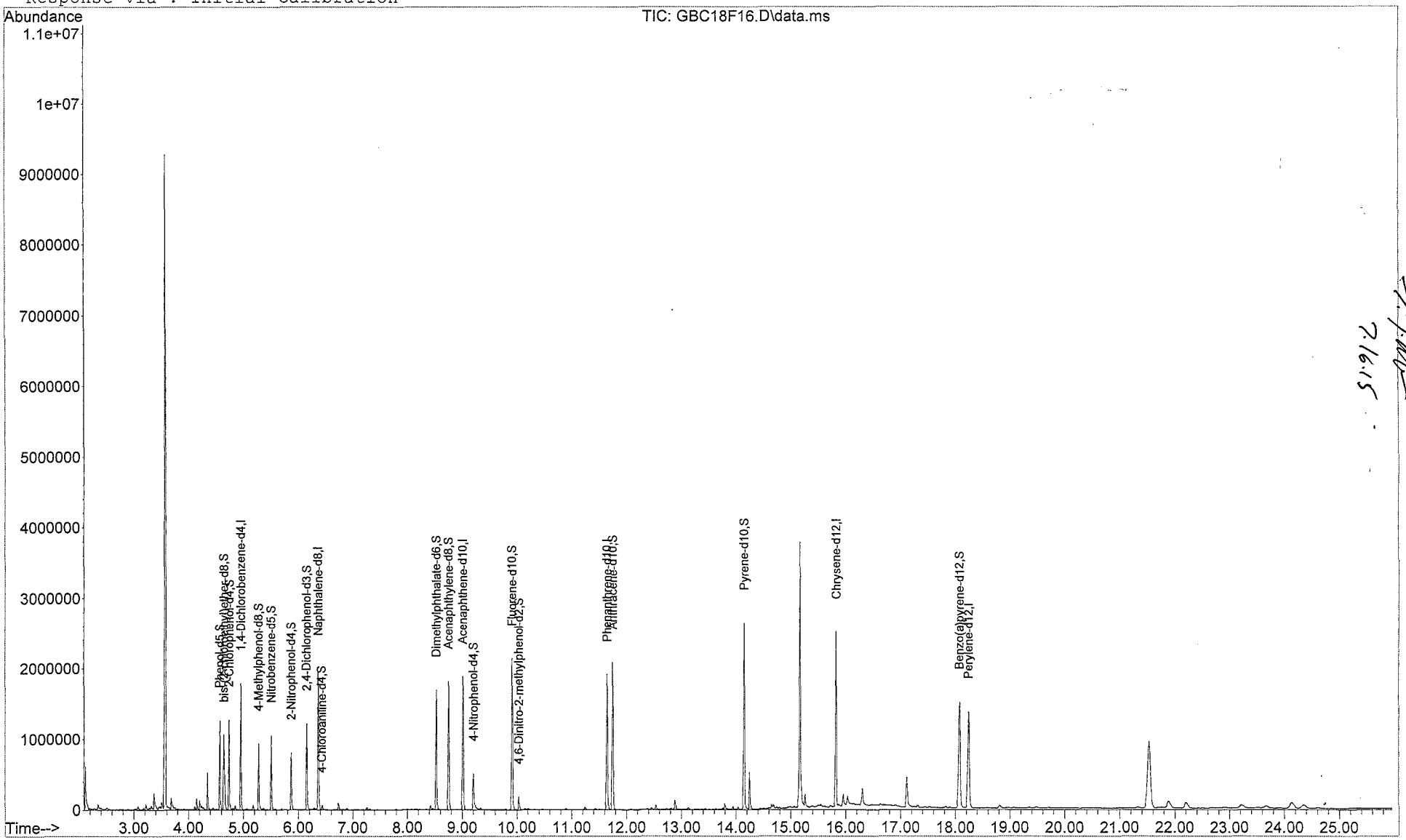
Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC18F16.D
Acq On : 06/02/2015 22:38
Sample : 1514293016 F9L71
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 17
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 14:44:29 2015 Results File: GSOM01D4.RES

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



7.16.15

Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:44:29 2015 Results File: GSOM01D4.RES

Method : R:\G\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	309722	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1164808	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	659903	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1100453	20.00 ug/ml
73) Chrysene-d12	15.83	240	1078723	20.00 ug/ml
81) Perylene-d12	18.24	264	1035981	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	459898	21.293ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	220737	16.691ug/mL
7) 2-Chlorophenol-d4	4.75	132	438312	20.670ug/ml
13) 4-Methylphenol-d8	5.28	113	233648	13.895ug/mL
17) Nitrobenzene-d5	5.51	128	193453	19.795ug/ml
21) 2-Nitrophenol-d4	5.87	143	210506	19.328ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	326869	20.487ug/mL
28) 4-Chloroaniline-d4	6.44	131	29743	1.719ug/mL
42) Dimethylphthalate-d6	8.53	166	1032908	25.737ug/mL
45) Acenaphthylene-d8	8.76	160	1193435	22.282ug/mL
50) 4-Nitrophenol-d4	9.21	143	179541	21.008ug/mL
57) Fluorene-d10	9.92	176	856187	24.562ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	46032	6.368ug/mL
69) Anthracene-d10	11.75	188	1334114	23.966ug/mL
75) Pyrene-d10	14.15	212	1217314	24.822ug/mL
86) Benzo(a)pyrene-d12	18.08	264	1130228	24.052ug/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)

00394

Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:44:29 2015 Results File: GSOM01D4.RES

Method : R:\G\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)

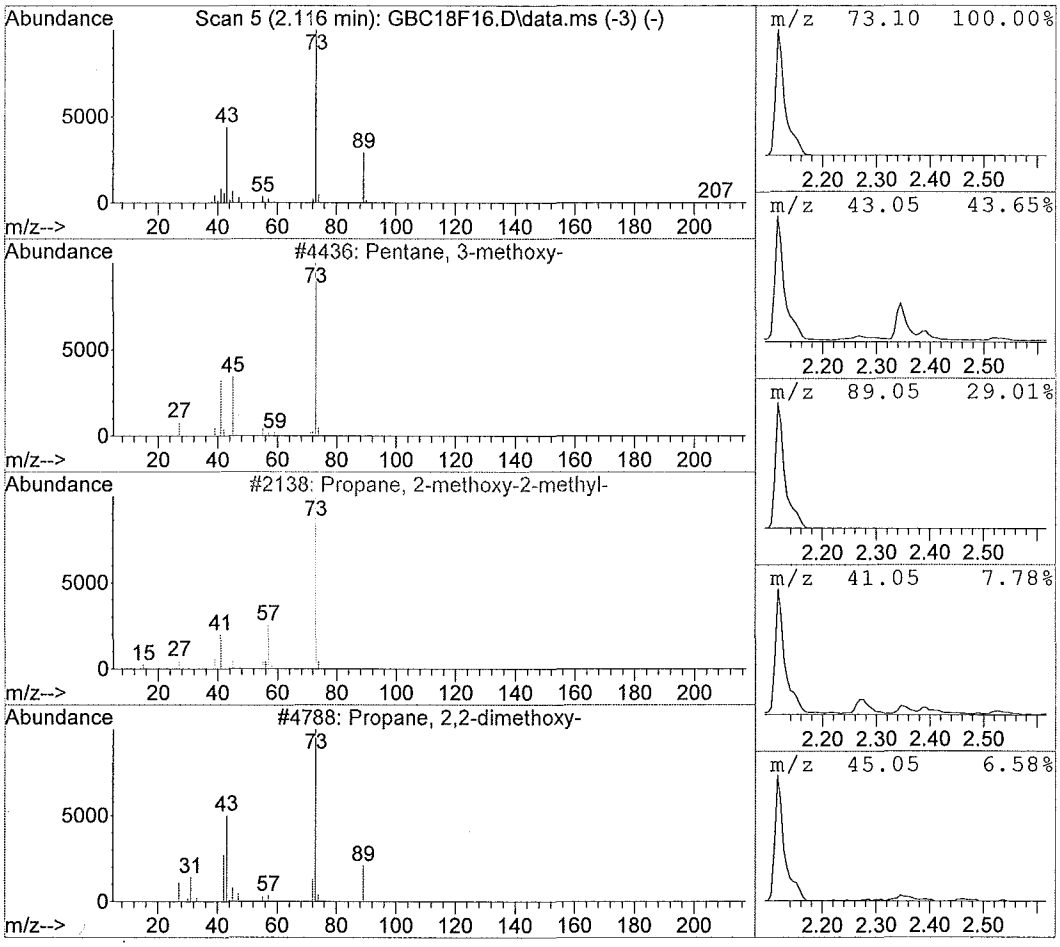
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.12	8.50 ug/ml	738997	1,4-Dichlorobenzene-d4	1738545

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentane, 3-methoxy-	4436	036839-67-5	25.00
2	Propane, 2-methoxy-2-methyl-	2138	001634-04-4	9.00
3	Propane, 2,2-dimethoxy-	4788	000077-76-9	9.00
4	2-Hydroxy-2-methylbutyric acid	8706	003739-30-8	9.00
5	Methane, isothiocyanato-	716	000556-61-6	7.00



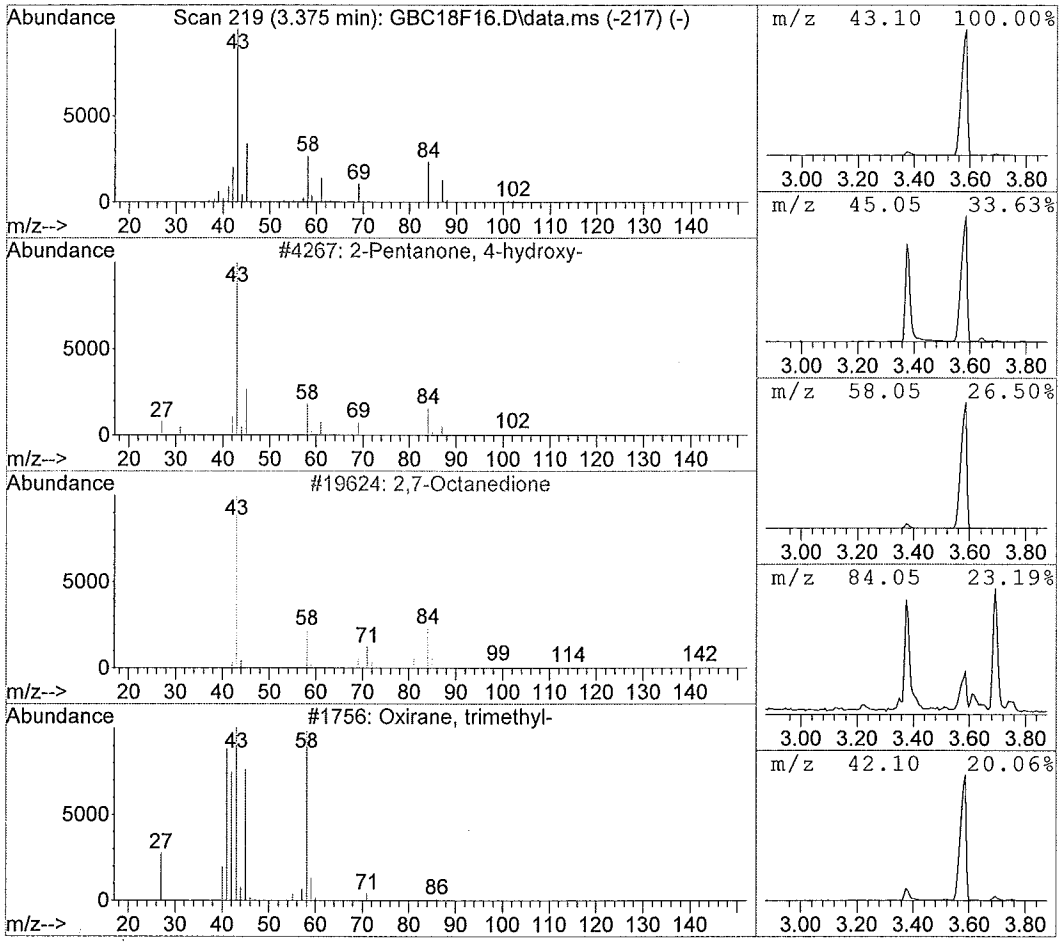
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.37	3.68 ug/ml	320042	1,4-Dichlorobenzene-d4	1738545

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	45.00
2	2,7-Octanedione	19624	001626-09-1	25.00
3	Oxirane, trimethyl-	1756	005076-19-7	23.00
4	Acetone	217	000067-64-1	9.00
5	2-Butanone, 4-hydroxy-3-methyl-	4328	003393-64-4	9.00



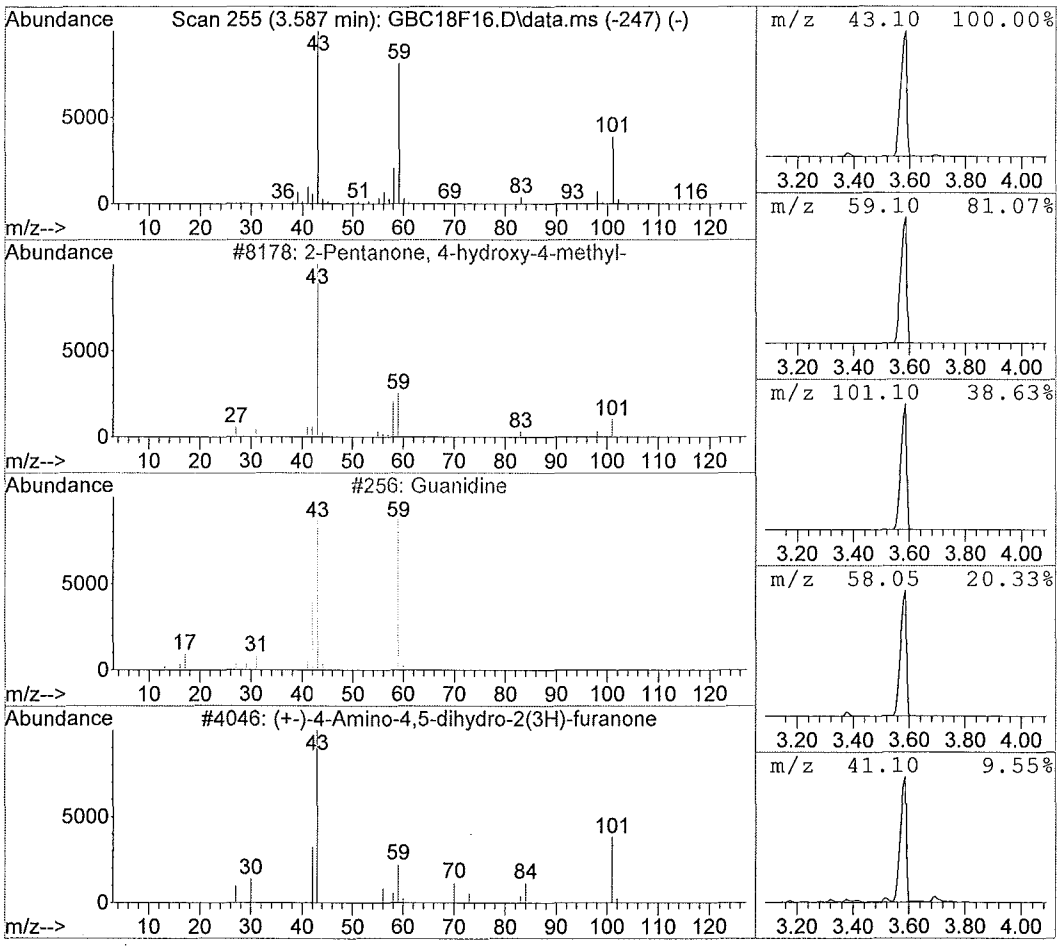
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.59	151.93 ug/ml	13207231	1,4-Dichlorobenzene-d4	1738545

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	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



Library Search Compound Report

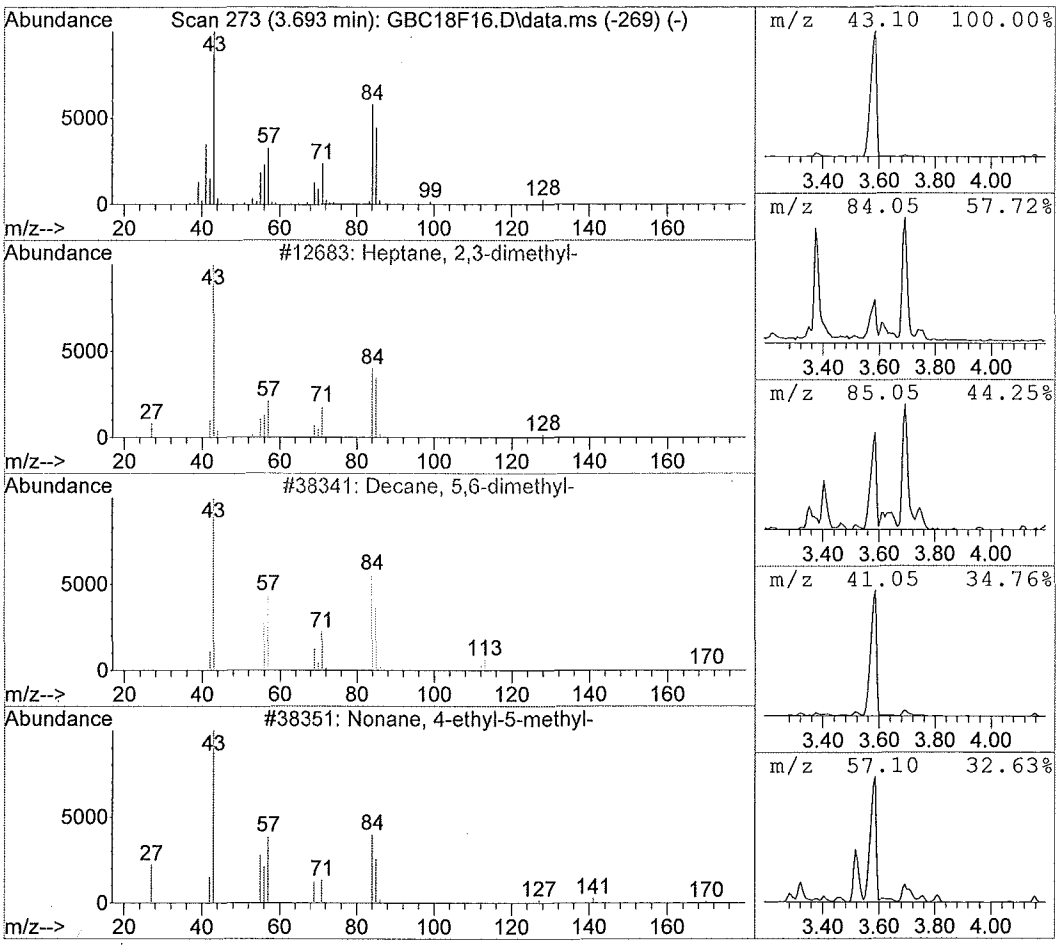
Data File : R:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.69	2.53 ug/ml	220105	1,4-Dichlorobenzene-d4	1738545

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12683	003074-71-3	83.00
2	Decane, 5,6-dimethyl-	38341	001636-43-7	72.00
3	Nonane, 4-ethyl-5-methyl-	38351	001632-71-9	64.00
4	Hexane, 2,3,5-trimethyl-	12708	001069-53-0	53.00
5	Octane, 3,4-dimethyl-	19179	015869-92-8	53.00

BA



: 00389

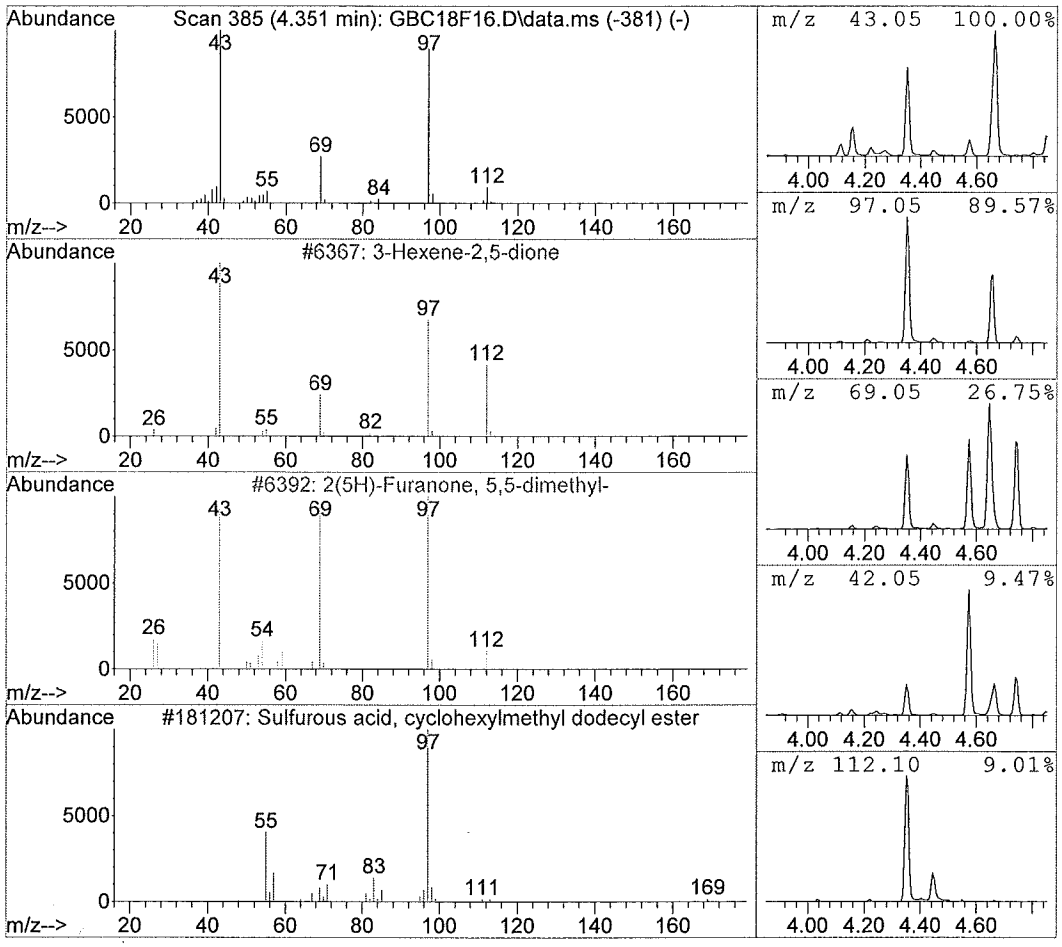
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	5.46 ug/ml	474708	1,4-Dichlorobenzene-d4	1738545

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	42.00
3	Sulfurous acid, cyclohexylmethyl do	181207	1000309-22-0	33.00
4	Sulfurous acid, butyl cyclohexylmet	88702	1000309-21-4	33.00
5	5-Hexen-2-one	3152	000109-49-9	10.00



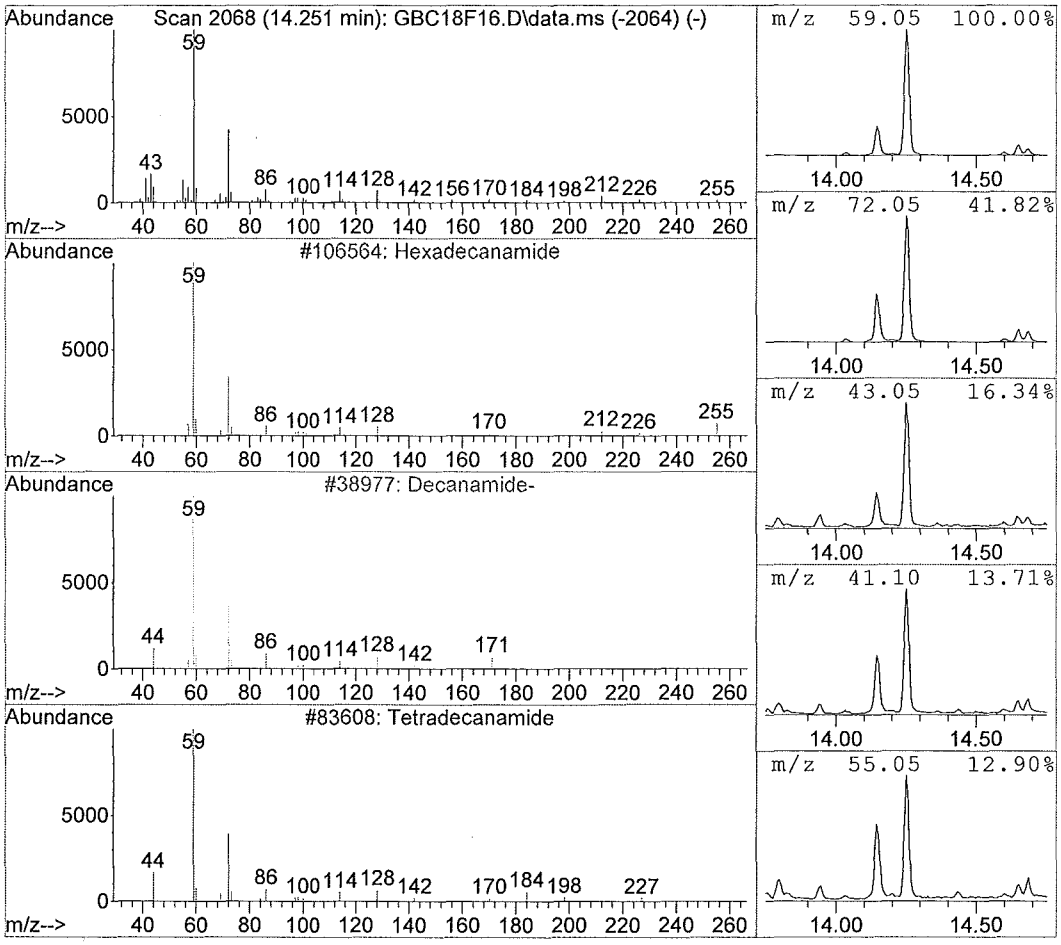
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	4.11 ug/ml	623559	Chrysene-d12	3032473

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	96.00
2	Decanamide-	38977	002319-29-1	87.00
3	Tetradecanamide	83608	000638-58-4	86.00
4	Dodecanamide	60439	001120-16-7	59.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00



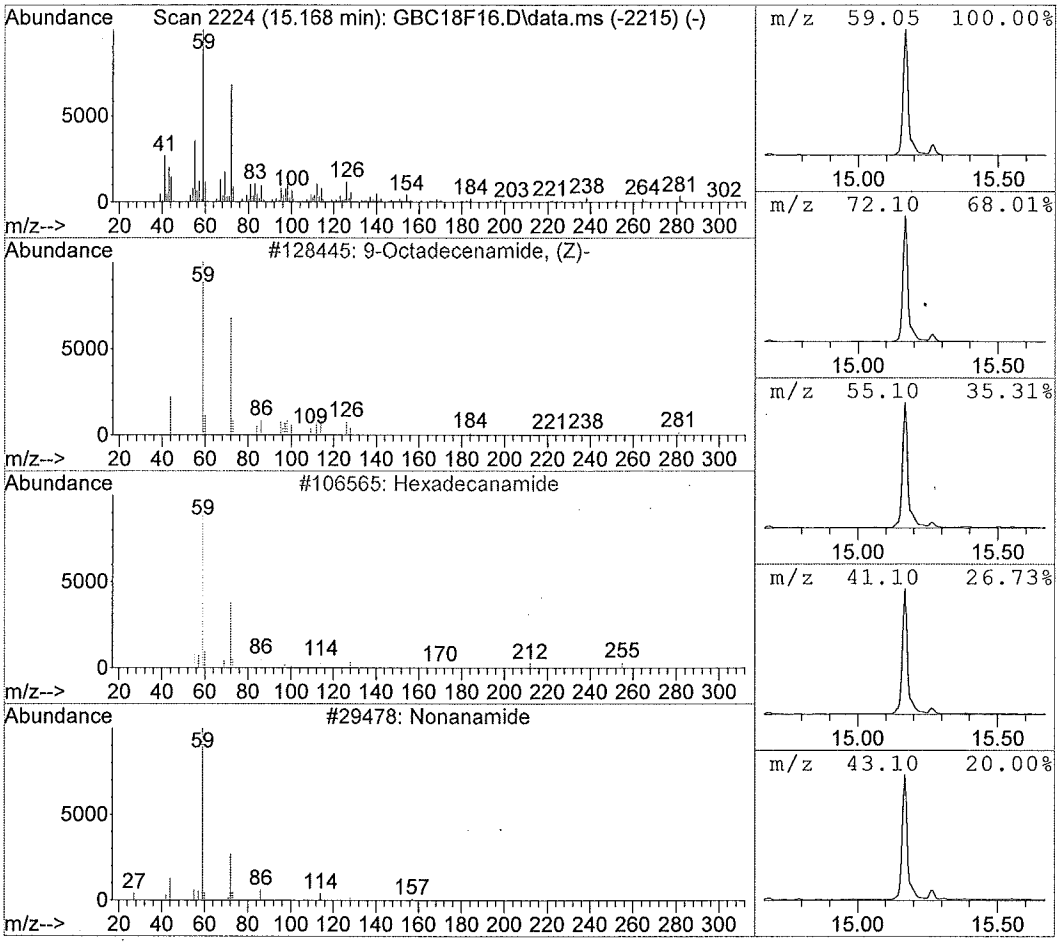
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	32.81 ug/ml	4975445	Chrysene-d12	3032473

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	Hexadecanamide	106565	000629-54-9	53.00
3	Nonanamide	29478	001120-07-6	50.00
4	Decanamide-	38977	002319-29-1	50.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	47.00



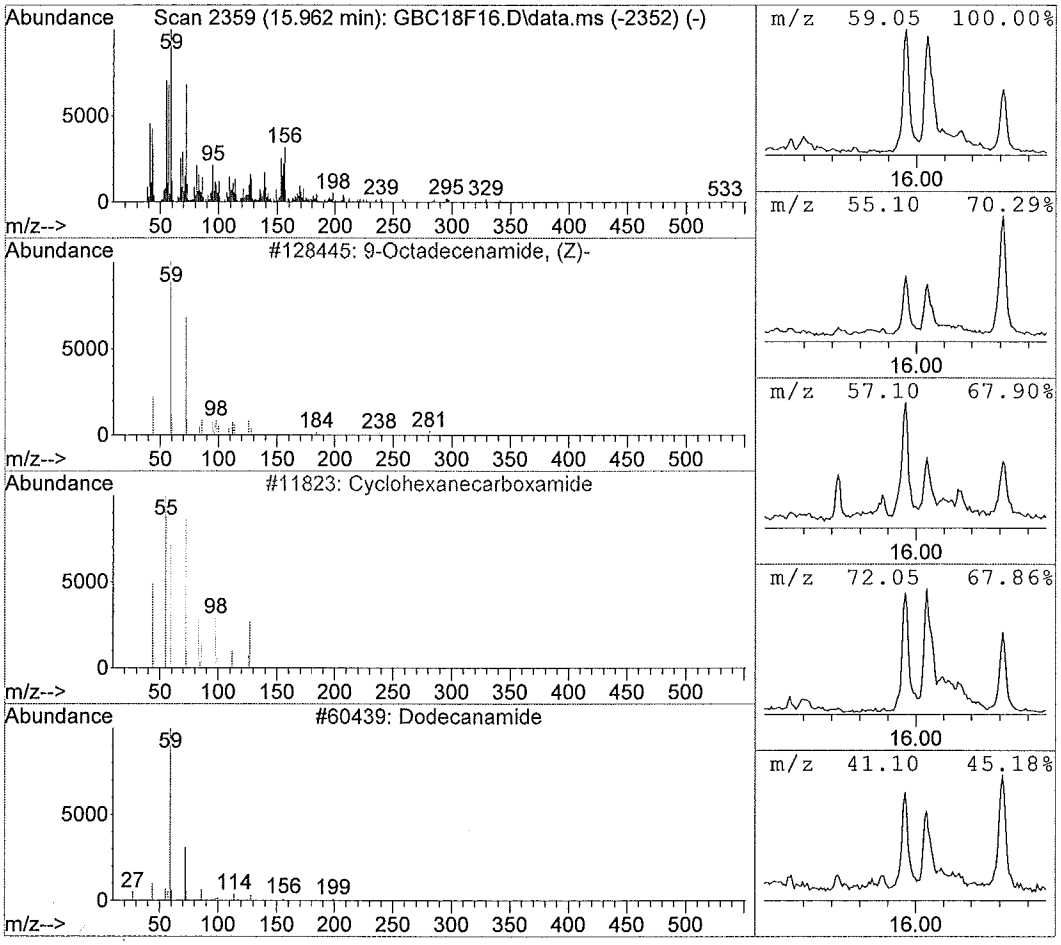
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.96	2.01 ug/ml	305311	Chrysene-d12	3032473

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	53.00
2	Cyclohexanecarboxamide	11823	001122-56-1	38.00
3	Dodecanamide	60439	001120-16-7	38.00
4	Nonanamide	29478	001120-07-6	38.00
5	3-Cyclohexylpropionamide	28138	004361-29-9	38.00



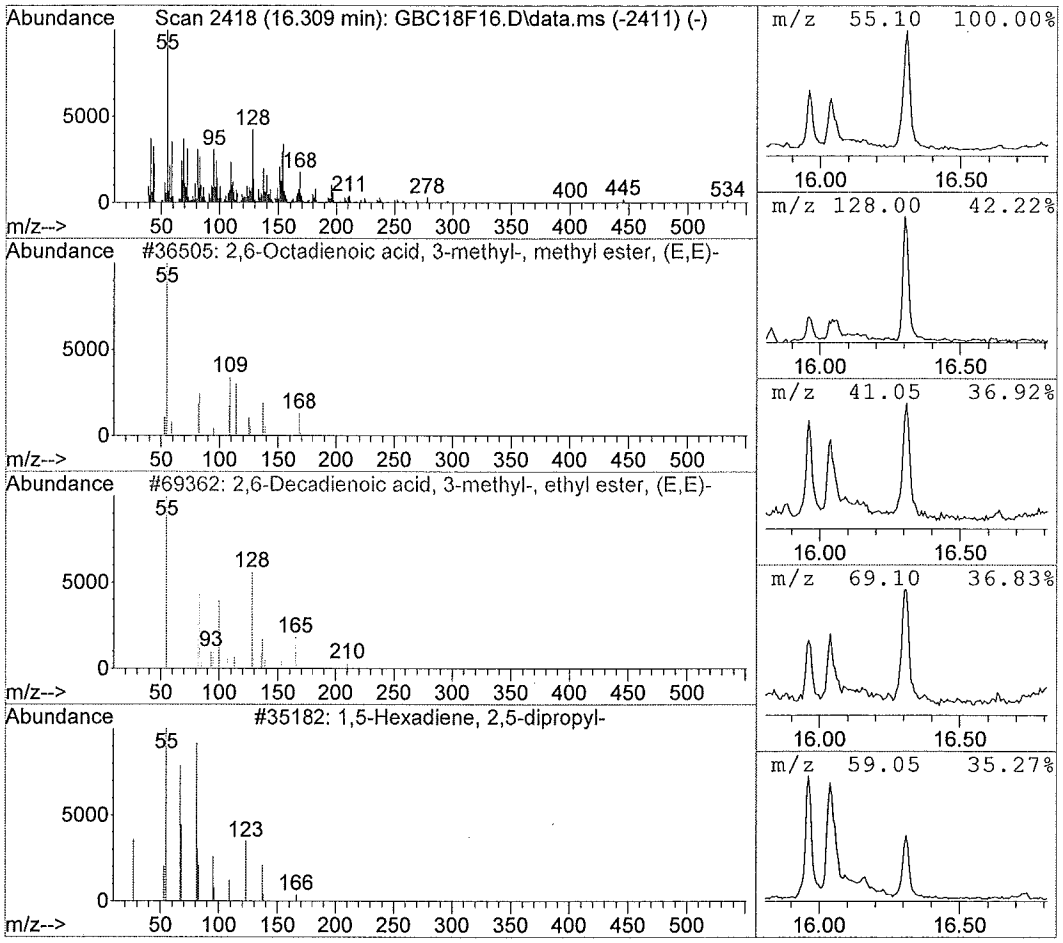
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.31	3.26 ug/ml	493759	Chrysene-d12	3032473

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,6-Octadienoic acid, 3-methyl-, me	36505	055283-13-1	11.00
2	2,6-Decadienoic acid, 3-methyl-, et	69362	055283-33-5	11.00
3	1,5-Hexadiene, 2,5-dipropyl-	35182	1000158-33-4	11.00
4	3-Chloropropionic acid, octadecyl e	190676	088168-99-4	10.00
5	Chloromethyl 7-chlorodecanoate	105069	080418-84-4	10.00



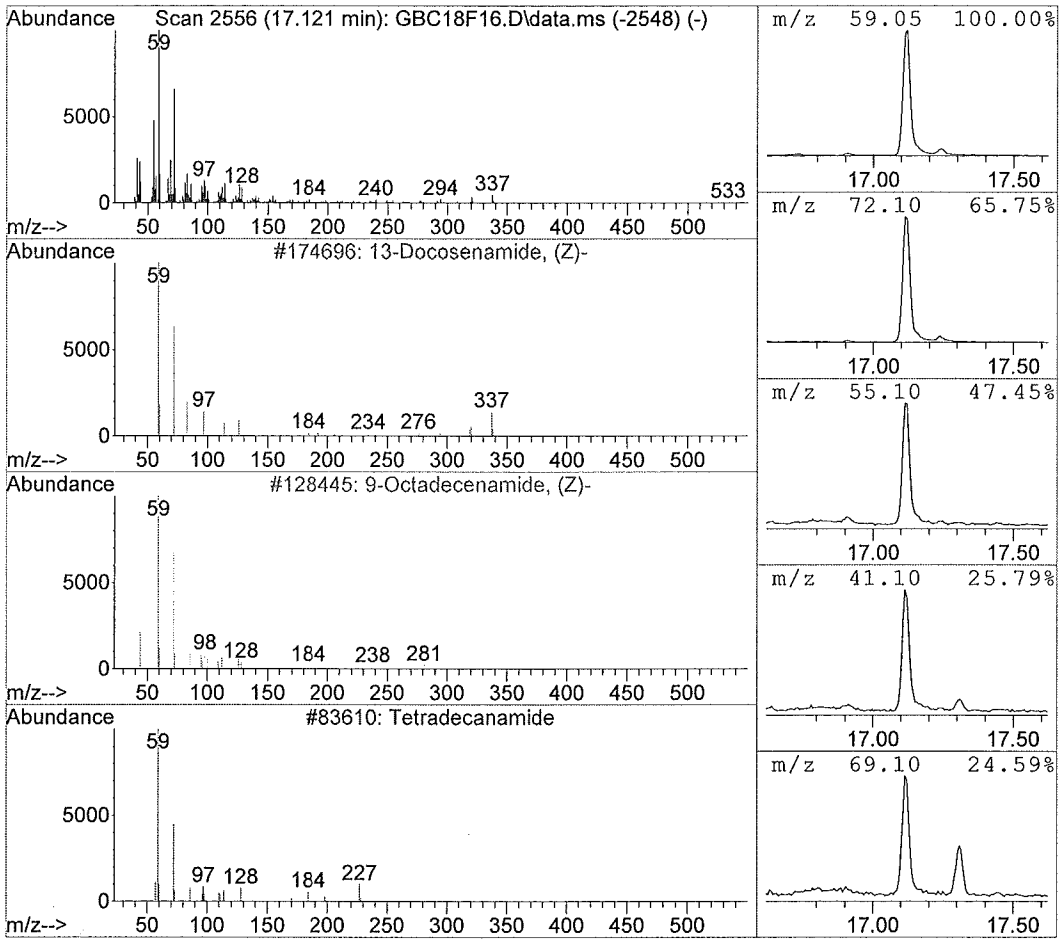
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	5.39 ug/ml	822403	Perylene-d12	3050549

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	Tetradecanamide	83610	000638-58-4	72.00
4	Octadecanamide	130204	000124-26-5	64.00
5	Hexadecanamide	106564	000629-54-9	50.00



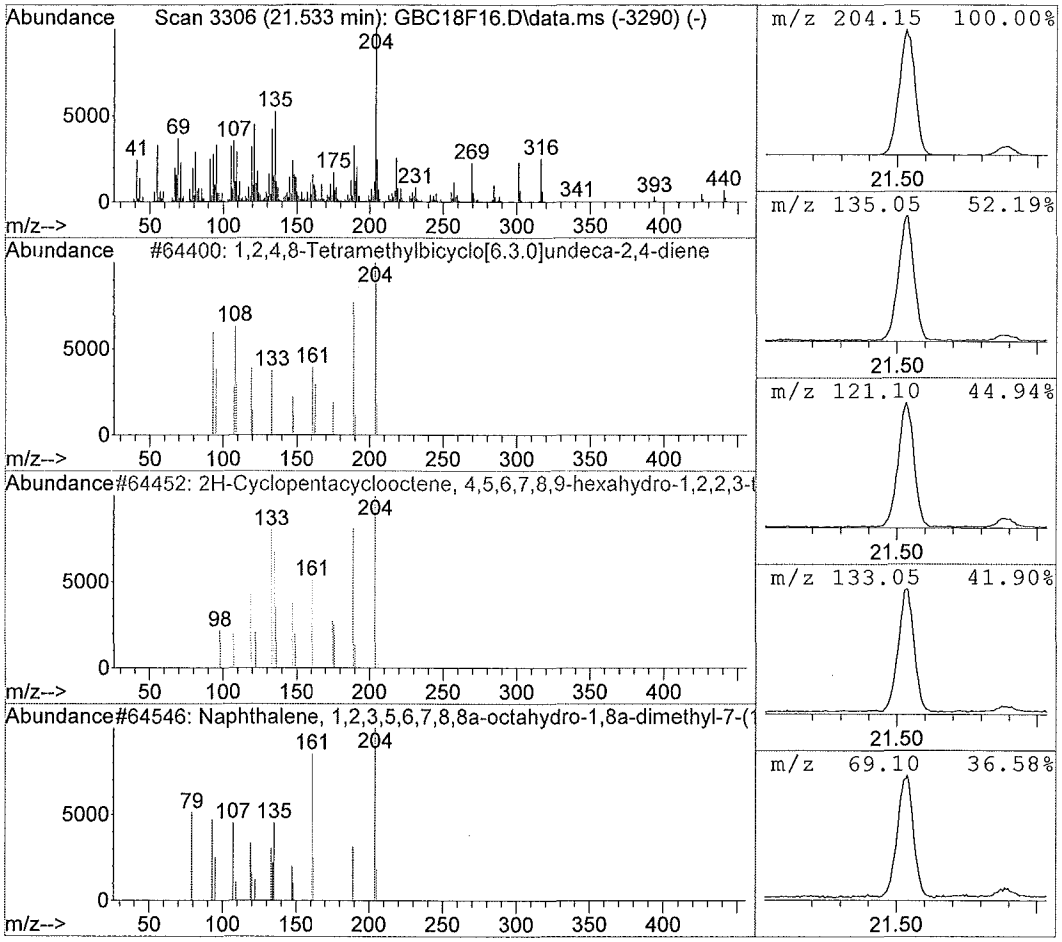
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	23.94 ug/ml	3651999	Perylene-d12	3050549

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	53.00
2	2H-Cyclopentacyclooctene, 4,5,6,7,8	64452	1000221-85-8	50.00
3	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	47.00
4	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	45.00
5	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	43.00



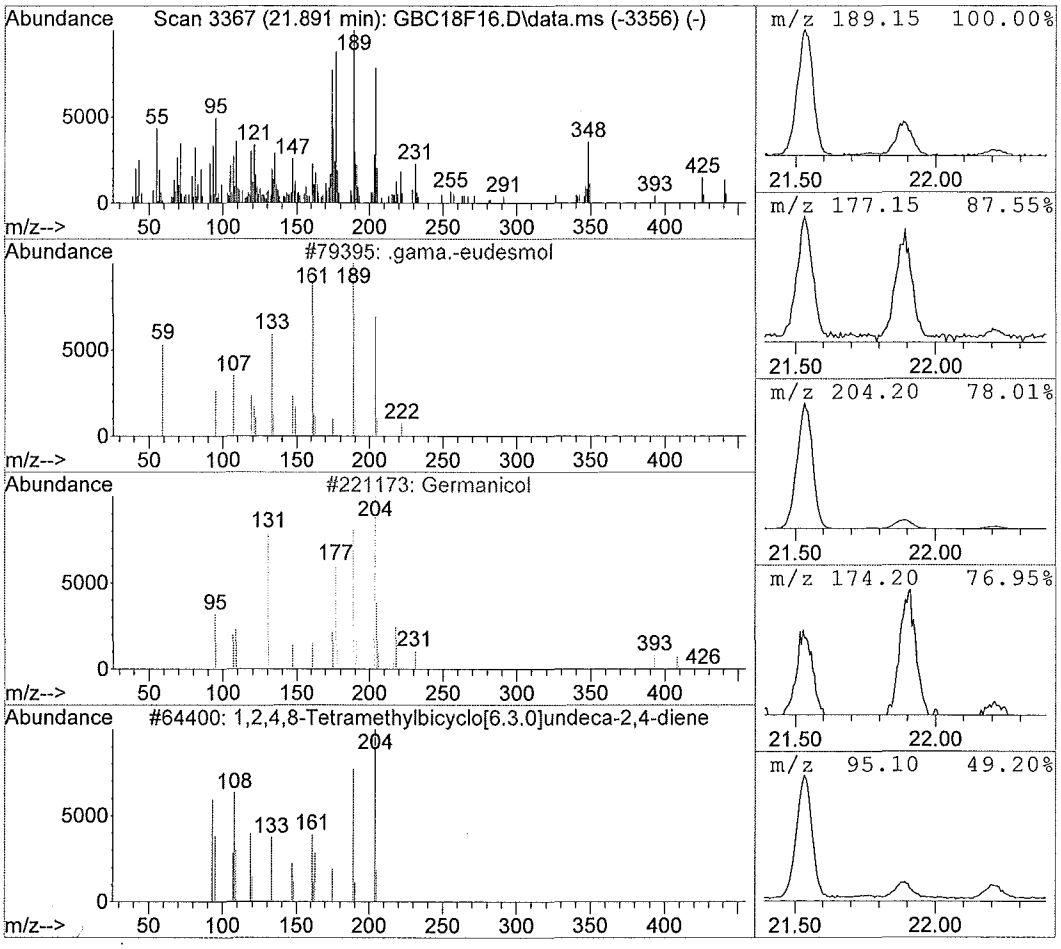
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.89	2.46 ug/ml	375037	Perylene-d12	3050549

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	.gama.-eudesmol	79395	1000374-18-5	42.00
2	Germanicol	221173	000465-02-1	41.00
3	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	35.00
4	.delta.-Selinene	64314	028624-23-9	35.00
5	Hop-22(29)-en-3.beta.-ol	221200	058801-23-3	25.00



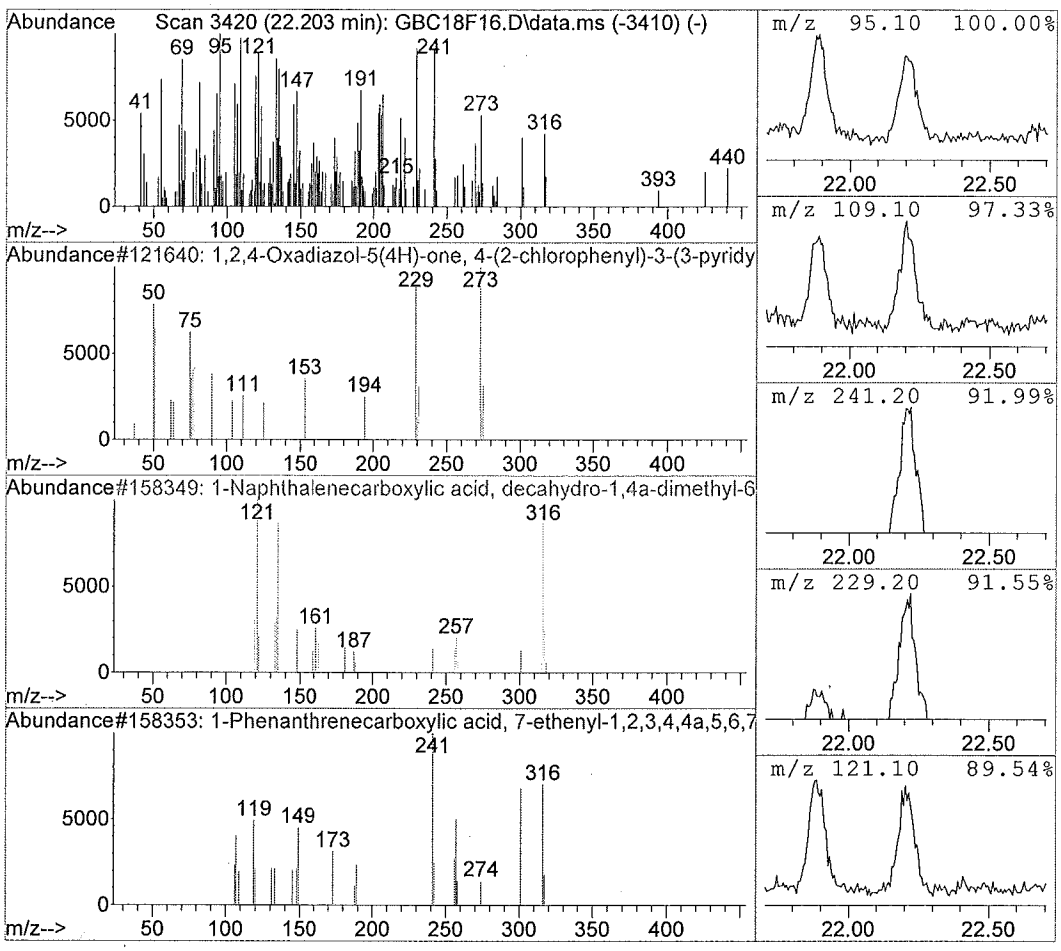
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.20	2.02 ug/ml	307772	Perylene-d12	3050549

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2,4-Oxadiazol-5(4H)-one, 4-(2-chl	121640	288246-55-9	56.00
2	1-Naphthalenecarboxylic acid, decah	158349	001235-39-8	43.00
3	1-Phenanthrenecarboxylic acid, 7-et	158353	003582-26-1	38.00
4	1-Phenanthrenecarboxylic acid, 7-et	158355	019907-21-2	35.00
5	2-(4-tert-Butyl-phenyl)-1-oxy-2,4-d	145250	1000317-97-5	25.00



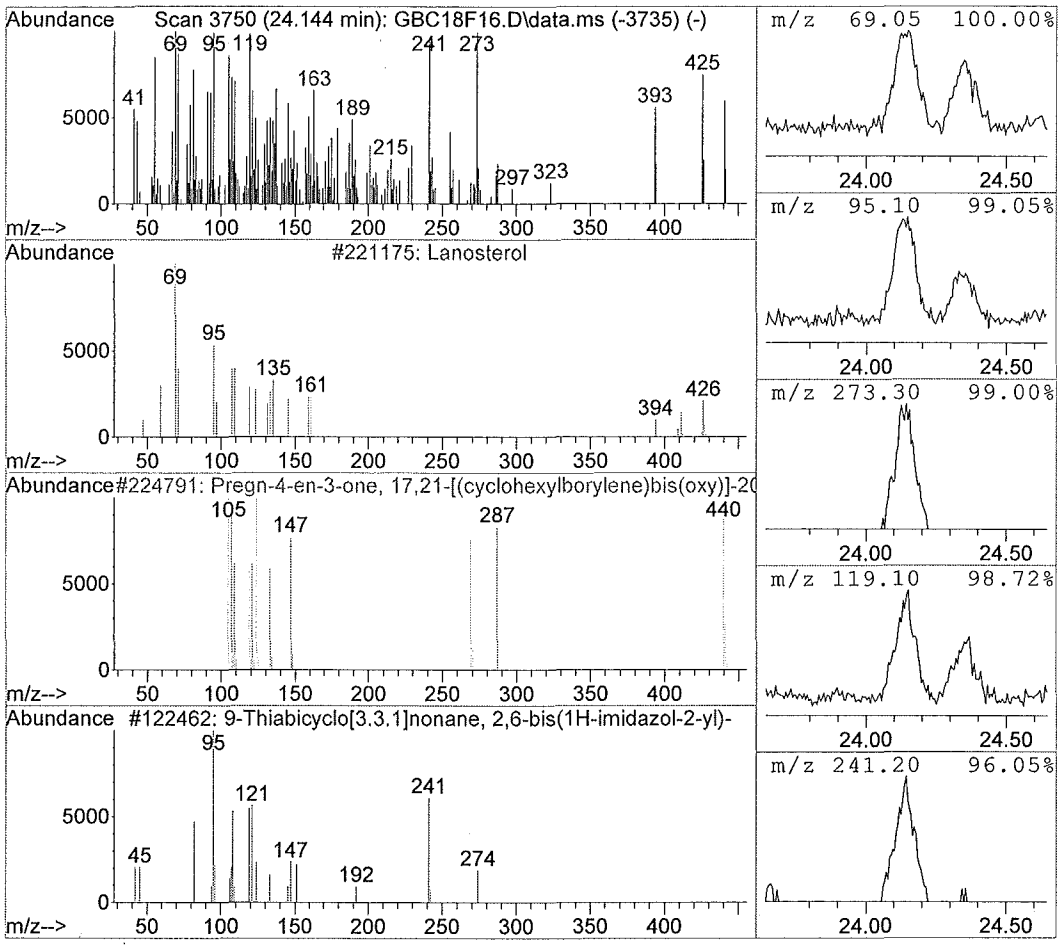
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	2.47 ug/ml	377271	Perylene-d12	3050549

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Lanosterol	221175	000079-63-0	53.00
2	Pregn-4-en-3-one, 17,21-[(cyclohexy	224791	030888-45-0	30.00
3	9-Thiabicyclo[3.3.1]nonane, 2,6-bis	122462	1000141-52-1	18.00
4	5-Cholene, 3,24-dihydroxy-	190889	1000251-69-2	16.00
5	D:A-Friedooleanan-28-al, 3-oxo-	224969	014440-40-5	16.00



1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L72

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293017

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GBC19F17

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 6.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	200	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L72

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293017

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GBC19F17

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 6.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9L72

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293017

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GBC19F17

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 6.2 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 2,2-dimethoxy-	2.12	310	JB
02	763-93-9	3-Hexen-2-one	3.22	270	JN
03		Unknown 2-Pentanone, 4-hydroxy-	3.38	220	J
04		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.60	16000	J
05		Unknown 3-Hexene-2,5-dione	4.35	460	JB
06	629-54-9	Hexadecanamide	14.25	180	JNB
07	301-02-0	9-Octadecenamide, (Z)-	15.17	1300	JNB
08		Unknown N-(3-Methyl-2,5-dioxo-imidazolidin-4-yl)	16.31	120	J
09	112-84-5	13-Docosenamide, (Z)-	17.12	260	JN
10		Unknown 2,5,5,8a-Tetramethyl-6,7,8,8a-tetrahydrc	21.54	1700	J
11		Unknown 2-Isopropenyl-4a,8-dimethyl-1,2,3,4,4a,5	21.89	210	J
12		Unknown 1,2,4-Oxadiazol-5(4H)-one, 4-(2-chloroph	22.21	120	J
13		Unknown Ergosta-7,22-dien-3-ol, acetate, (3.beta	24.14	200	J
14		Unknown 4-Phosphacyclopentene, 4-mesityl-	24.36	110	J
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.

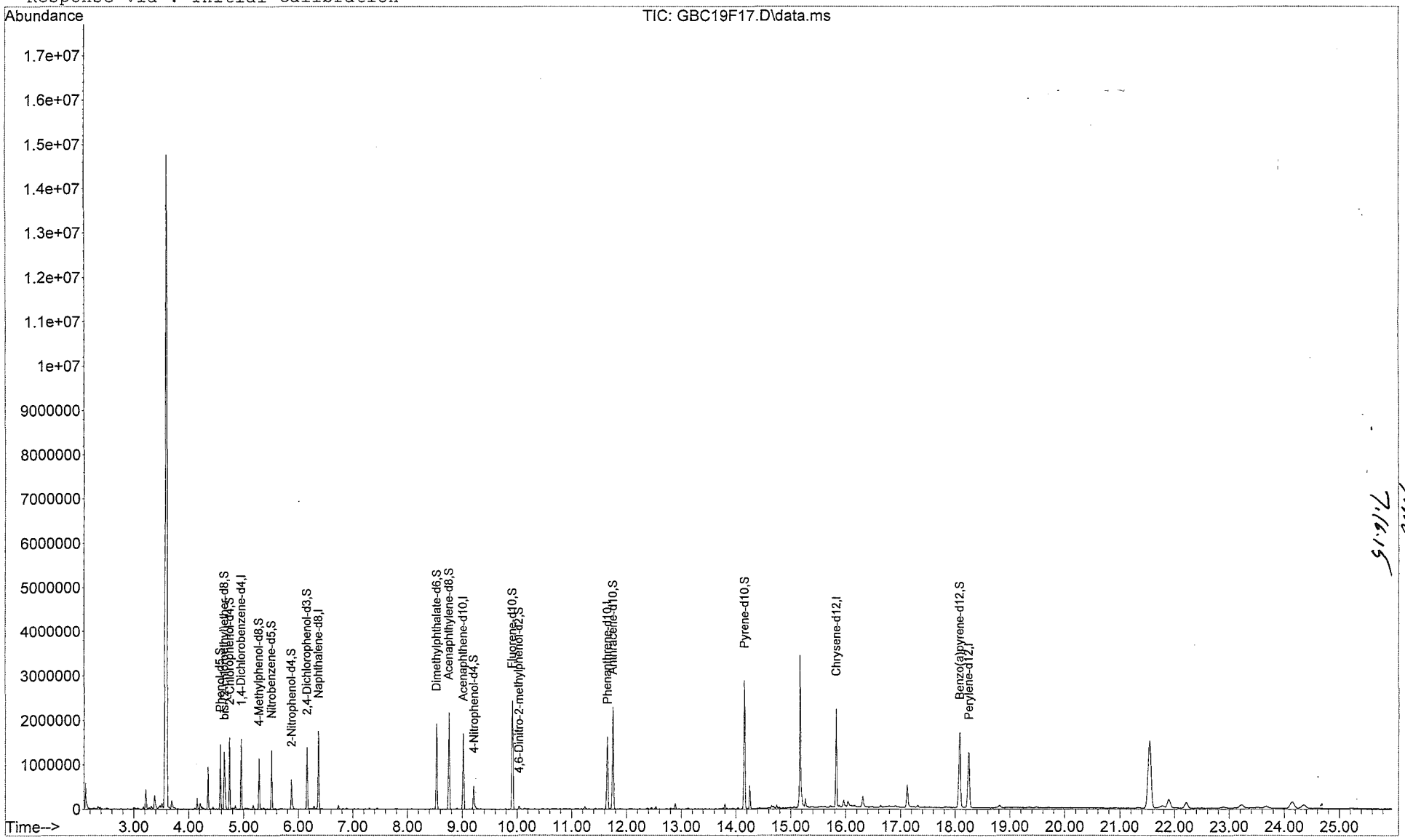
Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC19F17.D
Acq On : 06/02/2015 23:10
Sample : 1514293017 F9L72
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 18
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 14:45:36 2015 Results File: GSOM01D4.RES

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



7.16.15

Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:45:36 2015 Results File: GSOM01D4.RES

Method : R:\G\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	277060	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1032223	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	588610	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	983824	20.00 ug/ml
73) Chrysene-d12	15.83	240	957127	20.00 ug/ml
81) Perylene-d12	18.24	264	938384	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	538943	27.895ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	274788	23.228ug/mL
7) 2-Chlorophenol-d4	4.75	132	515726	27.187ug/ml
13) 4-Methylphenol-d8	5.28	113	275117	18.290ug/mL
17) Nitrobenzene-d5	5.51	128	241026	27.831ug/ml
21) 2-Nitrophenol-d4	5.87	143	173923	18.021ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	361776	25.588ug/mL
28) 4-Chloroaniline-d4	6.43	131	5914	0.386ug/mL
42) Dimethylphthalate-d6	8.53	166	1198747	33.487ug/mL
45) Acenaphthylene-d8	8.76	160	1389567	29.087ug/mL
50) 4-Nitrophenol-d4	9.21	143	188347	24.708ug/mL
57) Fluorene-d10	9.92	176	1013224	32.588ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	16725	2.588ug/mL
69) Anthracene-d10	11.75	188	1491302	29.966ug/mL
75) Pyrene-d10	14.16	212	1385517	31.841ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1269015	29.814ug/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 : R:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:45:36 2015 Results File: GSOM01D4.RES

Method : R:\G\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)

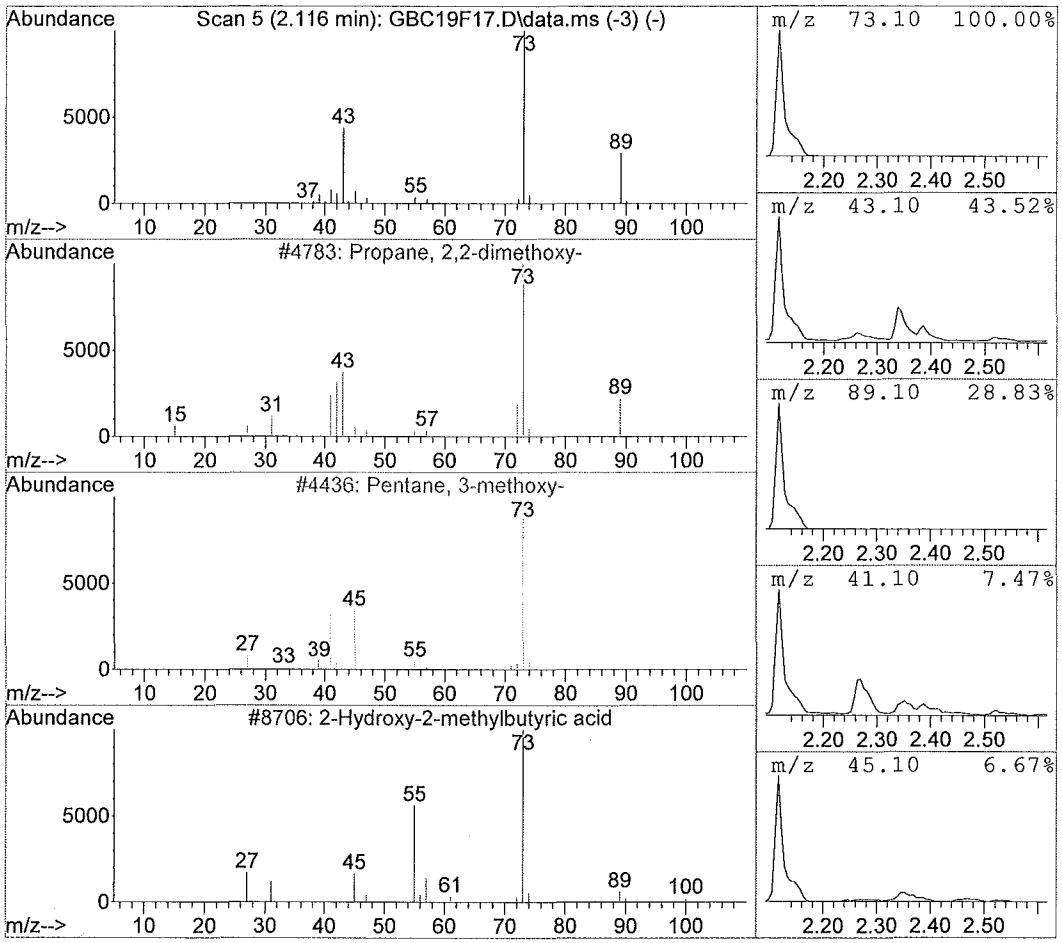
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.12	8.11 ug/ml	630863	1,4-Dichlorobenzene-d4	1555689

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 2,2-dimethoxy-	4783	000077-76-9	56.00
2	Pentane, 3-methoxy-	4436	036839-67-5	25.00
3	2-Hydroxy-2-methylbutyric acid	8706	003739-30-8	9.00
4	Propane, 2-methoxy-2-methyl-	2137	001634-04-4	9.00
5	1-(2-Methoxyethoxy)-2-methyl-2-prop	32662	1000364-24-4	9.00



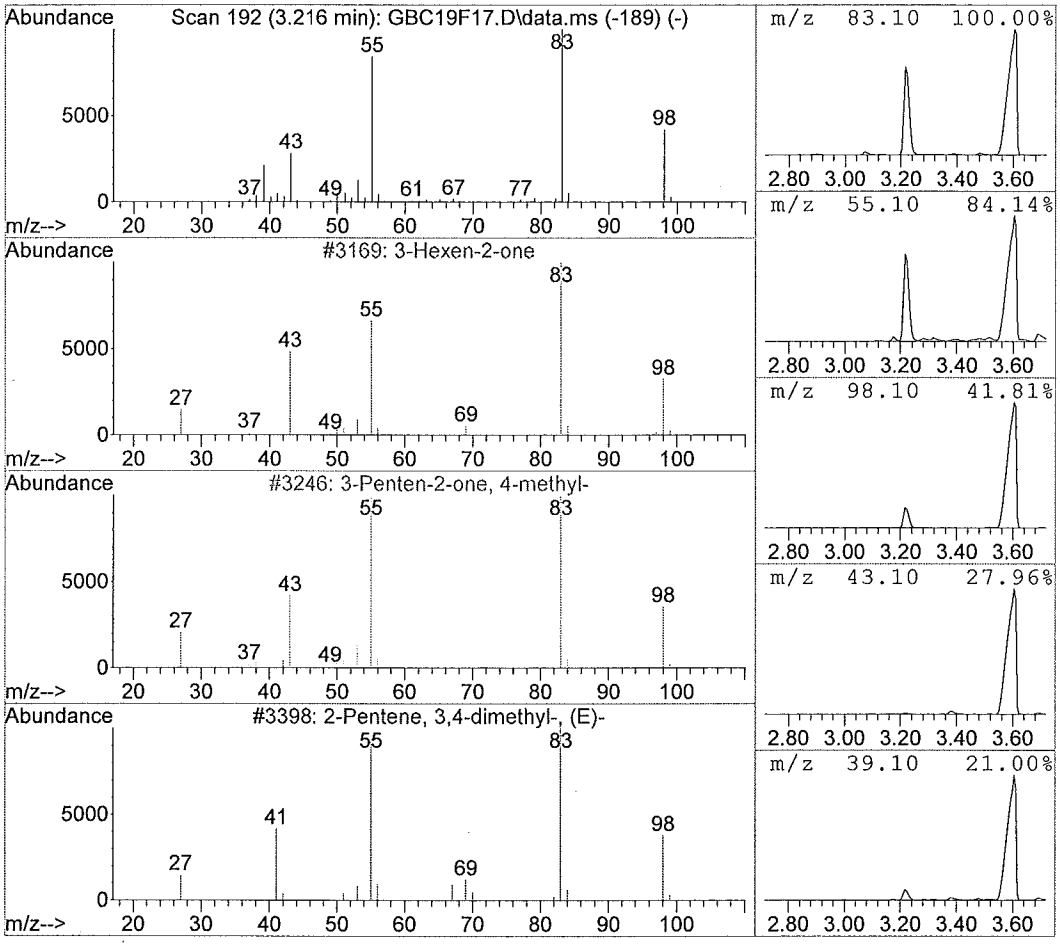
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.22	7.08 ug/ml	550455	1,4-Dichlorobenzene-d4	1555689

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexen-2-one	3169	000763-93-9	91.00
2	3-Penten-2-one, 4-methyl-	3246	000141-79-7	91.00
3	2-Pentene, 3,4-dimethyl-, (E)-	3398	004914-92-5	86.00
4	2-Pentene, 2,3-dimethyl-	3370	010574-37-5	78.00
5	2-Pentene, 3,4-dimethyl-, (Z)-	3403	004914-91-4	78.00



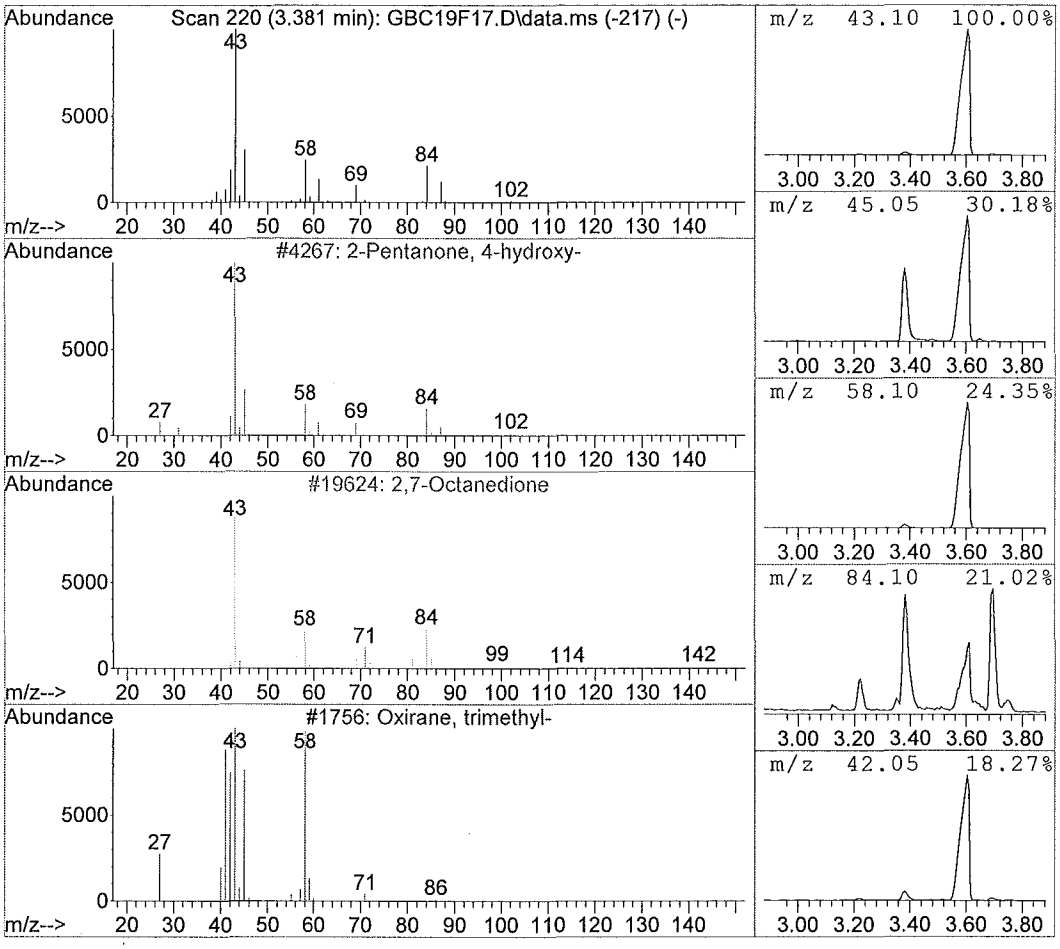
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	5.58 ug/ml	433935	1,4-Dichlorobenzene-d4	1555689

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	50.00
2	2,7-Octanedione	19624	001626-09-1	28.00
3	Oxirane, trimethyl-	1756	005076-19-7	12.00
4	Acetone	217	000067-64-1	9.00
5	Methylene diamine, N,N'-diacetyl-	13181	003852-14-0	9.00



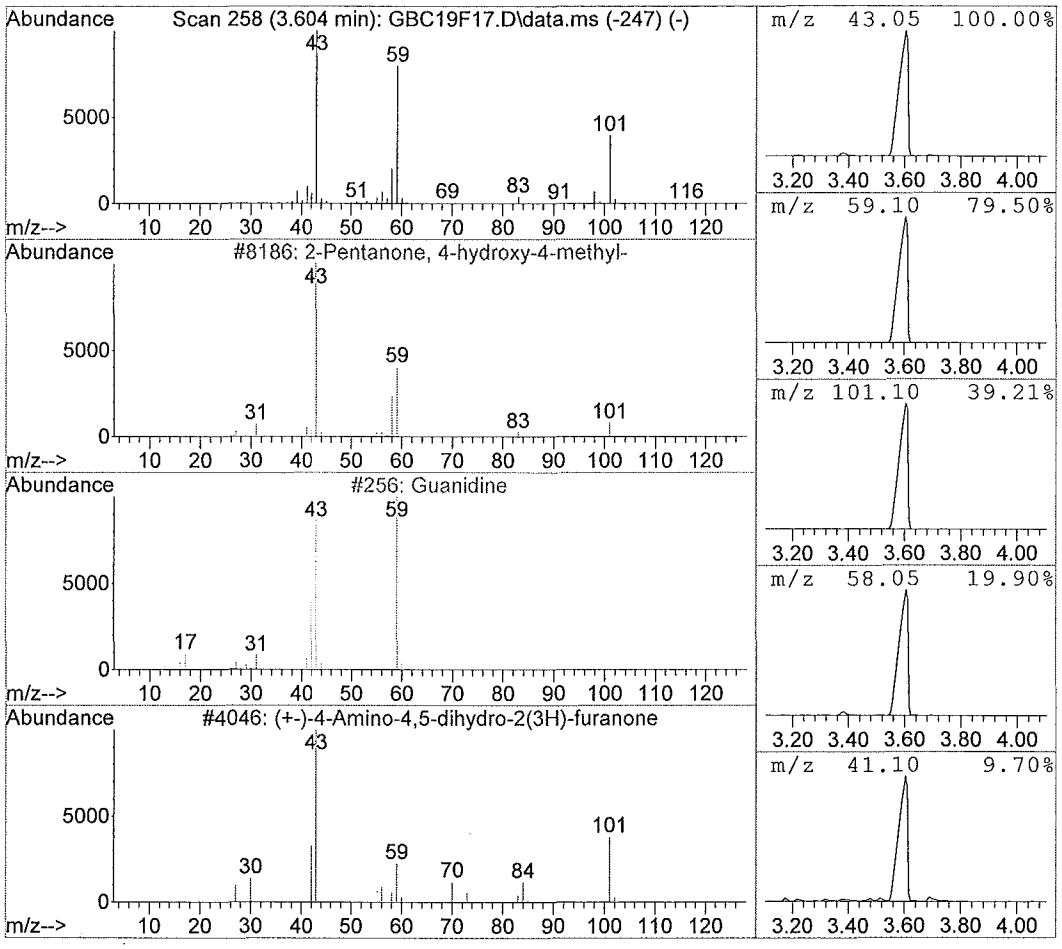
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	411.39 ug/ml	31999937	1,4-Dichlorobenzene-d4	1555689

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



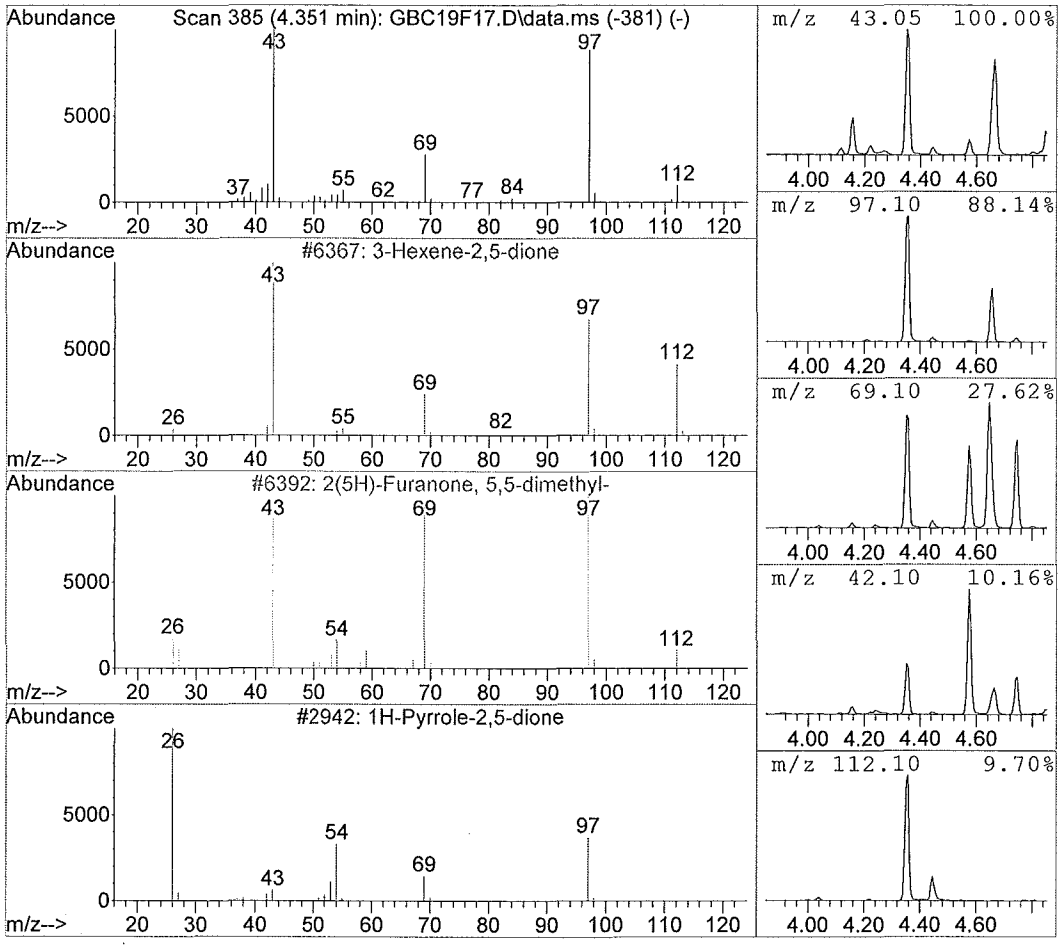
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	11.95 ug/ml	929677	1,4-Dichlorobenzene-d4	1555689

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	2942	000541-59-3	53.00
4	5-Hexen-2-one, 5-methyl-	6529	003240-09-3	10.00
5	1-(Trimethylsilyl)-1-propyne	6340	006224-91-5	9.00



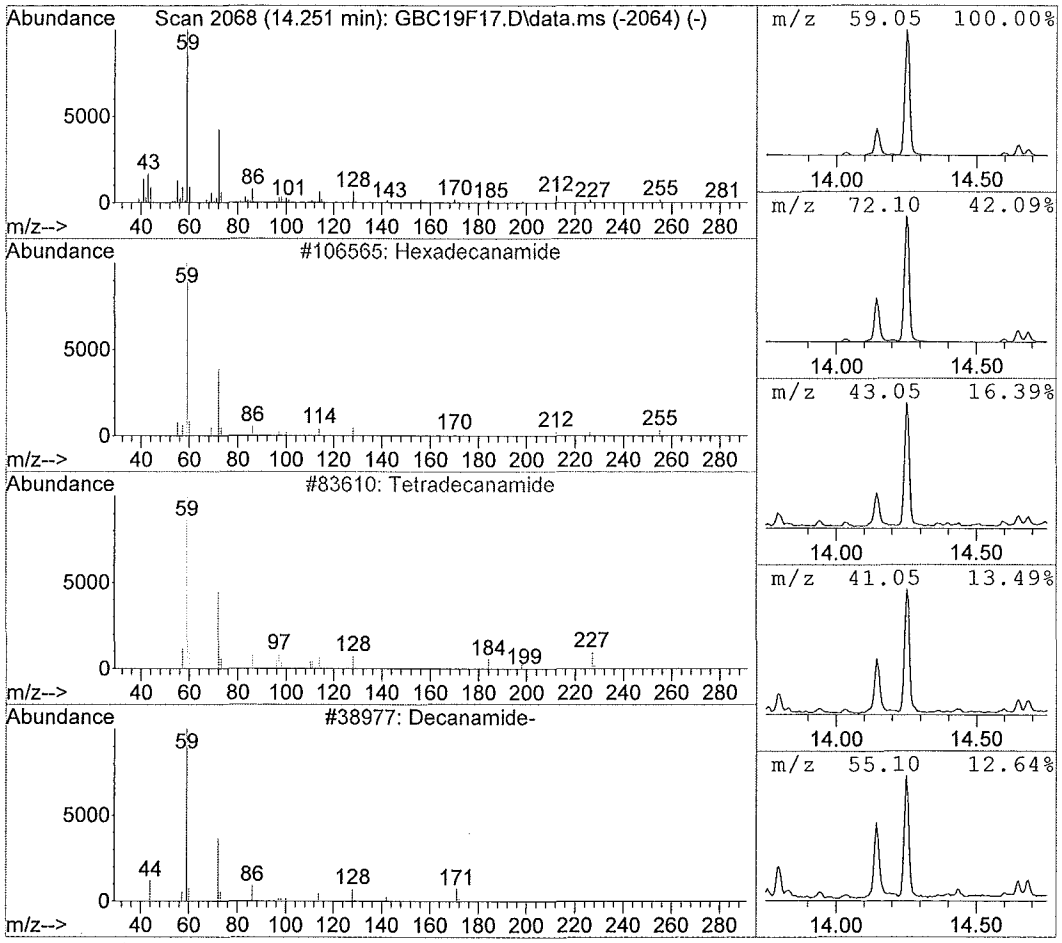
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	4.61 ug/ml	622576	Chrysene-d12	2702390

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	95.00
2	Tetradecanamide	83610	000638-58-4	87.00
3	Decanamide-	38977	002319-29-1	78.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	72.00
5	Dodecanamide	60439	001120-16-7	64.00



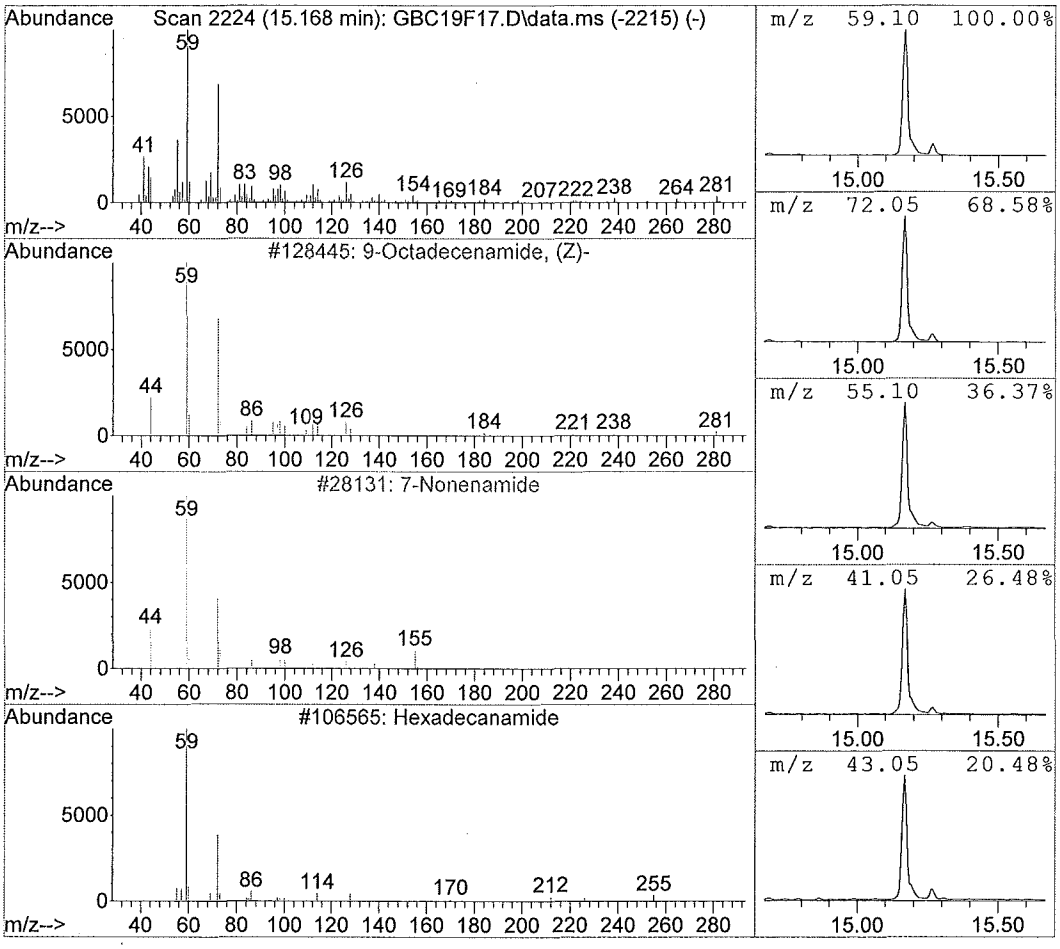
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	34.28 ug/ml	4632257	Chrysene-d12	2702390

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	98.00
2	7-Nonenamide	28131	090949-53-4	64.00
3	Hexadecanamide	106565	000629-54-9	53.00
4	Dodecanamide	60440	001120-16-7	53.00
5	Nonanamide	29478	001120-07-6	50.00



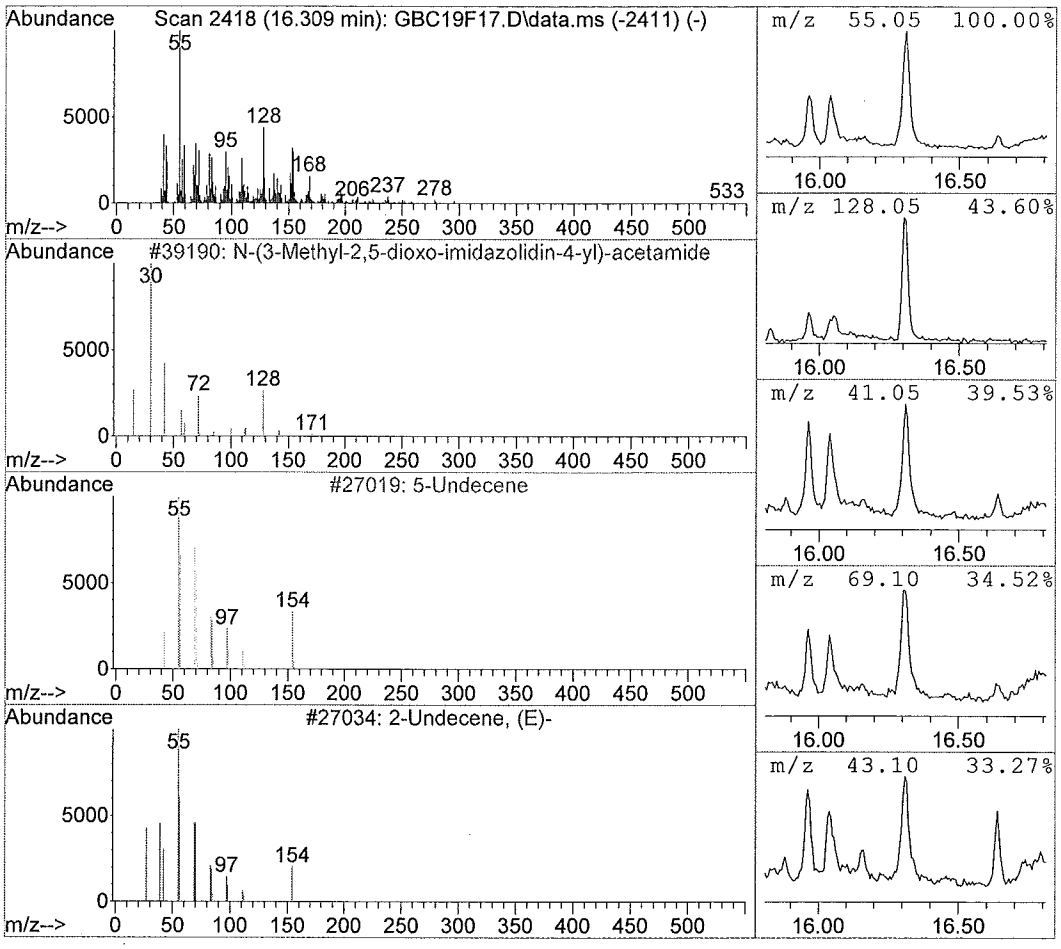
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.31	3.07 ug/ml	415296	Chrysene-d12	2702390

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	N-(3-Methyl-2,5-dioxo-imidazolidin-	39190	1000287-36-8	18.00
2	5-Undecene	27019	004941-53-1	11.00
3	2-Undecene, (E)-	27034	000693-61-8	11.00
4	Cyclohexanecarboxamide	11822	001122-56-1	11.00
5	2-(3-Hydroxybutyl)cyclooctanone	59547	110288-21-6	10.00



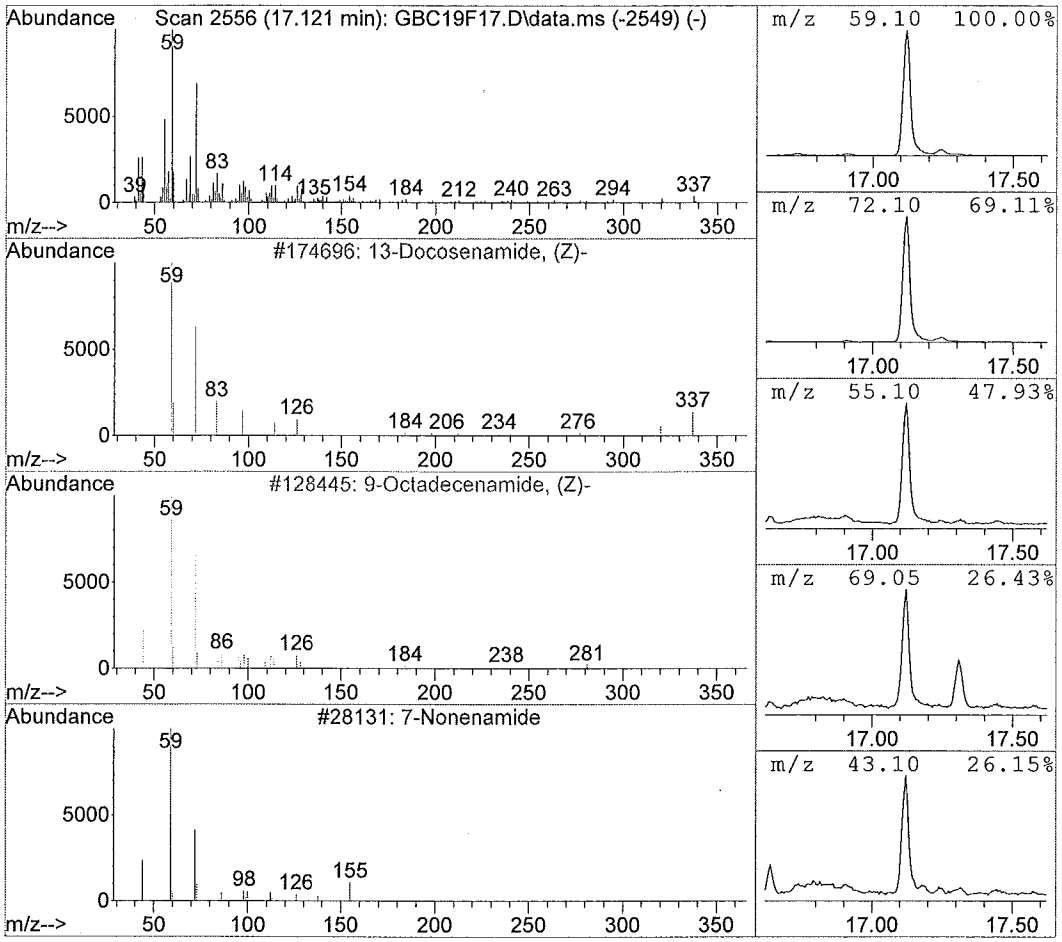
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	6.64 ug/ml	922728	Perylene-d12	2778085

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174696	000112-84-5	95.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	91.00
3	7-Nonenamide	28131	090949-53-4	64.00
4	Tetradecanamide	83610	000638-58-4	50.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	47.00



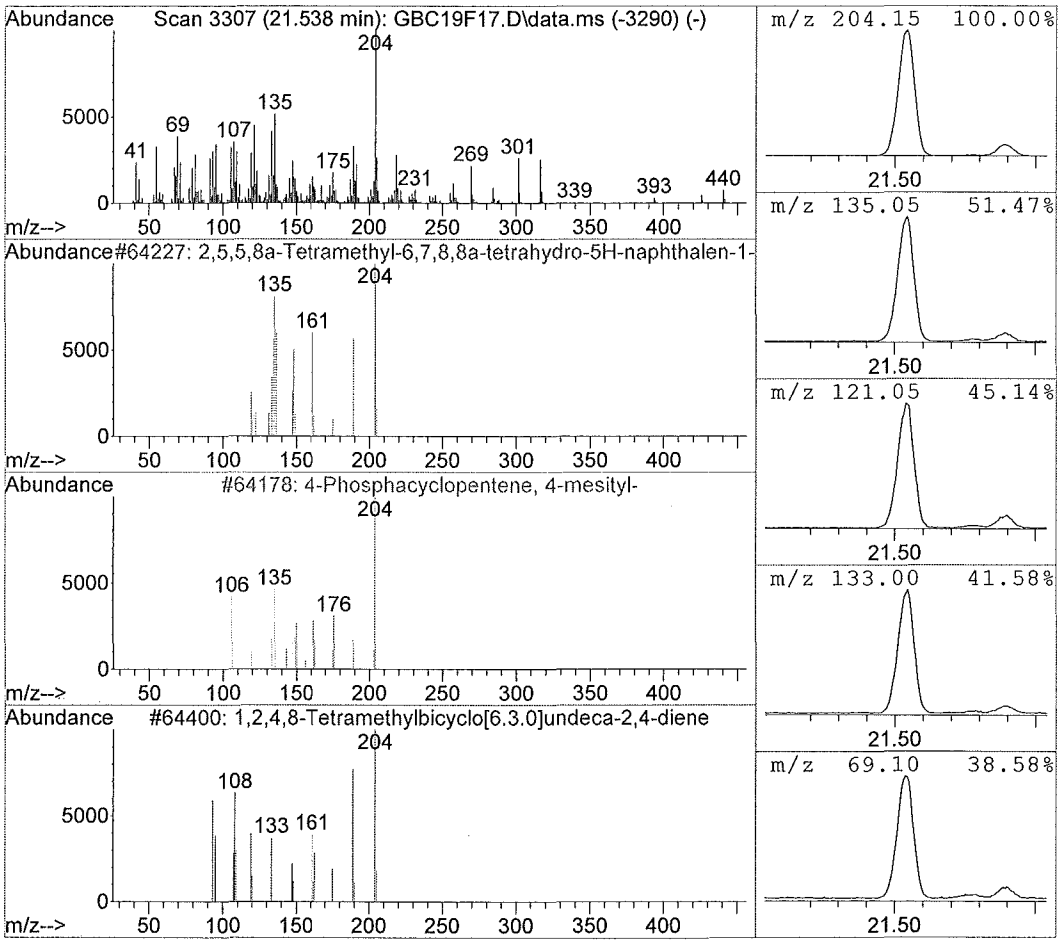
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	43.62 ug/ml	6059678	Perylene-d12	2778085

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	45.00
2	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	43.00
3	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	41.00
4	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64569	000489-40-7	41.00
5	3H-3a,7-Methanoazulene, 2,4,5,6,7,8	64520	002387-78-2	38.00



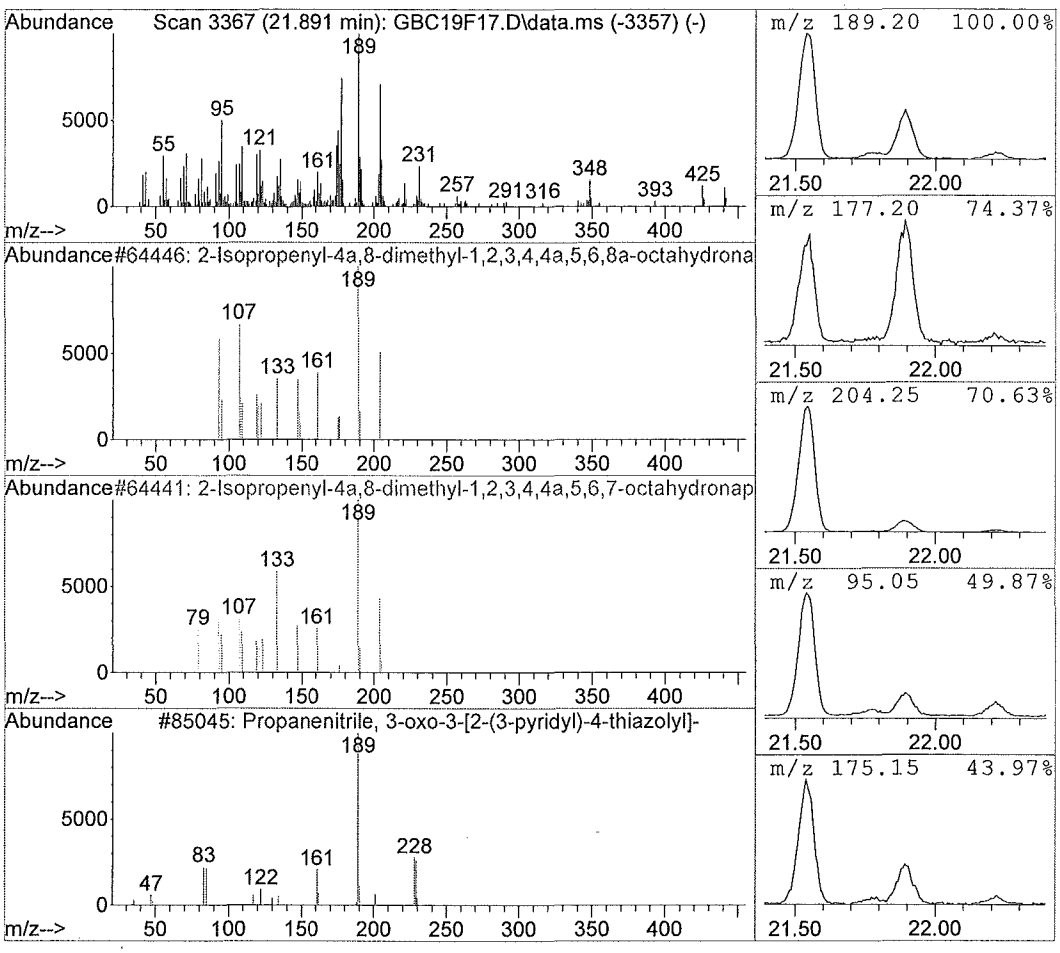
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.89	5.44 ug/ml	755877	Perylene-d12	2778085

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Isopropenyl-4a,8-dimethyl-1,2,3,4	64446	1000193-57-0	49.00
2	2-Isopropenyl-4a,8-dimethyl-1,2,3,4	64441	1000192-43-5	38.00
3	Propanenitrile, 3-oxo-3-[2-(3-pyrid	85045	1000270-54-6	25.00
4	trans-.beta.-Ionone	54600	000079-77-6	25.00
5	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	25.00



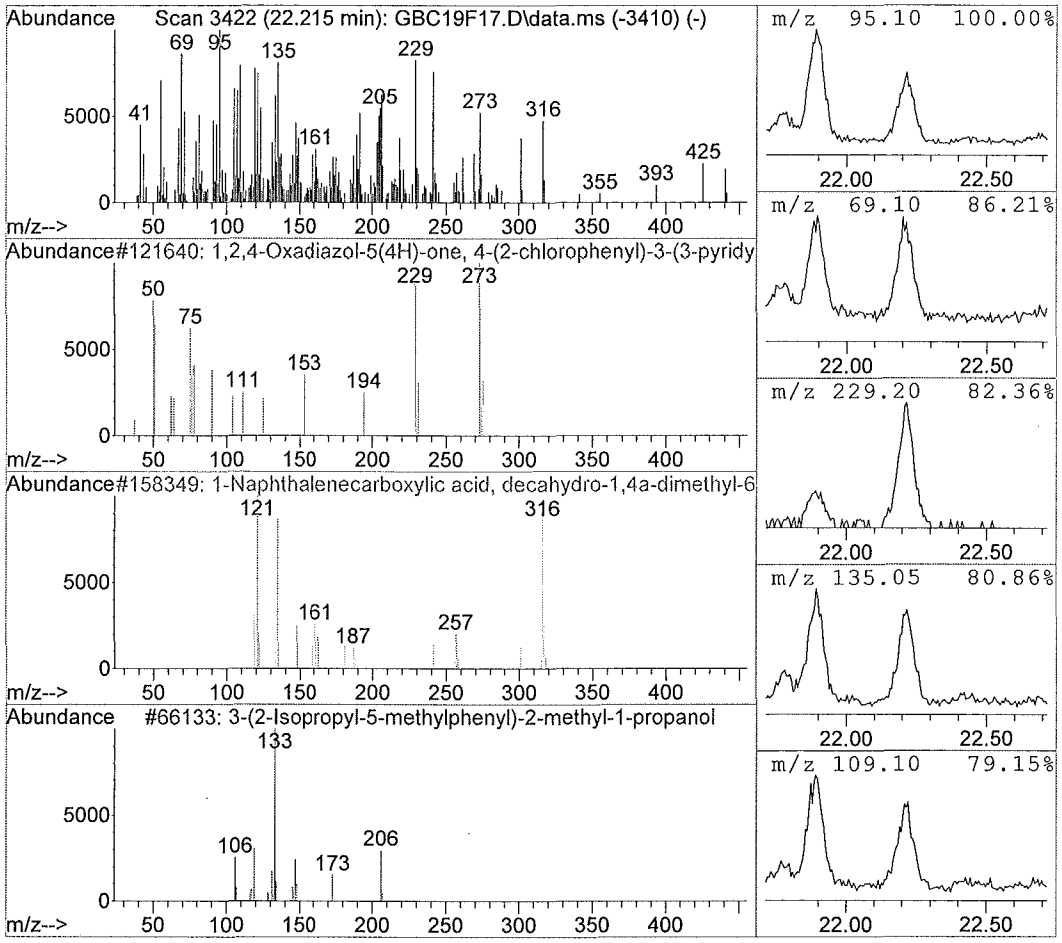
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.21	3.20 ug/ml	444521	Perylene-d12	2778085

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2,4-Oxadiazol-5(4H)-one, 4-(2-chl	121640	288246-55-9	56.00
2	1-Naphthalenecarboxylic acid, decah	158349	001235-39-8	49.00
3	3-(2-Isopropyl-5-methylphenyl)-2-me	66133	022291-56-1	44.00
4	Farnesyl bromide	130771	006874-67-5	41.00
5	1-Naphthalenecarboxylic acid, decah	158354	015798-13-7	27.00



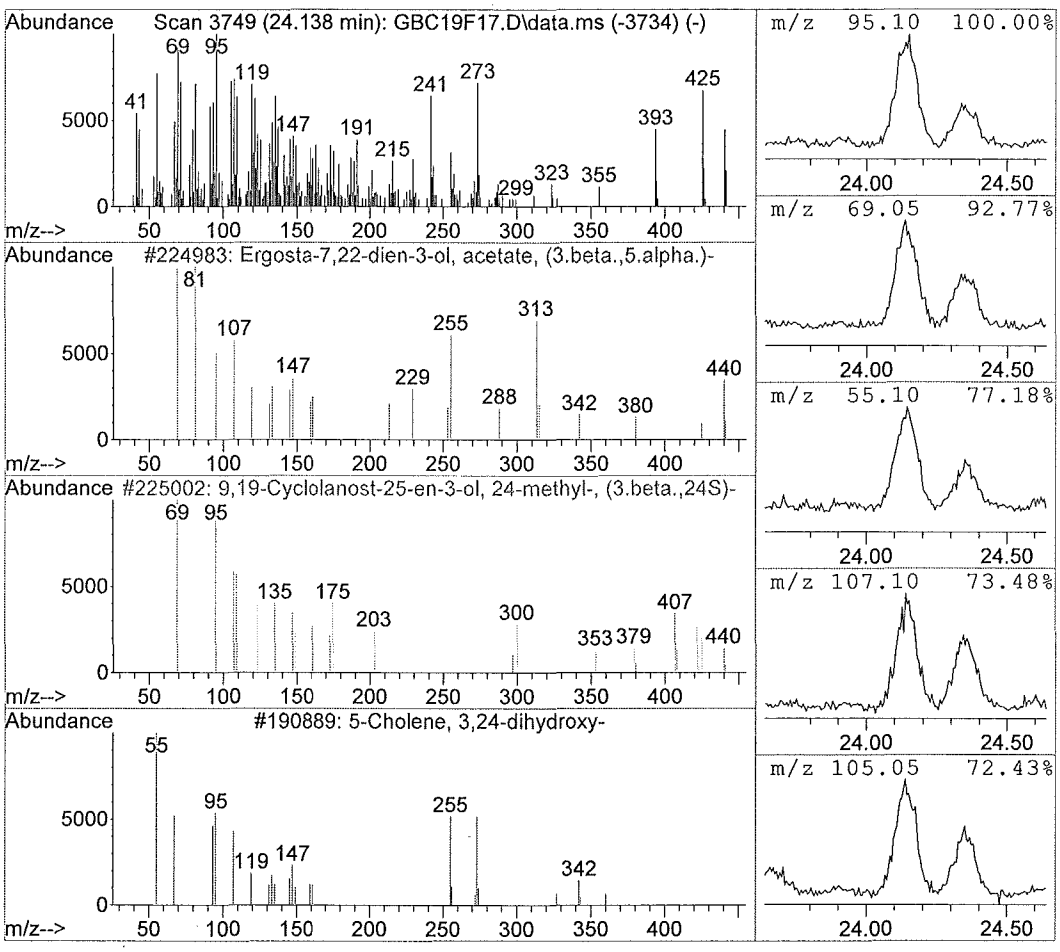
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	5.23 ug/ml	726323	Perylene-d12	2778085

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ergosta-7,22-dien-3-ol, acetate, (3	224983	001449-60-1	38.00
2	9,19-Cyclolanost-25-en-3-ol, 24-met	225002	000511-61-5	27.00
3	5-Cholene, 3,24-dihydroxy-	190889	1000251-69-2	25.00
4	9-Thiabicyclo[3.3.1]nonane, 2,6-bis	122462	1000141-52-1	14.00
5	13,15-Octacosadiyne	205920	024643-46-7	12.00



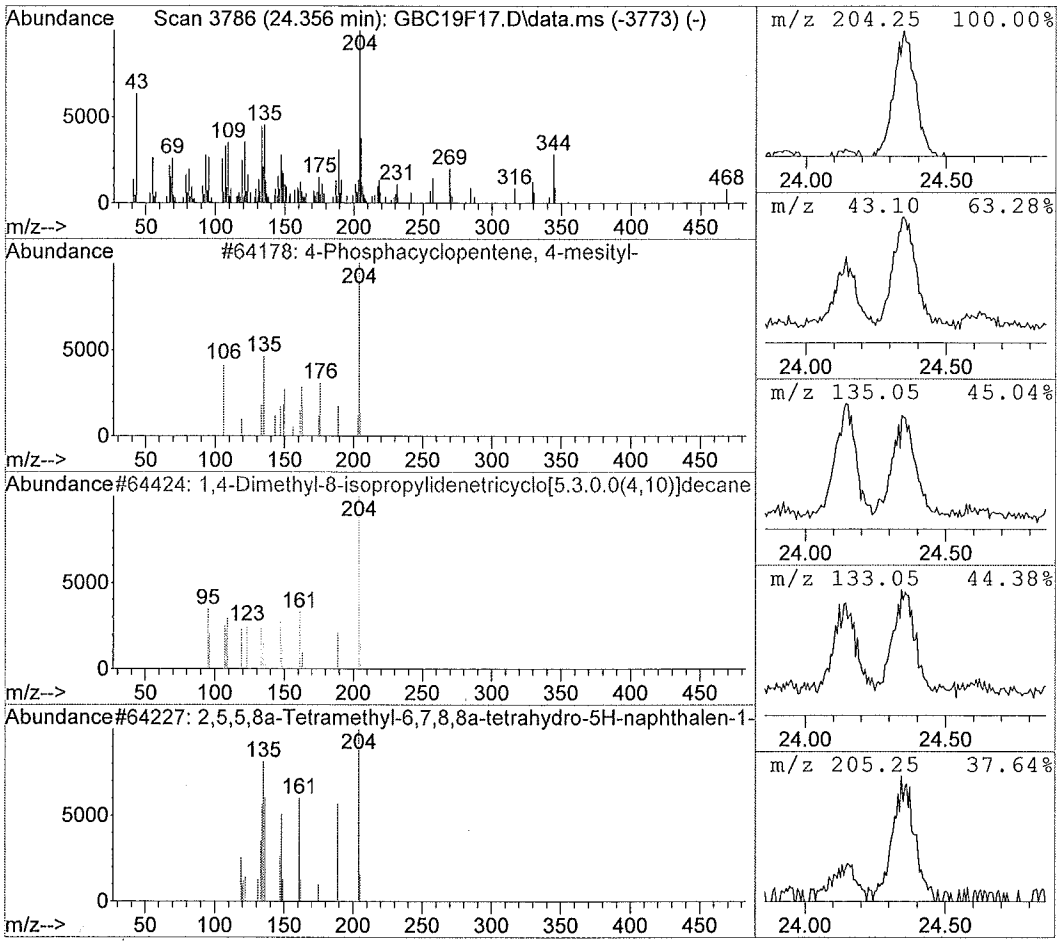
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.36	2.74 ug/ml	381258	Perylene-d12	2778085

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	46.00
2	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	45.00
3	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	43.00
4	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64574	000489-40-7	43.00
5	.alpha.-D-Glucopyranoside, methyl 2	232822	002641-79-4	43.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L73

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293018

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC23F18

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/03/2015

GPC Cleanup: (Y/N) Y pH: 5.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	200	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L73

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293018

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC23F18

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/03/2015

GPC Cleanup: (Y/N) Y pH: 5.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9L73

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293018

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC23F18

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/03/2015

GPC Cleanup: (Y/N) Y pH: 5.7 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 2,2-dimethoxy-	2.13	340	JB
02		Unknown 2-Pentanone, 4-hydroxy-	3.38	190	J
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.60	12000	J
04		Unknown 3-Hexene-2,5-dione	4.36	470	JB
05	629-54-9	Hexadecanamide	14.25	140	JNB
06	301-02-0	9-Octadecenamide, (Z)-	15.17	1300	JNB
07		Unknown Cyclohexanecarboxamide	16.31	86.	J
08	112-84-5	13-Docosenamide, (Z)-	17.12	370	JN
09		Unknown 2,5,5,8a-Tetramethyl-6,7,8,8a-tetrahydrc	21.54	1400	J
10		Unknown Thiophene, 2-ethynyl-5-[(trimethylsilyl)	21.89	140	J
11		Unknown 1-Naphthalenecarboxylic acid, decahydro-	22.21	120	J
12		Unknown Lanosterol	24.14	150	J
13		Unknown 4-Phosphacyclopentene, 4-mesityl-	24.35	120	J
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	160	J

[2] EPA-designated Registry Number.

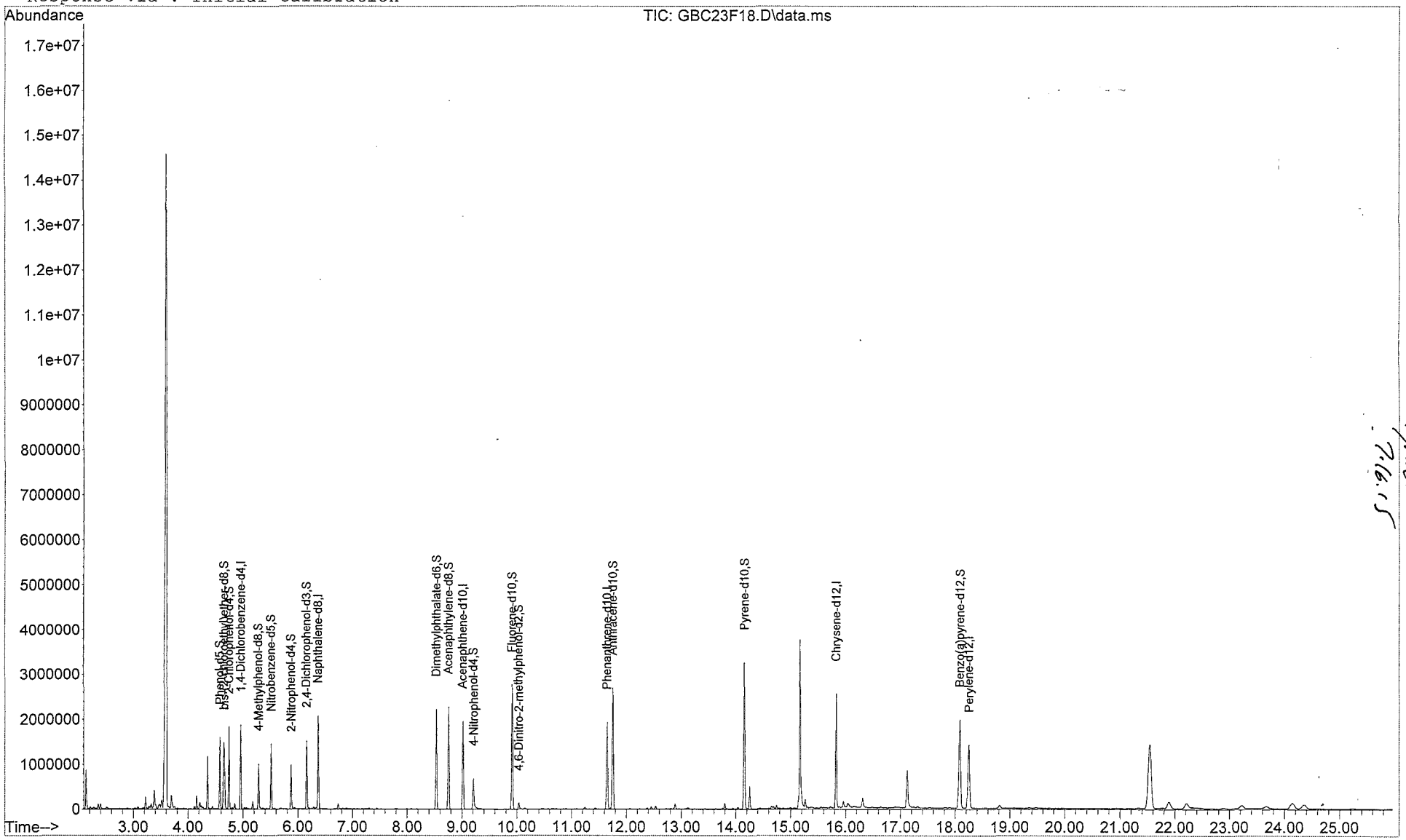
Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC23F18.D
Acq On : 06/03/2015 01:18
Sample : 1514293018 F9L73
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 19
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 14:46:10 2015 Results File: GSOM01D4.RES

Method : R:\G\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 : R:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:46:10 2015 Results File: GSOM01D4.RES

Method : R:\G\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	331253	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1227440	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	685170	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1130911	20.00 ug/ml
73) Chrysene-d12	15.83	240	1115257	20.00 ug/ml
81) Perylene-d12	18.25	264	1071538	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	627170	27.151ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	308958	21.844ug/mL
7) 2-Chlorophenol-d4	4.75	132	571598	25.203ug/ml
13) 4-Methylphenol-d8	5.28	113	255462	14.205ug/mL
17) Nitrobenzene-d5	5.51	128	264561	25.690ug/ml
21) 2-Nitrophenol-d4	5.87	143	258828	22.553ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	407949	24.264ug/mL
28) 4-Chloroaniline-d4	6.43	131	2899	0.159ug/mL
42) Dimethylphthalate-d6	8.53	166	1375984	33.022ug/mL
45) Acenaphthylene-d8	8.76	160	1468289	26.403ug/mL
50) 4-Nitrophenol-d4	9.21	143	238563	26.885ug/mL
57) Fluorene-d10	9.92	176	1127429	31.150ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	34439	4.636ug/mL
69) Anthracene-d10	11.75	188	1718761	30.044ug/mL
75) Pyrene-d10	14.16	212	1604060	31.637ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1494809	30.754ug/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)

: 00424

Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:46:10 2015 Results File: GSOM01D4.RES

Method : R:\G\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)

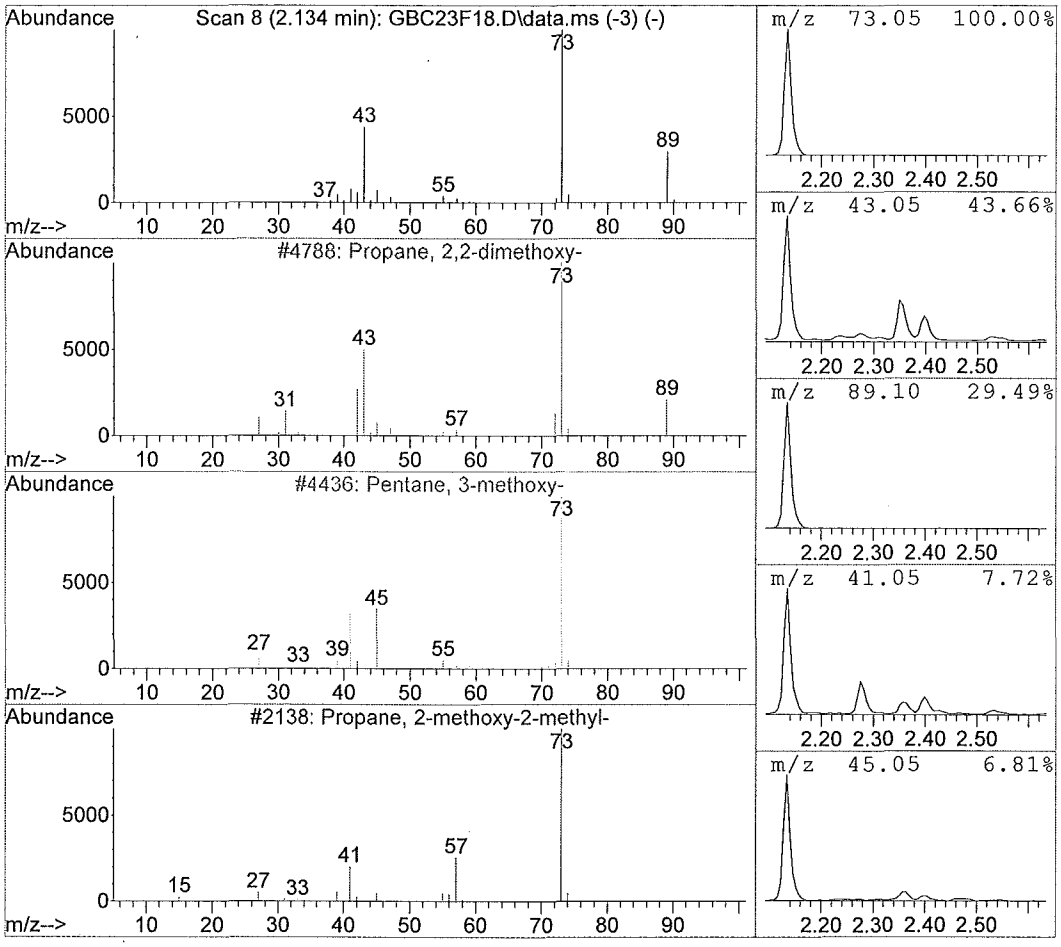
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.13	8.89 ug/ml	818469	1,4-Dichlorobenzene-d4	1841079

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 2,2-dimethoxy-	4788	000077-76-9	38.00
2	Pentane, 3-methoxy-	4436	036839-67-5	17.00
3	Propane, 2-methoxy-2-methyl-	2138	001634-04-4	9.00
4	2-Hydroxy-2-methylbutyric acid	8706	003739-30-8	9.00
5	Methane, isothiocyanato-	716	000556-61-6	7.00



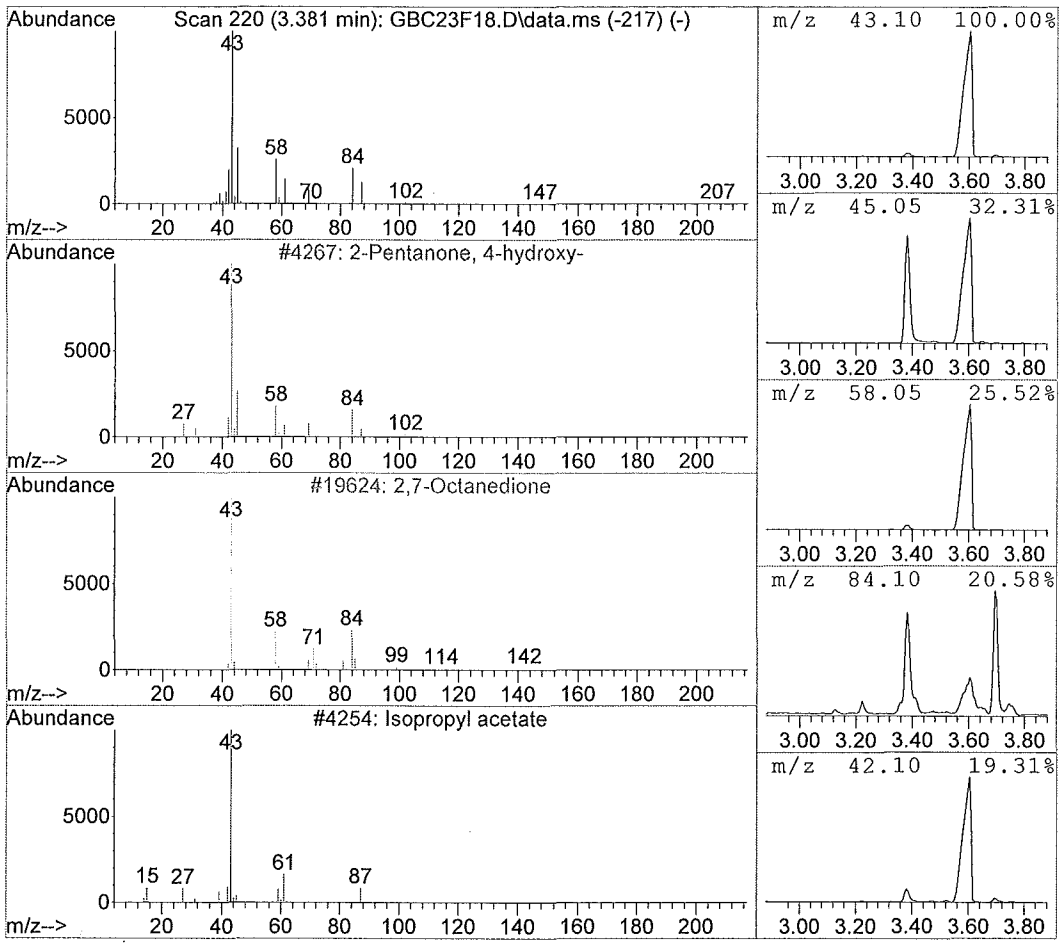
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	5.03 ug/ml	463084	1,4-Dichlorobenzene-d4	1841079

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	72.00
2	2,7-Octanedione	19624	001626-09-1	25.00
3	Isopropyl acetate	4254	000108-21-4	10.00
4	Acetone	217	000067-64-1	9.00
5	2-Butanone, 4-hydroxy-3-methyl-	4328	003393-64-4	9.00



: 00427

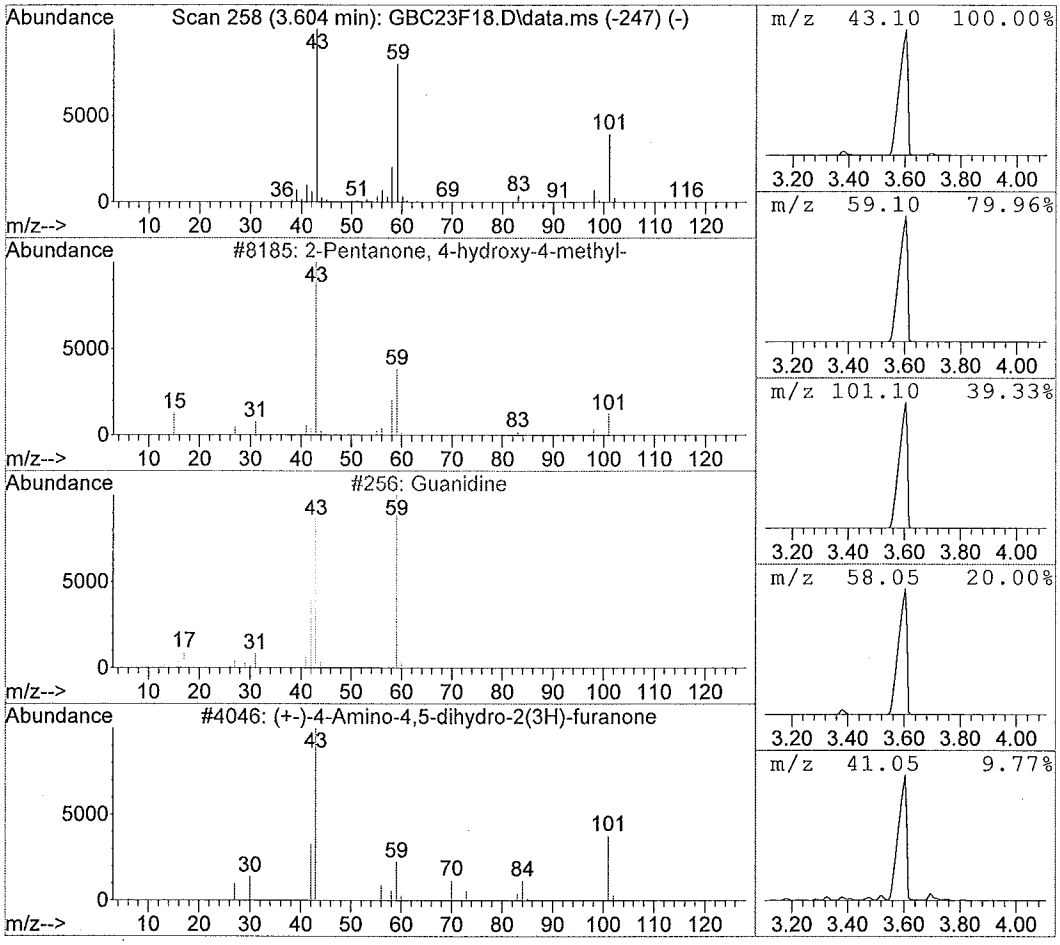
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	319.77 ug/ml	29435686	1,4-Dichlorobenzene-d4	1841079

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	50.00
2	Guanidine	256	000113-00-8	43.00
3	(+-)-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



Library Search Compound Report

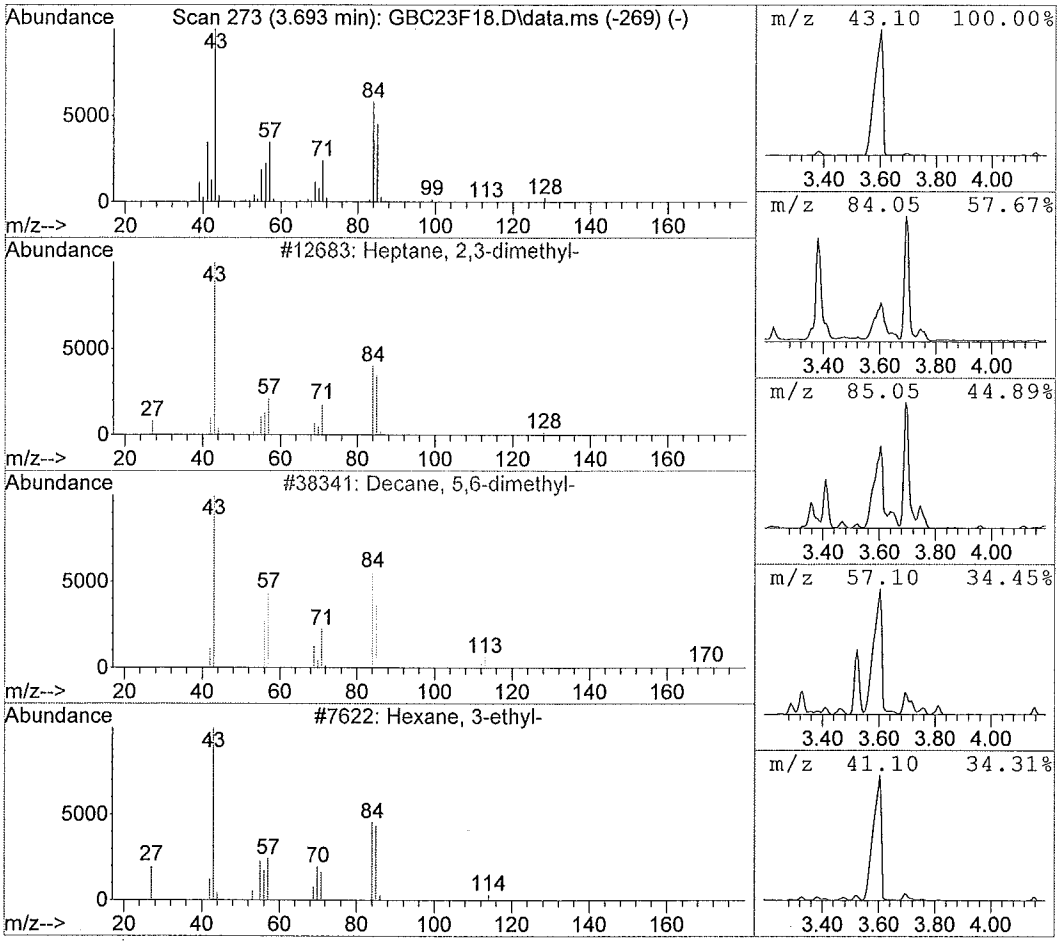
Data File : R:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.69	4.20 ug/ml	386947	1,4-Dichlorobenzene-d4	1841079

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12683	003074-71-3	87.00
2	Decane, 5,6-dimethyl-	38341	001636-43-7	83.00
3	Hexane, 3-ethyl-	7622	000619-99-8	74.00
4	Hexanal, 3,3-dimethyl-	12523	055320-57-5	59.00
5	Hexane, 2,3,5-trimethyl-	12708	001069-53-0	58.00

BA



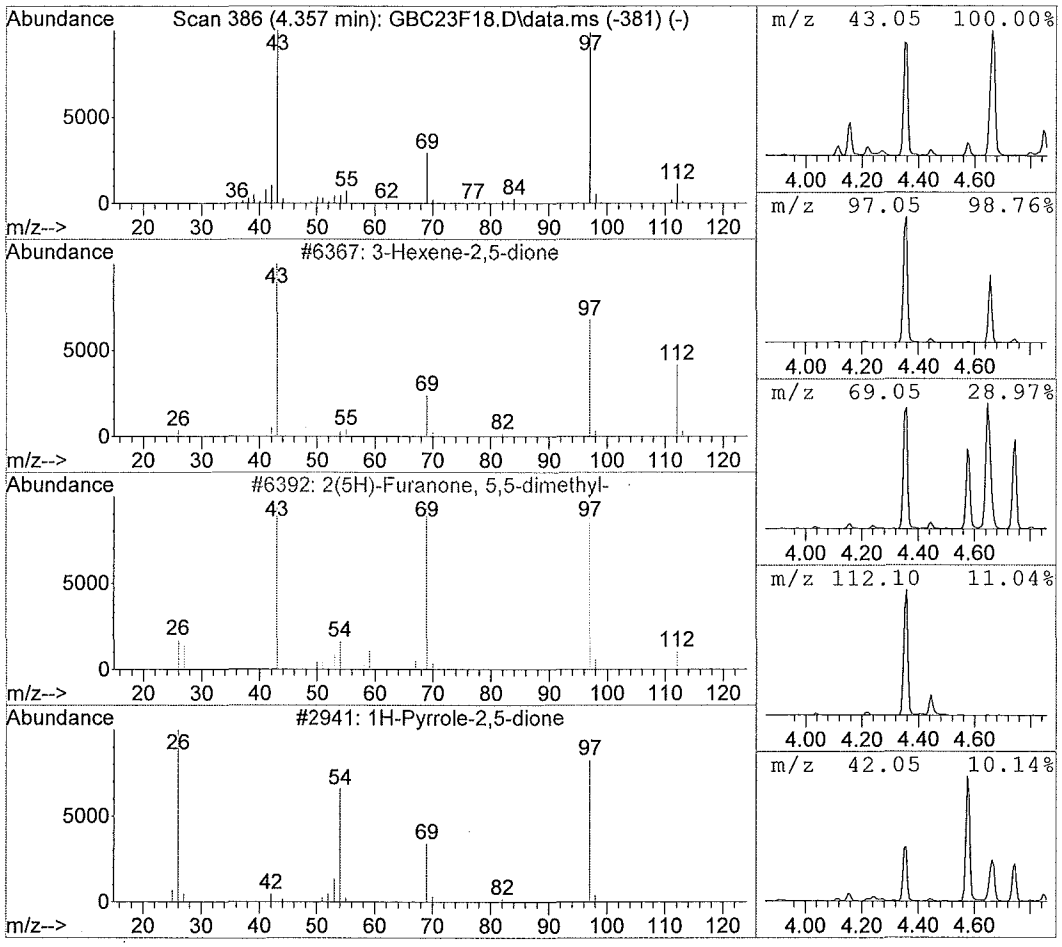
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	12.35 ug/ml	1136927	1,4-Dichlorobenzene-d4	1841079

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	50.00
3	1H-Pyrrole-2,5-dione	2941	000541-59-3	40.00
4	5-Hexen-2-one, 5-methyl-	6529	003240-09-3	10.00
5	1-(Trimethylsilyl)-1-propyne	6339	006224-91-5	9.00



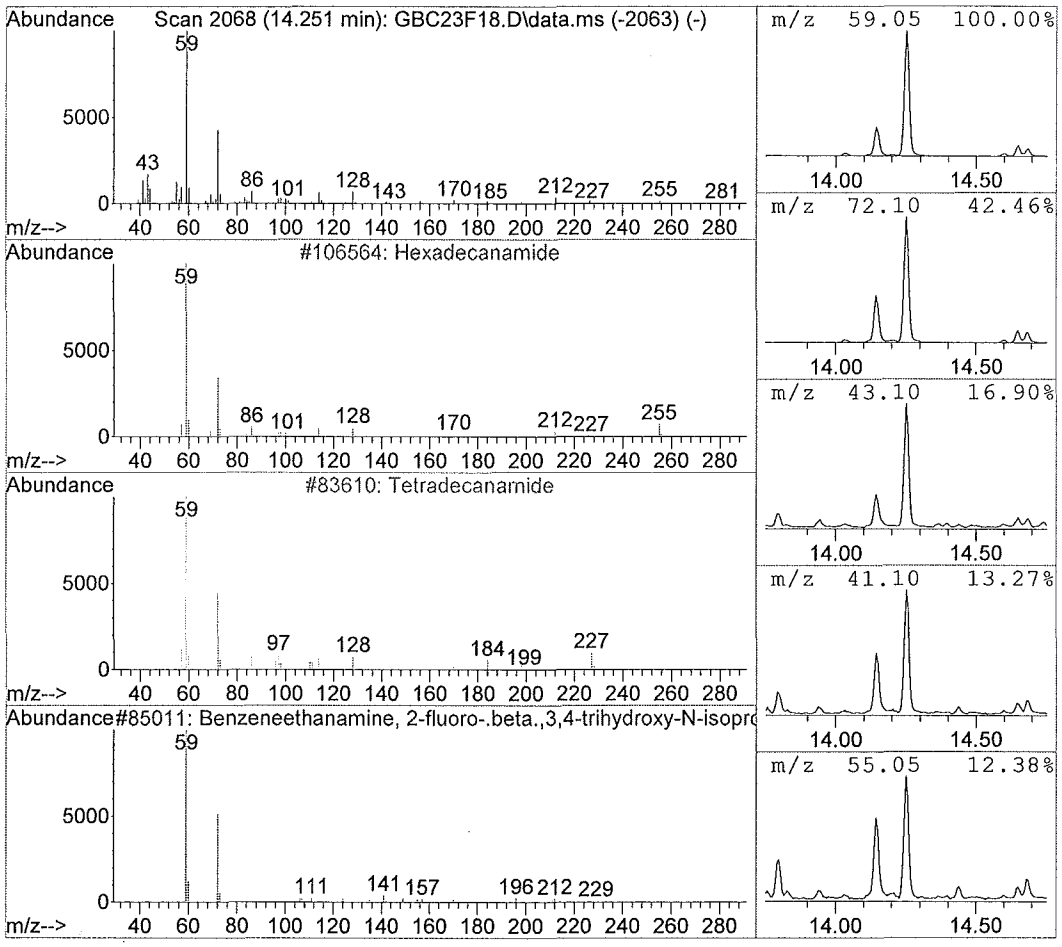
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	3.77 ug/ml	593860	Chrysene-d12	3151692

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	96.00
2	Tetradecanamide	83610	000638-58-4	91.00
3	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	72.00
4	Octanamide	20317	000629-01-6	72.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00



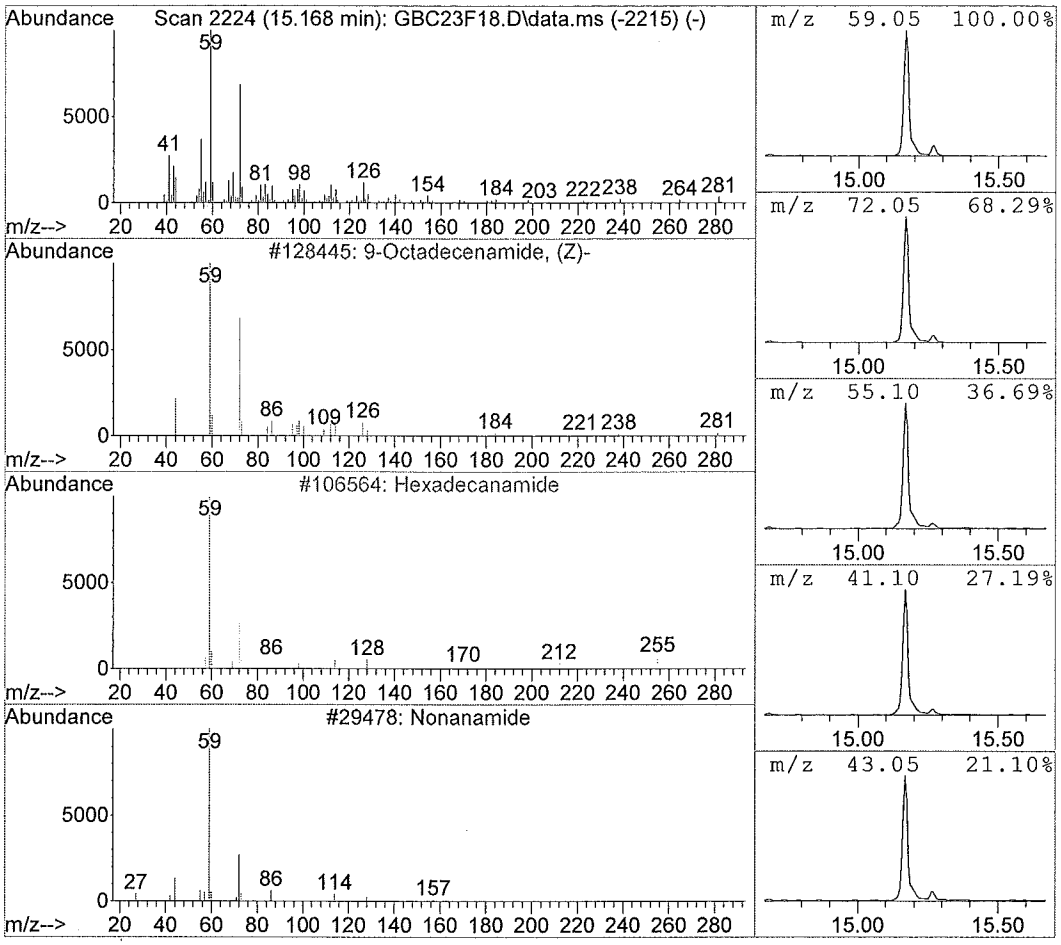
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	32.87 ug/ml	5179487	Chrysene-d12	3151692

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	Hexadecanamide	106564	000629-54-9	56.00
3	Nonanamide	29478	001120-07-6	53.00
4	Dodecanamide	60440	001120-16-7	53.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	45.00



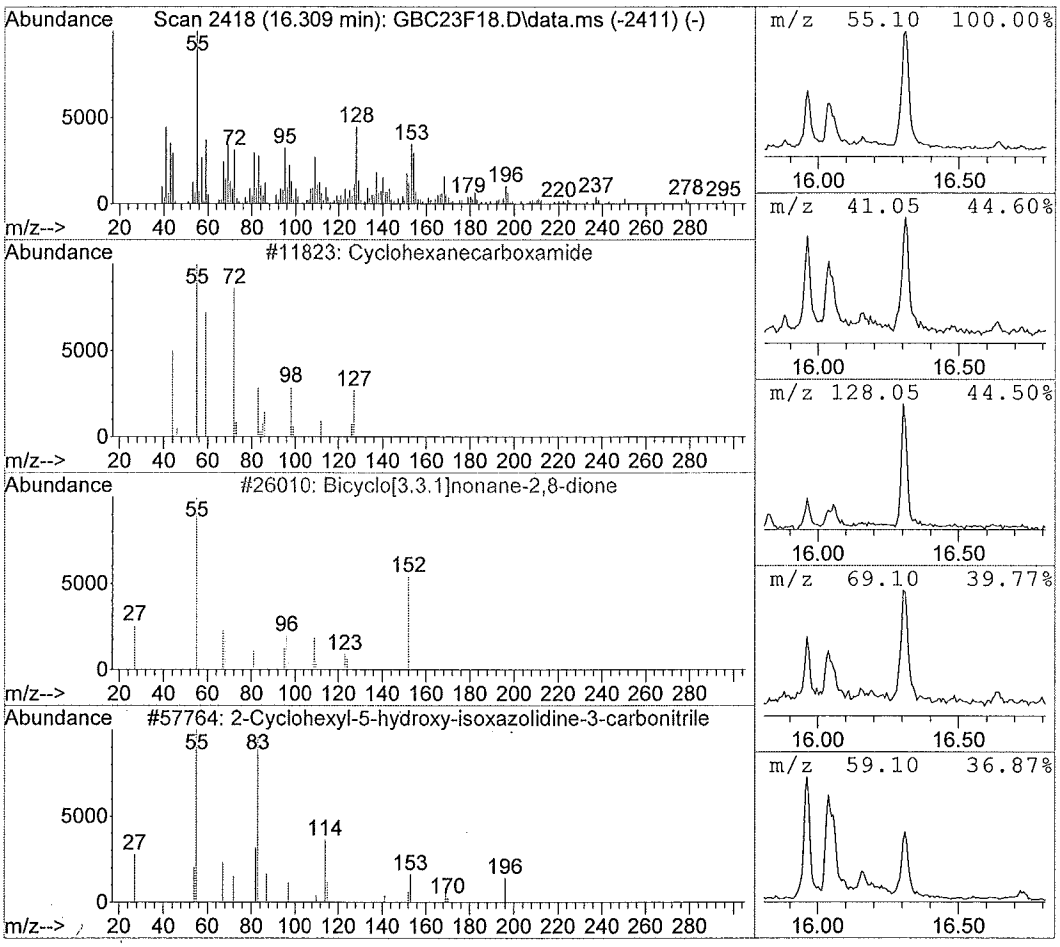
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.31	2.26 ug/ml	355443	Chrysene-d12	3151692

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexanecarboxamide	11823	001122-56-1	15.00
2	Bicyclo[3.3.1]nonane-2,8-dione	26010	160651-01-4	10.00
3	2-Cyclohexyl-5-hydroxy-isoxazolidin	57764	1000187-98-4	10.00
4	2-(4-Nitrobutyryl)cyclooctanone	94695	079630-93-6	10.00
5	N-(3-Methyl-2,5-dioxo-imidazolidin-	39190	1000287-36-8	10.00



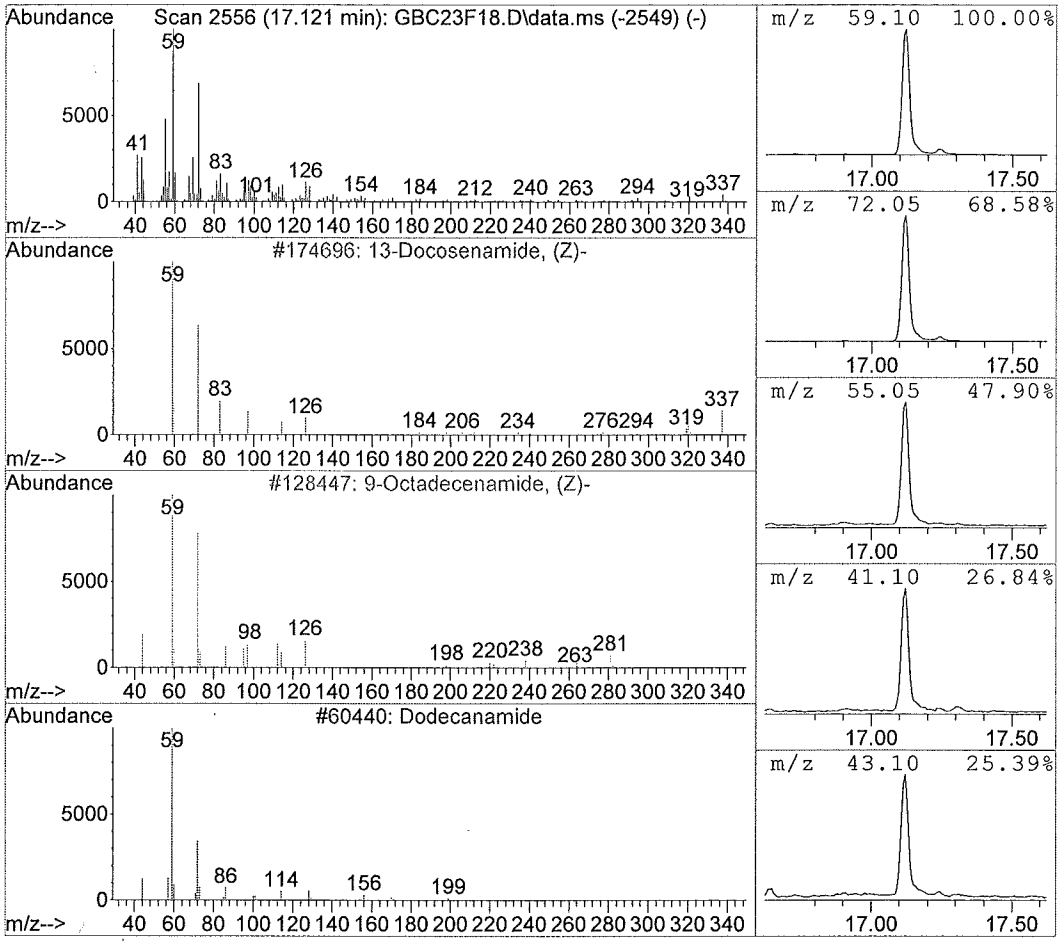
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	9.62 ug/ml	1528155	Perylene-d12	3175644

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174696	000112-84-5	95.00
2	9-Octadecenamide, (Z)-	128447	000301-02-0	93.00
3	Dodecanamide	60440	001120-16-7	50.00
4	Tetradecanamide	83608	000638-58-4	35.00
5	2-Hydroxy-2,4-dimethyl-hept-6-en-3-	29069	1000192-56-0	35.00



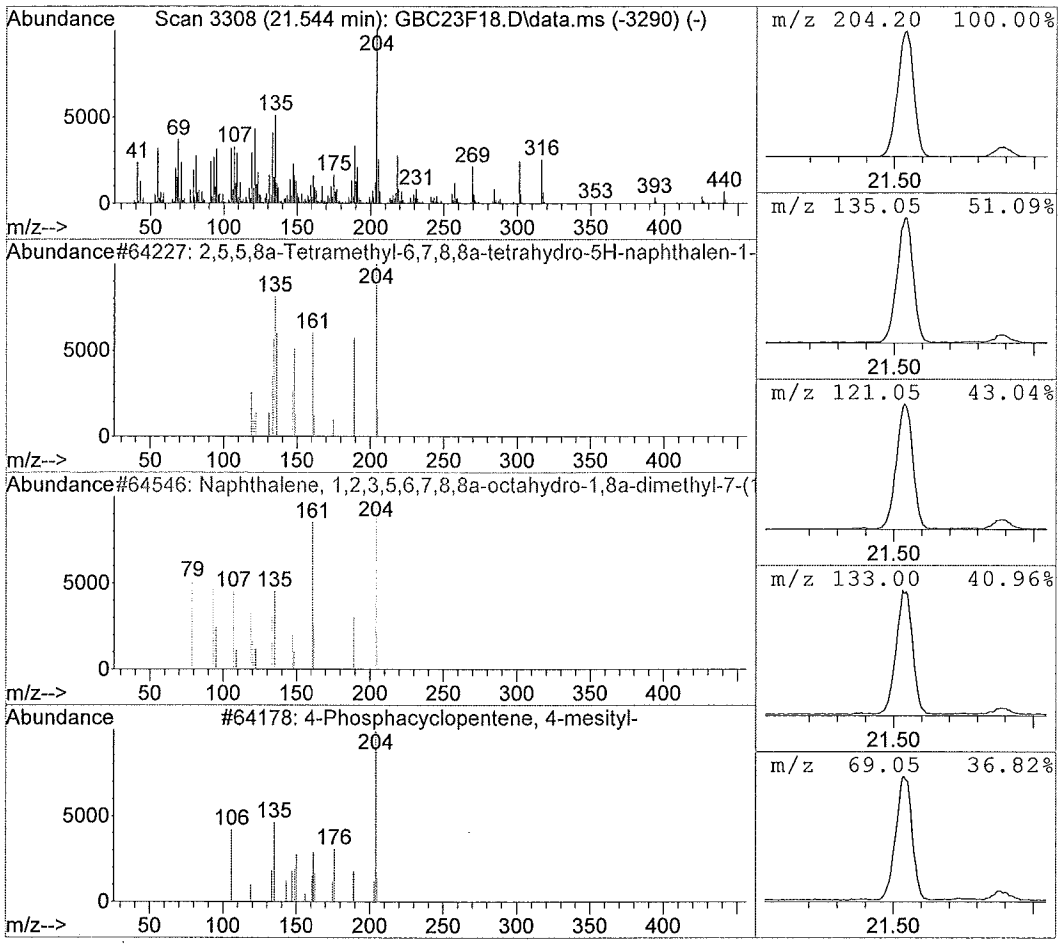
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	36.14 ug/ml	5737620	Perylene-d12	3175644

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	43.00
2	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	43.00
3	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	43.00
4	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	41.00
5	2H-Cyclopentacyclooctene, 4,5,6,7,8	64452	1000221-85-8	38.00



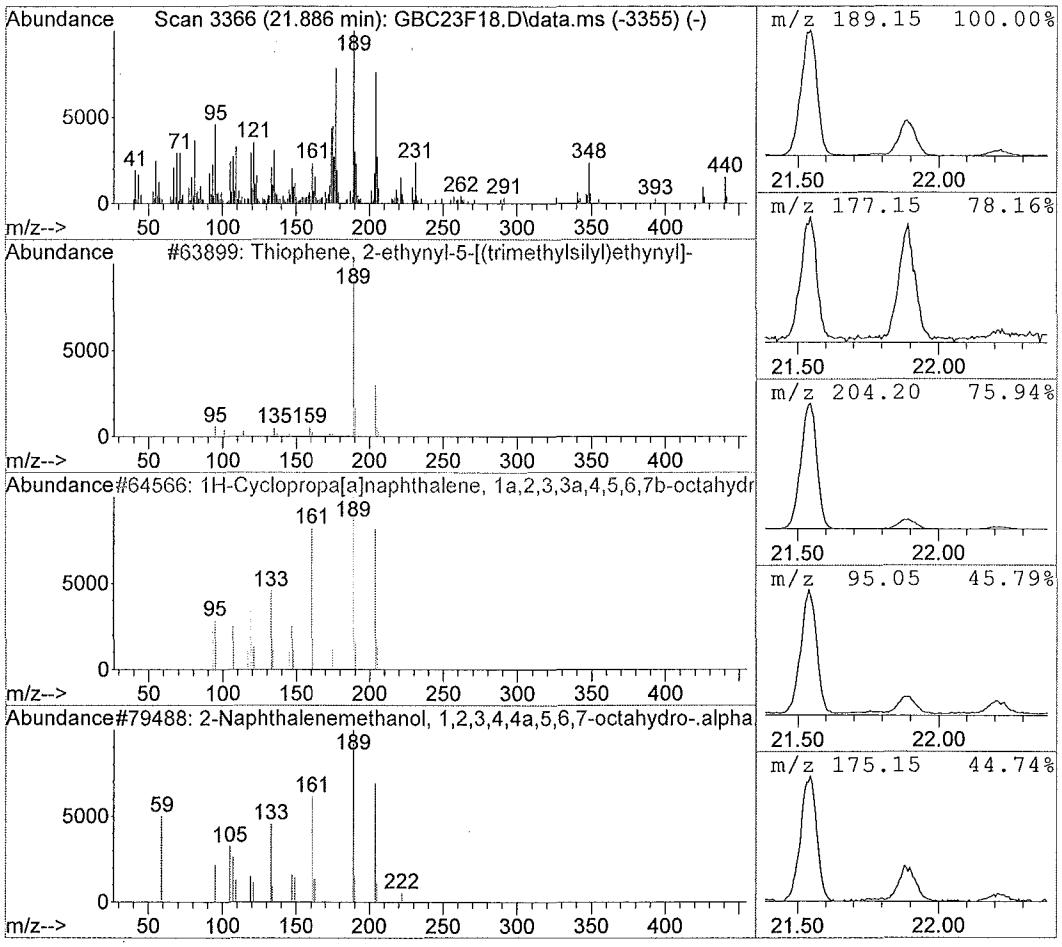
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.89	3.74 ug/ml	594533	Perylene-d12	3175644

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Thiophene, 2-ethynyl-5-[(trimethyls	63899	182323-29-1	43.00
2	1H-Cyclopropa[a]naphthalene, 1a,2,3	64566	000489-29-2	41.00
3	2-Naphthalenemethanol, 1,2,3,4,4a,5	79488	001209-71-8	41.00
4	2-Isopropenyl-4a,8-dimethyl-1,2,3,4	64441	1000192-43-5	38.00
5	3H-1,2-Dithiole-3-thione, 5-tert-bu	64748	013120-76-8	30.00



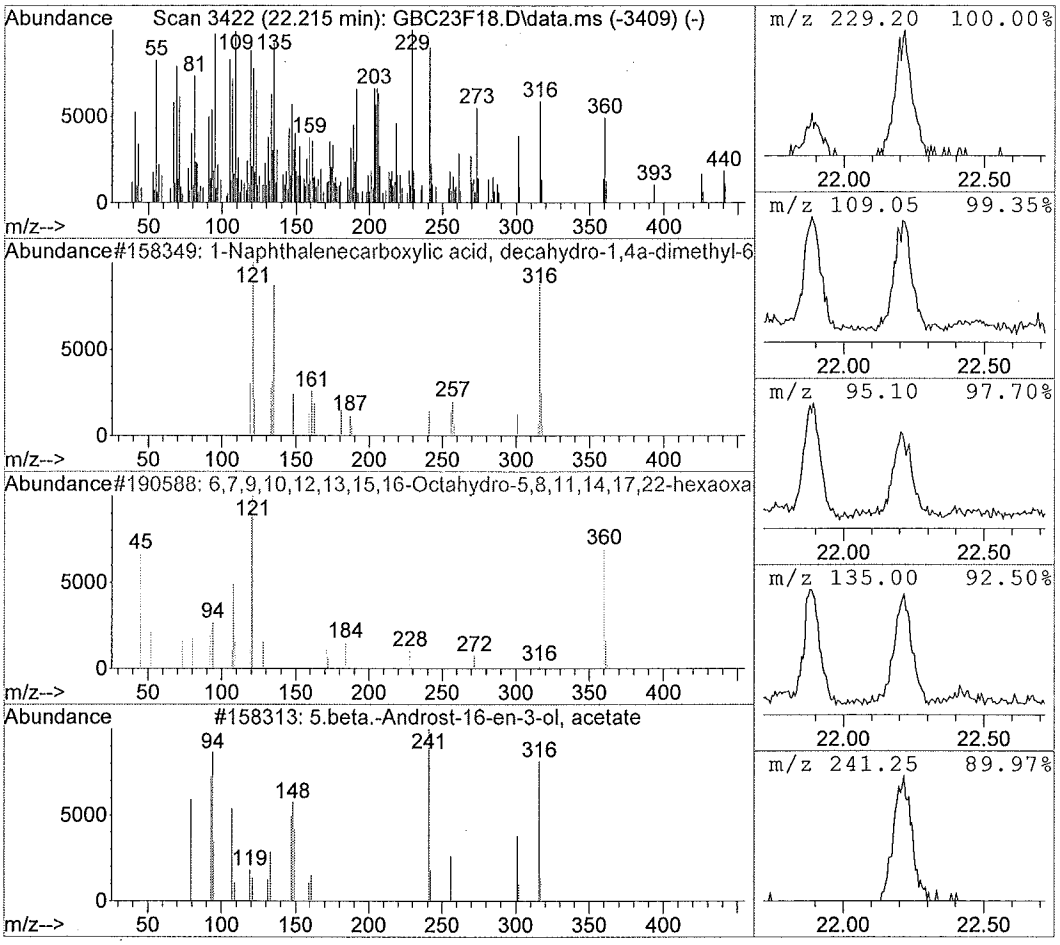
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.21	3.25 ug/ml	516081	Perylene-d12	3175644

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Naphthalenecarboxylic acid, decah	158349	001235-39-8	49.00
2	6,7,9,10,12,13,15,16-Octahydro-5,8,	190588	1000317-91-4	44.00
3	5.beta.-Androst-16-en-3-ol, acetate	158313	1000196-50-8	35.00
4	1-Phenanthrenecarboxylic acid, 7-et	158363	001686-62-0	30.00
5	3-(2-Isopropyl-5-methylphenyl)-2-me	66133	022291-56-1	25.00



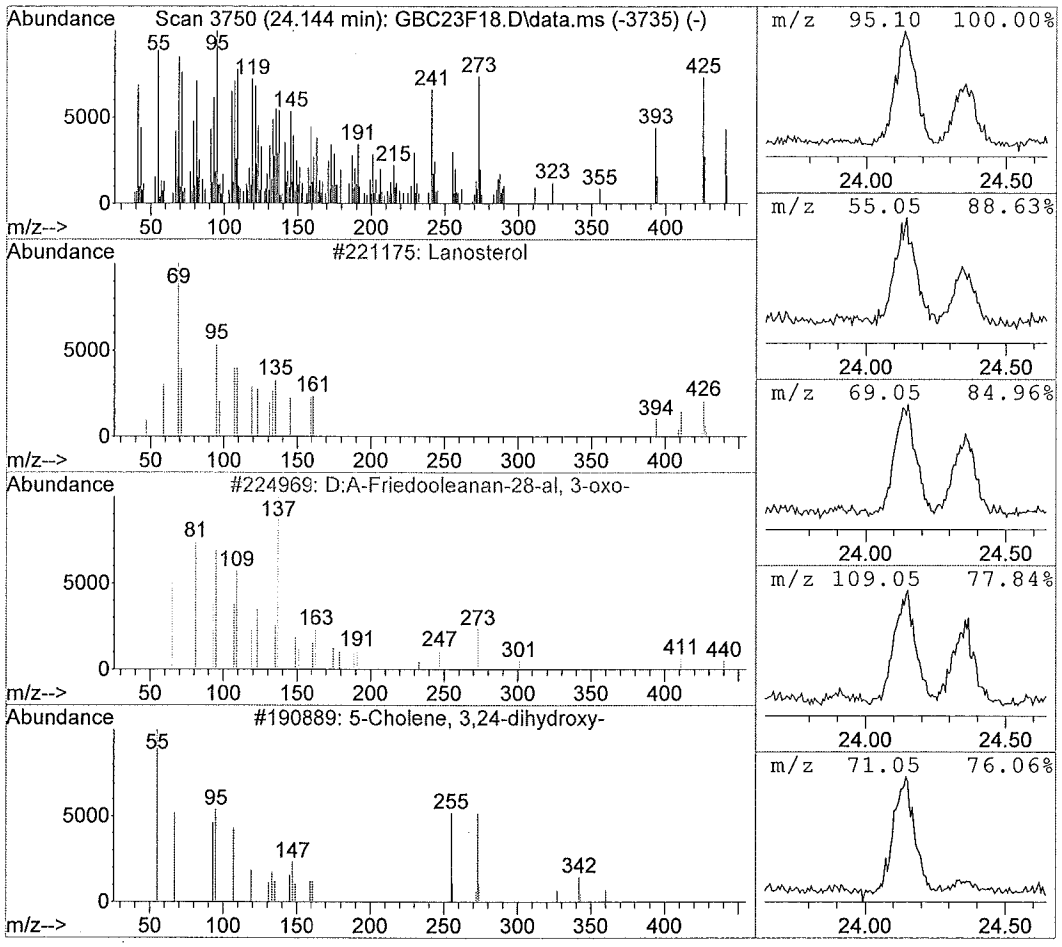
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	3.98 ug/ml	632676	Perylene-d12	3175644

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Lanosterol	221175	000079-63-0	59.00
2	D:A-Friedooleanan-28-al, 3-oxo-	224969	014440-40-5	30.00
3	5-Cholene, 3,24-dihydroxy-	190889	1000251-69-2	27.00
4	1,4-Bis-(2-furoyl)piperazine	122408	031350-27-3	25.00
5	9-Thiabicyclo[3.3.1]nonane, 2,6-bis	122462	1000141-52-1	18.00



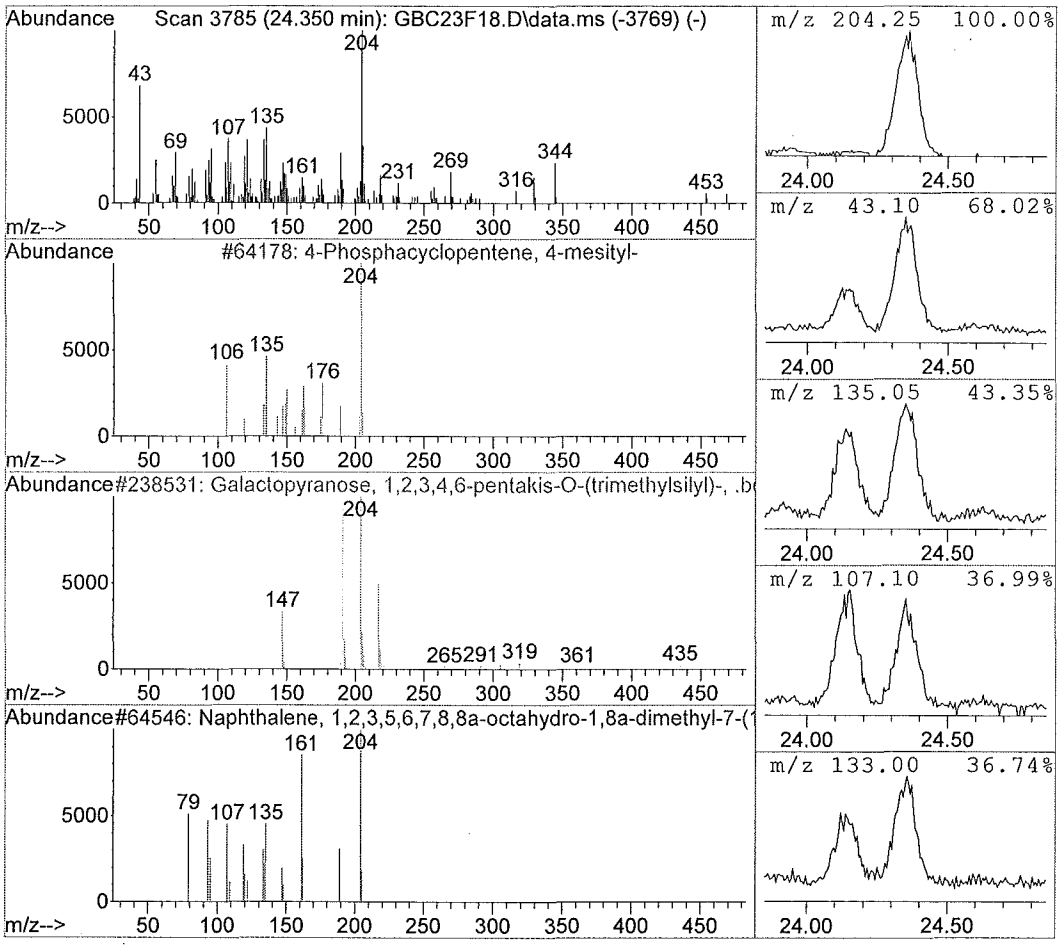
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.35	3.10 ug/ml	492335	Perylene-d12	3175644

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	58.00
2	Galactopyranose, 1,2,3,4,6-pentakis	238531	001769-00-2	53.00
3	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	53.00
4	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	52.00
5	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	43.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L75

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293019

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC24F19

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/03/2015

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	190	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L75

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293019

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC24F19

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/03/2015

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9L75

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293019

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC24F19

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/03/2015

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 2,2-dimethoxy-	2.12	380	JB
02		Unknown 2-Pentanone, 4-hydroxy-	3.38	250	J
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.60	11000	J
04		Unknown 2-(2-Methoxyethoxy)ethyl acetate	4.16	130	J
05		Unknown 3-Hexene-2,5-dione	4.36	650	JB
06	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	12.46	80.	JN
07	112-39-0	Hexadecanoic acid, methyl ester	12.53	130	JN
08	638-58-4	Tetradecanamide	12.89	82.	JN
09	52380-33-3	11-Octadecenoic acid, methyl ester	13.80	120	JN
10	629-54-9	Hexadecanamide	14.25	230	JNB
11	301-02-0	9-Octadecenamide, (Z)-	15.17	1700	JNB
12		Unknown 9-Octadecenamide, (Z)-	16.04	83.	JB
13	112-84-5	13-Docosenamide, (Z)-	17.12	380	JN
14		Unknown D-Friedoolean-14-ene, 3-methoxy-, (3.bet	21.54	1600	J
15		Unknown 1,3a-Ethano-3aH-indene, 1,2,3,6,7,7a-hex	21.90	350	J
16		Unknown 1-Phenanthrenecarboxylic acid, 7-ethenyl	22.21	110	J
17		Unknown 1,6-Dihydropyridazine-3-carboxylic acid,	24.14	97.	J
18		Unknown 1,4-Dimethyl-8-isopropylidenetricyclo[5.	24.35	90.	J
19	1058-61-3	Stigmast-4-en-3-one	24.62	130	JN
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	540	J

[2] EPA-designated Registry Number.

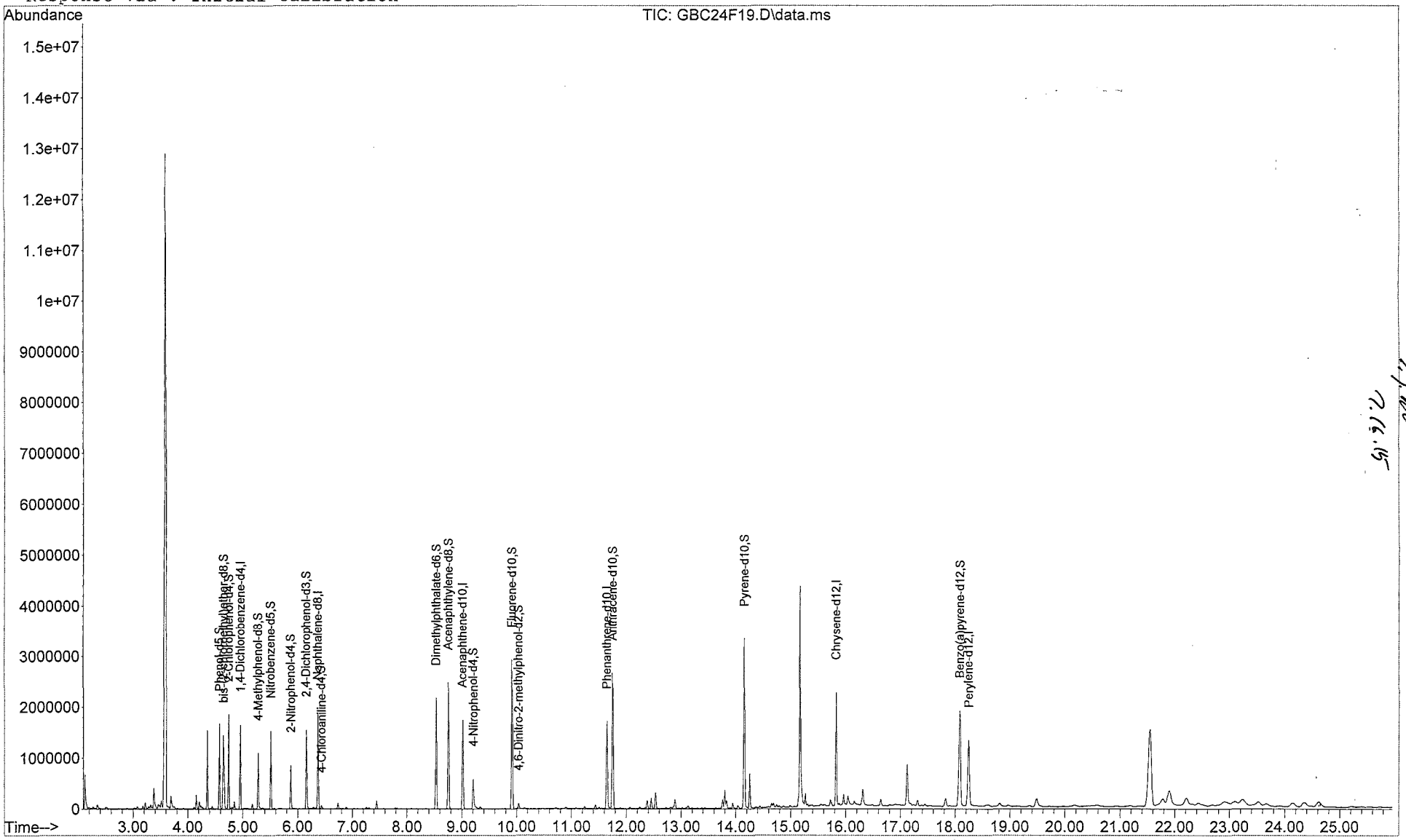
Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC24F19.D
Acq On : 06/03/2015 01:50
Sample : 1514293019 F9L75
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 20
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 14:46:55 2015 Results File: GSOM01D4.RES

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



GBC24F19.D GSOM01D4.M Thu Jul 16 08:36:21 2015 Page 3

Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:46:55 2015 Results File: GSOM01D4.RES

Method : R:\G\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	289869	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1083368	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	618008	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1016948	20.00 ug/ml
73) Chrysene-d12	15.83	240	982652	20.00 ug/ml
81) Perylene-d12	18.24	264	957185	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	618785	30.612ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	312947	25.285ug/mL
7) 2-Chlorophenol-d4	4.75	132	581251	29.287ug/ml
13) 4-Methylphenol-d8	5.28	113	272546	17.318ug/mL
17) Nitrobenzene-d5	5.51	128	280201	30.827ug/ml
21) 2-Nitrophenol-d4	5.87	143	224594	22.172ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	410676	27.675ug/mL
28) 4-Chloroaniline-d4	6.43	131	28863	1.793ug/mL
42) Dimethylphthalate-d6	8.53	166	1384030	36.824ug/mL
45) Acenaphthylene-d8	8.76	160	1626347	32.424ug/mL
50) 4-Nitrophenol-d4	9.21	143	211021	26.366ug/mL
57) Fluorene-d10	9.92	176	1166897	35.745ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	25336	3.793ug/mL
69) Anthracene-d10	11.75	188	1727181	33.575ug/mL
75) Pyrene-d10	14.16	212	1554237	34.791ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1407279	32.413ug/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 : R:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:46:55 2015 Results File: GSOM01D4.RES

Method : R:\G\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)

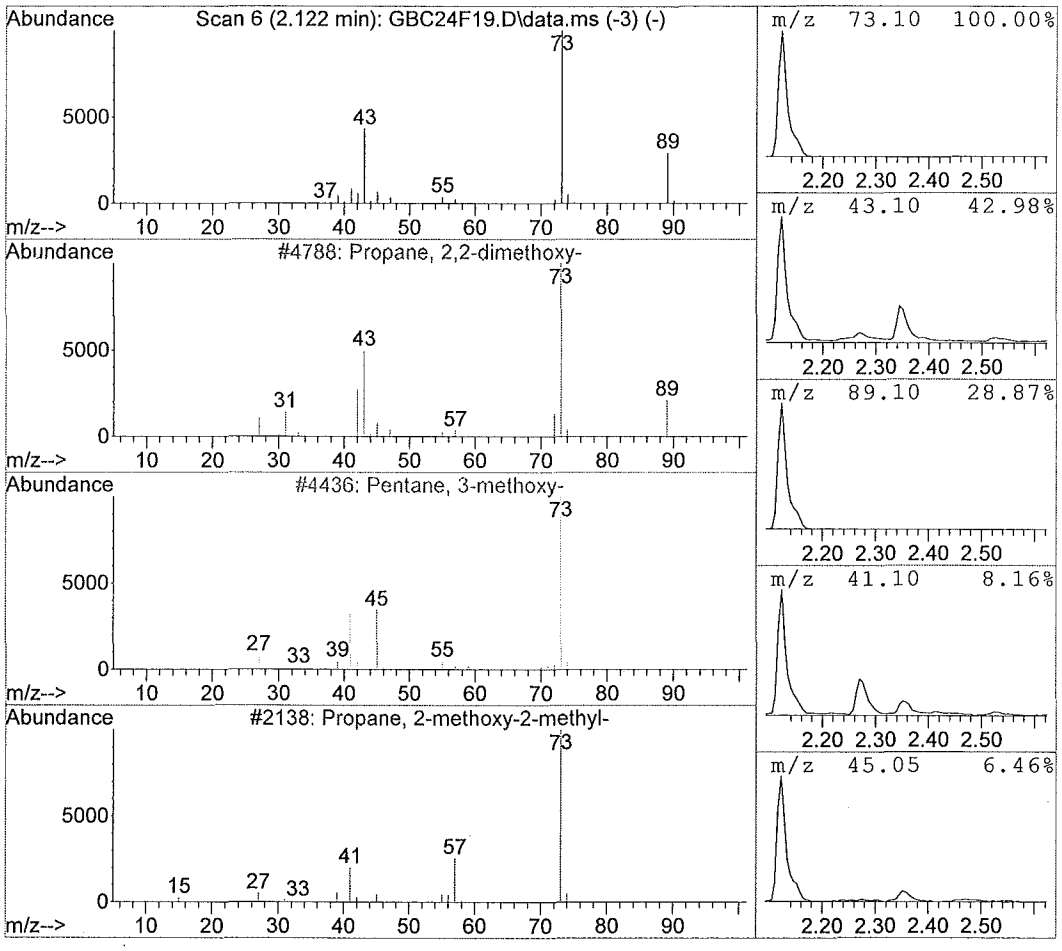
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.12	9.88 ug/ml	795806	1,4-Dichlorobenzene-d4	1610842

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 2,2-dimethoxy-	4788	000077-76-9	38.00
2	Pentane, 3-methoxy-	4436	036839-67-5	25.00
3	Propane, 2-methoxy-2-methyl-	2138	001634-04-4	9.00
4	Methane, isothiocyanato-	716	000556-61-6	7.00
5	N-Ethylformamide	734	000627-45-2	5.00



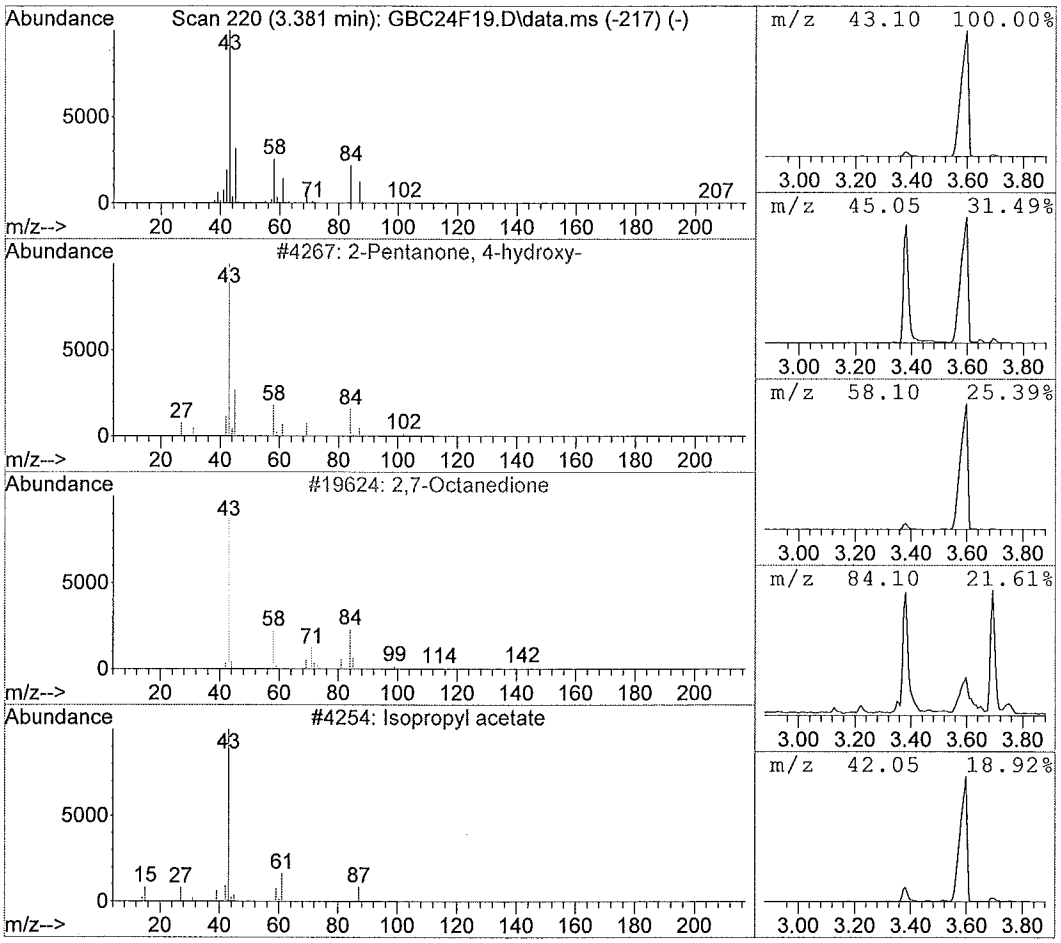
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	6.56 ug/ml	528008	1,4-Dichlorobenzene-d4	1610842

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	25.00
3	Isopropyl acetate	4254	000108-21-4	12.00
4	2-Butanone, 4-hydroxy-3-methyl-	4328	003393-64-4	9.00
5	Acetone	214	000067-64-1	9.00



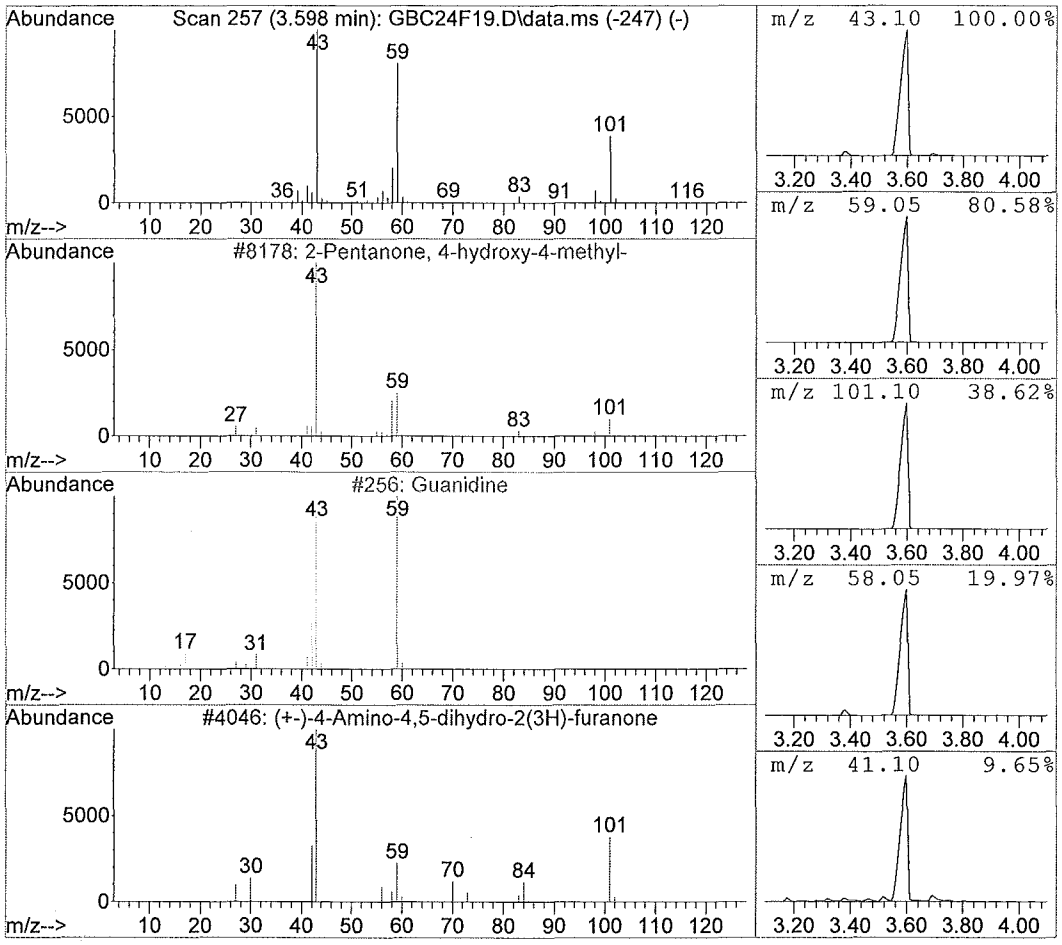
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	285.61 ug/ml	23003667	1,4-Dichlorobenzene-d4	1610842

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	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



Library Search Compound Report

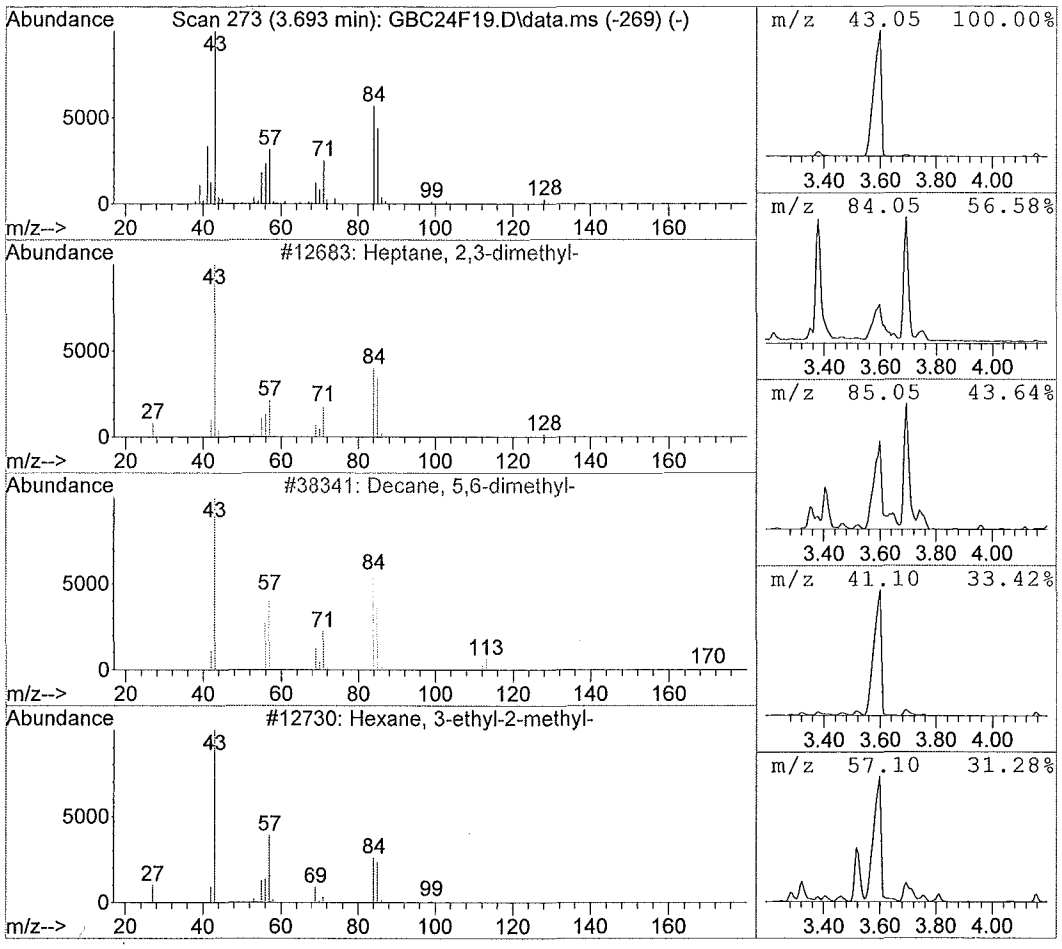
Data File : R:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.69	4.27 ug/ml	343898	1,4-Dichlorobenzene-d4	1610842

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12683	003074-71-3	87.00
2	Decane, 5,6-dimethyl-	38341	001636-43-7	64.00
3	Hexane, 3-ethyl-2-methyl-	12730	016789-46-1	64.00
4	Hexane, 2,3,5-trimethyl-	12708	001069-53-0	64.00
5	Hexane, 2,3,4-trimethyl-	12714	000921-47-1	59.00

BK



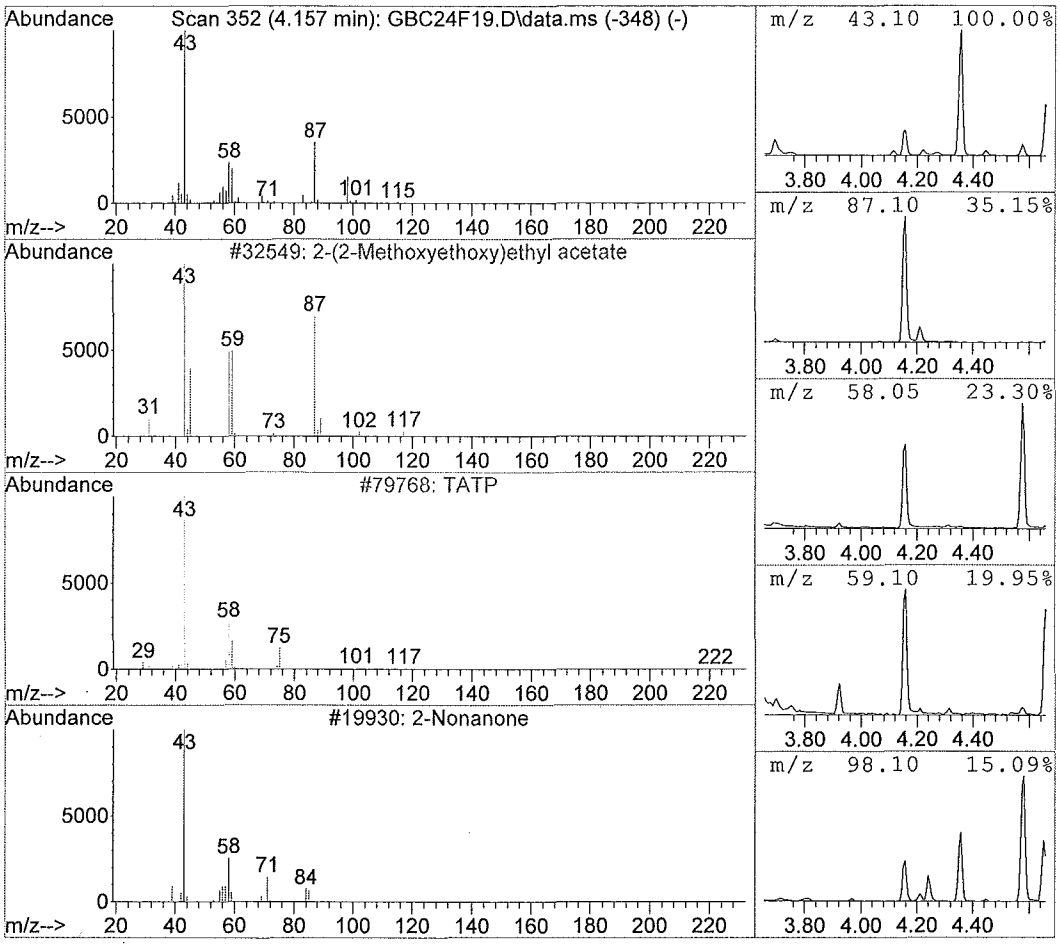
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	3.38 ug/ml	272571	1,4-Dichlorobenzene-d4	1610842

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, 4-hydroxy-5-methyl-	13495	038836-21-4	17.00



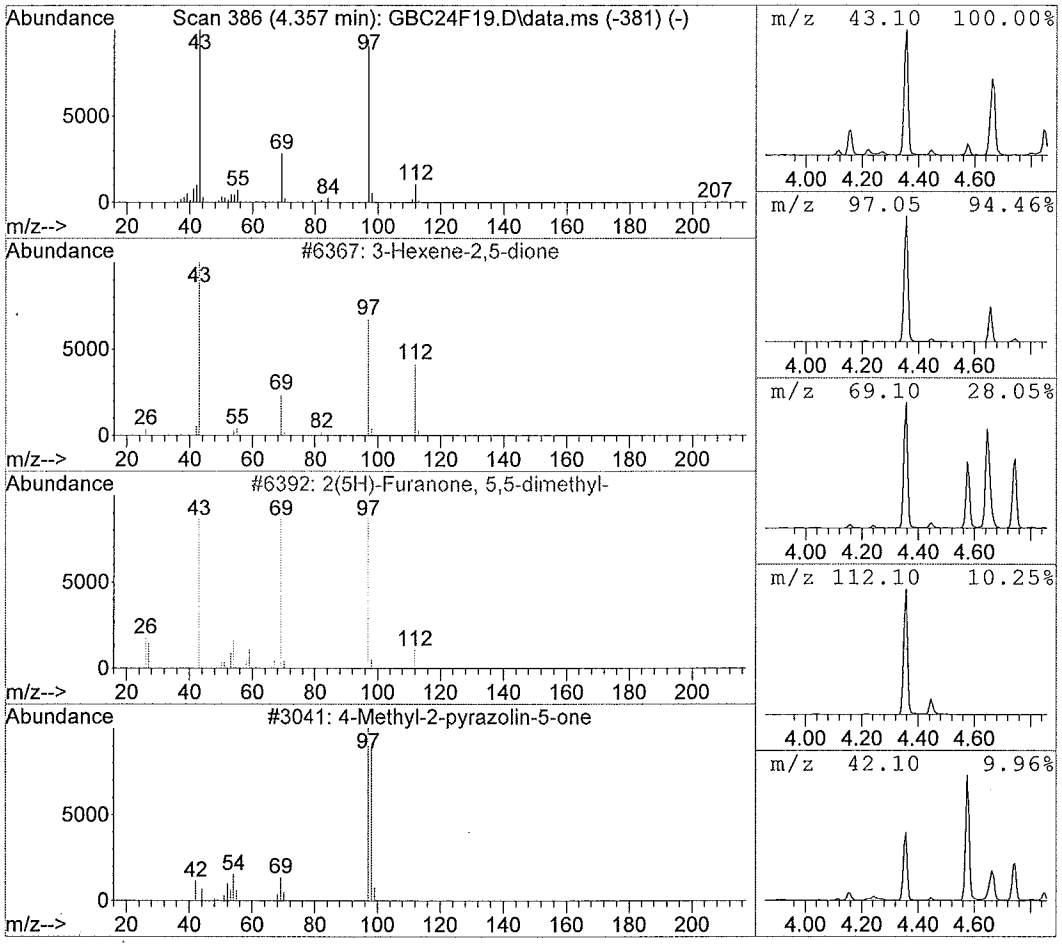
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	17.14 ug/ml	1380887	1,4-Dichlorobenzene-d4	1610842

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	4-Methyl-2-pyrazolin-5-one	3041	013315-23-6	36.00
4	5-Hexen-2-one, 5-methyl-	6529	003240-09-3	10.00
5	1-(Trimethylsilyl)-1-propyne	6337	006224-91-5	9.00



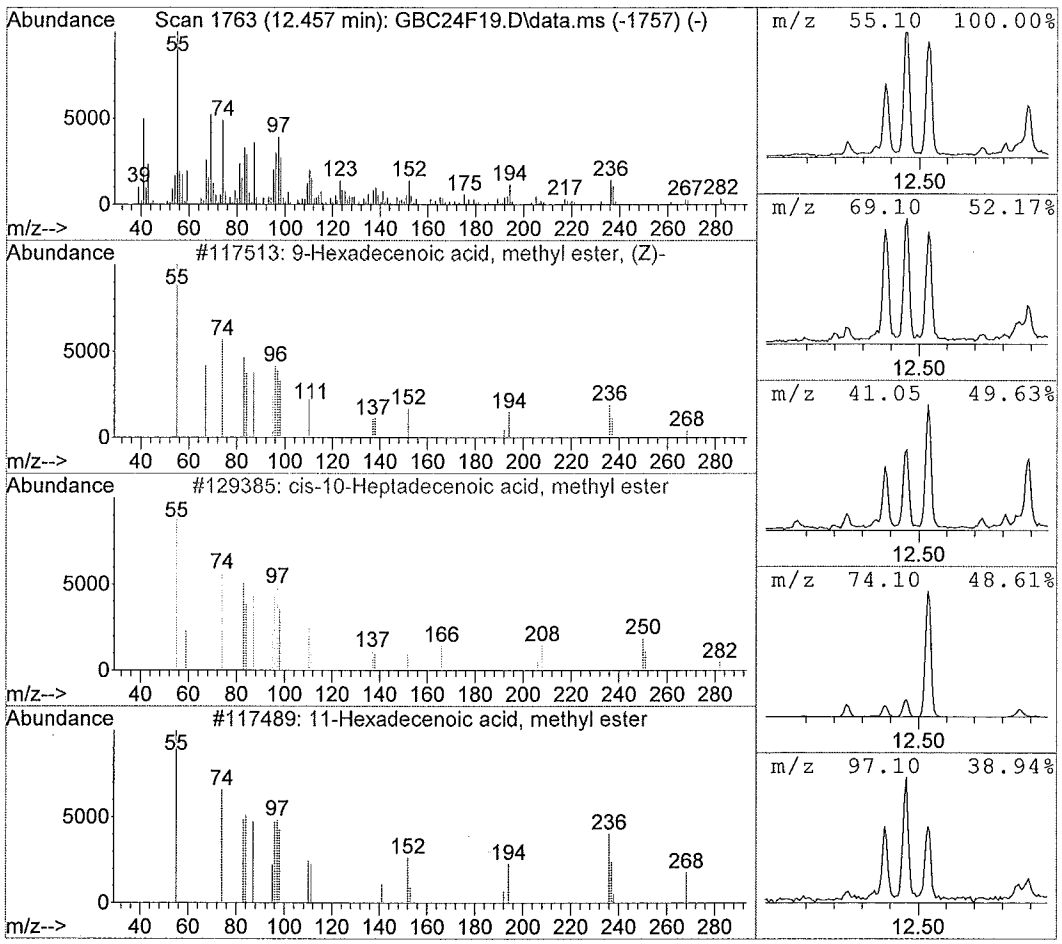
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.46	2.10 ug/ml	272774	Phenanthrene-d10	2603452

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Hexadecenoic acid, methyl ester,	117513	001120-25-8	99.00
2	cis-10-Heptadecenoic acid, methyl e	129385	1000333-62-1	95.00
3	11-Hexadecenoic acid, methyl ester	117489	055000-42-5	91.00
4	7-Hexadecenoic acid, methyl ester,	117506	056875-67-3	91.00
5	Methyl hexadec-9-enoate	117464	010030-74-7	90.00



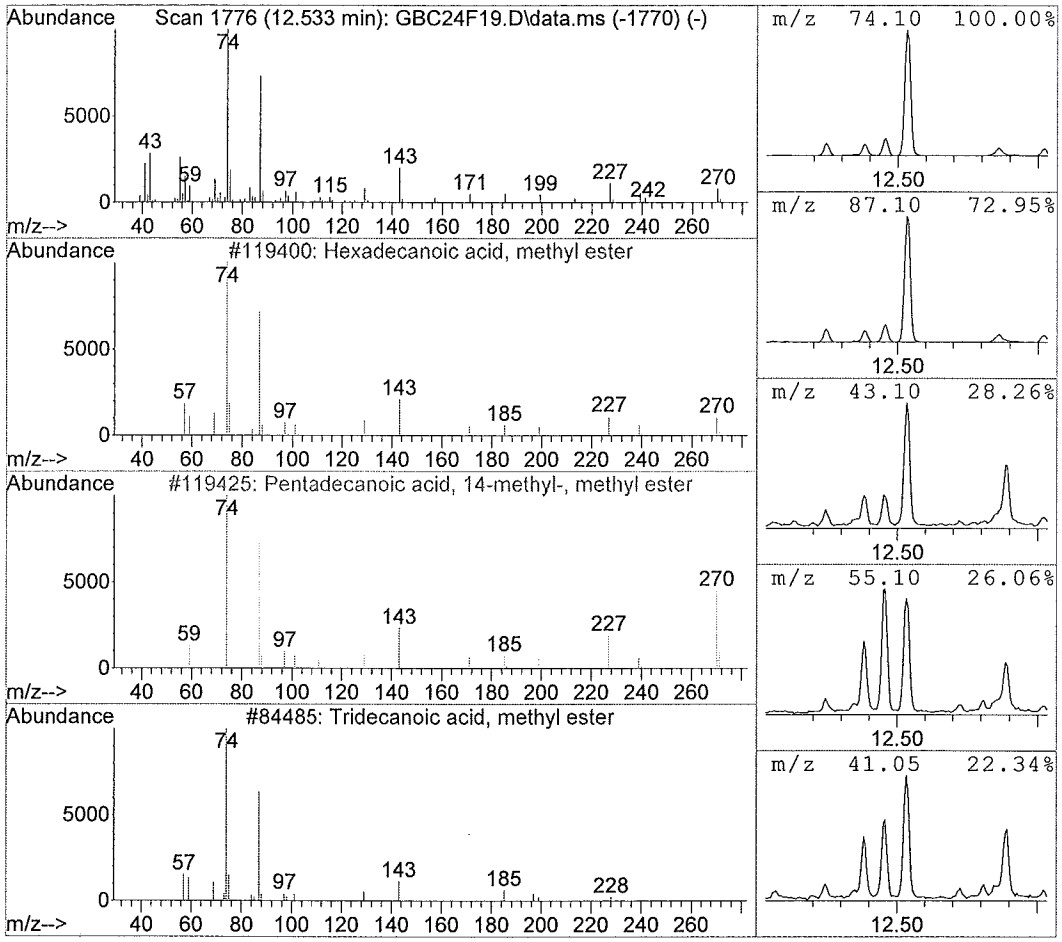
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.53	3.48 ug/ml	452630	Phenanthrene-d10	2603452

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, methyl ester	119400	000112-39-0	99.00
2	Pentadecanoic acid, 14-methyl-, met	119425	005129-60-2	96.00
3	Tridecanoic acid, methyl ester	84485	001731-88-0	86.00
4	Pentadecanoic acid, methyl ester	107593	007132-64-1	86.00
5	Hexadecanoic acid, 2-methyl-	119390	027147-71-3	83.00



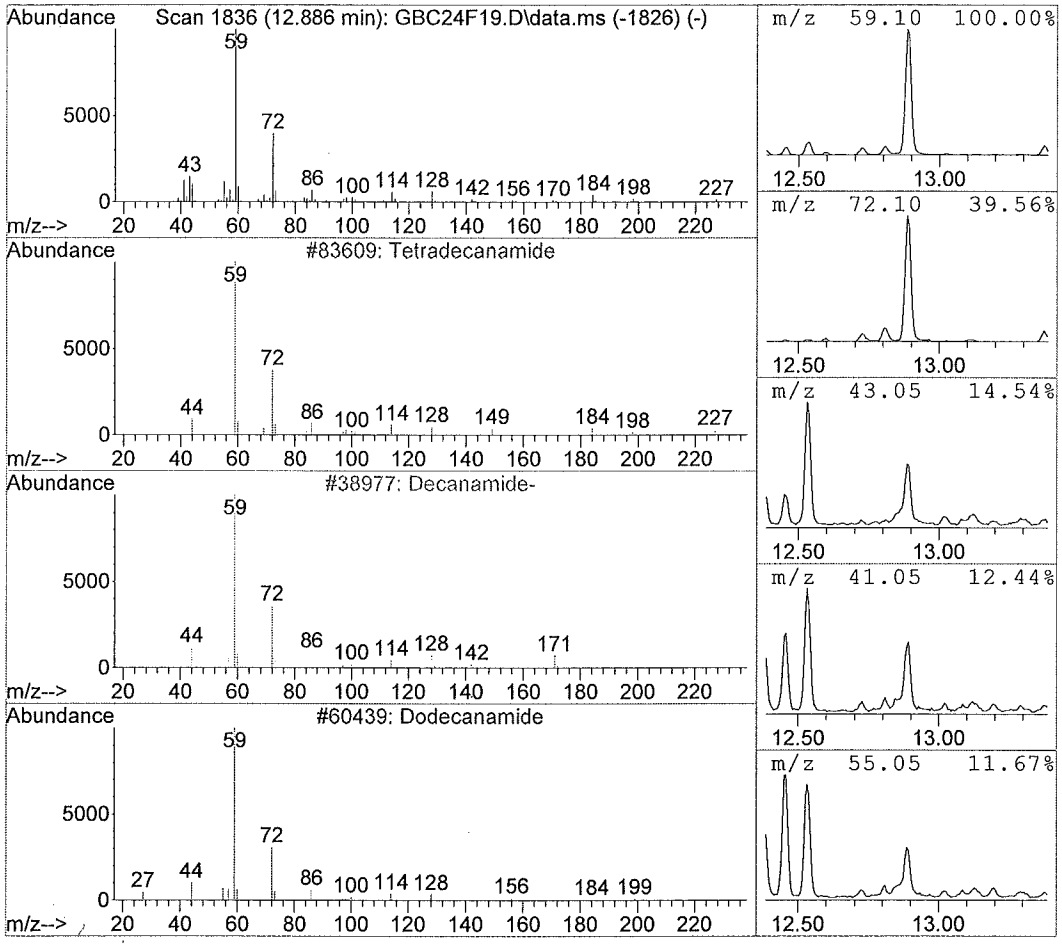
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.89	2.17 ug/ml	282582	Phenanthrene-d10	2603452

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83609	000638-58-4	94.00
2	Decanamide-	38977	002319-29-1	91.00
3	Dodecanamide	60439	001120-16-7	90.00
4	Hexadecanamide	106565	000629-54-9	87.00
5	Nonanamide	29478	001120-07-6	72.00



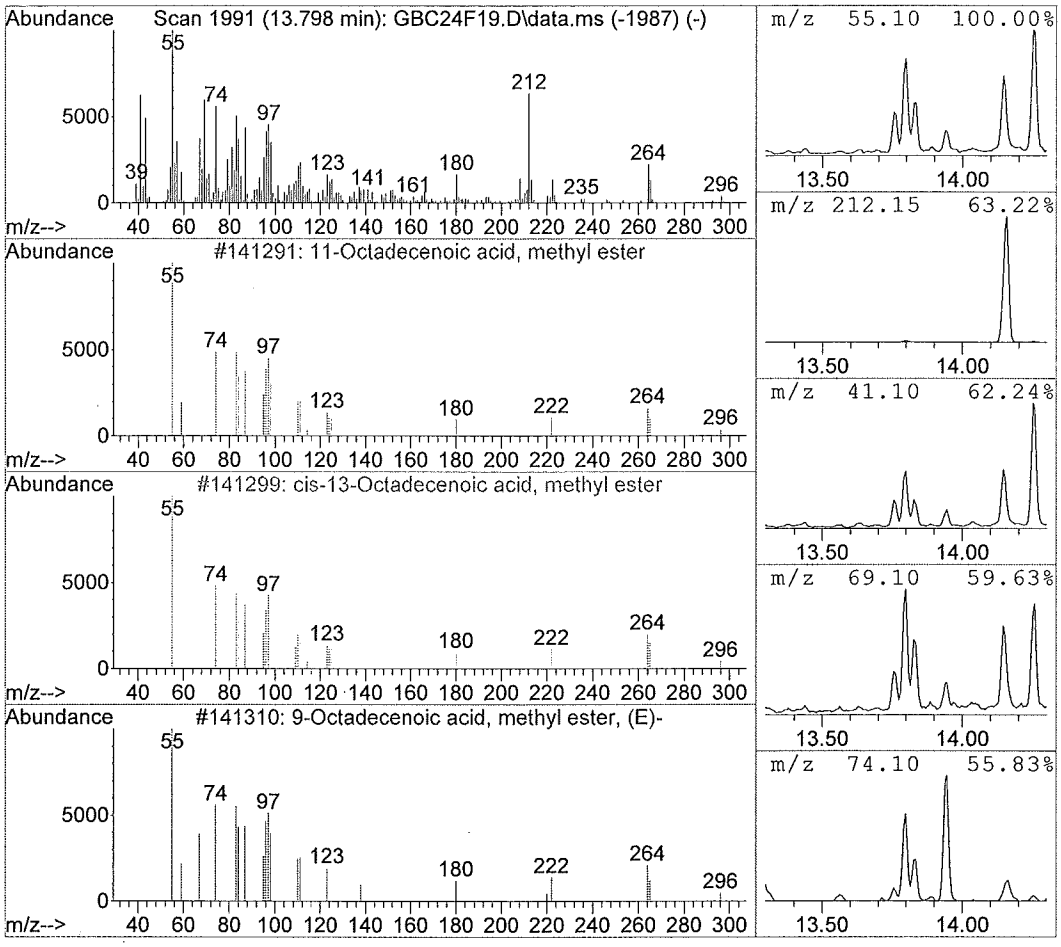
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.80	3.19 ug/ml	445724	Chrysene-d12	2793416

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	11-Octadecenoic acid, methyl ester	141291	052380-33-3	99.00
2	cis-13-Octadecenoic acid, methyl es	141299	1000333-58-3	99.00
3	9-Octadecenoic acid, methyl ester,	141310	001937-62-8	99.00
4	9-Octadecenoic acid (Z)-, methyl es	141300	000112-62-9	99.00
5	8-Octadecenoic acid, methyl ester,	141305	026528-50-7	99.00



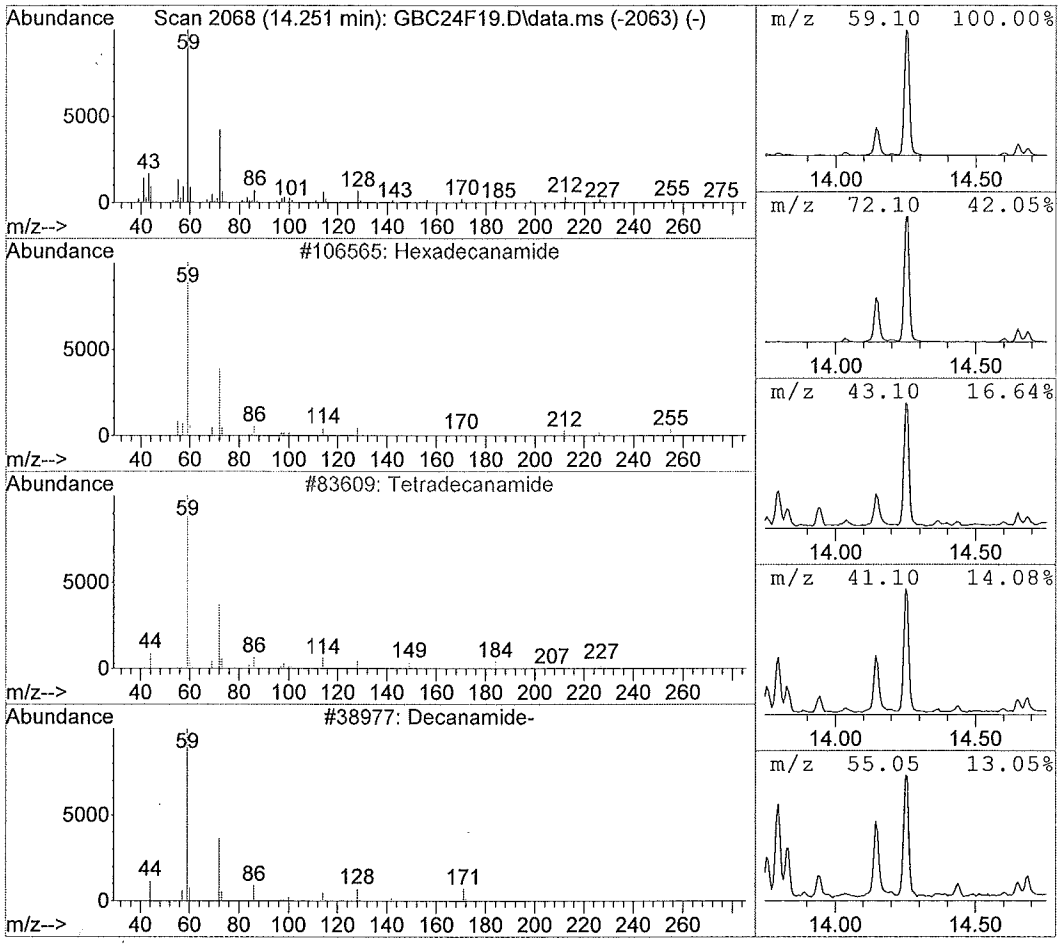
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	6.01 ug/ml	838738	Chrysene-d12	2793416

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	96.00
2	Tetradecanamide	83609	000638-58-4	90.00
3	Decanamide-	38977	002319-29-1	87.00
4	Octanamide	20317	000629-01-6	72.00
5	9-Octadecenamide, (Z)-	128445	000301-02-0	64.00



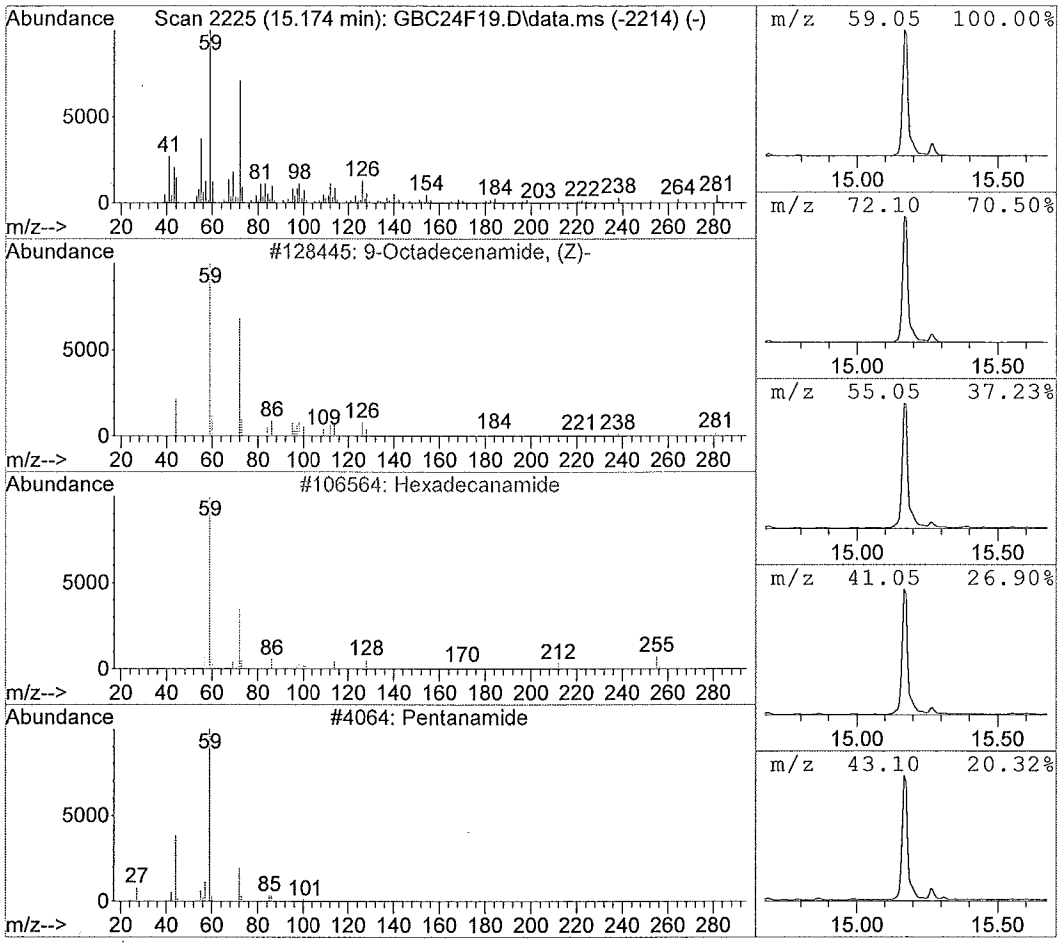
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	44.87 ug/ml	6267173	Chrysene-d12	2793416

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	98.00
2	Hexadecanamide	106564	000629-54-9	56.00
3	Pentanamide	4064	000626-97-1	53.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	53.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	50.00



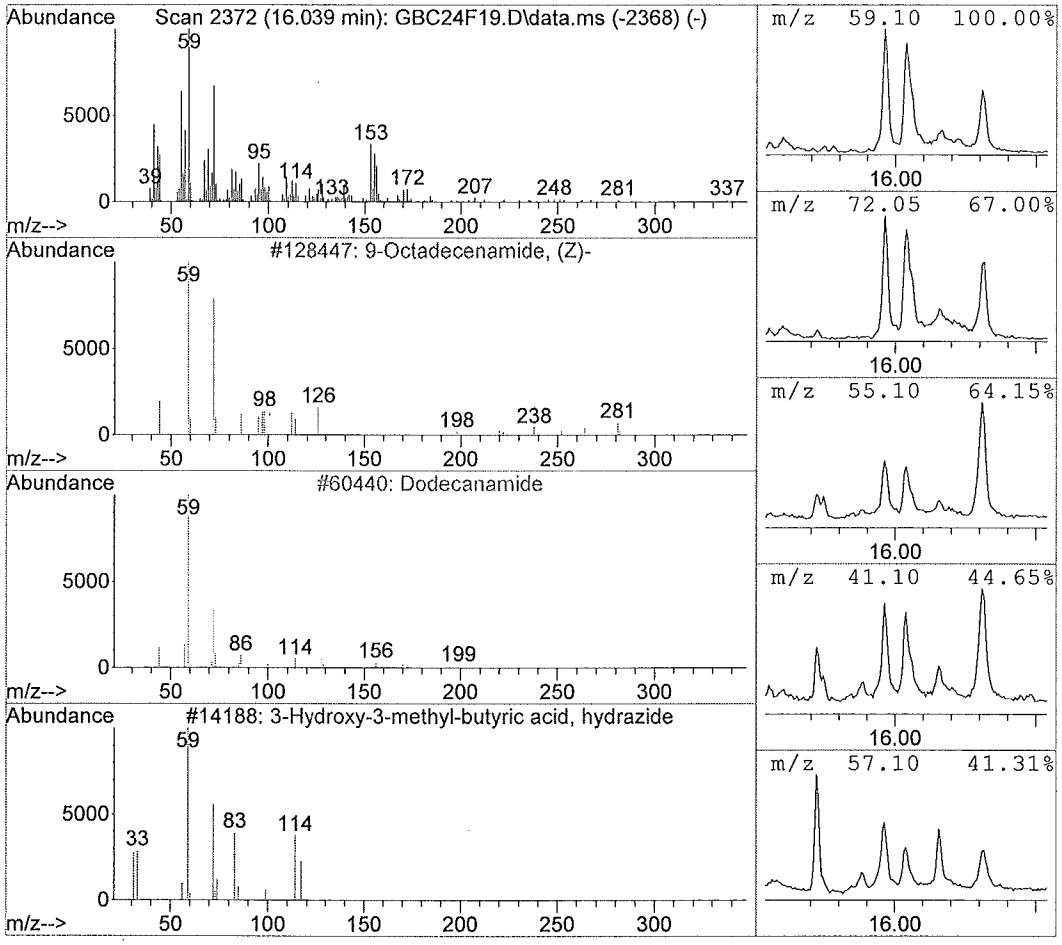
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.04	2.19 ug/ml	306434	Chrysene-d12	2793416

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128447	000301-02-0	55.00
2	Dodecanamide	60440	001120-16-7	47.00
3	3-Hydroxy-3-methyl-butyric acid, hy	14188	1000193-80-2	43.00
4	Tetradecanamide	83610	000638-58-4	43.00
5	7-Nonenamide	28131	090949-53-4	43.00



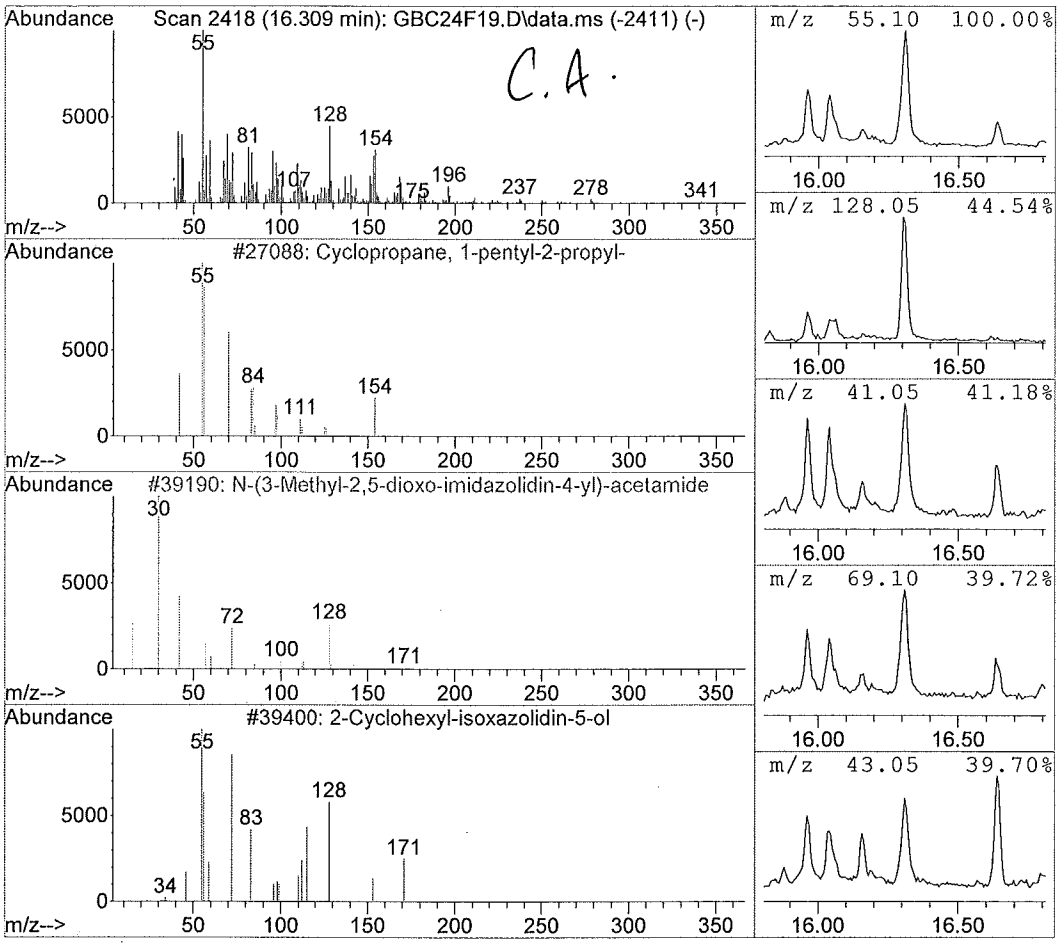
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.31	4.03 ug/ml	563185	Chrysene-d12	2793416

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclopropane, 1-pentyl-2-propyl-	27088	041977-33-7	25.00
2	N-(3-Methyl-2,5-dioxo-imidazolidin-	39190	1000287-36-8	18.00
3	2-Cyclohexyl-isoxazolidin-5-ol	39400	052400-49-4	12.00
4	5-Undecene	27019	004941-53-1	11.00
5	Cyclododecanone, 2-methyl-	58195	016837-94-8	11.00



00459

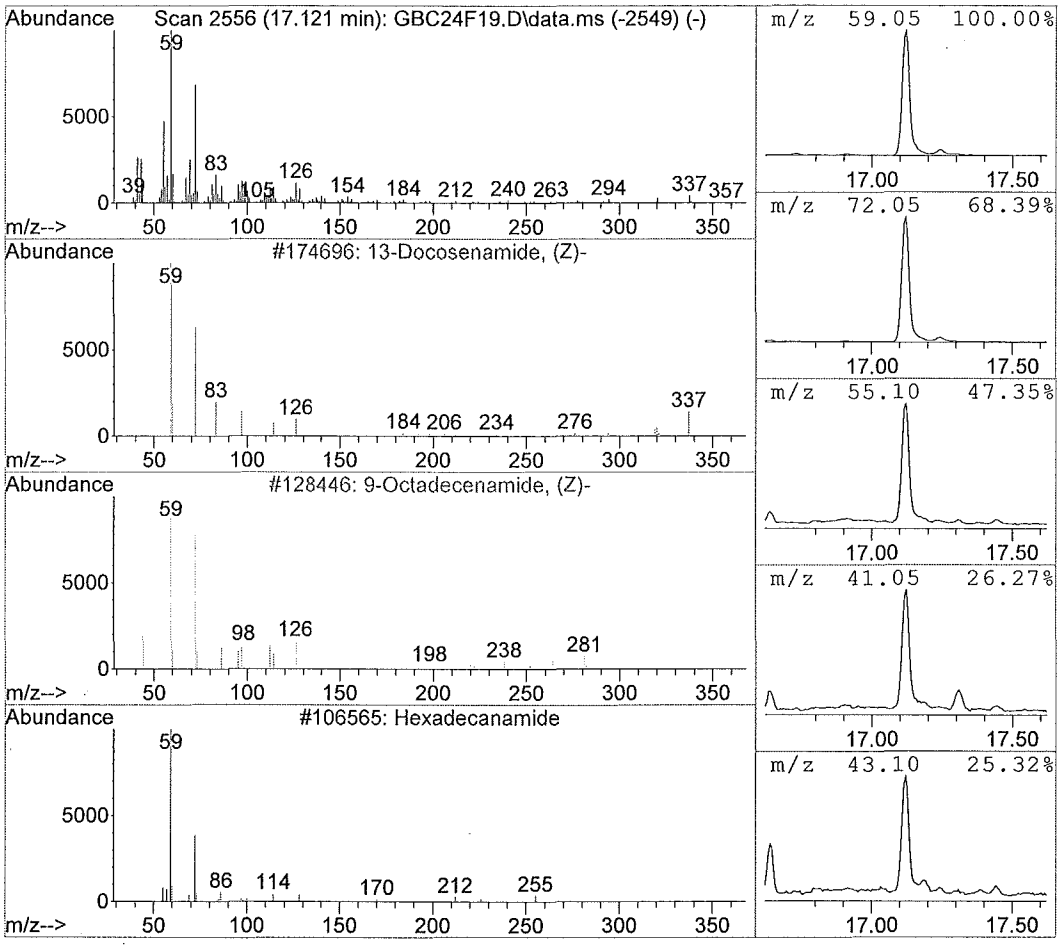
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	10.12 ug/ml	1447818	Perylene-d12	2861670

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174696	000112-84-5	93.00
2	9-Octadecenamide, (Z)-	128446	000301-02-0	70.00
3	Hexadecanamide	106565	000629-54-9	59.00
4	Tetradecanamide	83610	000638-58-4	53.00
5	2-Hydroxy-2,4-dimethyl-hept-6-en-3-	29069	1000192-56-0	35.00



Library Search Compound Report

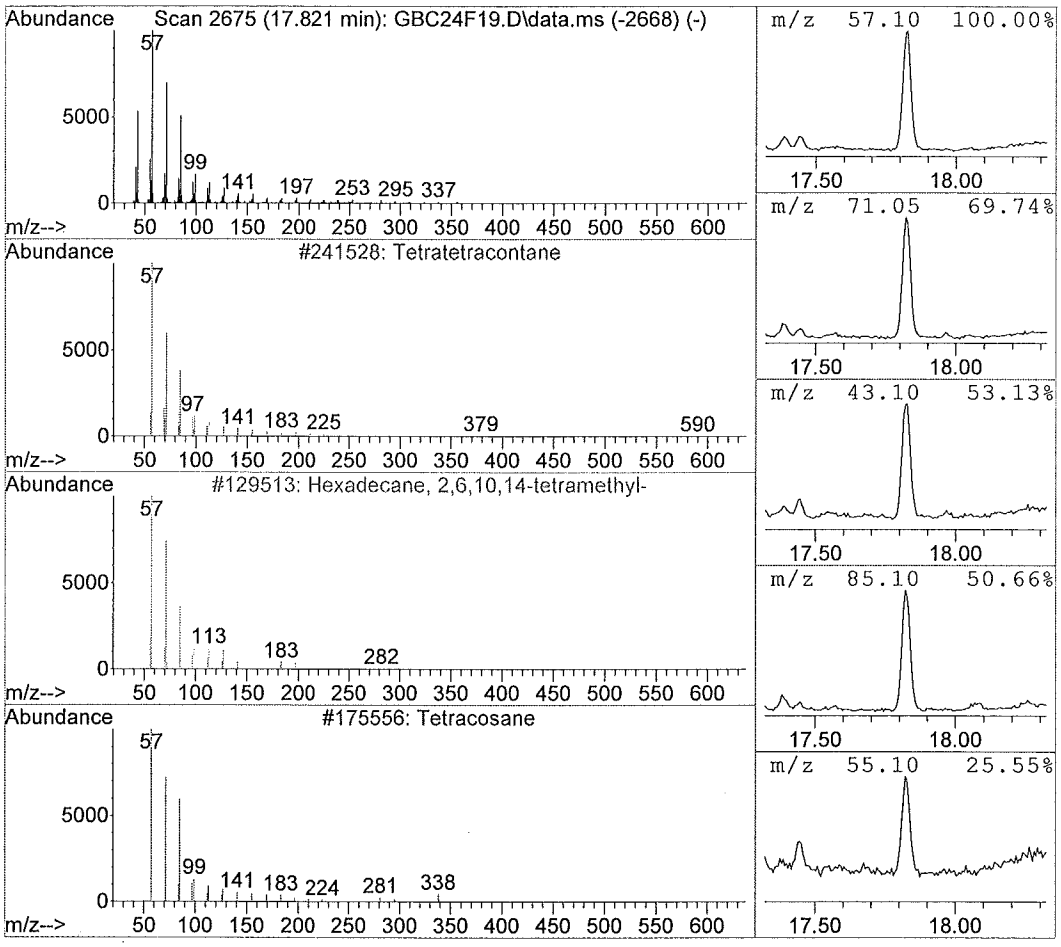
Data File : R:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.82	2.25 ug/ml	321983	Perylene-d12	2861670

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetratetracontane	241528	007098-22-8	93.00
2	Hexadecane, 2,6,10,14-tetramethyl-	129513	000638-36-8	92.00
3	Tetracosane	175556	000646-31-1	91.00
4	Hexacosane	194493	000630-01-3	90.00
5	2-methyloctacosane	215181	1000376-72-8	90.00

SCA



00461

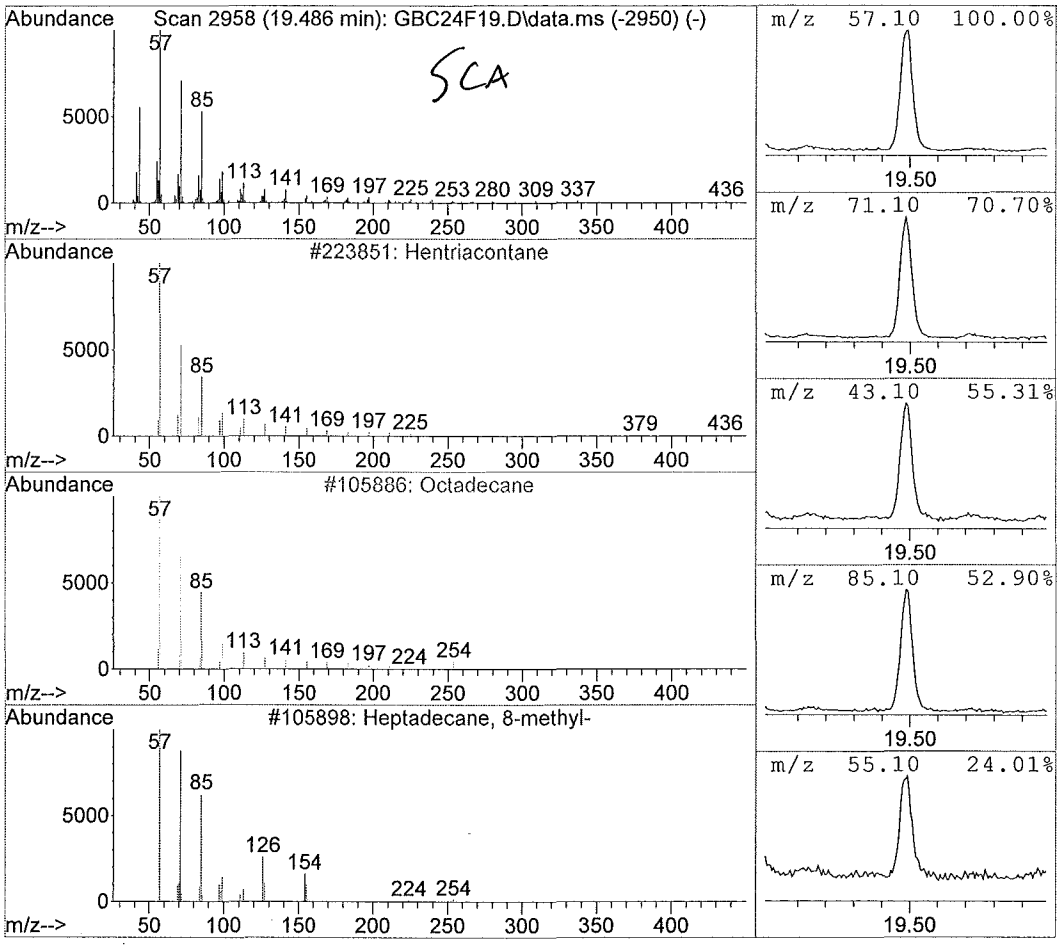
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.49	3.71 ug/ml	531179	Perylene-d12	2861670

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hentriacontane	223851	000630-04-6	98.00
2	Octadecane	105886	000593-45-3	96.00
3	Heptadecane, 8-methyl-	105898	013287-23-5	93.00
4	Tetracosane	175558	000646-31-1	91.00
5	Heptacosane	202661	000593-49-7	90.00



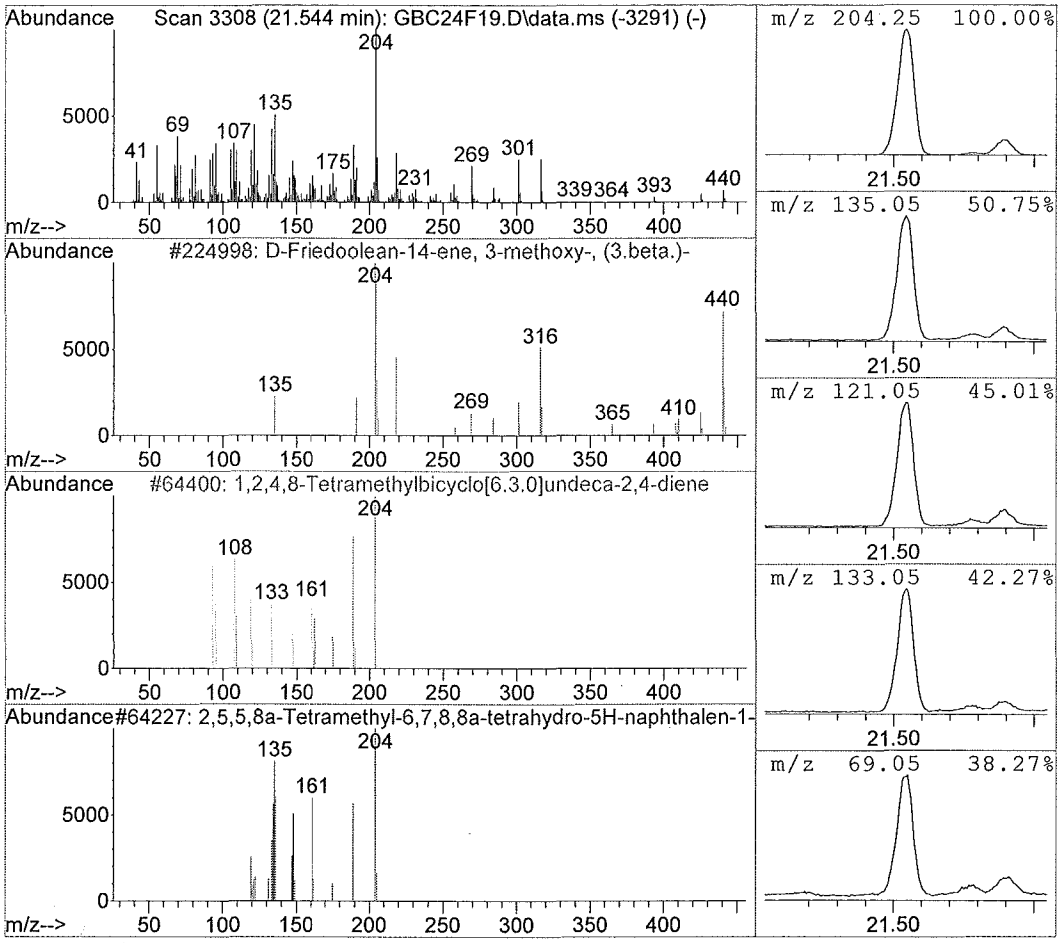
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	43.03 ug/ml	6157069	Perylene-d12	2861670

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	D-Friedoolean-14-ene, 3-methoxy-, (	224998	014021-23-9	66.00
2	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	46.00
3	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	45.00
4	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	43.00
5	1,1,4a-Trimethyl-5,6-dimethylenedec	64407	1000193-60-8	41.00



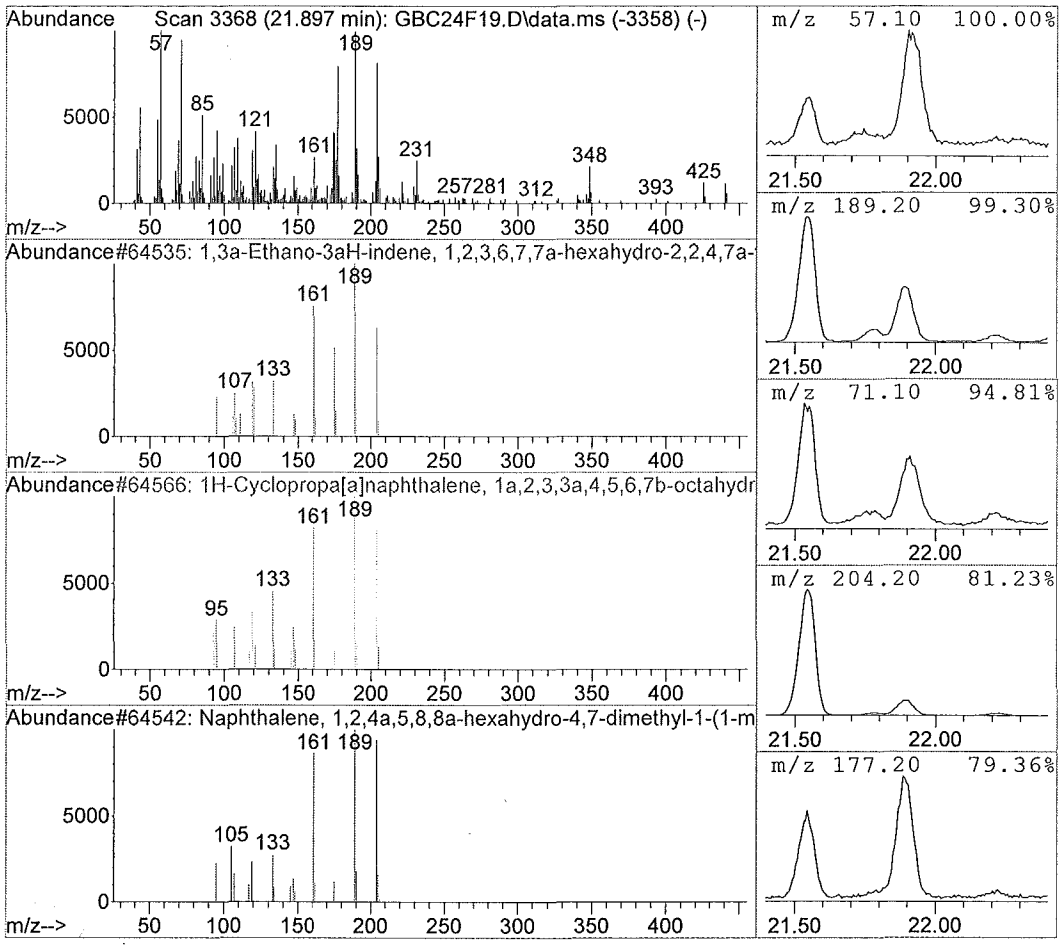
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	9.13 ug/ml	1306689	Perylene-d12	2861670

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3a-Ethano-3aH-indene, 1,2,3,6,7,7	64535	004545-68-0	70.00
2	1H-Cyclopropa[a]naphthalene, 1a,2,3	64566	000489-29-2	30.00
3	Naphthalene, 1,2,4a,5,8,8a-hexahydr	64542	005951-61-1	30.00
4	2-Acetyl-3,5-dimethylbenzo(b)thioph	63987	006179-05-1	25.00
5	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	25.00



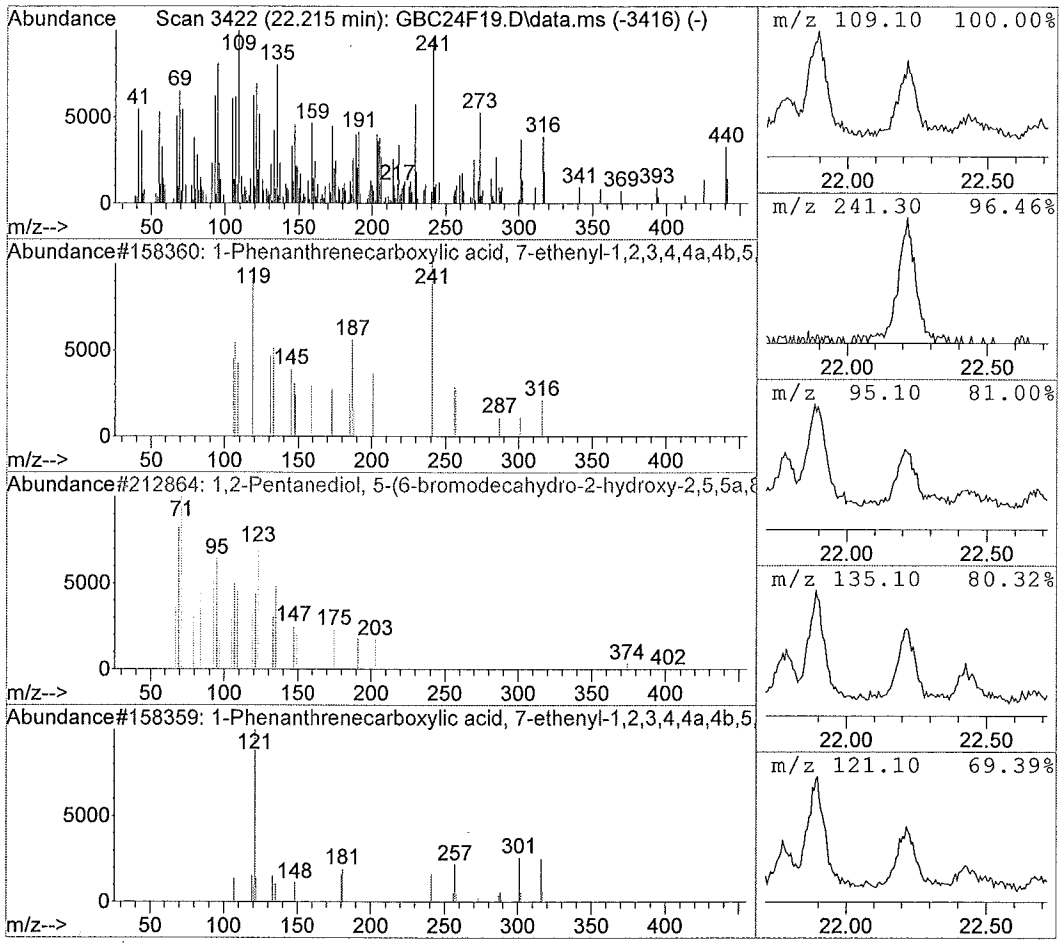
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.21	2.94 ug/ml	421236	Perylene-d12	2861670

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Phenanthrenecarboxylic acid, 7-et	158360	001686-62-0	22.00
2	1,2-Pentanediol, 5-(6-bromodecahydr	212864	115346-29-7	16.00
3	1-Phenanthrenecarboxylic acid, 7-et	158359	001686-54-0	15.00
4	9,19-Cyclolanost-25-en-3-ol, 24-met	225002	000511-61-5	14.00
5	4-Methoxy-N-[2-(2-methyl-5-trifluor	208444	1000275-57-9	12.00



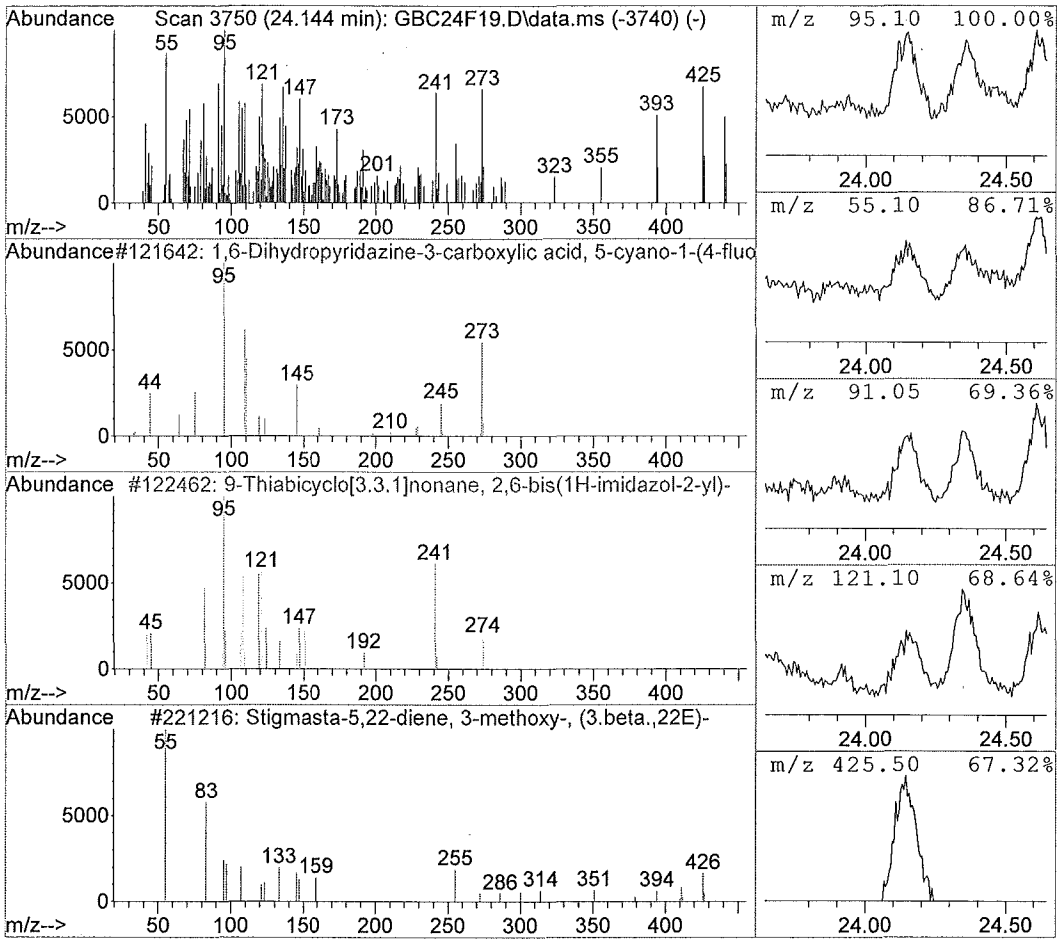
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	2.57 ug/ml	367240	Perylene-d12	2861670

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,6-Dihydropyridazine-3-carboxylic	121642	1000304-05-0	22.00
2	9-Thiabicyclo[3.3.1]nonane, 2,6-bis	122462	1000141-52-1	20.00
3	Stigmasta-5,22-diene, 3-methoxy-, (	221216	010453-25-5	15.00
4	Lanost-9(11)-en-12-one	221197	052474-76-7	11.00
5	Pentatriaconta-2-one, 26,27-bis(thi	241037	1000111-39-6	10.00



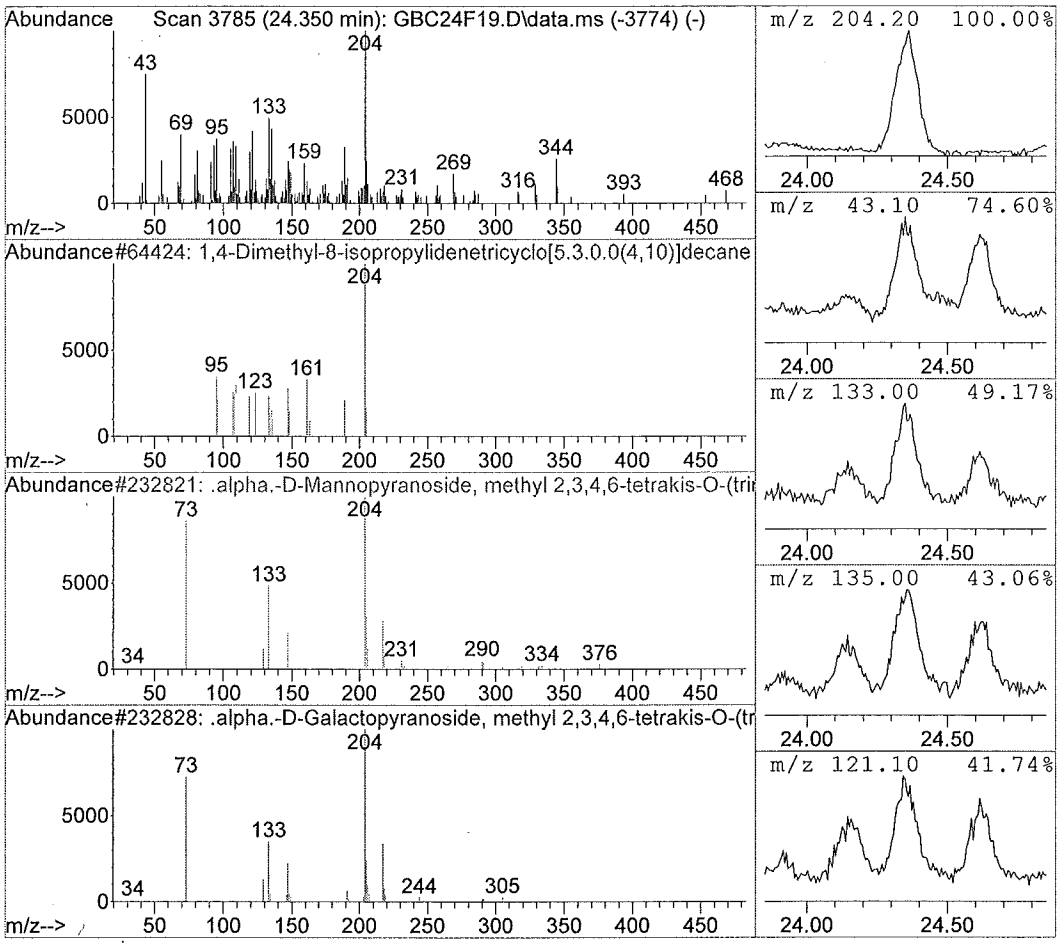
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.35	2.37 ug/ml	339565	Perylene-d12	2861670

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	49.00
2	.alpha.-D-Mannopyranoside, methyl 2	232821	001769-06-8	47.00
3	.alpha.-D-Galactopyranoside, methyl	232828	004133-45-3	47.00
4	.alpha.-D-Glucopyranoside, methyl 2	232822	002641-79-4	47.00
5	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	46.00



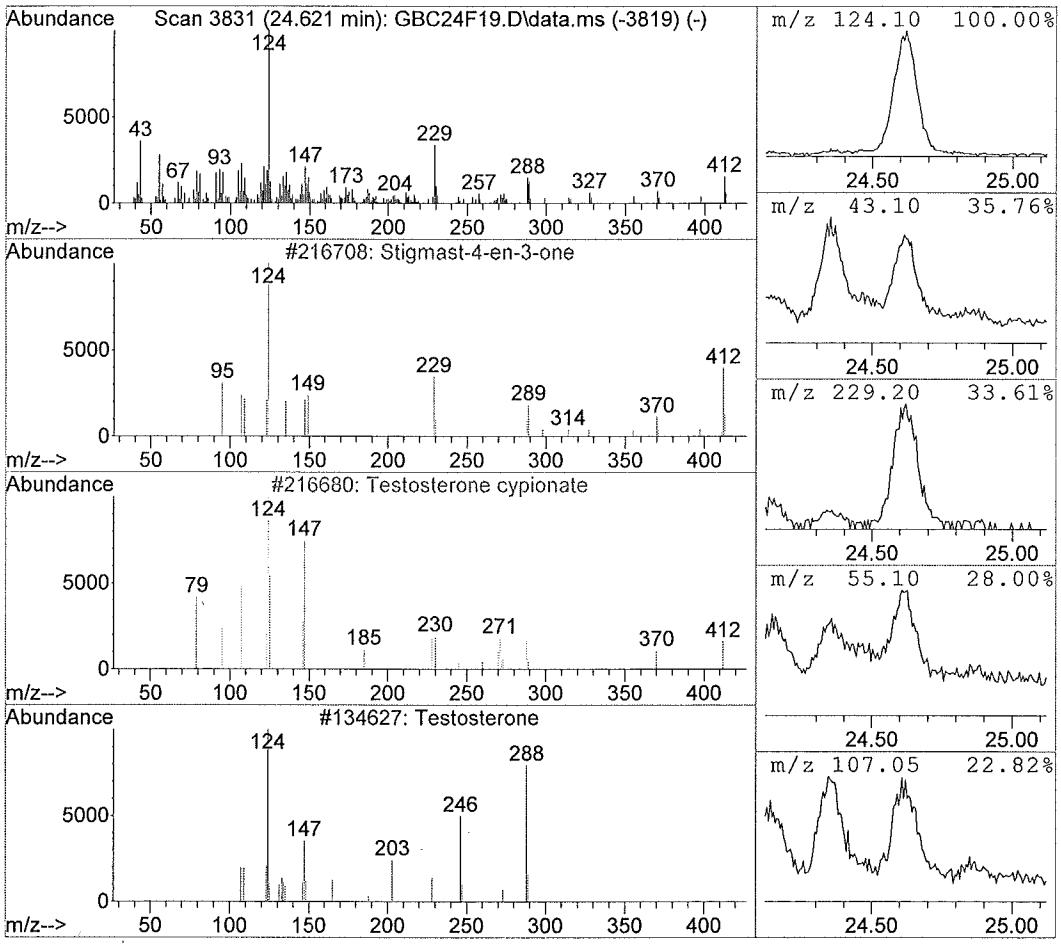
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.62	3.41 ug/ml	488550	Perylene-d12	2861670

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmast-4-en-3-one	216708	001058-61-3	91.00
2	Testosterone cypionate	216680	000058-20-8	49.00
3	Testosterone	134627	000058-22-0	43.00
4	1,3-Benzenediol, 5-pentyl-	45423	000500-66-3	38.00
5	Phenol, 2,6-diamino-	10332	022440-82-0	38.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L77

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293020

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC25F20

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/03/2015

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L77

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293020

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC25F20

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/03/2015

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9L77

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293020

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC25F20

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/03/2015

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 2,2-dimethoxy-	2.12	540	JB
02		Unknown 2-Pentanone, 4-hydroxy-	3.38	310	J
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.60	10000	J
04		Unknown 2-(2-Methoxyethoxy)ethyl acetate	4.16	150	J
05		Unknown 3-Hexene-2,5-dione	4.36	460	JB
06	638-58-4	Tetradecanamide	14.25	240	JN
07	301-02-0	9-Octadecenamide, (Z)-	15.17	2000	JNB
08		Unknown Tetradecanamide	15.27	81.	J
09		Unknown 9-Octadecenamide, (Z)-	15.96	84.	JB
10		Unknown 9-Octadecenamide, (Z)-	16.04	77.	JB
11		Unknown 2-Cyclohexyl-isoxazolidin-5-ol	16.31	160	J
12	112-84-5	13-Docosenamide, (Z)-	17.12	510	JN
13		Unknown 2H-Cyclopentacyclooctene, 4,5,6,7,8,9-he	21.56	3400	J
14		Unknown 1,3a-Ethano-3aH-indene, 1,2,3,6,7,7a-hex	21.89	260	J
15		Unknown Farnesyl bromide	22.21	310	J
16		Unknown Imidazole, 4-methyl-5-[3,3,3-trifluoropr	23.23	220	J
17		Unknown Ergosta-7,22-dien-3-ol, acetate, (3.beta	24.14	210	J
18		Unknown Naphthalene, decahydro-4a-methyl-1-methy	24.36	190	J
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	160	J

[2] EPA-designated Registry Number.

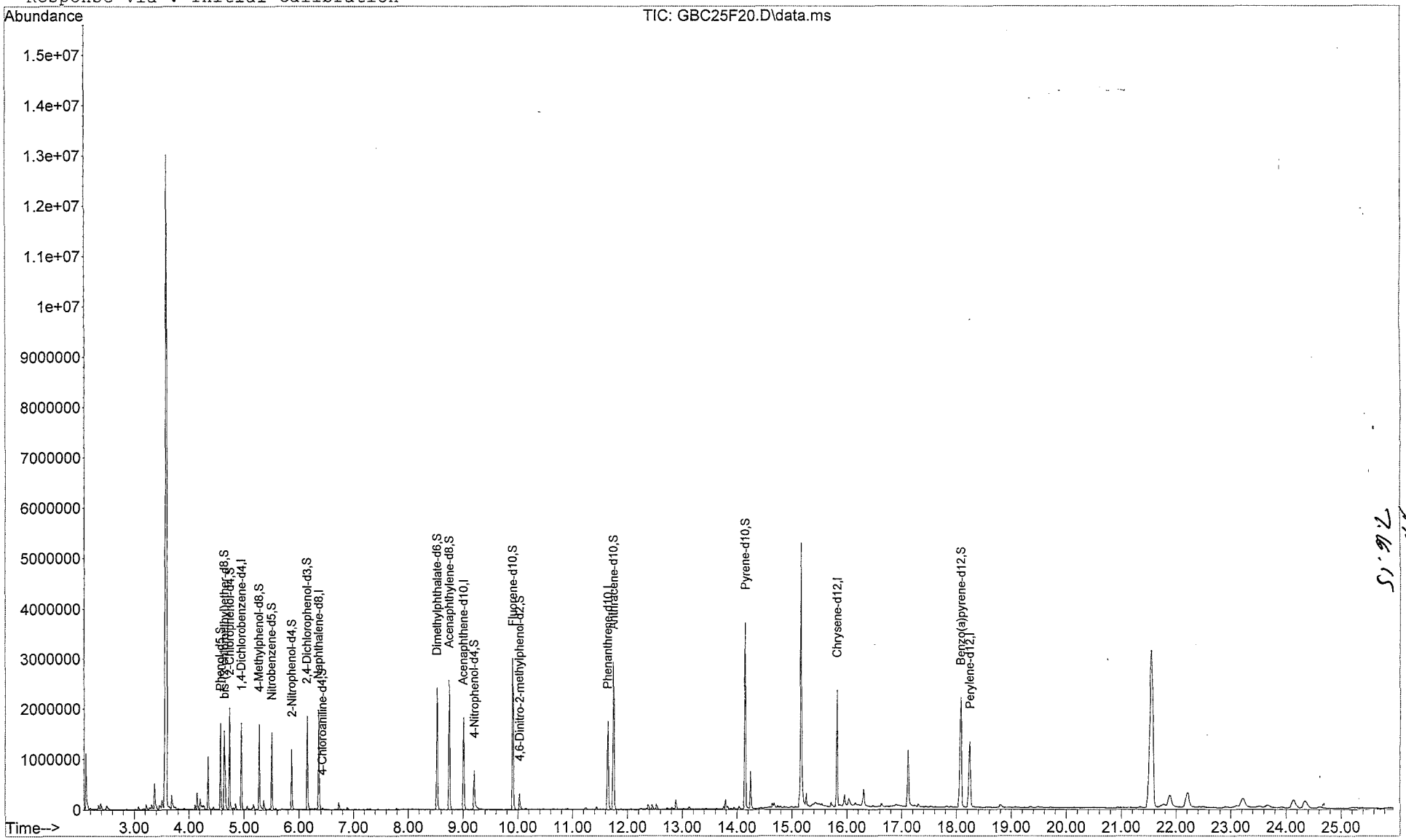
Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC25F20.D
Acq On : 06/03/2015 02:23
Sample : 1514293020 F9L77
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 21
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 14:47:32 2015 Results File: GSOM01D4.RES

Method : R:\G\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 : R:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:47:32 2015 Results File: GSOM01D4.RES

Method : R:\G\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	300493	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1123955	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	635600	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1044270	20.00 ug/ml
73) Chrysene-d12	15.83	240	1013417	20.00 ug/ml
81) Perylene-d12	18.25	264	972138	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	671440	32.043ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	333756	26.013ug/mL
7) 2-Chlorophenol-d4	4.75	132	649561	31.572ug/ml
13) 4-Methylphenol-d8	5.28	113	417177	25.571ug/mL
17) Nitrobenzene-d5	5.51	128	293528	31.127ug/ml
21) 2-Nitrophenol-d4	5.87	143	316349	30.102ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	498698	32.393ug/mL
28) 4-Chloroaniline-d4	6.43	131	15762	0.944ug/mL
42) Dimethylphthalate-d6	8.53	166	1491551	38.587ug/mL
45) Acenaphthylene-d8	8.76	160	1706963	33.089ug/mL
50) 4-Nitrophenol-d4	9.21	143	273420	33.217ug/mL
57) Fluorene-d10	9.92	176	1225245	36.493ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	75873	11.061ug/mL
69) Anthracene-d10	11.75	188	1924179	36.426ug/mL
75) Pyrene-d10	14.16	212	1727985	37.506ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1625628	36.866ug/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)

: 00473

Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:47:32 2015 Results File: GSOM01D4.RES

Method : R:\G\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)

: 084174

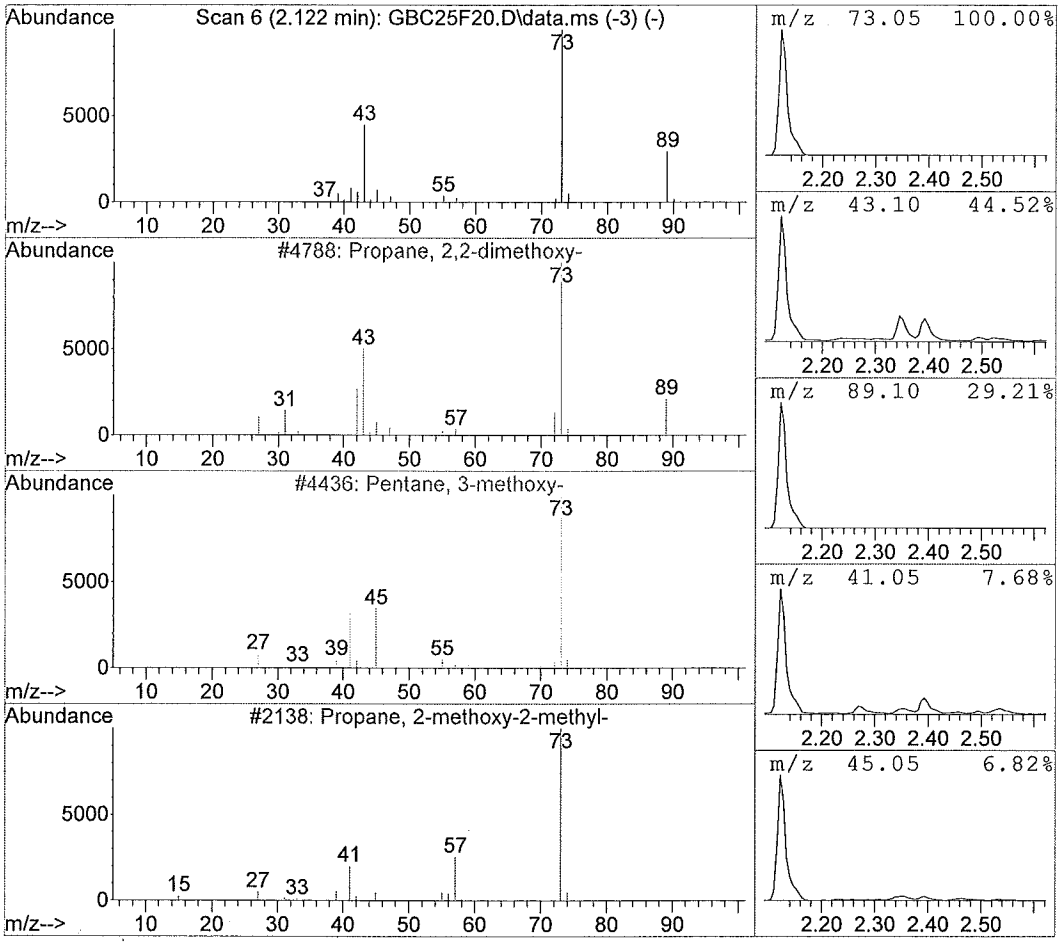
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.12	14.40 ug/ml	1206122	1,4-Dichlorobenzene-d4	1674883

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 2,2-dimethoxy-	4788	000077-76-9	38.00
2	Pentane, 3-methoxy-	4436	036839-67-5	17.00
3	Propane, 2-methoxy-2-methyl-	2138	001634-04-4	9.00
4	2-Hydroxy-2-methylbutyric acid	8706	003739-30-8	9.00
5	Methane, isothiocyanato-	716	000556-61-6	7.00



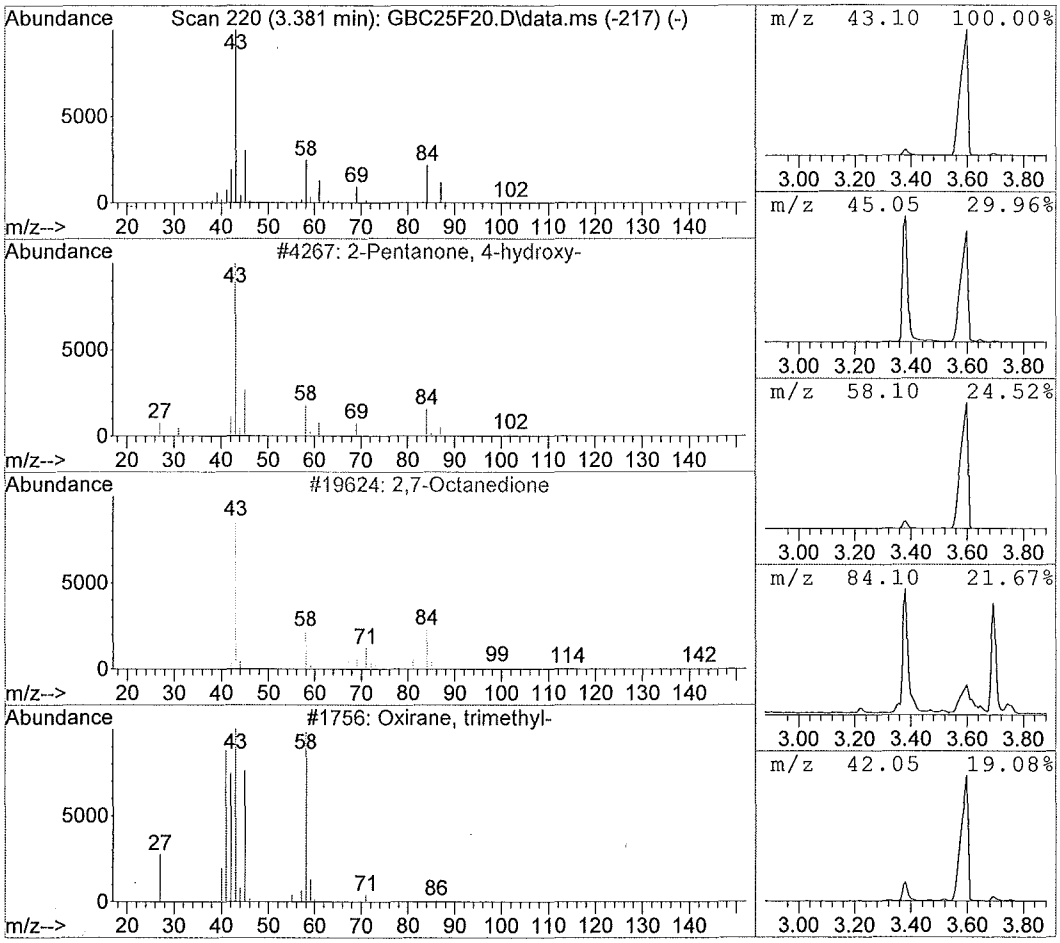
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	8.27 ug/ml	692300	1,4-Dichlorobenzene-d4	1674883

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	12.00
4	Isopropyl acetate	4254	000108-21-4	10.00
5	Propane, 1-(1-methylethoxy)-	4493	000627-08-7	9.00



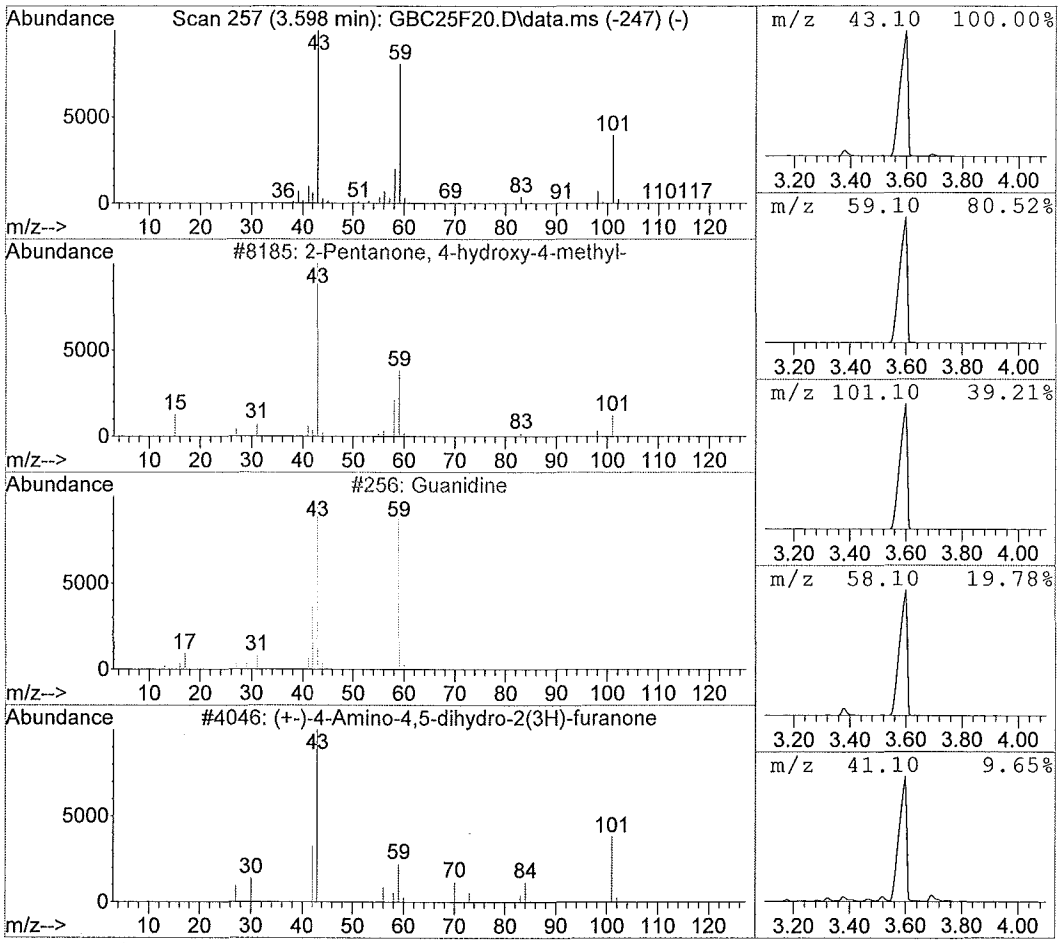
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	281.47 ug/ml	23571142	1,4-Dichlorobenzene-d4	1674883

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	50.00
2	Guanidine	256	000113-00-8	43.00
3	(+-)-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



: 00177

Library Search Compound Report

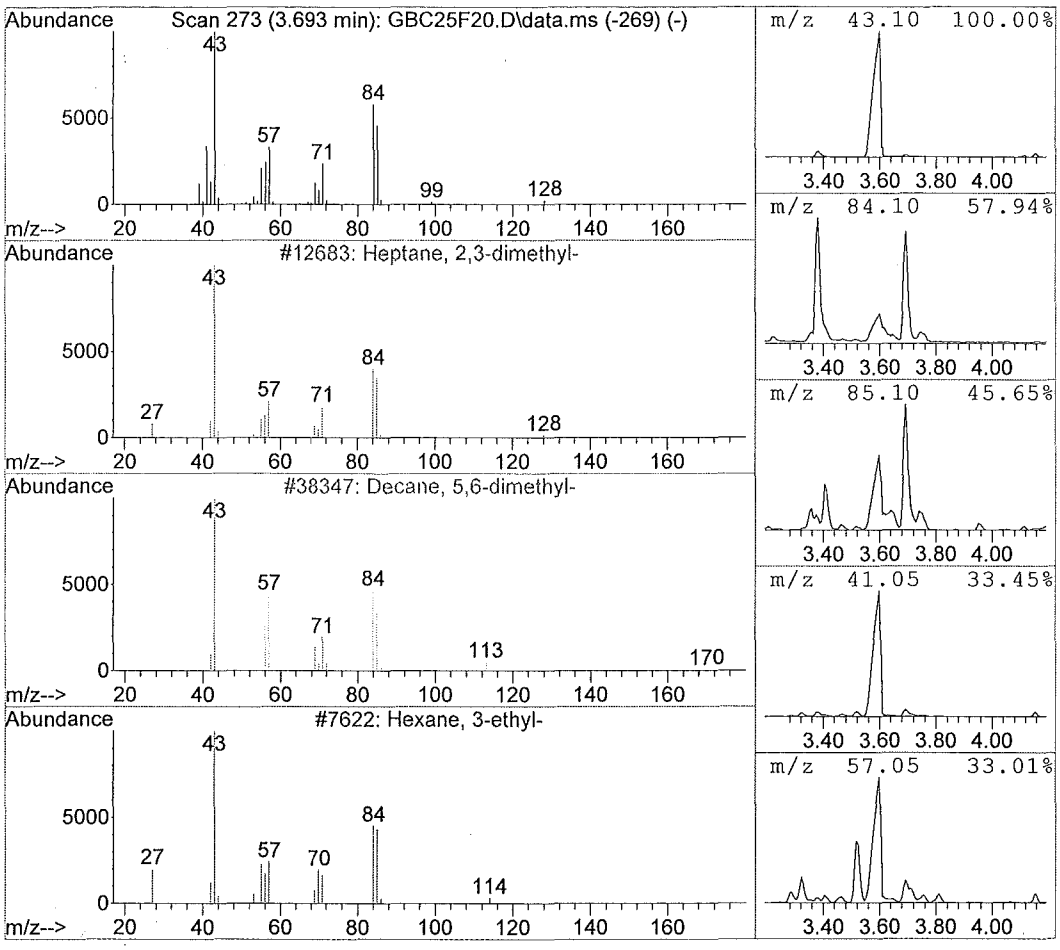
Data File : R:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.69	4.43 ug/ml	370607	1,4-Dichlorobenzene-d4	1674883

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12683	003074-71-3	87.00
2	Decane, 5,6-dimethyl-	38347	001636-43-7	78.00
3	Hexane, 3-ethyl-	7622	000619-99-8	72.00
4	Hexane, 2,3,5-trimethyl-	12708	001069-53-0	64.00
5	Hexanal, 3,3-dimethyl-	12523	055320-57-5	59.00

BA



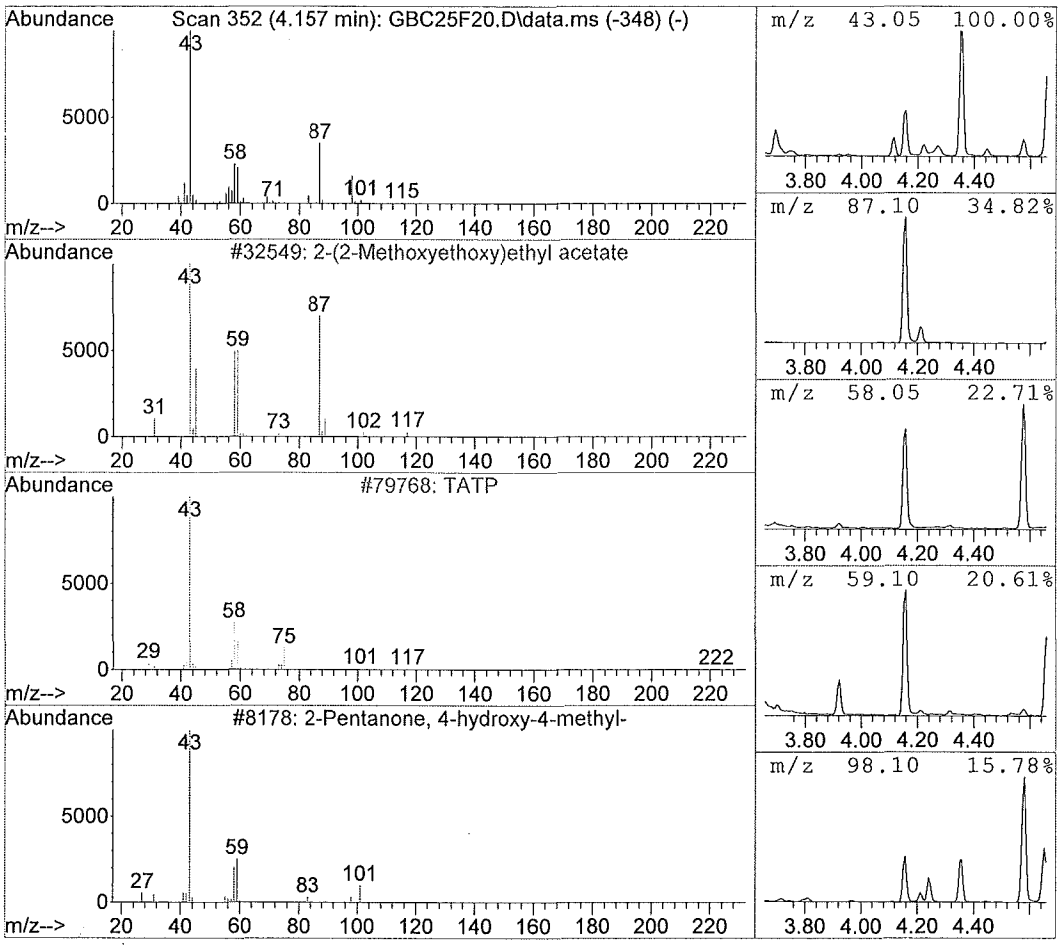
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	3.95 ug/ml	330498	1,4-Dichlorobenzene-d4	1674883

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-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	28.00
4	2-Nonanone	19930	000821-55-6	25.00
5	Propanoic acid, 2-methyl-, methyl e	4346	000547-63-7	17.00



: 00479

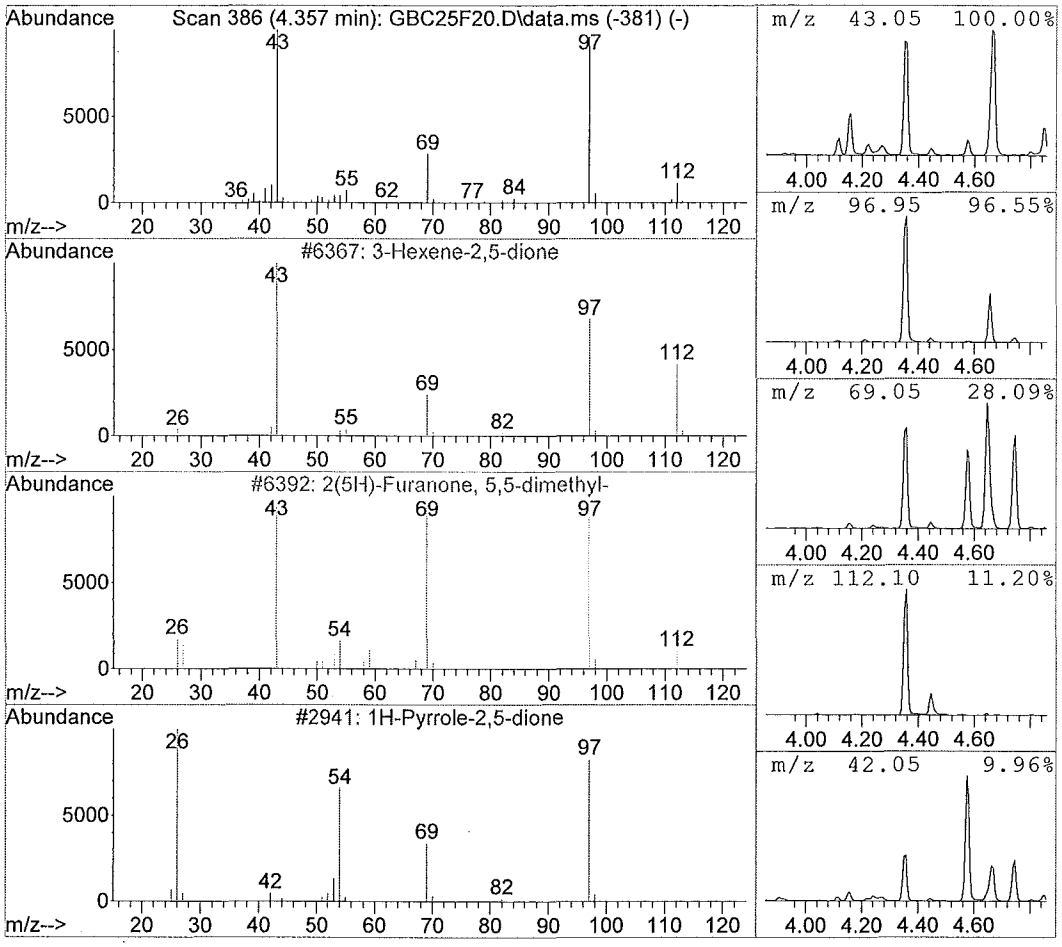
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	12.27 ug/ml	1027668	1,4-Dichlorobenzene-d4	1674883

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	5-Hexen-2-one, 5-methyl-	6529	003240-09-3	10.00
5	2-Pyrazoline, 1,4,5-trimethyl-	6304	007423-11-2	10.00



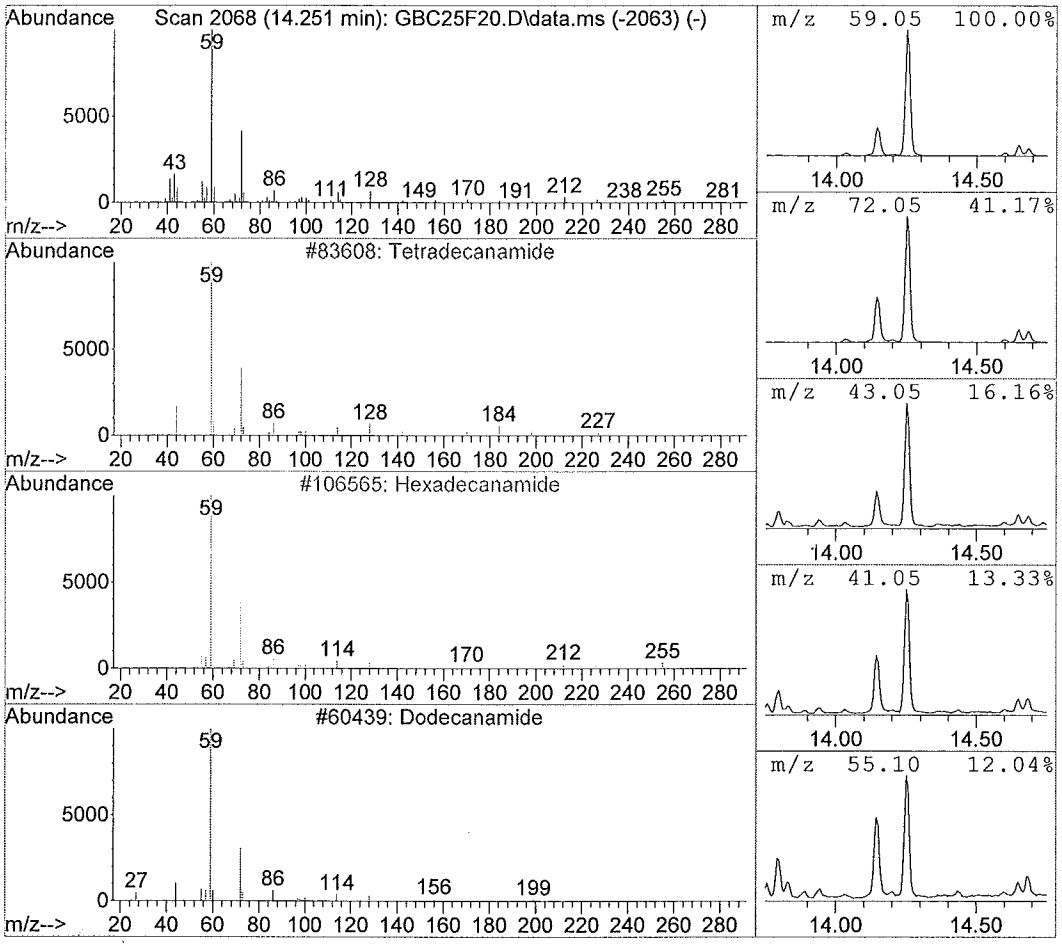
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	6.40 ug/ml	910134	Chrysene-d12	2844742

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83608	000638-58-4	90.00
2	Hexadecanamide	106565	000629-54-9	86.00
3	Dodecanamide	60439	001120-16-7	64.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	56.00



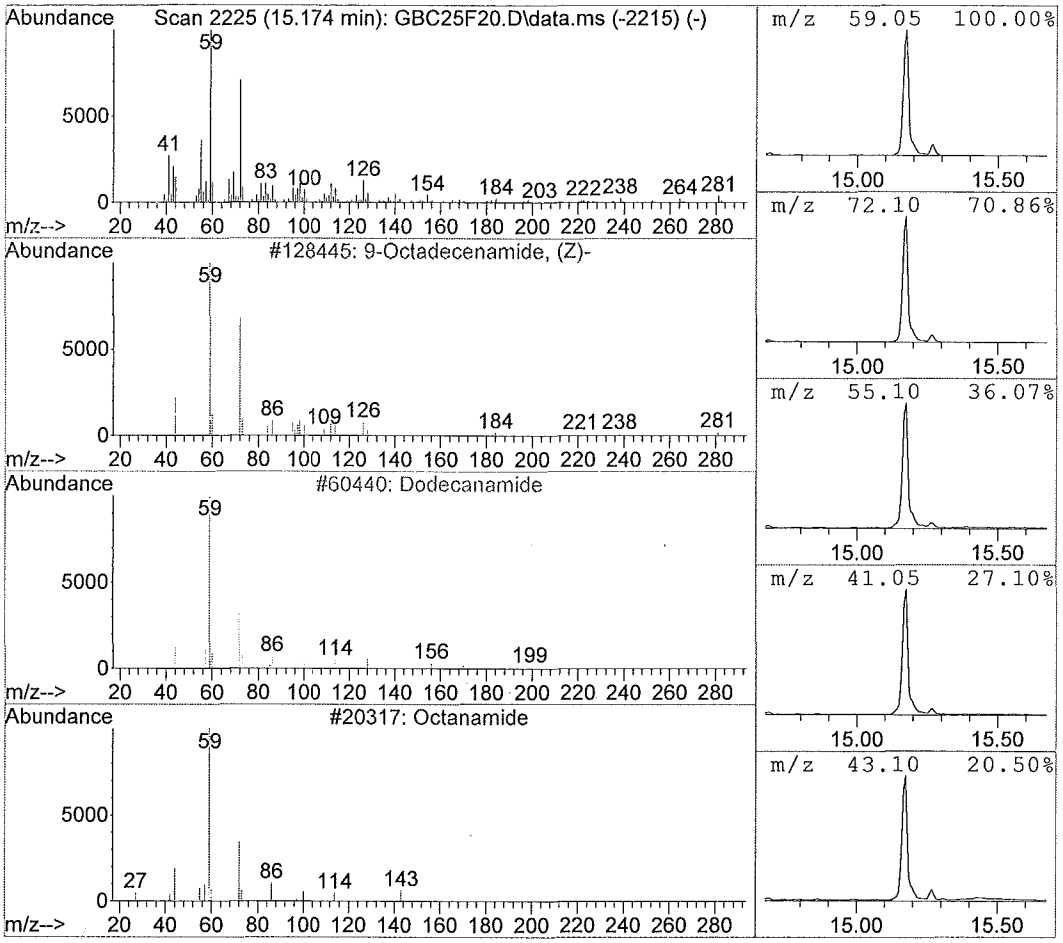
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	52.60 ug/ml	7481166	Chrysene-d12	2844742

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	Dodecanamide	60440	001120-16-7	53.00
3	Octanamide	20317	000629-01-6	53.00
4	Decanamide-	38977	002319-29-1	53.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	50.00



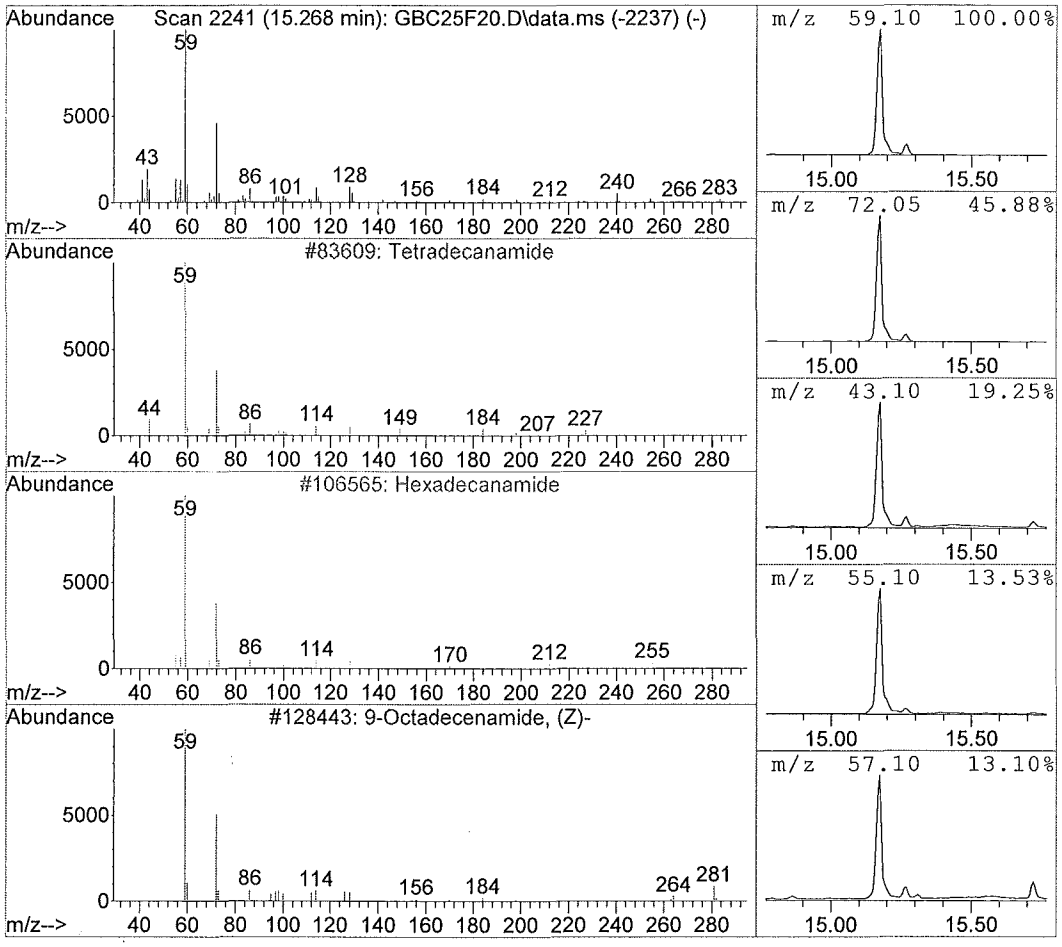
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.27	2.17 ug/ml	308363	Chrysene-d12	2844742

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83609	000638-58-4	80.00
2	Hexadecanamide	106565	000629-54-9	80.00
3	9-Octadecenamide, (Z)-	128443	000301-02-0	64.00
4	Octanamide	20317	000629-01-6	56.00
5	Dodecanamide	60439	001120-16-7	56.00



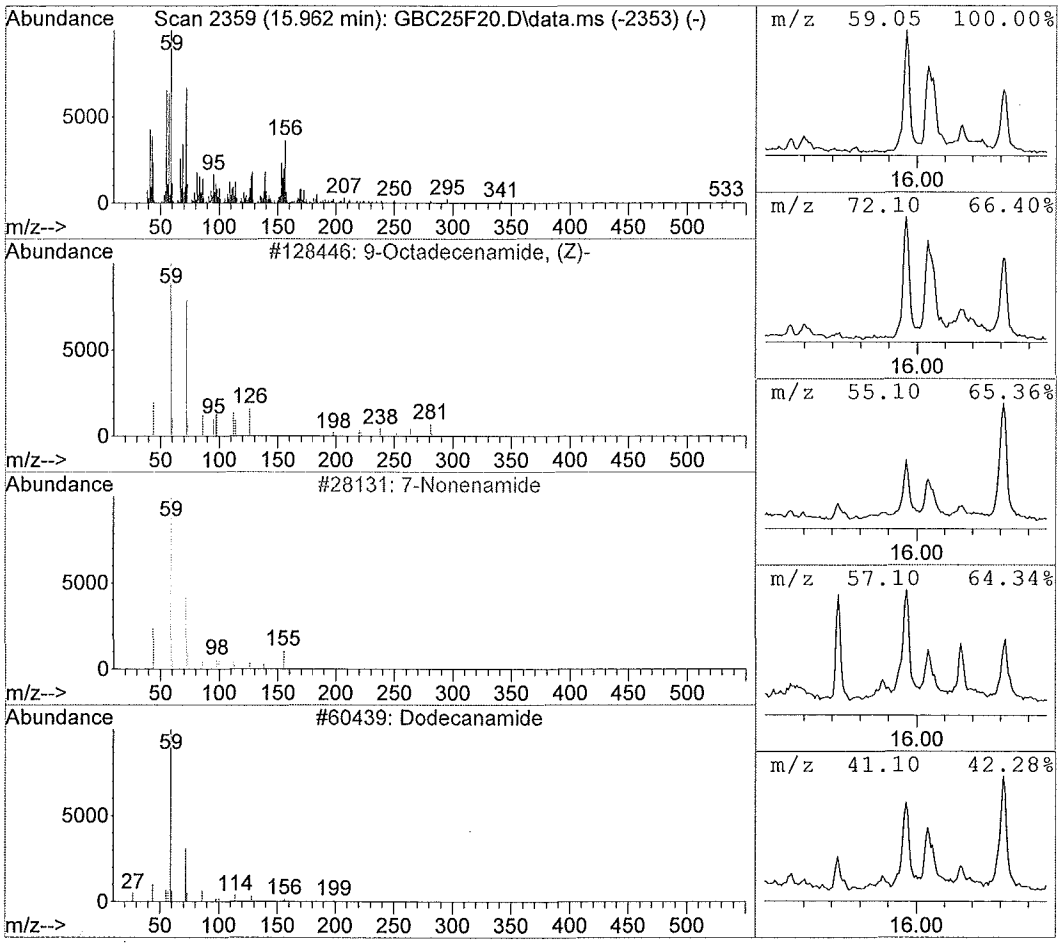
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.96	2.24 ug/ml	319187	Chrysene-d12	2844742

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128446	000301-02-0	60.00
2	7-Nonenamide	28131	090949-53-4	58.00
3	Dodecanamide	60439	001120-16-7	47.00
4	Cyclohexane, (ethoxymethoxy)-	30241	054699-29-5	25.00
5	Butanamide, 3-methyl-	4085	000541-46-8	22.00



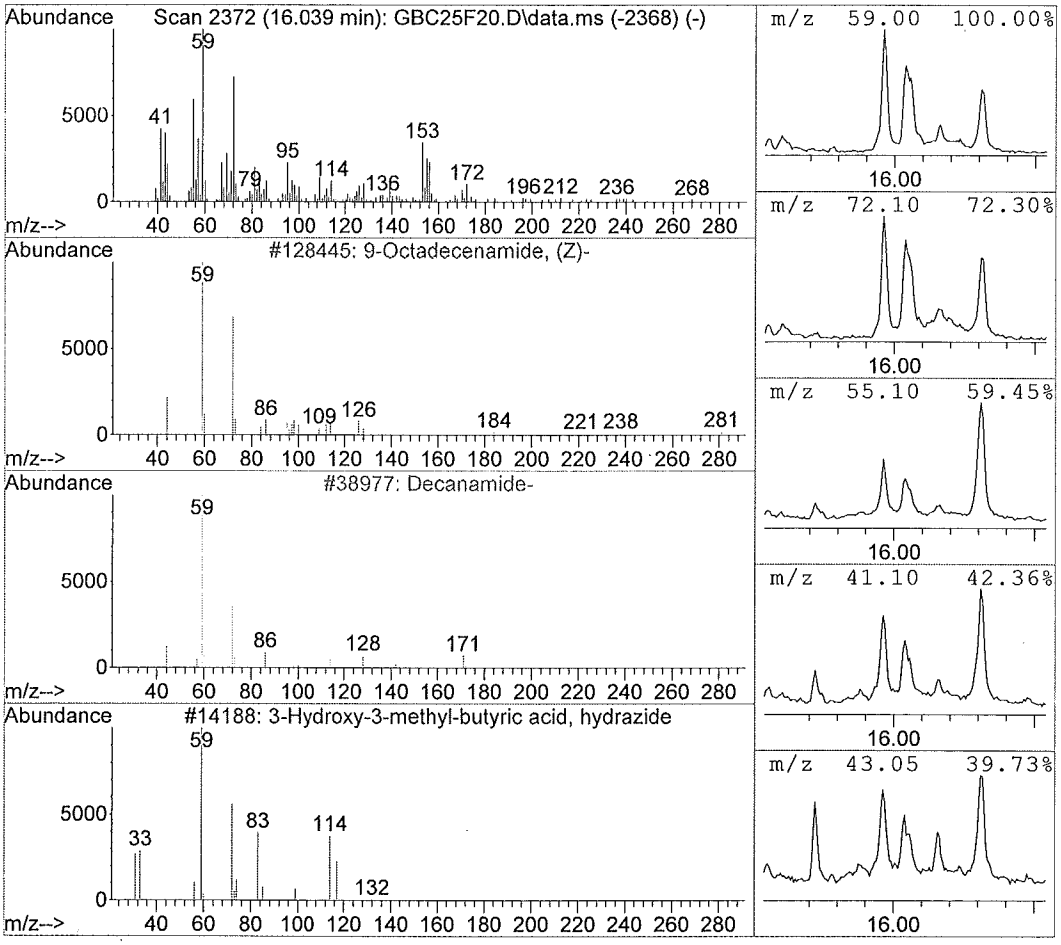
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.04	2.07 ug/ml	294468	Chrysene-d12	2844742

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	49.00
2	Decanamide-	38977	002319-29-1	47.00
3	3-Hydroxy-3-methyl-butyric acid, hy	14188	1000193-80-2	43.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	38.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	38.00



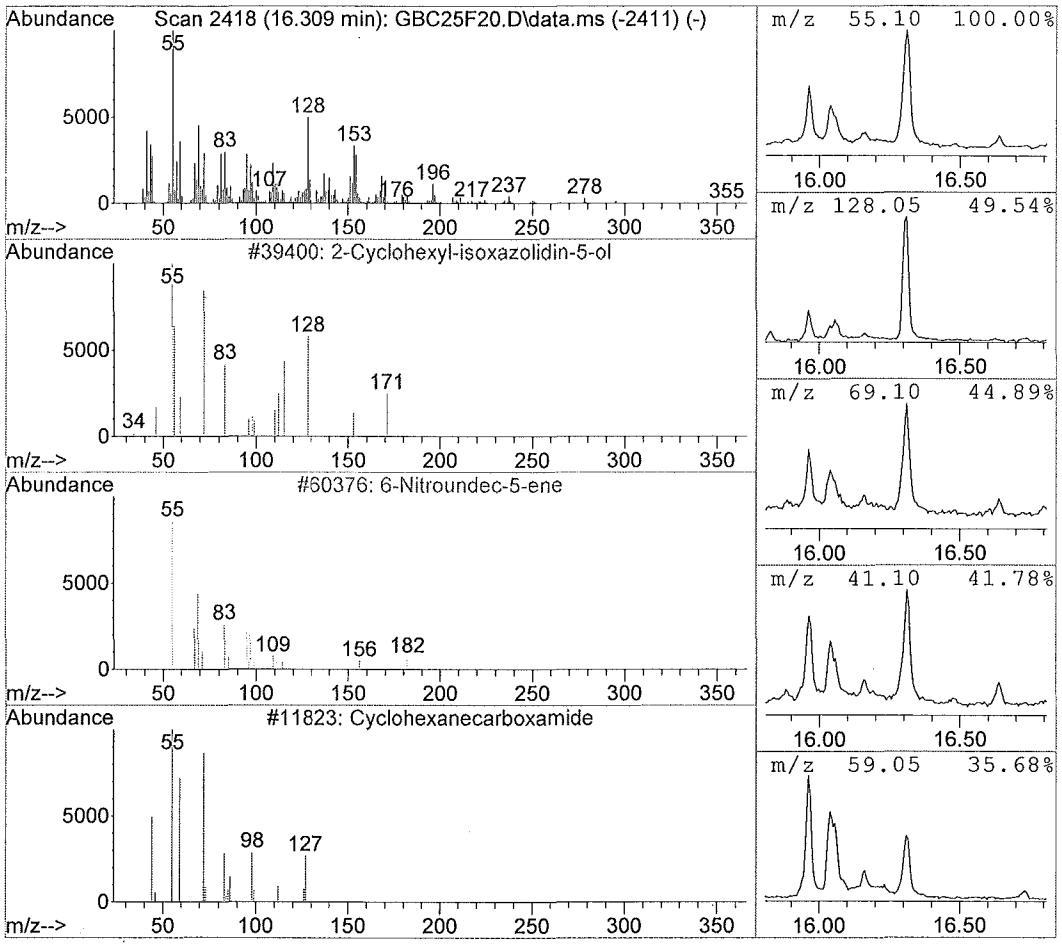
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.31	4.18 ug/ml	595089	Chrysene-d12	2844742

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Cyclohexyl-isoxazolidin-5-ol	39400	052400-49-4	12.00
2	6-Nitroundec-5-ene	60376	1000192-40-3	10.00
3	Cyclohexanecarboxamide	11823	001122-56-1	10.00
4	N-(3-Methyl-2,5-dioxo-imidazolidin-	39190	1000287-36-8	10.00
5	Bicyclo(3.3.1)nonane-2,6-dione	26015	016473-11-3	9.00



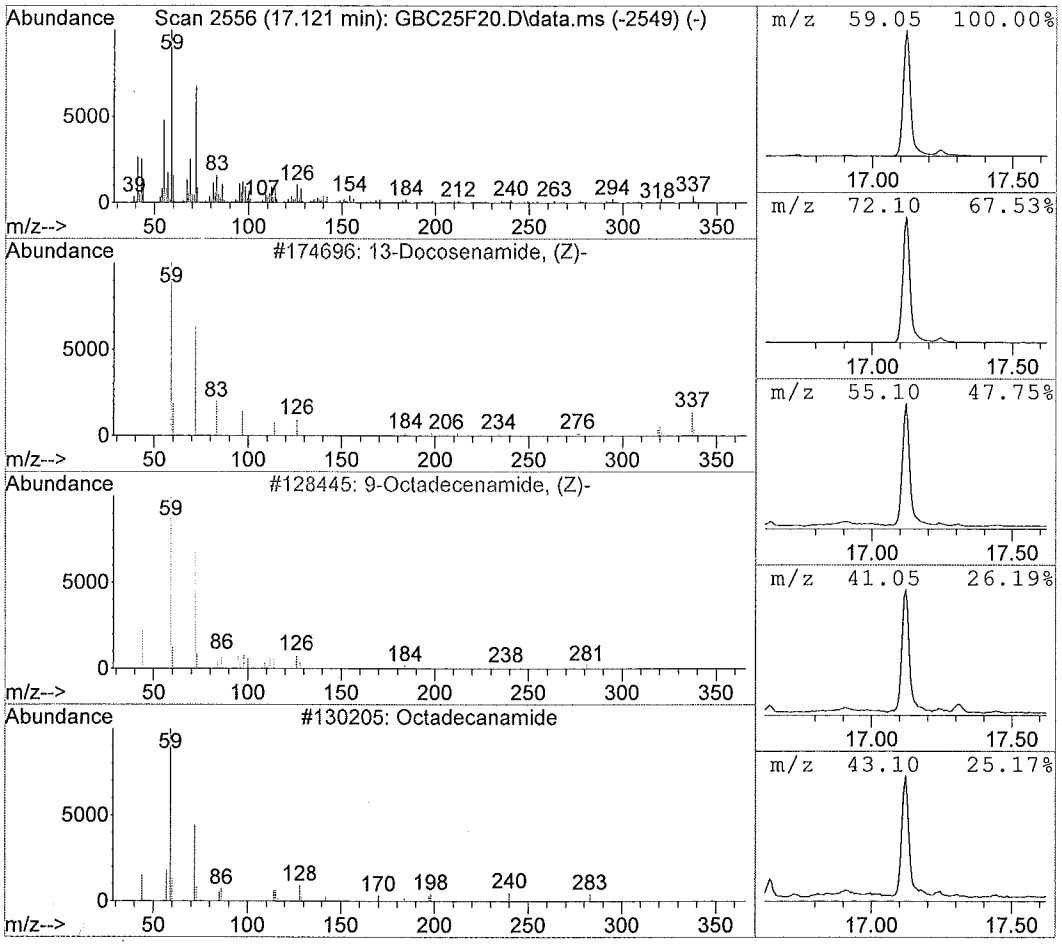
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	13.76 ug/ml	1962078	Perylene-d12	2851683

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174696	000112-84-5	94.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	91.00
3	Octadecanamide	130205	000124-26-5	62.00
4	Tetradecanamide	83610	000638-58-4	50.00
5	2-Octanol, 2-methyl-6-methylene-	28320	018479-59-9	49.00



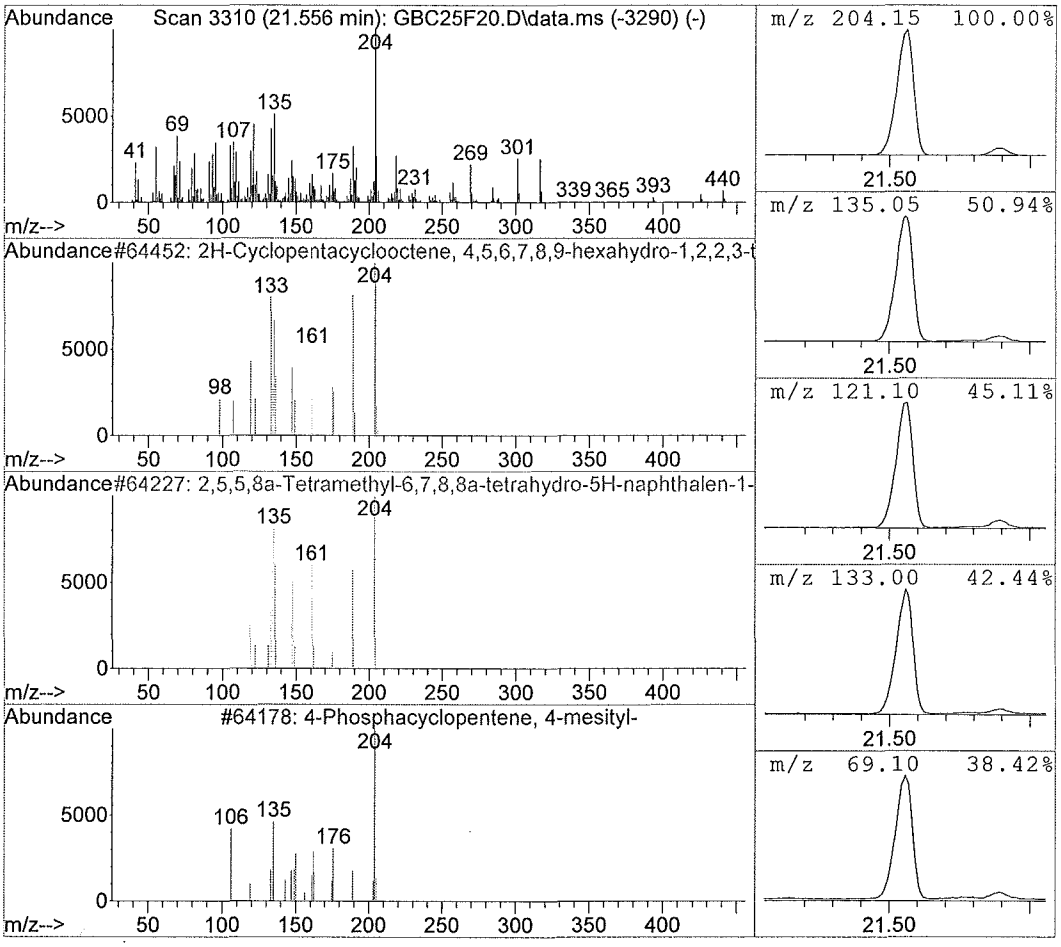
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.56	91.10 ug/ml	12989444	Perylene-d12	2851683

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2H-Cyclopentacyclooctene, 4,5,6,7,8	64452	1000221-85-8	60.00
2	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	46.00
3	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	43.00
4	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	41.00
5	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64574	000489-40-7	38.00



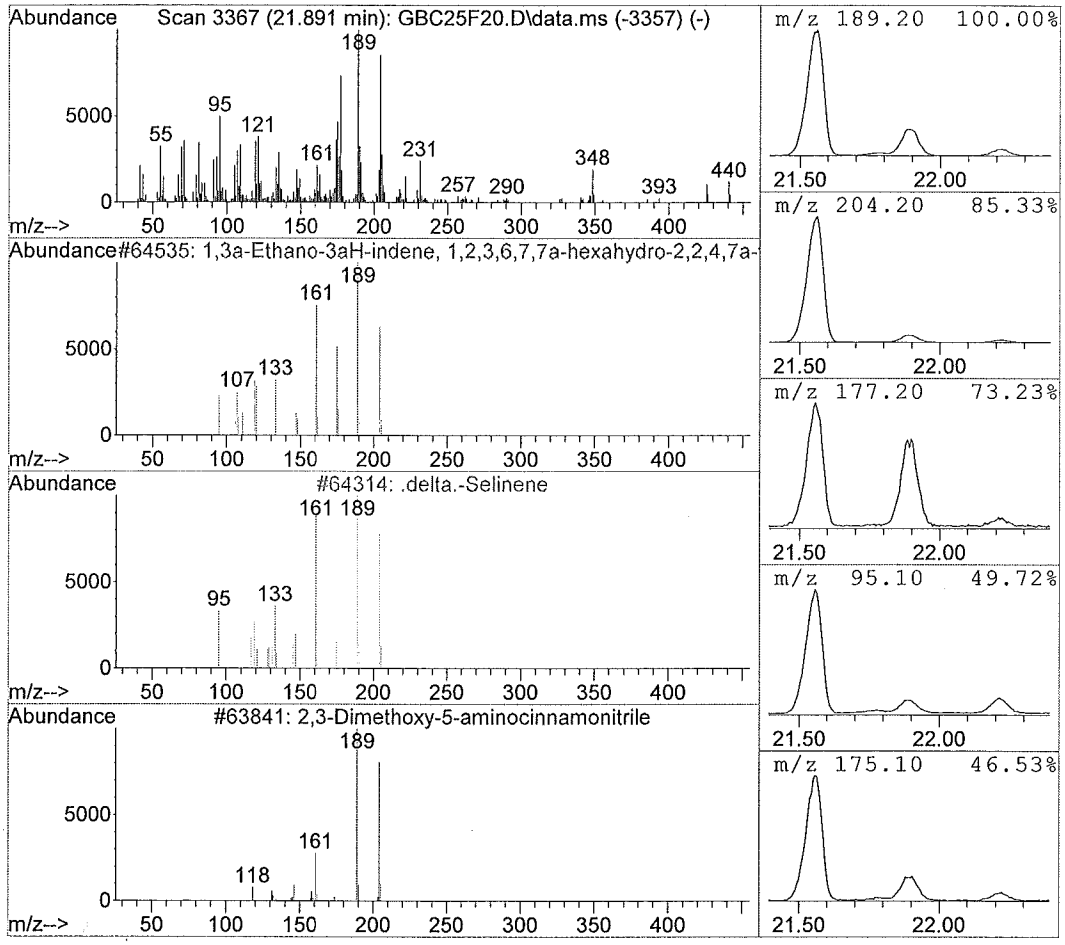
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.89	6.86 ug/ml	977658	Perylene-d12	2851683

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3a-Ethano-3aH-indene, 1,2,3,6,7,7	64535	004545-68-0	53.00
2	.delta.-Selinene	64314	028624-23-9	43.00
3	2,3-Dimethoxy-5-aminocinnamonitrile	63841	1000214-46-5	27.00
4	Coumarin, 3,4-dihydro-4;4,6,8-tetra	64132	249629-60-5	27.00
5	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64575	000489-40-7	25.00



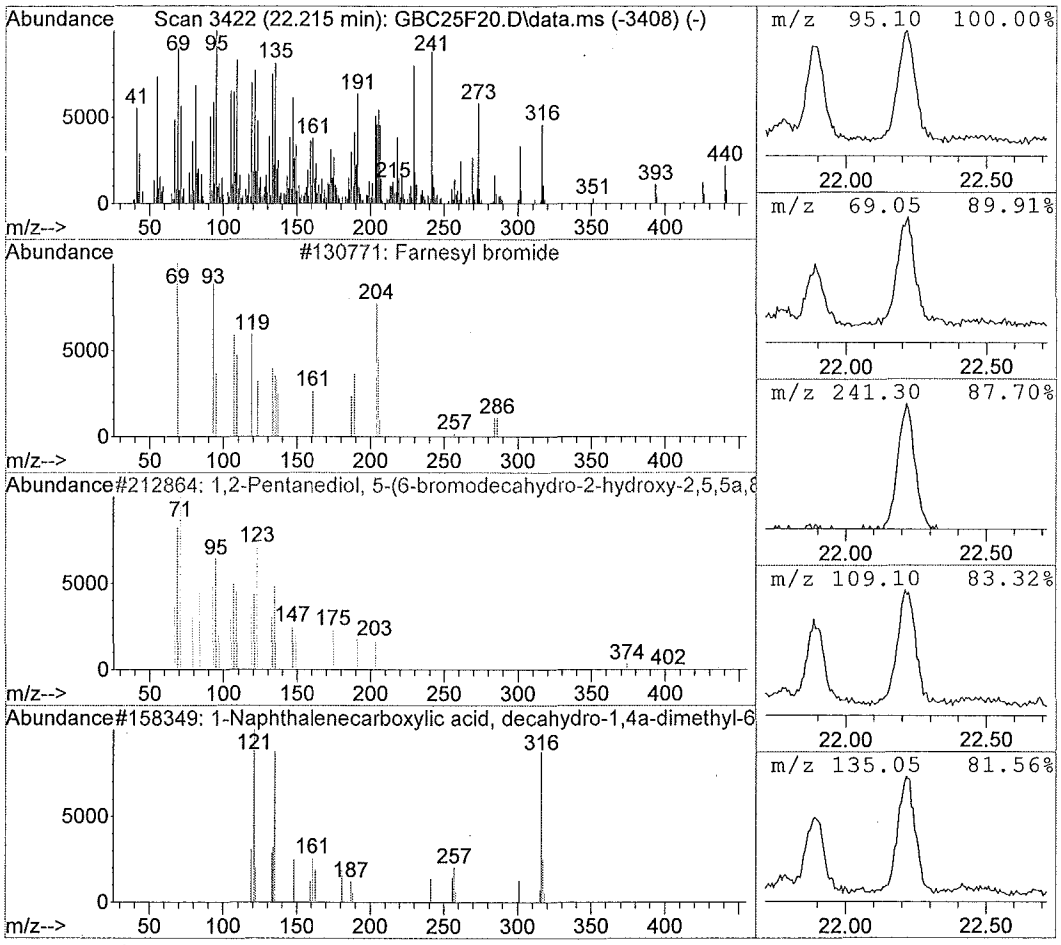
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.21	8.35 ug/ml	1190046	Perylene-d12	2851683

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Farnesyl bromide	130771	006874-67-5	41.00
2	1,2-Pentanediol, 5-(6-bromodecahydr	212864	115346-29-7	35.00
3	1-Naphthalenecarboxylic acid, decah	158349	001235-39-8	30.00
4	.alpha.-Bulnesene	64321	1000374-19-9	20.00
5	Benzofuran, 2,4,5,6,7,7a-hexahydro-	77632	069296-94-2	18.00



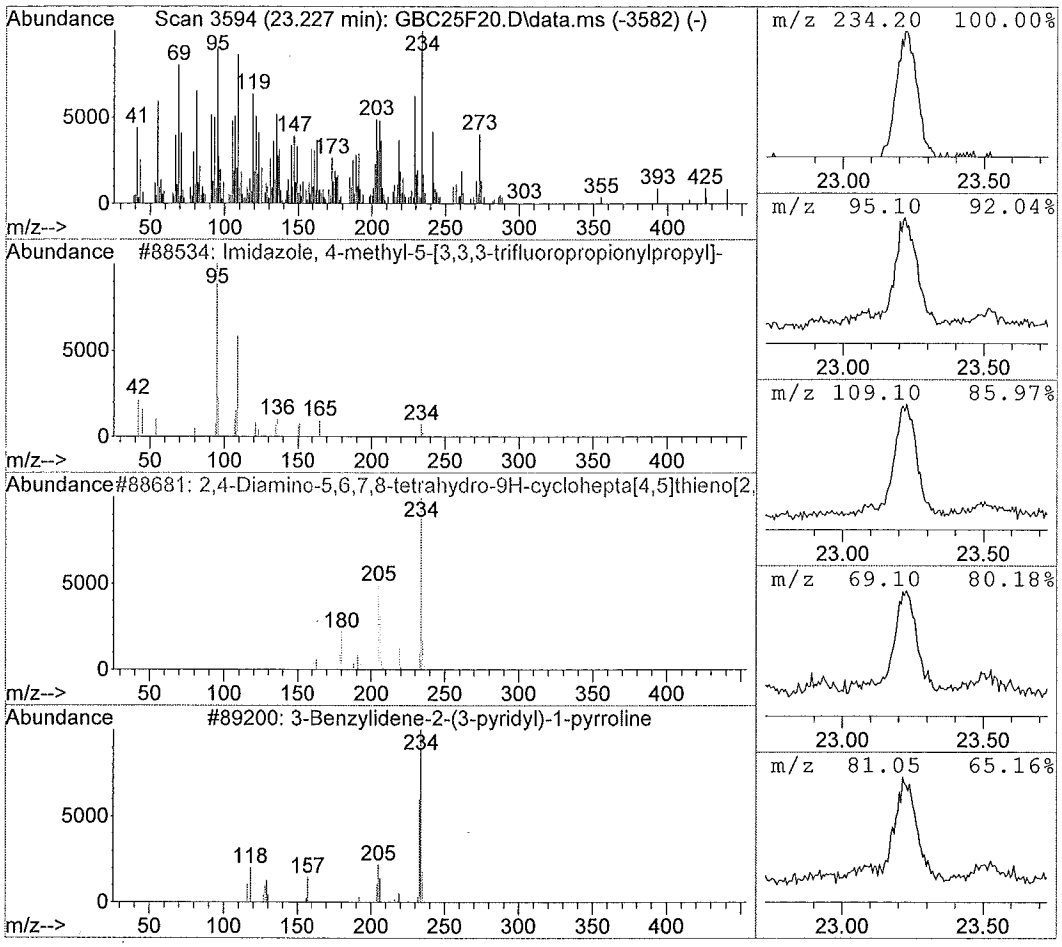
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.23	5.96 ug/ml	849682	Perylene-d12	2851683

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Imidazole, 4-methyl-5-[3,3,3-triflu	88534	1000129-15-8	46.00
2	2,4-Diamino-5,6,7,8-tetrahydro-9H-c	88681	042159-81-9	44.00
3	3-Benzylidene-2-(3-pyridyl)-1-pyrro	89200	093013-30-0	41.00
4	Friedelan-3-one	221187	000559-74-0	38.00
5	1H-3a,7-Methanoazulen-5-ol, octahyd	77611	028231-03-0	25.00



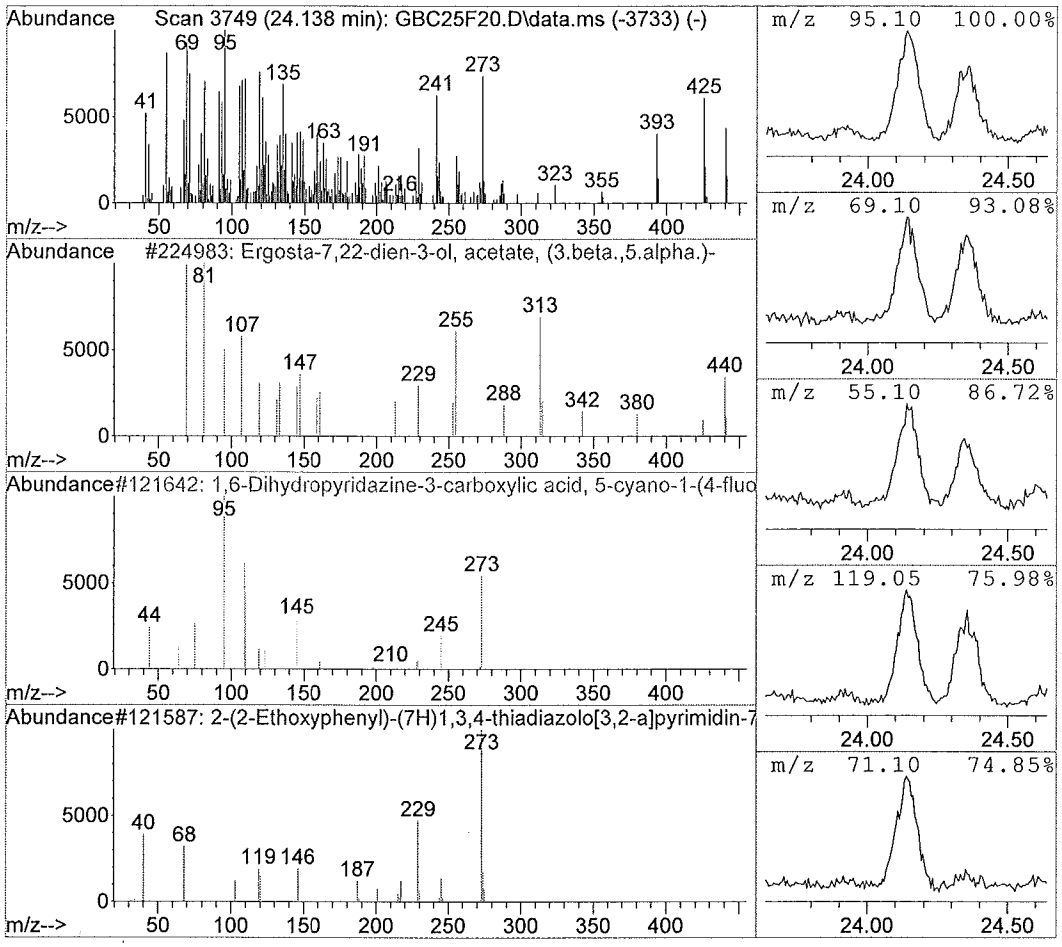
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	5.51 ug/ml	785887	Perylene-d12	2851683

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ergosta-7,22-dien-3-ol, acetate, (3	224983	001449-60-1	42.00
2	1,6-Dihydropyridazine-3-carboxylic	121642	1000304-05-0	25.00
3	2-(2-Ethoxyphenyl)-(7H)1,3,4-thiadi	121587	1000103-48-8	25.00
4	Lanosterol	221175	000079-63-0	22.00
5	Tolcapone	121656	134308-13-7	22.00



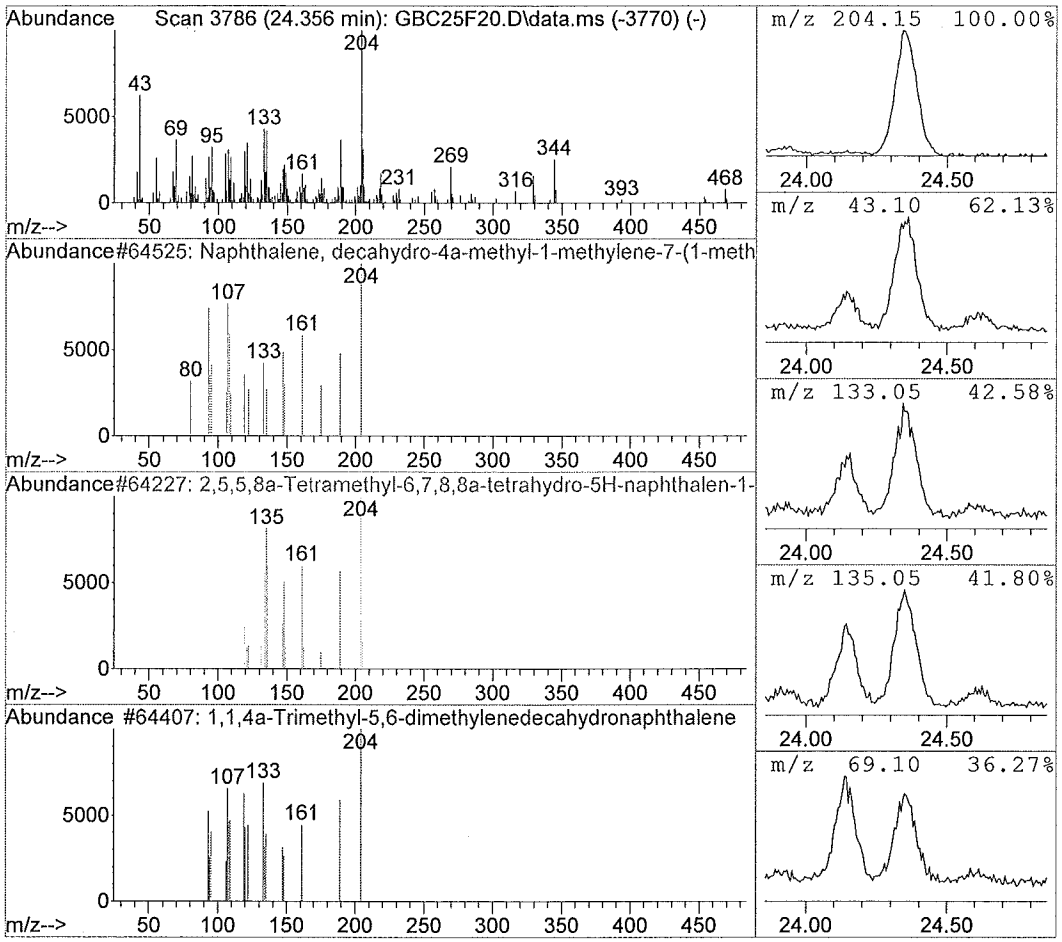
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.36	4.97 ug/ml	708955	Perylene-d12	2851683

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, decahydro-4a-methyl-1-	64525	017066-67-0	60.00
2	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	49.00
3	1,1,4a-Trimethyl-5,6-dimethylenedec	64407	1000193-60-8	45.00
4	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	45.00
5	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	43.00



1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L78

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293021

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC26F21

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/03/2015

GPC Cleanup: (Y/N) Y pH: 6.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	200	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L78

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293021

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC26F21

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/03/2015

GPC Cleanup: (Y/N) Y pH: 6.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	20.	J
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9L78

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293021

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC26F21

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/03/2015

GPC Cleanup: (Y/N) Y pH: 6.8 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Pentane, 3-methoxy-	2.13	160	J
02		Unknown 2-Pentanone, 4-hydroxy-	3.38	180	J
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.59	6100	J
04		Unknown 2-(2-Methoxyethoxy)ethyl acetate	4.16	95.	J
05		Unknown 3-Hexene-2,5-dione	4.36	480	JB
06	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	12.46	78.	JN
07	112-39-0	Hexadecanoic acid, methyl ester	12.53	130	JN
08	112-62-9	9-Octadecenoic acid (Z)-, methyl ester	13.80	90.	JN
09	629-54-9	Hexadecanamide	14.26	190	JNB
10	301-02-0	9-Octadecenamide, (Z)-	15.17	1600	JNB
11		Unknown 1,3-Dimethylimidazole-2(3H)-thione	16.31	130	J
12	301-02-0	9-Octadecenamide, (Z)-	17.12	230	JN
13		Unknown 1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-	21.55	1300	J
14	1000362-82-6	Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 1-ethy	22.22	130	JN
15		Unknown 9,11-Epoxytestosterone acetate	24.36	180	J
16	1058-61-3	Stigmast-4-en-3-one	24.62	130	JN
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	550	J

[2] EPA-designated Registry Number.

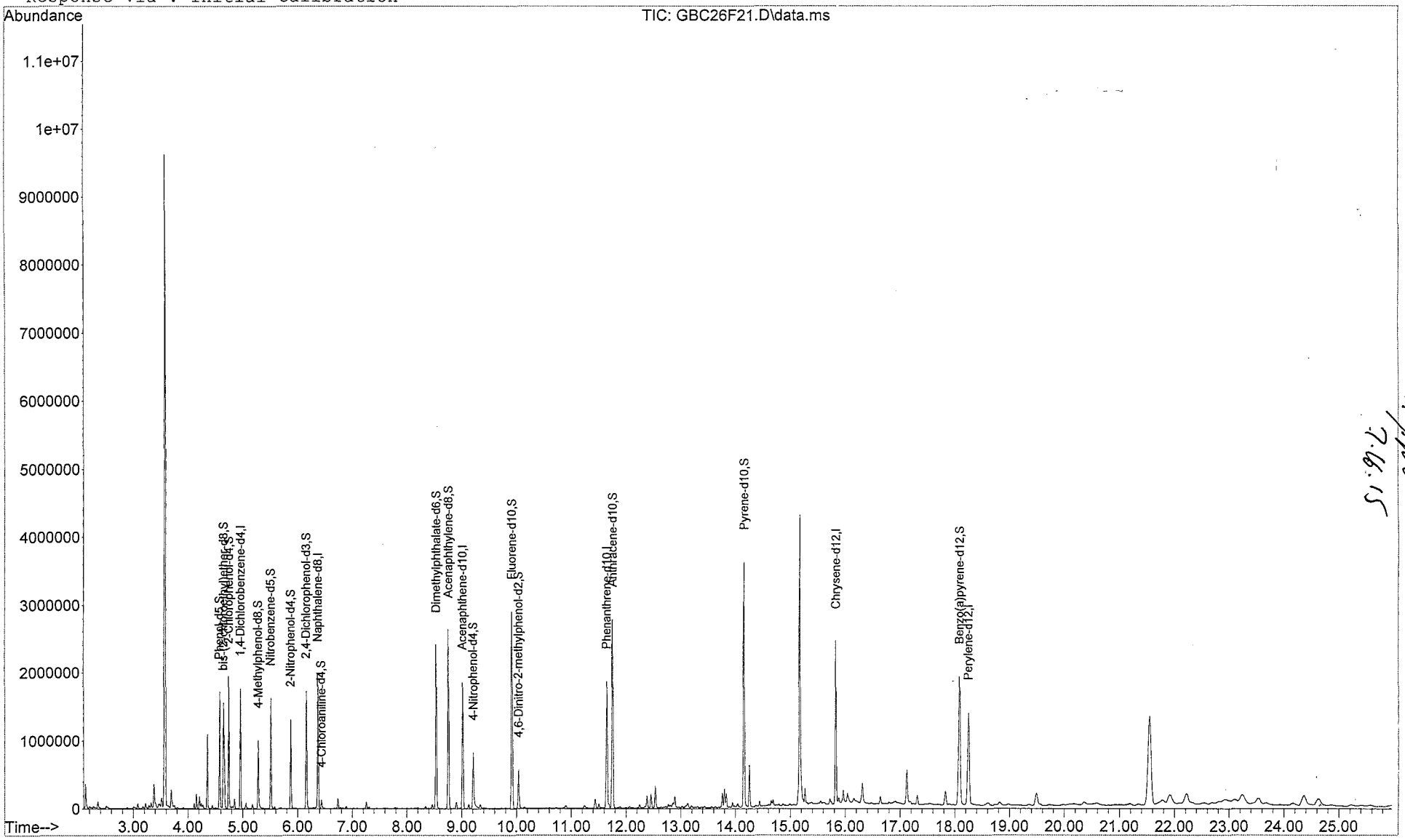
Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC26F21.D
Acq On : 06/03/2015 02:55
Sample : 1514293021 F9L78
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 22
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 14:47:54 2015 Results File: GSOM01D4.RES

Method : R:\G\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 : R:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:47:54 2015 Results File: GSOM01D4.RES

Method : R:\G\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	308981	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1156314	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	650171	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1081936	20.00 ug/ml
73) Chrysene-d12	15.83	240	1053656	20.00 ug/ml
81) Perylene-d12	18.25	264	1021731	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	650723	30.201ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	335340	25.418ug/mL
7) 2-Chlorophenol-d4	4.75	132	611430	28.902ug/ml
13) 4-Methylphenol-d8	5.28	113	261588	15.594ug/mL
17) Nitrobenzene-d5	5.51	128	300568	30.981ug/ml
21) 2-Nitrophenol-d4	5.87	143	344390	31.854ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	465861	29.413ug/mL
28) 4-Chloroaniline-d4	6.43	131	58688	3.416ug/mL
42) Dimethylphthalate-d6	8.53	166	1491283	37.715ug/mL
45) Acenaphthylene-d8	8.76	160	1718642	32.569ug/mL
50) 4-Nitrophenol-d4	9.21	143	279979	33.251ug/mL
57) Fluorene-d10	9.92	176	1205080	35.088ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	138609	19.504ug/mL
69) Anthracene-d10	11.76	188	1839911	33.618ug/mL
75) Pyrene-d10	14.16	212	1639126	34.218ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1404520	30.305ug/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)

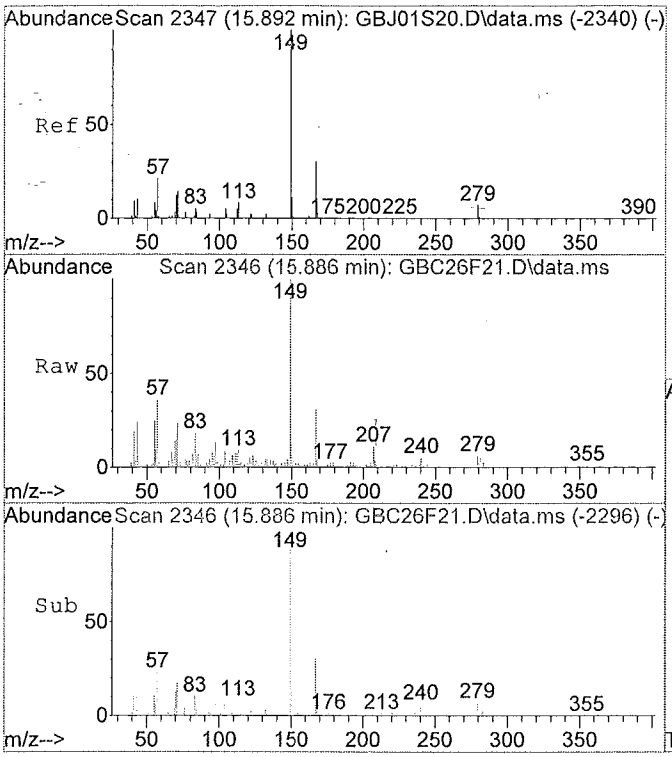
Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:47:54 2015 Results File: GSOM01D4.RES

Method : R:\G\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	15.89	149	26757	0.526ug/ml	99
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	0.00	252		Not Detected	
84) Benzo(k)fluoranthene	0.00	252		Not Detected	
85) Benzo(a)pyrene	0.00	252		Not Detected	
87) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89) Benzo(g,h,i)perylene	0.00	276		Not Detected	

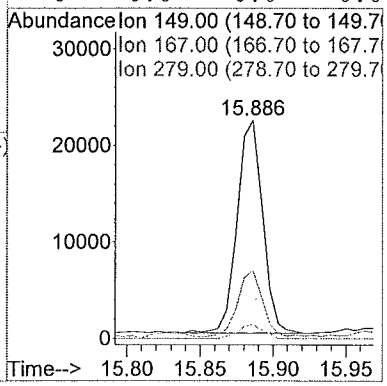
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#80
Bis-(2-ethylhexyl)phthalate
Concen: 0.53 ug/ml
RT: 15.89 min Scan# 2346
Delta R.T. -0.01 min
Lab File: GBC26F21.D
Acq: 06/03/2015 02:55

Tgt Ion:149 Resp: 26757

Ion	Ratio	Lower	Upper
149	100		
167	32.0	22.0	40.8
279	6.4	5.0	9.2
0	0.0	0.0	0.0



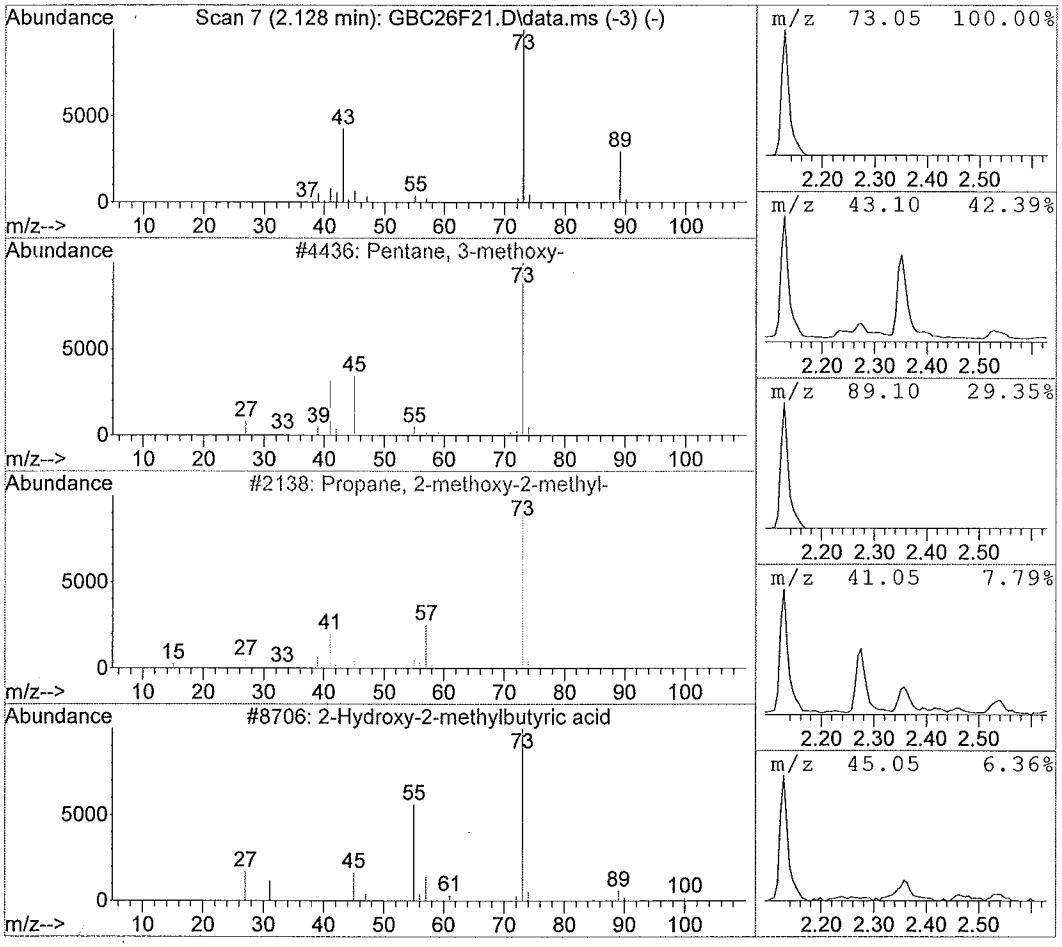
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.13	4.29 ug/ml	370365	1,4-Dichlorobenzene-d4	1727437

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentane, 3-methoxy-	4436	036839-67-5	25.00
2	Propane, 2-methoxy-2-methyl-	2138	001634-04-4	9.00
3	2-Hydroxy-2-methylbutyric acid	8706	003739-30-8	9.00
4	1-(2-Methoxyethoxy)-2-methyl-2-prop	32662	1000364-24-4	9.00
5	Propane, 2,2-dimethoxy-	4788	000077-76-9	9.00



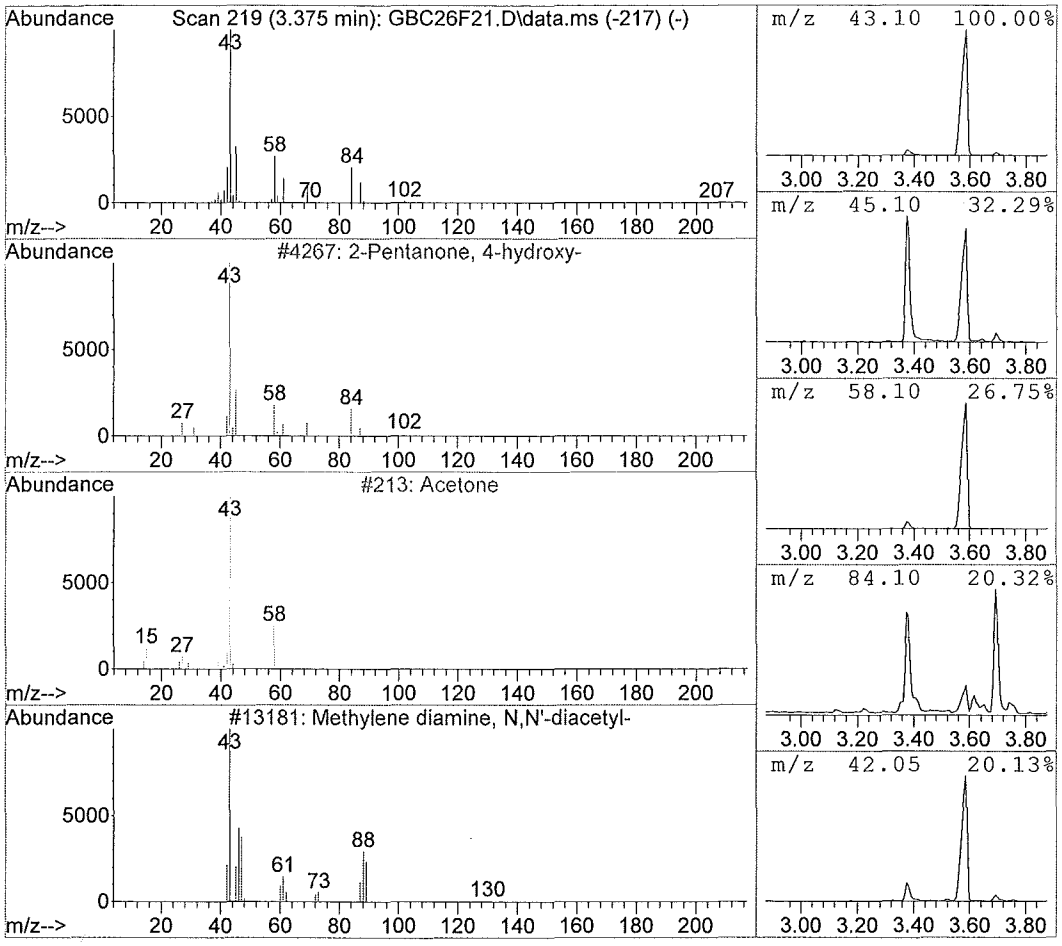
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.37	4.58 ug/ml	395490	1,4-Dichlorobenzene-d4	1727437

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	64.00
2	Acetone	213	000067-64-1	9.00
3	Methylene diamine, N,N'-diacetyl-	13181	003852-14-0	9.00
4	2-Methyoxirane-2-carboxylic acid, m	8057	1000306-64-8	9.00
5	Isopropyl acetate	4253	000108-21-4	9.00



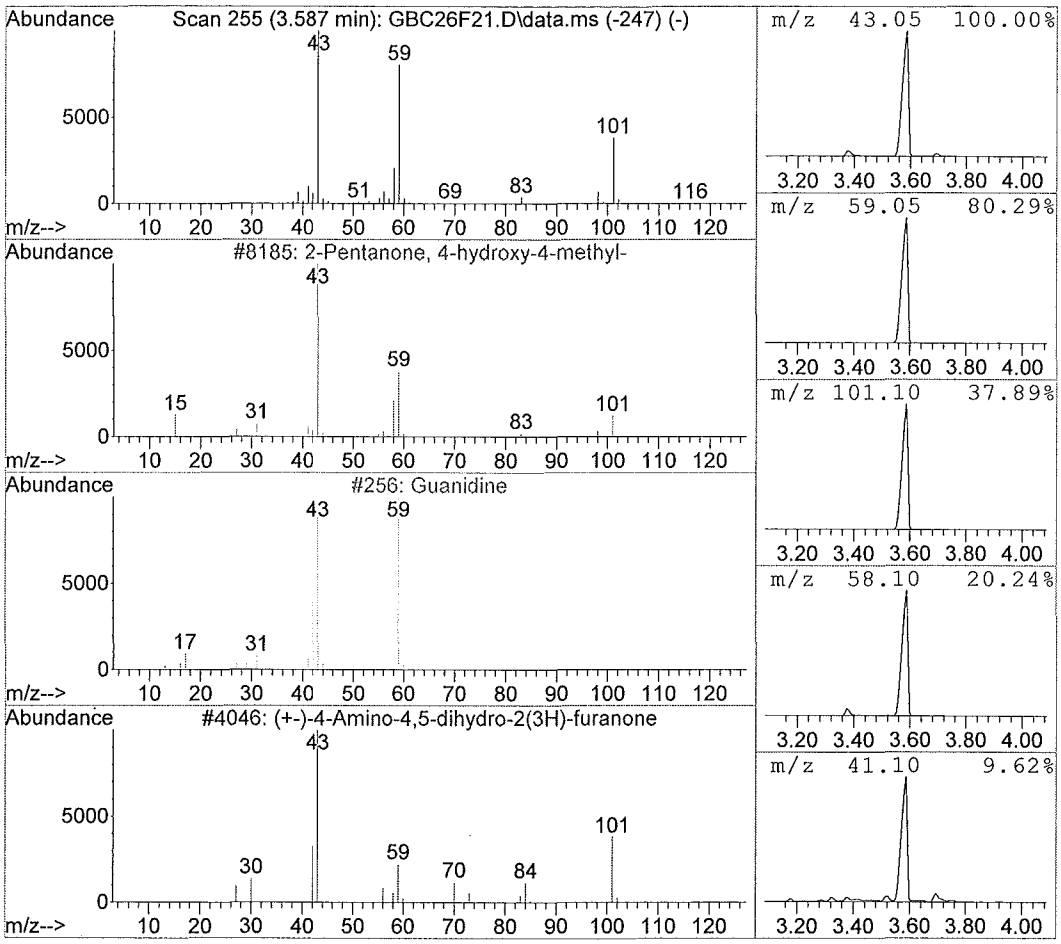
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.59	158.05 ug/ml	13650780	1,4-Dichlorobenzene-d4	1727437

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	50.00
2	Guanidine	256	000113-00-8	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	3158	000109-49-9	9.00



Library Search Compound Report

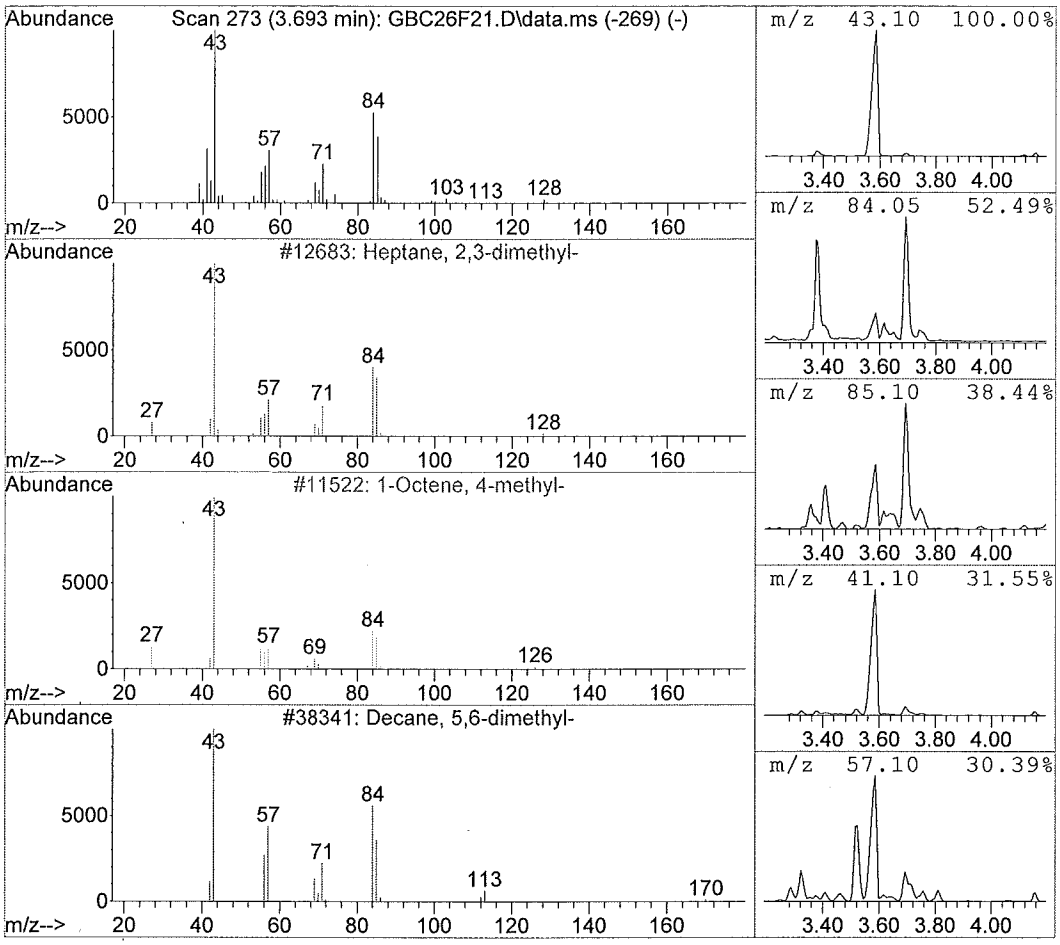
Data File : R:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.69	4.13 ug/ml	357024	1,4-Dichlorobenzene-d4	1727437

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12683	003074-71-3	90.00
2	1-Octene, 4-methyl-	11522	013151-12-7	64.00
3	Decane, 5,6-dimethyl-	38341	001636-43-7	64.00
4	Hexane, 2,3,5-trimethyl-	12708	001069-53-0	58.00
5	Hexyl octyl ether	72867	017071-54-4	53.00

BA



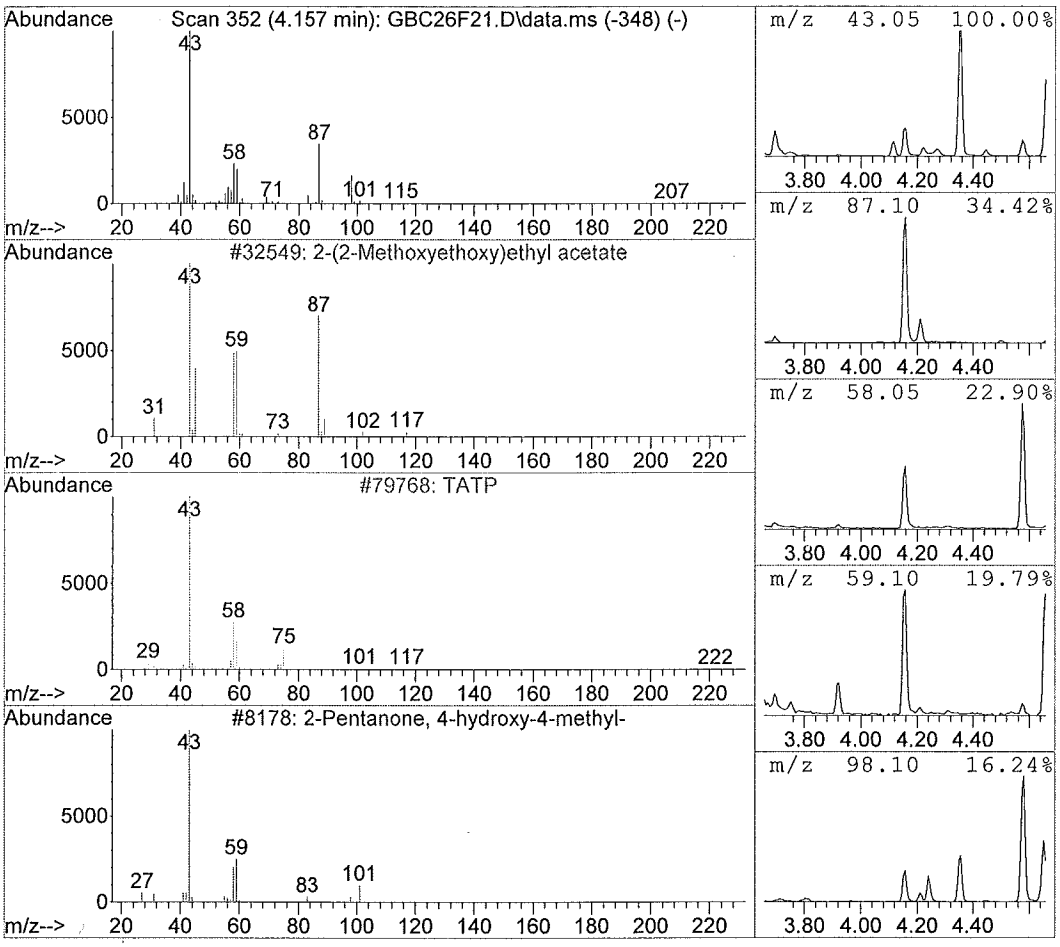
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	2.46 ug/ml	212873	1,4-Dichlorobenzene-d4	1727437

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-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	28.00
4	2-Hexanone, 5-methyl-	7495	000110-12-3	17.00
5	2-Nonanone	19930	000821-55-6	17.00



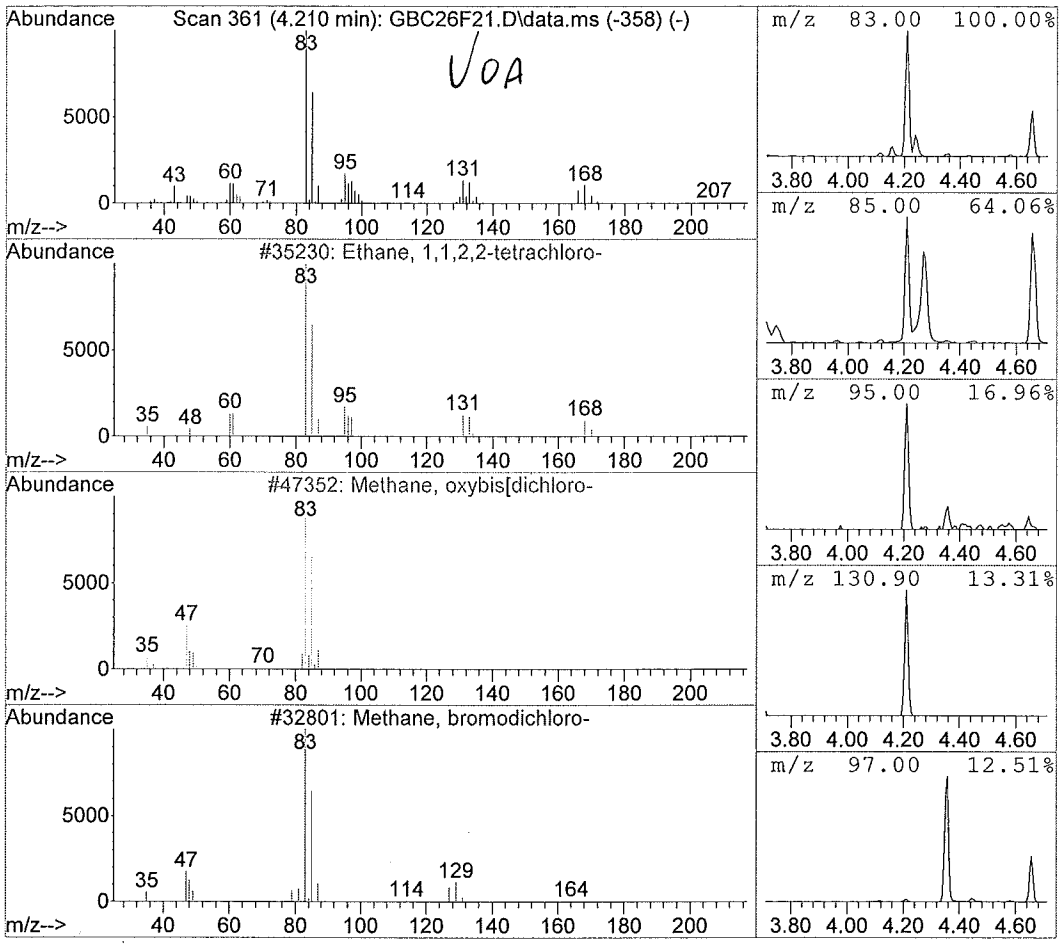
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.21	2.08 ug/ml	179815	1,4-Dichlorobenzene-d4	1727437

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	35230	000079-34-5	97.00
2	Methane, oxybis[dichloro-	47352	020524-86-1	50.00
3	Methane, bromodichloro-	32801	000075-27-4	50.00
4	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	40.00
5	Ethane, 1,2,2-trichloro-1,1-difluor	36914	000354-21-2	38.00



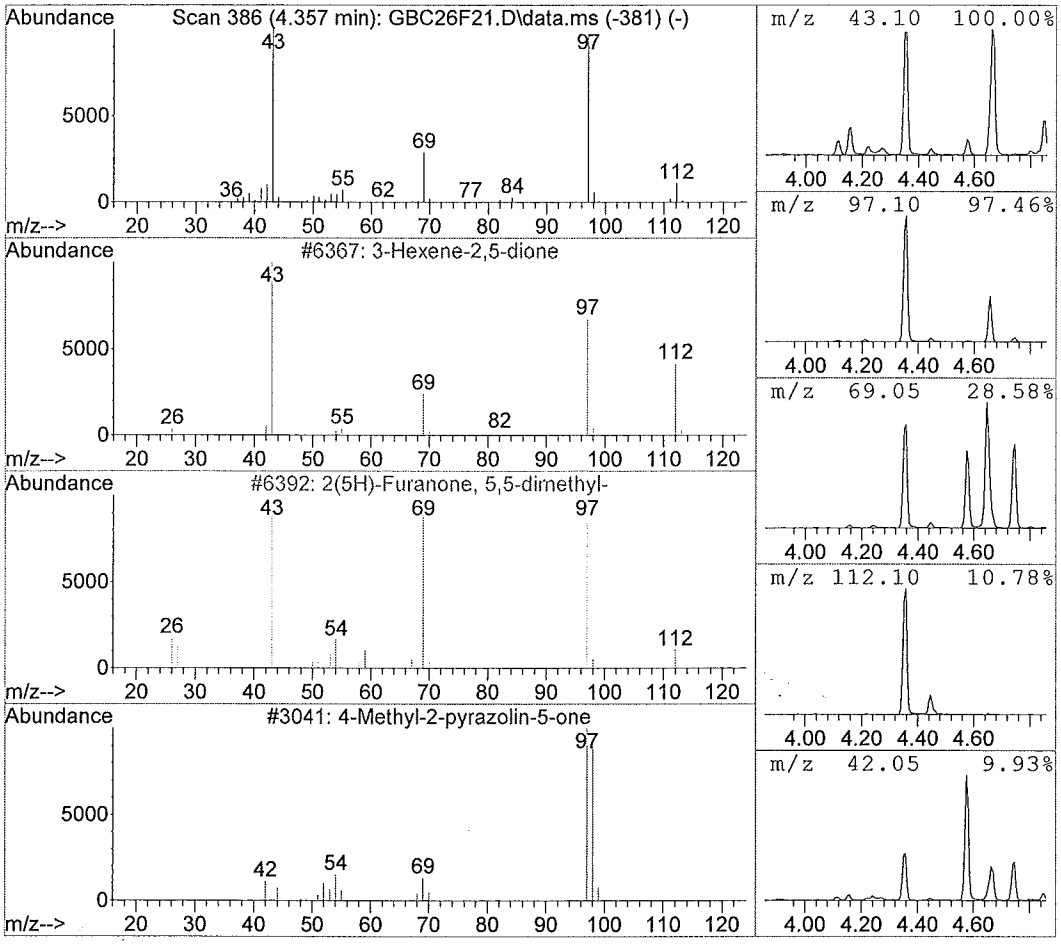
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	12.38 ug/ml	1069442	1,4-Dichlorobenzene-d4	1727437

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	4-Methyl-2-pyrazolin-5-one	3041	013315-23-6	36.00
4	3-Hexen-2-one, 5-methyl-	6518	005166-53-0	9.00
5	1-(Trimethylsilyl)-1-propyne	6339	006224-91-5	9.00



: 00507

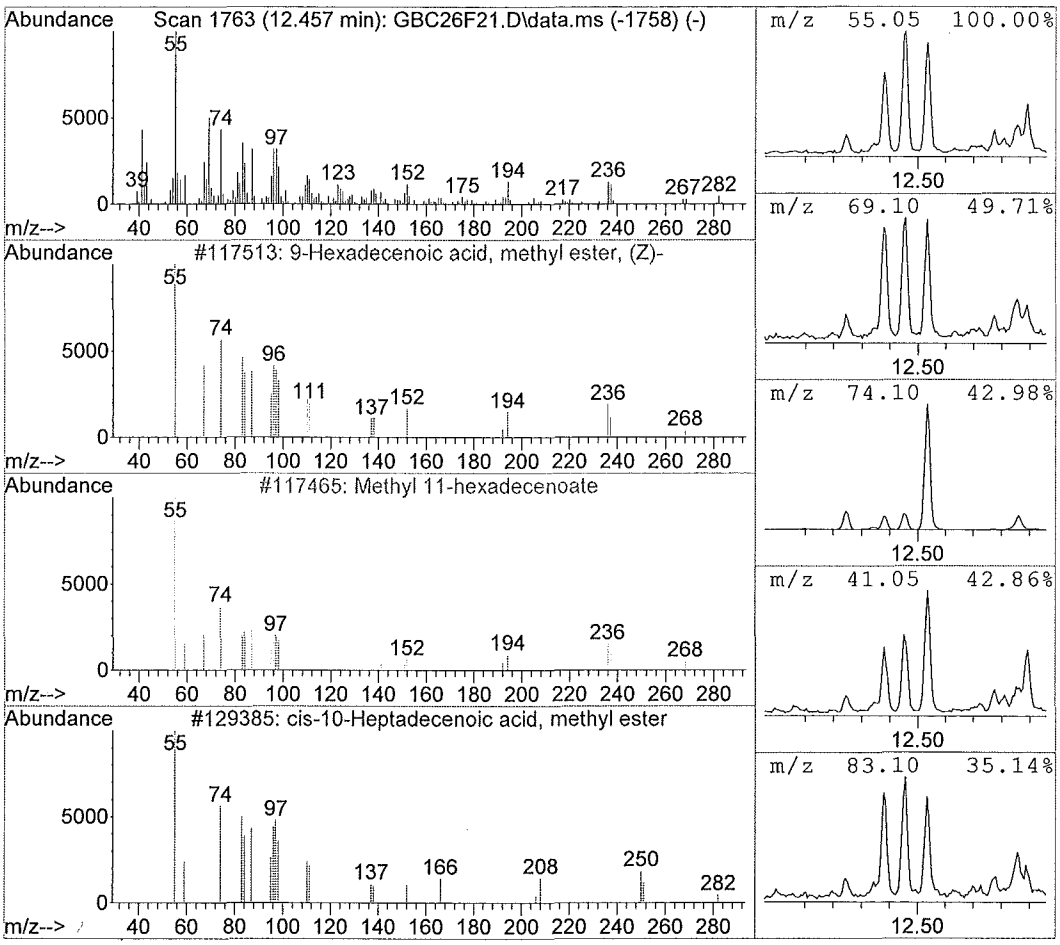
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.46	2.04 ug/ml	277762	Phenanthrene-d10	2717645

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Hexadecenoic acid, methyl ester,	117513	001120-25-8	99.00
2	Methyl 11-hexadecenoate	117465	1000336-35-5	98.00
3	cis-10-Heptadecenoic acid, methyl e	129385	1000333-62-1	95.00
4	Methyl hexadec-9-enoate	117464	010030-74-7	91.00
5	Methyl myristoleate	94118	056219-06-8	81.00



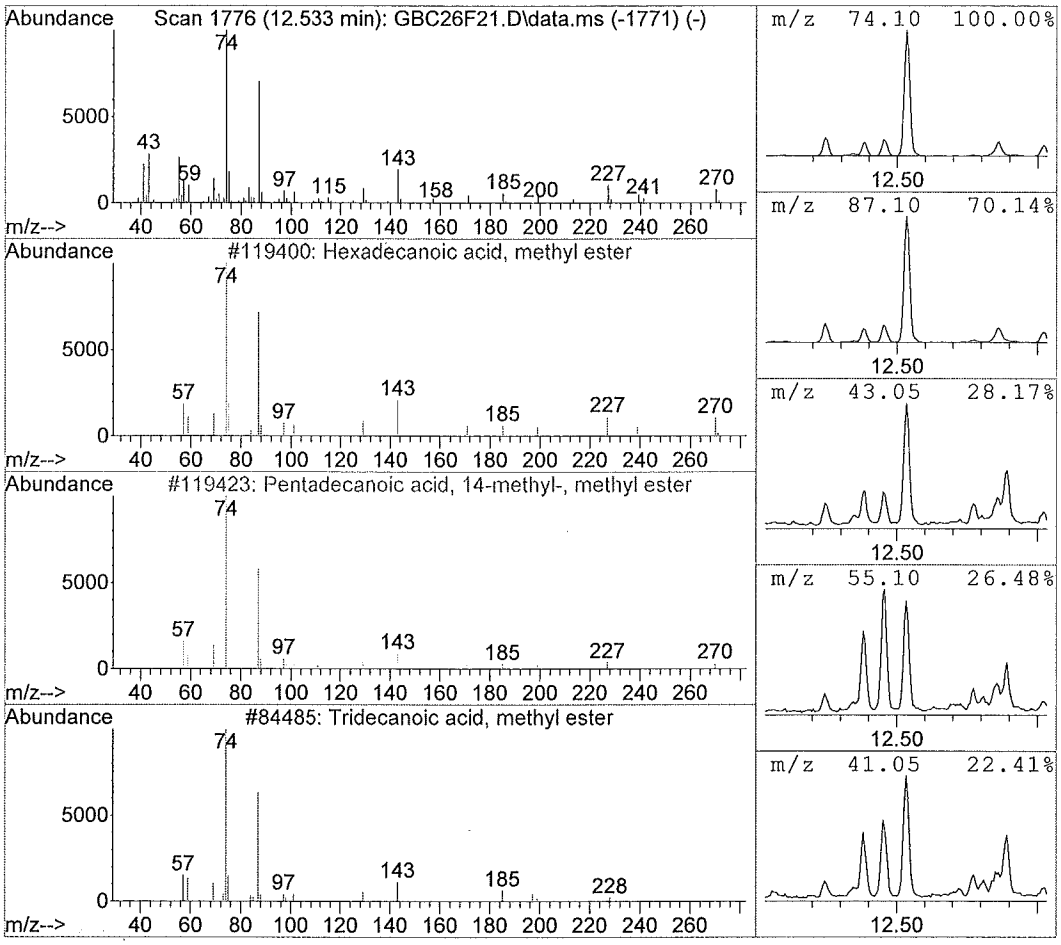
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.53	3.26 ug/ml	443245	Phenanthrene-d10	2717645

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, methyl ester	119400	000112-39-0	99.00
2	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	97.00
3	Tridecanoic acid, methyl ester	84485	001731-88-0	90.00
4	Methyl tetradecanoate	95860	000124-10-7	90.00
5	Pentadecanoic acid, methyl ester	107593	007132-64-1	80.00



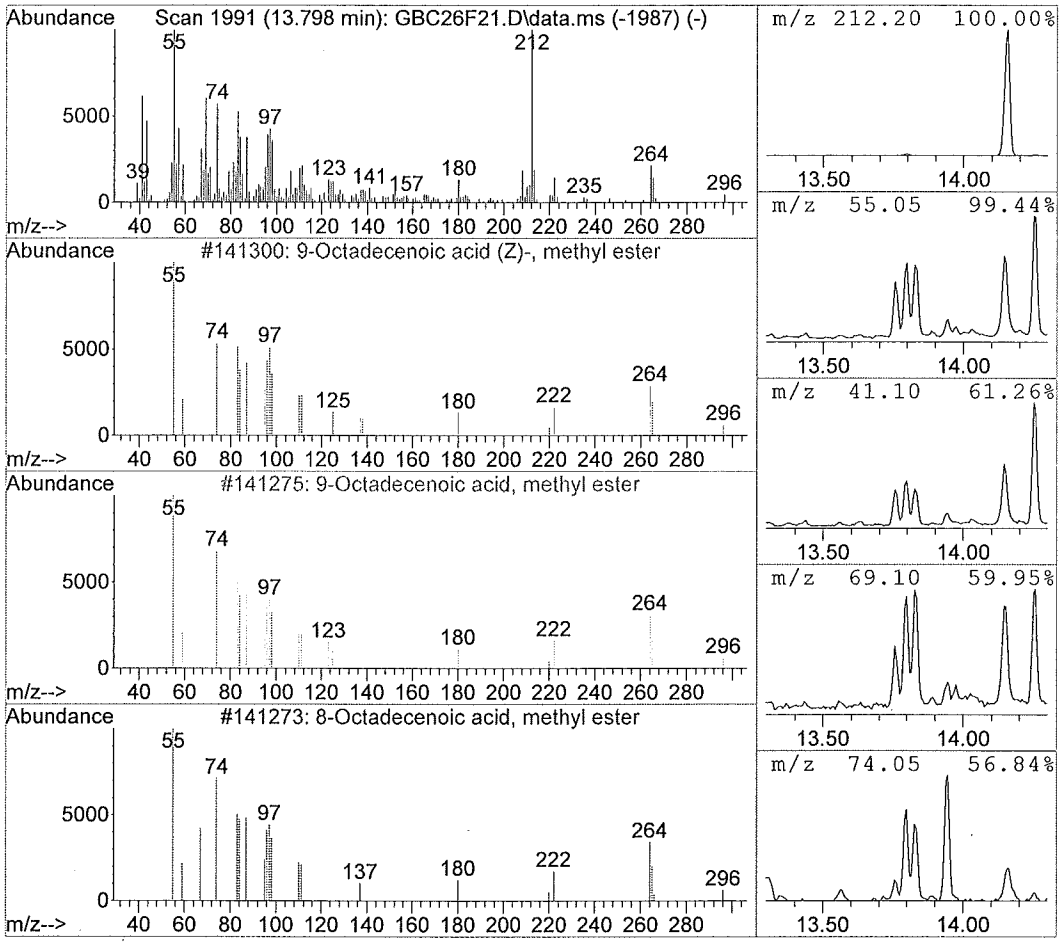
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.80	2.34 ug/ml	351559	Chrysene-d12	3005387

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenoic acid (Z)-, methyl es	141300	000112-62-9	99.00
2	9-Octadecenoic acid, methyl ester	141275	002462-84-2	99.00
3	8-Octadecenoic acid, methyl ester	141273	002345-29-1	99.00
4	9-Octadecenoic acid, methyl ester,	141306	001937-62-8	99.00
5	11-Octadecenoic acid, methyl ester	141291	052380-33-3	98.00



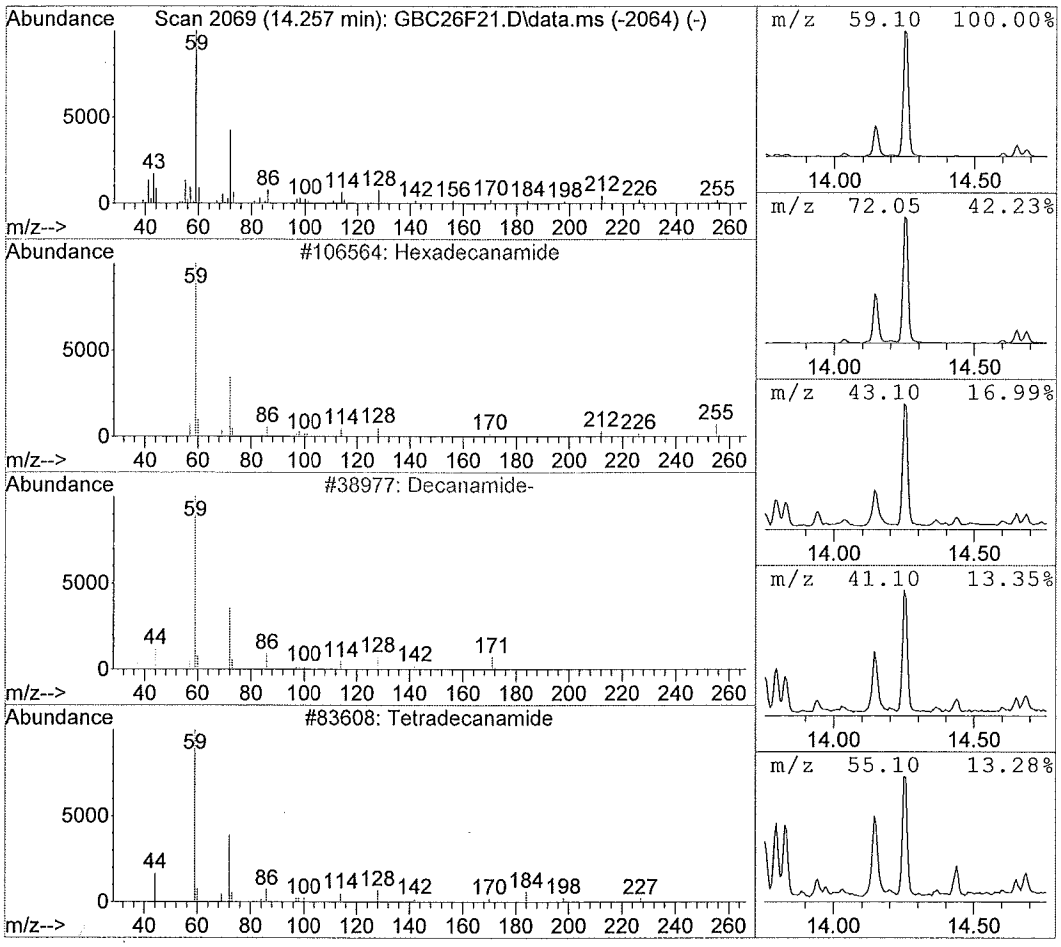
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.26	4.99 ug/ml	749391	Chrysene-d12	3005387

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	94.00
2	Decanamide-	38977	002319-29-1	90.00
3	Tetradecanamide	83608	000638-58-4	86.00
4	Dodecanamide	60439	001120-16-7	78.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00



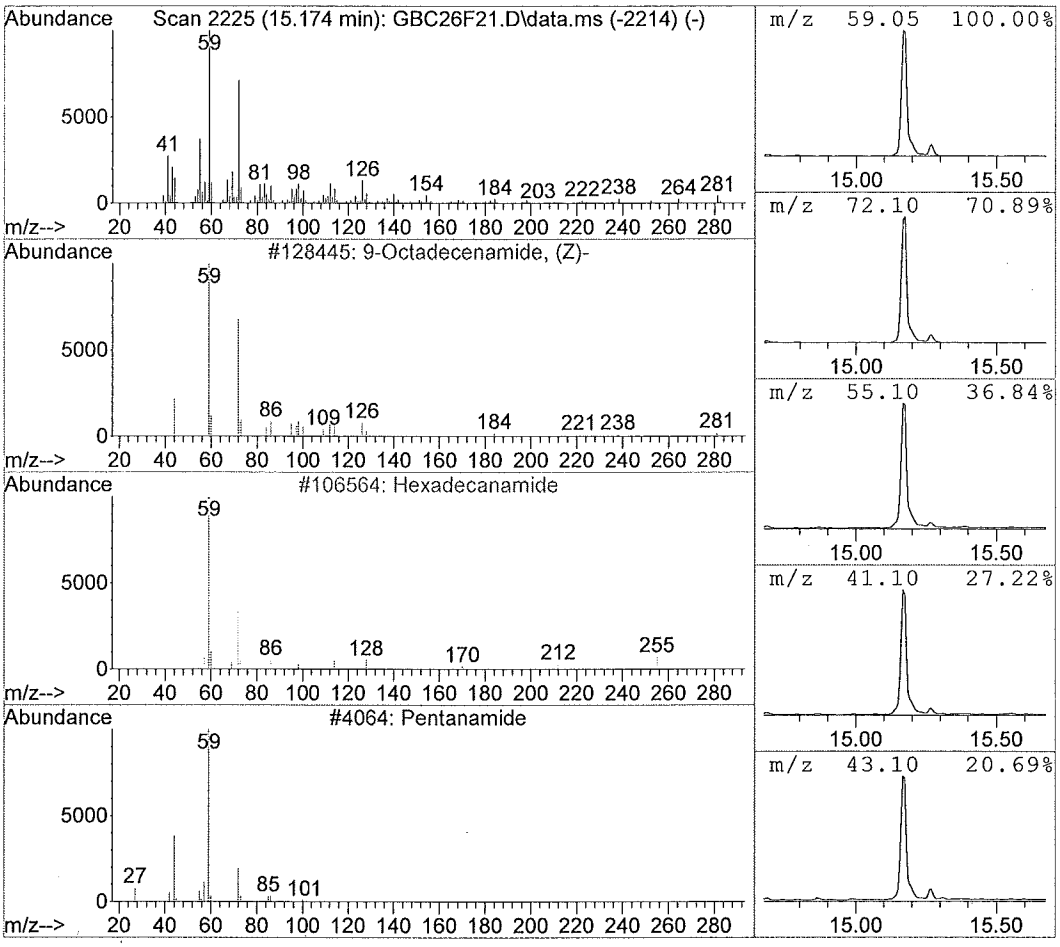
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	42.30 ug/ml	6356702	Chrysene-d12	3005387

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	Hexadecanamide	106564	000629-54-9	56.00
3	Pentanamide	4064	000626-97-1	53.00
4	Decanamide-	38977	002319-29-1	53.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	53.00



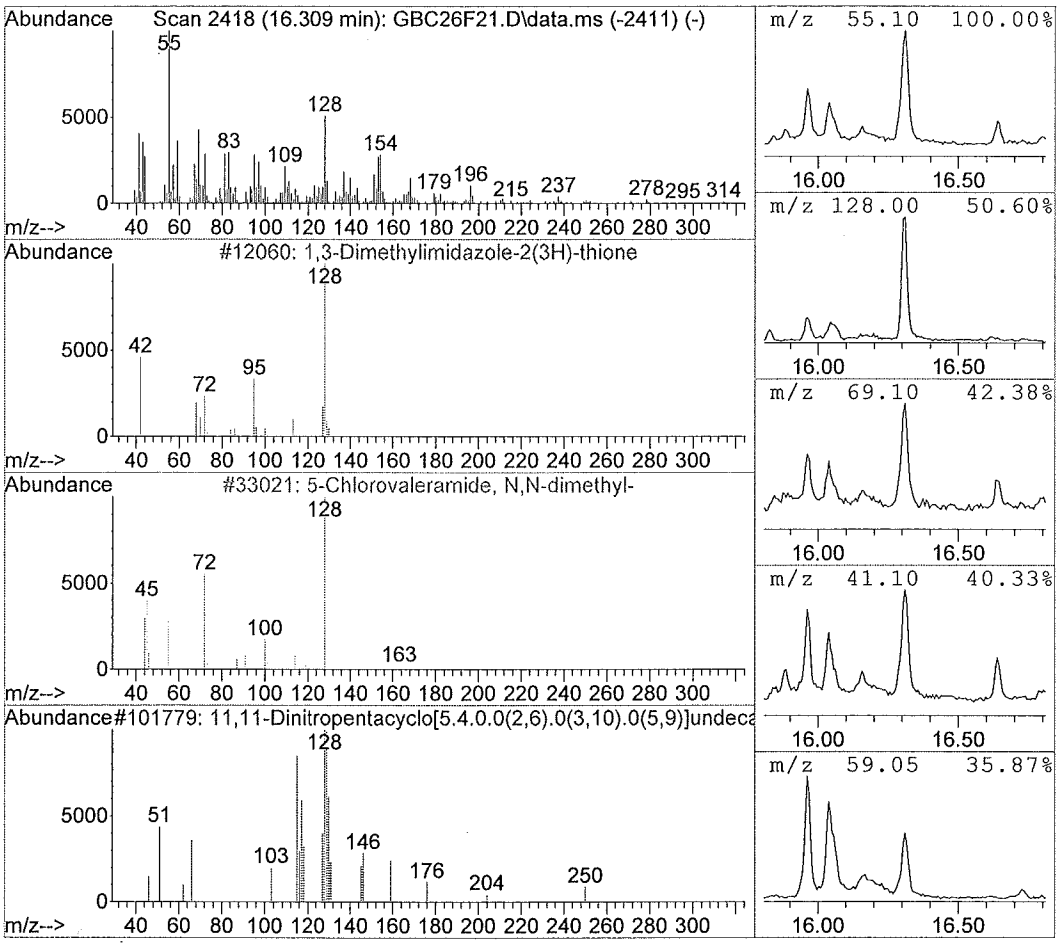
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.31	3.51 ug/ml	528161	Chrysene-d12	3005387

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Dimethylimidazole-2(3H)-thione	12060	006596-81-2	22.00
2	5-Chlorovaleramide, N,N-dimethyl-	33021	1000339-95-2	18.00
3	11,11-Dinitropentacyclo[5.4.0.0(2,6	101779	1000326-22-0	15.00
4	N-Methyl-9-aza-tricyclo[6.2.2.0(2,7	49531	013131-19-6	11.00
5	Cyclohexanecarboxamide	11823	001122-56-1	11.00



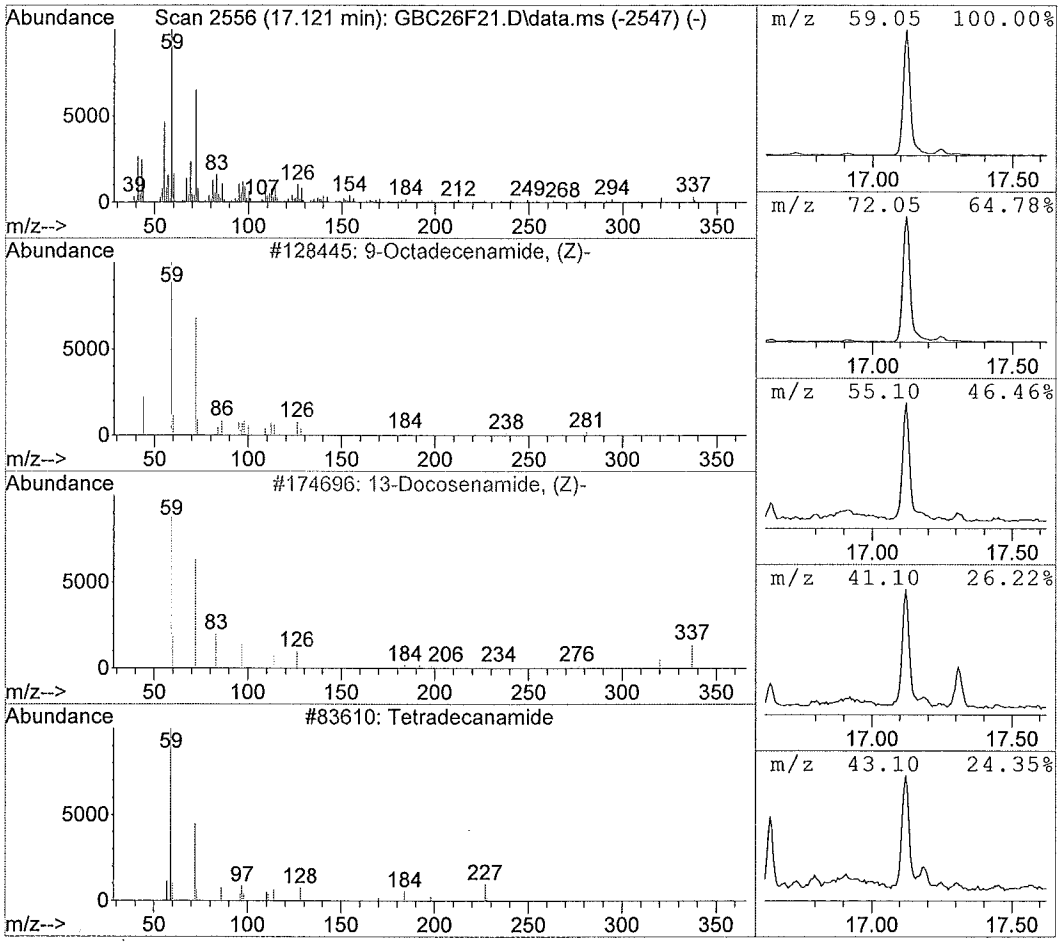
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	6.03 ug/ml	911674	Perylene-d12	3024154

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	90.00
3	Tetradecanamide	83610	000638-58-4	72.00
4	Octadecanamide	130204	000124-26-5	64.00
5	Dodecanamide	60440	001120-16-7	47.00



Library Search Compound Report

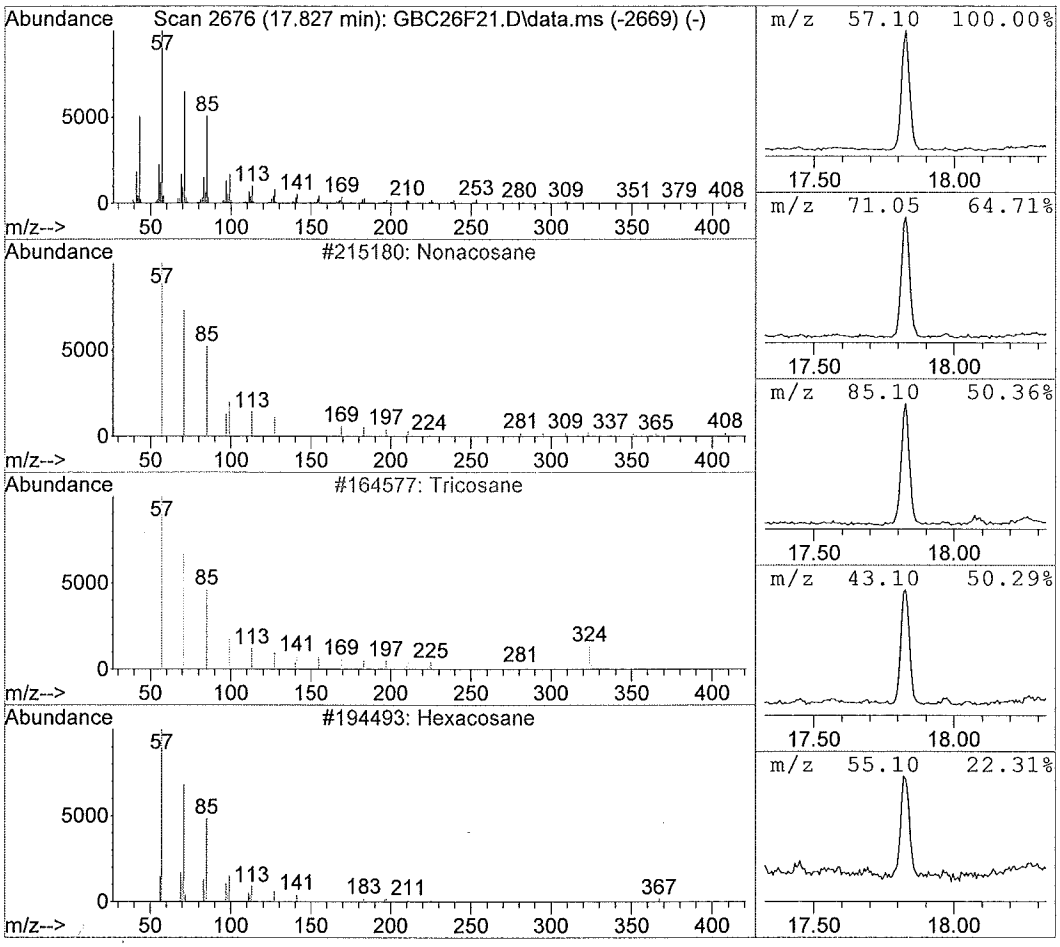
Data File : R:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	2.48 ug/ml	375136	Perylene-d12	3024154

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonacosane	215180	000630-03-5	94.00
2	Tricosane	164577	000638-67-5	93.00
3	Hexacosane	194493	000630-01-3	93.00
4	Tetratetracontane	241528	007098-22-8	91.00
5	Hentriacontane	223851	000630-04-6	91.00

SCA



Library Search Compound Report

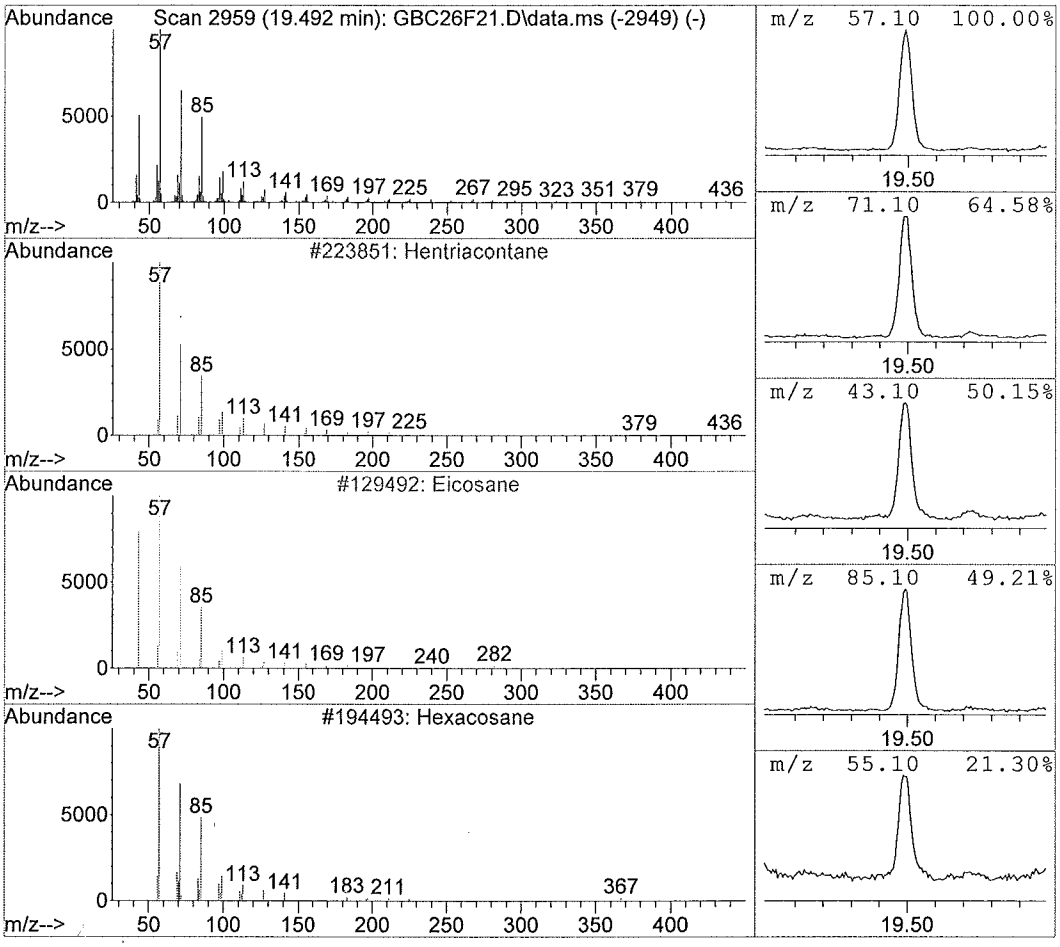
Data File : R:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.49	3.53 ug/ml	533830	Perylene-d12	3024154

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hentriacontane	223851	000630-04-6	99.00
2	Eicosane	129492	000112-95-8	97.00
3	Hexacosane	194493	000630-01-3	93.00
4	Octacosane	209565	000630-02-4	91.00
5	Tetracosane	175558	000646-31-1	91.00

SCA



00516

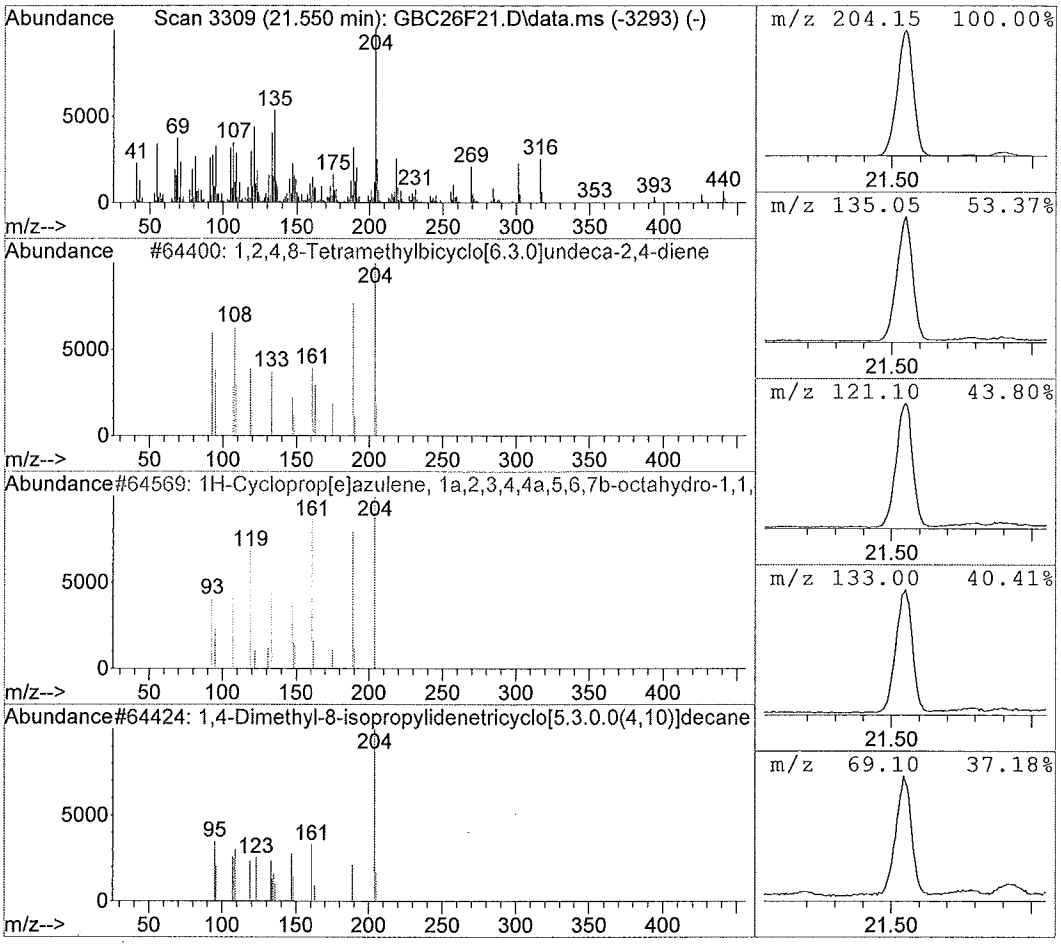
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.55	34.05 ug/ml	5148495	Perylene-d12	3024154

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	56.00
2	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64569	000489-40-7	46.00
3	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	46.00
4	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	45.00
5	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	43.00



Library Search Compound Report

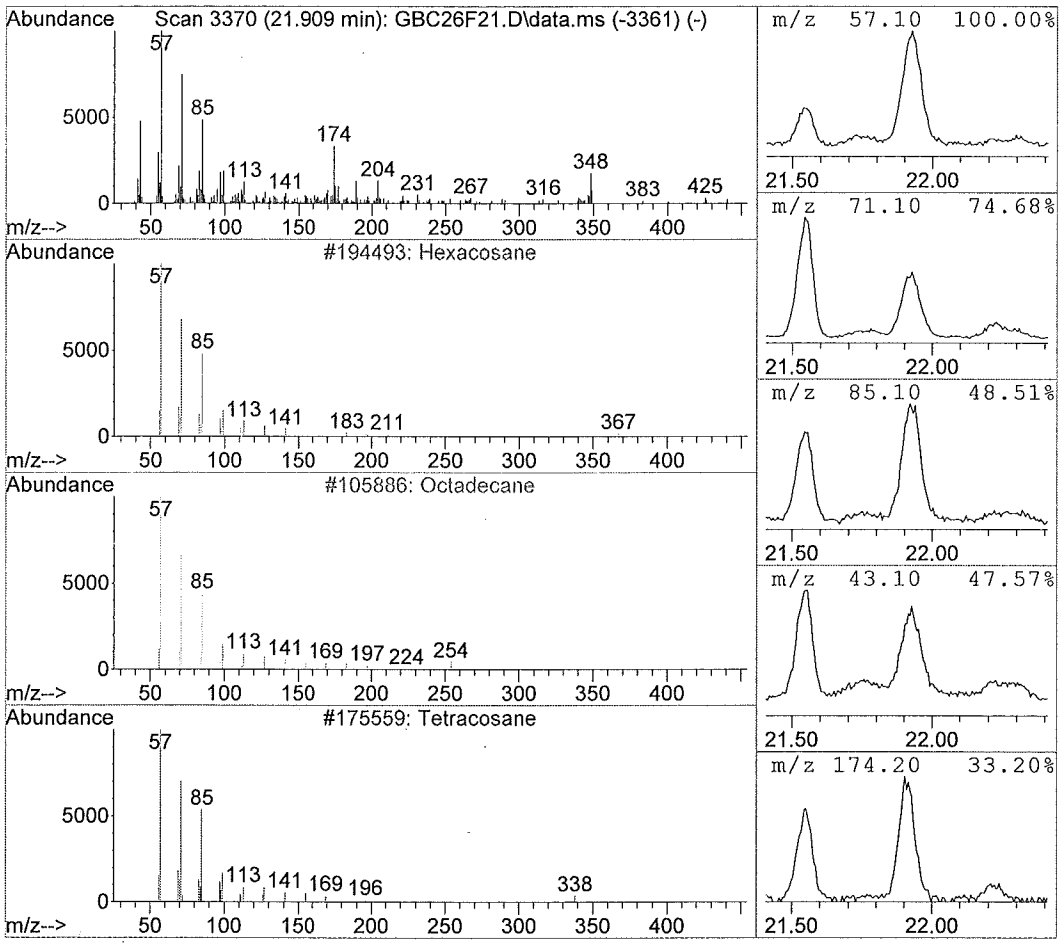
Data File : R:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.91	4.08 ug/ml	616864	Perylene-d12	3024154

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexacosane	194493	000630-01-3	70.00
2	Octadecane	105886	000593-45-3	70.00
3	Tetracosane	175559	000646-31-1	70.00
4	Heneicosane	141424	000629-94-7	62.00
5	Tetracosane, 11-decyl-	232379	055429-84-0	62.00

SCA



: 00518

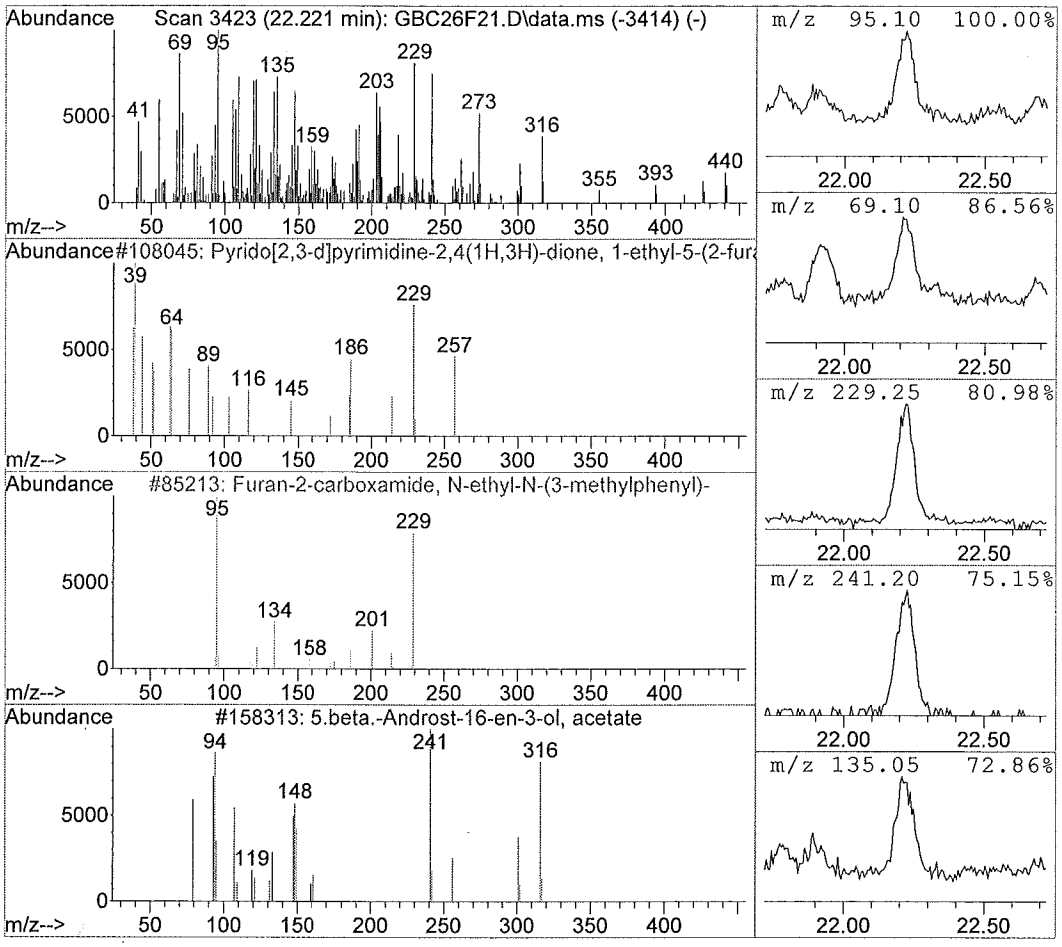
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.22	3.34 ug/ml	505164	Perylene-d12	3024154

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-	108045	1000362-82-6	90.00
2	Furan-2-carboxamide, N-ethyl-N-(3-m	85213	1000308-20-3	42.00
3	5.beta.-Androst-16-en-3-ol, acetate	158313	1000196-50-8	38.00
4	Adamantane, 1-(4-methylphenylamino)	95017	019984-39-5	25.00
5	8H-[1,2,4]Triazino[4,3-b][1,2,4]tri	94679	1000319-79-0	25.00



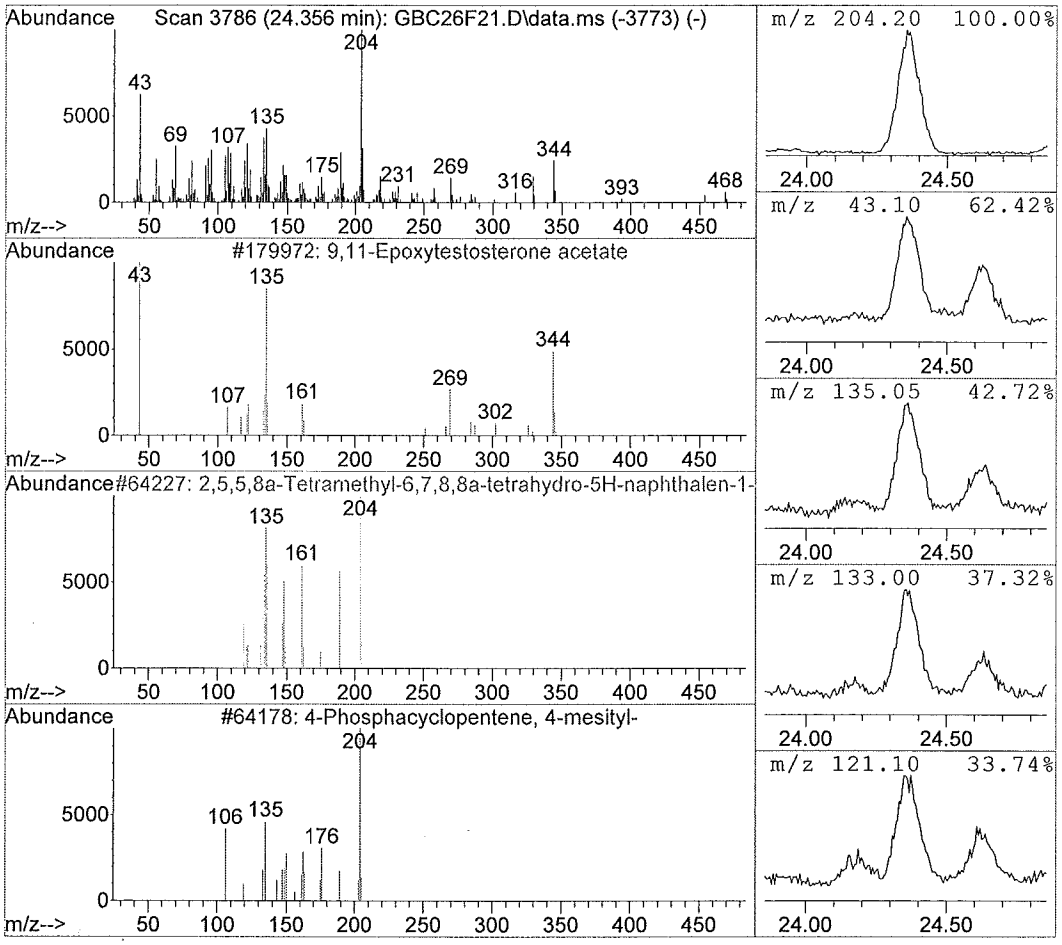
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.36	4.73 ug/ml	715155	Perylene-d12	3024154

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9,11-Epoxytestosterone acetate	179972	1000128-13-7	53.00
2	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	52.00
3	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	52.00
4	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	49.00
5	Coumarin, 3,4-dihydro-4,4,6,8-tetra	64132	249629-60-5	46.00



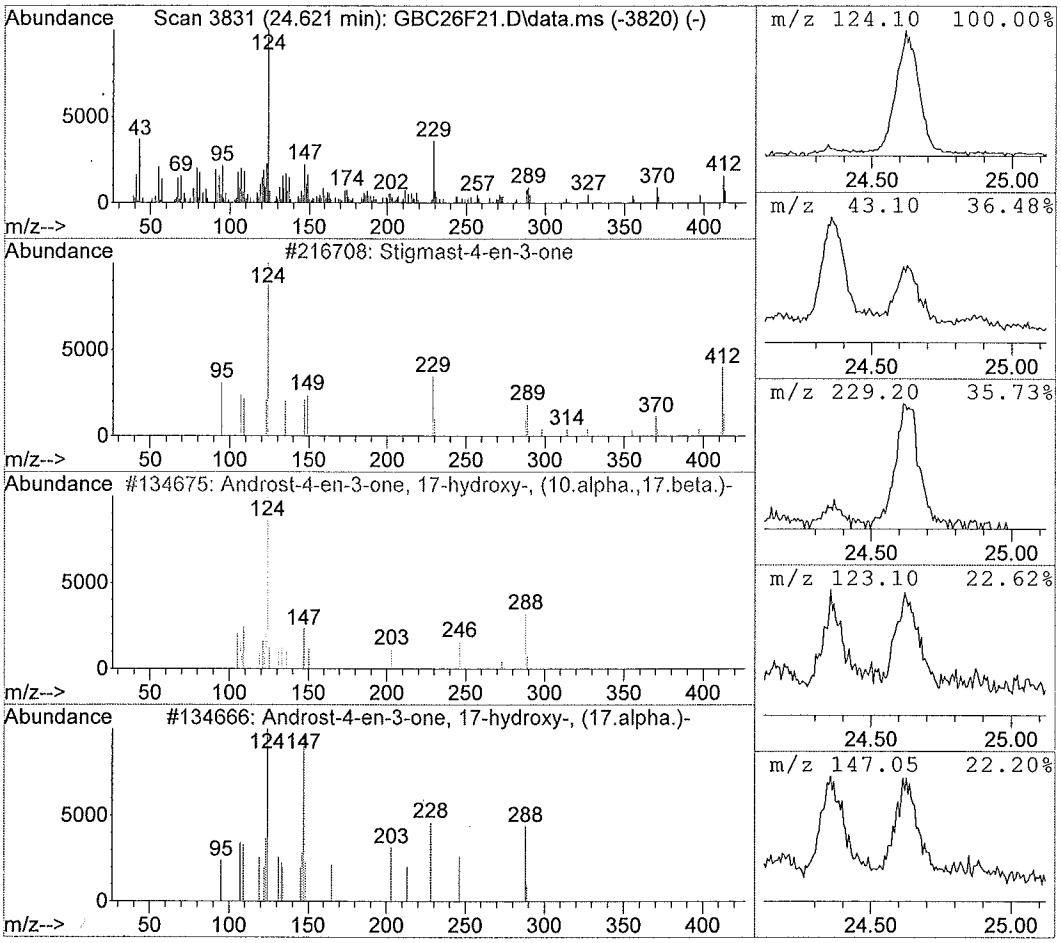
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.62	3.47 ug/ml	524970	Perylene-d12	3024154

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmast-4-en-3-one	216708	001058-61-3	87.00
2	Androst-4-en-3-one, 17-hydroxy-, (1	134675	000604-39-7	78.00
3	Androst-4-en-3-one, 17-hydroxy-, (1	134666	000481-30-1	50.00
4	Pyrazine, 2-methoxy-3-methyl-	10348	002847-30-5	49.00
5	Testosterone	134628	000058-22-0	46.00



1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L79

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293022

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GBC27F22

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/03/2015

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.:

F9L79

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293022

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GBC27F22

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/03/2015

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	21.	J
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO:

F9L79

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293022

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GBC27F22

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/03/2015

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 2,2-dimethoxy-	2.14	590	JB
02	625-86-5	Furan, 2,5-dimethyl-	2.50	580	JN
03		Unknown 2-Pentanone, 4-hydroxy-	3.39	310	J
04		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.61	14000	J
05		Unknown 2(5H)-Furanone, 5,5-dimethyl-	4.35	320	J
06		Unknown 2-Chloro-5-hydroxy-2,4,6-cycloheptatrien	7.26	120	J
07	638-58-4	Tetradecanamide	12.89	92.	JN
08	629-54-9	Hexadecanamide	14.25	270	JNB
09	301-02-0	9-Octadecenamide, (Z)-	15.17	1900	JNB
10	629-54-9	Hexadecanamide	15.27	94.	JN
11		Unknown 9-Octadecenamide, (Z)-	15.96	130	JB
12		Unknown 9-Octadecenamide, (Z)-	16.04	110	JB
13		Unknown 2,6-Decadienoic acid, 3-methyl-, ethyl e	16.31	220	J
14	112-84-5	13-Docosenamide, (Z)-	17.12	420	JN
15		Unknown 2H-Cyclopentacyclooctene, 4,5,6,7,8,9-he	21.54	1500	J
16		Unknown 2,3-2H-Quinolin-2-one, 3,3,4,6-tetrameth	21.90	110	J
17		Unknown Spiro[4.5]dec-7-ene, 1,8-dimethyl-4-(1-m	22.22	150	J
18		Unknown (1S,6R,9S,10S)-5,5,9,10-Tetramethyltricy	23.22	130	J
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	170	J

[2] EPA-designated Registry Number.

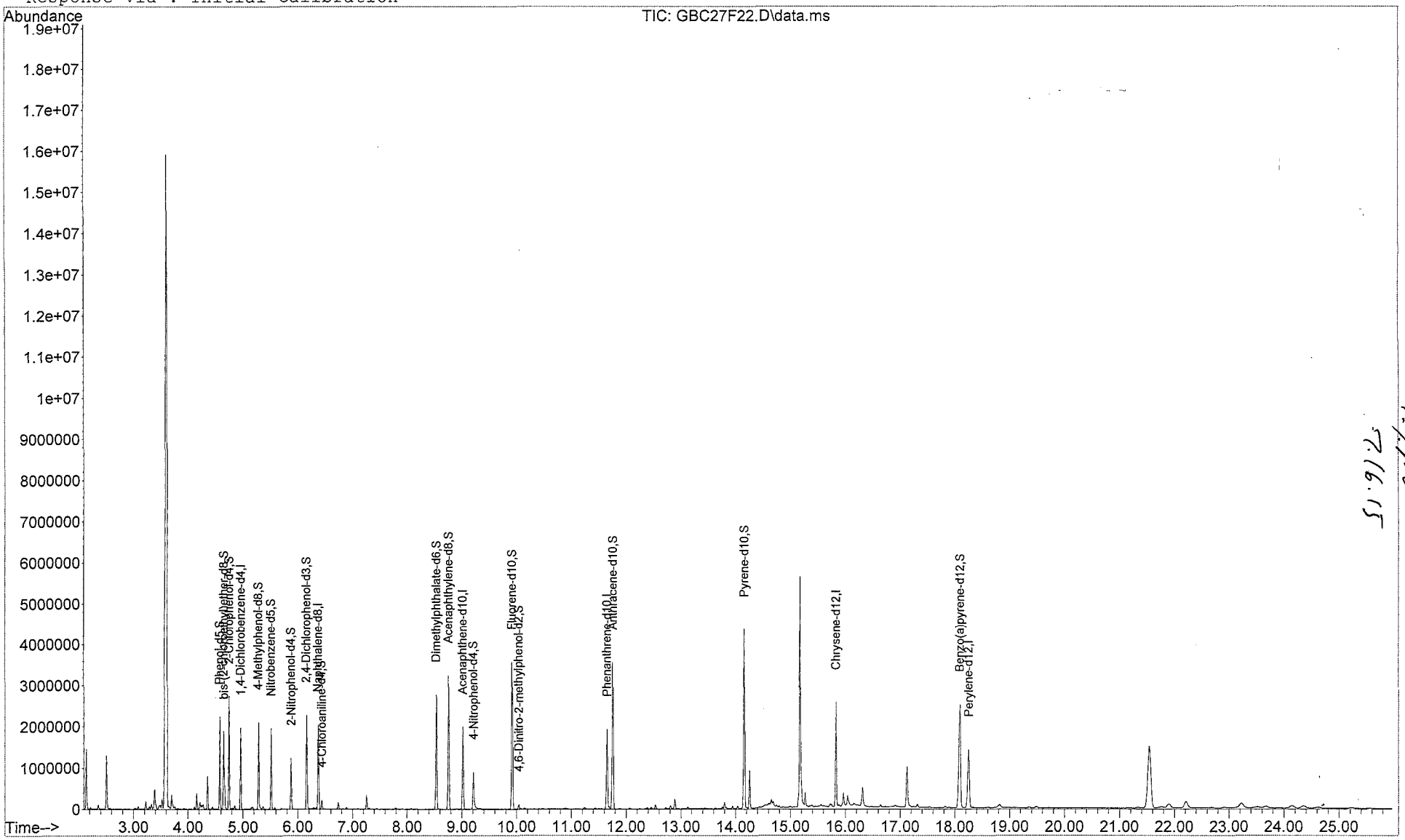
Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC27F22.D
Acq On : 06/03/2015 03:28
Sample : 1514293022 F9L79
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 23
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 14:48:22 2015 Results File: GSOM01D4.RES

Method : R:\G\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 : R:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:48:22 2015 Results File: GSOM01D4.RES

Method : R:\G\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	330634	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1247750	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	695642	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1132568	20.00 ug/ml
73) Chrysene-d12	15.83	240	1083754	20.00 ug/ml
81) Perylene-d12	18.25	264	1051770	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.58	99	863610	37.456ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	421490	29.856ug/mL
7) 2-Chlorophenol-d4	4.75	132	834410	36.860ug/ml
13) 4-Methylphenol-d8	5.28	113	528383	29.435ug/mL
17) Nitrobenzene-d5	5.51	128	375200	35.840ug/ml
21) 2-Nitrophenol-d4	5.87	143	318962	27.340ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	615291	36.001ug/mL
28) 4-Chloroaniline-d4	6.43	131	91582	4.940ug/mL
42) Dimethylphthalate-d6	8.53	166	1833290	43.334ug/mL
45) Acenaphthylene-d8	8.76	160	2178153	38.578ug/mL
50) 4-Nitrophenol-d4	9.21	143	310546	34.471ug/mL
57) Fluorene-d10	9.92	176	1536173	41.805ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	28067	3.773ug/mL
69) Anthracene-d10	11.76	188	2373823	41.434ug/mL
75) Pyrene-d10	14.16	212	2048075	41.568ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1912819	40.094ug/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)

: 00526

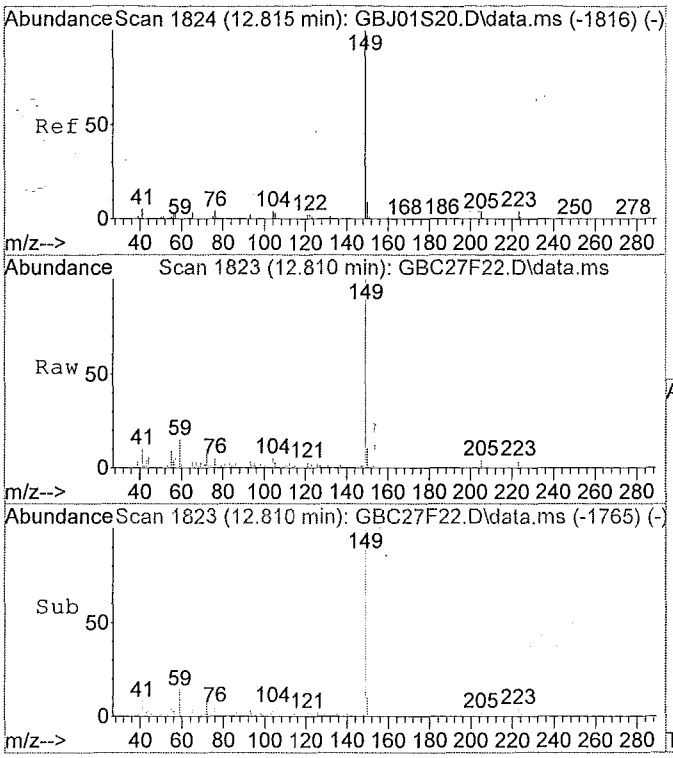
Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:48:22 2015 Results File: GSOM01D4.RES

Method : R:\G\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	12.81	149	43270	0.554ug/ml	98
72)	Fluoranthene	0.00	202		Not Detected	
74)	Pyrene	0.00	202		Not Detected	
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	0.00	228		Not Detected	
79)	Chrysene	0.00	228		Not Detected	
80)	Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	0.00	252		Not Detected	
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	0.00	252		Not Detected	
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

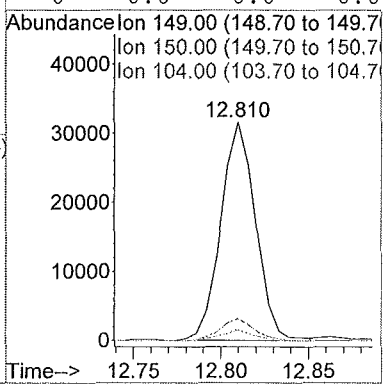
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#71
Di-n-butylphthalate
Concen: 0.55 ug/ml
RT: 12.81 min Scan# 1823
Delta R.T. -0.01 min
Lab File: GBC27F22.D
Acq: 06/03/2015 03:28

Tgt Ion:149 Resp: 43270

Ion	Ratio	Lower	Upper
149	100		
150	9.6	6.4	11.8
104	4.2	3.6	6.6
0	0.0	0.0	0.0



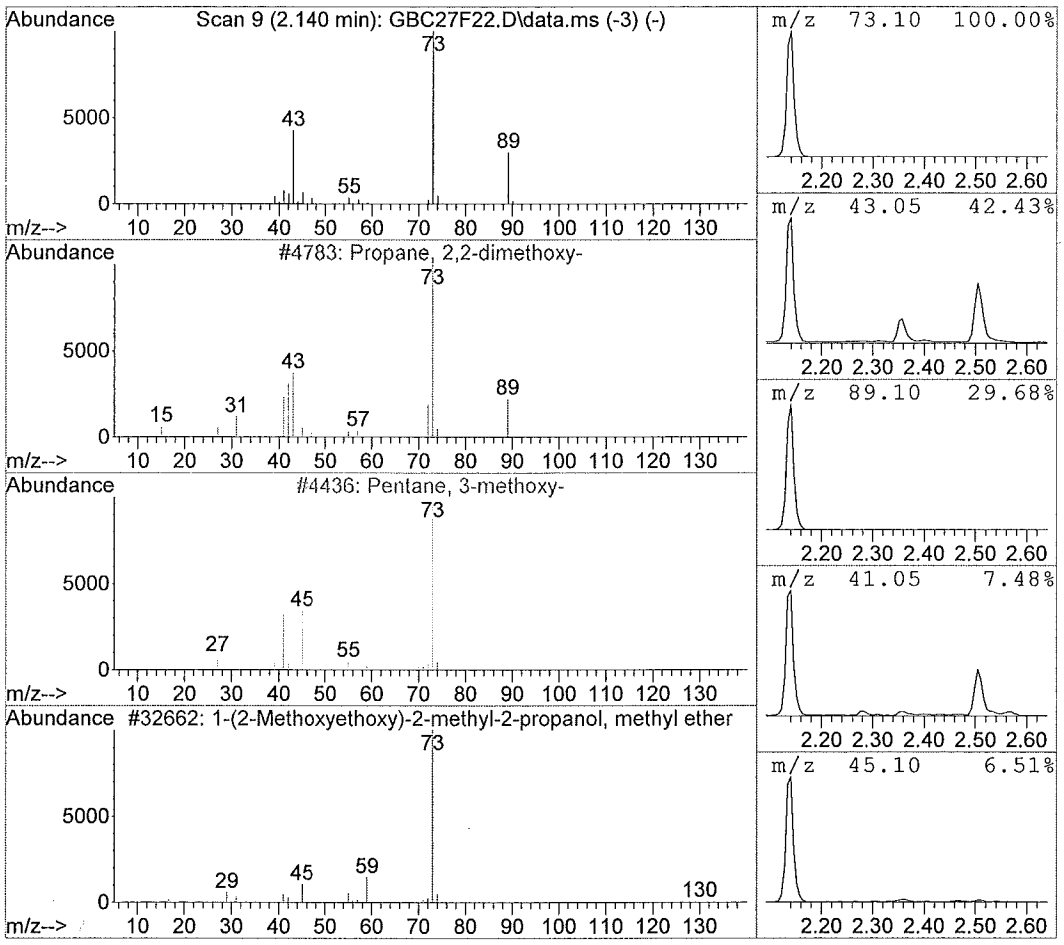
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.14	15.60 ug/ml	1445793	1,4-Dichlorobenzene-d4	1853445

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 2,2-dimethoxy-	4783	000077-76-9	56.00
2	Pentane, 3-methoxy-	4436	036839-67-5	9.00
3	1-(2-Methoxyethoxy)-2-methyl-2-prop	32662	1000364-24-4	9.00
4	Propane, 2-methoxy-2-methyl-	2138	001634-04-4	9.00
5	2-Hydroxy-2-methylbutyric acid	8706	003739-30-8	9.00



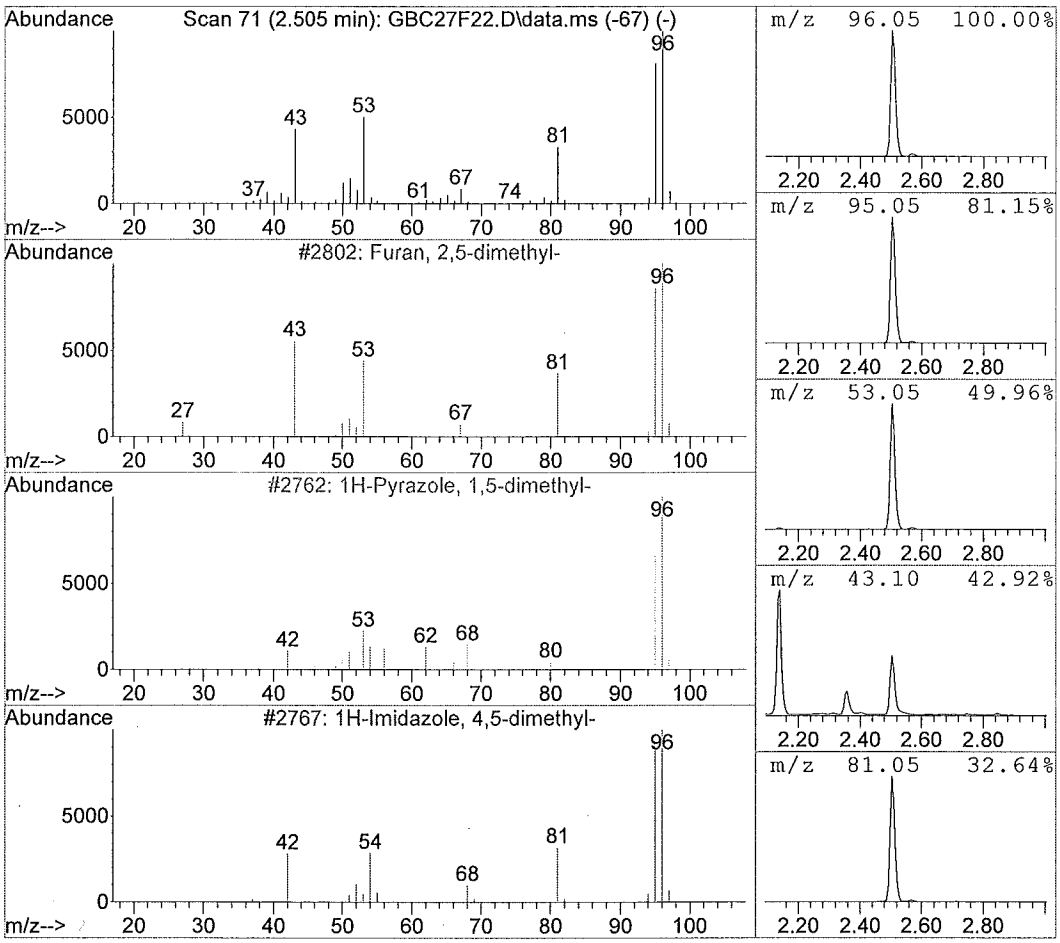
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	15.31 ug/ml	1418948	1,4-Dichlorobenzene-d4	1853445

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Furan, 2,5-dimethyl-	2802	000625-86-5	95.00
2	1H-Pyrazole, 1,5-dimethyl-	2762	000694-31-5	43.00
3	1H-Imidazole, 4,5-dimethyl-	2767	002302-39-8	38.00
4	3,5-Dimethylpyrazole	2749	000067-51-6	38.00
5	1H-Pyrazole, 1,3-dimethyl-	2761	000694-48-4	38.00



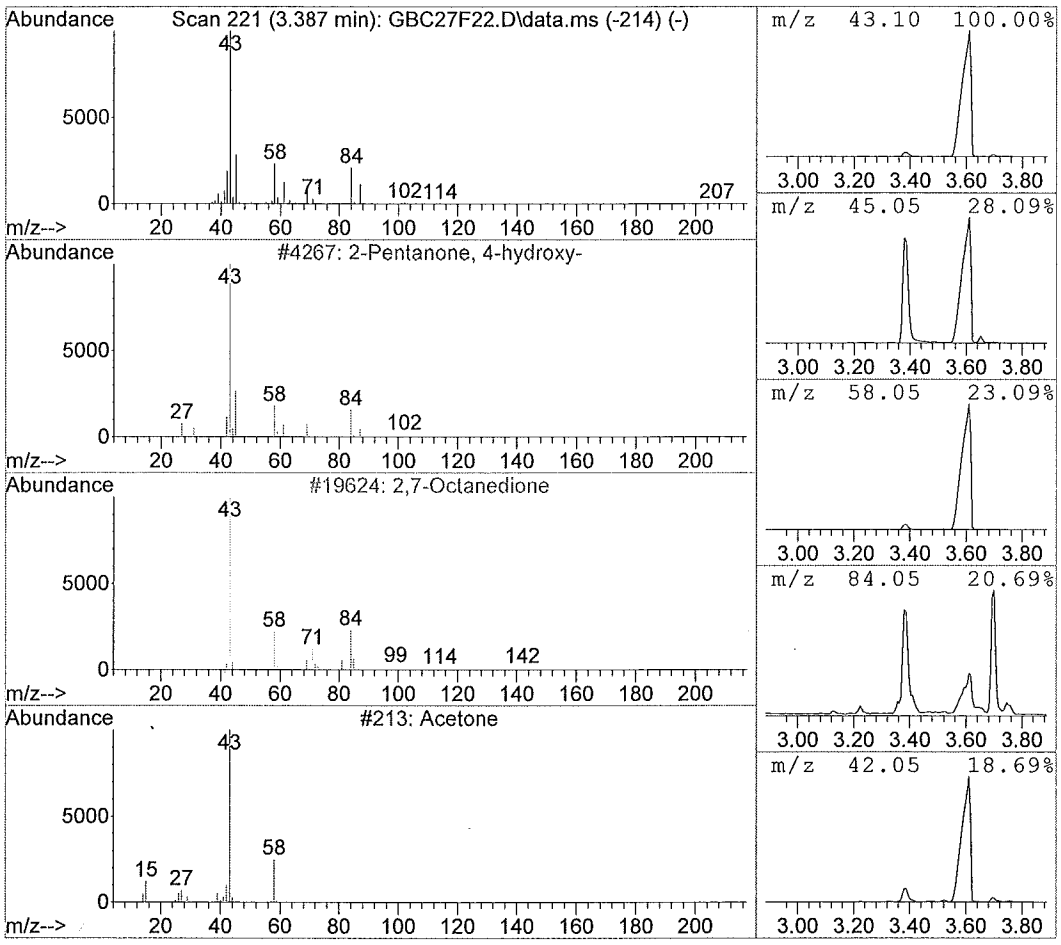
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.39	8.13 ug/ml	753459	1,4-Dichlorobenzene-d4	1853445

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	74.00
2	2,7-Octanedione	19624	001626-09-1	25.00
3	Acetone	213	000067-64-1	16.00
4	Isopropyl acetate	4253	000108-21-4	12.00
5	Ethanol, 2-methoxy-, acetate	8703	000110-49-6	12.00



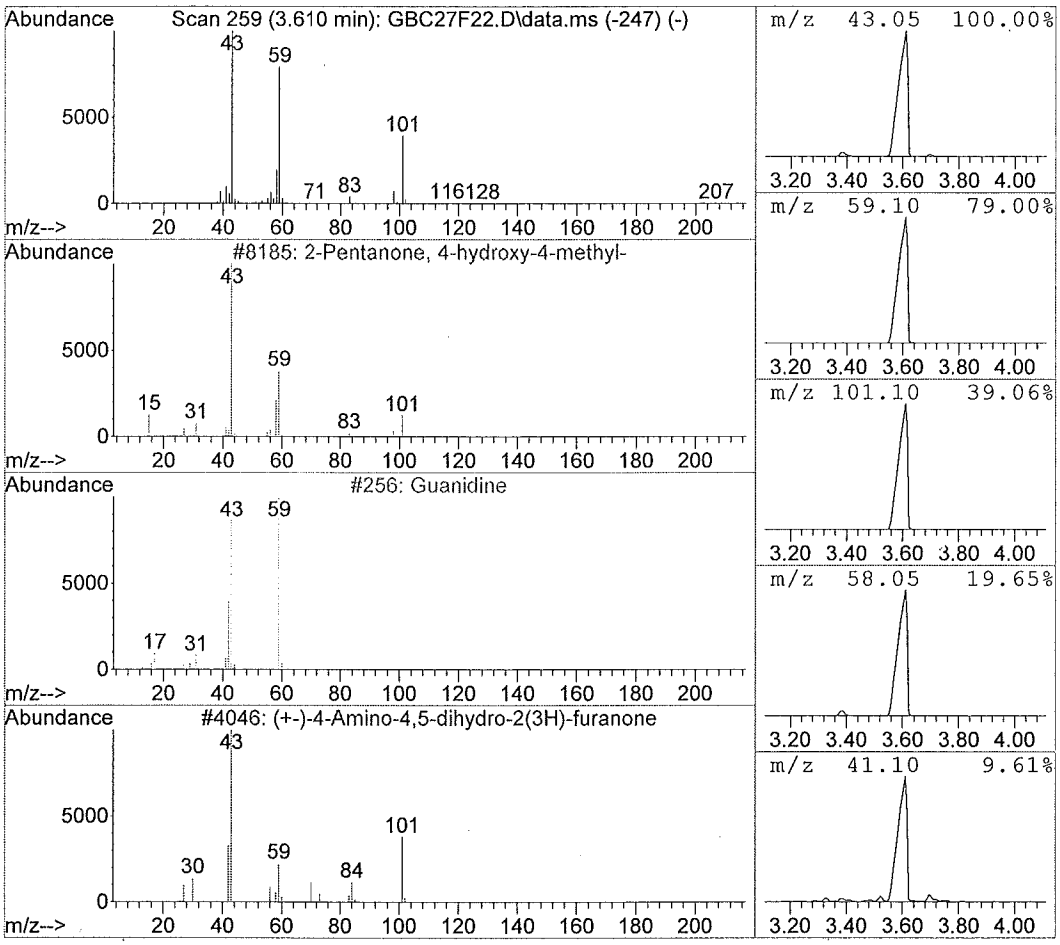
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.61	377.04 ug/ml	34941550	1,4-Dichlorobenzene-d4	1853445

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	50.00
2	Guanidine	256	000113-00-8	43.00
3	(+-)-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



Library Search Compound Report

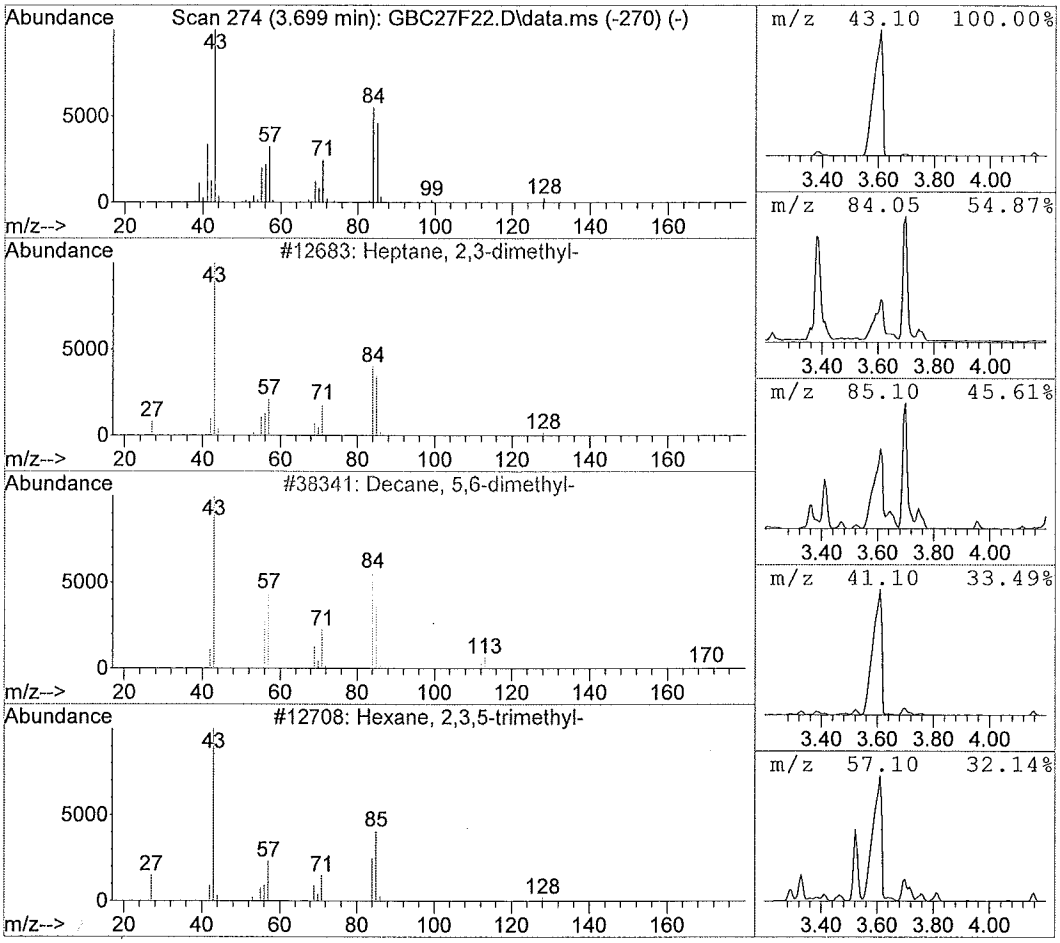
Data File : R:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	4.62 ug/ml	428133	1,4-Dichlorobenzene-d4	1853445

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12683	003074-71-3	87.00
2	Decane, 5,6-dimethyl-	38341	001636-43-7	72.00
3	Hexane, 2,3,5-trimethyl-	12708	001069-53-0	64.00
4	Hexane, 3-ethyl-	7621	000619-99-8	53.00
5	Nonane, 4-ethyl-5-methyl-	38351	001632-71-9	53.00

BA



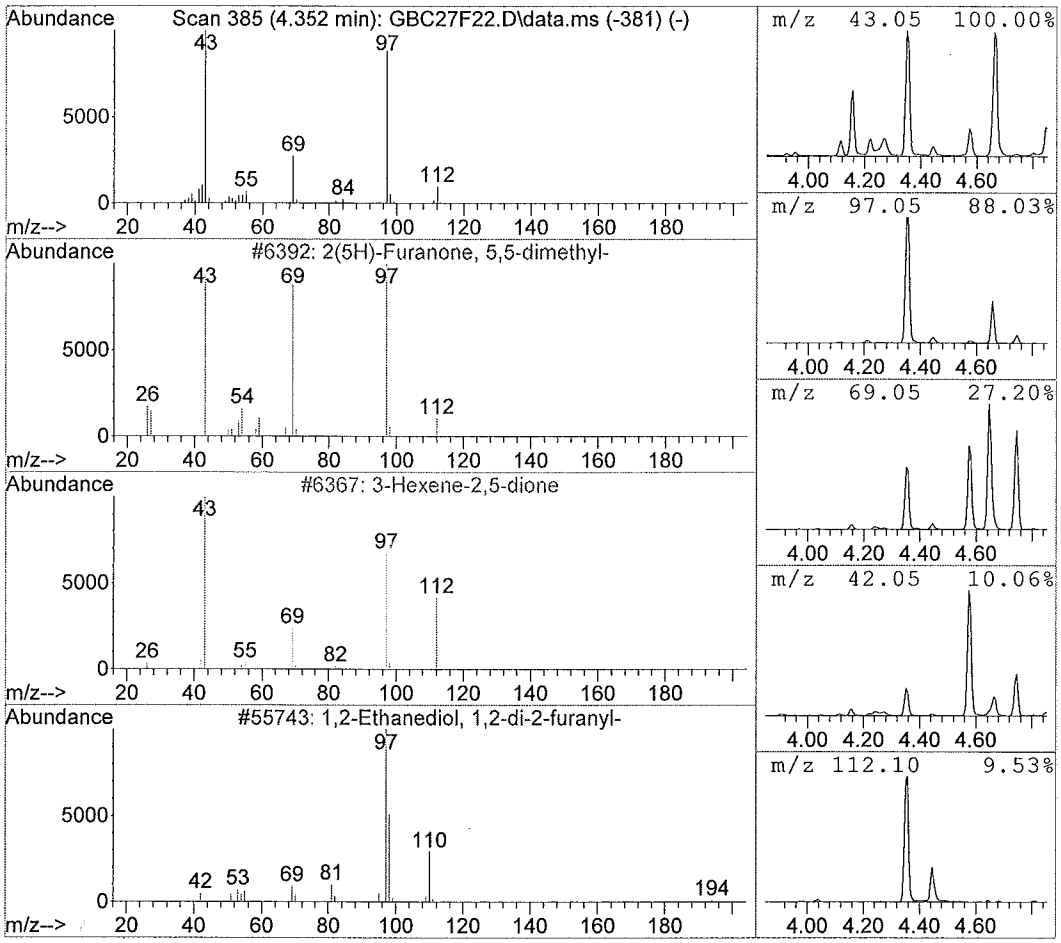
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	8.55 ug/ml	792470	1,4-Dichlorobenzene-d4	1853445

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	64.00
2	3-Hexene-2,5-dione	6367	004436-75-3	64.00
3	1,2-Ethanediol, 1,2-di-2-furanyl-	55743	004464-77-1	33.00
4	5-Hexen-2-one	3159	000109-49-9	9.00
5	Cyclohexane, 1,3-dimethyl-, cis-	6801	000638-04-0	9.00



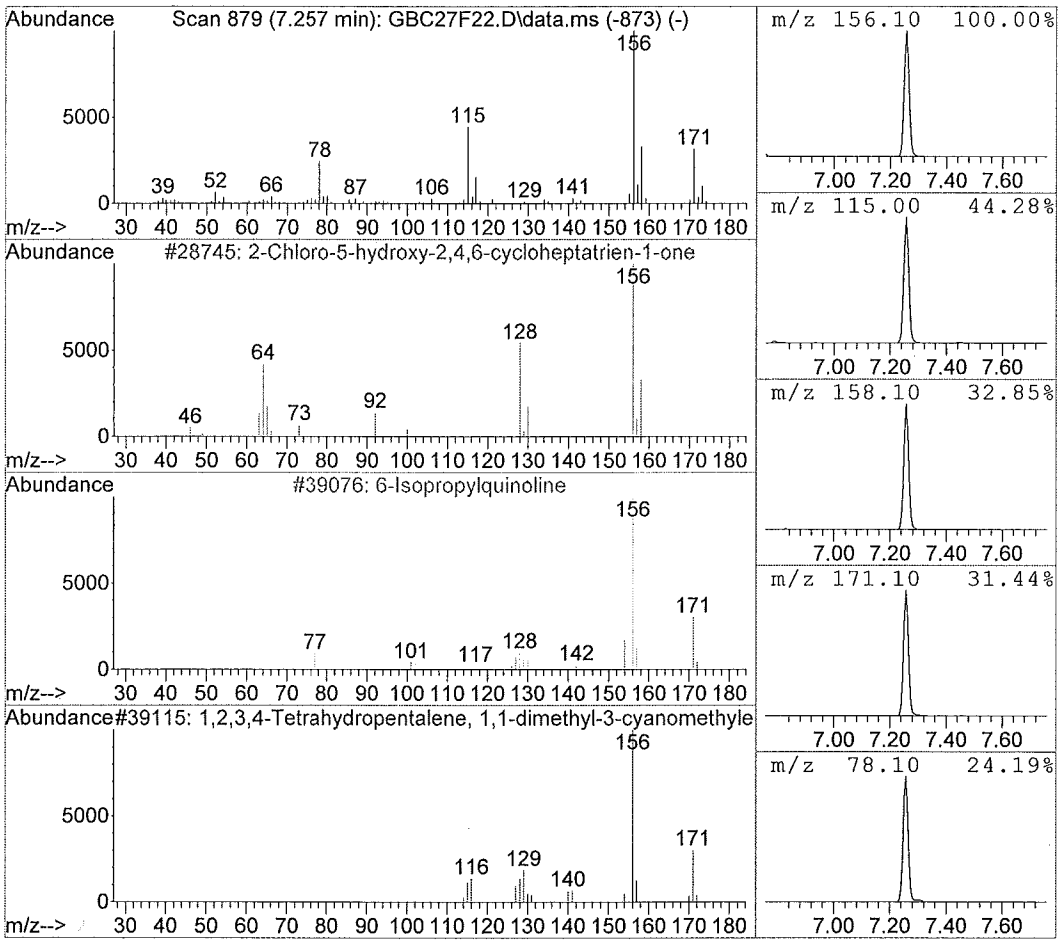
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.26	3.30 ug/ml	400374	Naphthalene-d8	2429273

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Chloro-5-hydroxy-2,4,6-cyclohepta	28745	007009-16-7	43.00
2	6-Isopropylquinoline	39076	000135-79-5	38.00
3	1,2,3,4-Tetrahydropentalene, 1,1-di	39115	1000217-18-6	37.00
4	Benzene, 2,5-cyclohexadien-1-yl-	28511	004794-05-2	28.00
5	Tebuthiuron	84860	034014-18-1	25.00



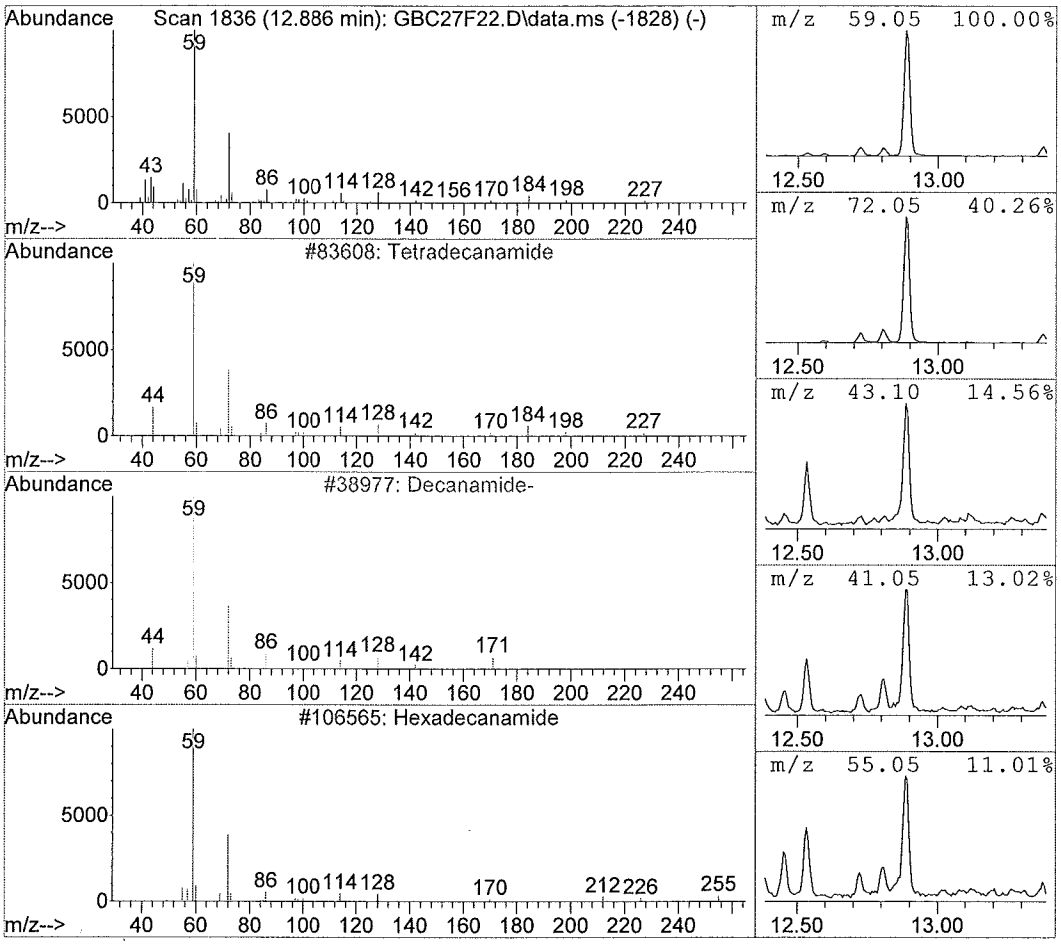
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.89	2.44 ug/ml	350130	Phenanthrene-d10	2865934

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83608	000638-58-4	95.00
2	Decanamide-	38977	002319-29-1	90.00
3	Hexadecanamide	106565	000629-54-9	90.00
4	Dodecanamide	60439	001120-16-7	86.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	64.00



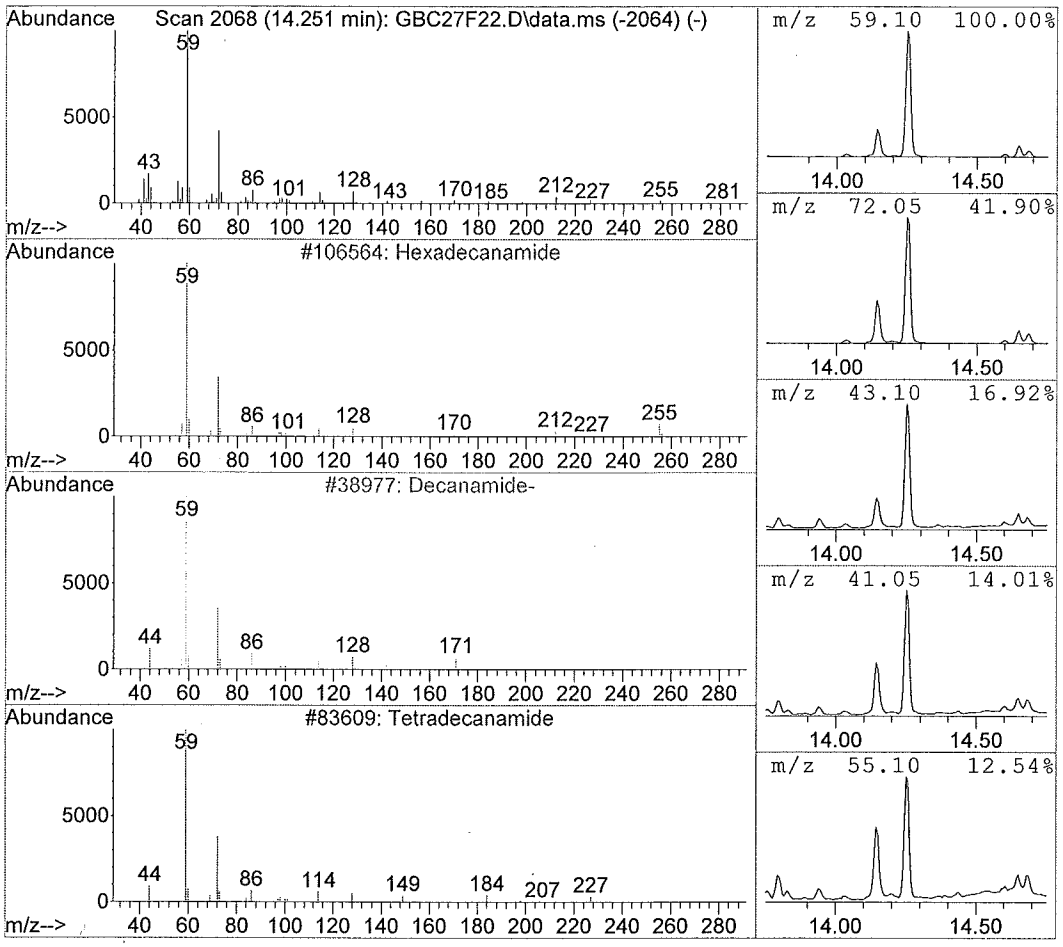
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	7.14 ug/ml	1093449	Chrysene-d12	3064773

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	94.00
2	Decanamide-	38977	002319-29-1	90.00
3	Tetradecanamide	83609	000638-58-4	86.00
4	Dodecanamide	60439	001120-16-7	59.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00



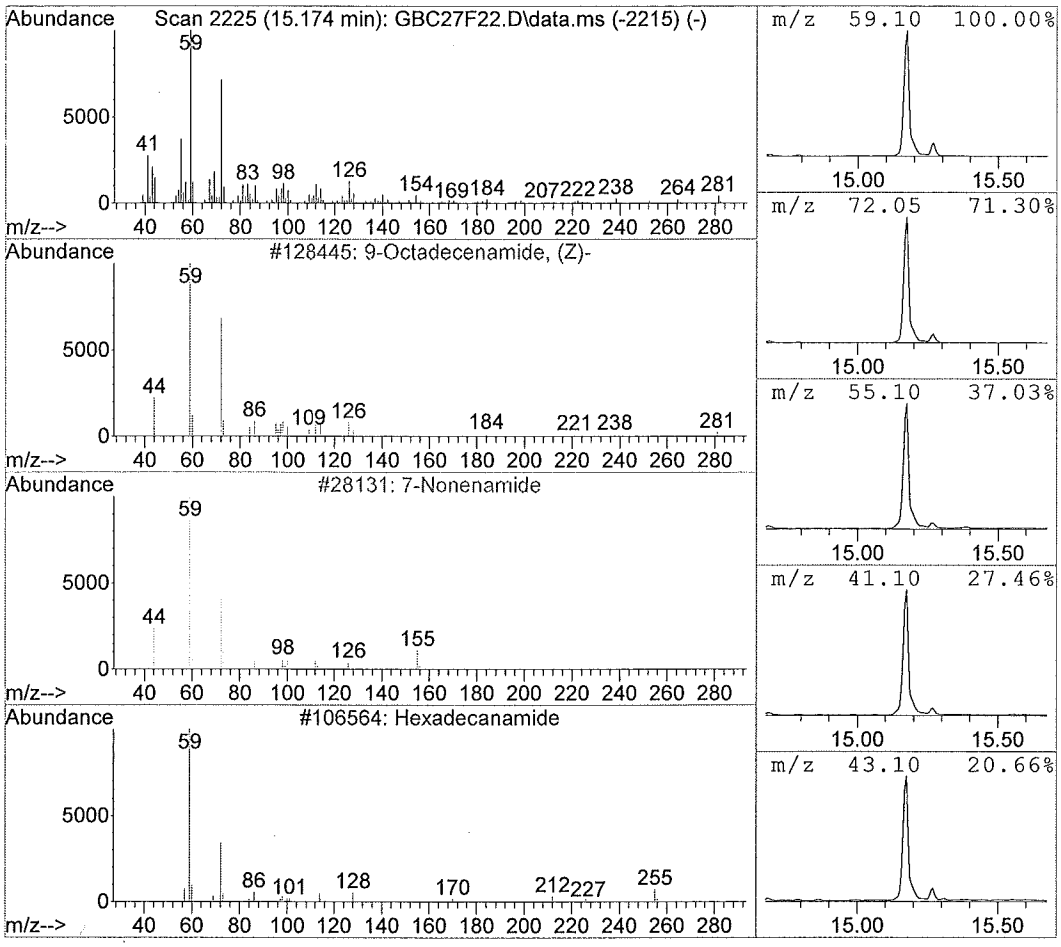
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	50.47 ug/ml	7733991	Chrysene-d12	3064773

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	7-Nonenamide	28131	090949-53-4	72.00
3	Hexadecanamide	106564	000629-54-9	56.00
4	Dodecanamide	60440	001120-16-7	53.00
5	Pentanamide	4064	000626-97-1	53.00



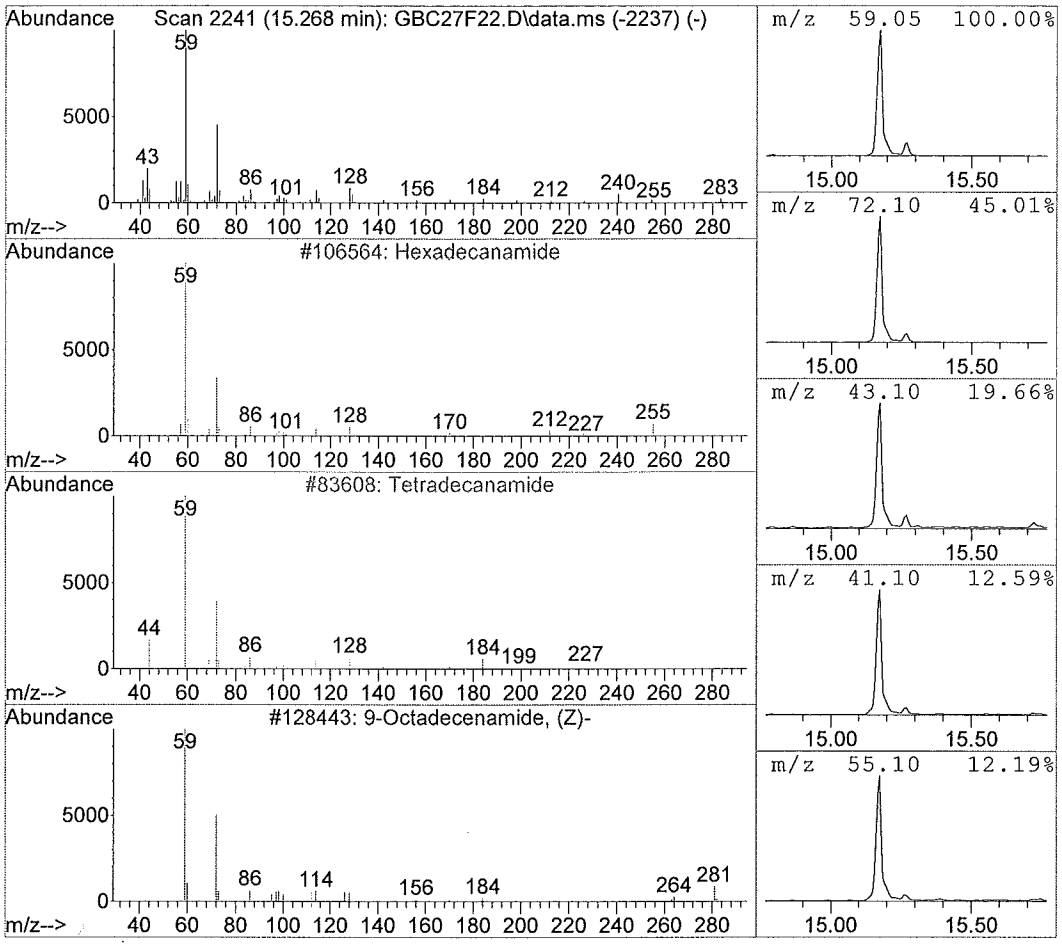
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.27	2.49 ug/ml	381404	Chrysene-d12	3064773

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	86.00
2	Tetradecanamide	83608	000638-58-4	86.00
3	9-Octadecenamide, (Z)-	128443	000301-02-0	78.00
4	Decanamide-	38977	002319-29-1	72.00
5	Dodecanamide	60439	001120-16-7	59.00



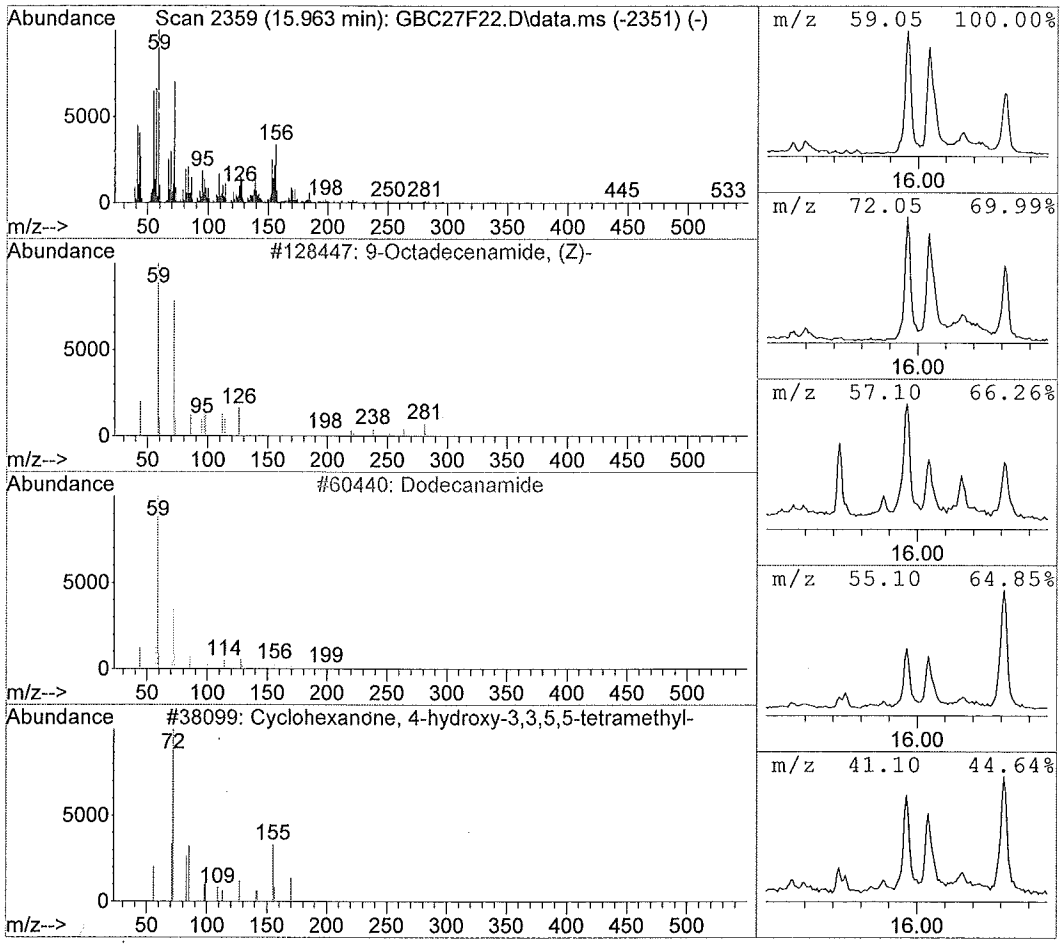
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.96	3.50 ug/ml	537038	Chrysene-d12	3064773

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128447	000301-02-0	60.00
2	Dodecanamide	60440	001120-16-7	38.00
3	Cyclohexanone, 4-hydroxy-3,3,5,5-te	38099	017429-06-0	35.00
4	Butanal, 3-methyl-, oxime	4097	000626-90-4	27.00
5	.alpha.-D-Xylo-Hex-5-enofuranose, 5	50811	007284-07-3	27.00



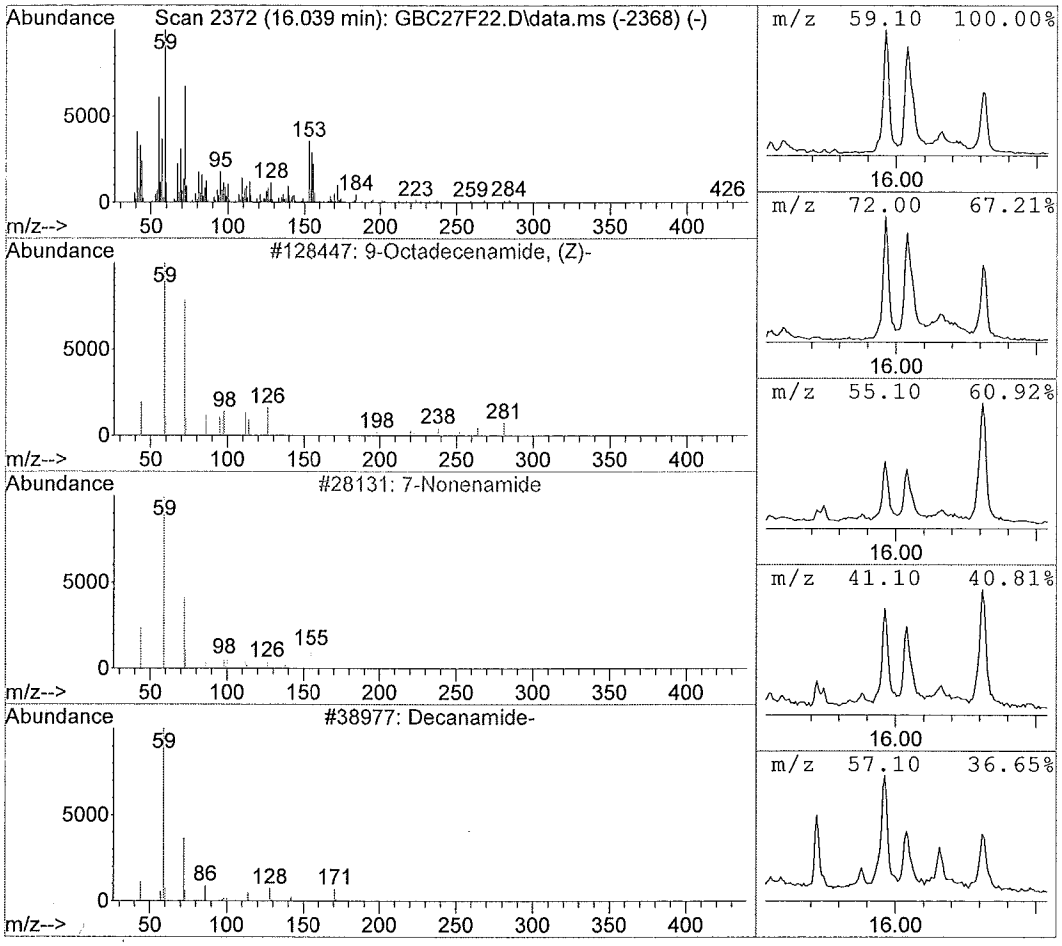
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.04	2.83 ug/ml	433491	Chrysene-d12	3064773

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128447	000301-02-0	70.00
2	7-Nonenamide	28131	090949-53-4	58.00
3	Decanamide-	38977	002319-29-1	47.00
4	Tetradecanamide	83609	000638-58-4	47.00
5	Nonanamide	29478	001120-07-6	38.00



: 08541

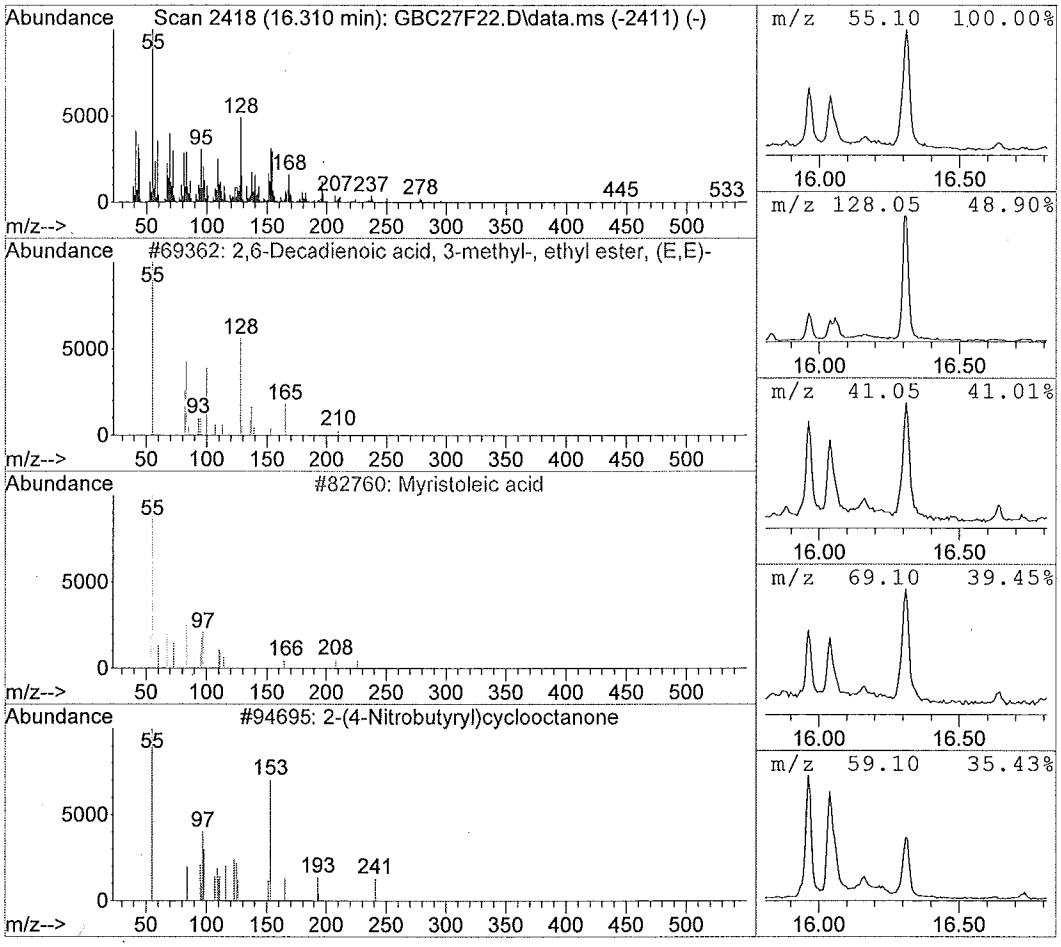
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.31	5.71 ug/ml	874428	Chrysene-d12	3064773

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,6-Decadienoic acid, 3-methyl-, et	69362	055283-33-5	11.00
2	Myristoleic acid	82760	000544-64-9	10.00
3	2-(4-Nitrobutyryl)cyclooctanone	94695	079630-93-6	10.00
4	5-Allyldihydro-1,3,5-dioxazine	12864	016574-19-9	10.00
5	Cyclohexanecarboxamide	11823	001122-56-1	10.00



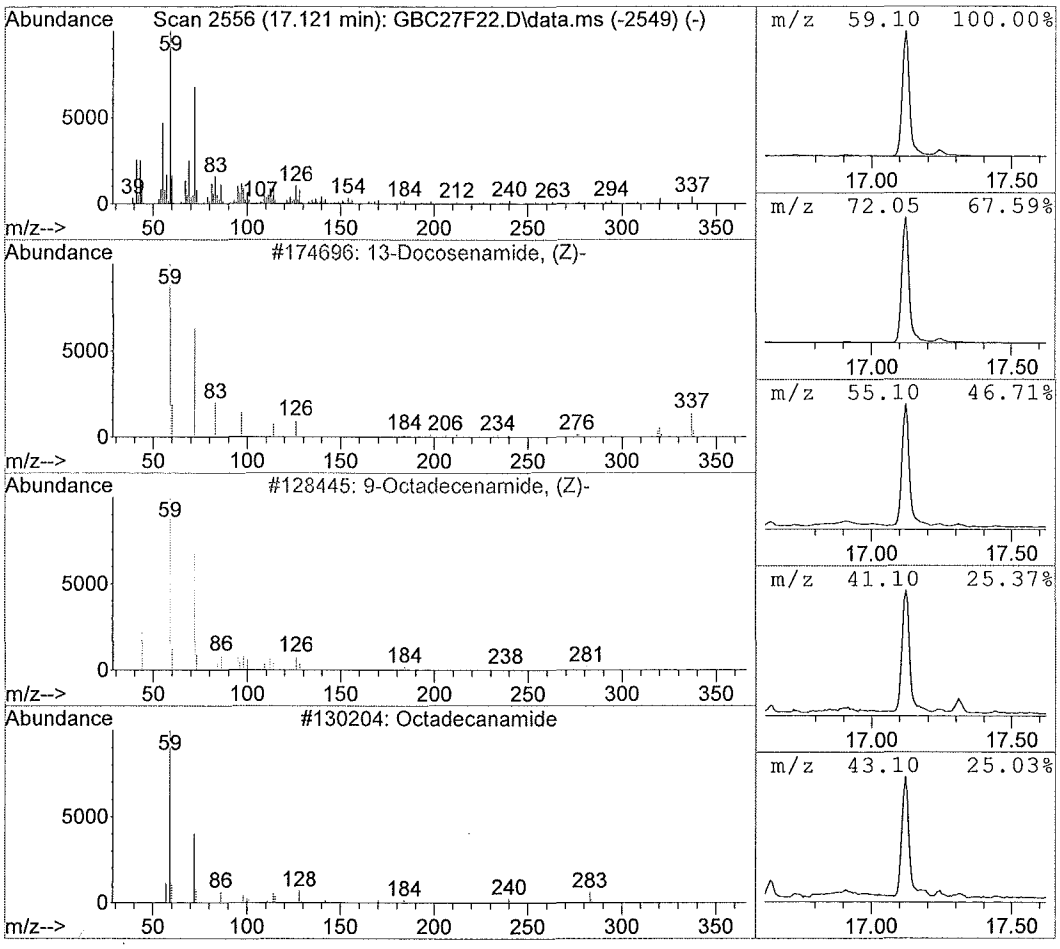
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	11.24 ug/ml	1749756	Perylene-d12	3112735

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	Octadecanamide	130204	000124-26-5	53.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	53.00
5	Dodecanamide	60440	001120-16-7	50.00



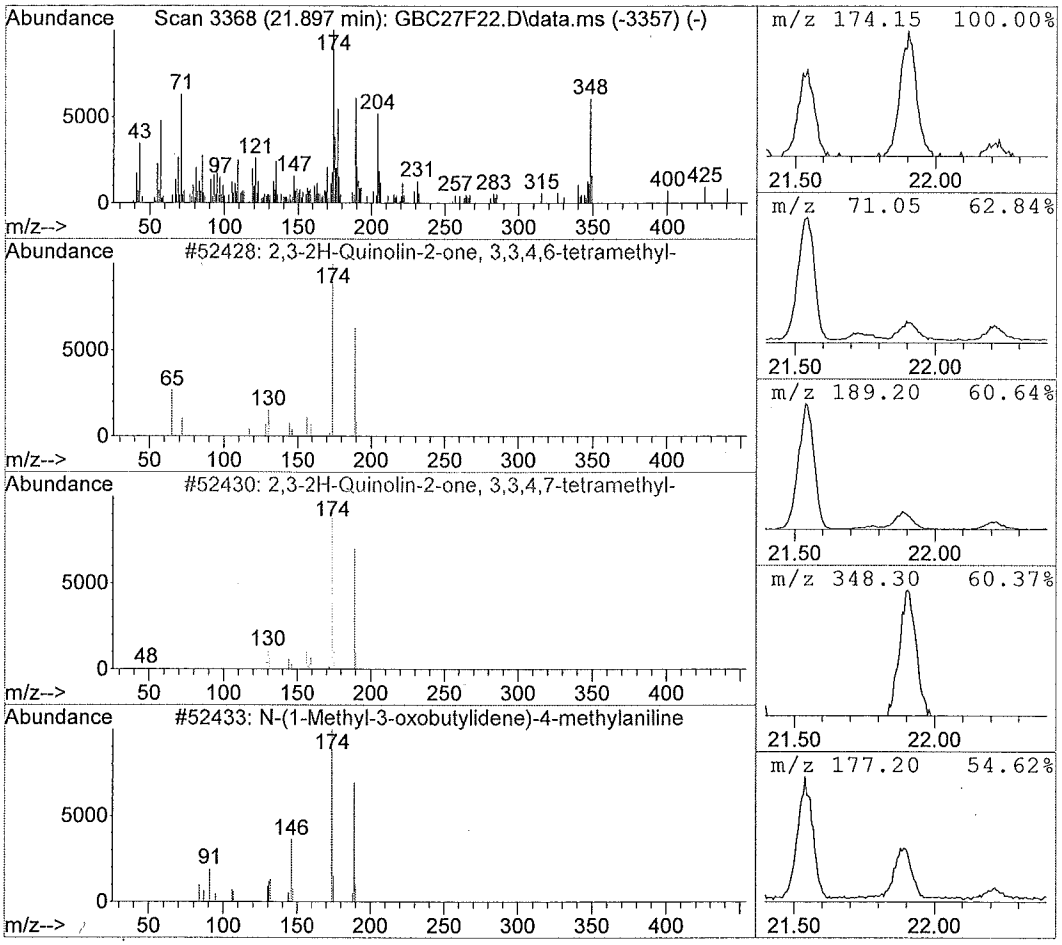
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	2.87 ug/ml	446782	Perylene-d12	3112735

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,3-2H-Quinolin-2-one, 3,3,4,6-tetr	52428	1000129-70-9	30.00
2	2,3-2H-Quinolin-2-one, 3,3,4,7-tetr	52430	1000129-70-4	30.00
3	N-(1-Methyl-3-oxobutylidene)-4-meth	52433	003145-83-3	30.00
4	5,6-Dihydro-2-(3,4-methylenedioxybe	182613	023344-09-4	25.00
5	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64575	000489-40-7	15.00



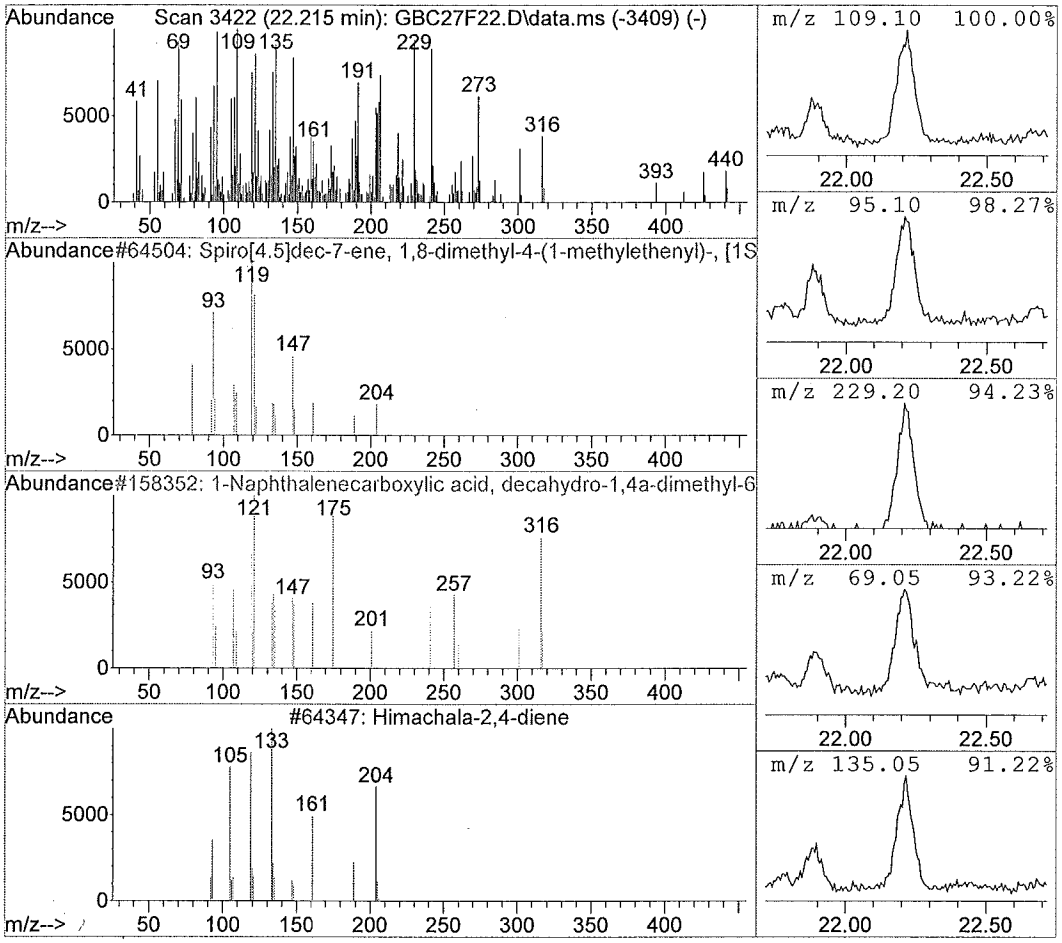
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.22	3.93 ug/ml	611065	Perylene-d12	3112735

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Spiro[4.5]dec-7-ene, 1,8-dimethyl-4	64504	024048-44-0	35.00
2	1-Naphthalenecarboxylic acid, decah	158352	015798-13-7	30.00
3	Himachala-2,4-diene	64347	060909-27-5	25.00
4	Azulene, 1,2,3,5,6,7,8,8a-octahydro	64531	003691-11-0	18.00
5	Ethanone, 1-(2,4,6-trimethylphenyl)	32170	001667-01-2	15.00



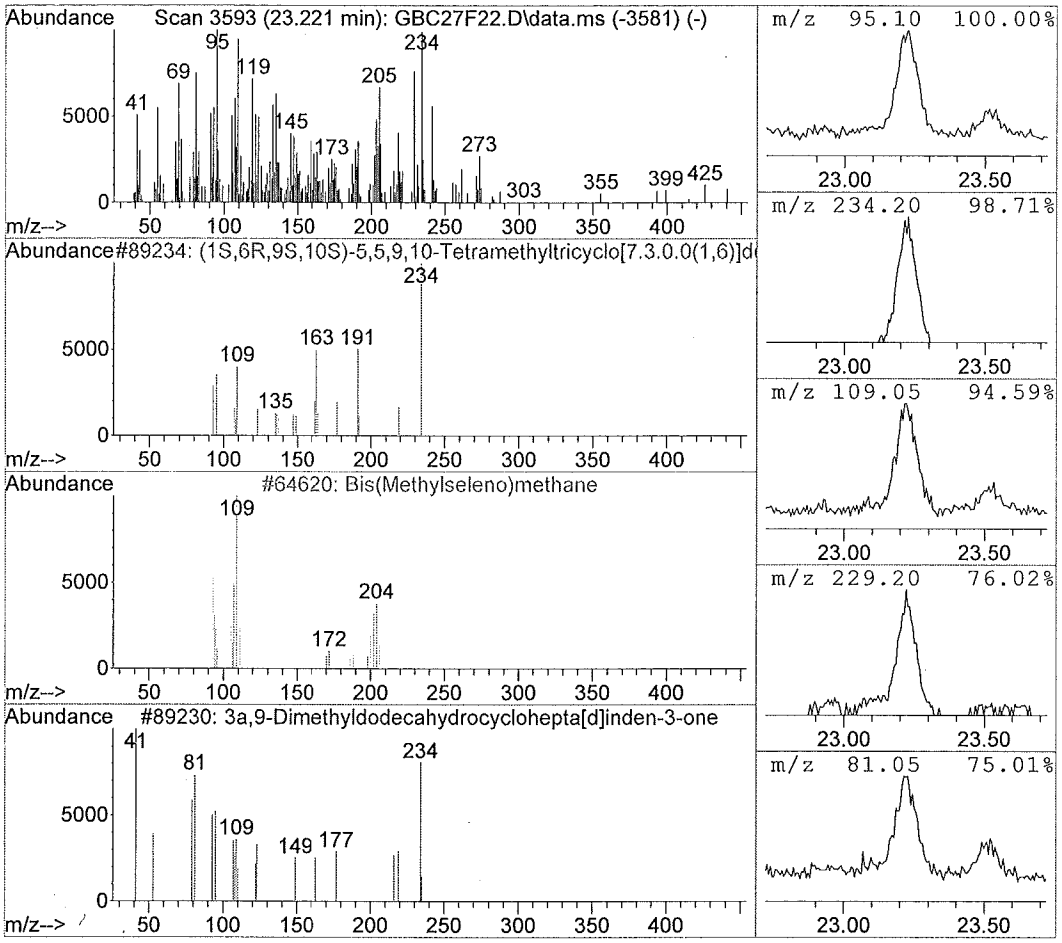
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.22	3.58 ug/ml	557413	Perylene-d12	3112735

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	(1S,6R,9S,10S)-5,5,9,10-Tetramethyl	89234	1000298-98-1	45.00
2	Bis(Methylseleno)methane	64620	056051-03-7	44.00
3	3a,9-Dimethyldodecahydrocyclohepta[	89230	1000189-38-7	35.00
4	(-)-Isolongifolol, methyl ether	90905	1000333-80-8	30.00
5	Anthra(2,3-b)thiophene	89177	022108-55-0	25.00



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.: F9L58

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.: F9L58

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.: F9L58

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

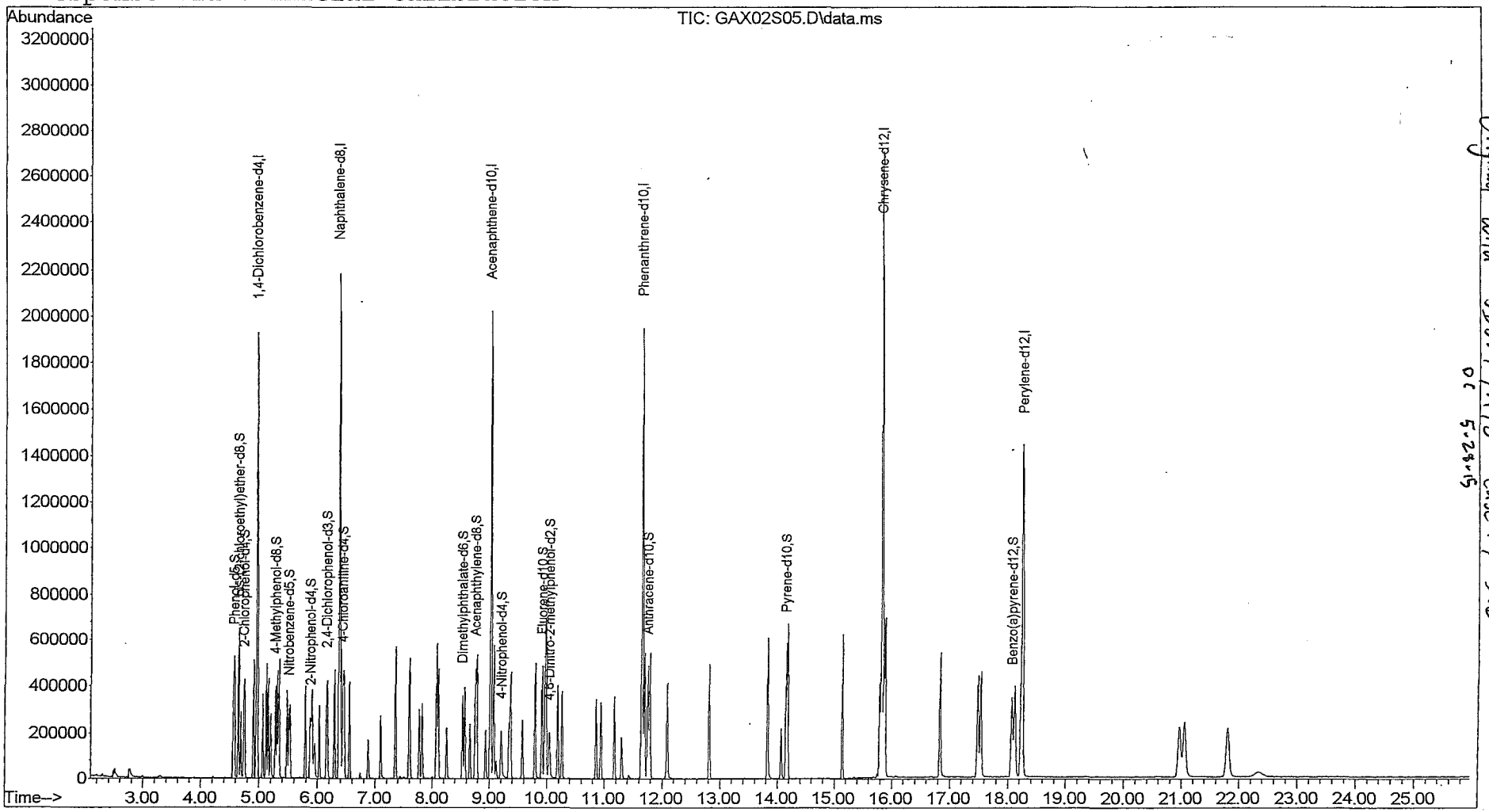
COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
Phenol-d5	1.477	1.403	1.423	1.351	1.319	1.395	4.4
Bis(2-chloroethyl)ether-d8	0.902	0.865	0.870	0.817	0.817	0.854	4.3
2-Chlorophenol-d4	1.451	1.374	1.397	1.335	1.290	1.369	4.4
4-Methylphenol-d8	1.128	1.096	1.102	1.056	1.046	1.086	3.1
Nitrobenzene-d5	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
DC 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)

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

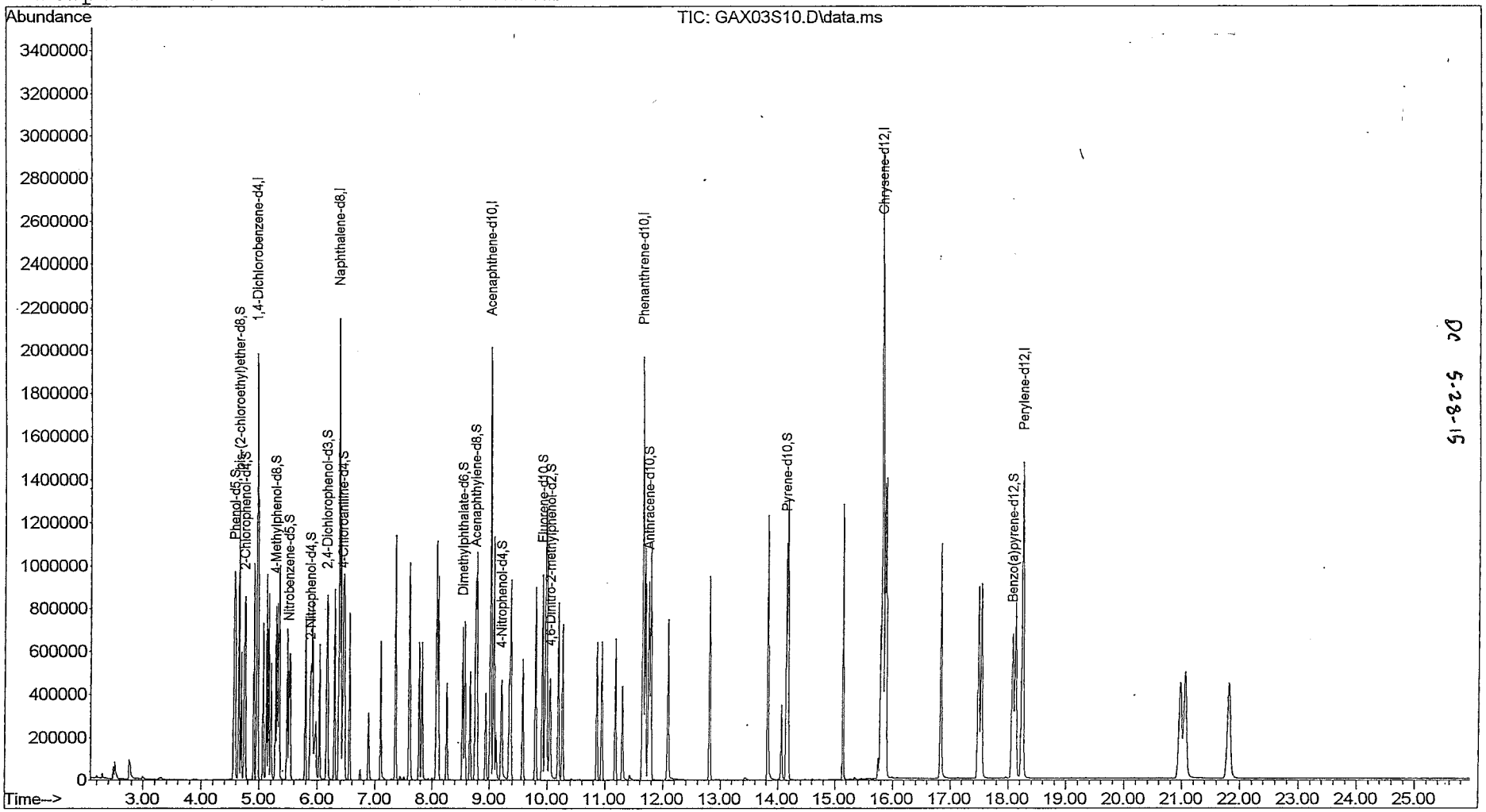
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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)

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)

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

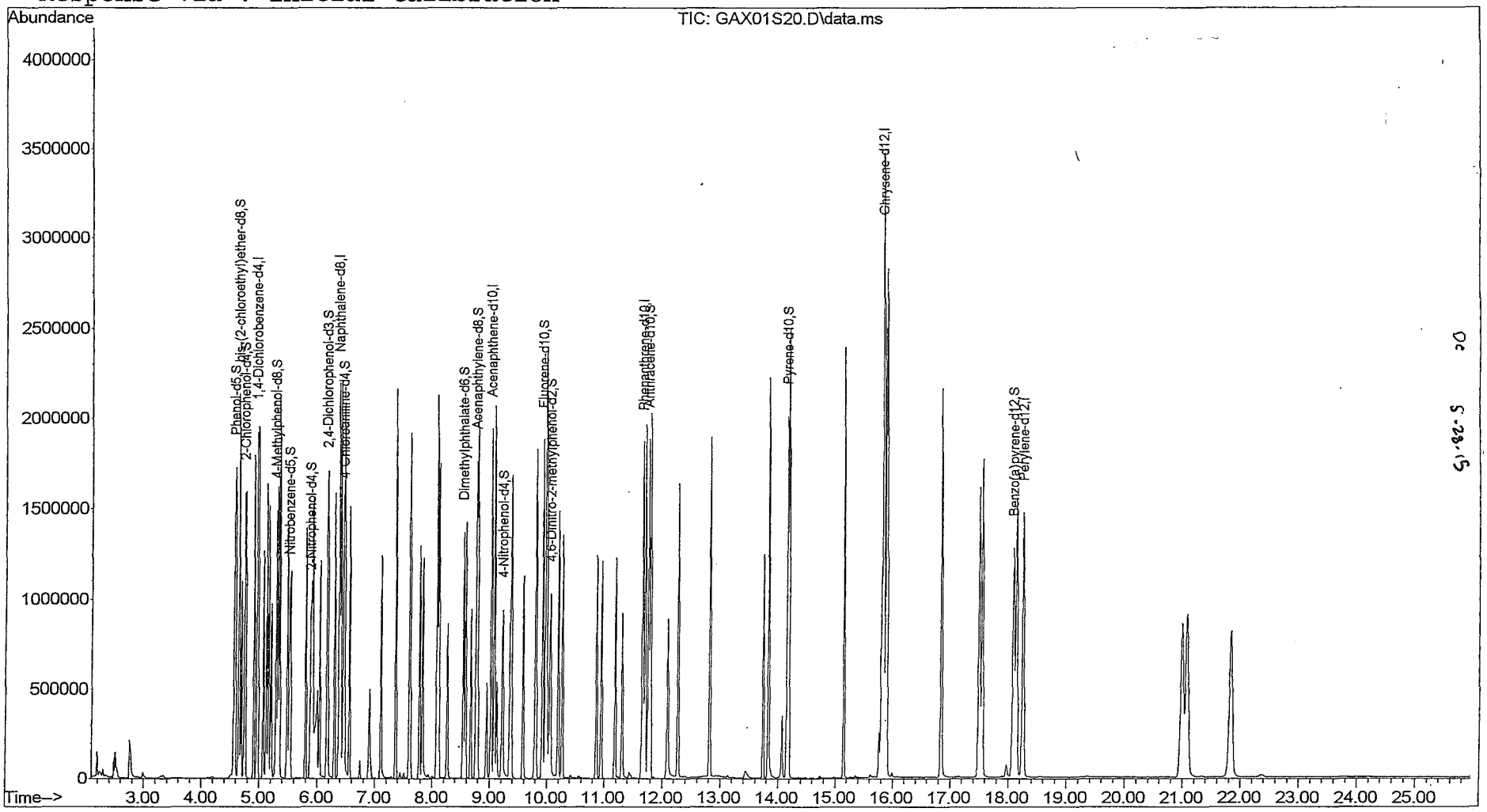
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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)

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)

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

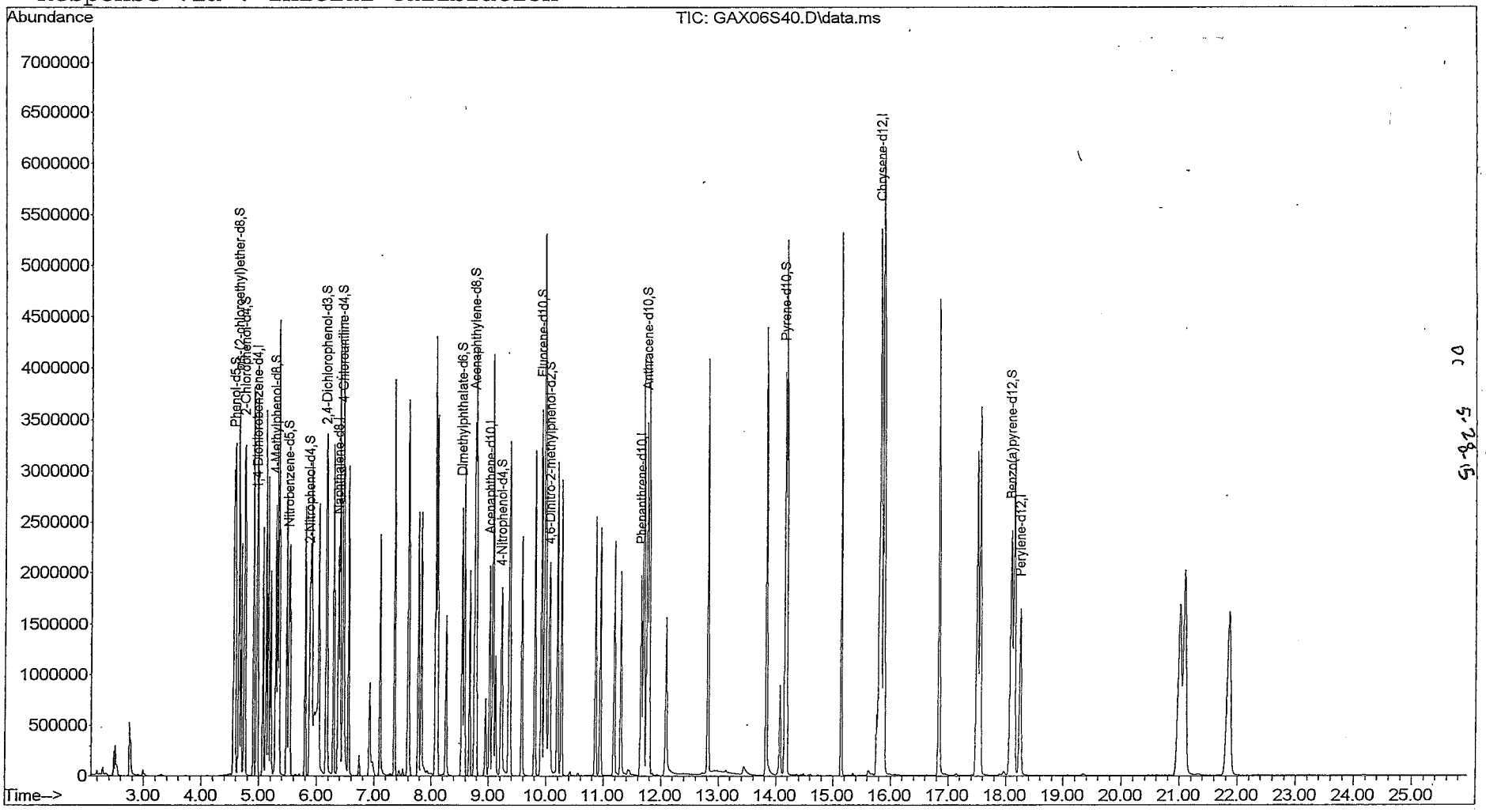
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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)

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	DC 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)

Quantitation Report

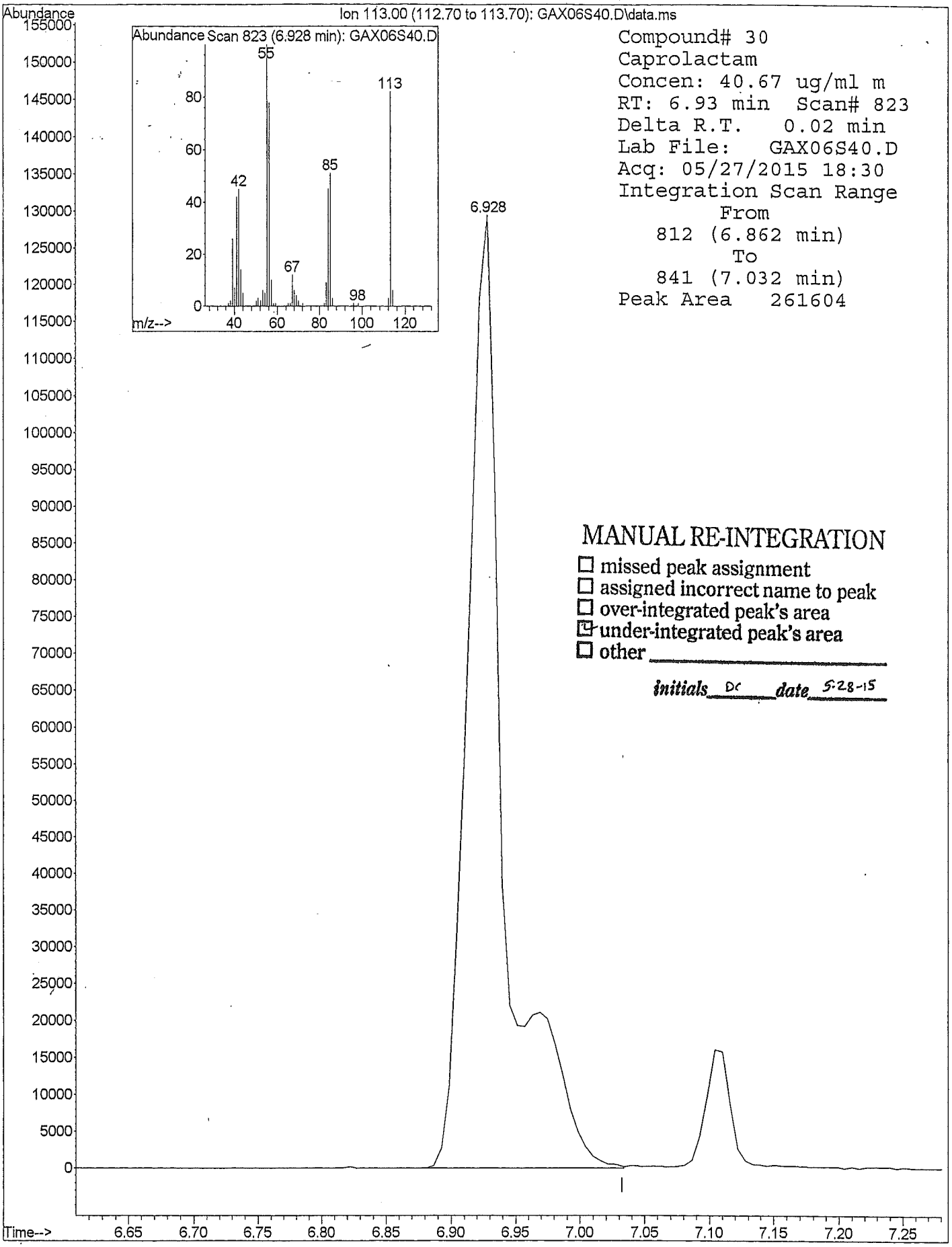
Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX06S40.D Vial: 4
Acq On : 05/27/2015 18:30 Operator: DJC
Sample : SSTD040GX 28170 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 11:13:25 2015 Results File: GSOM01D4.RES

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



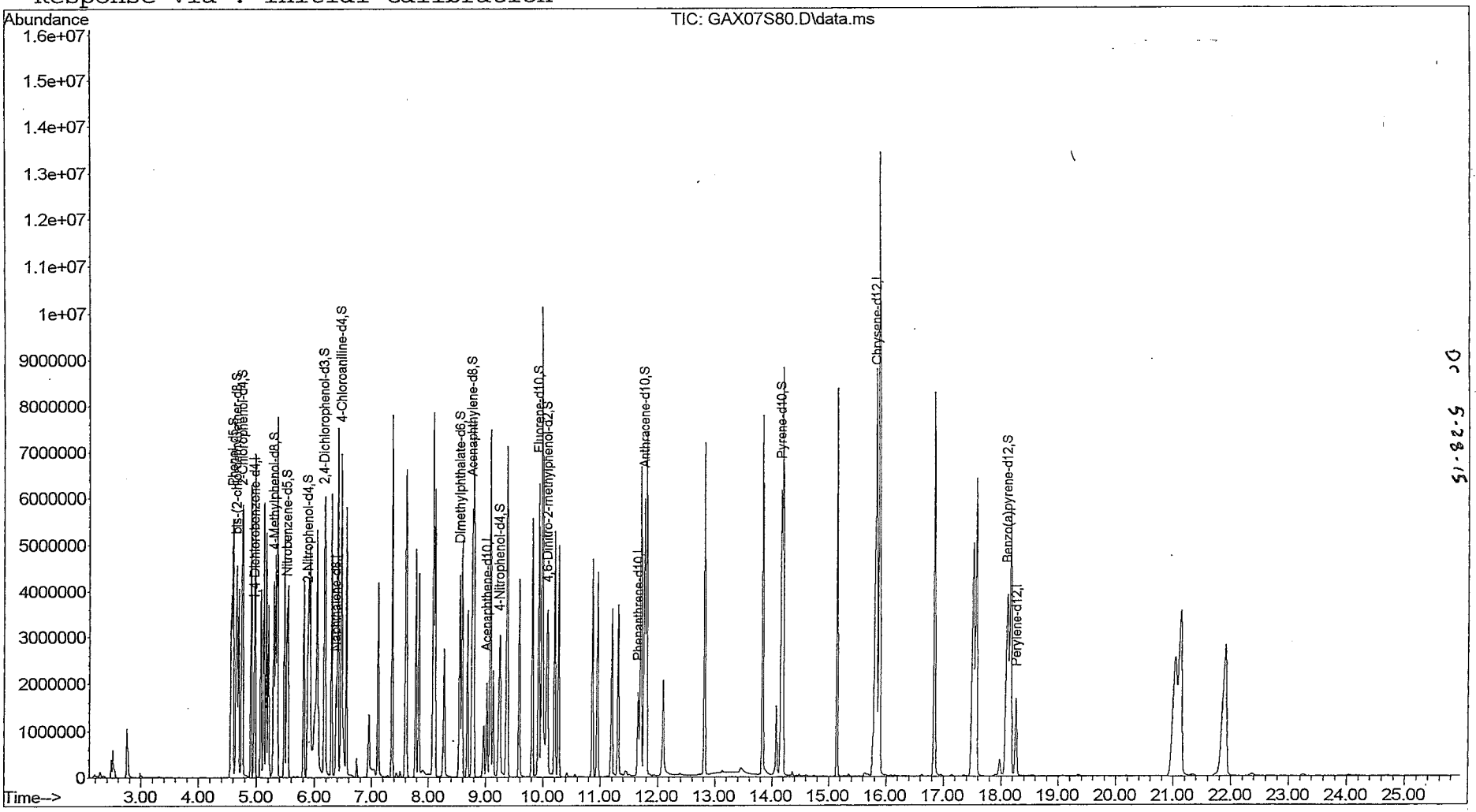
GSOM01D4.M 5975-G GSOM01D4.M SSTD040GX 28170 . X06/19/15

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)

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	ok 5-28-15	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)

Quantitation Report

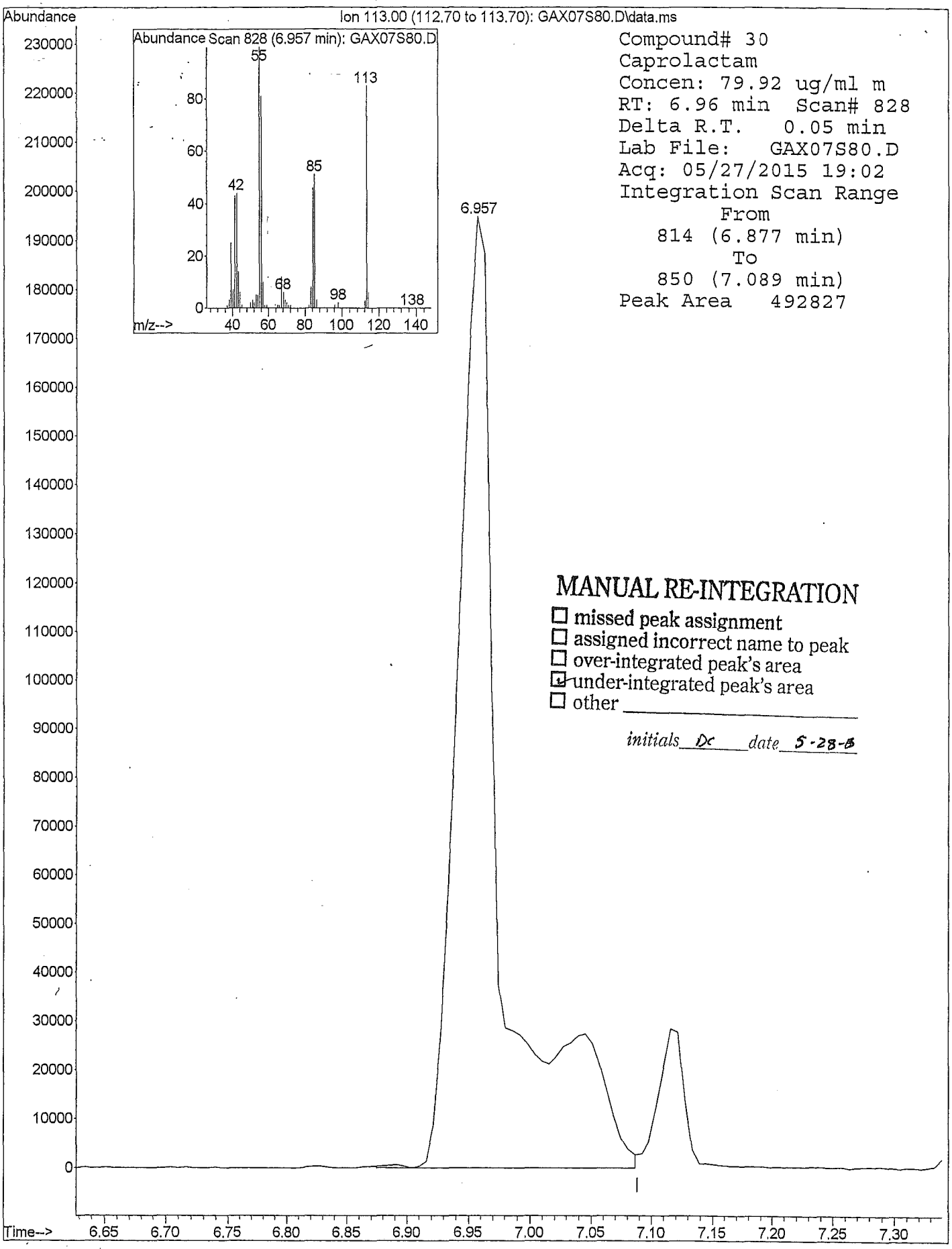
Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX07S80.D Vial: 5
Acq On : 05/27/2015 19:02 Operator: DJC
Sample : SSTD080GX 28171 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 11:14:58 2015 Results File: GSOM01D4.RES

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)

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

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.: F9L58

Instrument ID: 5975-G Calibration Date(s): 06/20/2015 06/20/2015

Calibration Time(s): 11:10 13:22

LAB FILE ID: RRF 5.0 = GBV03S05 RRF 10 = GBV04S10

RRF 20 = GBV05S20 RRF 40 = GBV06S40 RRF 80 = GBV07S80

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
Benzaldehyde	1.141	1.182	1.210	1.275	1.108	1.183	5.4
Phenol	1.874	1.940	1.836	1.811	1.891	1.871	2.7
Bis(2-chloroethyl)ether	1.510	1.575	1.530	1.521	1.610	1.549	2.7
2-Chlorophenol	1.395	1.459	1.359	1.312	1.387	1.382	3.9
2-Methylphenol	1.330	1.367	1.238	1.171	1.262	1.274	6.1
2,2'-Oxybis(1-chloropropane)	3.758	3.884	3.674	3.774	3.918	3.802	2.6
Acetophenone	1.970	1.999	1.848	1.896	1.864	1.916	3.5
4-Methylphenol	1.412	1.484	1.372	1.316	1.411	1.399	4.4
N-Nitroso-di-n-propylamine	1.063	1.088	0.999	1.032	1.051	1.047	3.2
Hexachloroethane	0.692	0.724	0.687	0.689	0.714	0.701	2.4
Nitrobenzene	0.467	0.471	0.445	0.456	0.469	0.462	2.4
Isophorone	0.798	0.812	0.757	0.785	0.823	0.795	3.2
2-Nitrophenol	0.215	0.214	0.196	0.198	0.210	0.207	4.3
2,4-Dimethylphenol	0.402	0.406	0.379	0.375	0.399	0.392	3.6
Bis(2-chloroethoxy)methane	0.485	0.499	0.464	0.474	0.485	0.482	2.7
2,4-Dichlorophenol	0.314	0.324	0.298	0.297	0.311	0.309	3.7
Naphthalene	1.062	1.054	0.986	0.950	1.004	1.011	4.6
4-Chloroaniline	0.409	0.402	0.304	0.308	0.331	0.351	14.6
Hexachlorobutadiene	0.220	0.215	0.202	0.206	0.215	0.212	3.5
Caprolactam	0.111	0.112	0.104	0.118	0.118	0.113	5.2
4-Chloro-3-methylphenol	0.335	0.351	0.326	0.336	0.359	0.341	4.0
2-Methylnaphthalene	0.664	0.675	0.615	0.596	0.649	0.640	5.2
Hexachlorocyclopentadiene	0.379	0.409	0.415	0.418	0.438	0.412	5.2
2,4,6-Trichlorophenol	0.413	0.430	0.411	0.403	0.436	0.418	3.3
2,4,5-Trichlorophenol	0.384	0.417	0.402	0.406	0.441	0.410	5.1
1,1'-Biphenyl	1.372	1.418	1.345	1.354	1.321	1.362	2.7
2-Chloronaphthalene	1.188	1.226	1.149	1.131	1.145	1.168	3.3
2-Nitroaniline		0.496	0.460	0.445	0.511	0.478	6.4
Dimethylphthalate	1.309	1.348	1.258	1.284	1.347	1.309	3.0
2,6-Dinitrotoluene	0.294	0.305	0.288	0.293	0.306	0.297	2.6
Acenaphthylene	1.853	1.913	1.789	1.712	1.782	1.810	4.2
3-Nitroaniline		0.306	0.167	0.188	0.207	0.217	28.2
Acenaphthene	1.133	1.154	1.076	1.030	1.091	1.097	4.5
2,4-Dinitrophenol		0.178	0.188	0.204	0.229	0.200	11.2
4-Nitrophenol		0.201	0.189	0.190	0.212	0.198	5.5
Dibenzofuran	1.509	1.531	1.422	1.318	1.441	1.444	5.8

6F - FORM VI SV-2
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-G Calibration Date(s): 06/20/2015 06/20/2015

Calibration Time(s): 11:10 13:22

LAB FILE ID: RRF 5.0 = GBV03S05 RRF 10 = GBV04S10
RRF 20 = GBV05S20 RRF 40 = GBV06S40 RRF 80 = GBV07S80

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
2,4-Dinitrotoluene	0.394	0.417	0.380	0.390	0.394	0.395	3.4
Diethylphthalate	1.356	1.391	1.283	1.365	1.395	1.358	3.3
Fluorene	1.244	1.291	1.189	1.131	1.162	1.203	5.3
4-Chlorophenyl-phenylether	0.627	0.632	0.591	0.586	0.599	0.607	3.5
4-Nitroaniline		0.324	0.266	0.226	0.211	0.256	19.7
4,6-Dinitro-2-methylphenol		0.164	0.158	0.163	0.176	0.165	4.6
N-Nitrosodiphenylamine[1]	0.578	0.594	0.557	0.548	0.550	0.565	3.6
1,2,4,5-Tetrachlorobenzene	0.584	0.578	0.547	0.523	0.554	0.557	4.4
4-Bromophenyl-phenylether	0.216	0.219	0.206	0.208	0.220	0.214	3.0
Hexachlorobenzene	0.231	0.231	0.221	0.219	0.234	0.227	3.0
Atrazine	0.218	0.220	0.200	0.201	0.186	0.205	6.9
Pentachlorophenol		0.136	0.136	0.136	0.155	0.141	6.9
Phenanthrene	1.081	1.135	1.056	0.997	1.065	1.067	4.7
Anthracene	1.128	1.162	1.075	1.009	1.070	1.089	5.4
Carbazole	0.992	0.975	0.670	0.584	0.508	0.746	30.1
Di-n-butylphthalate	1.498	1.537	1.415	1.442	1.489	1.476	3.3
Fluoranthene	1.194	1.246	1.153	1.099	1.185	1.175	4.6
Pyrene	1.289	1.346	1.266	1.188	1.275	1.273	4.5
Butylbenzylphthalate	0.664	0.699	0.661	0.675	0.697	0.679	2.6
3,3'-Dichlorobenzidine	0.395	0.314	0.224	0.247	0.305	0.297	22.6
Benzo(a)anthracene	1.217	1.254	1.174	1.147	1.276	1.213	4.4
Chrysene	1.092	1.154	1.070	1.036	1.126	1.096	4.2
Bis(2-ethylhexyl)phthalate	0.991	1.037	0.973	0.967	0.978	0.989	2.9
Di-n-octylphthalate	1.947	2.073	1.940	1.961	2.017	1.988	2.8
Benzo(b)fluoranthene	1.245	1.288	1.217	1.153	1.360	1.253	6.2
Benzo(k)fluoranthene	1.174	1.228	1.170	1.133	1.210	1.183	3.2
Benzo(a)pyrene	1.190	1.208	1.140	1.119	1.237	1.179	4.1
Indeno(1,2,3-cd)pyrene	0.990	1.044	1.015	1.010	1.152	1.042	6.2
Dibenzo(a,h)anthracene	1.017	1.054	1.007	1.001	1.137	1.043	5.4
Benzo(g,h,i)perylene	1.005	1.047	0.981	0.987	1.110	1.026	5.2
2,3,4,6-Tetrachlorophenol	0.317	0.344	0.323	0.325	0.353	0.332	4.5

[1] Cannot be separated from Diphenylamine

6G - FORM VI SV-3
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-G Calibration Date(s): 06/20/2015 06/20/2015

Calibration Time(s): 11:10 13:22

LAB FILE ID: RRF 5.0 = GBV03S05 RRF 10 = GBV04S10
RRF 20 = GBV05S20 RRF 40 = GBV06S40 RRF 80 = GBV07S80

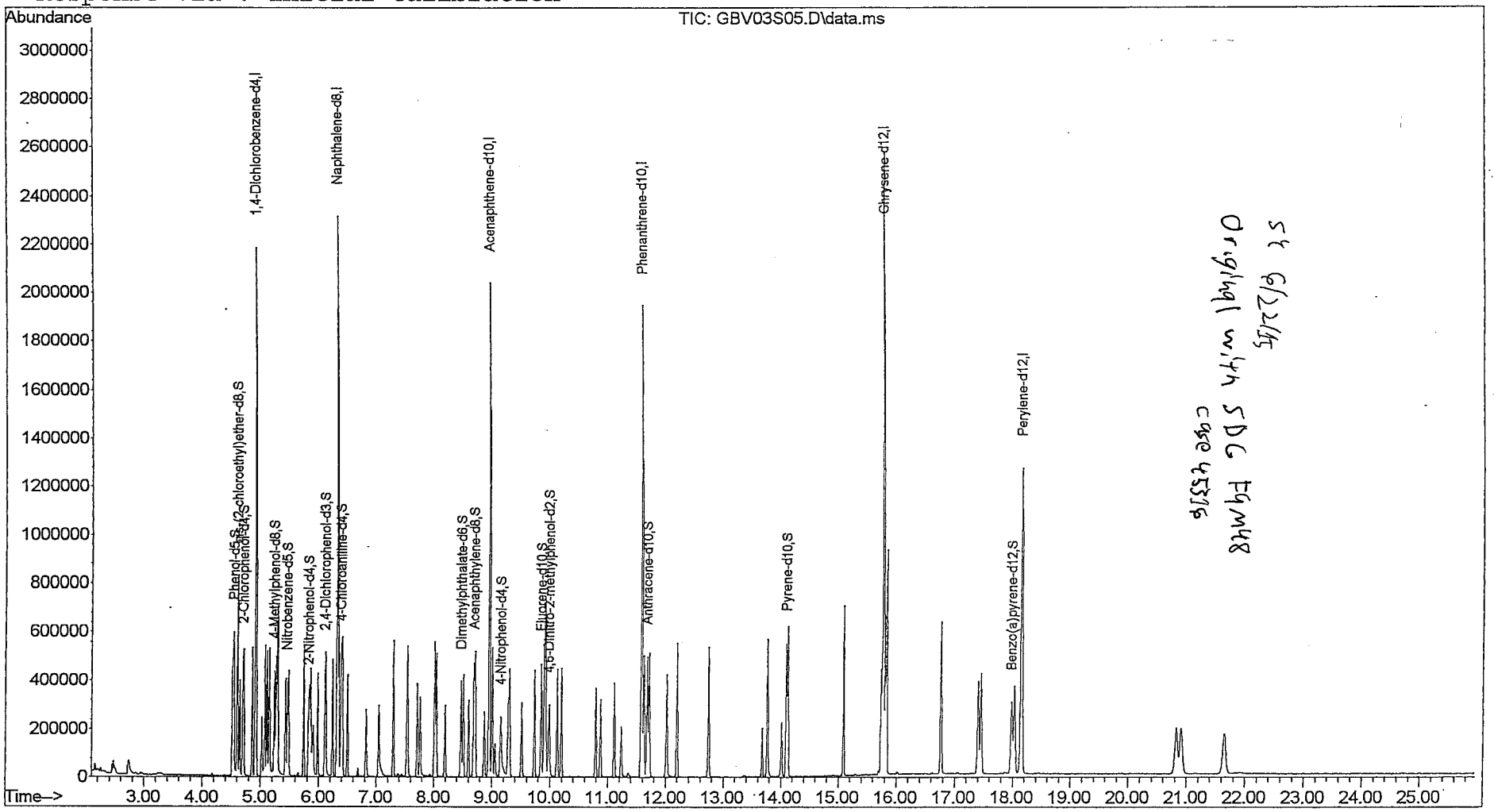
COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
Phenol-d5	1.721	1.835	1.696	1.662	1.788	1.740	4.0
Bis(2-chloroethyl)ether-d8	1.369	1.397	1.304	1.283	1.429	1.356	4.6
2-Chlorophenol-d4	1.476	1.504	1.453	1.405	1.511	1.470	2.9
4-Methylphenol-d8	1.140	1.189	1.114	1.131	1.247	1.164	4.6
Nitrobenzene-d5	0.180	0.181	0.170	0.166	0.182	0.176	4.2
2-Nitrophenol-d4	0.193	0.191	0.177	0.175	0.193	0.186	4.7
2,4-Dichlorophenol-d3	0.288	0.302	0.281	0.275	0.300	0.289	4.1
4-Chloroaniline-d4	0.395	0.380	0.260	0.272	0.273	0.316	20.8
Dimethylphthalate-d6	1.271	1.291	1.201	1.197	1.310	1.254	4.2
Acenaphthylene-d8	1.732	1.771	1.659	1.606	1.754	1.704	4.1
4-Nitrophenol-d4		0.255	0.246	0.248	0.274	0.256	5.0
Fluorene-d10	1.067	1.123	1.041	1.016	1.109	1.071	4.2
4,6-Dinitro-2-methylphenol-d2		0.138	0.137	0.137	0.156	0.142	6.7
Anthracene-d10	1.083	1.103	1.042	0.993	1.083	1.061	4.1
Pyrene-d10	0.978	1.044	0.984	0.942	1.043	0.998	4.5
Benzo(a)pyrene-d12	0.944	0.976	0.925	0.914	1.032	0.958	5.0

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV03S05.D Vial: 3
Acq On : 06/20/2015 11:10 Operator: DJC
Sample : SSTD005GV 28435 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 20 11:37:32 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration



Original run, 5 DC FHM48 case 42516
ST 6/22/15

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV03S05.D Vial: 3
Acq On : 06/20/2015 11:10 Operator: DJC
Sample : SSTD005GV 28435 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 11:37:32 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.91	152	315826	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1163105	20.00 ug/ml
33) Acenaphthene-d10	8.95	164	657684	20.00 ug/ml
59) Phenanthrene-d10	11.58	188	1073434	20.00 ug/ml
73) Chrysene-d12	15.77	240	1066701	20.00 ug/ml
81) Perylene-d12	18.15	264	931868	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.53	99	135921	4.877ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	108102	5.056ug/mL
7) 2-Chlorophenol-d4	4.70	132	116501	4.986ug/ml
13) 4-Methylphenol-d8	5.23	113	90005	4.828ug/mL
17) Nitrobenzene-d5	5.46	128	52344	5.131ug/ml
21) 2-Nitrophenol-d4	5.82	143	56002	5.139ug/mL
25) 2,4-Dichlorophenol-d3	6.10	165	83613	4.954ug/mL
28) 4-Chloroaniline-d4	6.38	131	114748	6.275ug/mL
42) Dimethylphthalate-d6	8.47	166	209050	5.038ug/mL
45) Acenaphthylene-d8	8.69	160	284727	5.025ug/mL
50) 4-Nitrophenol-d4	9.15	143	40207	4.767ug/mL
57) Fluorene-d10	9.85	176	175421	4.918ug/mL
61) 4,6-Dinitro-2-methylphenol	9.97	200	31804	4.370ug/mL
69) Anthracene-d10	11.68	188	290577	5.134ug/mL
75) Pyrene-d10	14.09	212	260823	4.916ug/mL
86) Benzo(a)pyrene-d12	17.98	264	219897	4.952ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.52	77	90119	4.767ug/ml	86
4) Phenol	4.55	94	147942	4.943ug/ml	80
5) Bis(2-chloroethyl)ether	4.65	93	119187	4.742ug/ml	89
8) 2-Chlorophenol	4.71	128	110117	4.948ug/ml	82
9) 2-Methylphenol	5.11	108	105011	5.031ug/ml	97
10) 2,2'-Oxybis-(1-chloropropa	5.15	45	296716	4.961ug/ml	100
11) Acetophenone	5.29	105	155576	5.052ug/ml	81
12) 4-methylphenol	5.26	108	111485	4.947ug/ml	95
14) N-Nitroso-di-n-propylamine	5.28	70	83966	4.989ug/ml	75
15) Hexachloroethane	5.43	117	54616	4.904ug/ml	99
18) Nitrobenzene	5.48	77	135817	5.123ug/ml	86
19) Isophorone	5.74	82	232054	5.013ug/ml	90
20) 2-Nitrophenol	5.84	139	62443	5.132ug/ml	70
22) 2,4-Dimethylphenol	5.86	107	116885	5.123ug/ml	81
23) Bis(2-chloroethoxy)methane	5.98	93	141081	5.050ug/ml	98
24) 2,4-Dichlorophenol	6.12	162	91283	4.955ug/ml	96
26) Naphthalene	6.35	128	308828	5.150ug/ml	98

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00577

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV03S05.D Vial: 3
Acq On : 06/20/2015 11:10 Operator: DJC
Sample : SSTD005GV 28435 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 11:37:32 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27) 4-Chloroaniline	6.39	127	119016	5.910ug/ml	91
29) Hexachlorobutadiene	6.50	225	64011	5.201ug/ml	96
30) Caprolactam	6.82	113	32224	4.912ug/ml	41
31) 4-Chloro-3-methylphenol	7.05	107	97306	4.912ug/ml	91
32) 2-Methylnaphthalene	7.30	142	193185	5.120ug/ml	99
34) 1,2,4,5-Tetrachlorobenzene	7.55	216	95993	5.202ug/mL	98
35) Hexachlorocyclopentadiene	7.53	237	62281	4.576ug/ml	98
36) 2,4,6-Trichlorophenol	7.71	196	67911	4.925ug/ml	98
37) 2,4,5-Trichlorophenol	7.76	196	63096	4.702ug/ml	99
38) 1,1'-Biphenyl	8.01	154	225647	4.989ug/ml	96
39) 2-Chloronaphthalene	8.04	162	195325	5.062ug/ml	96
40) 2-Nitroaniline	8.19	65	74798	4.857ug/ml	78
41) Dimethylphthalate	8.51	163	215178	4.940ug/ml	99
43) 2,6-Dinitrotoluene	8.60	165	48328	4.814ug/ml	93
44) Acenaphthylene	8.72	152	304609	4.970ug/ml	99
46) 3-Nitroaniline	8.87	138	52358	6.797ug/ml	83
47) Acenaphthene	9.01	153	186315	5.069ug/ml	94
48) 2,4-Dinitrophenol	9.06	184	25130	4.006ug/ml	100
49) 4-Nitrophenol	9.16	109	31266	4.765ug/ml	79
51) Dibenzofuran	9.30	168	248169	5.043ug/ml	99
52) 2,4-Dinitrotoluene	9.28	165	64728	4.831ug/ml	43
53) 2,3,4,6-Tetrachlorophenol	9.51	232	52143	4.702ug/mL	97
54) Diethylphthalate	9.73	149	222962	4.984ug/ml	96
55) 4-Chlorophenyl-phenylether	9.92	204	103012	5.123ug/ml	98
56) Fluorene	9.90	166	204503	4.974ug/ml	98
58) 4-Nitroaniline	9.92	138	53909	5.431ug/ml	87
60) 4,6-Dinitro-2-methylphenol	9.99	198	38340	4.397ug/ml	88
62) N-Nitrosodiphenylamine	10.12	169	155198	5.126ug/ml	94
63) 4-Bromophenyl-phenyl ether	10.79	248	57933	5.222ug/ml	96
64) Hexachlorobenzene	10.87	284	62082	5.221ug/ml	88
65) Atrazine	11.11	200	58567	5.147ug/ml	95
66) Pentachlorophenol	11.23	266	32084	4.444ug/ml	95
67) Phenanthrene	11.62	178	290148	4.944ug/ml	99
68) Anthracene	11.72	178	302592	5.005ug/ml	99
70) Carbazole	12.02	167	266112	5.931ug/mL	98
71) Di-n-butylphthalate	12.75	149	402054	5.004ug/ml	99
72) Fluoranthene	13.77	202	320358	5.014ug/ml	98
74) Pyrene	14.12	202	343819	4.983ug/ml	98
76) Butylbenzylphthalate	15.09	149	177132	4.853ug/ml	92
77) 3,3'-Dichlorobenzidine	15.73	252	105467	6.849ug/ml	98
78) Benzo(a)anthracene	15.76	228	324540	5.074ug/ml	99
79) Chrysene	15.80	228	291253	4.917ug/ml	98
80) Bis-(2-ethylhexyl)phthalat	15.83	149	264149	4.975ug/ml	97

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV03S05.D Vial: 3
Acq On : 06/20/2015 11:10 Operator: DJC
Sample : SSTD005GV 28435 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 11:37:32 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.77	149	453597	4.837ug/ml	97
83) Benzo(b)fluoranthene	17.41	252	290099	5.072ug/ml	96
84) Benzo(k)fluoranthene	17.46	252	273588	4.782ug/ml	96
85) Benzo(a)pyrene	18.03	252	277277	4.991ug/ml	96
87) Indeno(1,2,3-c,d)pyrene	20.83	276	230698	4.833ug/ml	94
88) Dibenzo(a,h)anthracene	20.91	278	236955	4.906ug/ml	97
89) Benzo(g,h,i)perylene	21.65	276	234244	4.872ug/ml	95

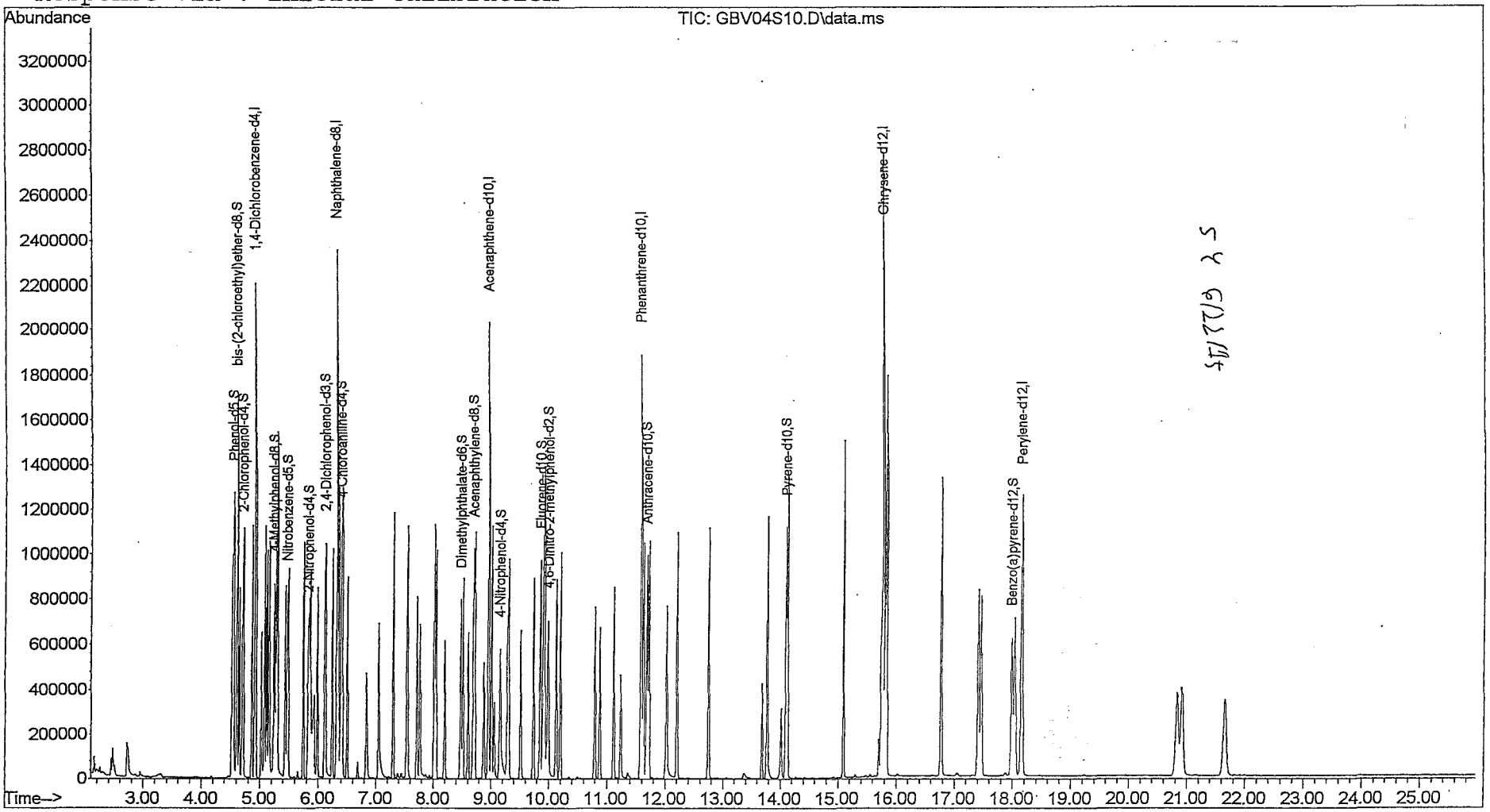
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV04S10.D Vial: 2
Acq On : 06/20/2015 11:43 Operator: DJC
Sample : SSTD010GV 28435 (2) Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 20 13:34:47 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration



SV GBV04S

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV04S10.D Vial: 2
Acq On : 06/20/2015 11:43 Operator: DJC
Sample : SSTD010GV 28435 (2) Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:34:47 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.91	152	318533	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1191498	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	663751	20.00 ug/ml
59) Phenanthrene-d10	11.58	188	1075639	20.00 ug/ml
73) Chrysene-d12	15.77	240	1041150	20.00 ug/ml
81) Perylene-d12	18.16	264	908046	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.53	99	292259	10.483ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	222448	10.277ug/mL
7) 2-Chlorophenol-d4	4.70	132	239471	10.172ug/ml
13) 4-Methylphenol-d8	5.23	113	189387	10.190ug/mL
17) Nitrobenzene-d5	5.46	128	107581	10.205ug/ml
21) 2-Nitrophenol-d4	5.82	143	113837	10.103ug/mL
25) 2,4-Dichlorophenol-d3	6.11	165	180091	10.448ug/mL
28) 4-Chloroaniline-d4	6.39	131	226156	11.127ug/mL
42) Dimethylphthalate-d6	8.47	166	428438	10.205ug/mL
45) Acenaphthylene-d8	8.69	160	587588	10.258ug/mL
50) 4-Nitrophenol-d4	9.15	143	84548	9.932ug/mL
57) Fluorene-d10	9.85	176	372564	10.406ug/mL
61) 4,6-Dinitro-2-methylphenol	9.98	200	74001	10.147ug/mL
69) Anthracene-d10	11.68	188	593036	10.365ug/mL
75) Pyrene-d10	14.09	212	543513	10.555ug/mL
86) Benzo(a)pyrene-d12	17.99	264	443135	10.274ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.52	77	188233	10.028ug/ml	87
4) Phenol	4.55	94	308962	10.275ug/ml	81
5) Bis(2-chloroethyl)ether	4.65	93	250903	10.070ug/ml	88
8) 2-Chlorophenol	4.71	128	232331	10.387ug/ml	83
9) 2-Methylphenol	5.11	108	217746	10.322ug/ml	98
10) 2,2'-Oxybis-(1-chloropropa	5.15	45	618550	10.281ug/ml	100
11) Acetophenone	5.30	105	318431	10.217ug/ml	78
12) 4-methylphenol	5.26	108	236285	10.433ug/ml	99
14) N-Nitroso-di-n-propylamine	5.29	70	173250	10.214ug/ml	75
15) Hexachloroethane	5.43	117	115311	10.333ug/ml	100
18) Nitrobenzene	5.48	77	280809	10.256ug/ml	87
19) Isophorone	5.74	82	483893	10.195ug/ml	90
20) 2-Nitrophenol	5.84	139	127383	10.131ug/ml	60
22) 2,4-Dimethylphenol	5.86	107	242052	10.271ug/ml	83
23) Bis(2-chloroethoxy)methane	5.98	93	297389	10.357ug/ml	97
24) 2,4-Dichlorophenol	6.12	162	193219	10.269ug/ml	97
26) Naphthalene	6.35	128	627662	10.116ug/ml	99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 00591

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV04S10.D Vial: 2
Acq On : 06/20/2015 11:43 Operator: DJC
Sample : SSTD010GV 28435 (2) Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:34:47 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.40	127	239508	10.946ug/ml	89
29)	Hexachlorobutadiene	6.50	225	128121	10.028ug/ml	98
30)	Caprolactam	6.83	113	66807	9.999ug/ml	37
31)	4-Chloro-3-methylphenol	7.05	107	209212	10.371ug/ml	92
32)	2-Methylnaphthalene	7.30	142	402218	10.323ug/ml	98
34)	1,2,4,5-Tetrachlorobenzene	7.55	216	191894	10.167ug/mL	97
35)	Hexachlorocyclopentadiene	7.53	237	135610	10.160ug/ml	99
36)	2,4,6-Trichlorophenol	7.72	196	142595	10.297ug/ml	99
37)	2,4,5-Trichlorophenol	7.77	196	138410	10.428ug/ml	98
38)	1,1'-Biphenyl	8.01	154	470713	10.320ug/ml	98
39)	2-Chloronaphthalene	8.05	162	406989	10.408ug/ml	96
40)	2-Nitroaniline	8.19	65	164640	10.594ug/ml	75
41)	Dimethylphthalate	8.51	163	447385	10.218ug/ml	99
43)	2,6-Dinitrotoluene	8.60	165	101204	10.114ug/ml	91
44)	Acenaphthylene	8.72	152	635006	10.287ug/ml	99
46)	3-Nitroaniline	8.87	138	101441	13.048ug/ml	87
47)	Acenaphthene	9.01	153	383058	10.280ug/ml	95
48)	2,4-Dinitrophenol	9.06	184	58992	9.318ug/ml	100
49)	4-Nitrophenol	9.16	109	66735	10.077ug/ml	78
51)	Dibenzofuran	9.30	168	507943	10.198ug/ml	98
52)	2,4-Dinitrotoluene	9.28	165	138252	10.341ug/ml	49
53)	2,3,4,6-Tetrachlorophenol	9.52	232	114007	10.393ug/mL	99
54)	Diethylphthalate	9.73	149	461580	10.235ug/ml	97
55)	4-Chlorophenyl-phenylether	9.92	204	209767	10.252ug/ml	99
56)	Fluorene	9.90	166	428352	10.341ug/ml	98
58)	4-Nitroaniline	9.93	138	107427	10.724ug/ml	78
60)	4,6-Dinitro-2-methylphenol	9.99	198	88036	10.076ug/ml	92
62)	N-Nitrosodiphenylamine	10.12	169	319596	10.447ug/ml	95
63)	4-Bromophenyl-phenyl ether	10.79	248	117649	10.429ug/ml	99
64)	Hexachlorobenzene	10.87	284	124327	10.282ug/ml	91
65)	Atrazine	11.12	200	118399	10.284ug/ml	98
66)	Pentachlorophenol	11.23	266	73387	10.145ug/ml	98
67)	Phenanthrene	11.63	178	610508	10.421ug/ml	99
68)	Anthracene	11.72	178	624774	10.309ug/ml	99
70)	Carbazole	12.02	167	524378	10.981ug/mL	99
71)	Di-n-butylphthalate	12.75	149	826688	10.265ug/ml	100
72)	Fluoranthene	13.77	202	669933	10.454ug/ml	97
74)	Pyrene	14.12	202	700932	10.420ug/ml	98
76)	Butylbenzylphthalate	15.09	149	363932	10.317ug/ml	91
77)	3,3'-Dichlorobenzidine	15.74	252	163280	9.672ug/ml	97
78)	Benzo(a)anthracene	15.76	228	652713	10.405ug/ml	99
79)	Chrysene	15.81	228	600784	10.449ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.83	149	539931	10.436ug/ml	98

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV04S10.D Vial: 2
Acq On : 06/20/2015 11:43 Operator: DJC
Sample : SSTD010GV 28435 (2) Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:34:47 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.77	149	941255	10.414ug/ml	97
83) Benzo(b)fluoranthene	17.41	252	584927	10.445ug/ml	97
84) Benzo(k)fluoranthene	17.46	252	557722	10.151ug/ml	96
85) Benzo(a)pyrene	18.03	252	548322	10.134ug/ml	97
87) Indeno(1,2,3-c,d)pyrene	20.83	276	473777	10.301ug/ml	92
88) Dibenzo(a,h)anthracene	20.92	278	478543	10.231ug/ml	97
89) Benzo(g,h,i)perylene	21.66	276	475293	10.232ug/ml	95

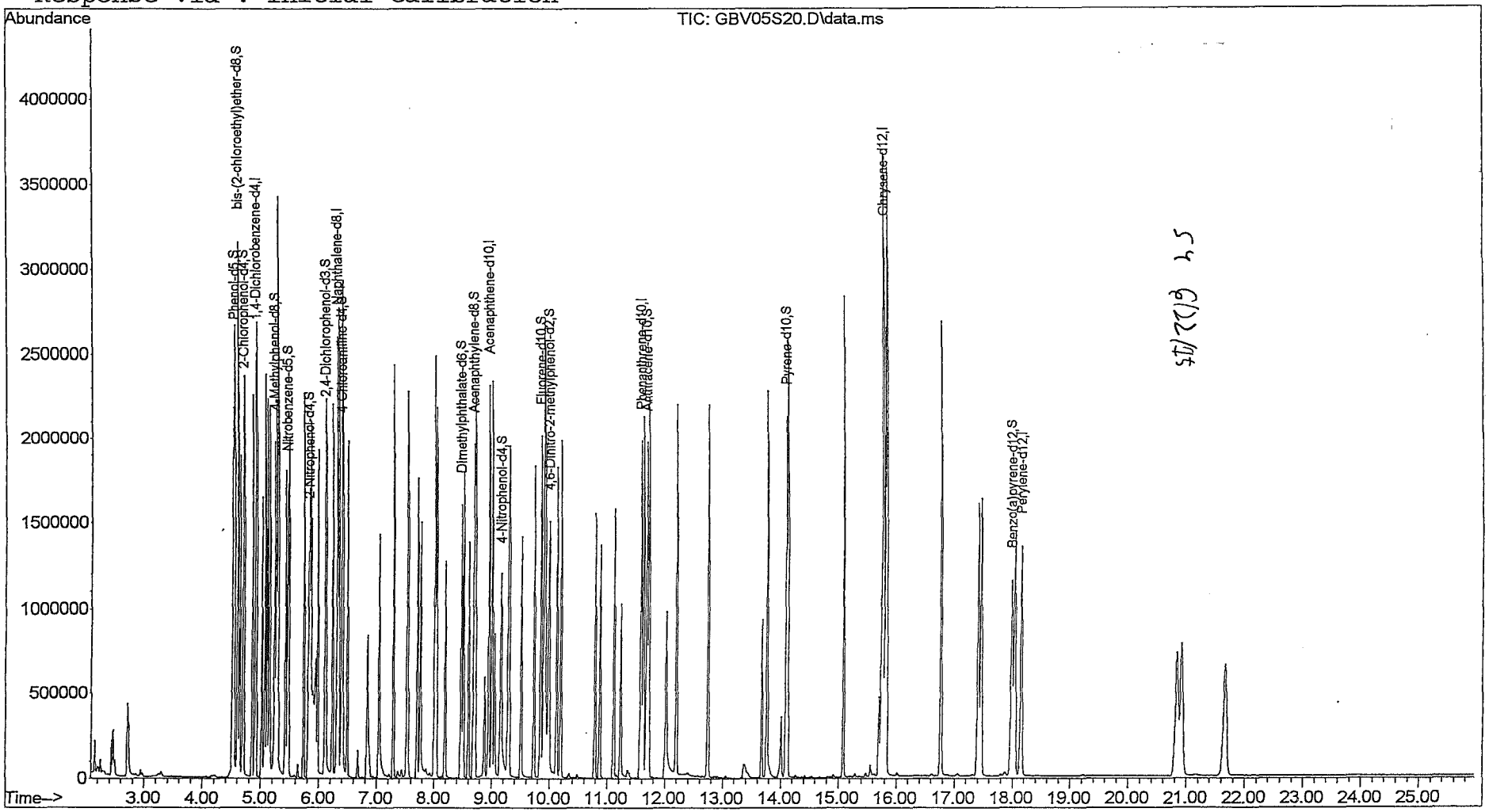
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV05S20.D Vial: 1
Acq On : 06/20/2015 12:16 Operator: DJC
Sample : SSTD020GV 28435 DFTPPGV Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 20 13:39:18 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration



GBV05S20.D GSOM01D6.M Sat Jun 20 13:57:27 2015 Page 4

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV05S20.D Vial: 1
Acq On : 06/20/2015 12:16 Operator: DJC
Sample : SSTD020GV 28435 DFTPPGV Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:39:18 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.91	152	362165	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1346042	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	732429	20.00 ug/ml
59) Phenanthrene-d10	11.59	188	1168838	20.00 ug/ml
73) Chrysene-d12	15.78	240	1108274	20.00 ug/ml
81) Perylene-d12	18.16	264	964923	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.53	99	614121	19.393ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	472137	19.309ug/mL
7) 2-Chlorophenol-d4	4.70	132	526220	19.841ug/ml
13) 4-Methylphenol-d8	5.24	113	403377	19.286ug/mL
17) Nitrobenzene-d5	5.46	128	229096	19.237ug/ml
21) 2-Nitrophenol-d4	5.83	143	237986	18.836ug/mL
25) 2,4-Dichlorophenol-d3	6.11	165	378394	19.329ug/mL
28) 4-Chloroaniline-d4	6.39	131	349406	15.278ug/mL
42) Dimethylphthalate-d6	8.47	166	879657	19.107ug/mL
45) Acenaphthylene-d8	8.69	160	1215219	19.202ug/mL
50) 4-Nitrophenol-d4	9.16	143	180114	19.659ug/mL
57) Fluorene-d10	9.85	176	762339	19.349ug/mL
61) 4,6-Dinitro-2-methylphenol	9.99	200	160430	20.089ug/mL
69) Anthracene-d10	11.69	188	1217962	19.517ug/mL
75) Pyrene-d10	14.09	212	1090069	19.744ug/mL
86) Benzo(a)pyrene-d12	17.99	264	892866	19.566ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.52	77	438276	20.631ug/ml 84
4) Phenol	4.55	94	665060	19.550ug/ml 84
5) Bis(2-chloroethyl)ether	4.65	93	554170	19.779ug/ml 90
8) 2-Chlorophenol	4.72	128	492261	19.421ug/ml 82
9) 2-Methylphenol	5.12	108	448243	18.790ug/ml 99
10) 2,2'-Oxybis-(1-chloropropa	5.15	45	1330606	19.536ug/ml 100
11) Acetophenone	5.30	105	669143	19.021ug/ml 80
12) 4-methylphenol	5.27	108	496885	19.376ug/ml 100
14) N-Nitroso-di-n-propylamine	5.29	70	361819	18.874ug/ml 74
15) Hexachloroethane	5.43	117	248815	19.643ug/ml 99
18) Nitrobenzene	5.49	77	599146	19.346ug/ml 86
19) Isophorone	5.75	82	1019288	19.163ug/ml 90
20) 2-Nitrophenol	5.85	139	264103	18.736ug/ml 62
22) 2,4-Dimethylphenol	5.86	107	509828	19.157ug/ml 82
23) Bis(2-chloroethoxy)methane	5.99	93	624979	19.260ug/ml 97
24) 2,4-Dichlorophenol	6.13	162	400527	18.925ug/ml 97
26) Naphthalene	6.35	128	1327473	19.043ug/ml 100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV05S20.D Vial: 1
Acq On : 06/20/2015 12:16 Operator: DJC
Sample : SSTD020GV 28435 DFTPPGV Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:39:18 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.40	127	409220	16.586ug/ml	89
29)	Hexachlorobutadiene	6.50	225	271322	18.802ug/ml	99
30)	Caprolactam	6.85	113	140186	18.780ug/ml	39
31)	4-Chloro-3-methylphenol	7.05	107	438279	19.188ug/ml	90
32)	2-Methylnaphthalene	7.30	142	827753	18.766ug/ml	97
34)	1,2,4,5-Tetrachlorobenzene	7.55	216	400331	19.240ug/mL	98
35)	Hexachlorocyclopentadiene	7.53	237	303920	20.748ug/ml	99
36)	2,4,6-Trichlorophenol	7.72	196	300906	19.577ug/ml	99
37)	2,4,5-Trichlorophenol	7.77	196	294314	20.195ug/ml	99
38)	1,1'-Biphenyl	8.02	154	985351	19.602ug/ml	96
39)	2-Chloronaphthalene	8.05	162	841300	19.369ug/ml	96
40)	2-Nitroaniline	8.20	65	337016	19.448ug/ml	76
41)	Dimethylphthalate	8.52	163	921683	19.200ug/ml	99
43)	2,6-Dinitrotoluene	8.61	165	211268	19.364ug/ml	90
44)	Acenaphthylene	8.72	152	1310080	19.324ug/ml	99
46)	3-Nitroaniline	8.88	138	122455	14.842ug/ml	82
47)	Acenaphthene	9.01	153	788072	19.182ug/ml	94
48)	2,4-Dinitrophenol	9.06	184	137969	20.461ug/ml	100
49)	4-Nitrophenol	9.17	109	138666	19.306ug/ml	80
51)	Dibenzofuran	9.31	168	1041601	19.100ug/ml	97
52)	2,4-Dinitrotoluene	9.29	165	278006	18.937ug/ml	43
53)	2,3,4,6-Tetrachlorophenol	9.52	232	236802	19.690ug/mL	98
54)	Diethylphthalate	9.74	149	939877	19.003ug/ml	97
55)	4-Chlorophenyl-phenylether	9.92	204	432806	19.226ug/ml	98
56)	Fluorene	9.90	166	870676	19.135ug/ml	99
58)	4-Nitroaniline	9.94	138	194899	18.146ug/ml	73
60)	4,6-Dinitro-2-methylphenol	10.00	198	184750	19.479ug/ml	89
62)	N-Nitrosodiphenylamine	10.13	169	651086	19.509ug/ml	94
63)	4-Bromophenyl-phenyl ether	10.79	248	240799	19.419ug/ml	99
64)	Hexachlorobenzene	10.88	284	258039	19.631ug/ml	90
65)	Atrazine	11.12	200	233733	18.768ug/ml	98
66)	Pentachlorophenol	11.24	266	158569	20.001ug/ml	99
67)	Phenanthrene	11.63	178	1233823	19.348ug/ml	100
68)	Anthracene	11.72	178	1256376	19.121ug/ml	99
70)	Carbazole	12.03	167	782799	15.223ug/mL	97
71)	Di-n-butylphthalate	12.75	149	1653429	18.950ug/ml	100
72)	Fluoranthene	13.77	202	1348111	19.310ug/ml	98
74)	Pyrene	14.13	202	1403033	19.608ug/ml	98
76)	Butylbenzylphthalate	15.09	149	732411	19.543ug/ml	91
77)	3,3'-Dichlorobenzidine	15.74	252	248083	14.613ug/ml	99
78)	Benzo(a)anthracene	15.76	228	1300807	19.484ug/ml	99
79)	Chrysene	15.81	228	1186136	19.395ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.83	149	1078068	19.567ug/ml	96

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV05S20.D Vial: 1
Acq On : 06/20/2015 12:16 Operator: DJC
Sample : SSTD020GV 28435 DFTPPGV Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:39:18 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.77	149	1871684	19.466ug/ml	97
83) Benzo(b)fluoranthene	17.42	252	1174571	19.625ug/ml	96
84) Benzo(k)fluoranthene	17.46	252	1129002	19.557ug/ml	97
85) Benzo(a)pyrene	18.04	252	1100231	19.272ug/ml	96
87) Indeno(1,2,3-c,d)pyrene	20.84	276	979203	20.077ug/ml	91
88) Dibenzo(a,h)anthracene	20.93	278	971499	19.666ug/ml	96
89) Benzo(g,h,i)perylene	21.68	276	947001	19.285ug/ml	96

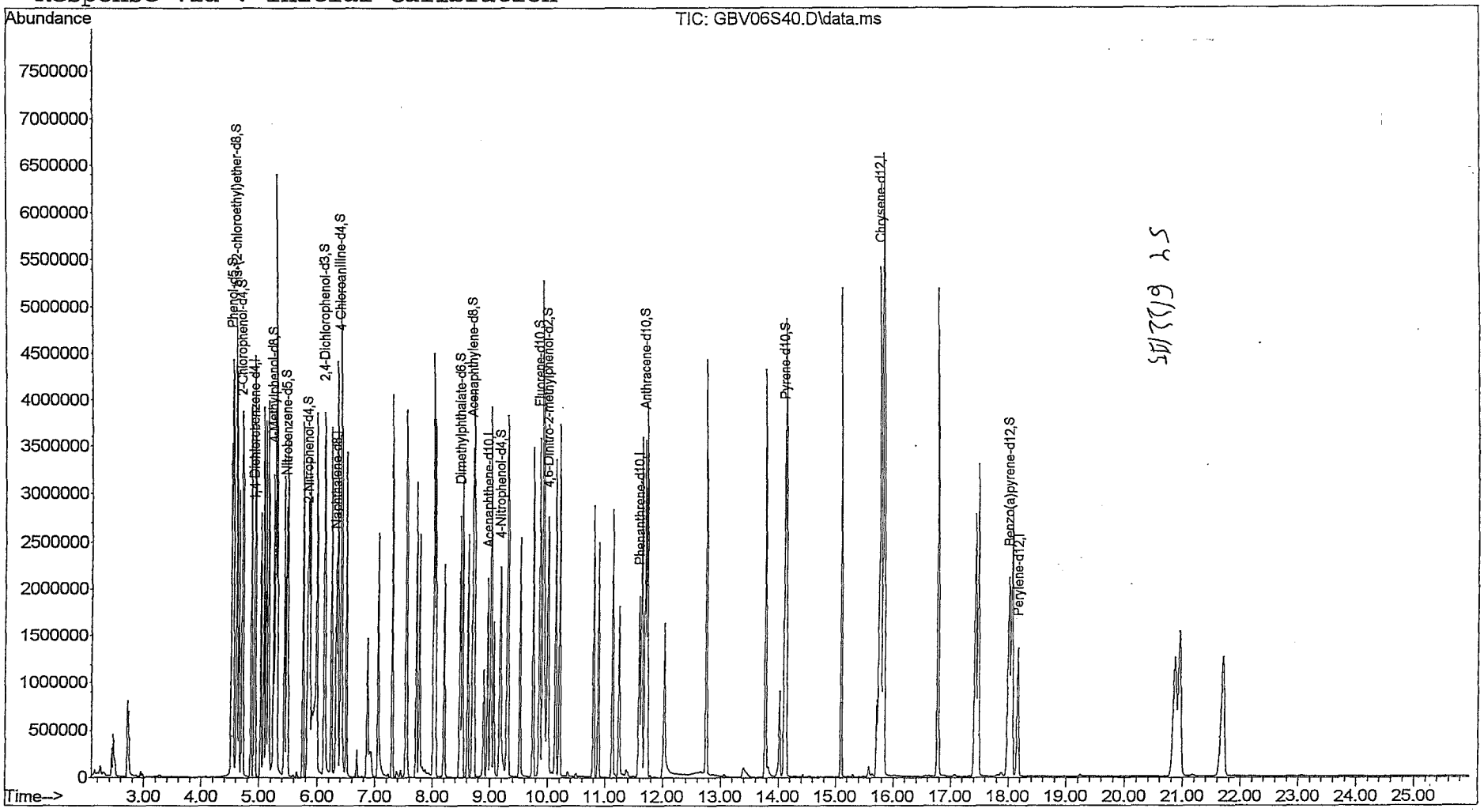
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV06S40.D Vial: 4
Acq On : 06/20/2015 12:49 Operator: DJC
Sample : SSTD040GV 28436 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 20 13:43:01 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV06S40.D Vial: 4
Acq On : 06/20/2015 12:49 Operator: DJC
Sample : SSTD040GV 28436 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:43:01 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.91	152	317040	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1190017	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	678332	20.00 ug/ml
59) Phenanthrene-d10	11.59	188	1128340	20.00 ug/ml
73) Chrysene-d12	15.78	240	1086729	20.00 ug/ml
81) Perylene-d12	18.16	264	965896	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.54	99	1053993	37.978ug/ml
6) bis-(2-chloroethyl)ether-d	4.61	67	813522	37.833ug/mL
7) 2-Chlorophenol-d4	4.70	132	890751	38.035ug/ml
13) 4-Methylphenol-d8	5.25	113	717254	39.427ug/mL
17) Nitrobenzene-d5	5.47	128	394182	37.443ug/ml
21) 2-Nitrophenol-d4	5.83	143	417440	37.552ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	654443	37.885ug/mL
28) 4-Chloroaniline-d4	6.40	131	646635	31.536ug/mL
42) Dimethylphthalate-d6	8.48	166	1623618	38.160ug/mL
45) Acenaphthylene-d8	8.70	160	2178895	37.341ug/mL
50) 4-Nitrophenol-d4	9.17	143	337084	39.701ug/mL
57) Fluorene-d10	9.86	176	1378462	37.745ug/mL
61) 4,6-Dinitro-2-methylphenol	9.99	200	308621	39.806ug/mL
69) Anthracene-d10	11.69	188	2240412	36.913ug/mL
75) Pyrene-d10	14.10	212	2046995	37.601ug/mL
86) Benzo(a)pyrene-d12	18.00	264	1765776	38.551ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.52	77	808664	43.312ug/ml	84
4) Phenol	4.55	94	1148617	38.474ug/ml	84
5) Bis(2-chloroethyl)ether	4.65	93	964657	39.558ug/ml	86
8) 2-Chlorophenol	4.72	128	831786	37.368ug/ml	82
9) 2-Methylphenol	5.12	108	742723	35.722ug/ml	97
10) 2,2'-Oxybis-(1-chloropropa	5.16	45	2392860	40.019ug/ml	100
11) Acetophenone	5.30	105	1202468	39.119ug/ml	77
12) 4-methylphenol	5.27	108	834459	37.005ug/ml	98
14) N-Nitroso-di-n-propylamine	5.30	70	654182	39.299ug/ml	74
15) Hexachloroethane	5.43	117	437033	39.333ug/ml	100
18) Nitrobenzene	5.49	77	1084949	39.538ug/ml	86
19) Isophorone	5.75	82	1868247	39.786ug/ml	90
20) 2-Nitrophenol	5.85	139	471302	38.034ug/ml	63
22) 2,4-Dimethylphenol	5.86	107	892936	37.928ug/ml	87
23) Bis(2-chloroethoxy)methane	5.99	93	1129056	39.295ug/ml	99
24) 2,4-Dichlorophenol	6.13	162	707960	38.143ug/ml	96
26) Naphthalene	6.35	128	2260915	36.750ug/ml	99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV06S40.D Vial: 4
Acq On : 06/20/2015 12:49 Operator: DJC
Sample : SSTD040GV 28436 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:43:01 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27) 4-Chloroaniline	6.41	127	732626	33.118ug/ml	88
29) Hexachlorobutadiene	6.50	225	491403	38.909ug/ml	99
30) Caprolactam	6.87	113	281720	43.424ug/ml m SY	40
31) 4-Chloro-3-methylphenol	7.05	107	798754	39.818ug/ml 6/22/15	90
32) 2-Methylnaphthalene	7.30	142	1417769	36.574ug/ml	98
34) 1,2,4,5-Tetrachlorobenzene	7.55	216	709316	36.720ug/mL	99
35) Hexachlorocyclopentadiene	7.53	237	567109	41.720ug/ml	99
36) 2,4,6-Trichlorophenol	7.72	196	546717	38.578ug/ml	98
37) 2,4,5-Trichlorophenol	7.77	196	551225	40.542ug/ml	97
38) 1,1'-Biphenyl	8.02	154	1837236	39.291ug/ml	96
39) 2-Chloronaphthalene	8.05	162	1534212	38.088ug/ml	96
40) 2-Nitroaniline	8.20	65	603413	37.211ug/ml	77
41) Dimethylphthalate	8.52	163	1742090	39.358ug/ml	100
43) 2,6-Dinitrotoluene	8.62	165	397732	39.648ug/ml	91
44) Acenaphthylene	8.72	152	2322997	36.991ug/ml	100
46) 3-Nitroaniline	8.89	138	255477	31.860ug/ml	86
47) Acenaphthene	9.02	153	1397013	36.740ug/ml	94
48) 2,4-Dinitrophenol	9.06	184	277087	44.628ug/ml	100
49) 4-Nitrophenol	9.18	109	257579	38.905ug/ml	78
51) Dibenzofuran	9.31	168	1788305	35.450ug/ml	96
52) 2,4-Dinitrotoluene	9.30	165	529489	39.363ug/ml	48
53) 2,3,4,6-Tetrachlorophenol	9.52	232	440595	39.607ug/mL	98
54) Diethylphthalate	9.75	149	1852049	40.649ug/ml	95
55) 4-Chlorophenyl-phenylether	9.92	204	795096	38.025ug/ml	99
56) Fluorene	9.91	166	1534355	36.451ug/ml	99
58) 4-Nitroaniline	9.95	138	305936	30.588ug/ml	79
60) 4,6-Dinitro-2-methylphenol	10.00	198	367929	40.538ug/ml	92
62) N-Nitrosodiphenylamine	10.13	169	1236845	38.026ug/ml	93
63) 4-Bromophenyl-phenyl ether	10.80	248	469497	38.970ug/ml	98
64) Hexachlorobenzene	10.89	284	493347	38.394ug/ml	89
65) Atrazine	11.13	200	454648	37.872ug/ml	97
66) Pentachlorophenol	11.24	266	305854	39.845ug/ml	98
67) Phenanthrene	11.63	178	2250039	36.567ug/ml	99
68) Anthracene	11.73	178	2277268	35.996ug/ml	99
70) Carbazole	12.03	167	1318041	26.585ug/mL	98
71) Di-n-butylphthalate	12.75	149	3254347	38.889ug/ml	100
72) Fluoranthene	13.77	202	2480769	36.717ug/ml	98
74) Pyrene	14.13	202	2583145	36.553ug/ml	98
76) Butylbenzylphthalate	15.10	149	1466357	39.996ug/ml	92
77) 3,3'-Dichlorobenzidine	15.74	252	535793	31.707ug/ml	99
78) Benzo(a)anthracene	15.77	228	2491911	37.750ug/ml	98
79) Chrysene	15.82	228	2251803	37.487ug/ml	99
80) Bis-(2-ethylhexyl)phthalat	15.83	149	2100766	38.656ug/ml	97

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

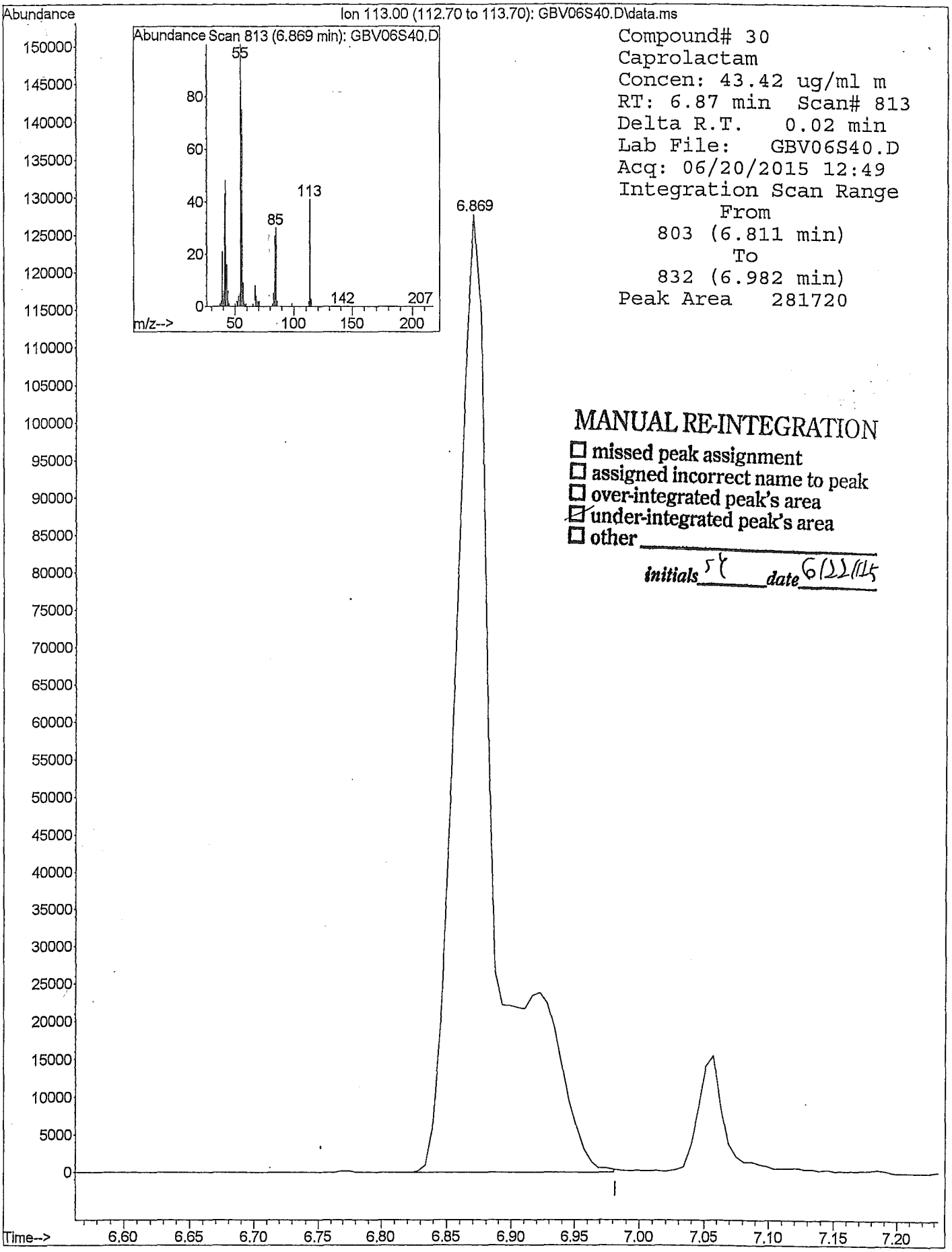
Data File : C:\msdchem\1\data\20...15\20JUN15\GBV06S40.D Vial: 4
Acq On : 06/20/2015 12:49 Operator: DJC
Sample : SSTD040GV 28436 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:43:01 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.77	149	3788412	39.486ug/ml	97
83) Benzo(b)fluoranthene	17.42	252	2227045	36.883ug/ml	97
84) Benzo(k)fluoranthene	17.47	252	2188343	38.048ug/ml	96
85) Benzo(a)pyrene	18.06	252	2160883	37.938ug/ml	96
87) Indeno(1,2,3-c,d)pyrene	20.86	276	1952060	39.776ug/ml	90
88) Dibenzo(a,h)anthracene	20.94	278	1932994	39.011ug/ml	96
89) Benzo(g,h,i)perylene	21.70	276	1907457	39.057ug/ml	94

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

M A N U A L I N T E G R A T I O N FOR Caprolactam



Compound# 30
Caprolactam
Concen: 43.42 ug/ml m
RT: 6.87 min Scan# 813
Delta R.T. 0.02 min
Lab File: GBV06S40.D
Acq: 06/20/2015 12:49
Integration Scan Range
From
803 (6.811 min)
To
832 (6.982 min)
Peak Area 281720

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☑ under-integrated peak's area
- ☐ other _____

initials SY *date* 6/22/15

GSOM01D6.M 5975-G GSOM01D6.M SSTD040GV 28436 . X07/19/15

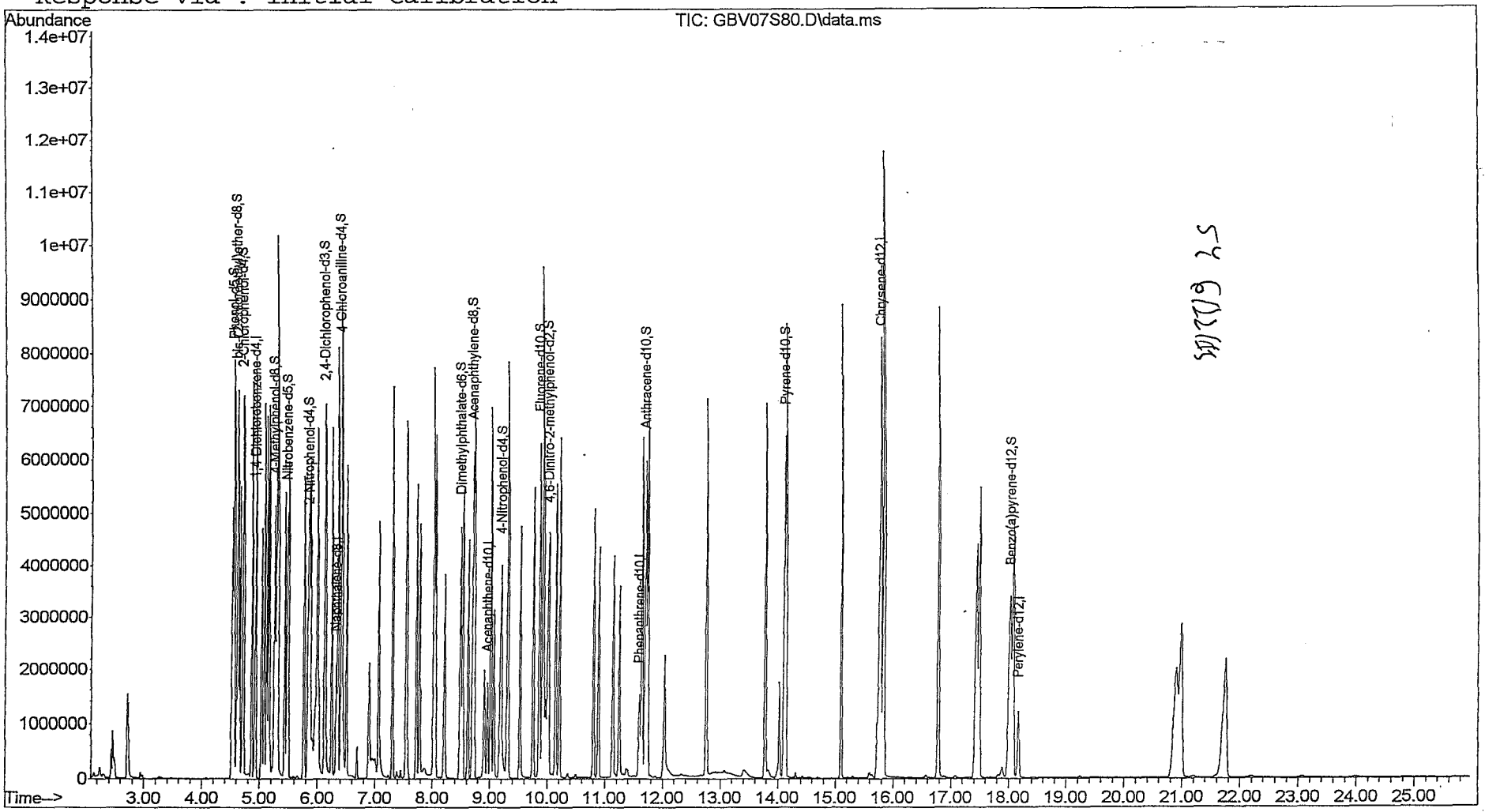
: 00592

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV07S80.D Vial: 5
Acq On : 06/20/2015 13:22 Operator: DJC
Sample : SSTD080GV 28437 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 20 13:50:11 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV07S80.D Vial: 5
Acq On : 06/20/2015 13:22 Operator: DJC
Sample : SSTD080GV 28437 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:50:11 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.92	152	277225	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1035637	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	585961	20.00 ug/ml
59) Phenanthrene-d10	11.59	188	969286	20.00 ug/ml
73) Chrysene-d12	15.79	240	923361	20.00 ug/ml
81) Perylene-d12	18.17	264	834009	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.55	99	1982464	82.738ug/ml
6) bis-(2-chloroethyl)ether-d	4.62	67	1584805	85.443ug/mL
7) 2-Chlorophenol-d4	4.70	132	1675146	82.819ug/ml
13) 4-Methylphenol-d8	5.25	113	1382291	87.209ug/mL
17) Nitrobenzene-d5	5.47	128	754213	83.658ug/ml
21) 2-Nitrophenol-d4	5.83	143	798149	83.784ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	1242468	83.755ug/mL
28) 4-Chloroaniline-d4	6.40	131	1129750	66.847ug/mL
42) Dimethylphthalate-d6	8.49	166	3071539	84.543ug/mL
45) Acenaphthylene-d8	8.70	160	4111703	82.951ug/mL
50) 4-Nitrophenol-d4	9.19	143	642810	87.863ug/mL
57) Fluorene-d10	9.86	176	2598661	83.551ug/mL
61) 4,6-Dinitro-2-methylphenol	10.01	200	605664	91.085ug/mL
69) Anthracene-d10	11.70	188	4198026	82.100ug/mL
75) Pyrene-d10	14.11	212	3852147	84.547ug/mL
86) Benzo(a)pyrene-d12	18.02	264	3444382	87.887ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.52	77	1229123	73.760ug/ml	88
4) Phenol	4.56	94	2097381	81.117ug/ml	83
5) Bis(2-chloroethyl)ether	4.65	93	1785514	83.967ug/ml	87
8) 2-Chlorophenol	4.72	128	1537499	80.313ug/ml	80
9) 2-Methylphenol	5.12	108	1398916	79.059ug/ml	97
10) 2,2'-Oxybis-(1-chloropropa	5.16	45	4344811	83.091ug/ml	100
11) Acetophenone	5.31	105	2066760	77.318ug/ml	43
12) 4-methylphenol	5.28	108	1564158	80.840ug/ml	98
14) N-Nitroso-di-n-propylamine	5.32	70	1164951	80.386ug/ml	76
15) Hexachloroethane	5.43	117	792100	81.870ug/ml	99
18) Nitrobenzene	5.49	77	1943781	81.630ug/ml	86
19) Isophorone	5.76	82	3410093	83.559ug/ml	90
20) 2-Nitrophenol	5.85	139	869006	81.585ug/ml	62
22) 2,4-Dimethylphenol	5.87	107	1651866	81.680ug/ml	86
23) Bis(2-chloroethoxy)methane	5.99	93	2010222	80.748ug/ml	100
24) 2,4-Dichlorophenol	6.13	162	1289184	80.749ug/ml	96
26) Naphthalene	6.35	128	4157812	79.268ug/ml	100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV07S80.D Vial: 5
Acq On : 06/20/2015 13:22 Operator: DJC
Sample : SSTD080GV 28437 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:50:11 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.42	127	1371977	74.468ug/ml	88
29)	Hexachlorobutadiene	6.50	225	889645	81.499ug/ml	99
30)	Caprolactam	6.90	113	488213	84.658ug/ml m SY 6/22/15	44
31)	4-Chloro-3-methylphenol	7.06	107	1488509	85.361ug/ml	90
32)	2-Methylnaphthalene	7.30	142	2688249	81.430ug/ml	98
34)	1,2,4,5-Tetrachlorobenzene	7.56	216	1297848	79.407ug/mL	98
35)	Hexachlorocyclopentadiene	7.54	237	1026104	86.457ug/ml	99
36)	2,4,6-Trichlorophenol	7.72	196	1021200	84.166ug/ml	99
37)	2,4,5-Trichlorophenol	7.78	196	1032676	87.628ug/ml	99
38)	1,1'-Biphenyl	8.02	154	3095265	76.971ug/ml	97
39)	2-Chloronaphthalene	8.05	162	2684690	78.089ug/ml	97
40)	2-Nitroaniline	8.22	65	1197493	87.522ug/ml	76
41)	Dimethylphthalate	8.53	163	3158299	82.934ug/ml	99
43)	2,6-Dinitrotoluene	8.63	165	717048	82.929ug/ml	90
44)	Acenaphthylene	8.73	152	4177815	78.491ug/ml	99
46)	3-Nitroaniline	8.91	138	486176	75.295ug/ml	82
47)	Acenaphthene	9.02	153	2557862	79.493ug/ml	94
48)	2,4-Dinitrophenol	9.07	184	537610	96.515ug/ml	100
49)	4-Nitrophenol	9.20	109	497312	87.757ug/ml	77
51)	Dibenzofuran	9.32	168	3378235	79.794ug/ml	96
52)	2,4-Dinitrotoluene	9.31	165	923150	79.764ug/ml	44
53)	2,3,4,6-Tetrachlorophenol	9.53	232	826730	86.245ug/mL	98
54)	Diethylphthalate	9.76	149	3270429	82.759ug/ml	96
55)	4-Chlorophenyl-phenylether	9.93	204	1404998	78.758ug/ml	99
56)	Fluorene	9.92	166	2723242	76.593ug/ml	99
58)	4-Nitroaniline	9.96	138	493564	61.988ug/ml	87
60)	4,6-Dinitro-2-methylphenol	10.02	198	682365	87.128ug/ml	90
62)	N-Nitrosodiphenylamine	10.15	169	2130975	77.219ug/ml	93
63)	4-Bromophenyl-phenyl ether	10.80	248	854214	83.072ug/ml	96
64)	Hexachlorobenzene	10.89	284	906280	82.937ug/ml	88
65)	Atrazine	11.14	200	722049	70.960ug/ml	98
66)	Pentachlorophenol	11.25	266	602487	91.487ug/ml	99
67)	Phenanthrene	11.64	178	4127601	79.801ug/ml	99
68)	Anthracene	11.74	178	4148218	78.288ug/ml	99
70)	Carbazole	12.03	167	1970803	50.509ug/mL	99
71)	Di-n-butylphthalate	12.76	149	5771176	80.843ug/ml	100
72)	Fluoranthene	13.78	202	4595038	80.828ug/ml	97
74)	Pyrene	14.14	202	4710269	80.173ug/ml	97
76)	Butylbenzylphthalate	15.10	149	2574119	82.636ug/ml	89
77)	3,3'-Dichlorobenzidine	15.75	252	1125502	82.673ug/ml	98
78)	Benzo(a)anthracene	15.77	228	4711068	85.193ug/ml	99
79)	Chrysene	15.82	228	4157896	82.765ug/ml	100
80)	Bis-(2-ethylhexyl)phthalat	15.84	149	3613164	78.912ug/ml	97

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00595

Quantitation Report

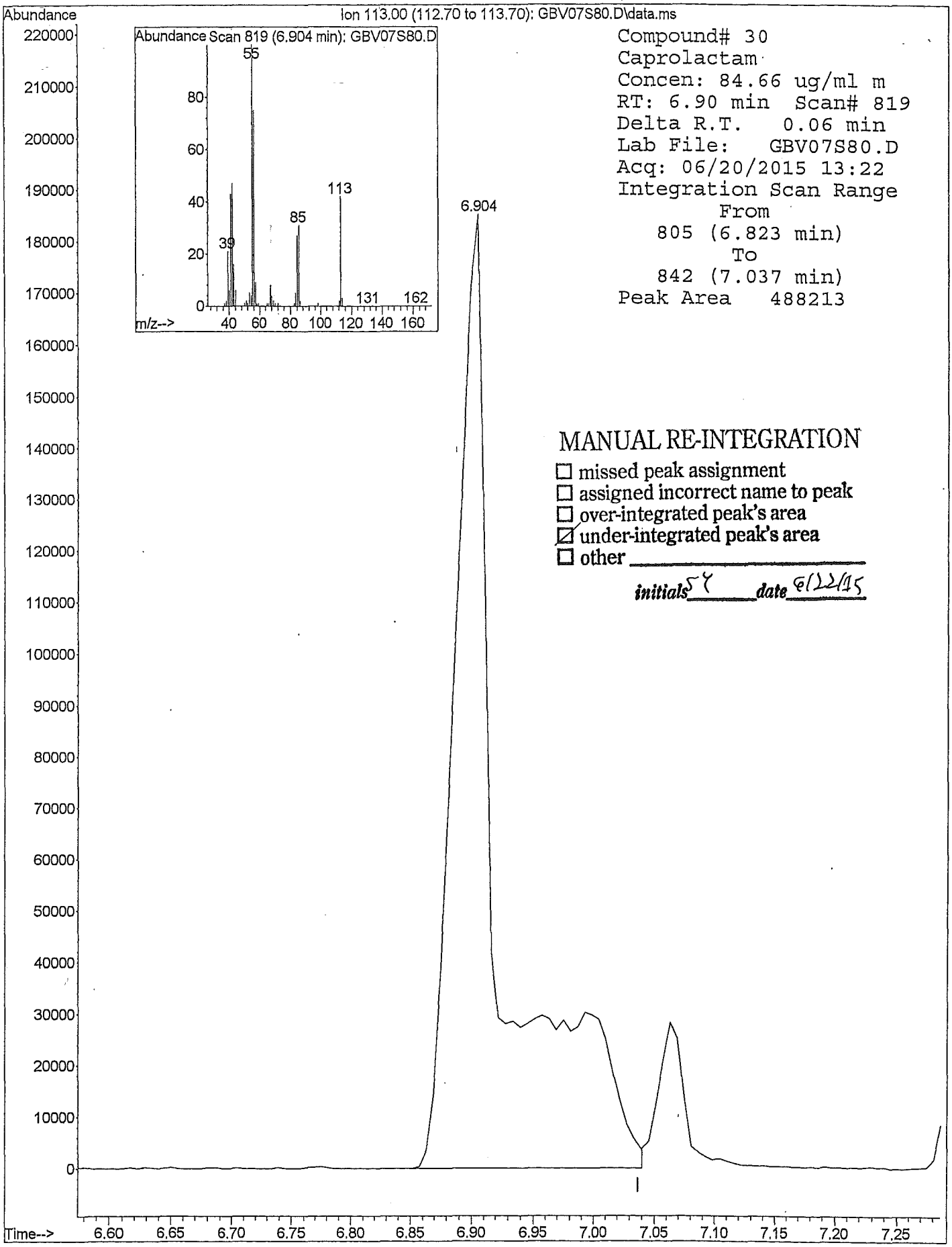
Data File : C:\msdchem\1\data\20...15\20JUN15\GBV07S80.D Vial: 5
Acq On : 06/20/2015 13:22 Operator: DJC
Sample : SSTD080GV 28437 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:50:11 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.78	149	6729262	81.490ug/ml	97
83) Benzo(b)fluoranthene	17.44	252	4536385	88.738ug/ml	96
84) Benzo(k)fluoranthene	17.49	252	4037347	82.300ug/ml	96
85) Benzo(a)pyrene	18.08	252	4128007	85.032ug/ml	96
87) Indeno(1,2,3-c,d)pyrene	20.90	276	3844414	90.850ug/ml	91
88) Dibenzo(a,h)anthracene	20.99	278	3791619	89.174ug/ml	95
89) Benzo(g,h,i)perylene	21.75	276	3702132	88.312ug/ml	94

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

M A N U A L I N T E G R A T I O N FOR Caprolactam



GSOM01D6.M 5975-G GSOM01D6.M SSTD080GV 28437 . X07/19/15

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-G Calibration Date: 06/02/2015 Time: 11:34

Lab File ID: GBC01S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020GC 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	0.783	0.010	-6.5	40.0
Phenol	1.411	1.446	0.800	2.5	25.0
Bis(2-chloroethyl)ether	1.177	1.118	0.700	-5.0	25.0
2-Chlorophenol	1.301	1.359	0.800	4.4	25.0
2-Methylphenol	1.092	1.096	0.700	0.3	25.0
2,2'-Oxybis(1-chloropropane)	1.329	1.233	0.010	-7.2	40.0
Acetophenone	1.566	1.598	0.010	2.0	40.0
4-Methylphenol	1.146	1.163	0.600	1.5	25.0
N-Nitroso-di-n-propylamine	0.687	0.716	0.500	4.1	25.0
Hexachloroethane	0.595	0.609	0.300	2.4	25.0
Nitrobenzene	0.309	0.312	0.200	1.0	25.0
Isophorone	0.535	0.554	0.400	3.5	25.0
2-Nitrophenol	0.197	0.204	0.100	3.4	25.0
2,4-Dimethylphenol	0.307	0.323	0.200	5.3	25.0
Bis(2-chloroethoxy)methane	0.354	0.356	0.300	0.4	25.0
2,4-Dichlorophenol	0.272	0.292	0.200	7.2	25.0
Naphthalene	1.009	1.035	0.700	2.5	25.0
4-Chloroaniline	0.334	0.319	0.010	-4.4	40.0
Hexachlorobutadiene	0.173	0.183	0.010	6.0	40.0
Caprolactam	0.098	0.104	0.010	6.1	40.0
4-Chloro-3-methylphenol	0.266	0.290	0.200	8.8	25.0
2-Methylnaphthalene	0.645	0.651	0.400	1.0	25.0
Hexachlorocyclopentadiene	0.352	0.384	0.010	9.0	40.0
2,4,6-Trichlorophenol	0.351	0.367	0.200	4.4	25.0
2,4,5-Trichlorophenol	0.377	0.380	0.200	0.8	25.0
1,1'-Biphenyl	1.393	1.407	0.010	0.9	40.0
2-Chloronaphthalene	1.081	1.108	0.800	2.5	25.0
2-Nitroaniline	0.284	0.274	0.010	-3.5	40.0
Dimethylphthalate	1.247	1.275	0.010	2.2	40.0
2,6-Dinitrotoluene	0.288	0.306	0.200	6.5	25.0
Acenaphthylene	1.828	1.883	0.900	3.0	25.0
3-Nitroaniline	0.206	0.194	0.010	-5.9	40.0
Acenaphthene	1.126	1.169	0.900	3.8	25.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-G Calibration Date: 06/02/2015 Time: 11:34

Lab File ID: GBC01S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020GC 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	0.163	0.010	6.4	40.0
Dibenzofuran	1.478	1.491	0.800	0.9	25.0
2,4-Dinitrotoluene	0.388	0.418	0.200	7.7	25.0
Diethylphthalate	1.290	1.335	0.010	3.5	40.0
Fluorene	1.226	1.297	0.900	5.8	25.0
4-Chlorophenyl-phenylether	0.582	0.603	0.400	3.7	25.0
4-Nitroaniline	0.238	0.251	0.010	5.2	40.0
4,6-Dinitro-2-methylphenol	0.149	0.153	0.010	3.1	40.0
N-Nitrosodiphenylamine (1)	0.523	0.534	0.010	2.1	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	2.2	25.0
Hexachlorobenzene	0.224	0.237	0.100	5.8	25.0
Atrazine	0.191	0.206	0.010	7.9	40.0
Pentachlorophenol	0.141	0.152	0.050	7.6	25.0
Phenanthrene	1.094	1.115	0.700	1.9	25.0
Anthracene	1.116	1.152	0.700	3.2	25.0
Carbazole	0.675	0.785	0.010	16.3	40.0
Di-n-butylphthalate	1.380	1.432	0.010	3.7	40.0
Fluoranthene	1.128	1.193	0.600	5.7	25.0
Pyrene	1.238	1.287	0.600	3.9	25.0
Butylbenzylphthalate	0.656	0.678	0.010	3.4	40.0
3,3'-Dichlorobenzidine	0.323	0.274	0.010	-15.2	40.0
Benzo(a)anthracene	1.137	1.165	0.800	2.5	25.0
Chrysene	1.032	1.065	0.700	3.3	25.0
Bis(2-ethylhexyl)phthalate	0.965	0.992	0.010	2.7	40.0
Di-n-octylphthalate	1.688	1.762	0.010	4.4	40.0
Benzo(b)fluoranthene	1.163	1.194	0.700	2.7	25.0
Benzo(k)fluoranthene	1.127	1.183	0.700	4.9	25.0
Benzo(a)pyrene	1.121	1.159	0.700	3.4	25.0
Indeno(1,2,3-cd)pyrene	1.099	1.135	0.500	3.2	25.0
Dibenzo(a,h)anthracene	1.128	1.167	0.400	3.5	25.0
Benzo(g,h,i)perylene	1.113	1.142	0.500	2.6	25.0
2,3,4,6-Tetrachlorophenol	0.284	0.309	0.100	8.8	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.: F9L58

Instrument ID: 5975-G Calibration Date: 06/02/2015 Time: 11:34

Lab File ID: GBC01S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020GC 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	1.423	0.010	2.1	25.0
Bis(2-chloroethyl)ether-d8	0.854	0.845	0.010	-1.1	25.0
2-Chlorophenol-d4	1.369	1.400	0.010	2.2	25.0
4-Methylphenol-d8	1.086	1.110	0.010	2.2	25.0
Nitrobenzene-d5	0.168	0.172	0.010	2.5	25.0
2-Nitrophenol-d4	0.187	0.190	0.010	1.4	25.0
2,4-Dichlorophenol-d3	0.274	0.287	0.010	4.8	25.0
4-Chloroaniline-d4	0.297	0.269	0.010	-9.4	40.0
Dimethylphthalate-d6	1.216	1.281	0.010	5.3	40.0
Acenaphthylene-d8	1.623	1.660	0.010	2.3	25.0
4-Nitrophenol-d4	0.259	0.268	0.010	3.6	40.0
Fluorene-d10	1.056	1.106	0.010	4.7	25.0
4,6-Dinitro-2-methylphenol-d2	0.131	0.137	0.010	4.5	40.0
Anthracene-d10	1.012	1.040	0.010	2.8	25.0
Pyrene-d10	0.909	0.954	0.010	4.9	25.0
Benzo(a)pyrene-d12	0.907	0.946	0.010	4.3	25.0

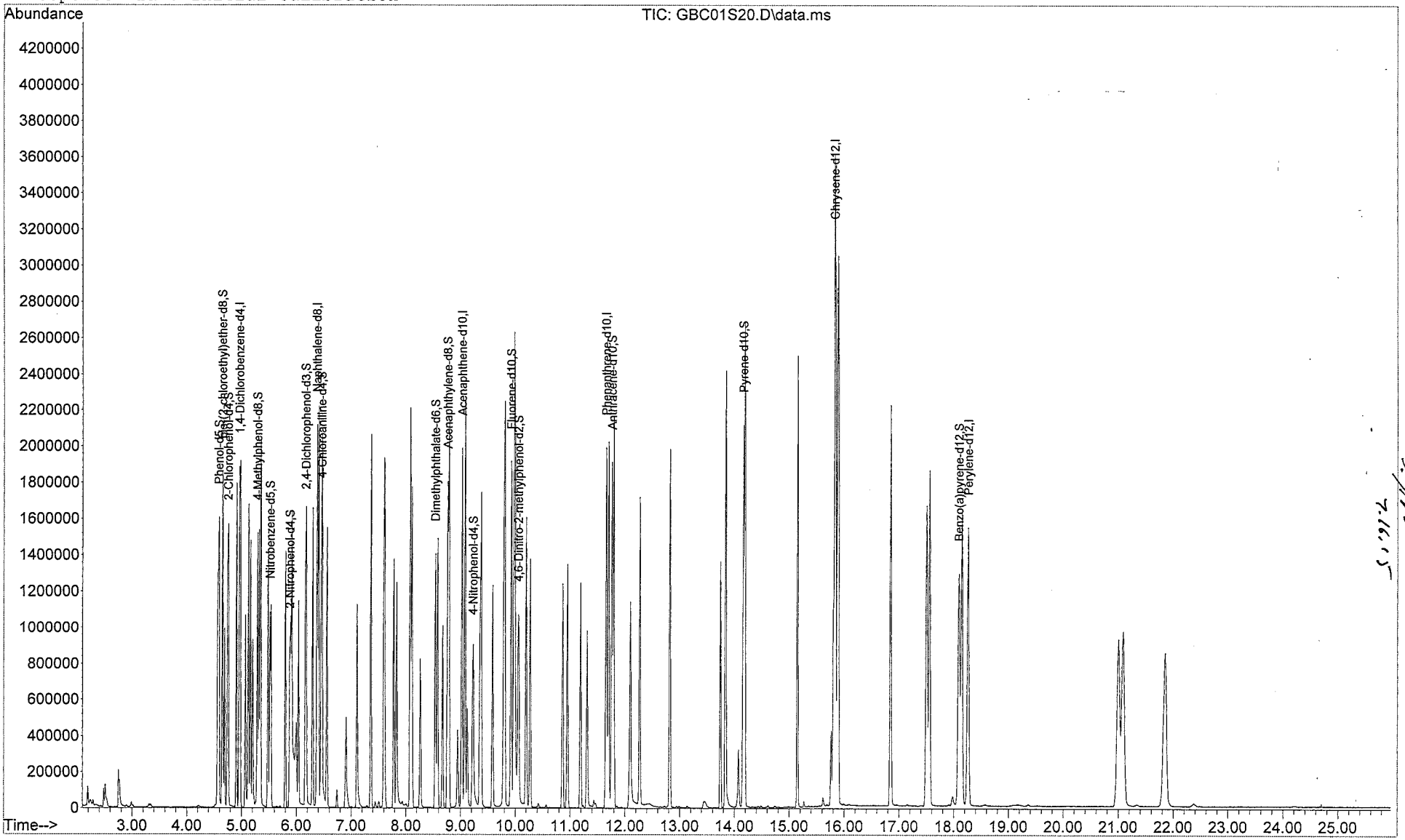
Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC01S20.D
Acq On : 06/02/2015 11:34
Sample : SSTD020GC 28237 DFTPPGC
Misc : . X06/19/15
MS Integration Params: rteint.p

Vial: 1
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 02 12:00:47 2015 Results File: GSOM01D4.RES

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



GBC01S20.D GSOM01D4.M Thu Jul 16 08:31:55 2015

Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC01S20.D Vial: 1
Acq On : 06/02/2015 11:34 Operator: DJC
Sample : SSTD020GC 28237 DFTPPGC Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 02 12:00:47 2015 Results File: GSOM01D4.RES

Method : R:\G\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	325019	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1226959	20.00 ug/ml
33) Acenaphthene-d10	9.03	164	708728	20.00 ug/ml
59) Phenanthrene-d10	11.66	188	1189423	20.00 ug/ml
73) Chrysene-d12	15.84	240	1129462	20.00 ug/ml
81) Perylene-d12	18.26	264	1100778	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	462628	20.412ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	274637	19.790ug/mL
7) 2-Chlorophenol-d4	4.75	132	454900	20.442ug/ml
13) 4-Methylphenol-d8	5.29	113	360832	20.449ug/mL
17) Nitrobenzene-d5	5.52	128	210935	20.491ug/ml
21) 2-Nitrophenol-d4	5.88	143	232590	20.274ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	352213	20.958ug/mL
28) 4-Chloroaniline-d4	6.45	131	330515	18.130ug/mL
42) Dimethylphthalate-d6	8.54	166	907815	21.062ug/mL
45) Acenaphthylene-d8	8.76	160	1176547	20.454ug/mL
50) 4-Nitrophenol-d4	9.22	143	190090	20.710ug/mL
57) Fluorene-d10	9.92	176	783595	20.931ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	163352	20.908ug/mL
69) Anthracene-d10	11.76	188	1236834	20.557ug/mL
75) Pyrene-d10	14.16	212	1077624	20.987ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1041864	20.866ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.56	77	254437	18.708ug/ml	94
4) Phenol	4.59	94	470128	20.504ug/ml	97
5) Bis(2-chloroethyl)ether	4.69	93	363431	19.007ug/ml	92
8) 2-Chlorophenol	4.76	128	441624	20.887ug/ml	93
9) 2-Methylphenol	5.16	108	356104	20.066ug/ml	100
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	400885	18.559ug/ml	100
11) Acetophenone	5.35	105	519414	20.407ug/ml	97
12) 4-methylphenol	5.32	108	377944	20.300ug/ml	95
14) N-Nitroso-di-n-propylamine	5.34	70	232578	20.827ug/ml	96
15) Hexachloroethane	5.48	117	197911	20.484ug/ml	96
18) Nitrobenzene	5.53	77	383014	20.209ug/ml	96
19) Isophorone	5.80	82	679840	20.704ug/ml	97
20) 2-Nitrophenol	5.90	139	250450	20.676ug/ml	99
22) 2,4-Dimethylphenol	5.92	107	396770	21.054ug/ml	94
23) Bis(2-chloroethoxy)methane	6.04	93	436350	20.077ug/ml	99
24) 2,4-Dichlorophenol	6.18	162	358293	21.443ug/ml	98
26) Naphthalene	6.40	128	1269683	20.502ug/ml	100
27) 4-Chloroaniline	6.46	127	391552	19.126ug/ml	96
29) Hexachlorobutadiene	6.56	225	225073	21.198ug/ml	99
30) Caprolactam	6.91	113	127138	21.211ug/ml	73
31) 4-Chloro-3-methylphenol	7.11	107	355688	21.759ug/ml	96
32) 2-Methylnaphthalene	7.36	142	798389	20.192ug/ml	97
34) 1,2,4,5-Tetrachlorobenzene	7.61	216	363008	20.704ug/mL	99
35) Hexachlorocyclopentadiene	7.60	237	272002	21.800ug/ml	99
36) 2,4,6-Trichlorophenol	7.78	196	260110	20.889ug/ml	99
37) 2,4,5-Trichlorophenol	7.83	196	269561	20.153ug/ml	98
38) 1,1'-Biphenyl	8.08	154	996830	20.190ug/ml	96
39) 2-Chloronaphthalene	8.11	162	785193	20.504ug/ml	98
40) 2-Nitroaniline	8.26	65	193944	19.292ug/ml	83
41) Dimethylphthalate	8.58	163	903427	20.439ug/ml	99
43) 2,6-Dinitrotoluene	8.67	165	217020	21.295ug/ml	88

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC01S20.D Vial: 1
Acq On : 06/02/2015 11:34 Operator: DJC
Sample : SSTD020GC 28237 DFTPPGC Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 02 12:00:47 2015 Results File: GSOM01D4.RES

Method : R:\G\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	8.79	152	1334536	20.601ug/ml	99
46)	3-Nitroaniline	8.95	138	137366	18.816ug/ml	94
47)	Acenaphthene	9.08	153	828611	20.768ug/ml	93
48)	2,4-Dinitrophenol	9.13	184	130947	20.952ug/ml	100
49)	4-Nitrophenol	9.23	109	115614	21.287ug/ml	91
51)	Dibenzofuran	9.37	168	1056957	20.180ug/ml	99
52)	2,4-Dinitrotoluene	9.36	165	296305	21.530ug/ml	97
53)	2,3,4,6-Tetrachlorophenol	9.59	232	219157	21.766ug/mL	97
54)	Diethylphthalate	9.81	149	945920	20.696ug/ml	98
55)	4-Chlorophenyl-phenylether	9.99	204	427528	20.732ug/ml	98
56)	Fluorene	9.97	166	919510	21.162ug/ml	99
58)	4-Nitroaniline	10.00	138	177600	21.043ug/ml	69
60)	4,6-Dinitro-2-methylphenol	10.07	198	182387	20.626ug/ml	93
62)	N-Nitrosodiphenylamine	10.20	169	634900	20.410ug/ml	99
63)	4-Bromophenyl-phenyl ether	10.87	248	247252	20.444ug/ml	99
64)	Hexachlorobenzene	10.95	284	281319	21.153ug/ml	86
65)	Atrazine	11.19	200	245555	21.587ug/ml	97
66)	Pentachlorophenol	11.31	266	180865	21.510ug/ml	99
67)	Phenanthrene	11.70	178	1326048	20.386ug/ml	99
68)	Anthracene	11.80	178	1370608	20.648ug/ml	100
70)	Carbazole	12.10	167	933765	23.258ug/mL	98
71)	Di-n-butylphthalate	12.82	149	1702883	20.750ug/ml	99
72)	Fluoranthene	13.84	202	1418523	21.148ug/ml	95
74)	Pyrene	14.19	202	1453372	20.780ug/ml	96
76)	Butylbenzylphthalate	15.15	149	766180	20.687ug/ml	90
77)	3,3'-Dichlorobenzidine	15.80	252	309425	16.963ug/ml	99
78)	Benzo(a)anthracene	15.83	228	1315936	20.502ug/ml	100
79)	Chrysene	15.87	228	1203365	20.652ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	1119920	20.545ug/ml	98
82)	Di-n-octylphthalate	16.84	149	1940065	20.883ug/ml	100
83)	Benzo(b)fluoranthene	17.50	252	1314871	20.549ug/ml	98
84)	Benzo(k)fluoranthene	17.56	252	1301969	20.984ug/ml	98
85)	Benzo(a)pyrene	18.14	252	1275924	20.672ug/ml	98
87)	Indeno(1,2,3-c,d)pyrene	21.01	276	1249081	20.644ug/ml	92
88)	Dibenzo(a,h)anthracene	21.09	278	1284507	20.693ug/ml	96
89)	Benzo(g,h,i)perylene	21.86	276	1257430	20.521ug/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.: F9L58

Instrument ID: 5975-G Calibration Date: 06/02/2015 Time: 14:58

Lab File ID: GBC04S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020C1 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	0.758	0.010	-9.4	40.0
Phenol	1.411	1.418	0.800	0.5	25.0
Bis(2-chloroethyl)ether	1.177	1.145	0.700	-2.7	25.0
2-Chlorophenol	1.301	1.353	0.800	4.0	25.0
2-Methylphenol	1.092	1.062	0.700	-2.7	25.0
2,2'-Oxybis(1-chloropropane)	1.329	1.195	0.010	-10.1	40.0
Acetophenone	1.566	1.592	0.010	1.7	40.0
4-Methylphenol	1.146	1.155	0.600	0.9	25.0
N-Nitroso-di-n-propylamine	0.687	0.682	0.500	-0.8	25.0
Hexachloroethane	0.595	0.611	0.300	2.7	25.0
Nitrobenzene	0.309	0.309	0.200	0.1	25.0
Isophorone	0.535	0.548	0.400	2.4	25.0
2-Nitrophenol	0.197	0.198	0.100	0.2	25.0
2,4-Dimethylphenol	0.307	0.321	0.200	4.5	25.0
Bis(2-chloroethoxy)methane	0.354	0.353	0.300	-0.3	25.0
2,4-Dichlorophenol	0.272	0.290	0.200	6.5	25.0
Naphthalene	1.009	1.022	0.700	1.2	25.0
4-Chloroaniline	0.334	0.340	0.010	1.8	40.0
Hexachlorobutadiene	0.173	0.183	0.010	5.8	40.0
Caprolactam	0.098	0.102	0.010	4.6	40.0
4-Chloro-3-methylphenol	0.266	0.286	0.200	7.4	25.0
2-Methylnaphthalene	0.645	0.644	0.400	-0.1	25.0
Hexachlorocyclopentadiene	0.352	0.374	0.010	6.1	40.0
2,4,6-Trichlorophenol	0.351	0.367	0.200	4.4	25.0
2,4,5-Trichlorophenol	0.377	0.381	0.200	0.9	25.0
1,1'-Biphenyl	1.393	1.397	0.010	0.3	40.0
2-Chloronaphthalene	1.081	1.106	0.800	2.3	25.0
2-Nitroaniline	0.284	0.275	0.010	-3.0	40.0
Dimethylphthalate	1.247	1.272	0.010	2.0	40.0
2,6-Dinitrotoluene	0.288	0.299	0.200	3.8	25.0
Acenaphthylene	1.828	1.860	0.900	1.7	25.0
3-Nitroaniline	0.206	0.240	0.010	16.6	40.0
Acenaphthene	1.126	1.153	0.900	2.4	25.0

7F - FORM VII SV-2 -
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-G Calibration Date: 06/02/2015 Time: 14:58

Lab File ID: GBC04S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020C1 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	0.181	0.010	2.4	40.0
4-Nitrophenol	0.153	0.159	0.010	3.8	40.0
Dibenzofuran	1.478	1.480	0.800	0.1	25.0
2,4-Dinitrotoluene	0.388	0.414	0.200	6.5	25.0
Diethylphthalate	1.290	1.331	0.010	3.2	40.0
Fluorene	1.226	1.290	0.900	5.2	25.0
4-Chlorophenyl-phenylether	0.582	0.600	0.400	3.0	25.0
4-Nitroaniline	0.238	0.279	0.010	16.9	40.0
4,6-Dinitro-2-methylphenol	0.149	0.153	0.010	3.2	40.0
N-Nitrosodiphenylamine (1)	0.523	0.539	0.010	3.1	40.0
1,2,4,5-Tetrachlorobenzene	0.495	0.508	0.010	2.6	40.0
4-Bromophenyl-phenylether	0.203	0.207	0.100	1.8	25.0
Hexachlorobenzene	0.224	0.239	0.100	6.7	25.0
Atrazine	0.191	0.210	0.010	9.9	40.0
Pentachlorophenol	0.141	0.148	0.050	4.7	25.0
Phenanthrene	1.094	1.117	0.700	2.2	25.0
Anthracene	1.116	1.155	0.700	3.5	25.0
Carbazole	0.675	0.880	0.010	30.3	40.0
Di-n-butylphthalate	1.380	1.449	0.010	5.0	40.0
Fluoranthene	1.128	1.192	0.600	5.7	25.0
Pyrene	1.238	1.250	0.600	0.9	25.0
Butylbenzylphthalate	0.656	0.667	0.010	1.8	40.0
3,3'-Dichlorobenzidine	0.323	0.319	0.010	-1.3	40.0
Benzo(a)anthracene	1.137	1.163	0.800	2.3	25.0
Chrysene	1.032	1.055	0.700	2.3	25.0
Bis(2-ethylhexyl)phthalate	0.965	1.012	0.010	4.8	40.0
Di-n-octylphthalate	1.688	1.787	0.010	5.9	40.0
Benzo(b)fluoranthene	1.163	1.186	0.700	2.0	25.0
Benzo(k)fluoranthene	1.127	1.166	0.700	3.5	25.0
Benzo(a)pyrene	1.121	1.148	0.700	2.3	25.0
Indeno(1,2,3-cd)pyrene	1.099	1.148	0.500	4.4	25.0
Dibenzo(a,h)anthracene	1.128	1.172	0.400	3.9	25.0
Benzo(g,h,i)perylene	1.113	1.149	0.500	3.2	25.0
2,3,4,6-Tetrachlorophenol	0.284	0.304	0.100	6.9	25.0

(1) Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-G Calibration Date: 06/02/2015 Time: 14:58

Lab File ID: GBC04S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020C1 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	1.412	0.010	1.2	25.0
Bis(2-chloroethyl)ether-d8	0.854	0.838	0.010	-1.9	25.0
2-Chlorophenol-d4	1.369	1.411	0.010	3.0	25.0
4-Methylphenol-d8	1.086	1.097	0.010	1.0	25.0
Nitrobenzene-d5	0.168	0.168	0.010	0.2	25.0
2-Nitrophenol-d4	0.187	0.189	0.010	1.1	25.0
2,4-Dichlorophenol-d3	0.274	0.285	0.010	4.2	25.0
4-Chloroaniline-d4	0.297	0.302	0.010	1.7	40.0
Dimethylphthalate-d6	1.216	1.281	0.010	5.3	40.0
Acenaphthylene-d8	1.623	1.665	0.010	2.6	25.0
4-Nitrophenol-d4	0.259	0.270	0.010	4.4	40.0
Fluorene-d10	1.056	1.107	0.010	4.8	25.0
4,6-Dinitro-2-methylphenol-d2	0.131	0.137	0.010	4.4	40.0
Anthracene-d10	1.012	1.049	0.010	3.7	25.0
Pyrene-d10	0.909	0.927	0.010	2.0	25.0
Benzo(a)pyrene-d12	0.907	0.943	0.010	3.9	25.0

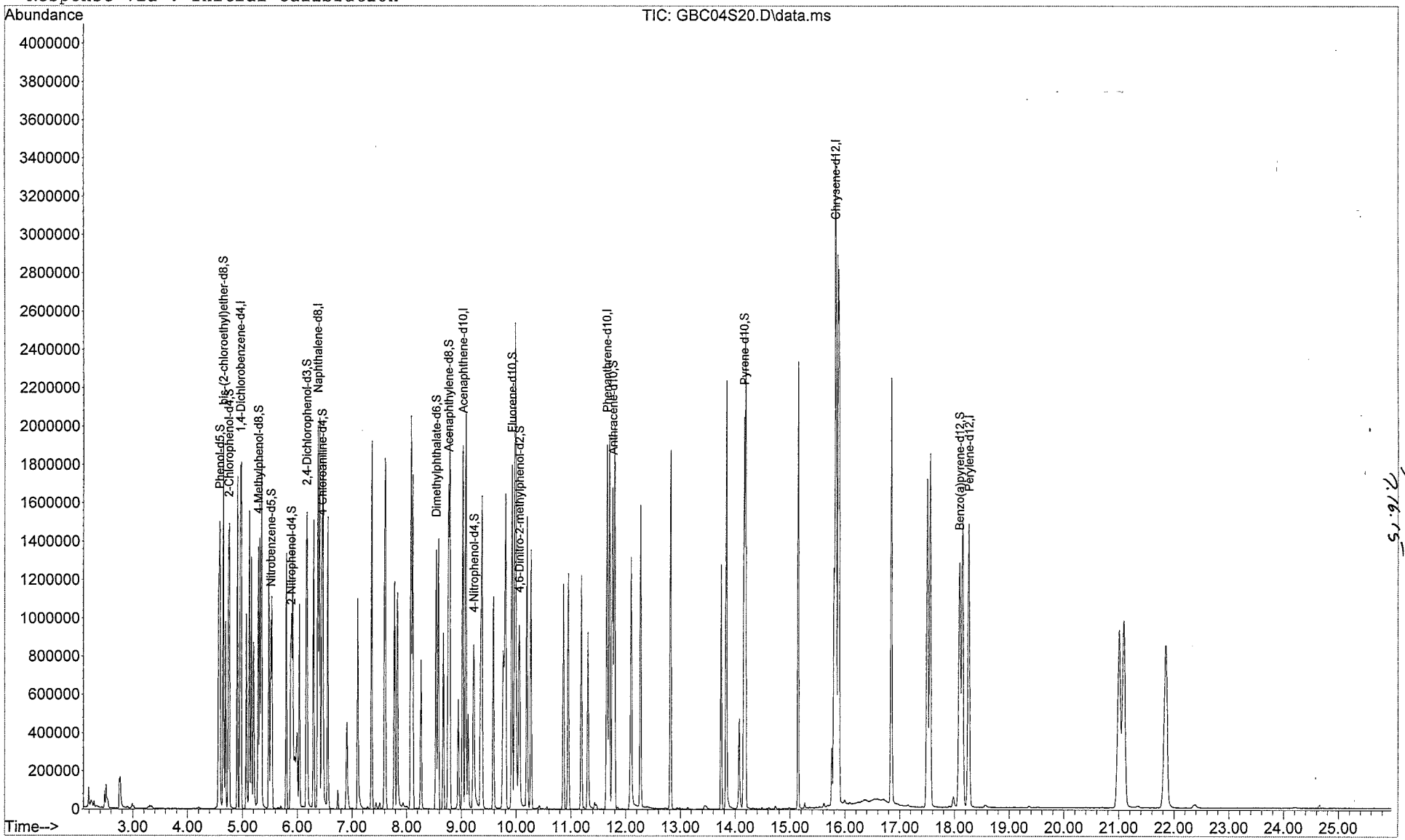
Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC04S20.D
Acq On : 06/02/2015 14:58
Sample : SSTD020C1 28237 DFTPPC1
Misc : . X06/19/15
MS Integration Params: rteint.p

Vial: 1
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 02 15:24:39 2015 Results File: GSOM01D4.RES

Method : R:\G\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 : R:\G\2015\JUN15\02JUN15\GBC04S20.D Vial: 1
Acq On : 06/02/2015 14:58 Operator: DJC
Sample : SSTD020C1 28237 DFTPPC1 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 02 15:24:39 2015 Results File: GSOM01D4.RES

Method : R:\G\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	310136	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1161951	20.00 ug/ml
33) Acenaphthene-d10	9.03	164	671537	20.00 ug/ml
59) Phenanthrene-d10	11.66	188	1115547	20.00 ug/ml
73) Chrysene-d12	15.84	240	1103221	20.00 ug/ml
81) Perylene-d12	18.26	264	1096059	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.58	99	437826	20.244ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	259924	19.628ug/mL
7) 2-Chlorophenol-d4	4.75	132	437613	20.609ug/ml
13) 4-Methylphenol-d8	5.29	113	340129	20.200ug/mL
17) Nitrobenzene-d5	5.52	128	195317	20.035ug/ml
21) 2-Nitrophenol-d4	5.88	143	219683	20.221ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	331576	20.833ug/mL
28) 4-Chloroaniline-d4	6.45	131	351311	20.349ug/mL
42) Dimethylphthalate-d6	8.54	166	860250	21.064ug/mL
45) Acenaphthylene-d8	8.76	160	1117962	20.512ug/mL
50) 4-Nitrophenol-d4	9.22	143	181525	20.873ug/mL
57) Fluorene-d10	9.92	176	743618	20.963ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	152984	20.878ug/mL
69) Anthracene-d10	11.76	188	1170618	20.745ug/mL
75) Pyrene-d10	14.16	212	1023126	20.399ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1033539	20.788ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.56	77	235035	18.111ug/ml 94
4) Phenol	4.59	94	439733	20.099ug/ml 97
5) Bis(2-chloroethyl)ether	4.69	93	355040	19.459ug/ml 90
8) 2-Chlorophenol	4.76	128	419669	20.801ug/ml 93
9) 2-Methylphenol	5.16	108	329429	19.454ug/ml 99
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	370525	17.976ug/ml 100
11) Acetophenone	5.35	105	493815	20.332ug/ml 97
12) 4-methylphenol	5.31	108	358347	20.171ug/ml 95
14) N-Nitroso-di-n-propylamine	5.34	70	211468	19.846ug/ml 96
15) Hexachloroethane	5.48	117	189352	20.538ug/ml 96
18) Nitrobenzene	5.53	77	359490	20.029ug/ml 96
19) Isophorone	5.80	82	636577	20.471ug/ml 98
20) 2-Nitrophenol	5.89	139	229916	20.043ug/ml 98
22) 2,4-Dimethylphenol	5.92	107	372886	20.894ug/ml 94
23) Bis(2-chloroethoxy)methane	6.04	93	410559	19.947ug/ml 99
24) 2,4-Dichlorophenol	6.18	162	337141	21.306ug/ml 98
26) Naphthalene	6.40	128	1187456	20.247ug/ml 100
27) 4-Chloroaniline	6.46	127	394676	20.357ug/ml 96
29) Hexachlorobutadiene	6.56	225	212826	21.166ug/ml 100
30) Caprolactam	6.91	113	118729	20.916ug/ml 71
31) 4-Chloro-3-methylphenol	7.10	107	332536	21.481ug/ml 95
32) 2-Methylnaphthalene	7.36	142	748404	19.987ug/ml 96
34) 1,2,4,5-Tetrachlorobenzene	7.61	216	340993	20.526ug/mL 99
35) Hexachlorocyclopentadiene	7.60	237	250851	21.218ug/ml 99
36) 2,4,6-Trichlorophenol	7.78	196	246360	20.880ug/ml 100
37) 2,4,5-Trichlorophenol	7.83	196	255634	20.171ug/ml 99
38) 1,1'-Biphenyl	8.08	154	938380	20.059ug/ml 97
39) 2-Chloronaphthalene	8.11	162	742606	20.466ug/ml 97
40) 2-Nitroaniline	8.26	65	184822	19.403ug/ml 86
41) Dimethylphthalate	8.58	163	853960	20.390ug/ml 99
43) 2,6-Dinitrotoluene	8.67	165	200504	20.764ug/ml 90

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC04S20.D Vial: 1
Acq On : 06/02/2015 14:58 Operator: DJC
Sample : SSTD020C1 28237 DFTPPC1 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 02 15:24:39 2015 Results File: GSOM01D4.RES

Method : R:\G\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	8.79	152	1248921	20.347ug/ml	99
46)	3-Nitroaniline	8.95	138	161272	23.314ug/ml	95
47)	Acenaphthene	9.08	153	774097	20.477ug/ml	94
48)	2,4-Dinitrophenol	9.13	184	121335	20.489ug/ml	100
49)	4-Nitrophenol	9.23	109	106797	20.753ug/ml	91
51)	Dibenzofuran	9.37	168	993644	20.021ug/ml	99
52)	2,4-Dinitrotoluene	9.36	165	277744	21.299ug/ml	97
53)	2,3,4,6-Tetrachlorophenol	9.59	232	203976	21.380ug/mL	97
54)	Diethylphthalate	9.81	149	893621	20.635ug/ml	98
55)	4-Chlorophenyl-phenylether	9.99	204	402614	20.605ug/ml	98
56)	Fluorene	9.97	166	866395	21.043ug/ml	98
58)	4-Nitroaniline	10.00	138	187045	23.390ug/ml	73
60)	4,6-Dinitro-2-methylphenol	10.06	198	171105	20.632ug/ml	93
62)	N-Nitrosodiphenylamine	10.20	169	601503	20.617ug/ml	100
63)	4-Bromophenyl-phenyl ether	10.87	248	230973	20.363ug/ml	99
64)	Hexachlorobenzene	10.95	284	266173	21.340ug/ml	86
65)	Atrazine	11.19	200	234511	21.981ug/ml	96
66)	Pentachlorophenol	11.31	266	165204	20.949ug/ml	99
67)	Phenanthrene	11.70	178	1246487	20.432ug/ml	100
68)	Anthracene	11.80	178	1288448	20.696ug/ml	100
70)	Carbazole	12.10	167	981393	26.063ug/mL	98
71)	Di-n-butylphthalate	12.82	149	1616150	20.997ug/ml	99
72)	Fluoranthene	13.84	202	1329463	21.133ug/ml	95
74)	Pyrene	14.19	202	1379049	20.187ug/ml	96
76)	Butylbenzylphthalate	15.15	149	736366	20.355ug/ml	90
77)	3,3'-Dichlorobenzidine	15.80	252	351784	19.744ug/ml	99
78)	Benzo(a)anthracene	15.83	228	1282556	20.458ug/ml	100
79)	Chrysene	15.87	228	1163936	20.451ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	1116211	20.964ug/ml	97
82)	Di-n-octylphthalate	16.84	149	1959143	21.179ug/ml	100
83)	Benzo(b)fluoranthene	17.50	252	1299463	20.396ug/ml	98
84)	Benzo(k)fluoranthene	17.56	252	1278254	20.690ug/ml	97
85)	Benzo(a)pyrene	18.14	252	1257757	20.466ug/ml	97
87)	Indeno(1,2,3-c,d)pyrene	21.01	276	1258090	20.883ug/ml	92
88)	Dibenzo(a,h)anthracene	21.09	278	1284607	20.784ug/ml	95
89)	Benzo(g,h,i)perylene	21.86	276	1259327	20.640ug/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.: F9L58

Instrument ID: 5975-G Calibration Date: 06/03/2015 Time: 00:14

Lab File ID: GBC21S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020C2 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	0.737	0.010	-11.9	40.0
Phenol	1.411	1.402	0.800	-0.7	25.0
Bis(2-chloroethyl)ether	1.177	1.116	0.700	-5.2	25.0
2-Chlorophenol	1.301	1.341	0.800	3.0	25.0
2-Methylphenol	1.092	1.071	0.700	-1.9	25.0
2,2'-Oxybis(1-chloropropane)	1.329	1.153	0.010	-13.3	40.0
Acetophenone	1.566	1.589	0.010	1.4	40.0
4-Methylphenol	1.146	1.159	0.600	1.1	25.0
N-Nitroso-di-n-propylamine	0.687	0.671	0.500	-2.4	25.0
Hexachloroethane	0.595	0.596	0.300	0.3	25.0
Nitrobenzene	0.309	0.312	0.200	1.1	25.0
Isophorone	0.535	0.552	0.400	3.2	25.0
2-Nitrophenol	0.197	0.202	0.100	2.3	25.0
2,4-Dimethylphenol	0.307	0.326	0.200	6.2	25.0
Bis(2-chloroethoxy)methane	0.354	0.354	0.300	-0.1	25.0
2,4-Dichlorophenol	0.272	0.296	0.200	8.6	25.0
Naphthalene	1.009	1.038	0.700	2.9	25.0
4-Chloroaniline	0.334	0.371	0.010	11.0	40.0
Hexachlorobutadiene	0.173	0.187	0.010	8.0	40.0
Caprolactam	0.098	0.103	0.010	5.2	40.0
4-Chloro-3-methylphenol	0.266	0.292	0.200	9.5	25.0
2-Methylnaphthalene	0.645	0.653	0.400	1.3	25.0
Hexachlorocyclopentadiene	0.352	0.299	0.010	-15.0	40.0
2,4,6-Trichlorophenol	0.351	0.365	0.200	3.8	25.0
2,4,5-Trichlorophenol	0.377	0.388	0.200	2.7	25.0
1,1'-Biphenyl	1.393	1.388	0.010	-0.4	40.0
2-Chloronaphthalene	1.081	1.104	0.800	2.1	25.0
2-Nitroaniline	0.284	0.271	0.010	-4.4	40.0
Dimethylphthalate	1.247	1.289	0.010	3.3	40.0
2,6-Dinitrotoluene	0.288	0.306	0.200	6.3	25.0
Acenaphthylene	1.828	1.873	0.900	2.4	25.0
3-Nitroaniline	0.206	0.237	0.010	15.1	40.0
Acenaphthene	1.126	1.154	0.900	2.5	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.: F9L58

Instrument ID: 5975-G Calibration Date: 06/03/2015 Time: 00:14

Lab File ID: GBC21S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020C2 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	0.156	0.010	-11.7	40.0
4-Nitrophenol	0.153	0.159	0.010	3.9	40.0
Dibenzofuran	1.478	1.484	0.800	0.4	25.0
2,4-Dinitrotoluene	0.388	0.419	0.200	7.9	25.0
Diethylphthalate	1.290	1.355	0.010	5.0	40.0
Fluorene	1.226	1.299	0.900	5.9	25.0
4-Chlorophenyl-phenylether	0.582	0.610	0.400	4.9	25.0
4-Nitroaniline	0.238	0.280	0.010	17.6	40.0
4,6-Dinitro-2-methylphenol	0.149	0.142	0.010	-4.3	40.0
N-Nitrosodiphenylamine (1)	0.523	0.539	0.010	3.1	40.0
1,2,4,5-Tetrachlorobenzene	0.495	0.510	0.010	3.1	40.0
4-Bromophenyl-phenylether	0.203	0.207	0.100	1.8	25.0
Hexachlorobenzene	0.224	0.236	0.100	5.6	25.0
Atrazine	0.191	0.210	0.010	9.8	40.0
Pentachlorophenol	0.141	0.150	0.050	6.4	25.0
Phenanthrene	1.094	1.112	0.700	1.7	25.0
Anthracene	1.116	1.160	0.700	3.9	25.0
Carbazole	0.675	0.918	0.010	36.0	40.0
Di-n-butylphthalate	1.380	1.433	0.010	3.9	40.0
Fluoranthene	1.128	1.176	0.600	4.3	25.0
Pyrene	1.238	1.274	0.600	2.9	25.0
Butylbenzylphthalate	0.656	0.680	0.010	3.7	40.0
3,3'-Dichlorobenzidine	0.323	0.354	0.010	9.6	40.0
Benzo(a)anthracene	1.137	1.164	0.800	2.4	25.0
Chrysene	1.032	1.072	0.700	3.9	25.0
Bis(2-ethylhexyl)phthalate	0.965	1.010	0.010	4.6	40.0
Di-n-octylphthalate	1.688	1.794	0.010	6.3	40.0
Benzo(b)fluoranthene	1.163	1.249	0.700	7.4	25.0
Benzo(k)fluoranthene	1.127	1.138	0.700	1.0	25.0
Benzo(a)pyrene	1.121	1.152	0.700	2.7	25.0
Indeno(1,2,3-cd)pyrene	1.099	1.104	0.500	0.5	25.0
Dibenzo(a,h)anthracene	1.128	1.145	0.400	1.5	25.0
Benzo(g,h,i)perylene	1.113	1.084	0.500	-2.6	25.0
2,3,4,6-Tetrachlorophenol	0.284	0.313	0.100	10.3	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.: F9L58

Instrument ID: 5975-G Calibration Date: 06/03/2015 Time: 00:14

Lab File ID: GBC21S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020C2 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	1.384	0.010	-0.8	25.0
Bis(2-chloroethyl)ether-d8	0.854	0.832	0.010	-2.5	25.0
2-Chlorophenol-d4	1.369	1.392	0.010	1.7	25.0
4-Methylphenol-d8	1.086	1.077	0.010	-0.8	25.0
Nitrobenzene-d5	0.168	0.169	0.010	0.5	25.0
2-Nitrophenol-d4	0.187	0.192	0.010	2.9	25.0
2,4-Dichlorophenol-d3	0.274	0.290	0.010	5.7	25.0
4-Chloroaniline-d4	0.297	0.333	0.010	11.9	40.0
Dimethylphthalate-d6	1.216	1.271	0.010	4.5	40.0
Acenaphthylene-d8	1.623	1.664	0.010	2.5	25.0
4-Nitrophenol-d4	0.259	0.271	0.010	4.5	40.0
Fluorene-d10	1.056	1.109	0.010	5.0	25.0
4,6-Dinitro-2-methylphenol-d2	0.131	0.126	0.010	-3.8	40.0
Anthracene-d10	1.012	1.040	0.010	2.8	25.0
Pyrene-d10	0.909	0.942	0.010	3.6	25.0
Benzo(a)pyrene-d12	0.907	0.948	0.010	4.5	25.0

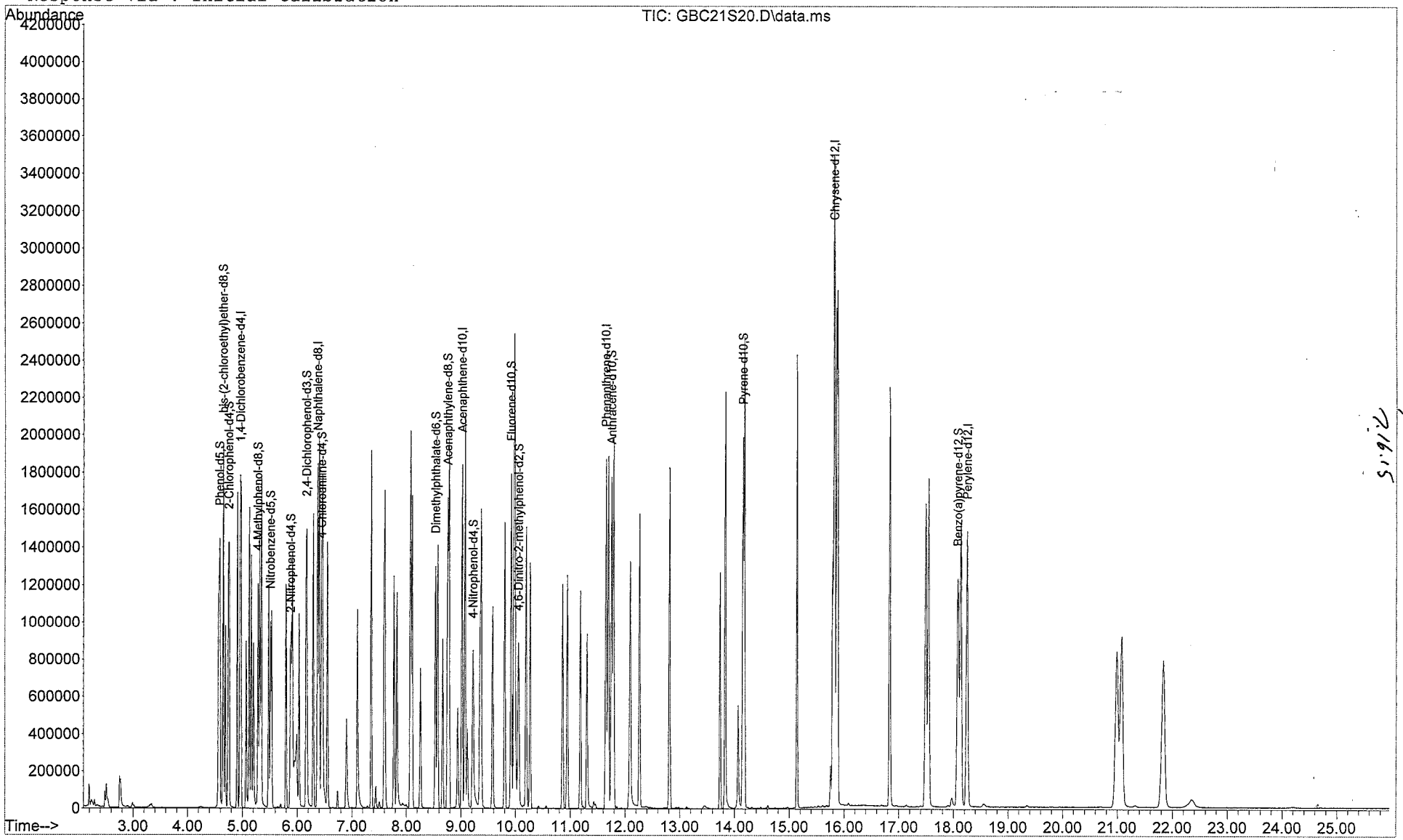
Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC21S20.D
Acq On : 06/03/2015 00:14
Sample : SSTD020C2 28237 DFTPPC2
Misc : . X06/19/15
MS Integration Params: rteint.p

Vial: 1
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 03 00:40:29 2015 Results File: GSOM01D4.RES

Method : R:\G\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 : R:\G\2015\JUN15\02JUN15\GBC21S20.D Vial: 1
Acq On : 06/03/2015 00:14 Operator: DJC
Sample : SSTD020C2 28237 DFTPPC2 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 03 00:40:29 2015 Results File: GSOM01D4.RES

Method : R:\G\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	305210	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1123320	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	659663	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1116275	20.00 ug/ml
73) Chrysene-d12	15.83	240	1079085	20.00 ug/ml
81) Perylene-d12	18.25	264	1054672	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.58	99	422474	19.850ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	254017	19.492ug/mL
7) 2-Chlorophenol-d4	4.74	132	424929	20.335ug/ml
13) 4-Methylphenol-d8	5.29	113	328710	19.837ug/mL
17) Nitrobenzene-d5	5.51	128	189462	20.103ug/ml
21) 2-Nitrophenol-d4	5.87	143	216170	20.581ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	325306	21.142ug/mL
28) 4-Chloroaniline-d4	6.44	131	373664	22.388ug/mL
42) Dimethylphthalate-d6	8.53	166	838543	20.902ug/mL
45) Acenaphthylene-d8	8.76	160	1097597	20.500ug/mL
50) 4-Nitrophenol-d4	9.22	143	178608	20.907ug/mL
57) Fluorene-d10	9.92	176	731569	20.995ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	141081	19.241ug/mL
69) Anthracene-d10	11.75	188	1161103	20.563ug/mL
75) Pyrene-d10	14.15	212	1016803	20.727ug/mL
86) Benzo(a)pyrene-d12	18.08	264	1000272	20.909ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.56	77	224922	17.611ug/ml	95
4) Phenol	4.59	94	427803	19.869ug/ml	97
5) Bis(2-chloroethyl)ether	4.69	93	340474	18.962ug/ml	90
8) 2-Chlorophenol	4.76	128	409163	20.608ug/ml	93
9) 2-Methylphenol	5.16	108	326968	19.620ug/ml	100
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	351860	17.346ug/ml	100
11) Acetophenone	5.35	105	484908	20.288ug/ml	96
12) 4-methylphenol	5.31	108	353643	20.228ug/ml	97
14) N-Nitroso-di-n-propylamine	5.33	70	204655	19.516ug/ml	94
15) Hexachloroethane	5.47	117	181982	20.058ug/ml	95
18) Nitrobenzene	5.53	77	350951	20.226ug/ml	95
19) Isophorone	5.79	82	620487	20.639ug/ml	97
20) 2-Nitrophenol	5.89	139	227005	20.470ug/ml	99
22) 2,4-Dimethylphenol	5.91	107	366609	21.249ug/ml	94
23) Bis(2-chloroethoxy)methane	6.03	93	397460	19.975ug/ml	99
24) 2,4-Dichlorophenol	6.17	162	332410	21.730ug/ml	98
26) Naphthalene	6.40	128	1166345	20.571ug/ml	100
27) 4-Chloroaniline	6.46	127	416227	22.207ug/ml	96
29) Hexachlorobutadiene	6.55	225	209890	21.592ug/ml	99
30) Caprolactam	6.90	113	115494	21.046ug/ml	71
31) 4-Chloro-3-methylphenol	7.10	107	327614	21.891ug/ml	95
32) 2-Methylnaphthalene	7.36	142	733437	20.261ug/ml	96
34) 1,2,4,5-Tetrachlorobenzene	7.60	216	336407	20.614ug/mL	99
35) Hexachlorocyclopentadiene	7.59	237	197453	17.002ug/ml	99
36) 2,4,6-Trichlorophenol	7.77	196	240610	20.760ug/ml	98
37) 2,4,5-Trichlorophenol	7.83	196	255672	20.537ug/ml	99
38) 1,1'-Biphenyl	8.07	154	915813	19.929ug/ml	96
39) 2-Chloronaphthalene	8.10	162	728014	20.425ug/ml	98
40) 2-Nitroaniline	8.26	65	178946	19.124ug/ml	83
41) Dimethylphthalate	8.57	163	849980	20.661ug/ml	99
43) 2,6-Dinitrotoluene	8.67	165	201633	21.257ug/ml	88

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 00614

Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC21S20.D Vial: 1
Acq On : 06/03/2015 00:14 Operator: DJC
Sample : SSTD020C2 28237 DFTPPC2 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 03 00:40:29 2015 Results File: GSOM01D4.RES

Method : R:\G\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	8.78	152	1235425	20.490ug/ml	99
46)	3-Nitroaniline	8.94	138	156468	23.027ug/ml	95
47)	Acenaphthene	9.07	153	760937	20.491ug/ml	94
48)	2,4-Dinitrophenol	9.12	184	102744	17.662ug/ml	100
49)	4-Nitrophenol	9.23	109	105092	20.789ug/ml	90
51)	Dibenzofuran	9.37	168	978883	20.079ug/ml	98
52)	2,4-Dinitrotoluene	9.35	165	276495	21.585ug/ml	98
53)	2,3,4,6-Tetrachlorophenol	9.58	232	206754	22.062ug/mL	98
54)	Diethylphthalate	9.80	149	893538	21.004ug/ml	98
55)	4-Chlorophenyl-phenylether	9.99	204	402651	20.978ug/ml	98
56)	Fluorene	9.97	166	856983	21.190ug/ml	98
58)	4-Nitroaniline	10.00	138	184686	23.511ug/ml	73
60)	4,6-Dinitro-2-methylphenol	10.06	198	158854	19.142ug/ml	92
62)	N-Nitrosodiphenylamine	10.19	169	602204	20.628ug/ml	99
63)	4-Bromophenyl-phenyl ether	10.86	248	231065	20.358ug/ml	99
64)	Hexachlorobenzene	10.95	284	263537	21.114ug/ml	87
65)	Atrazine	11.19	200	234439	21.960ug/ml	98
66)	Pentachlorophenol	11.30	266	167924	21.280ug/ml	99
67)	Phenanthrene	11.69	178	1241104	20.330ug/ml	100
68)	Anthracene	11.79	178	1294455	20.779ug/ml	100
70)	Carbazole	12.09	167	1025184	27.208ug/mL	99
71)	Di-n-butylphthalate	12.82	149	1599920	20.773ug/ml	99
72)	Fluoranthene	13.83	202	1312517	20.850ug/ml	95
74)	Pyrene	14.18	202	1375127	20.579ug/ml	95
76)	Butylbenzylphthalate	15.14	149	733660	20.733ug/ml	90
77)	3,3'-Dichlorobenzidine	15.79	252	382109	21.926ug/ml	99
78)	Benzo(a)anthracene	15.82	228	1256208	20.485ug/ml	100
79)	Chrysene	15.86	228	1157140	20.786ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	1089512	20.920ug/ml	98
82)	Di-n-octylphthalate	16.83	149	1892217	21.258ug/ml	100
83)	Benzo(b)fluoranthene	17.49	252	1316901	21.481ug/ml	97
84)	Benzo(k)fluoranthene	17.54	252	1200680	20.197ug/ml	98
85)	Benzo(a)pyrene	18.14	252	1215069	20.547ug/ml	97
87)	Indeno(1,2,3-c,d)pyrene	20.99	276	1164681	20.091ug/ml	91
88)	Dibenzo(a,h)anthracene	21.08	278	1207627	20.305ug/ml	95
89)	Benzo(g,h,i)perylene	21.84	276	1143289	19.474ug/ml	95

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00615

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.: F9L58

Instrument ID: 5975-G Calibration Date: 06/03/2015 Time: 04:00

Lab File ID: GBC28S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020C3 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	0.723	0.010	-13.6	50.0
Phenol	1.411	1.421	0.010	0.7	50.0
Bis(2-chloroethyl)ether	1.177	1.096	0.010	-6.9	50.0
2-Chlorophenol	1.301	1.347	0.010	3.6	50.0
2-Methylphenol	1.092	1.056	0.010	-3.3	50.0
2,2'-Oxybis(1-chloropropane)	1.329	1.163	0.010	-12.5	50.0
Acetophenone	1.566	1.590	0.010	1.5	50.0
4-Methylphenol	1.146	1.162	0.010	1.4	50.0
N-Nitroso-di-n-propylamine	0.687	0.672	0.010	-2.2	50.0
Hexachloroethane	0.595	0.593	0.010	-0.2	50.0
Nitrobenzene	0.309	0.308	0.010	-0.5	50.0
Isophorone	0.535	0.549	0.010	2.6	50.0
2-Nitrophenol	0.197	0.199	0.010	1.0	50.0
2,4-Dimethylphenol	0.307	0.316	0.010	2.8	50.0
Bis(2-chloroethoxy)methane	0.354	0.351	0.010	-1.0	50.0
2,4-Dichlorophenol	0.272	0.288	0.010	5.9	50.0
Naphthalene	1.009	1.024	0.010	1.4	50.0
4-Chloroaniline	0.334	0.382	0.010	14.4	50.0
Hexachlorobutadiene	0.173	0.185	0.010	6.9	50.0
Caprolactam	0.098	0.104	0.010	6.1	50.0
4-Chloro-3-methylphenol	0.266	0.286	0.010	7.2	50.0
2-Methylnaphthalene	0.645	0.644	0.010	-0.1	50.0
Hexachlorocyclopentadiene	0.352	0.288	0.010	-18.3	50.0
2,4,6-Trichlorophenol	0.351	0.369	0.010	4.9	50.0
2,4,5-Trichlorophenol	0.377	0.391	0.010	3.5	50.0
1,1'-Biphenyl	1.393	1.409	0.010	1.1	50.0
2-Chloronaphthalene	1.081	1.116	0.010	3.3	50.0
2-Nitroaniline	0.284	0.279	0.010	-1.6	50.0
Dimethylphthalate	1.247	1.292	0.010	3.6	50.0
2,6-Dinitrotoluene	0.288	0.308	0.010	7.1	50.0
Acenaphthylene	1.828	1.880	0.010	2.8	50.0
3-Nitroaniline	0.206	0.284	0.010	37.9	50.0
Acenaphthene	1.126	1.166	0.010	3.6	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.: F9L58

Instrument ID: 5975-G Calibration Date: 06/03/2015 Time: 04:00

Lab File ID: GBC28S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020C3 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	0.154	0.010	-12.4	50.0
4-Nitrophenol	0.153	0.165	0.010	7.6	50.0
Dibenzofuran	1.478	1.493	0.010	1.0	50.0
2,4-Dinitrotoluene	0.388	0.422	0.010	8.6	50.0
Diethylphthalate	1.290	1.374	0.010	6.5	50.0
Fluorene	1.226	1.305	0.010	6.4	50.0
4-Chlorophenyl-phenylether	0.582	0.610	0.010	4.8	50.0
4-Nitroaniline	0.238	0.309	0.010	29.8	50.0
4,6-Dinitro-2-methylphenol	0.149	0.136	0.010	-8.5	50.0
N-Nitrosodiphenylamine (1)	0.523	0.547	0.010	4.5	50.0
1,2,4,5-Tetrachlorobenzene	0.495	0.513	0.010	3.6	50.0
4-Bromophenyl-phenylether	0.203	0.209	0.010	2.7	50.0
Hexachlorobenzene	0.224	0.234	0.010	4.7	50.0
Atrazine	0.191	0.211	0.010	10.5	50.0
Pentachlorophenol	0.141	0.155	0.010	10.0	50.0
Phenanthrene	1.094	1.120	0.010	2.4	50.0
Anthracene	1.116	1.166	0.010	4.5	50.0
Carbazole	0.675	0.979	0.010	45.0	50.0
Di-n-butylphthalate	1.380	1.455	0.010	5.5	50.0
Fluoranthene	1.128	1.208	0.010	7.1	50.0
Pyrene	1.238	1.247	0.010	0.7	50.0
Butylbenzylphthalate	0.656	0.673	0.010	2.6	50.0
3,3'-Dichlorobenzidine	0.323	0.399	0.010	23.5	50.0
Benzo(a)anthracene	1.137	1.159	0.010	1.9	50.0
Chrysene	1.032	1.039	0.010	0.7	50.0
Bis(2-ethylhexyl)phthalate	0.965	0.990	0.010	2.5	50.0
Di-n-octylphthalate	1.688	1.779	0.010	5.4	50.0
Benzo(b)fluoranthene	1.163	1.212	0.010	4.2	50.0
Benzo(k)fluoranthene	1.127	1.139	0.010	1.1	50.0
Benzo(a)pyrene	1.121	1.141	0.010	1.7	50.0
Indeno(1,2,3-cd)pyrene	1.099	1.085	0.010	-1.3	50.0
Dibenzo(a,h)anthracene	1.128	1.127	0.010	-0.1	50.0
Benzo(g,h,i)perylene	1.113	1.060	0.010	-4.8	50.0
2,3,4,6-Tetrachlorophenol	0.284	0.315	0.010	10.9	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.: F9L58

Instrument ID: 5975-G Calibration Date: 06/03/2015 Time: 04:00

Lab File ID: GBC28S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020C3 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	1.386	0.010	-0.6	50.0
Bis(2-chloroethyl)ether-d8	0.854	0.819	0.010	-4.2	50.0
2-Chlorophenol-d4	1.369	1.378	0.010	0.7	50.0
4-Methylphenol-d8	1.086	1.098	0.010	1.1	50.0
Nitrobenzene-d5	0.168	0.169	0.010	0.7	50.0
2-Nitrophenol-d4	0.187	0.191	0.010	2.2	50.0
2,4-Dichlorophenol-d3	0.274	0.288	0.010	5.0	50.0
4-Chloroaniline-d4	0.297	0.353	0.010	18.9	50.0
Dimethylphthalate-d6	1.216	1.295	0.010	6.4	50.0
Acenaphthylene-d8	1.623	1.668	0.010	2.8	50.0
4-Nitrophenol-d4	0.259	0.275	0.010	6.2	50.0
Fluorene-d10	1.056	1.126	0.010	6.5	50.0
4,6-Dinitro-2-methylphenol-d2	0.131	0.123	0.010	-6.5	50.0
Anthracene-d10	1.012	1.051	0.010	3.8	50.0
Pyrene-d10	0.909	0.922	0.010	1.4	50.0
Benzo(a)pyrene-d12	0.907	0.938	0.010	3.4	50.0

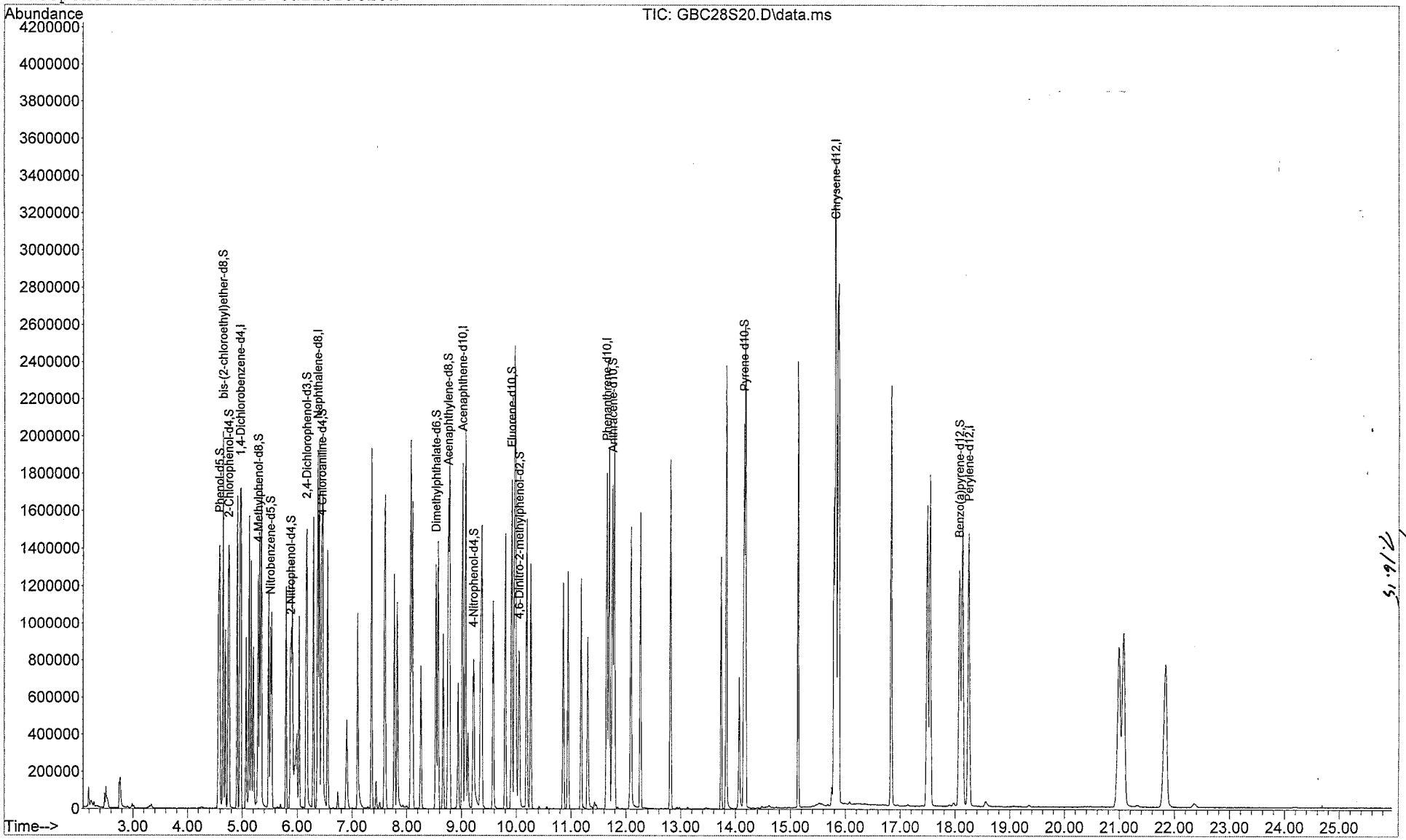
Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC28S20.D
Acq On : 06/03/2015 04:00
Sample : SSTD020C3 28237 DFTPPC3
Misc : . X06/19/15
MS Integration Params: rteint.p

Vial: 24
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 03 04:26:45 2015 Results File: GSOM01D4.RES

Method : R:\G\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 : R:\G\2015\JUN15\02JUN15\GBC28S20.D Vial: 24
Acq On : 06/03/2015 04:00 Operator: DJC
Sample : SSTD020C3 28237 DFTPPC3 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 03 04:26:45 2015 Results File: GSOM01D4.RES

Method : R:\G\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	301784	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1135015	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	652692	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1115256	20.00 ug/ml
73) Chrysene-d12	15.83	240	1111544	20.00 ug/ml
81) Perylene-d12	18.25	264	1084888	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	418159	19.870ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	247011	19.169ug/mL
7) 2-Chlorophenol-d4	4.74	132	415935	20.130ug/ml
13) 4-Methylphenol-d8	5.29	113	331325	20.222ug/mL
17) Nitrobenzene-d5	5.51	128	191851	20.146ug/ml
21) 2-Nitrophenol-d4	5.87	143	216837	20.432ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	326472	20.999ug/mL
28) 4-Chloroaniline-d4	6.44	131	401083	23.783ug/mL
42) Dimethylphthalate-d6	8.53	166	845069	21.290ug/mL
45) Acenaphthylene-d8	8.76	160	1088728	20.552ug/mL
50) 4-Nitrophenol-d4	9.22	143	179529	21.239ug/mL
57) Fluorene-d10	9.92	176	734694	21.309ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	137055	18.709ug/mL
69) Anthracene-d10	11.76	188	1171610	20.768ug/mL
75) Pyrene-d10	14.16	212	1025113	20.286ug/mL
86) Benzo(a)pyrene-d12	18.08	264	1018127	20.689ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.56	77	218274	17.285ug/ml	96
4) Phenol	4.59	94	428851	20.144ug/ml	97
5) Bis(2-chloroethyl)ether	4.69	93	330640	18.623ug/ml	91
8) 2-Chlorophenol	4.76	128	406619	20.712ug/ml	92
9) 2-Methylphenol	5.16	108	318716	19.342ug/ml	100
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	350982	17.500ug/ml	100
11) Acetophenone	5.35	105	479871	20.305ug/ml	97
12) 4-methylphenol	5.31	108	350587	20.281ug/ml	96
14) N-Nitroso-di-n-propylamine	5.33	70	202796	19.559ug/ml	95
15) Hexachloroethane	5.47	117	179013	19.954ug/ml	95
18) Nitrobenzene	5.53	77	349048	19.909ug/ml	95
19) Isophorone	5.80	82	623458	20.525ug/ml	97
20) 2-Nitrophenol	5.89	139	226251	20.192ug/ml	99
22) 2,4-Dimethylphenol	5.91	107	358384	20.558ug/ml	92
23) Bis(2-chloroethoxy)methane	6.03	93	398244	19.808ug/ml	99
24) 2,4-Dichlorophenol	6.17	162	327381	21.180ug/ml	98
26) Naphthalene	6.40	128	1162356	20.289ug/ml	100
27) 4-Chloroaniline	6.45	127	433261	22.877ug/ml	95
29) Hexachlorobutadiene	6.55	225	210038	21.385ug/ml	98
30) Caprolactam	6.90	113	117643	21.217ug/ml	69
31) 4-Chloro-3-methylphenol	7.10	107	324255	21.443ug/ml	95
32) 2-Methylnaphthalene	7.36	142	730709	19.978ug/ml	96
34) 1,2,4,5-Tetrachlorobenzene	7.60	216	334670	20.727ug/mL	99
35) Hexachlorocyclopentadiene	7.59	237	187771	16.341ug/ml	99
36) 2,4,6-Trichlorophenol	7.77	196	240631	20.984ug/ml	100
37) 2,4,5-Trichlorophenol	7.83	196	255090	20.709ug/ml	99
38) 1,1'-Biphenyl	8.07	154	919462	20.222ug/ml	96
39) 2-Chloronaphthalene	8.10	162	728554	20.658ug/ml	98
40) 2-Nitroaniline	8.26	65	182187	19.679ug/ml	85
41) Dimethylphthalate	8.57	163	843579	20.724ug/ml	99
43) 2,6-Dinitrotoluene	8.67	165	201023	21.419ug/ml	88

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC28S20.D Vial: 24
Acq On : 06/03/2015 04:00 Operator: DJC
Sample : SSTD020C3 28237 DFTPPC3 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 03 04:26:45 2015 Results File: GSOM01D4.RES

Method : R:\G\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	8.78	152	1226978	20.567ug/ml	99
46)	3-Nitroaniline	8.94	138	185427	27.580ug/ml	92
47)	Acenaphthene	9.07	153	761103	20.714ug/ml	93
48)	2,4-Dinitrophenol	9.12	184	100784	17.510ug/ml	100
49)	4-Nitrophenol	9.23	109	107612	21.515ug/ml	90
51)	Dibenzofuran	9.37	168	974451	20.202ug/ml	98
52)	2,4-Dinitrotoluene	9.35	165	275374	21.727ug/ml	97
53)	2,3,4,6-Tetrachlorophenol	9.58	232	205576	22.170ug/mL	98
54)	Diethylphthalate	9.80	149	896739	21.305ug/ml	98
55)	4-Chlorophenyl-phenylether	9.99	204	397898	20.952ug/ml	97
56)	Fluorene	9.97	166	851673	21.283ug/ml	98
58)	4-Nitroaniline	10.00	138	201785	25.962ug/ml	77
60)	4,6-Dinitro-2-methylphenol	10.06	198	151798	18.309ug/ml	93
62)	N-Nitrosodiphenylamine	10.19	169	609686	20.903ug/ml	99
63)	4-Bromophenyl-phenyl ether	10.86	248	232918	20.540ug/ml	100
64)	Hexachlorobenzene	10.95	284	261229	20.949ug/ml	88
65)	Atrazine	11.19	200	235813	22.109ug/ml	96
66)	Pentachlorophenol	11.30	266	173375	21.991ug/ml	99
67)	Phenanthrene	11.69	178	1248954	20.478ug/ml	100
68)	Anthracene	11.79	178	1300649	20.897ug/ml	100
70)	Carbazole	12.09	167	1091392	28.992ug/mL	99
71)	Di-n-butylphthalate	12.82	149	1623247	21.095ug/ml	99
72)	Fluoranthene	13.83	202	1347021	21.418ug/ml	95
74)	Pyrene	14.18	202	1385903	20.135ug/ml	95
76)	Butylbenzylphthalate	15.14	149	748149	20.526ug/ml	89
77)	3,3'-Dichlorobenzidine	15.79	252	443341	24.697ug/ml	98
78)	Benzo(a)anthracene	15.82	228	1287832	20.388ug/ml	100
79)	Chrysene	15.86	228	1154771	20.138ug/ml	100
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	1100258	20.510ug/ml	98
82)	Di-n-octylphthalate	16.84	149	1930402	21.083ug/ml	99
83)	Benzo(b)fluoranthene	17.50	252	1314801	20.849ug/ml	98
84)	Benzo(k)fluoranthene	17.55	252	1236075	20.214ug/ml	97
85)	Benzo(a)pyrene	18.14	252	1237836	20.349ug/ml	97
87)	Indeno(1,2,3-c,d)pyrene	21.00	276	1177585	19.748ug/ml	90
88)	Dibenzo(a,h)anthracene	21.08	278	1222620	19.985ug/ml	96
89)	Benzo(g,h,i)perylene	21.84	276	1150133	19.045ug/ml	94

(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.: F9L58

Instrument ID: 5975-G Calibration Date: 07/06/2015 Time: 14:39

Lab File ID: GCM01S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020GM Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	1.183	0.997	0.010	-15.7	40.0
Phenol	1.871	1.819	0.800	-2.7	25.0
Bis(2-chloroethyl)ether	1.549	1.561	0.700	0.8	25.0
2-Chlorophenol	1.382	1.372	0.800	-0.7	25.0
2-Methylphenol	1.274	1.293	0.700	1.5	25.0
2,2'-Oxybis(1-chloropropane)	3.802	3.802	0.010	0.0	40.0
Acetophenone	1.916	1.922	0.010	0.4	40.0
4-Methylphenol	1.399	1.325	0.600	-5.3	25.0
N-Nitroso-di-n-propylamine	1.047	1.008	0.500	-3.7	25.0
Hexachloroethane	0.701	0.711	0.300	1.3	25.0
Nitrobenzene	0.462	0.446	0.200	-3.3	25.0
Isophorone	0.795	0.758	0.400	-4.7	25.0
2-Nitrophenol	0.207	0.193	0.100	-6.3	25.0
2,4-Dimethylphenol	0.392	0.375	0.200	-4.3	25.0
Bis(2-chloroethoxy)methane	0.482	0.464	0.300	-3.6	25.0
2,4-Dichlorophenol	0.309	0.313	0.200	1.3	25.0
Naphthalene	1.011	1.026	0.700	1.5	25.0
4-Chloroaniline	0.351	0.343	0.010	-2.4	40.0
Hexachlorobutadiene	0.212	0.210	0.010	-0.7	40.0
Caprolactam	0.113	0.108	0.010	-4.4	40.0
4-Chloro-3-methylphenol	0.341	0.333	0.200	-2.6	25.0
2-Methylnaphthalene	0.640	0.634	0.400	-0.9	25.0
Hexachlorocyclopentadiene	0.412	0.393	0.010	-4.4	40.0
2,4,6-Trichlorophenol	0.418	0.414	0.200	-1.0	25.0
2,4,5-Trichlorophenol	0.410	0.411	0.200	0.2	25.0
1,1'-Biphenyl	1.362	1.385	0.010	1.7	40.0
2-Chloronaphthalene	1.168	1.136	0.800	-2.7	25.0
2-Nitroaniline	0.478	0.471	0.010	-1.4	40.0
Dimethylphthalate	1.309	1.252	0.010	-4.3	40.0
2,6-Dinitrotoluene	0.297	0.285	0.200	-4.2	25.0
Acenaphthylene	1.810	1.852	0.900	2.3	25.0
3-Nitroaniline	0.217	0.265	0.010	22.1	40.0
Acenaphthene	1.097	1.111	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.: F9L58

Instrument ID: 5975-G Calibration Date: 07/06/2015 Time: 14:39

Lab File ID: GCM01S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020GM Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.200	0.178	0.010	-11.1	40.0
4-Nitrophenol	0.198	0.199	0.010	0.2	40.0
Dibenzofuran	1.444	1.438	0.800	-0.5	25.0
2,4-Dinitrotoluene	0.395	0.385	0.200	-2.6	25.0
Diethylphthalate	1.358	1.350	0.010	-0.6	40.0
Fluorene	1.203	1.211	0.900	0.7	25.0
4-Chlorophenyl-phenylether	0.607	0.581	0.400	-4.3	25.0
4-Nitroaniline	0.256	0.263	0.010	2.4	40.0
4,6-Dinitro-2-methylphenol	0.165	0.158	0.010	-4.7	40.0
N-Nitrosodiphenylamine (1)	0.565	0.555	0.010	-1.8	40.0
1,2,4,5-Tetrachlorobenzene	0.557	0.520	0.010	-6.7	40.0
4-Bromophenyl-phenylether	0.214	0.205	0.100	-3.9	25.0
Hexachlorobenzene	0.227	0.213	0.100	-6.1	25.0
Atrazine	0.205	0.204	0.010	-0.7	40.0
Pentachlorophenol	0.141	0.107	0.050	-24.0	25.0
Phenanthrene	1.067	1.071	0.700	0.4	25.0
Anthracene	1.089	1.094	0.700	0.5	25.0
Carbazole	0.746	0.915	0.010	22.8	40.0
Di-n-butylphthalate	1.476	1.460	0.010	-1.1	40.0
Fluoranthene	1.175	1.192	0.600	1.4	25.0
Pyrene	1.273	1.275	0.600	0.1	25.0
Butylbenzylphthalate	0.679	0.682	0.010	0.4	40.0
3,3'-Dichlorobenzidine	0.297	0.375	0.010	26.4	40.0
Benzo(a)anthracene	1.213	1.217	0.800	0.3	25.0
Chrysene	1.096	1.073	0.700	-2.0	25.0
Bis(2-ethylhexyl)phthalate	0.989	1.012	0.010	2.3	40.0
Di-n-octylphthalate	1.988	1.994	0.010	0.3	40.0
Benzo(b)fluoranthene	1.253	1.213	0.700	-3.2	25.0
Benzo(k)fluoranthene	1.183	1.204	0.700	1.7	25.0
Benzo(a)pyrene	1.179	1.172	0.700	-0.6	25.0
Indeno(1,2,3-cd)pyrene	1.042	1.086	0.500	4.2	25.0
Dibenzo(a,h)anthracene	1.043	1.081	0.400	3.7	25.0
Benzo(g,h,i)perylene	1.026	1.093	0.500	6.5	25.0
2,3,4,6-Tetrachlorophenol	0.332	0.304	0.100	-8.4	25.0

(1) Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-G Calibration Date: 07/06/2015 Time: 14:39

Lab File ID: GCM01S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020GM Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.740	1.675	0.010	-3.8	25.0
Bis(2-chloroethyl)ether-d8	1.356	1.292	0.010	-4.8	25.0
2-Chlorophenol-d4	1.470	1.445	0.010	-1.7	25.0
4-Methylphenol-d8	1.164	1.188	0.010	2.1	25.0
Nitrobenzene-d5	0.176	0.168	0.010	-4.4	25.0
2-Nitrophenol-d4	0.186	0.177	0.010	-4.7	25.0
2,4-Dichlorophenol-d3	0.289	0.283	0.010	-2.1	25.0
4-Chloroaniline-d4	0.316	0.282	0.010	-10.6	40.0
Dimethylphthalate-d6	1.254	1.183	0.010	-5.7	40.0
Acenaphthylene-d8	1.704	1.674	0.010	-1.8	25.0
4-Nitrophenol-d4	0.256	0.222	0.010	-13.1	40.0
Fluorene-d10	1.071	1.051	0.010	-1.9	25.0
4,6-Dinitro-2-methylphenol-d2	0.142	0.131	0.010	-7.6	40.0
Anthracene-d10	1.061	1.009	0.010	-4.8	25.0
Pyrene-d10	0.998	0.952	0.010	-4.6	25.0
Benzo(a)pyrene-d12	0.958	0.909	0.010	-5.1	25.0

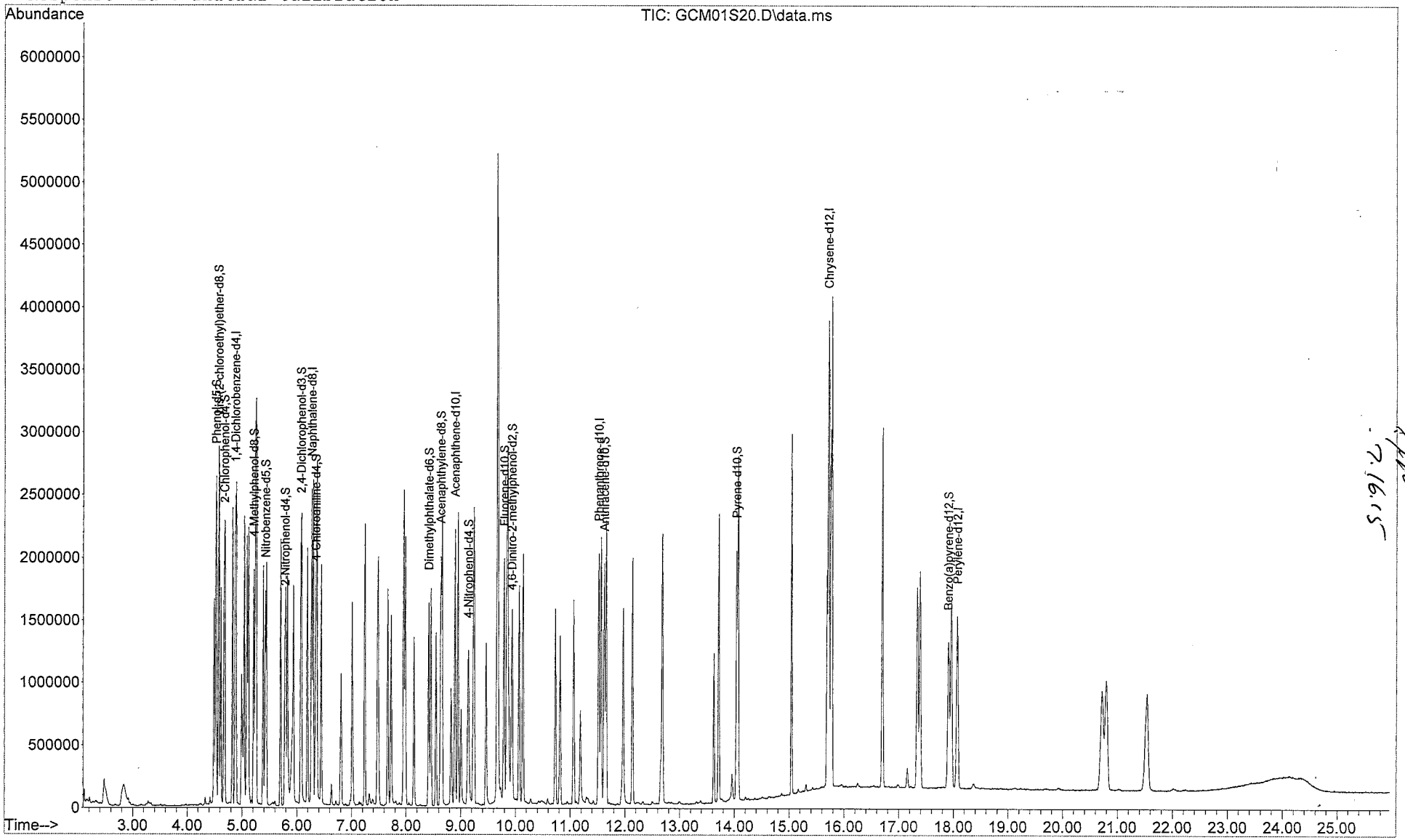
Quantitation Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM01S20.D
Acq On : 07/06/2015 14:39
Sample : SSTD020GM 28543 DFTPPGM
Misc : . X07/19/15
MS Integration Params: rteint.p

Vial: 1
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 06 15:05:59 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM01S20.D Vial: 1
Acq On : 07/06/2015 14:39 Operator: TJM
Sample : SSTD020GM 28543 DFTPPGM Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 06 15:05:59 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	330588	20.00 ug/ml
16) Naphthalene-d8	6.27	136	1246330	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	698318	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1125196	20.00 ug/ml
73) Chrysene-d12	15.73	240	1090563	20.00 ug/ml
81) Perylene-d12	18.07	264	979072	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.52	99	553697	19.247ug/ml
6) bis-(2-chloroethyl)ether-d	4.57	67	427029	19.047ug/mL
7) 2-Chlorophenol-d4	4.67	132	477690	19.666ug/ml
13) 4-Methylphenol-d8	5.21	113	392763	20.412ug/mL
17) Nitrobenzene-d5	5.42	128	209308	19.117ug/ml
21) 2-Nitrophenol-d4	5.78	143	220539	19.057ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	352853	19.581ug/mL
28) 4-Chloroaniline-d4	6.34	131	351570	17.873ug/mL
42) Dimethylphthalate-d6	8.42	166	826202	18.868ug/mL
45) Acenaphthylene-d8	8.63	160	1168762	19.640ug/mL
50) 4-Nitrophenol-d4	9.13	143	155335	17.389ug/mL
57) Fluorene-d10	9.79	176	733868	19.624ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	147621	18.484ug/mL
69) Anthracene-d10	11.62	188	1135700	19.033ug/mL
75) Pyrene-d10	14.04	212	1038642	19.084ug/mL
86) Benzo(a)pyrene-d12	17.91	264	890401	18.979ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.49	77	329758	16.858ug/ml 86
4) Phenol	4.53	94	601502	19.454ug/ml 74
5) Bis(2-chloroethyl)ether	4.61	93	516205	20.157ug/ml 89
8) 2-Chlorophenol	4.68	128	453520	19.851ug/ml 81
9) 2-Methylphenol	5.09	108	427353	20.301ug/ml 96
10) 2,2'-Oxybis-(1-chloropropa	5.11	45	1256782	20.001ug/ml 100
11) Acetophenone	5.26	105	635506	20.071ug/ml 42
12) 4-methylphenol	5.23	108	438116	18.948ug/ml 98
14) N-Nitroso-di-n-propylamine	5.25	70	333129	19.258ug/ml 66
15) Hexachloroethane	5.38	117	234935	20.268ug/ml 99
18) Nitrobenzene	5.44	77	556451	19.339ug/ml 86
19) Isophorone	5.70	82	944410	19.060ug/ml 87
20) 2-Nitrophenol	5.80	139	241081	18.733ug/ml 70
22) 2,4-Dimethylphenol	5.83	107	467594	19.132ug/ml 84
23) Bis(2-chloroethoxy)methane	5.94	93	578661	19.279ug/ml 99
24) 2,4-Dichlorophenol	6.08	162	390041	20.263ug/ml 95
26) Naphthalene	6.29	128	1278481	20.291ug/ml 99
27) 4-Chloroaniline	6.36	127	426956	19.527ug/ml 89
29) Hexachlorobutadiene	6.45	225	261813	19.855ug/ml 99
30) Caprolactam	6.81	113	134257	19.122ug/ml 33
31) 4-Chloro-3-methylphenol	7.01	107	414466	19.489ug/ml 90
32) 2-Methylnaphthalene	7.25	142	790213	19.819ug/ml 98
34) 1,2,4,5-Tetrachlorobenzene	7.49	216	363064	18.667ug/mL 98
35) Hexachlorocyclopentadiene	7.47	237	274698	19.113ug/ml 98
36) 2,4,6-Trichlorophenol	7.66	196	289316	19.802ug/ml 99
37) 2,4,5-Trichlorophenol	7.73	196	286689	20.031ug/ml 98
38) 1,1'-Biphenyl	7.96	154	967217	20.336ug/ml 98
39) 2-Chloronaphthalene	7.99	162	793419	19.458ug/ml 96
40) 2-Nitroaniline	8.15	65	329188	19.725ug/ml 74
41) Dimethylphthalate	8.46	163	874569	19.130ug/ml 99
43) 2,6-Dinitrotoluene	8.55	165	198833	19.156ug/ml 87

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM01S20.D Vial: 1
Acq On : 07/06/2015 14:39 Operator: TJM
Sample : SSTD020GM 28543 DFTPPGM Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 06 15:05:59 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	8.66	152	1293102	20.462ug/ml	99
46)	3-Nitroaniline	8.83	138	185161	24.421ug/ml	84
47)	Acenaphthene	8.95	153	775854	20.258ug/ml	95
48)	2,4-Dinitrophenol	9.00	184	124149	17.784ug/ml	100
49)	4-Nitrophenol	9.15	109	138636	20.042ug/ml	76
51)	Dibenzofuran	9.25	168	1003996	19.909ug/ml	95
52)	2,4-Dinitrotoluene	9.23	165	268644	19.489ug/ml	33
53)	2,3,4,6-Tetrachlorophenol	9.46	232	212447	18.311ug/mL	96
54)	Diethylphthalate	9.68	149	942609	19.878ug/ml	96
55)	4-Chlorophenyl-phenylether	9.86	204	405724	19.143ug/ml	97
56)	Fluorene	9.85	166	846005	20.138ug/ml	98
58)	4-Nitroaniline	9.88	138	183345	20.474ug/ml	94
60)	4,6-Dinitro-2-methylphenol	9.95	198	177219	19.068ug/ml	86
62)	N-Nitrosodiphenylamine	10.07	169	624764	19.639ug/ml	93
63)	4-Bromophenyl-phenyl ether	10.73	248	231156	19.217ug/ml	96
64)	Hexachlorobenzene	10.82	284	240044	18.785ug/ml	93
65)	Atrazine	11.06	200	229398	19.870ug/ml	98
66)	Pentachlorophenol	11.19	266	120399	15.203ug/ml	99
67)	Phenanthrene	11.56	178	1205086	20.080ug/ml	99
68)	Anthracene	11.66	178	1230464	20.090ug/ml	99
70)	Carbazole	11.97	167	1030079	24.552ug/mL	99
71)	Di-n-butylphthalate	12.69	149	1642656	19.780ug/ml	99
72)	Fluoranthene	13.72	202	1341299	20.283ug/ml	95
74)	Pyrene	14.07	202	1390071	20.024ug/ml	95
76)	Butylbenzylphthalate	15.04	149	743561	20.078ug/ml	89
77)	3,3'-Dichlorobenzidine	15.69	252	409048	25.271ug/ml	98
78)	Benzo(a)anthracene	15.72	228	1327056	20.058ug/ml	99
79)	Chrysene	15.76	228	1170467	19.591ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.78	149	1103509	20.461ug/ml	96
82)	Di-n-octylphthalate	16.70	149	1951893	20.060ug/ml	96
83)	Benzo(b)fluoranthene	17.34	252	1187815	19.370ug/ml	96
84)	Benzo(k)fluoranthene	17.39	252	1178644	20.349ug/ml	96
85)	Benzo(a)pyrene	17.96	252	1147205	19.880ug/ml	95
87)	Indeno(1,2,3-c,d)pyrene	20.72	276	1063046	20.834ug/ml	91
88)	Dibenzo(a,h)anthracene	20.80	278	1058514	20.731ug/ml	96
89)	Benzo(g,h,i)perylene	21.54	276	1070444	21.309ug/ml	93

(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.: F9L58

Instrument ID: 5975-G Calibration Date: 07/06/2015 Time: 21:12

Lab File ID: GCM13S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020M1 Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	1.183	0.992	0.010	-16.2	50.0
Phenol	1.871	1.819	0.010	-2.7	50.0
Bis(2-chloroethyl)ether	1.549	1.491	0.010	-3.7	50.0
2-Chlorophenol	1.382	1.339	0.010	-3.2	50.0
2-Methylphenol	1.274	1.401	0.010	10.0	50.0
2,2'-Oxybis(1-chloropropane)	3.802	3.780	0.010	-0.6	50.0
Acetophenone	1.916	1.965	0.010	2.6	50.0
4-Methylphenol	1.399	1.362	0.010	-2.7	50.0
N-Nitroso-di-n-propylamine	1.047	1.071	0.010	2.3	50.0
Hexachloroethane	0.701	0.569	0.010	-18.9	50.0
Nitrobenzene	0.462	0.447	0.010	-3.2	50.0
Isophorone	0.795	0.809	0.010	1.7	50.0
2-Nitrophenol	0.207	0.198	0.010	-4.0	50.0
2,4-Dimethylphenol	0.392	0.391	0.010	-0.3	50.0
Bis(2-chloroethoxy)methane	0.482	0.472	0.010	-2.0	50.0
2,4-Dichlorophenol	0.309	0.312	0.010	1.1	50.0
Naphthalene	1.011	1.022	0.010	1.0	50.0
4-Chloroaniline	0.351	0.399	0.010	13.8	50.0
Hexachlorobutadiene	0.212	0.211	0.010	-0.4	50.0
Caprolactam	0.113	0.120	0.010	6.9	50.0
4-Chloro-3-methylphenol	0.341	0.362	0.010	6.1	50.0
2-Methylnaphthalene	0.640	0.652	0.010	1.8	50.0
Hexachlorocyclopentadiene	0.412	0.084	0.010	-79.7	50.0
2,4,6-Trichlorophenol	0.418	0.410	0.010	-2.1	50.0
2,4,5-Trichlorophenol	0.410	0.425	0.010	3.6	50.0
1,1'-Biphenyl	1.362	1.349	0.010	-0.9	50.0
2-Chloronaphthalene	1.168	1.111	0.010	-4.9	50.0
2-Nitroaniline	0.478	0.490	0.010	2.6	50.0
Dimethylphthalate	1.309	1.341	0.010	2.4	50.0
2,6-Dinitrotoluene	0.297	0.304	0.010	2.2	50.0
Acenaphthylene	1.810	1.842	0.010	1.8	50.0
3-Nitroaniline	0.217	0.333	0.010	53.5	50.0
Acenaphthene	1.097	1.123	0.010	2.3	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.: F9L58

Instrument ID: 5975-G Calibration Date: 07/06/2015 Time: 21:12

Lab File ID: GCM13S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020M1 Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.200	0.122	0.010	-38.9	50.0
4-Nitrophenol	0.198	0.226	0.010	13.8	50.0
Dibenzofuran	1.444	1.458	0.010	0.9	50.0
2,4-Dinitrotoluene	0.395	0.409	0.010	3.6	50.0
Diethylphthalate	1.358	1.396	0.010	2.8	50.0
Fluorene	1.203	1.274	0.010	5.9	50.0
4-Chlorophenyl-phenylether	0.607	0.619	0.010	1.9	50.0
4-Nitroaniline	0.256	0.329	0.010	28.4	50.0
4,6-Dinitro-2-methylphenol	0.165	0.112	0.010	-32.0	50.0
N-Nitrosodiphenylamine (1)	0.565	0.552	0.010	-2.3	50.0
1,2,4,5-Tetrachlorobenzene	0.557	0.506	0.010	-9.1	50.0
4-Bromophenyl-phenylether	0.214	0.202	0.010	-5.7	50.0
Hexachlorobenzene	0.227	0.215	0.010	-5.3	50.0
Atrazine	0.205	0.204	0.010	-0.8	50.0
Pentachlorophenol	0.141	0.117	0.010	-17.2	50.0
Phenanthrene	1.067	1.062	0.010	-0.5	50.0
Anthracene	1.089	1.101	0.010	1.2	50.0
Carbazole	0.746	0.943	0.010	26.4	50.0
Di-n-butylphthalate	1.476	1.513	0.010	2.5	50.0
Fluoranthene	1.175	1.219	0.010	3.7	50.0
Pyrene	1.273	1.296	0.010	1.8	50.0
Butylbenzylphthalate	0.679	0.703	0.010	3.5	50.0
3,3'-Dichlorobenzidine	0.297	0.395	0.010	33.0	50.0
Benzo(a)anthracene	1.213	1.225	0.010	1.0	50.0
Chrysene	1.096	1.088	0.010	-0.7	50.0
Bis(2-ethylhexyl)phthalate	0.989	1.028	0.010	4.0	50.0
Di-n-octylphthalate	1.988	2.646	0.010	33.1	50.0
Benzo(b)fluoranthene	1.253	1.377	0.010	9.9	50.0
Benzo(k)fluoranthene	1.183	1.365	0.010	15.3	50.0
Benzo(a)pyrene	1.179	1.203	0.010	2.0	50.0
Indeno(1,2,3-cd)pyrene	1.042	0.689	0.010	-33.9	50.0
Dibenzo(a,h)anthracene	1.043	0.758	0.010	-27.4	50.0
Benzo(g,h,i)perylene	1.026	0.596	0.010	-41.9	50.0
2,3,4,6-Tetrachlorophenol	0.332	0.342	0.010	2.8	50.0

(1) Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-G Calibration Date: 07/06/2015 Time: 21:12

Lab File ID: GCM13S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020M1 Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.740	1.682	0.010	-3.3	50.0
Bis(2-chloroethyl)ether-d8	1.356	1.314	0.010	-3.1	50.0
2-Chlorophenol-d4	1.470	1.444	0.010	-1.7	50.0
4-Methylphenol-d8	1.164	1.226	0.010	5.3	50.0
Nitrobenzene-d5	0.176	0.167	0.010	-5.0	50.0
2-Nitrophenol-d4	0.186	0.174	0.010	-6.6	50.0
2,4-Dichlorophenol-d3	0.289	0.295	0.010	1.9	50.0
4-Chloroaniline-d4	0.316	0.383	0.010	21.5	50.0
Dimethylphthalate-d6	1.254	1.249	0.010	-0.4	50.0
Acenaphthylene-d8	1.704	1.671	0.010	-2.0	50.0
4-Nitrophenol-d4	0.256	0.245	0.010	-4.1	50.0
Fluorene-d10	1.071	1.075	0.010	0.4	50.0
4,6-Dinitro-2-methylphenol-d2	0.142	0.096	0.010	-32.5	50.0
Anthracene-d10	1.061	1.013	0.010	-4.5	50.0
Pyrene-d10	0.998	0.971	0.010	-2.7	50.0
Benzo(a)pyrene-d12	0.958	0.943	0.010	-1.6	50.0

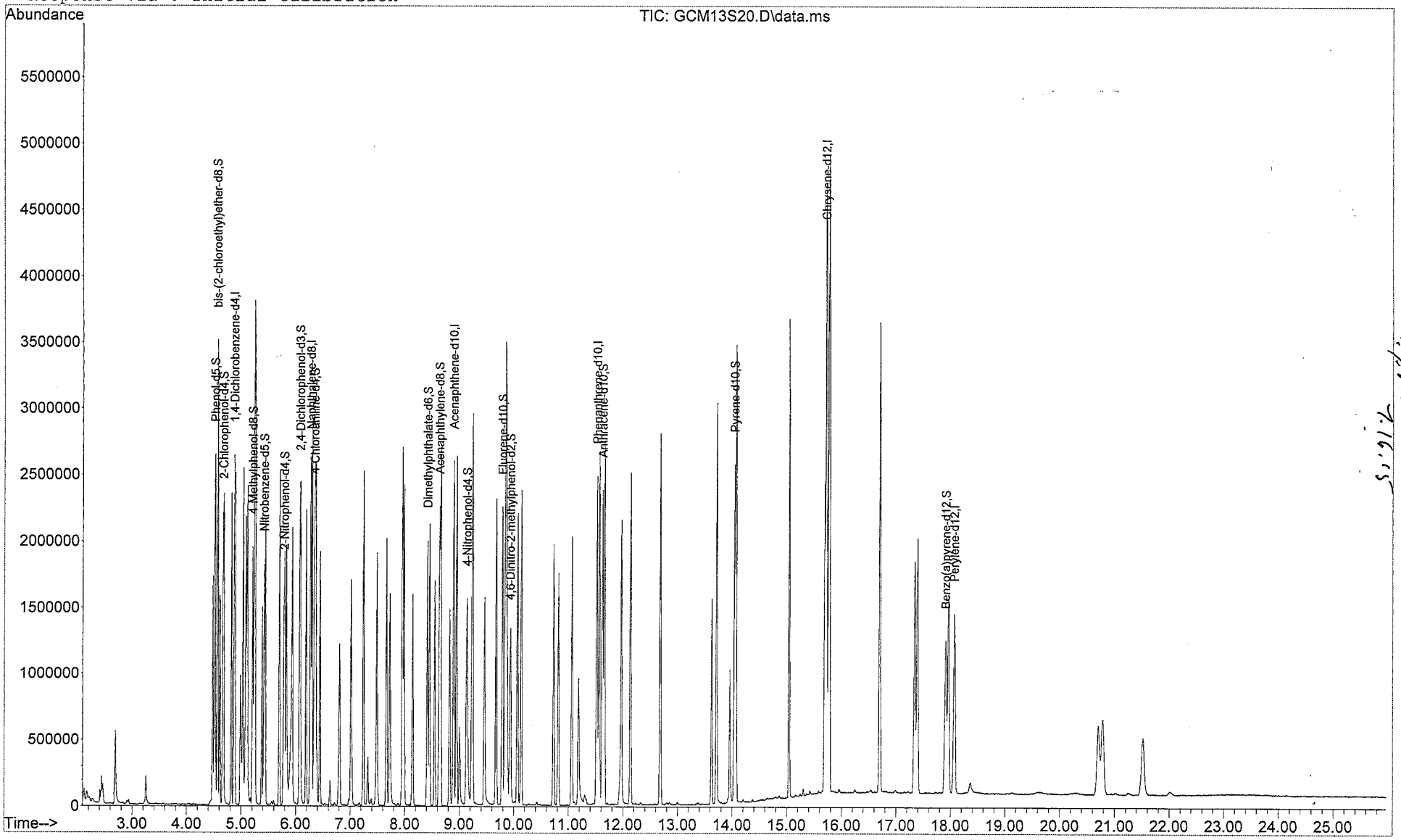
Quantitation Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM13S20.D
Acq On : 07/06/2015 21:12
Sample : SSTD020M1 28543 DFTPPM1
Misc : . X07/19/15
MS Integration Params: rteint.p

Vial: 1
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 06 21:38:37 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM13S20.D Vial: 1
Acq On : 07/06/2015 21:12 Operator: TJM
Sample : SSTD020M1 28543 DFTPPM1 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 06 21:38:37 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	342960	20.00 ug/ml
16) Naphthalene-d8	6.27	136	1326277	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	803738	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1416197	20.00 ug/ml
73) Chrysene-d12	15.73	240	1395006	20.00 ug/ml
81) Perylene-d12	18.07	264	953047	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	577010	19.333ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	450698	19.378ug/mL
7) 2-Chlorophenol-d4	4.66	132	495213	19.652ug/ml
13) 4-Methylphenol-d8	5.20	113	420451	21.062ug/mL
17) Nitrobenzene-d5	5.42	128	221307	18.995ug/ml
21) 2-Nitrophenol-d4	5.78	143	230155	18.689ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	390742	20.376ug/mL
28) 4-Chloroaniline-d4	6.33	131	508480	24.292ug/mL
42) Dimethylphthalate-d6	8.42	166	1004259	19.926ug/mL
45) Acenaphthylene-d8	8.63	160	1342660	19.603ug/mL
50) 4-Nitrophenol-d4	9.13	143	197257	19.185ug/mL
57) Fluorene-d10	9.79	176	863901	20.072ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	135782	13.508ug/mL
69) Anthracene-d10	11.62	188	1435150	19.109ug/mL
75) Pyrene-d10	14.04	212	1355092	19.465ug/mL
86) Benzo(a)pyrene-d12	17.91	264	899041	19.686ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.48	77	340284	16.768ug/ml	85
4) Phenol	4.52	94	623930	19.451ug/ml	74
5) Bis(2-chloroethyl)ether	4.61	93	511497	19.253ug/ml	88
8) 2-Chlorophenol	4.68	128	459101	19.370ug/ml	81
9) 2-Methylphenol	5.08	108	480517	22.003ug/ml	98
10) 2,2'-Oxybis-(1-chloropropa	5.11	45	1296473	19.888ug/ml	100
11) Acetophenone	5.25	105	673746	20.511ug/ml	40
12) 4-methylphenol	5.23	108	466997	19.469ug/ml	97
14) N-Nitroso-di-n-propylamine	5.25	70	367284	20.467ug/ml	66
15) Hexachloroethane	5.38	117	195002	16.216ug/ml	98
18) Nitrobenzene	5.44	77	592524	19.352ug/ml	86
19) Isophorone	5.70	82	1073017	20.350ug/ml	88
20) 2-Nitrophenol	5.79	139	262910	19.198ug/ml	75
22) 2,4-Dimethylphenol	5.82	107	518545	19.938ug/ml	83
23) Bis(2-chloroethoxy)methane	5.93	93	626187	19.604ug/ml	99
24) 2,4-Dichlorophenol	6.08	162	414362	20.228ug/ml	97
26) Naphthalene	6.29	128	1355019	20.209ug/ml	99
27) 4-Chloroaniline	6.35	127	529631	22.762ug/ml	87
29) Hexachlorobutadiene	6.45	225	279554	19.923ug/ml	99
30) Caprolactam	6.80	113	159718	21.378ug/ml	28
31) 4-Chloro-3-methylphenol	7.01	107	480148	21.216ug/ml	89
32) 2-Methylnaphthalene	7.24	142	864266	20.370ug/ml	98
34) 1,2,4,5-Tetrachlorobenzene	7.49	216	407082	18.185ug/mL	99
35) Hexachlorocyclopentadiene	7.47	237	67243	4.065ug/ml	95
36) 2,4,6-Trichlorophenol	7.66	196	329178	19.575ug/ml	99
37) 2,4,5-Trichlorophenol	7.73	196	341405	20.725ug/ml	99
38) 1,1'-Biphenyl	7.96	154	1084622	19.814ug/ml	99
39) 2-Chloronaphthalene	7.99	162	892919	19.026ug/ml	97
40) 2-Nitroaniline	8.15	65	394032	20.513ug/ml	75
41) Dimethylphthalate	8.46	163	1077871	20.485ug/ml	99
43) 2,6-Dinitrotoluene	8.55	165	244235	20.443ug/ml	88

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : R:\G\2015\JUL15\06JUL15PM\GCM13S20.D Vial: 1
Acq On : 07/06/2015 21:12 Operator: TJM
Sample : SSTD020M1 28543 DFTPPM1 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 06 21:38:37 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	8.66	152	1480484	20.355ug/ml	99
46)	3-Nitroaniline	8.82	138	267869	30.696ug/ml	85
47)	Acenaphthene	8.95	153	902275	20.469ug/ml	94
48)	2,4-Dinitrophenol	9.00	184	98164	12.217ug/ml	100
49)	4-Nitrophenol	9.15	109	181277	22.769ug/ml	76
51)	Dibenzofuran	9.25	168	1171658	20.186ug/ml	94
52)	2,4-Dinitrotoluene	9.23	165	328875	20.729ug/ml	35
53)	2,3,4,6-Tetrachlorophenol	9.46	232	274667	20.569ug/mL	98
54)	Diethylphthalate	9.67	149	1122355	20.564ug/ml	96
55)	4-Chlorophenyl-phenylether	9.86	204	497331	20.388ug/ml	98
56)	Fluorene	9.84	166	1023696	21.171ug/ml	98
58)	4-Nitroaniline	9.88	138	264711	25.683ug/ml	96
60)	4,6-Dinitro-2-methylphenol	9.95	198	159032	13.595ug/ml	84
62)	N-Nitrosodiphenylamine	10.07	169	782395	19.540ug/ml	94
63)	4-Bromophenyl-phenyl ether	10.73	248	285650	18.868ug/ml	97
64)	Hexachlorobenzene	10.82	284	304539	18.936ug/ml	92
65)	Atrazine	11.06	200	288354	19.844ug/ml	99
66)	Pentachlorophenol	11.19	266	165048	16.559ug/ml	98
67)	Phenanthrene	11.56	178	1503679	19.907ug/ml	99
68)	Anthracene	11.66	178	1559711	20.233ug/ml	99
70)	Carbazole	11.97	167	1334847	25.278ug/mL	99
71)	Di-n-butylphthalate	12.69	149	2142371	20.497ug/ml	99
72)	Fluoranthene	13.72	202	1725732	20.734ug/ml	95
74)	Pyrene	14.07	202	1808304	20.364ug/ml	95
76)	Butylbenzylphthalate	15.04	149	980160	20.691ug/ml	92
77)	3,3'-Dichlorobenzidine	15.69	252	550691	26.597ug/ml	98
78)	Benzo(a)anthracene	15.72	228	1708771	20.191ug/ml	98
79)	Chrysene	15.76	228	1517121	19.852ug/ml	98
80)	Bis-(2-ethylhexyl)phthalat	15.78	149	1434261	20.790ug/ml	96
82)	Di-n-octylphthalate	16.70	149	2521389	26.621ug/ml	96
83)	Benzo(b)fluoranthene	17.34	252	1311943	21.978ug/ml	96
84)	Benzo(k)fluoranthene	17.39	252	1300433	23.065ug/ml	96
85)	Benzo(a)pyrene	17.96	252	1146114	20.403ug/ml	95
87)	Indeno(1,2,3-c,d)pyrene	20.70	276	656583	13.220ug/ml	91
88)	Dibenzo(a,h)anthracene	20.79	278	722000	14.526ug/ml	95
89)	Benzo(g,h,i)perylene	21.52	276	567966	11.615ug/ml	93

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

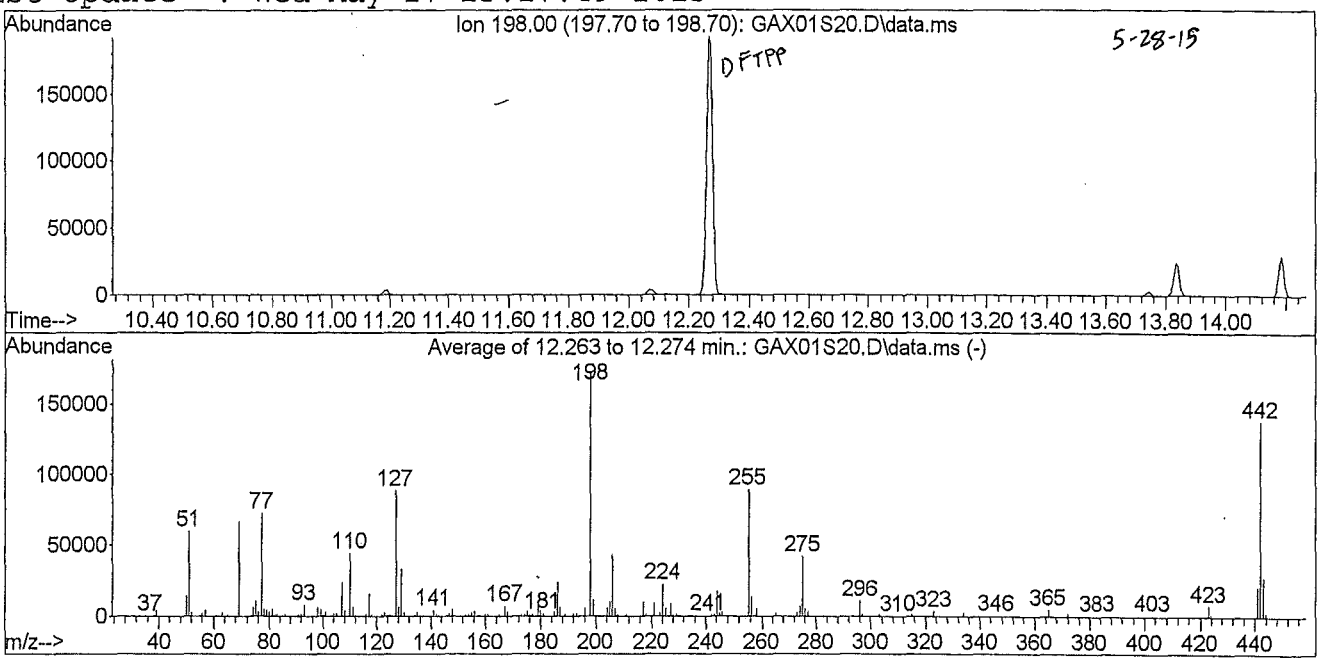
DFTPP

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

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		

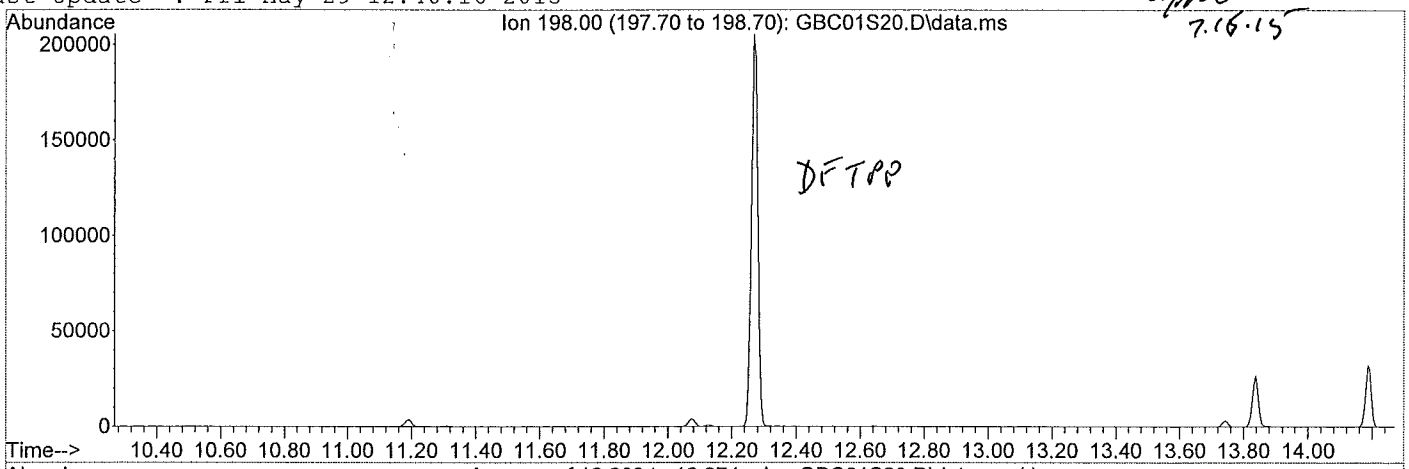
DFTPP

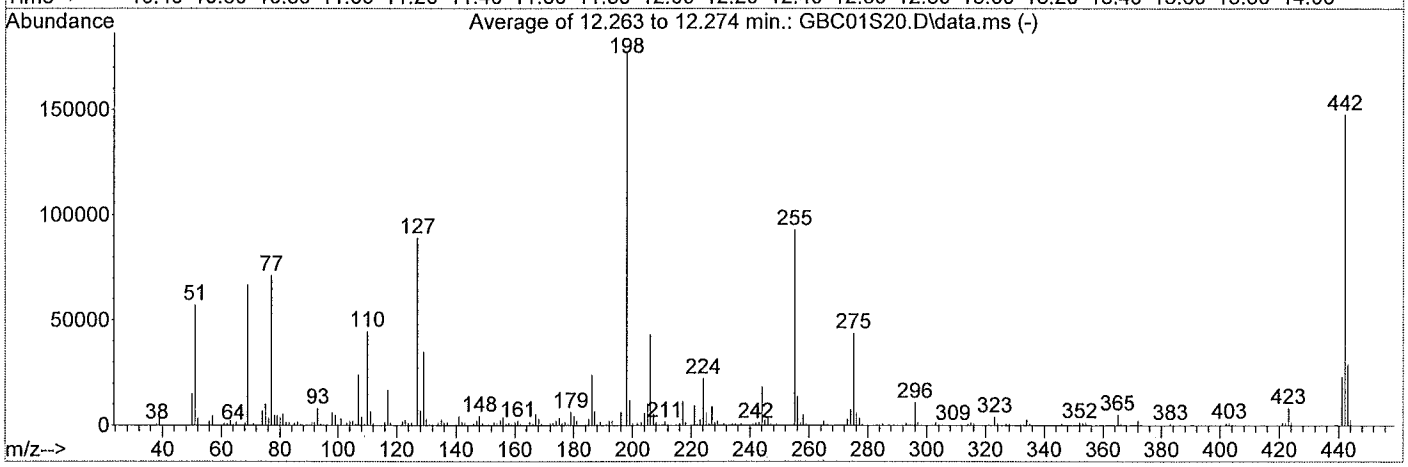
Data Path : R:\G\2015\JUN15\02JUN15\
Data File : GBC01S20.D
Acq On : 06/02/2015 11:34
Operator : DJC
Sample : SSTD020GC 28237 DFTPPGC
Inst : 5975-G
Misc : . X06/19/15
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : R:\G\METHODS\GSOM01D4.M
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015

7.16.15





AVERAGE OF SCANS: 1730, 1731, 1732 ; BACKGROUND CORRECTED WITH SCAN 1719.

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	32.2	57036	PASS
68	69	0.00	2	1.7	1124	PASS
69	198	0.00	100	37.6	66661	PASS
70	69	0.00	2	0.4	276	PASS
127	198	10	80	50.2	89008	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	177280	PASS
199	198	5	9	6.7	11851	PASS
275	198	10	60	24.6	43675	PASS
365	198	1	100	2.8	4908	PASS
441	443	0.01	100	79.2	23001	PASS
442	198	50	100	83.3	147587	PASS
443	442	15	24	19.7	29045	PASS

Average of 12.263 to 12.274 min.: GBC01S20.D\data.ms
SSTD020GC 28237 DFTPPGC
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.05	151	53.00	85	68.15	1124	80.05	3664
38.05	728	54.95	233	69.00	66661	81.00	5145
39.05	3833	56.00	1829	69.95	276	82.05	1312
40.05	289	57.00	4367	71.00	562	83.05	1328
41.00	62	58.00	224	73.00	534	85.00	1033
43.95	17	61.00	795	74.05	6709	86.00	1582
44.90	51	62.00	756	75.00	10021	87.05	570
49.05	382	63.00	2366	76.10	3382	87.95	230
50.10	14879	64.05	423	77.05	71072	89.00	120
51.05	57036	65.05	1431	78.10	4726	91.00	1331
52.05	3168	66.90	112	79.00	4742	91.95	1360

Average of 12.263 to 12.274 min.: GBC01S20.D\data.ms
SSTD020GC 28237 DFTPPGC
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.00	7959	103.00	1031	113.05	1	125.00	940
94.00	645	104.05	1792	115.20	149	127.00	89008
95.05	253	105.05	1900	116.05	1317	128.00	6871
96.05	411	106.05	678	117.00	16664	129.00	34781
96.90	93	107.00	23765	118.00	1118	130.00	3007
97.10	140	108.00	3756	118.95	171	131.00	589
98.00	5899	108.90	179	119.90	289	132.00	422
99.00	4710	109.15	613	120.90	63	133.10	64
99.95	517	110.00	44579	122.00	1628	133.95	1025
101.00	2988	111.00	6517	123.00	2470	135.05	2628
101.95	223	112.00	845	123.95	1090	135.95	1216

Average of 12.263 to 12.274 min.: GBC01S20.D\data.ms
SSTD020GC 28237 DFTPPGC
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
137.05	1183	148.95	1002	158.00	869	169.05	788
138.00	256	149.90	68	159.00	641	170.05	314
140.00	516	150.05	217	160.05	1329	171.05	279
141.00	4195	151.00	183	161.05	1976	172.00	717
142.00	1563	151.15	520	162.05	607	172.95	1006
142.95	1021	151.75	464	162.95	209	174.00	1971
144.05	247	153.00	1451	164.05	221	175.05	3292
144.95	258	154.00	979	165.00	1327	176.05	973
146.05	796	155.05	2361	166.10	578	177.00	1517
147.05	2146	156.05	3649	167.10	5186	177.95	569
148.00	4328	157.05	777	168.05	2893	179.00	6170

Average of 12.263 to 12.274 min.: GBC01S20.D\data.ms
SSTD020GC 28237 DFTPPGC
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
180.05	4291	189.85	200	200.05	886	211.00	1573
181.00	2093	190.90	206	201.55	925	211.90	170
182.05	352	191.05	434	202.00	151	213.00	56
182.80	81	192.00	1950	203.05	1275	214.95	406
184.00	541	193.05	2151	204.10	5862	216.05	858
185.05	2860	194.00	505	205.10	10316	217.00	11074
186.10	23805	194.90	238	206.10	43120	218.05	1284
187.10	6665	195.20	162	207.10	5691	220.00	60
187.90	174	196.05	6066	208.05	1464	221.10	9309
188.05	548	198.00	177280	209.00	415	221.90	613
189.00	1307	199.00	11851	210.15	506	223.05	2529

Average of 12.263 to 12.274 min.: GBC01S20.D\data.ms
SSTD020GC 28237 DFTPPGC
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
224.10	22116	235.05	713	247.05	691	259.05	751
225.10	5869	236.00	473	248.05	146	260.00	109
226.10	738	236.95	733	249.05	578	260.95	125
227.05	8808	239.00	326	250.80	73	264.05	115
228.05	1385	240.05	266	251.10	82	265.05	1965
229.00	1921	241.05	580	252.10	158	266.05	413
230.05	313	242.05	1151	253.15	362	271.15	252
231.10	828	243.15	1431	255.10	92752	272.10	377
231.90	55	244.10	18218	256.10	13539	273.05	2972
233.00	125	245.10	2625	257.05	1022	274.10	7489

234.00	654	246.05	3546	258.05	4951	275.10	43675

Average of 12.263 to 12.274 min.: GBC01S20.D\data.ms
SSTD020GC 28237 DFTPPGC
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
276.10	5869	292.05	167	308.00	59	324.05	757
277.05	3378	293.05	874	309.00	186	326.95	590
278.10	564	294.00	220	310.05	128	328.05	392
278.90	55	295.10	130	313.10	51	332.00	292
283.05	382	296.10	10718	314.05	638	333.05	431
283.95	228	297.00	1512	315.00	1165	334.10	2630
285.05	568	298.05	150	316.05	729	335.05	638
286.00	51	301.10	178	317.05	129	341.05	386
289.05	104	302.00	233	321.10	406	341.90	68
290.00	60	303.05	1213	322.05	263	342.10	64
291.00	53	304.05	440	323.10	3821	346.05	672

Average of 12.263 to 12.274 min.: GBC01S20.D\data.ms
SSTD020GC 28237 DFTPPGC
Modified:subtracted

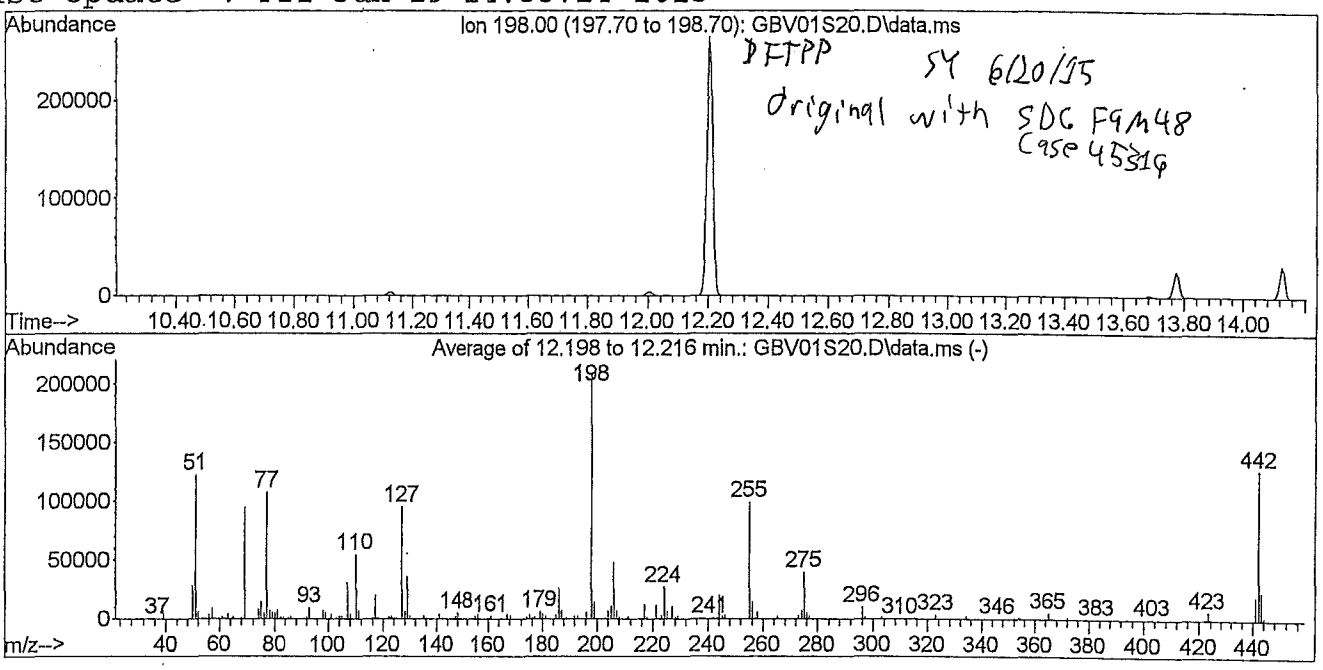
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
347.00	51	373.05	540	422.05	991	439.10	266
352.05	1254	383.05	593	423.10	8205	439.60	288
353.10	858	384.00	125	424.05	1564	441.10	23001
354.10	1283	390.05	332	425.05	119	442.10	147587
355.05	196	390.95	126	436.30	68	443.10	29045
359.10	74	391.20	51	436.50	68	444.10	2715
365.05	4908	391.90	67	436.90	76	445.10	132
366.00	762	402.05	751	437.40	78		
370.00	66	403.05	1103	437.80	79		
371.10	295	404.05	396	438.30	57		
372.10	2134	421.05	1093	438.70	218		

DFTPP

Data Path : C:\msdchem\1\data\2015\JUN15\20JUN15\
Data File : GBV01S20.D
Acq On : 06/20/2015 10:04
Operator : DJC
Sample : SSTD020GT DFTPPGT
Inst : 5975-G
Misc : . X07/19/15
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\GSOM01D6.M
Title : EPA/CLP SOM01
Last Update : Fri Jun 19 14:55:14 2015



Average of scans 1720, 1721, 1722 Background corrected with scan 1713

Spectrum Information: Average of 12.198 to 12.216 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	58.4	122479	PASS
68	69	0.00	2	1.4	1289	PASS
69	198	0.00	100	45.3	94995	PASS
70	69	0.00	2	0.4	347	PASS
127	198	10	80	45.5	95459	PASS
197	198	0.00	2	0.5	1028	PASS
198	198	100	100	100.0	209680	PASS
199	198	5	9	6.9	14453	PASS
275	198	10	60	19.0	39760	PASS
365	198	1	100	2.4	5047	PASS
441	443	0.01	100	83.5	19783	PASS
442	198	50	100	60.7	127242	PASS
443	442	15	24	18.6	23684	PASS

Average of 12.198 to 12.216 min.: GBV01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	48	53.05	286	65.00	2025	77.05	107389
36.95	234	54.90	435	66.05	202	78.10	7197
38.00	808	56.00	3303	67.00	59	79.00	5878
39.00	7424	57.00	8693	68.00	1289	80.00	4851
39.95	227	58.00	420	69.00	94995	81.00	7426
41.00	312	59.00	119	70.05	347	82.05	1707
45.00	164	60.10	41	71.10	61	83.15	2066
49.05	776	61.00	1404	73.05	682	85.00	1428
50.00	28409	62.00	1360	74.00	8419	85.95	1577
51.00	122479	63.00	4047	75.00	14491	86.95	661
52.00	6047	63.90	457	76.00	4815	88.00	566

Average of 12.198 to 12.216 min.: GBV01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
88.95	153	100.05	572	109.95	54862	122.05	1496
89.90	56	101.00	4023	110.95	7425	123.05	2352
91.00	1543	102.05	206	112.00	924	123.95	1193
92.05	1527	103.05	1153	113.05	320	125.10	1199
93.00	9816	104.00	2093	114.00	80	125.70	42
94.05	625	105.00	2050	115.00	23	126.10	601
95.00	280	106.05	771	116.00	1538	127.00	95459
96.10	507	107.00	30980	117.00	19717	128.05	6969
97.00	166	108.00	4749	118.05	1499	129.00	35978
98.00	7395	109.00	629	118.95	136	130.00	2936
99.00	5871	109.20	233	120.05	406	130.80	118

Average of 12.198 to 12.216 min.: GBV01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
131.05	729	140.95	4291	151.50	162	161.95	586
132.00	470	142.05	1388	152.05	201	163.00	184
133.05	100	142.95	935	153.00	1332	164.20	78
134.00	1027	144.05	230	154.05	1001	165.00	1573
135.00	2719	144.95	246	155.05	2319	167.10	4023
136.00	1240	146.05	747	156.05	3776	168.05	2944
136.95	681	147.05	2125	157.00	728	169.05	728
137.20	416	148.00	5018	157.95	625	169.95	252
138.00	41	148.95	935	159.00	615	170.60	56
138.20	127	150.00	398	159.95	1372	170.90	63
140.05	258	151.10	593	161.05	2364	171.05	328

Average of 12.198 to 12.216 min.: GBV01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
171.95	790	181.05	2187	191.00	635	201.60	611
173.00	1084	182.05	392	192.00	2216	202.00	41
174.00	1961	183.05	233	193.05	2415	203.05	1328
175.05	3478	184.00	417	194.00	707	204.10	7054
176.00	1255	184.20	157	195.05	612	205.10	10902
177.00	1626	185.00	3332	196.05	5932	206.10	48658
177.70	122	186.10	26216	196.95	1028	207.10	6594
178.00	463	187.05	7136	198.00	209680	208.05	1917
178.20	82	188.00	786	199.00	14453	209.00	571
179.00	6203	189.00	1282	200.00	1162	210.15	418
180.05	4703	190.05	173	201.35	555	211.10	1907

Average of 12.198 to 12.216 min.: GBV01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
212.00	200	222.00	765	232.20	135	243.05	1388
213.00	193	223.05	2928	232.90	135	244.10	20149
215.00	428	224.10	27360	233.95	597	245.10	2608
216.05	1006	225.05	6886	234.90	658	246.05	3494
217.00	12284	226.00	712	236.00	700	246.95	732
218.00	1720	227.00	10737	237.05	761	248.05	142
218.90	47	228.00	1696	238.95	428	249.00	789
219.20	93	229.00	2440	239.90	245	249.80	144
220.05	155	229.95	261	240.10	156	250.10	38
221.05	11517	231.00	986	240.95	572	251.00	206
221.70	701	231.90	82	242.05	1492	251.60	48

Average of 12.198 to 12.216 min.: GBV01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
252.00	317	264.05	197	275.10	39760	289.80	91
253.00	630	265.05	2079	276.05	4922	292.00	39
254.00	683	265.95	334	277.00	3151	292.20	54
255.05	99234	268.85	84	278.00	436	293.00	787
256.05	14608	269.75	93	278.90	85	293.95	240
257.05	987	271.00	55	282.00	42	294.90	97
258.00	5424	271.20	52	283.00	362	295.10	50
258.95	754	271.80	69	283.90	125	296.00	10333
259.90	81	272.15	245	285.00	742	297.00	1668
260.80	50	273.00	2948	286.05	93	297.90	101
261.00	53	274.05	7091	288.90	128	301.05	167

Average of 12.198 to 12.216 min.: GBV01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
301.95	235	323.05	3552	346.90	50	372.05	2035
303.05	1378	324.05	615	351.20	42	373.05	403
304.00	274	326.95	651	352.05	1098	382.95	491
307.95	115	327.95	384	353.10	891	383.95	154
309.85	140	332.05	179	354.00	1269	389.95	275
314.00	582	332.90	123	355.05	178	391.05	243
315.00	1328	333.05	191	359.05	88	402.00	751
315.80	98	334.05	2148	365.05	5047	403.05	1062
316.10	573	335.05	519	366.00	592	403.80	48
321.00	414	341.05	346	369.80	58	403.90	79
322.10	163	346.00	623	371.10	246	404.05	165

Average of 12.198 to 12.216 min.: GBV01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

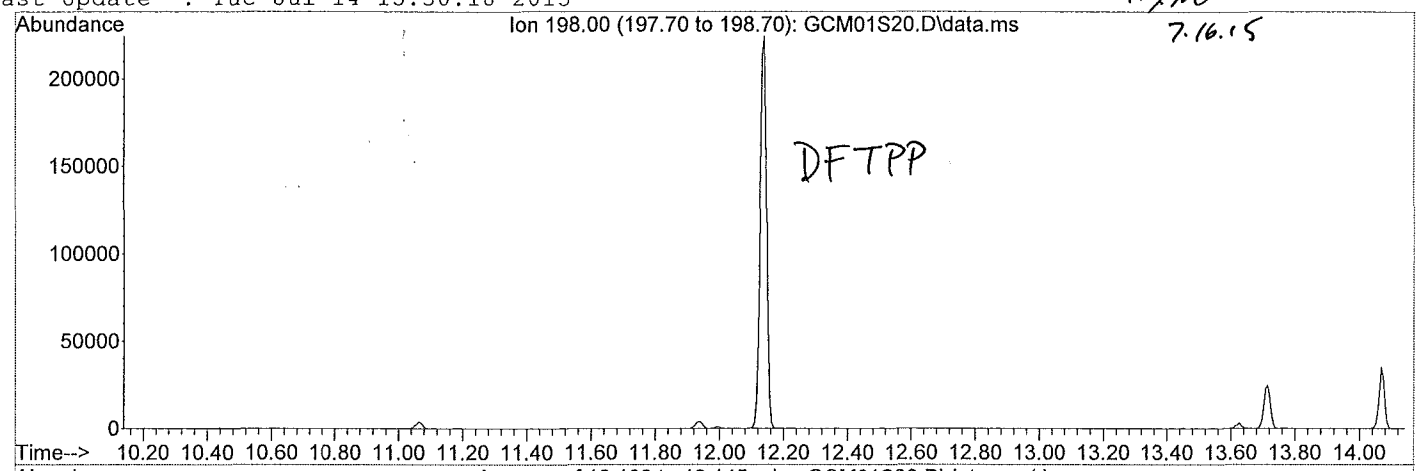
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
420.90	955	434.80	135	444.90	90		
422.00	1008	435.40	48				
423.05	7009	435.65	141				
424.00	1280	436.00	60				
425.05	147	436.90	118				
430.00	43	438.10	66				
432.30	59	438.60	45				
432.60	94	441.05	19783				
433.60	80	442.10	127242				
434.00	40	443.10	23684				
434.20	48	444.05	2251				

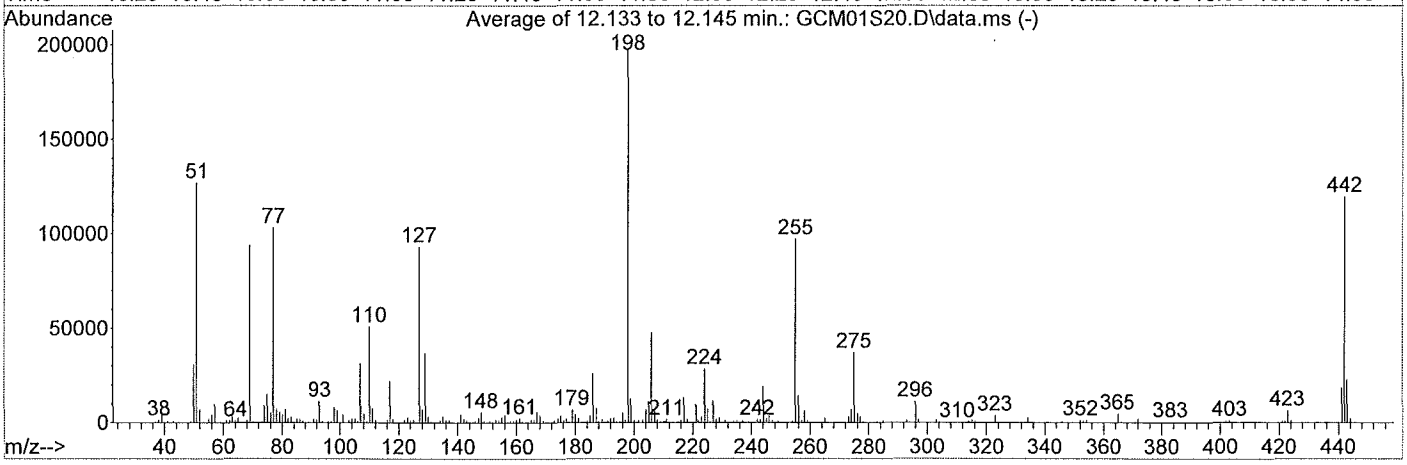
Data Path : R:\G\2015\JUL15\06JUL15PM\
Data File : GCM01S20.D
Acq On : 07/06/2015 14:39
Operator : TJM
Sample : SSTD020GM 28543 DFTPPGM
Inst : 5975-G
Misc : . X07/19/15
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : R:\G\METHODS\GSOM01D6.M
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015

7.16.15





AVERAGE OF SCANS: 1708, 1709, 1710 ; BACKGROUND CORRECTED WITH SCAN 1696.

Spectrum Information: Average of 12.133 to 12.145 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	64.2	126904	PASS
68	69	0.00	2	1.3	1206	PASS
69	198	0.00	100	47.5	93847	PASS
70	69	0.00	2	0.5	514	PASS
127	198	10	80	47.1	93019	PASS
197	198	0.00	2	0.7	1355	PASS
198	198	100	100	100.0	197589	PASS
199	198	5	9	6.5	12797	PASS
275	198	10	60	18.7	37013	PASS
365	198	1	100	2.3	4560	PASS
441	443	0.01	100	80.4	18272	PASS
442	198	50	100	60.5	119525	PASS
443	442	15	24	19.0	22728	PASS

Average of 12.133 to 12.145 min.: GCM01S20.D\data.ms
SSTD020GM 28543 DFTPPGM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	75	50.95	126904	60.90	1155	71.85	171
36.95	313	52.00	6758	62.00	1426	73.00	482
37.95	1302	53.15	293	62.95	3864	73.95	8836
39.05	8412	53.90	50	64.00	781	75.00	14722
39.95	307	54.10	64	65.00	2180	76.10	5139
41.00	614	55.05	1730	65.90	236	77.00	103126
42.00	121	56.00	4098	66.90	298	78.05	7012
43.00	695	57.00	9465	68.00	1206	79.00	5422
44.90	289	58.00	241	69.00	93847	80.00	4203
48.90	730	59.00	277	70.05	514	81.00	7000
50.00	30801	59.90	68	71.05	415	82.00	2061

Average of 12.133 to 12.145 min.: GCM01S20.D\data.ms
SSTD020GM 28543 DFTPPGM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.05	2917	96.00	655	106.95	31241	118.00	1679
83.95	721	97.00	766	108.00	4826	119.00	398
85.00	1758	98.05	7925	109.00	631	119.95	249
86.00	1679	99.00	6220	110.00	50793	120.20	125
87.00	798	99.95	352	111.00	7422	121.00	109
87.95	88	100.95	4067	112.00	1185	122.00	1380
89.00	213	102.05	184	113.00	190	123.00	2548
91.00	1676	103.05	1219	114.05	129	124.00	1097
91.95	1593	104.00	2017	115.05	187	125.00	1321
93.00	11166	105.05	2125	116.05	1364	126.05	573
94.00	665	106.00	977	117.00	21922	127.00	93019

Average of 12.133 to 12.145 min.: GCM01S20.D\data.ms
SSTD020GM 28543 DFTPPGM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
128.00	7155	137.05	1172	148.95	914	159.05	879
129.00	36499	138.00	382	150.10	177	160.00	1359
130.00	2987	140.05	132	151.00	755	161.00	2145
130.90	653	141.00	4333	151.75	417	162.00	668
131.90	100	142.00	1642	152.10	114	163.05	291
132.05	231	143.00	1108	153.00	1399	164.10	300
132.70	70	144.05	375	154.00	1150	165.00	1297
133.05	232	145.00	328	155.05	2681	166.05	1377
133.95	1189	146.00	800	156.10	3888	167.05	5550
135.00	3289	147.05	2399	156.95	762	168.05	3766
136.00	1195	148.00	5322	157.95	744	169.10	853

Average of 12.133 to 12.145 min.: GCM01S20.D\data.ms
SSTD020GM 28543 DFTPPGM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
169.95	334	181.05	2212	190.05	134	201.00	166
170.95	535	181.95	410	191.05	862	201.60	1091
172.00	612	182.70	55	192.00	2021	202.10	65
172.95	1041	183.00	280	193.05	2341	202.95	1408
174.05	1863	184.05	652	194.05	696	204.10	6914
175.05	3352	185.05	3367	195.10	702	205.10	11282
176.05	1022	186.05	25811	196.05	5171	206.10	47571
177.00	1906	187.05	7497	196.95	1355	207.05	6705
177.90	577	188.00	662	198.00	197589	207.95	1507
179.00	6761	189.00	1479	199.00	12797	209.05	469
180.00	4181	189.90	91	200.00	1057	209.95	683

Average of 12.133 to 12.145 min.: GCM01S20.D\data.ms
SSTD020GM 28543 DFTPPGM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
210.50	759	221.05	9320	230.00	227	241.00	580
211.10	1514	221.70	1579	231.00	1185	242.00	1504
211.80	188	222.10	443	232.00	371	243.05	1327
215.00	488	223.00	2976	233.00	192	244.10	18946
215.95	1126	224.10	28272	234.00	732	245.10	2273
217.00	13094	225.05	7066	235.00	793	246.00	3540
218.00	1713	226.05	670	235.90	395	247.00	1065
218.90	99	227.00	11303	236.10	194	247.80	65
219.20	71	228.00	1636	237.00	827	249.05	880
219.80	77	229.00	2442	238.95	465	250.05	135

220.10	148	229.70	90	240.05	389	250.60	86

Average of 12.133 to 12.145 min.: GCM01S20.D\data.ms
SSTD020GM 28543 DFTPPGM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
251.05	383	260.85	140	272.15	251	289.90	117
252.15	355	261.10	81	273.00	3024	290.90	52
252.85	426	263.20	62	274.00	6958	293.05	995
253.10	242	263.80	135	275.00	37013	293.95	221
253.95	772	265.00	2140	276.05	4819	295.10	81
255.05	97008	265.95	294	277.05	3006	296.00	10997
256.05	14047	267.90	53	278.10	571	297.00	1786
257.05	1105	269.95	185	279.00	201	297.80	50
258.00	6089	270.35	139	282.95	450	301.05	216
259.00	905	271.00	358	284.05	371	302.00	94
260.00	58	272.00	168	285.00	802	303.05	1429

Average of 12.133 to 12.145 min.: GCM01S20.D\data.ms
SSTD020GM 28543 DFTPPGM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
304.00	459	326.85	600	353.00	923	382.90	391
307.95	134	327.95	291	354.05	1035	383.10	124
308.90	57	331.95	407	354.90	118	383.70	79
310.10	100	332.90	101	355.10	109	384.10	62
314.00	636	333.10	190	365.00	4560	390.00	96
315.05	1175	334.10	2342	365.95	496	391.00	99
316.05	640	334.90	200	370.00	56	392.00	124
321.10	327	335.10	398	371.00	271	400.90	74
323.05	3613	341.00	406	371.95	1897	402.00	772
324.00	373	345.95	570	372.95	378	403.05	919
324.20	190	352.05	1240	376.90	55	404.00	382

Average of 12.133 to 12.145 min.: GCM01S20.D\data.ms
SSTD020GM 28543 DFTPPGM
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
421.00	918	434.50	63				
422.05	789	435.00	85				
423.00	6319	435.35	198				
424.05	1185	435.80	111				
424.90	76	436.35	207				
425.60	54	437.00	56				
431.80	54	441.10	18272				
432.20	100	442.10	119525				
432.80	171	443.00	22728				
433.30	60	444.05	1988				
434.20	57	445.00	57				

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK83

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 448483

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBC02BLK

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

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.

SBLK83

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 448483

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBC02BLK

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

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.

SBLK83

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 448483

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBC02BLK

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

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		Unknown Propane, 2,2-dimethoxy-	2.12	86.	J
02		Unknown Guanidine	3.57	2000	J
03		Unknown 3-Hexene-2,5-dione	4.35	78.	J
04		Unknown Pentanoic acid, 2,2,4-trimethyl-3-carbox	9.79	110	J
05	629-54-9	Hexadecanamide	14.26	160	JN
06	301-02-0	9-Octadecenamide, (Z)-	15.17	1200	JN
07		Unknown 9-Octadecenamide, (Z)-	15.97	76.	J
08		Unknown 1,5-Hexadiene, 2,5-dipropyl-	16.32	130	J
09		Unknown Phthalic anhydride	18.82	86.	J
10		Unknown [2.2]Paracyclophane	23.68	100	J
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.

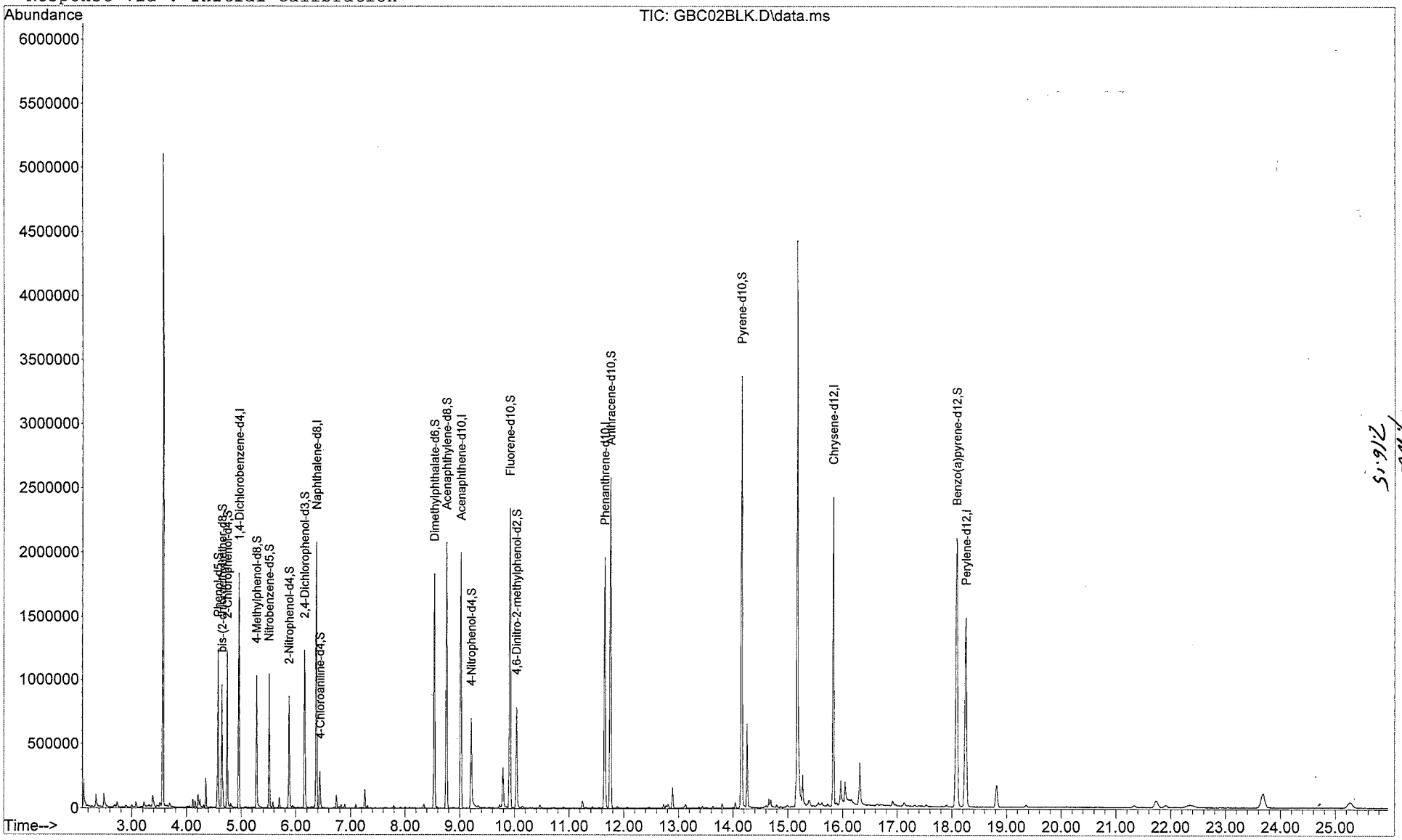
Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC02BLK.D
Acq On : 06/02/2015 12:10
Sample : 448483 SBLK83
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 2
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 14:35:50 2015 Results File: GSOM01D4.RES

Method : R:\G\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 : R:\G\2015\JUN15\02JUN15\GBC02BLK.D Vial: 2
Acq On : 06/02/2015 12:10 Operator: DJC
Sample : 448483 SBLK83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:35:50 2015 Results File: GSOM01D4.RES

Method : R:\G\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	325023	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1208964	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	697110	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1158053	20.00 ug/ml
73) Chrysene-d12	15.83	240	1119440	20.00 ug/ml
81) Perylene-d12	18.26	264	1104777	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	441544	19.481ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	212290	15.297ug/mL
7) 2-Chlorophenol-d4	4.75	132	416134	18.700ug/ml
13) 4-Methylphenol-d8	5.28	113	259049	14.680ug/mL
17) Nitrobenzene-d5	5.51	128	189628	18.695ug/ml
21) 2-Nitrophenol-d4	5.87	143	229947	20.342ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	346569	20.929ug/mL
28) 4-Chloroaniline-d4	6.44	131	130977	7.291ug/mL
42) Dimethylphthalate-d6	8.54	166	1204981	28.422ug/mL
45) Acenaphthylene-d8	8.76	160	1365919	24.142ug/mL
50) 4-Nitrophenol-d4	9.21	143	235641	26.101ug/mL
57) Fluorene-d10	9.92	176	996913	27.073ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	199303	26.201ug/mL
69) Anthracene-d10	11.76	188	1702299	29.059ug/mL
75) Pyrene-d10	14.16	212	1600401	31.447ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1613815	32.204ug/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 : R:\G\2015\JUN15\02JUN15\GBC02BLK.D Vial: 2
Acq On : 06/02/2015 12:10 Operator: DJC
Sample : 448483 SBLK83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:35:50 2015 Results File: GSOM01D4.RES

Method : R:\G\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)

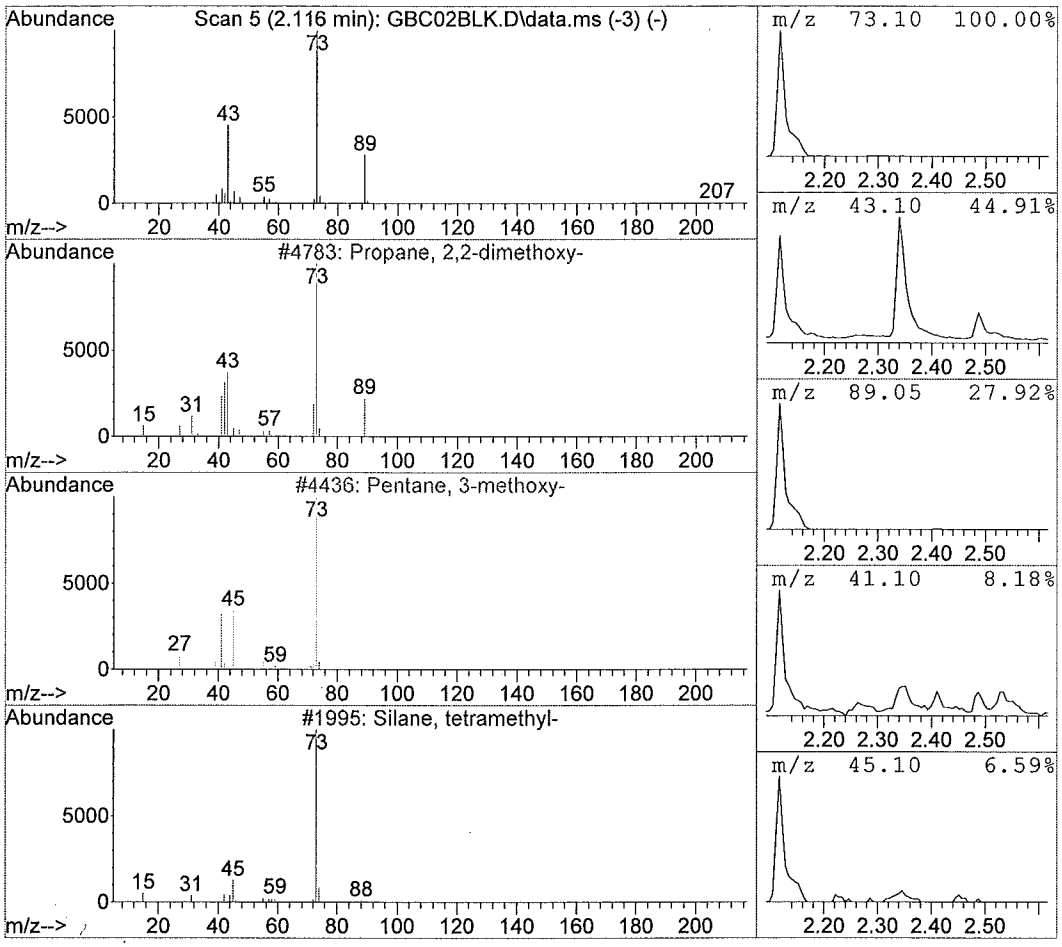
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC02BLK.D Vial: 2
Acq On : 06/02/2015 12:10 Operator: DJC
Sample : 448483 SBLK83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.12	2.58 ug/ml	232315	1,4-Dichlorobenzene-d4	1799468

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 2,2-dimethoxy-	4783	000077-76-9	56.00
2	Pentane, 3-methoxy-	4436	036839-67-5	17.00
3	Silane, tetramethyl-	1995	000075-76-3	9.00
4	Propane, 2-methoxy-2-methyl-	2138	001634-04-4	9.00
5	2-Hydroxy-2-methylbutyric acid	8706	003739-30-8	9.00



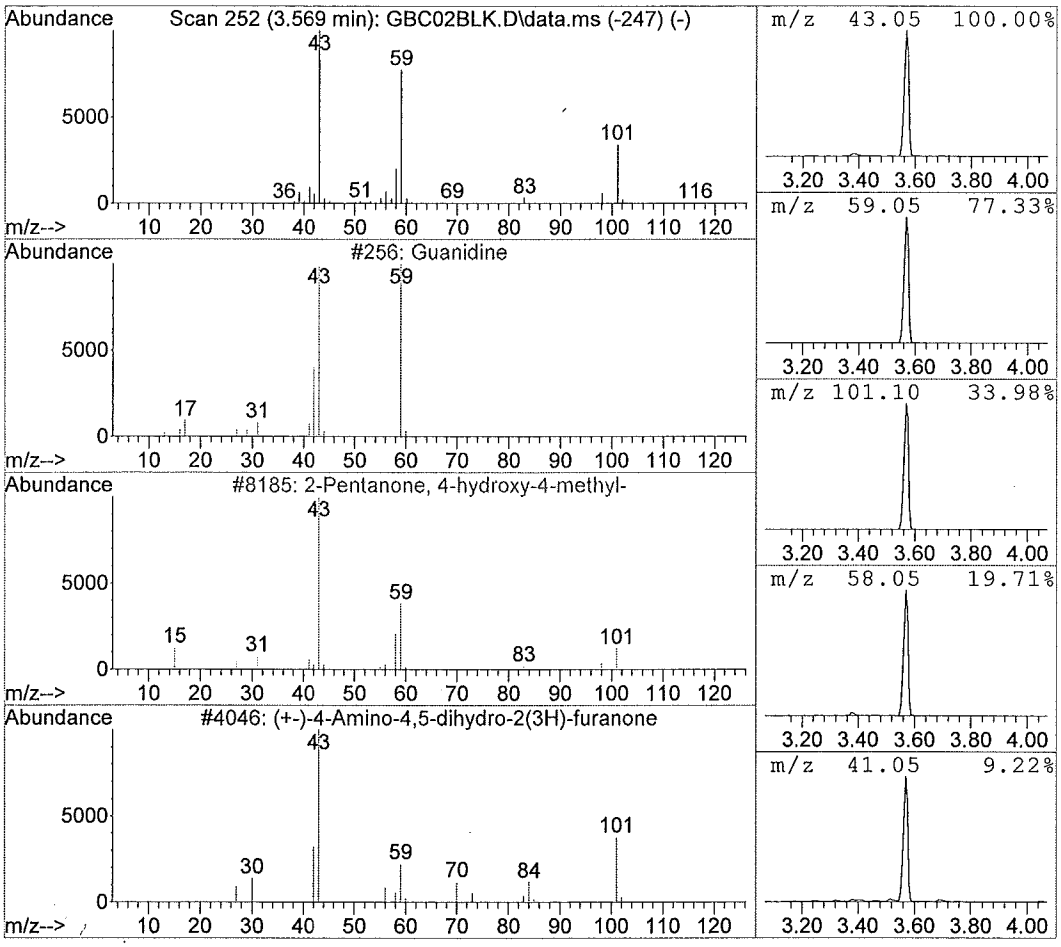
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC02BLK.D Vial: 2
Acq On : 06/02/2015 12:10 Operator: DJC
Sample : 448483 SBLK83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	60.07 ug/ml	5405006	1,4-Dichlorobenzene-d4	1799468

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-	4083	000109-02-4	9.00



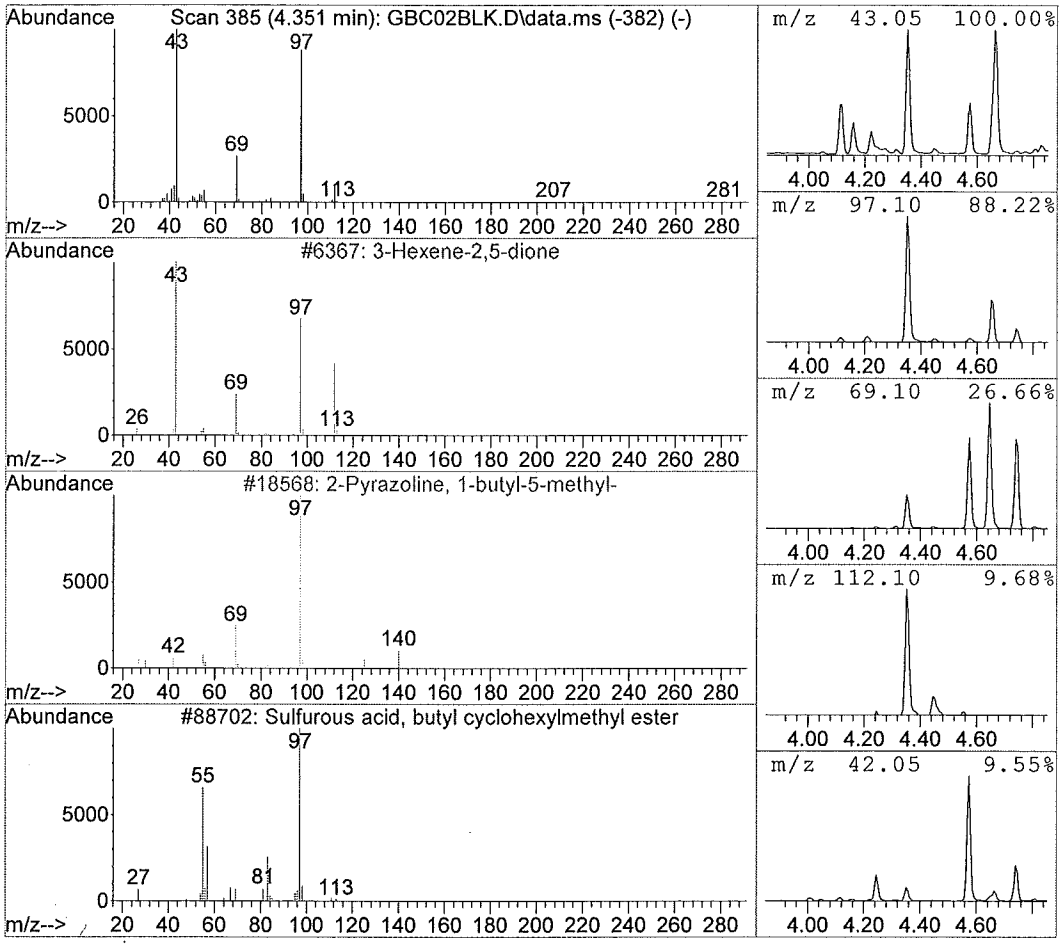
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC02BLK.D Vial: 2
Acq On : 06/02/2015 12:10 Operator: DJC
Sample : 448483 SBLK83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	2.35 ug/ml	211795	1,4-Dichlorobenzene-d4	1799468

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene-2,5-dione	6367	004436-75-3	56.00
2	2-Pyrazoline, 1-butyl-5-methyl-	18568	022581-50-6	36.00
3	Sulfurous acid, butyl cyclohexylmet	88702	1000309-21-4	33.00
4	1,2-Ethanediol, 1,2-di-2-furanyl-	55743	004464-77-1	33.00
5	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	32.00



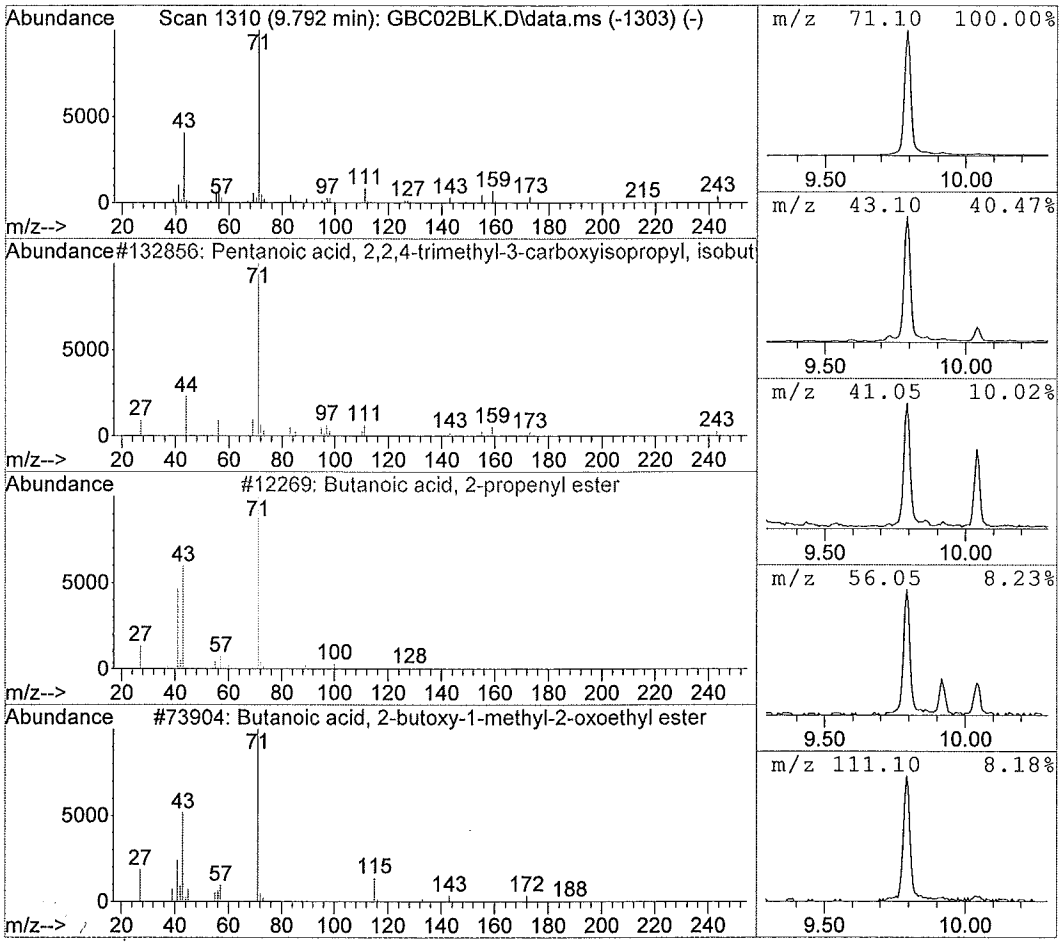
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC02BLK.D Vial: 2
Acq On : 06/02/2015 12:10 Operator: DJC
Sample : 448483 SBLK83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.79	3.29 ug/ml	455355	Acenaphthene-d10	2768665

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentanoic acid, 2,2,4-trimethyl-3-c	132856	1000140-77-5	78.00
2	Butanoic acid, 2-propenyl ester	12269	002051-78-7	53.00
3	Butanoic acid, 2-butoxy-1-methyl-2-	73904	007492-70-8	45.00
4	diethyl 2-hydroxy-3-(tetrahydrofura	110336	1000365-67-1	45.00
5	Butyric acid, thio-, S-decyl ester	97354	002432-55-5	45.00



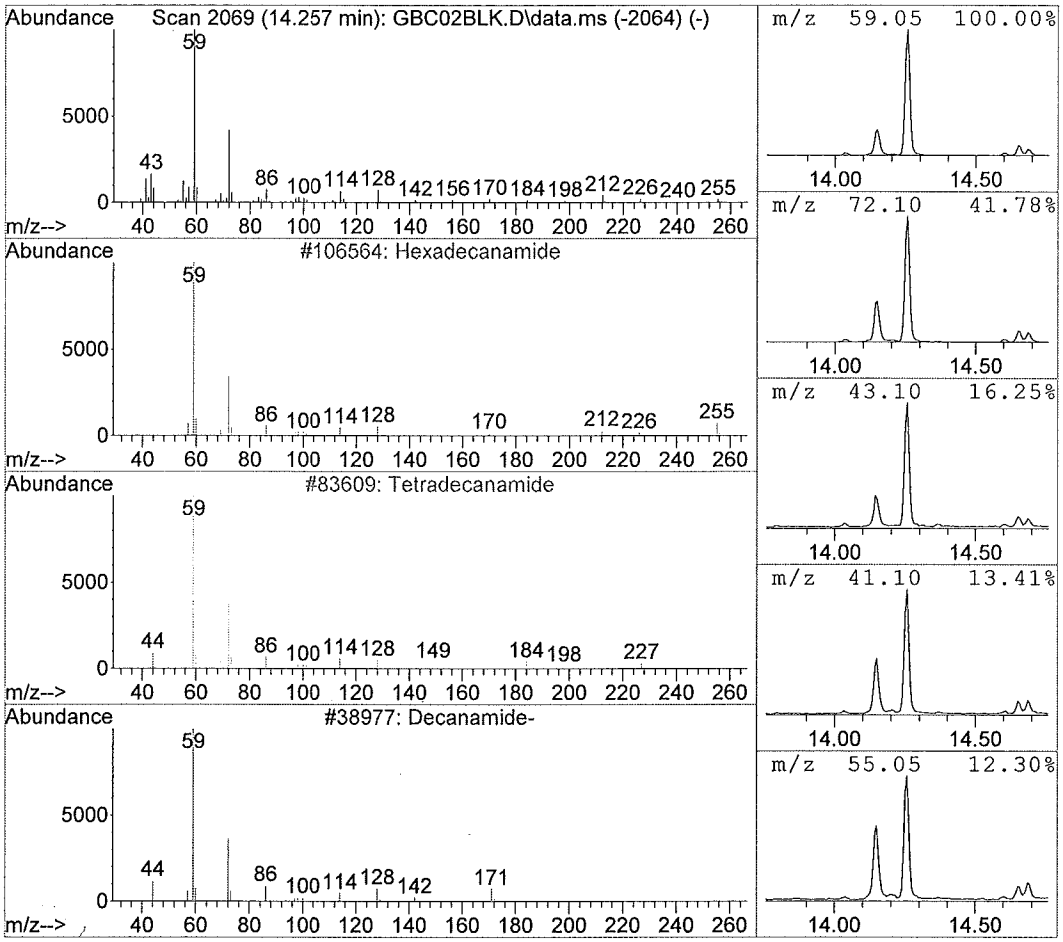
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC02BLK.D Vial: 2
Acq On : 06/02/2015 12:10 Operator: DJC
Sample : 448483 SBLK83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.26	4.74 ug/ml	748582	Chrysene-d12	3159084

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	94.00
2	Tetradecanamide	83609	000638-58-4	86.00
3	Decanamide-	38977	002319-29-1	83.00
4	Dodecanamide	60439	001120-16-7	59.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00



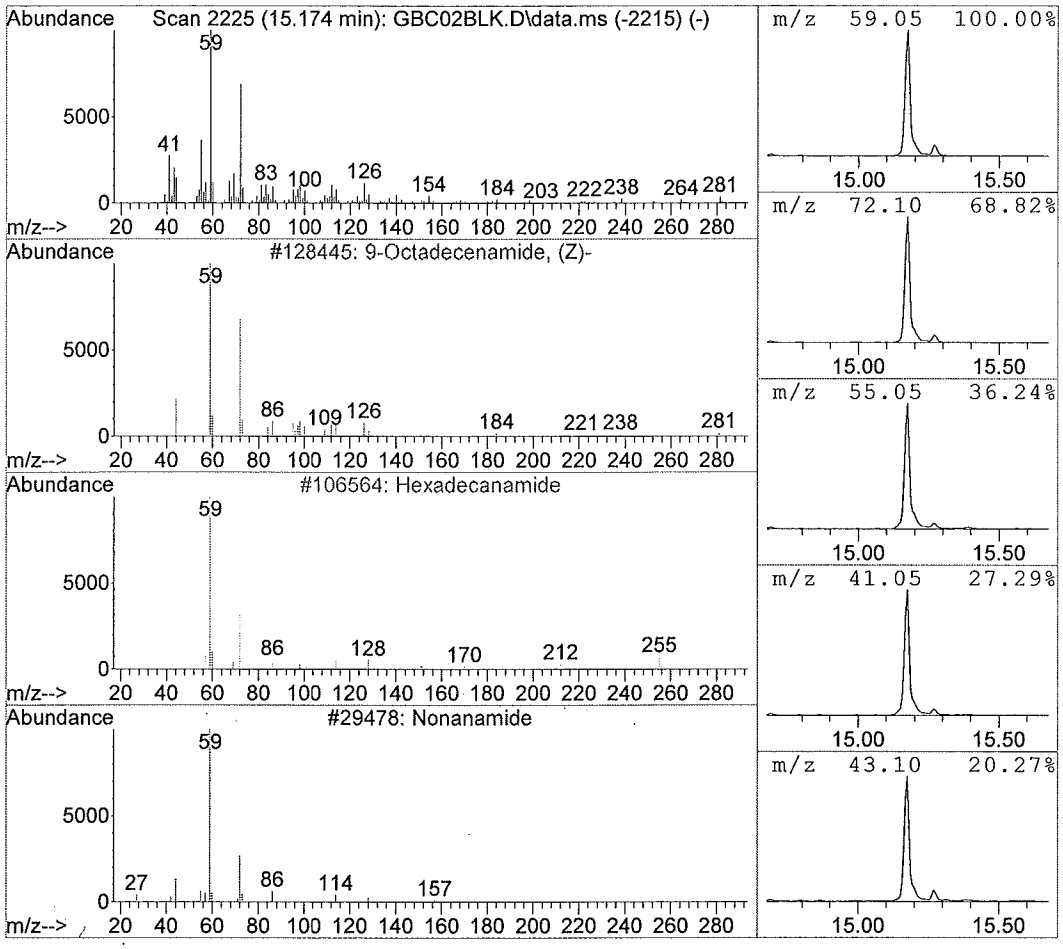
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC02BLK.D Vial: 2
Acq On : 06/02/2015 12:10 Operator: DJC
Sample : 448483 SBLK83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	37.38 ug/ml	5903733	Chrysene-d12	3159084

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	98.00
2	Hexadecanamide	106564	000629-54-9	50.00
3	Nonanamide	29478	001120-07-6	50.00
4	Pentanamide	4064	000626-97-1	50.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	47.00



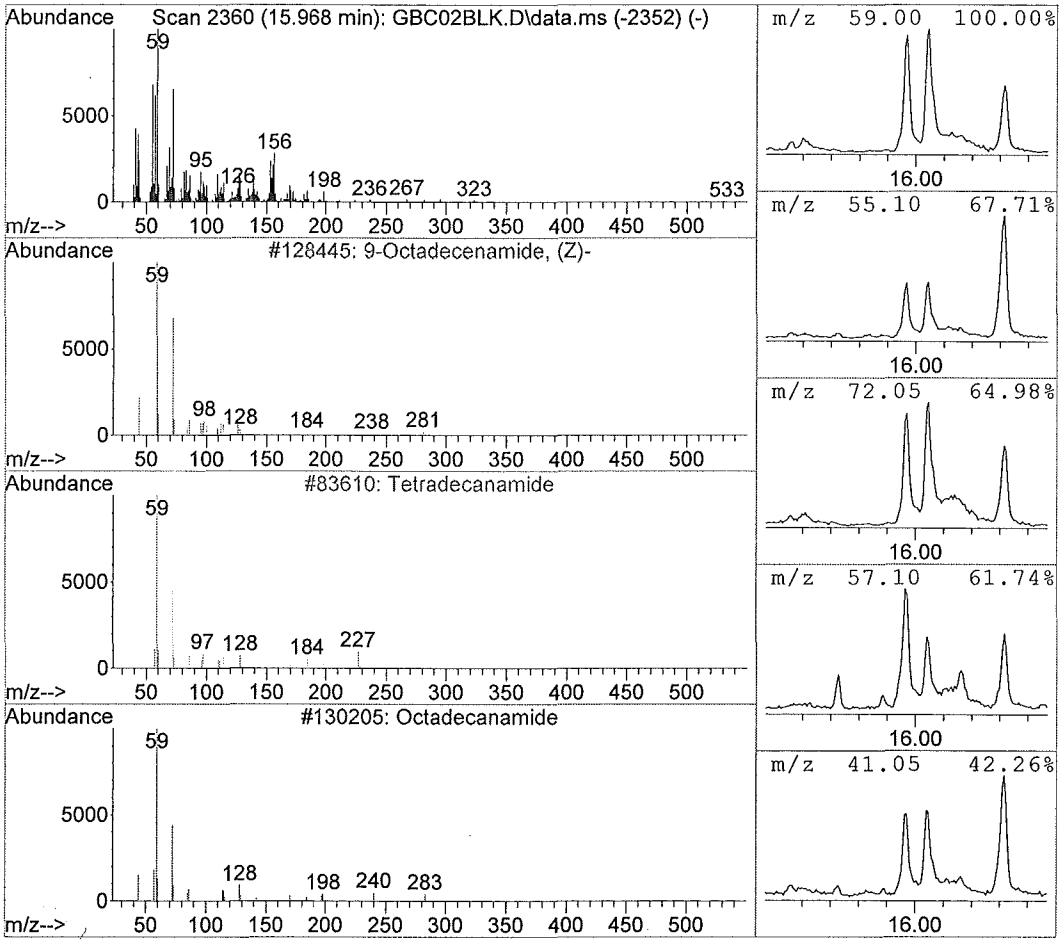
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC02BLK.D Vial: 2
Acq On : 06/02/2015 12:10 Operator: DJC
Sample : 448483 SBLK83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.97	2.27 ug/ml	359328	Chrysene-d12	3159084

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	53.00
2	Tetradecanamide	83610	000638-58-4	50.00
3	Octadecanamide	130205	000124-26-5	50.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	47.00
5	Hexadecanamide	106564	000629-54-9	22.00



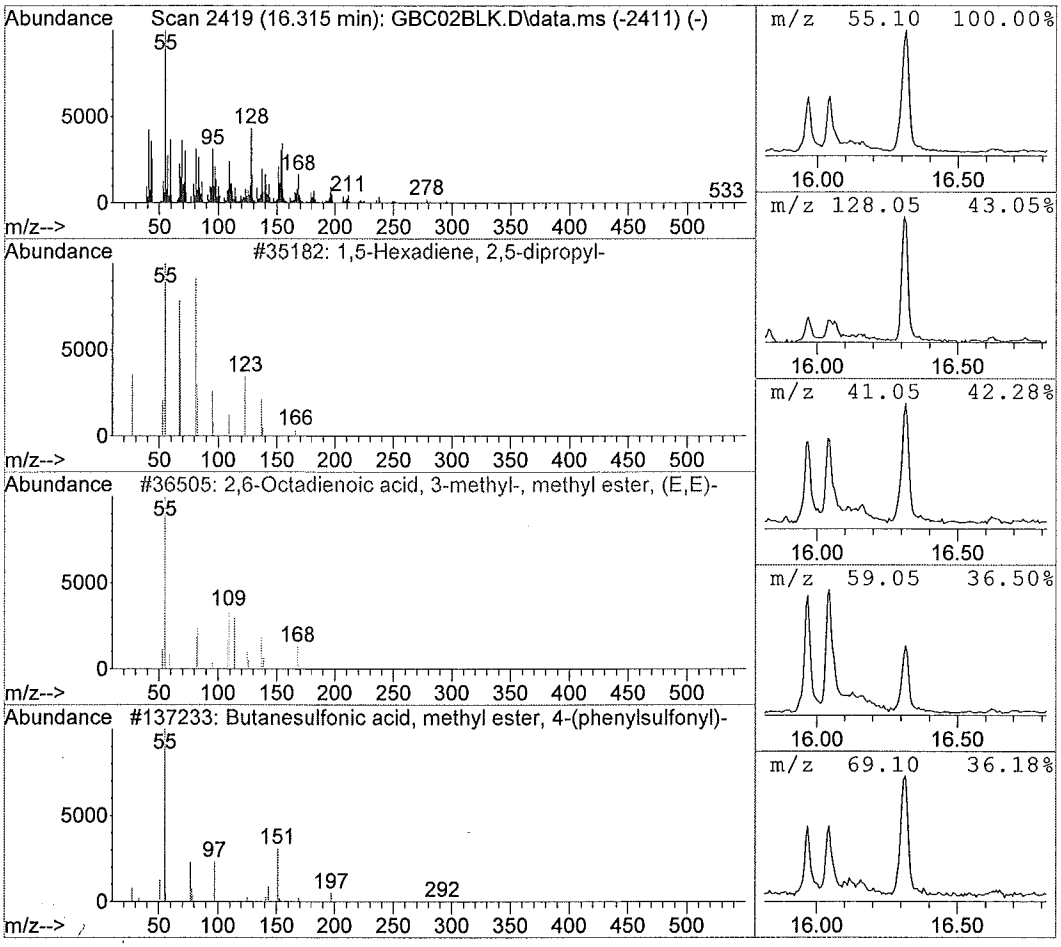
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC02BLK.D Vial: 2
Acq On : 06/02/2015 12:10 Operator: DJC
Sample : 448483 SBLK83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	3.75 ug/ml	592348	Chrysene-d12	3159084

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,5-Hexadiene, 2,5-dipropyl-	35182	1000158-33-4	11.00
2	2,6-Octadienoic acid, 3-methyl-, me	36505	055283-13-1	10.00
3	Butanesulfonic acid, methyl ester,	137233	1000159-83-1	10.00
4	2-(3-Hydroxybutyl)cyclooctanone	59547	110288-21-6	10.00
5	Cyclododecanone, 2-methyl-	58195	016837-94-8	10.00



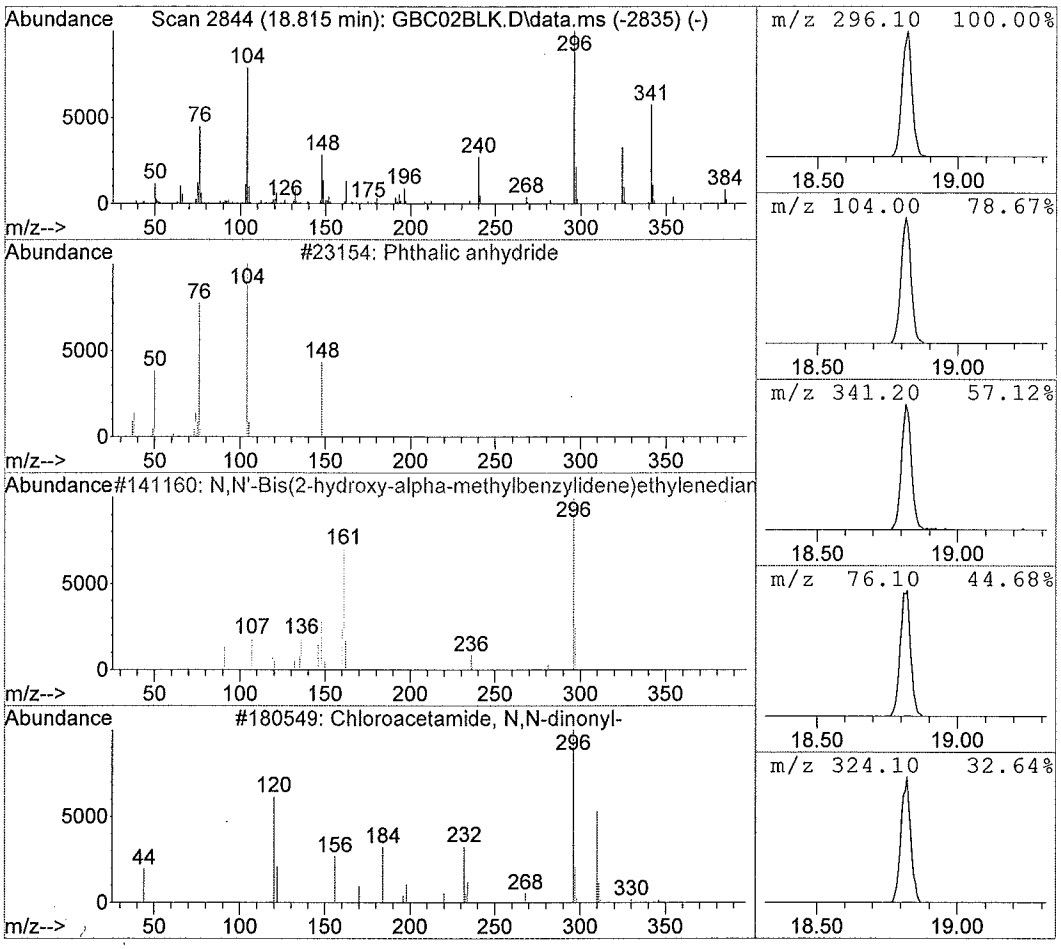
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC02BLK.D Vial: 2
Acq On : 06/02/2015 12:10 Operator: DJC
Sample : 448483 SBLK83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\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	2.58 ug/ml	422818	Perylene-d12	3277502

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23154	000085-44-9	27.00
2	N,N'-Bis(2-hydroxy-alpha-methylbenz	141160	005464-60-8	22.00
3	Chloroacetamide, N,N-dinonyl-	180549	1000308-48-1	18.00
4	Phthalic acid, monoethyl ester	55736	002306-33-4	12.00
5	naphthalen-1-yl(1-pentyl-1H-indol-3	177810	209414-07-3	11.00



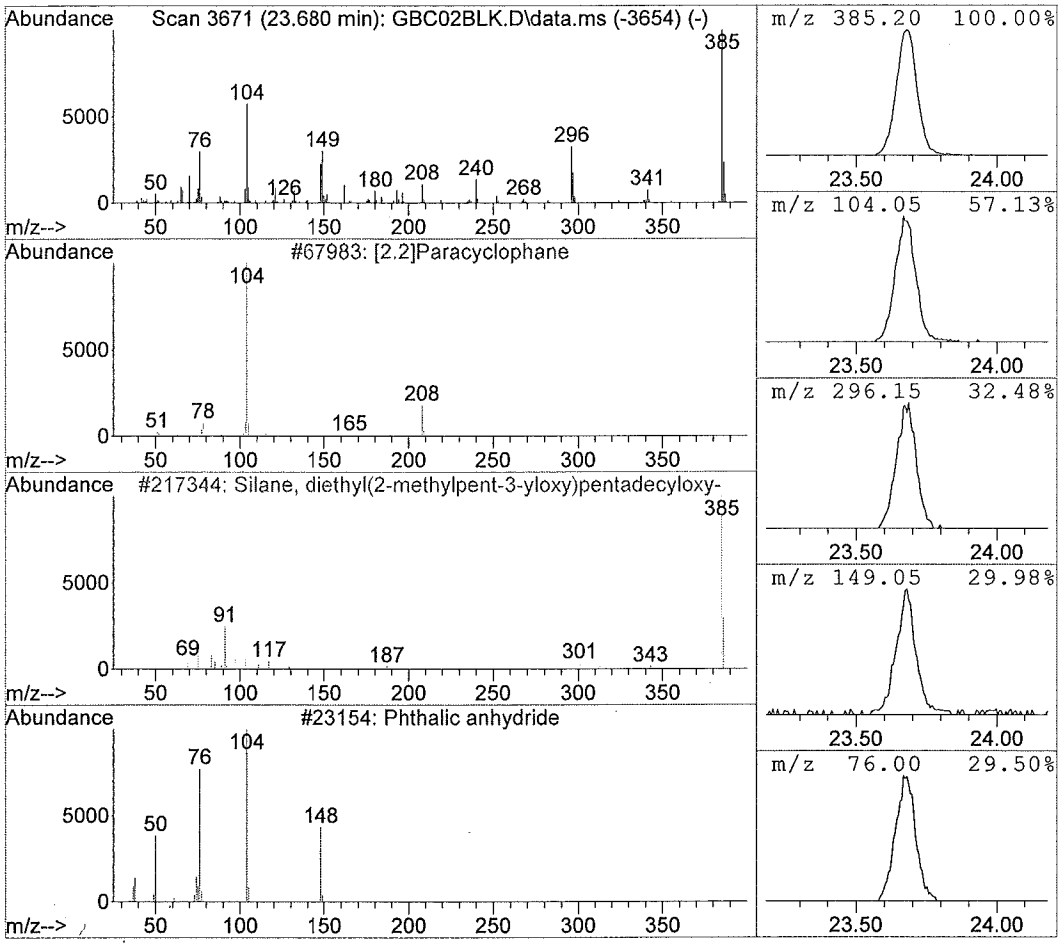
Library Search Compound Report

Data File : R:\G\2015\JUN15\02JUN15\GBC02BLK.D Vial: 2
Acq On : 06/02/2015 12:10 Operator: DJC
Sample : 448483 SBLK83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.68	3.14 ug/ml	513888	Perylene-d12	3277502

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	[2.2]Paracyclophane	67983	001633-22-3	15.00
2	Silane, diethyl(2-methylpent-3-ylox	217344	1000363-78-6	12.00
3	Phthalic anhydride	23154	000085-44-9	10.00
4	4H-1-Benzothiopyran-4-one, 2,3-dihy	58660	019446-96-9	10.00
5	3-Phenylpropionic acid, 2-methoxyet	67552	1000331-05-3	10.00



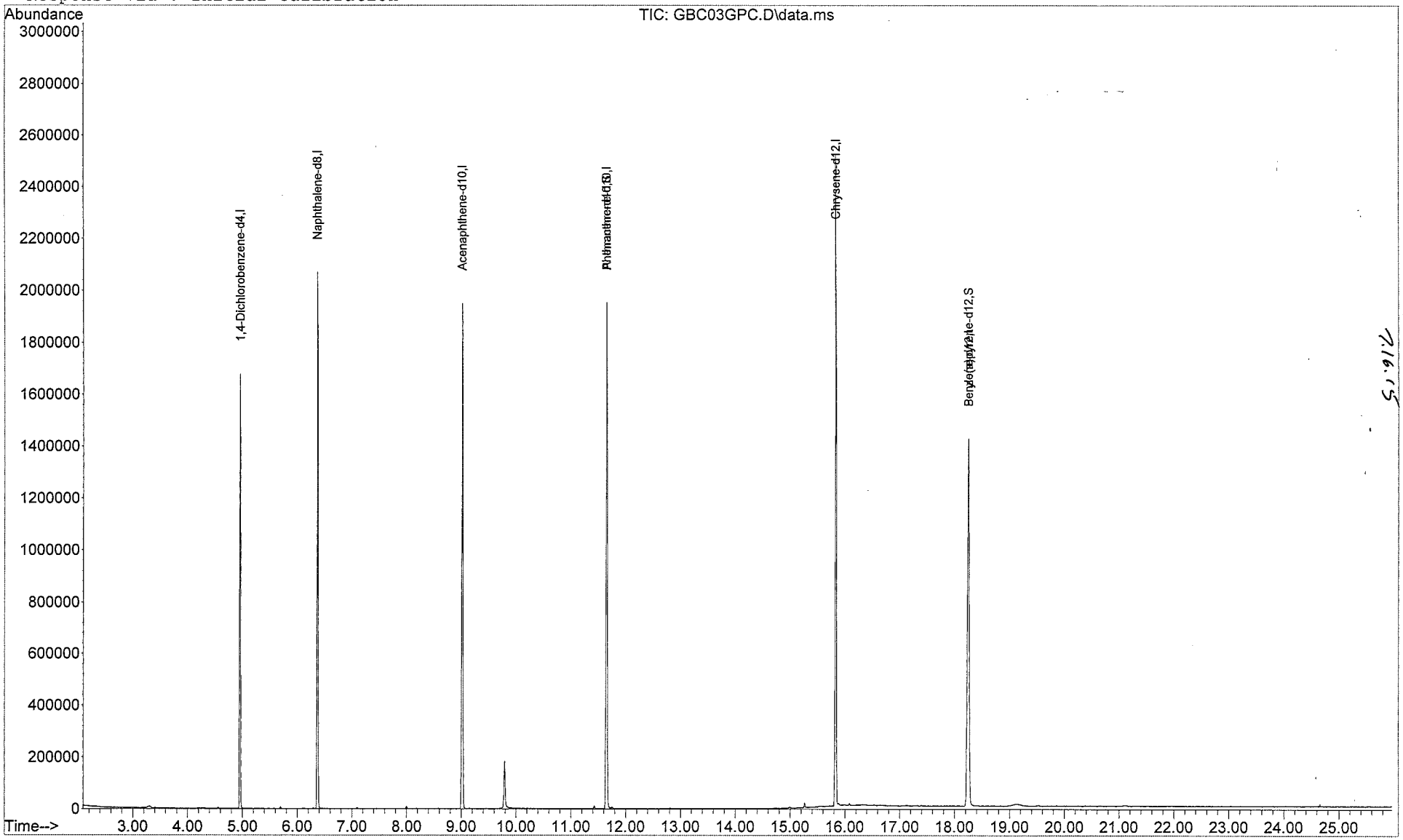
Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC03GPC.D
Acq On : 06/02/2015 12:42
Sample : GPC 7 BLK
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 3
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 02 13:08:48 2015 Results File: GSOM01D4.RES

Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



7.16.15

Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC03GPC.D Vial: 3
Acq On : 06/02/2015 12:42 Operator: DJC
Sample : GPC 7 BLK Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 02 13:08:48 2015 Results File: GSOM01D4.RES

Method : R:\G\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	317380	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1208436	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	698403	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1144974	20.00 ug/ml
73) Chrysene-d12	15.83	240	1117530	20.00 ug/ml
81) Perylene-d12	18.25	264	1098488	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	6.46	131	509	0.028ug/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	9.92	176	235	0.006ug/mL
61) 4,6-Dinitro-2-methylphenol	0.00	200	0	0.000ug/mL
69) Anthracene-d10	11.65	188	1144974	19.769ug/mL
75) Pyrene-d10	0.00	212	0	0.000ug/mL
86) Benzo(a)pyrene-d12	18.25	264	1096819	22.012ug/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)

: 00663

Quantitation Report

Data File : R:\G\2015\JUN15\02JUN15\GBC03GPC.D Vial: 3
Acq On : 06/02/2015 12:42 Operator: DJC
Sample : GPC 7 BLK Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 02 13:08:48 2015 Results File: GSOM01D4.RES

Method : R:\G\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.: F9L58

	EPA SAMPLE NO.	SDMC17 (FLN) #	SDMC18 (2MN) #	TOT OUT
01	F9L58	0 D	0 D	0
02	F9L59	104	85	0
03	F9L60	107	87	0
04	F9L61	84	72	0
05	F9L62	92	85	0
06	F9L63	98	78	0
07	F9L64	80	70	0
08	F9L65	83	75	0
09	F9L66	80	67	0
10	F9L67	79	65	0
11	F9L68	71	65	0
12	F9L69	60	54	0
13	F9L70	69	59	0
14	F9L71	67	54	0
15	F9L72	87	79	0
16	F9L73	94	74	0
17	F9L75	84	77	0
18	F9L77	115	96	0
19	F9L78	97	92	0
20	F9L79	118	103	0
21	SBLK83	82	56	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.

SBLK83

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab File ID: DFW03BLK Lab Sample ID: 448483

Instrument ID: 5975-D Date Extracted: 05/28/2015

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

Time Analyzed: 15:20 Extraction: (Type) SONC GPC Cleanup: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	F9L58	1514293001	DFW05F01	06/08/2015
02	F9L59	1514293002	DFN07F02	07/16/2015
03	F9L60	1514293003	DFW07F03	06/08/2015
04	F9L61	1514293004	DFW08F04	06/08/2015
05	F9L62	1514293005	DFW09F05	06/08/2015
06	F9L63	1514293006	DFN08F06	07/16/2015
07	F9L64	1514293007	DFW11F07	06/08/2015
08	F9L65	1514293008	DFW12F08	06/08/2015
09	F9L66	1514293009	DFW13F09	06/08/2015
10	F9L67	1514293012	DFN09F12	07/16/2015
11	F9L68	1514293013	DFW15F13	06/08/2015
12	F9L69	1514293014	DFW16F14	06/08/2015
13	F9L70	1514293015	DFN10F15	07/16/2015
14	F9L71	1514293016	DFW18F16	06/08/2015
15	F9L72	1514293017	DFW19F17	06/08/2015
16	F9L73	1514293018	DFW24F18	06/09/2015
17	F9L75	1514293019	DFW25F19	06/09/2015
18	F9L77	1514293020	DFW26F20	06/09/2015
19	F9L78	1514293021	DFW27F21	06/09/2015
20	F9L79	1514293022	DFW28F22	06/09/2015
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.: F9L58

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.

SSTD0.4DW

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab File ID: DFW02SP4 DFTPP Injection Date: 06/08/2015

Instrument ID: 5975-D DFTPP Injection Time: 14:36

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	SSTD0.4DW	SSTD0.4DW	DFW02SP4	06/08/2015	14:36
02	SBLK83	448483	DFW03BLK	06/08/2015	15:20
03	F9L58	1514293001	DFW05F01	06/08/2015	16:23
04	F9L60	1514293003	DFW07F03	06/08/2015	17:24
05	F9L61	1514293004	DFW08F04	06/08/2015	17:54
06	F9L62	1514293005	DFW09F05	06/08/2015	18:24
07	F9L64	1514293007	DFW11F07	06/08/2015	19:24
08	F9L65	1514293008	DFW12F08	06/08/2015	19:54
09	F9L66	1514293009	DFW13F09	06/08/2015	20:24
10	F9L68	1514293013	DFW15F13	06/08/2015	21:23
11	F9L69	1514293014	DFW16F14	06/08/2015	21:53
12	F9L71	1514293016	DFW18F16	06/08/2015	22:52
13	F9L72	1514293017	DFW19F17	06/08/2015	23:22
14	SSTD0.4W1	SSTD0.4W1	DFW20SP4	06/08/2015	23:52
15					
16					
17					
18					
19					
20					
21					

5B - FORM V SV
SEMIVOLATILE ORGANIC SIM INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.: SSTD0.4W1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab File ID: DFW20SP4 DFTPP Injection Date: 06/08/2015

Instrument ID: 5975-D DFTPP Injection Time: 23:52

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	SSTD0.4W1	SSTD0.4W1	DFW20SP4	06/08/2015	23:52
02	F9L73	1514293018	DFW24F18	06/09/2015	01:20
03	F9L75	1514293019	DFW25F19	06/09/2015	01:50
04	F9L77	1514293020	DFW26F20	06/09/2015	02:19
05	F9L78	1514293021	DFW27F21	06/09/2015	02:49
06	F9L79	1514293022	DFW28F22	06/09/2015	03:18
07	SSTD0.4W2	SSTD0.4W2	DFW29SP4	06/09/2015	03:48
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.

SSTD0.4DN

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab File ID: DFN01SP4 DFTPP Injection Date: 07/16/2015

Instrument ID: 5975-D DFTPP Injection Time: 08:42

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	SSTD0.4DN	SSTD0.4DN	DFN01SP4	07/16/2015	08:42
02	F9L59	1514293002	DFN07F02	07/16/2015	11:16
03	F9L63	1514293006	DFN08F06	07/16/2015	11:46
04	F9L67	1514293012	DFN09F12	07/16/2015	12:17
05	F9L70	1514293015	DFN10F15	07/16/2015	12:47
06	SSTD0.4N1	SSTD0.4N1	DFN11SP4	07/16/2015	13:17
07					
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.: F9L58

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4DW Date Analyzed: 06/08/2015

Lab File ID (Standard): DFW02SP4 Time Analyzed: 14:36

Instrument ID: 5975-D

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD			255654	6.07	164783	8.73
	UPPER LIMIT			511308	6.57	329566	9.23
	LOWER LIMIT			127827	5.57	82392	8.23
	EPA SAMPLE NO.						
01	SBLK83			235007	6.07	165935	8.73
02	F9L58			222937	6.07	138736	8.73
03	F9L60			198011	6.07	144369	8.72
04	F9L61			234746	6.06	166759	8.72
05	F9L62			228775	6.06	164234	8.72
06	F9L64			205245	6.06	145613	8.72
07	F9L65			231617	6.07	164962	8.72
08	F9L66			223753	6.06	156994	8.72
09	F9L68			228688	6.06	159480	8.72
10	F9L69			231993	6.06	159934	8.72
11	F9L71			223849	6.06	152977	8.72
12	F9L72			206483	6.06	146625	8.72
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.: F9L58

EPA Sample No.(SSTD0.4##): SSTD0.4DW Date Analyzed: 06/08/2015

Lab File ID (Standard): DFW02SP4 Time Analyzed: 14:36

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	293343	11.36	329128	15.52	309275	18.02
	UPPER LIMIT	586686	11.86	658256	16.02	618550	18.52
	LOWER LIMIT	146672	10.86	164564	15.02	154638	17.52
	EPA SAMPLE NO.						
01	SBLK83	283214	11.36	301402	15.52	314083	18.02
02	F9L58	244671	11.36	266718	15.51	257027	18.01
03	F9L60	236634	11.36	249554	15.51	267360	18.01
04	F9L61	283417	11.36	293650	15.51	309007	18.00
05	F9L62	290049	11.36	279640	15.51	301654	18.01
06	F9L64	259836	11.36	254327	15.51	265379	18.01
07	F9L65	285473	11.36	287711	15.51	299605	18.01
08	F9L66	266266	11.36	273028	15.51	295476	18.01
09	F9L68	272272	11.36	281631	15.51	297904	18.01
10	F9L69	272412	11.36	298204	15.51	314129	18.00
11	F9L71	258487	11.36	263922	15.51	296220	18.01
12	F9L72	240091	11.36	247473	15.51	263911	18.00
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.

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.: F9L58

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4W1 Date Analyzed: 06/08/2015

Lab File ID (Standard): DFW20SP4 Time Analyzed: 23:52

Instrument ID: 5975-D

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD					234657		6.06		148025		8.72	
	UPPER LIMIT					469314		6.56		296050		9.22	
	LOWER LIMIT					117329		5.56		74013		8.22	
	EPA SAMPLE NO.												
01	F9L73					188322		6.06		132837		8.72	
02	F9L75					230562		6.06		163032		8.72	
03	F9L77					187311		6.06		137367		8.72	
04	F9L78					195645		6.06		140589		8.72	
05	F9L79					185085		6.06		136512		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.: F9L58

EPA Sample No.(SSTD0.4##): SSTD0.4W1 Date Analyzed: 06/08/2015

Lab File ID (Standard): DFW20SP4 Time Analyzed: 23:52

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	267450	11.36	298211	15.51	287556	18.00
	UPPER LIMIT	534900	11.86	596422	16.01	575112	18.50
	LOWER LIMIT	133725	10.86	149106	15.01	143778	17.50
	EPA SAMPLE NO.						
01	F9L73	215212	11.36	227206	15.51	248517	18.00
02	F9L75	272824	11.36	278600	15.51	296946	18.00
03	F9L77	223287	11.36	230422	15.51	251094	18.00
04	F9L78	235774	11.36	235801	15.51	256400	18.00
05	F9L79	221683	11.36	227133	15.51	249901	18.01
06							
07							
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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.: F9L58

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4DN Date Analyzed: 07/16/2015

Lab File ID (Standard): DFN01SP4 Time Analyzed: 08:42

Instrument ID: 5975-D

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD			180871	5.77	113995	8.38
	UPPER LIMIT			361742	6.27	227990	8.88
	LOWER LIMIT			90436	5.27	56998	7.88
	EPA SAMPLE NO.						
01	F9L59			161414	5.78	118042	8.38
02	F9L63			159140	5.78	114437	8.38
03	F9L67			150958	5.78	105867	8.38
04	F9L70			159502	5.78	111622	8.38
05							
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.: F9L58

EPA Sample No.(SSTD0.4##): SSTD0.4DN Date Analyzed: 07/16/2015

Lab File ID (Standard): DFN01SP4 Time Analyzed: 08:42

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	202322	10.99	221121	15.21	214488	17.46
	UPPER LIMIT	404644	11.49	442242	15.71	428976	17.96
	LOWER LIMIT	101161	10.49	110561	14.71	107244	16.96
	EPA SAMPLE NO.						
01	F9L59	190706	11.00	214229	15.21	251492	17.48
02	F9L63	185828	10.99	204516	15.21	225379	17.48
03	F9L67	174729	10.99	198839	15.21	219866	17.48
04	F9L70	183367	10.99	207038	15.21	240389	17.47
05							
06							
07							
08							
09							
10							
11							
12							
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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.

1F - FORM I SV-SIM -
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L58

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293001

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DFW05F01

Extraction: (Type) SONC

% Moisture: 17. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/08/2015

GPC Cleanup: (Y/N) Y pH: 6.5 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	43.	J
86-73-7	Fluorene	27.	J
87-86-5	Pentachlorophenol	240	U
85-01-8	Phenanthrene	540	
120-12-7	Anthracene	94.	J
206-44-0	Fluoranthene	800	
129-00-0	Pyrene	640	
56-55-3	Benzo(a)anthracene	320	
218-01-9	Chrysene	290	
205-99-2	Benzo(b)fluoranthene	260	
207-08-9	Benzo(k)fluoranthene	80.	J
50-32-8	Benzo(a)pyrene	170	
193-39-5	Indeno(1,2,3-cd)pyrene	140	
53-70-3	Dibenzo(a,h)anthracene	29.	J
191-24-2	Benzo(g,h,i)perylene	87.	J

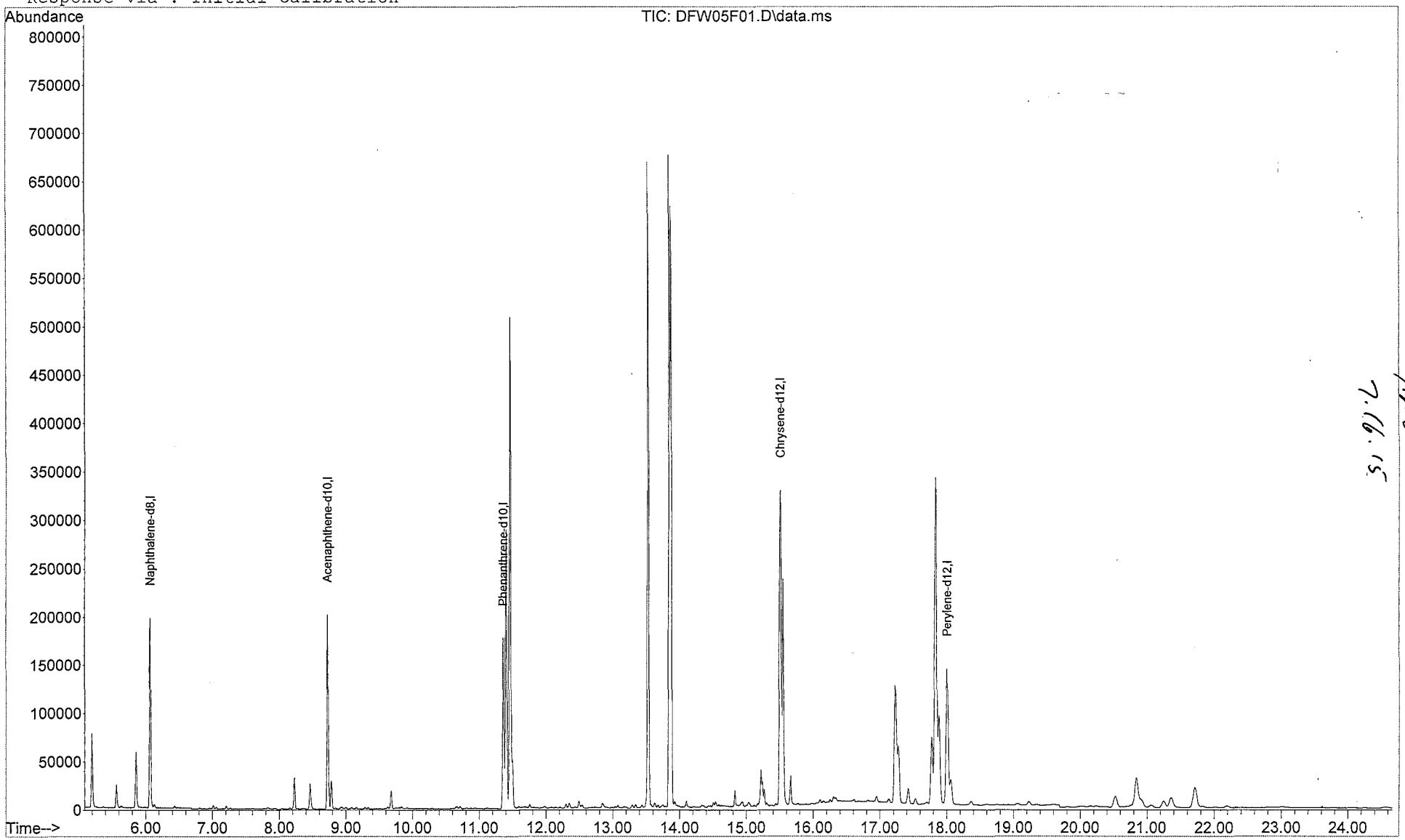
Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW05F01.D
Acq On : 06/08/2015 16:23
Sample : 1514293001 F9L58 (30)
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 4
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 14:51:15 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 Jul 15 14:52:03 2015
Response via : Initial Calibration



7.16.15

Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW05F01.D Vial: 4
Acq On : 06/08/2015 16:23 Operator: DJC
Sample : 1514293001 F9L58 (30) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:51:15 2015 Results File: DSOM_SIMJ2.RES

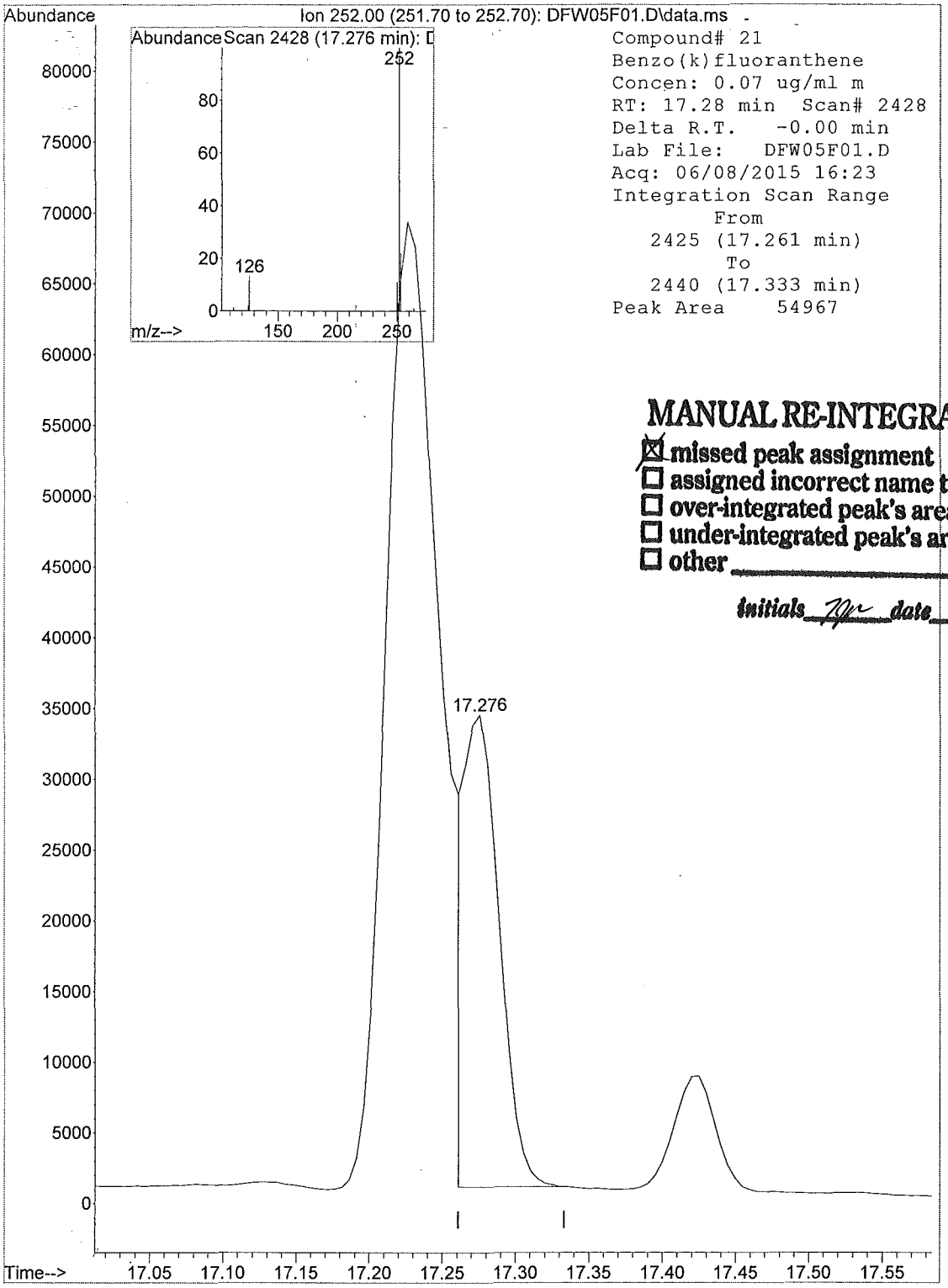
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.07	136	222937	0.40 ug/ml
5) Acenaphthene-d10	8.73	164	138736	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	244671	0.40 ug/ml
15) Chrysene-d12	15.51	240	266718	0.40 ug/ml
19) Perylene-d12	18.01	264	257027	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	3813	0.011ug/mL
13) Fluoranthene-d10	13.50	212	8417	0.013ug/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	8.78	153	13775	0.035ug/ml	99
8) Fluorene	9.68	166	9947	0.022ug/ml	99
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.40	178	315513	0.448ug/ml	98
12) Anthracene	11.50	178	53405	0.078ug/ml	96
14) Fluoranthene	13.53	202	531584	0.663ug/ml	88
16) Pyrene	13.87	202	446114	0.533ug/ml	90
17) Benzo(a)anthracene	15.50	228	186864	0.263ug/ml	98
18) Chrysene	15.55	228	179398	0.239ug/ml	95
20) Benzo(b)fluoranthene	17.23	252	174115	0.217ug/ml	100
21) Benzo(k)fluoranthene	17.28	252	54967	0.066ug/ml m	99 7.16.15
22) Benzo(a)pyrene	17.88	252	108575	0.142ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.84	276	76099	0.114ug/ml	100
24) Dibenzo(a,h)anthracene	20.90	278	17828	0.024ug/ml	99
25) Benzo(g,h,i)perylene	21.71	276	54765	0.073ug/ml	71

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

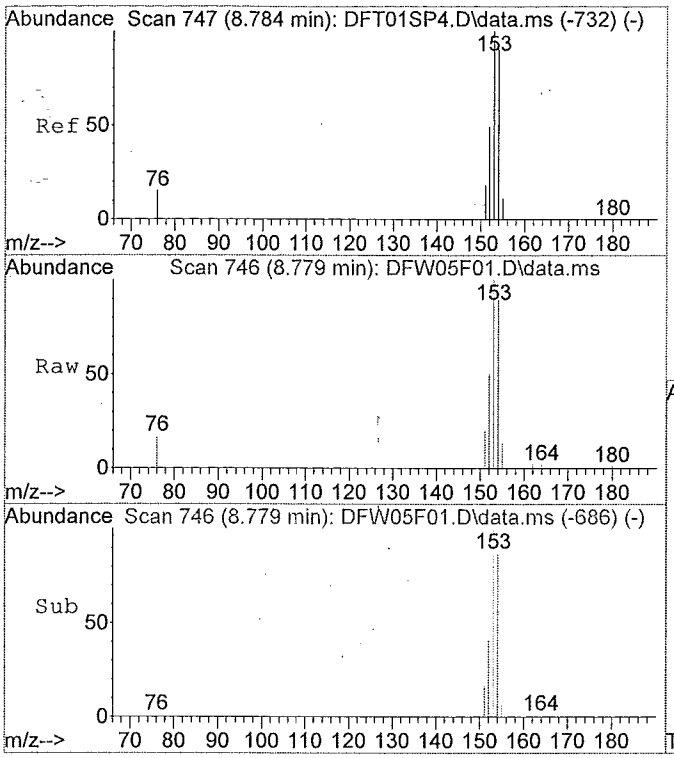
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

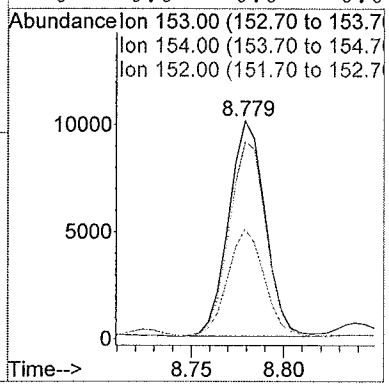
initials TM *date* 7.16.15

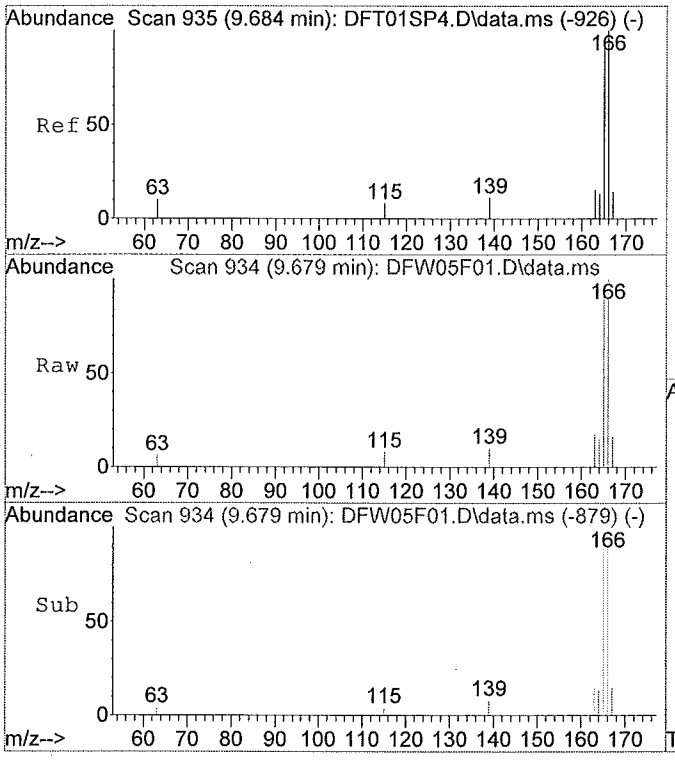


#7
Acenaphthene
Concen: 0.04 ug/ml
RT: 8.78 min Scan# 746
Delta R.T. -0.00 min
Lab File: DFW05F01.D
Acq: 06/08/2015 16:23

Tgt Ion:153 Resp: 13775

Ion	Ratio	Lower	Upper
153	100		
154	92.0	65.1	120.9
152	49.6	35.2	65.4
0	0.0	0.0	0.0

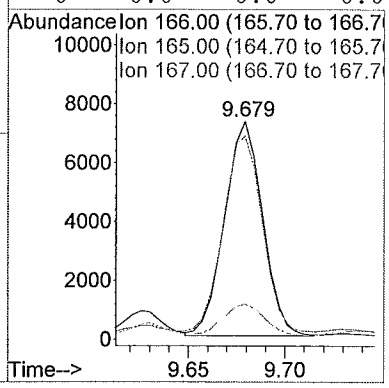


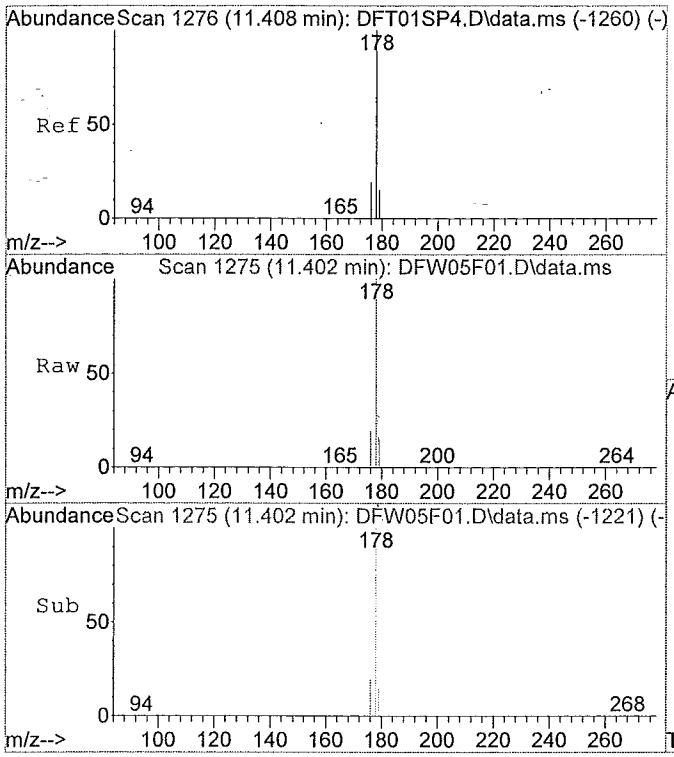


#8
Fluorene
Concen: 0.02 ug/ml
RT: 9.68 min Scan# 934
Delta R.T. 0.00 min
Lab File: DFW05F01.D
Acq: 06/08/2015 16:23

Tgt Ion:166 Resp: 9947

Ion	Ratio	Lower	Upper
166	100		
165	93.9	66.3	123.1
167	15.7	0.0	0.0#
0	0.0	0.0	0.0

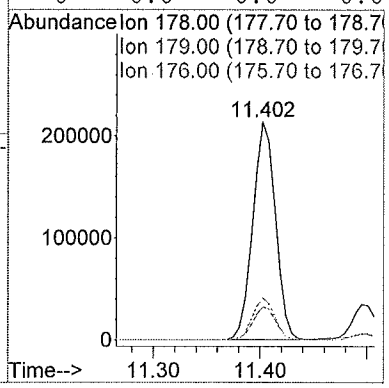


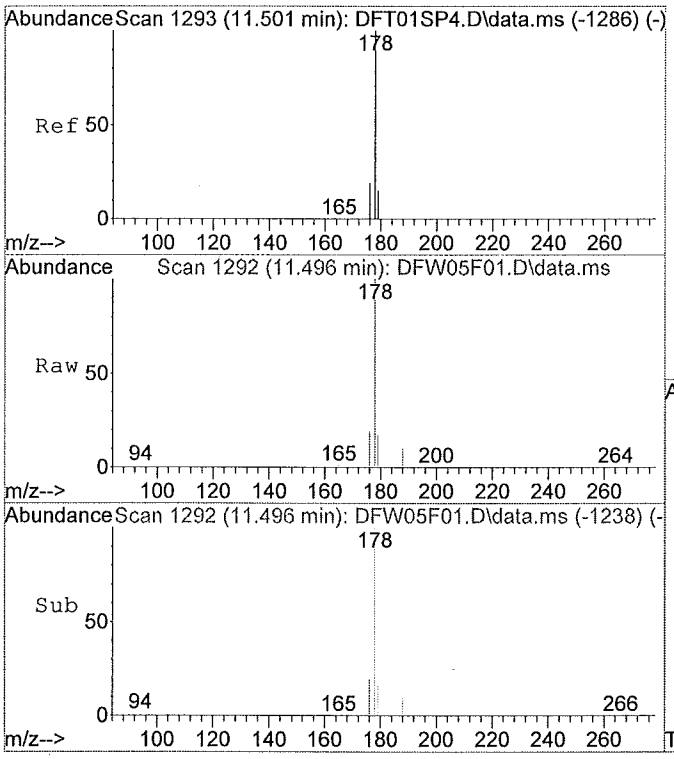


#11
Phenanthrene
Concen: 0.45 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFW05F01.D
Acq: 06/08/2015 16:23

Tgt Ion:178 Resp: 315513

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

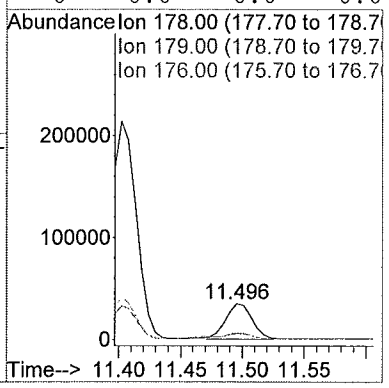


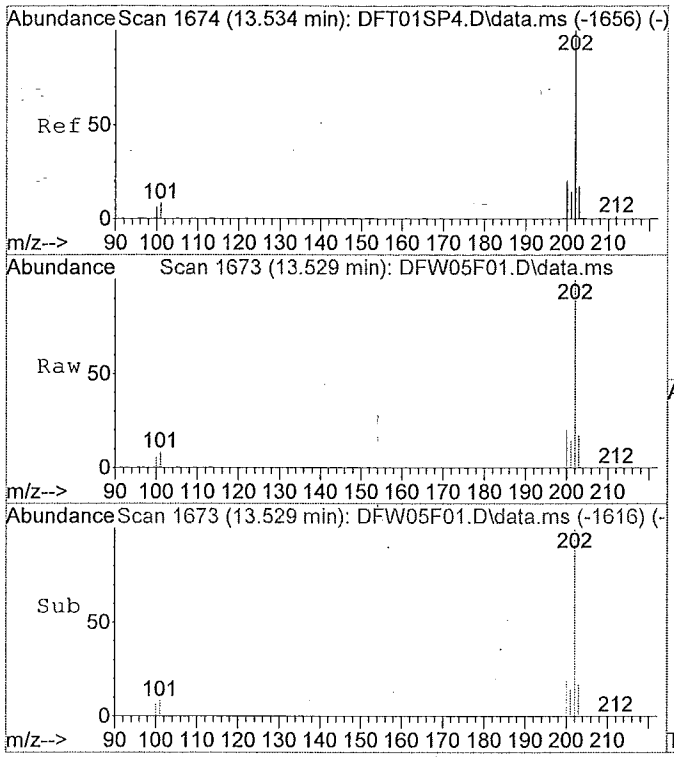


#12
Anthracene
Concen: 0.08 ug/ml
RT: 11.50 min Scan# 1292
Delta R.T. -0.01 min
Lab File: DFW05F01.D
Acq: 06/08/2015 16:23

Tgt Ion:178 Resp: 53405

Ion	Ratio	Lower	Upper
178	100		
179	14.6	11.6	21.6
176	18.1	13.9	25.7
0	0.0	0.0	0.0

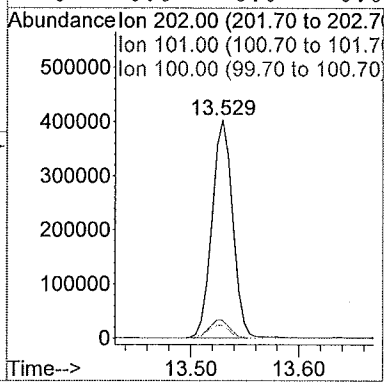


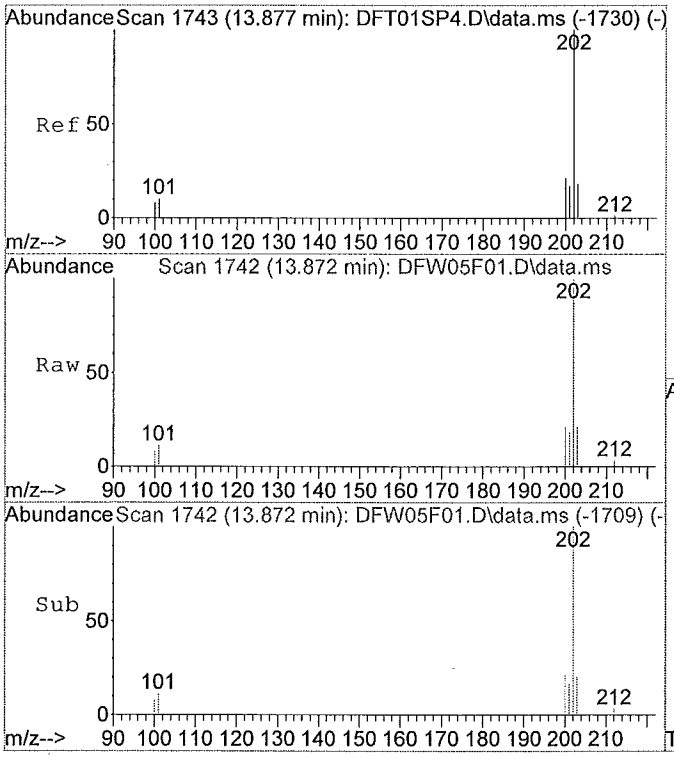


#14
Fluoranthene
Concen: 0.66 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFW05F01.D
Acq: 06/08/2015 16:23

Tgt Ion:202 Resp: 531584

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

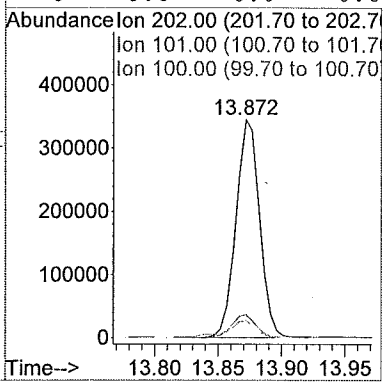


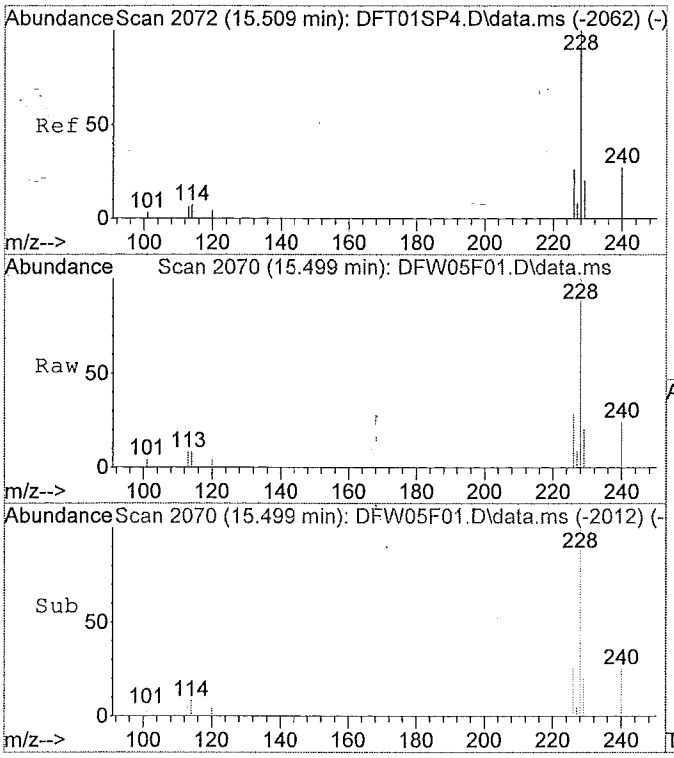


#16
Pyrene
Concen: 0.53 ug/ml
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DFW05F01.D
Acq: 06/08/2015 16:23

Tgt Ion:202 Resp: 446114

Ion	Ratio	Lower	Upper
202	100		
101	10.9	10.6	19.6
100	9.5	9.4	17.4
0	0.0	0.0	0.0

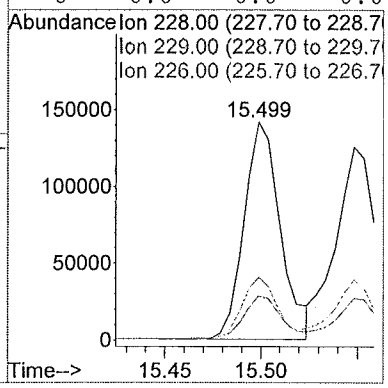


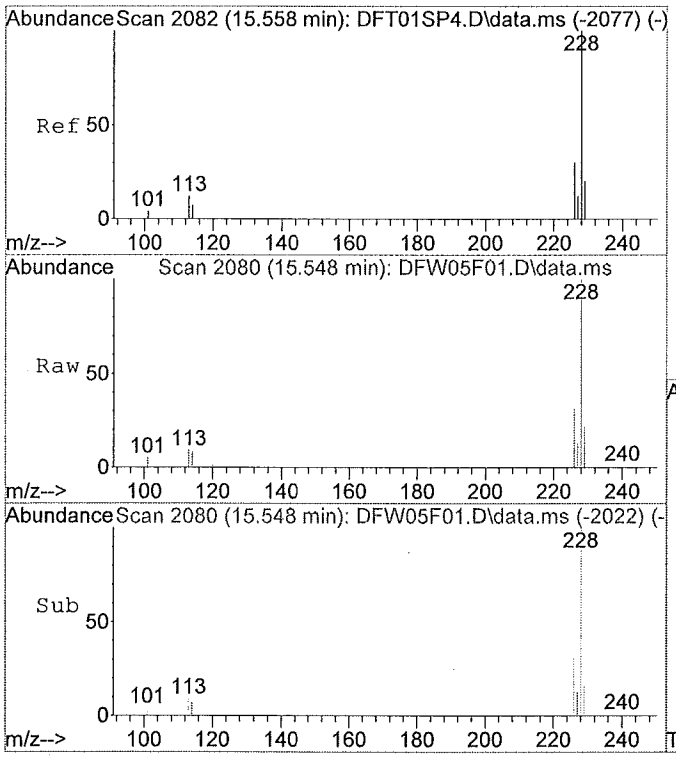


#17
Benzo(a)anthracene
Concen: 0.26 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFW05F01.D
Acq: 06/08/2015 16:23

Tgt Ion:228 Resp: 186864

Ion	Ratio	Lower	Upper
228	100		
229	20.9	14.5	26.9
226	27.7	18.5	34.3
0	0.0	0.0	0.0

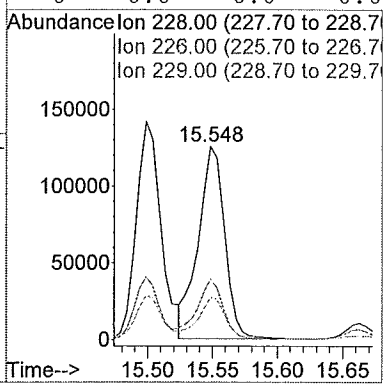


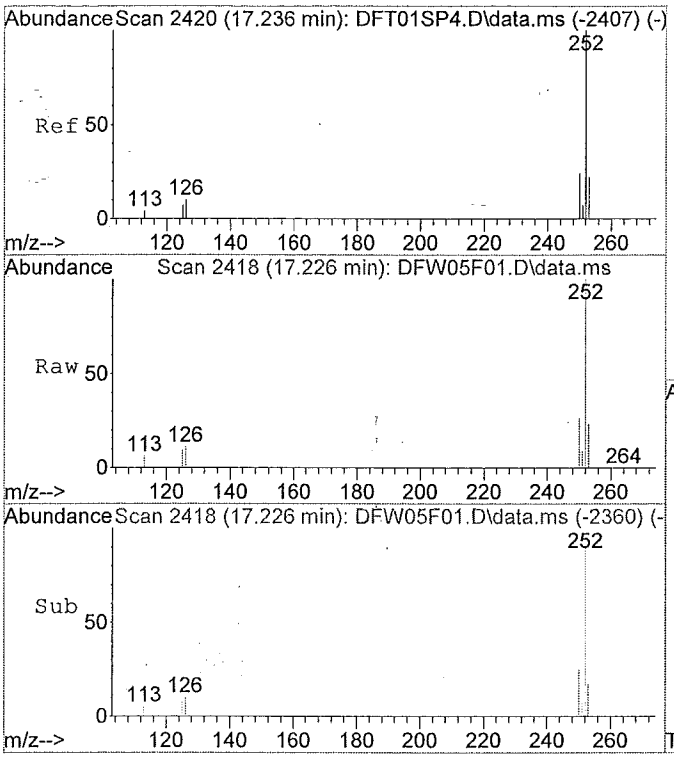


#18
Chrysene
Concen: 0.24 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFW05F01.D
Acq: 06/08/2015 16:23

Tgt Ion:228 Resp: 179398

Ion	Ratio	Lower	Upper
228	100		
226	31.5	19.7	36.7
229	22.2	14.5	26.9
0	0.0	0.0	0.0

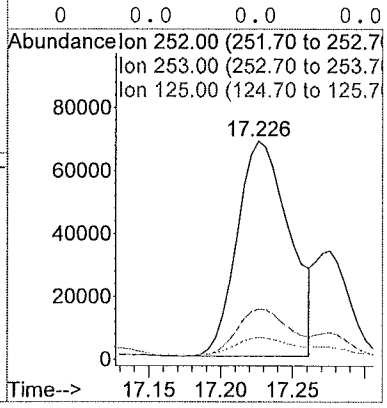


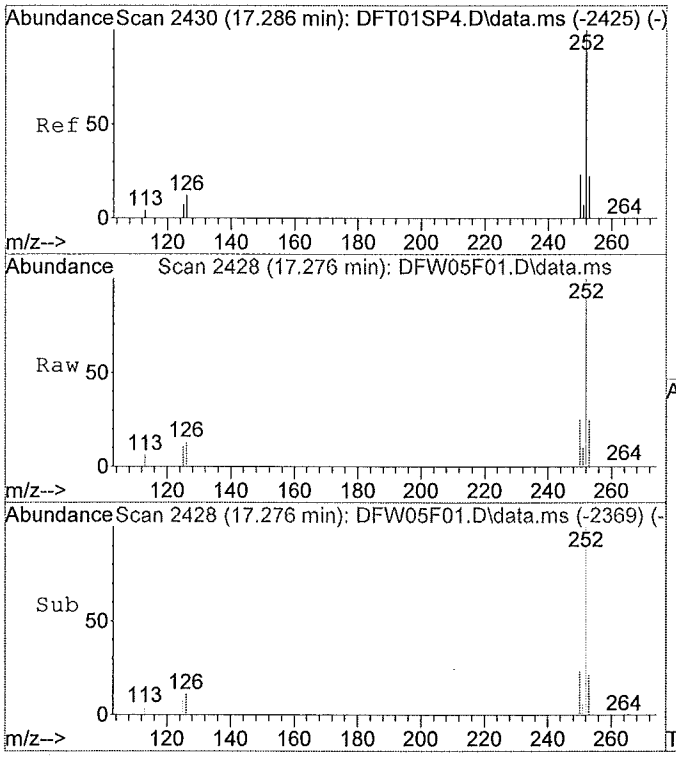


#20
Benzo(b)fluoranthene
Concen: 0.22 ug/ml
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DFW05F01.D
Acq: 06/08/2015 16:23

Tgt Ion:252 Resp: 174115

Ion	Ratio	Lower	Upper
252	100		
253	21.9	15.3	28.3
125	8.4	0.0	0.0#
0	0.0	0.0	0.0

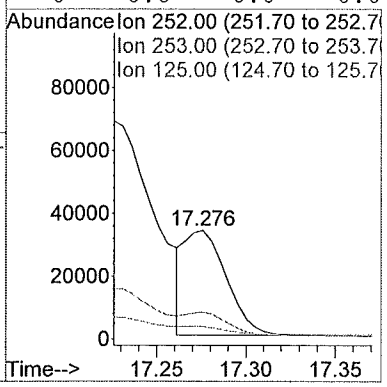


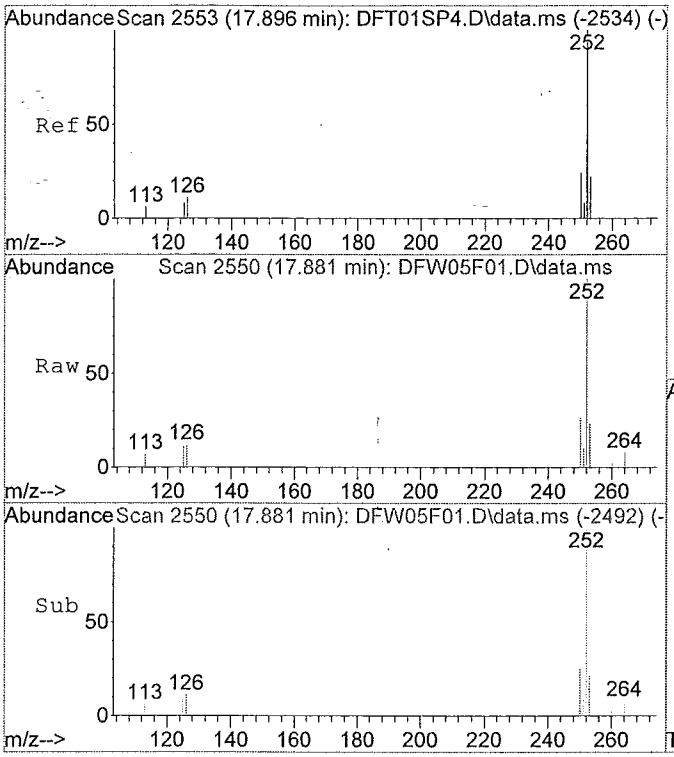


#21
Benzo(k)fluoranthene
Concen: 0.07 ug/ml m
RT: 17.28 min Scan# 2428
Delta R.T. -0.00 min
Lab File: DFW05F01.D
Acq: 06/08/2015 16:23

Tgt Ion:252 Resp: 54967

Ion	Ratio	Lower	Upper
252	100		
253	69.5	15.0	27.8#
125	26.6	0.0	0.0#
0	0.0	0.0	0.0

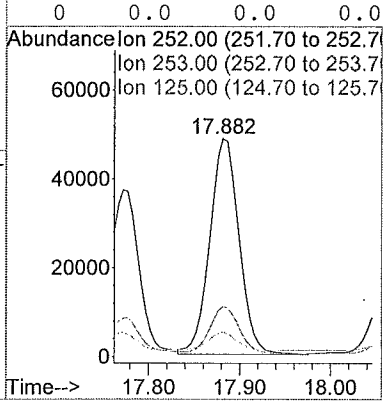


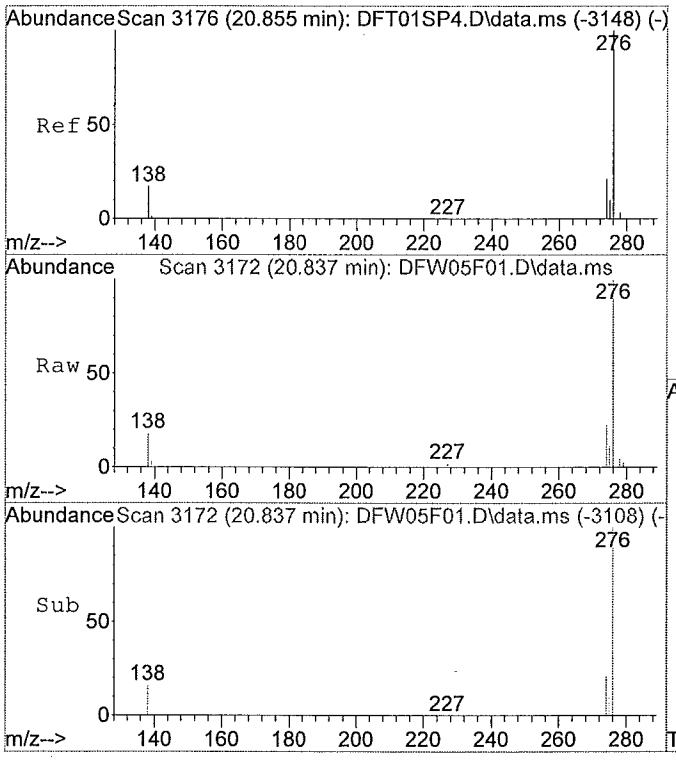


#22
Benzo(a)pyrene
Concen: 0.14 ug/ml
RT: 17.88 min Scan# 2550
Delta R.T. -0.01 min
Lab File: DFW05F01.D
Acq: 06/08/2015 16:23

Tgt Ion:252 Resp: 108575

Ion	Ratio	Lower	Upper
252	100		
253	21.8	15.0	27.8
125	8.2	0.0	0.0#
0	0.0	0.0	0.0

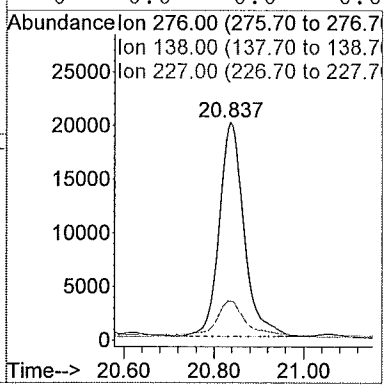


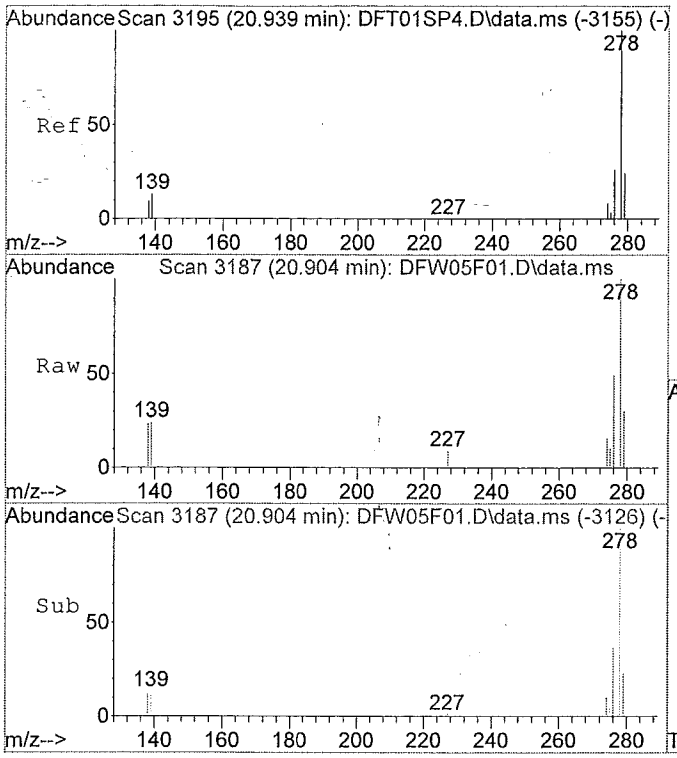


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.11 ug/ml
RT: 20.84 min Scan# 3172
Delta R.T. -0.01 min
Lab File: DFW05F01.D
Acq: 06/08/2015 16:23

Tgt Ion:276 Resp: 76099

Ion	Ratio	Lower	Upper
276	100		
138	18.2	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

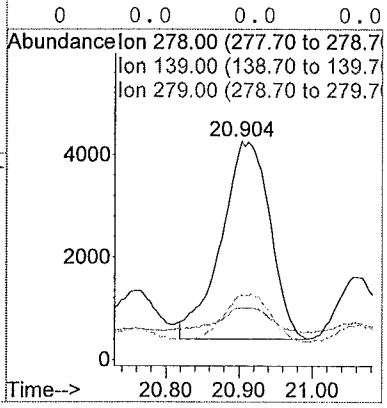


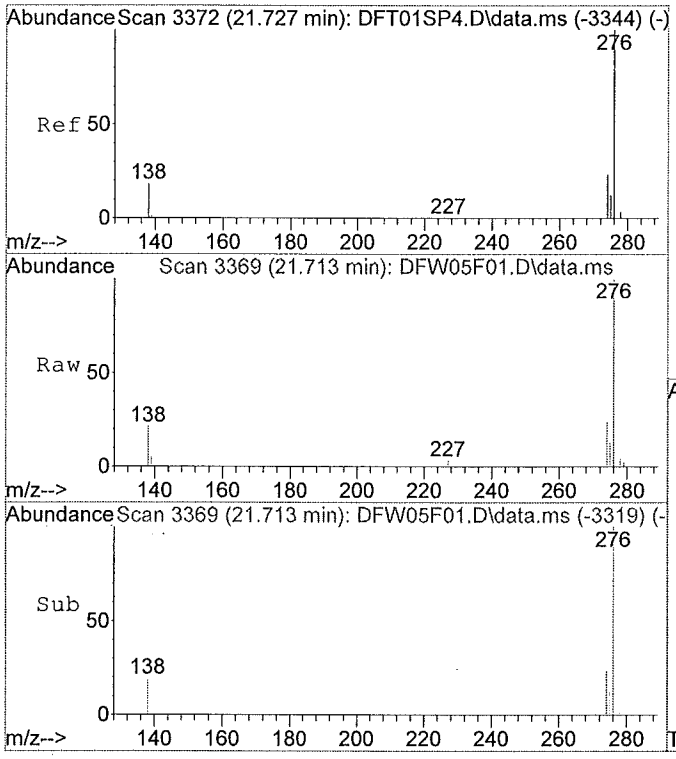


#24
Dibenzo(a,h)anthracene
Concen: 0.02 ug/ml
RT: 20.90 min Scan# 3187
Delta R.T. -0.03 min
Lab File: DFW05F01.D
Acq: 06/08/2015 16:23

Tgt Ion:278 Resp: 17828

Ion	Ratio	Lower	Upper
278	100		
139	12.9	0.0	0.0#
279	23.1	15.8	29.3
0	0.0	0.0	0.0

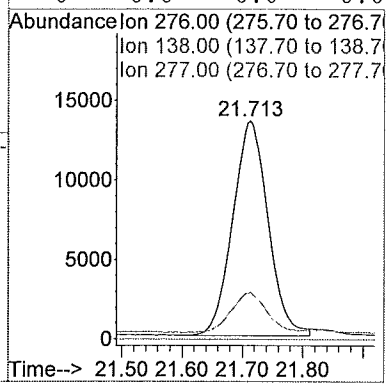




#25
Benzo(g,h,i)perylene
Concen: 0.07 ug/ml
RT: 21.71 min Scan# 3369
Delta R.T. -0.01 min
Lab File: DFW05F01.D
Acq: 06/08/2015 16:23

Tgt Ion:276 Resp: 54765

Ion	Ratio	Lower	Upper
276	100		
138	18.7	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.

F9L59

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293002

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFN07F02

Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/16/2015

GPC Cleanup: (Y/N) Y pH: 6.8 Dilution Factor: 1.0

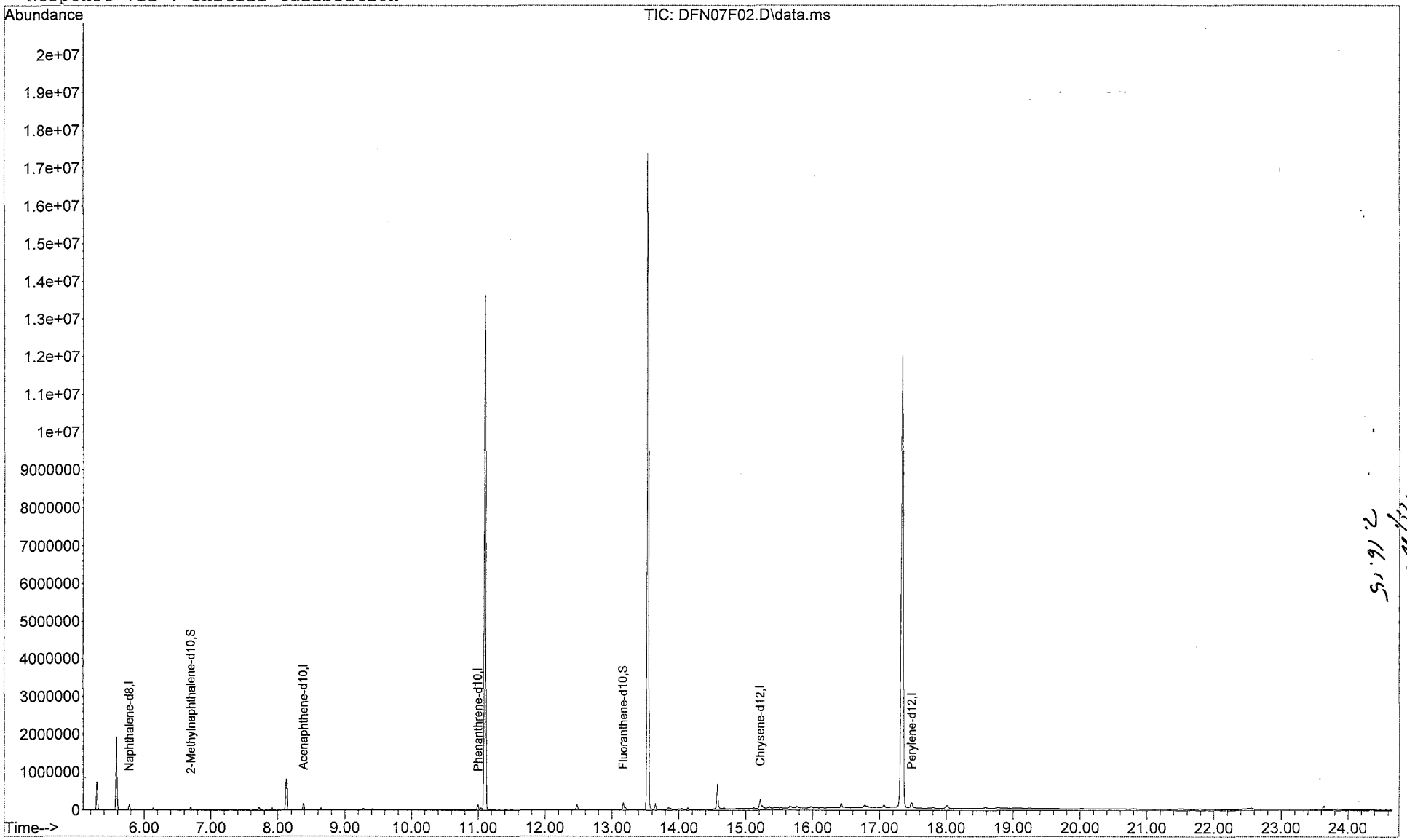
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.9	U
91-57-6	2-Methylnaphthalene	0.84	J
208-96-8	Acenaphthylene	0.82	J
83-32-9	Acenaphthene	3.9	U
86-73-7	Fluorene	3.9	U
87-86-5	Pentachlorophenol	7.8	U
85-01-8	Phenanthrene	2.6	J
120-12-7	Anthracene	3.9	U
206-44-0	Fluoranthene	3.5	J
129-00-0	Pyrene	3.4	J
56-55-3	Benzo(a)anthracene	2.6	J
218-01-9	Chrysene	3.4	J
205-99-2	Benzo(b)fluoranthene	4.1	
207-08-9	Benzo(k)fluoranthene	1.0	J
50-32-8	Benzo(a)pyrene	2.1	J
193-39-5	Indeno(1,2,3-cd)pyrene	2.6	J
53-70-3	Dibenzo(a,h)anthracene	3.9	U
191-24-2	Benzo(g,h,i)perylene	1.7	J

Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN07F02.D
Vial: 17
Acq On : 07/16/2015 11:16
Operator: DJC
Sample : 1514293002 F9L59
Inst : 5975-D
Misc : . SOIL SIM
Injection volume : 1uL
MS Integration Params: rteint.p
Column Identifier: DB-5MS

Quant Time: Jul 16 14:02:57 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



7.16.15

Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN07F02.D Vial: 17
Acq On : 07/16/2015 11:16 Operator: DJC
Sample : 1514293002 F9L59 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 16 14:02:57 2015 Results File: DSOM_SIMJ2.RES

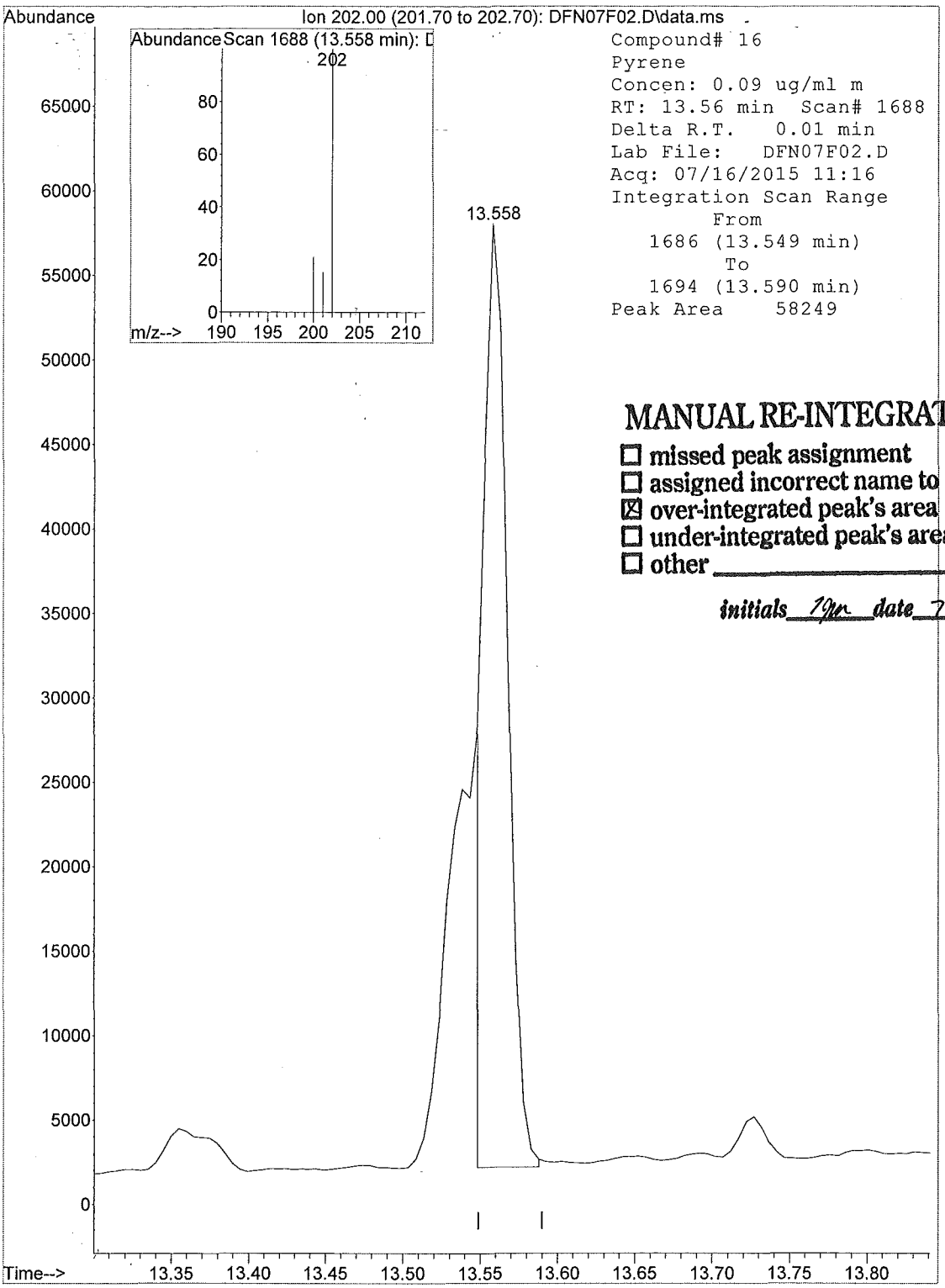
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	5.78	136	161414	0.40 ug/ml
5) Acenaphthene-d10	8.38	164	118042	0.40 ug/ml
9) Phenanthrene-d10	11.00	188	190706	0.40 ug/ml
15) Chrysene-d12	15.21	240	214229	0.40 ug/ml
19) Perylene-d12	17.48	264	251492	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	6.70	152	88828	0.341ug/mL
13) Fluoranthene-d10	13.17	212	217622	0.417ug/mL

Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	6.74	142	5818	0.021ug/ml	98
6) Acenaphthylene	8.14	152	10860	0.021ug/ml	53
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.03	178	36915	0.067ug/ml	96
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.20	202	56654	0.091ug/ml	98
16) Pyrene	13.56	202	58249	0.087ug/ml m	1 7.16.15
17) Benzo(a)anthracene	15.20	228	38779	0.068ug/ml	90
18) Chrysene	15.24	228	52884	0.088ug/ml	98
20) Benzo(b)fluoranthene	16.78	252	81904	0.104ug/ml	98
21) Benzo(k)fluoranthene	16.82	252	21335	0.026ug/ml m	99 7.16.15
22) Benzo(a)pyrene	17.37	252	40866	0.055ug/ml	55
23) Indeno(1,2,3-c,d)pyrene	20.02	276	43236	0.066ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	20.80	276	32981	0.045ug/ml	76

(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 Pyrene



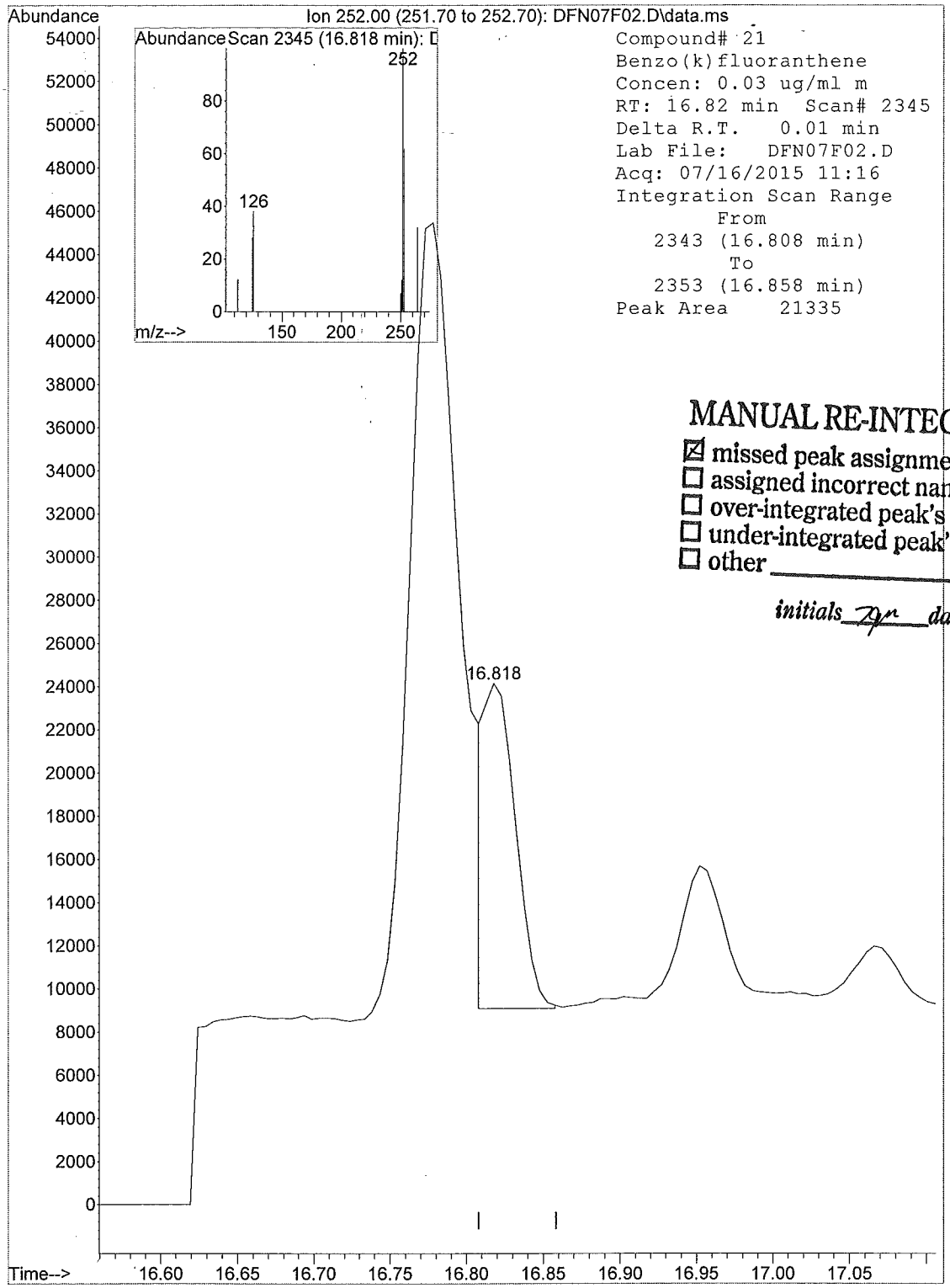
Compound# 16
Pyrene
Concen: 0.09 ug/ml m
RT: 13.56 min Scan# 1688
Delta R.T. 0.01 min
Lab File: DFN07F02.D
Acq: 07/16/2015 11:16
Integration Scan Range
From
1686 (13.549 min)
To
1694 (13.590 min)
Peak Area 58249

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials JM *date* 7.16.15

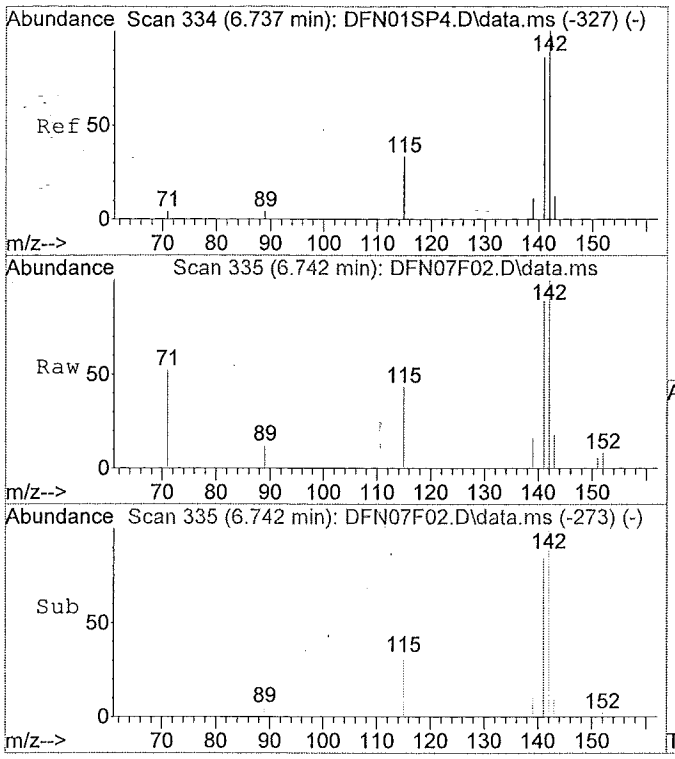
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

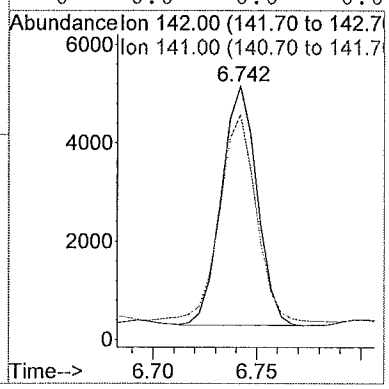
initials Zyr *date* 7.16.15

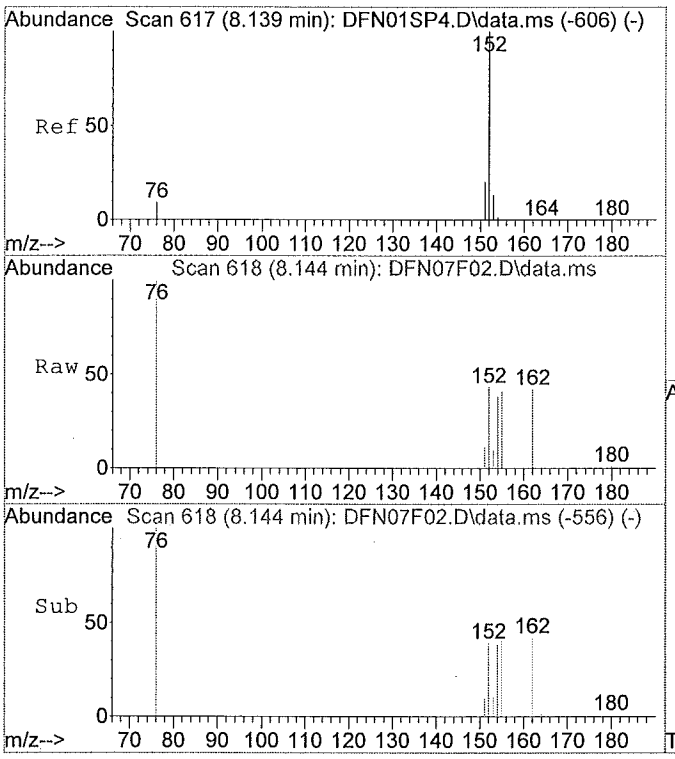


#4
2-Methylnaphthalene
Concen: 0.02 ug/ml
RT: 6.74 min Scan# 335
Delta R.T. 0.01 min
Lab File: DFN07F02.D
Acq: 07/16/2015 11:16

Tgt Ion:142 Resp: 5818

Ion	Ratio	Lower	Upper
142	100		
141	89.1	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

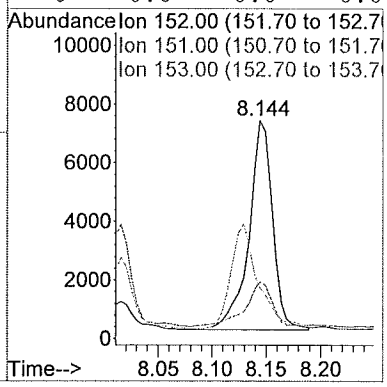


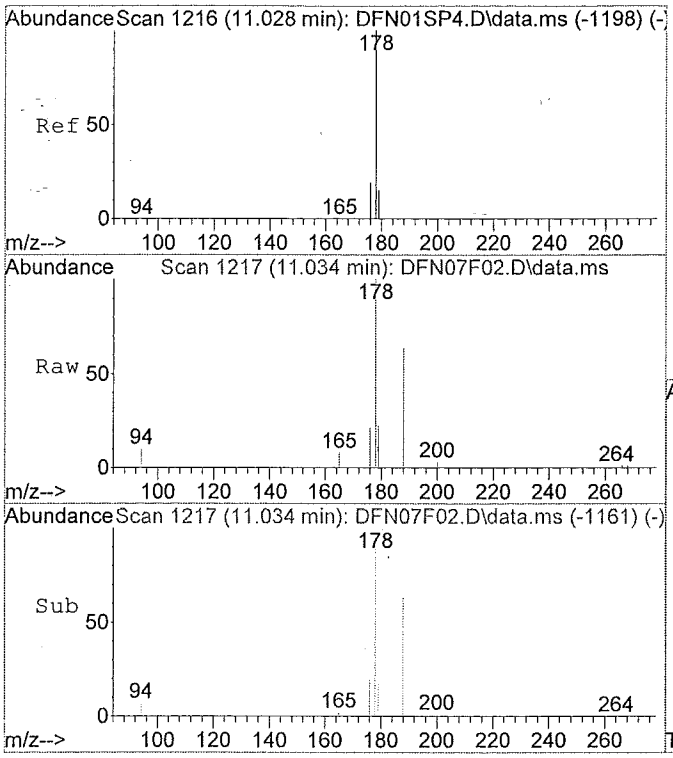


#6
Acenaphthylene
Concen: 0.02 ug/ml
RT: 8.14 min Scan# 618
Delta R.T. 0.01 min
Lab File: DFN07F02.D
Acq: 07/16/2015 11:16

Tgt Ion:152 Resp: 10860

Ion	Ratio	Lower	Upper
152	100		
151	24.5	15.5	28.7
153	60.2	8.8	16.4#
0	0.0	0.0	0.0

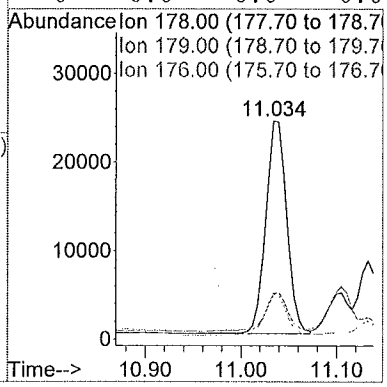


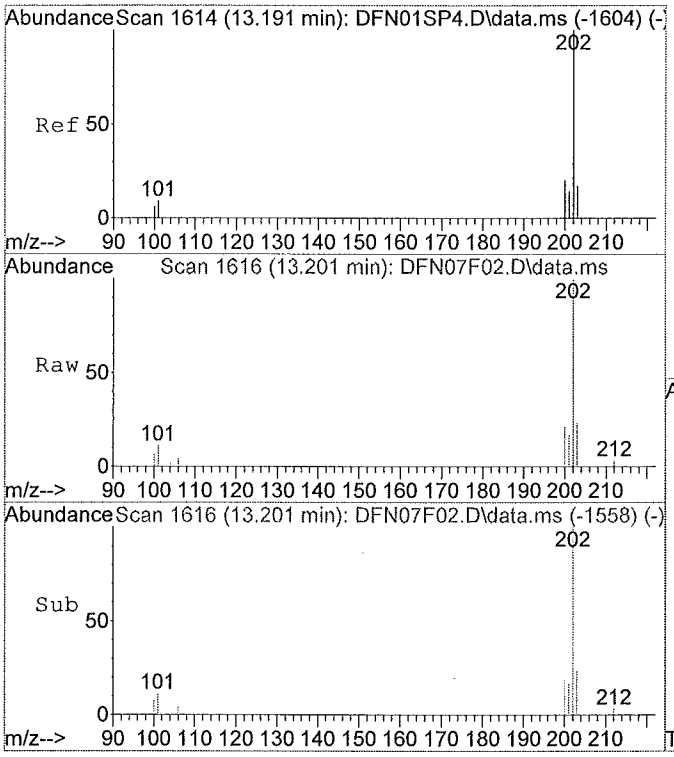


#11
Phenanthrene
Concen: 0.07 ug/ml
RT: 11.03 min Scan# 1217
Delta R.T. 0.01 min
Lab File: DFN07F02.D
Acq: 07/16/2015 11:16

Tgt Ion:178 Resp: 36915

Ion	Ratio	Lower	Upper
178	100		
179	19.2	11.1	20.5
176	20.2	14.1	26.1
0	0.0	0.0	0.0

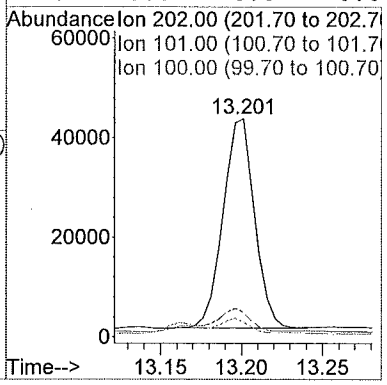


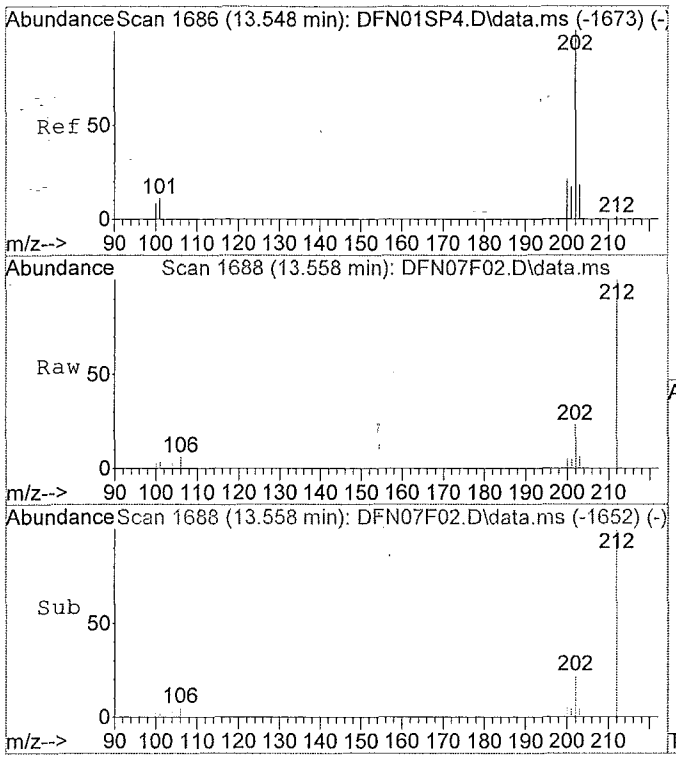


#14
Fluoranthene
Concen: 0.09 ug/ml
RT: 13.20 min Scan# 1616
Delta R.T. 0.01 min
Lab File: DFN07F02.D
Acq: 07/16/2015 11:16

Tgt Ion:202 Resp: 56654

Ion	Ratio	Lower	Upper
202	100		
101	14.5	9.4	17.6
100	6.3	0.0	0.0#
0	0.0	0.0	0.0

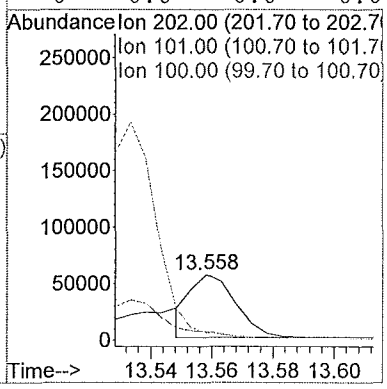


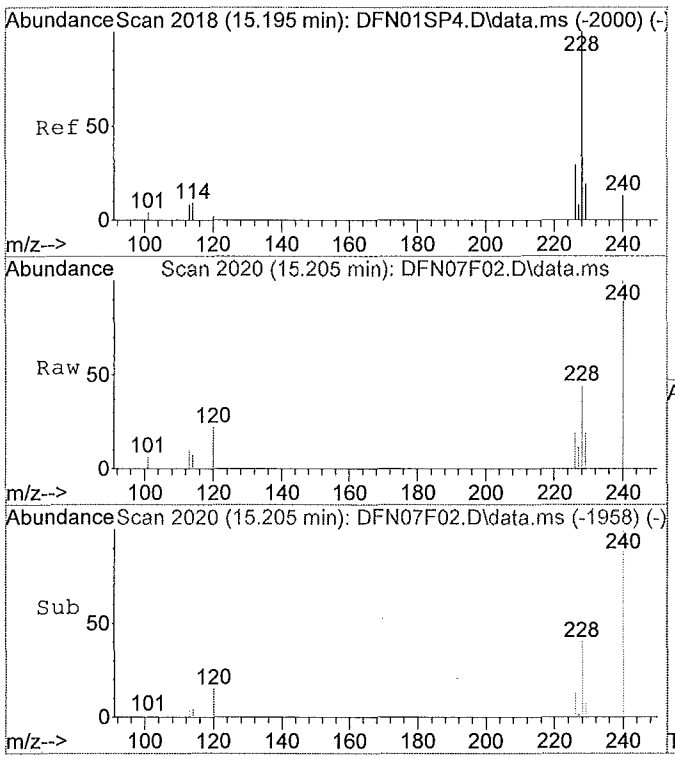


#16
Pyrene
Concen: 0.09 ug/ml m
RT: 13.56 min Scan# 1688
Delta R.T. 0.01 min
Lab File: DFN07F02.D
Acq: 07/16/2015 11:16

Tgt Ion:202 Resp: 58249

Ion	Ratio	Lower	Upper
202	100		
101	93.3	10.6	19.6#
100	439.8	9.4	17.4#
0	0.0	0.0	0.0

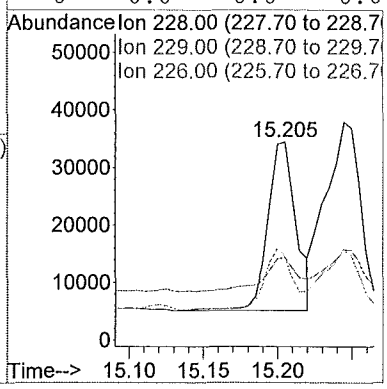


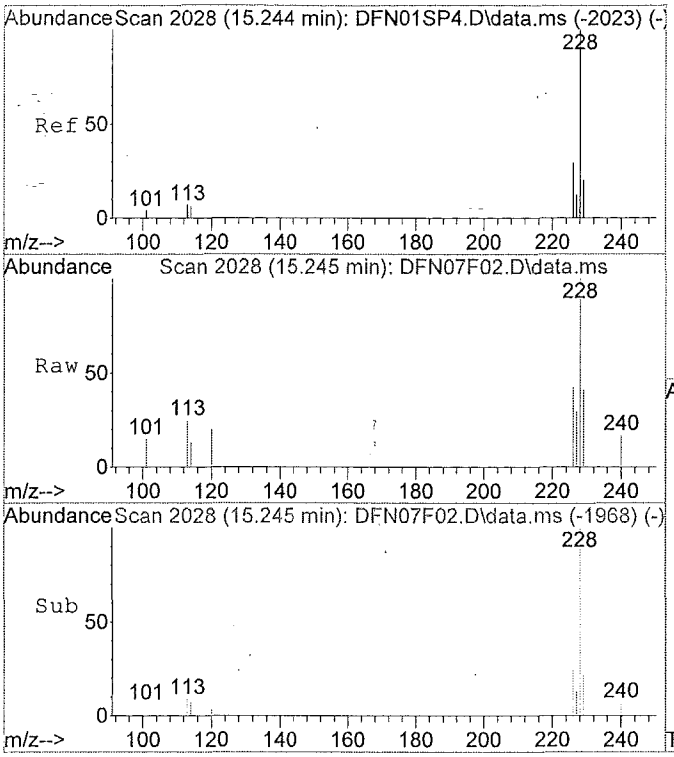


#17
Benzo(a)anthracene
Concen: 0.07 ug/ml
RT: 15.20 min Scan# 2020
Delta R.T. 0.01 min
Lab File: DFN07F02.D
Acq: 07/16/2015 11:16

Tgt Ion:228 Resp: 38779

Ion	Ratio	Lower	Upper
228	100		
229	23.3	14.5	26.9
226	33.3	18.5	34.3
0	0.0	0.0	0.0

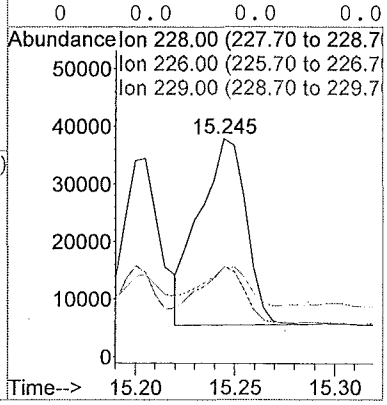


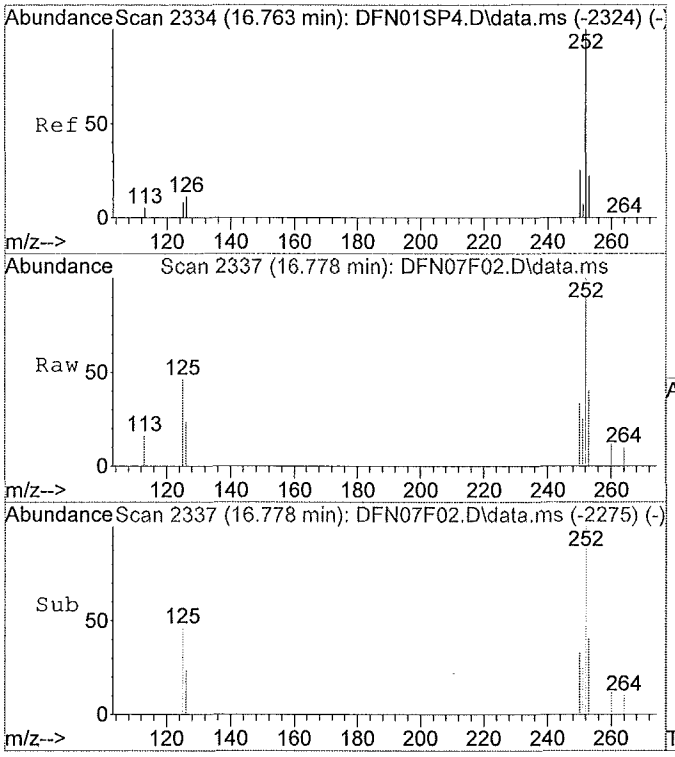


#18
Chrysene
Concen: 0.09 ug/ml
RT: 15.24 min Scan# 2028
Delta R.T. 0.00 min
Lab File: DFN07F02.D
Acq: 07/16/2015 11:16

Tgt Ion:228 Resp: 52884

Ion	Ratio	Lower	Upper
228	100		
226	28.1	19.7	36.7
229	22.3	14.5	26.9
0	0.0	0.0	0.0

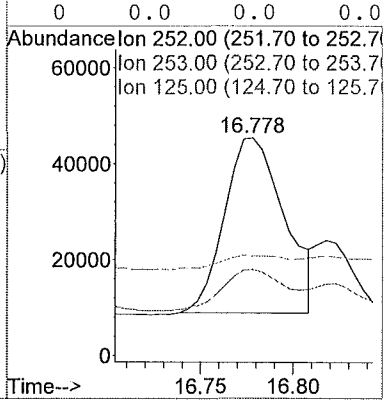


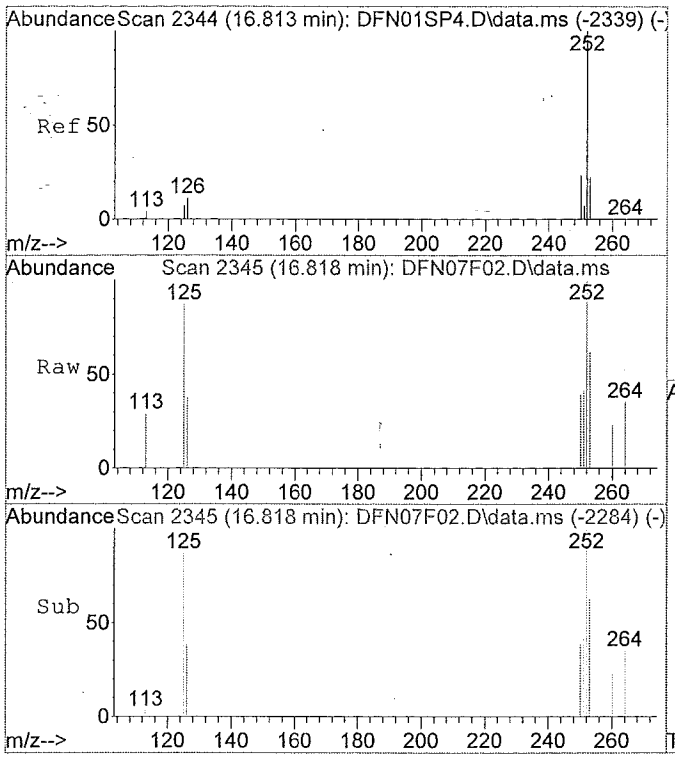


#20
Benzo(b)fluoranthene
Concen: 0.10 ug/ml
RT: 16.78 min Scan# 2337
Delta R.T. 0.01 min
Lab File: DFN07F02.D
Acq: 07/16/2015 11:16

Tgt Ion:252 Resp: 81904

Ion	Ratio	Lower	Upper
252	100		
253	20.7	15.3	28.3
125	0.0	0.0	0.0
0	0.0	0.0	0.0

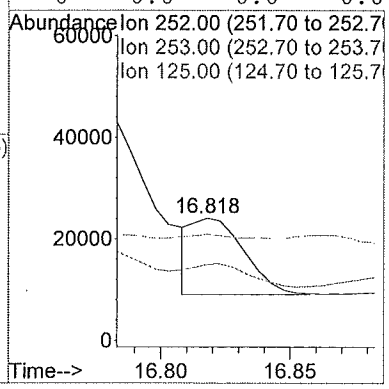


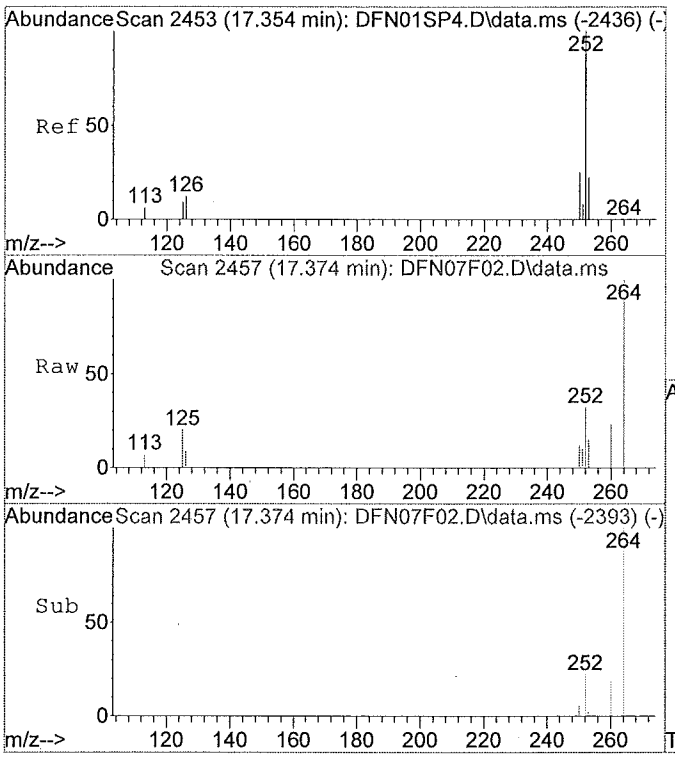


#21
Benzo(k)fluoranthene
Concen: 0.03 ug/ml m
RT: 16.82 min Scan# 2345
Delta R.T. 0.01 min
Lab File: DFN07F02.D
Acq: 07/16/2015 11:16

Tgt Ion:252 Resp: 21335

Ion	Ratio	Lower	Upper
252	100		
253	79.5	15.0	27.8#
125	0.0	0.0	0.0
0	0.0	0.0	0.0

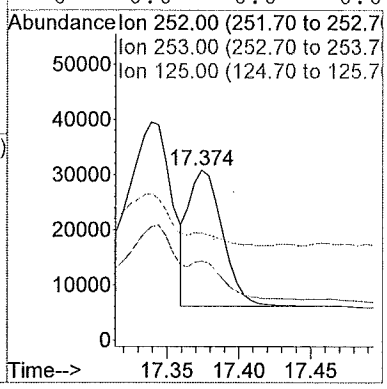


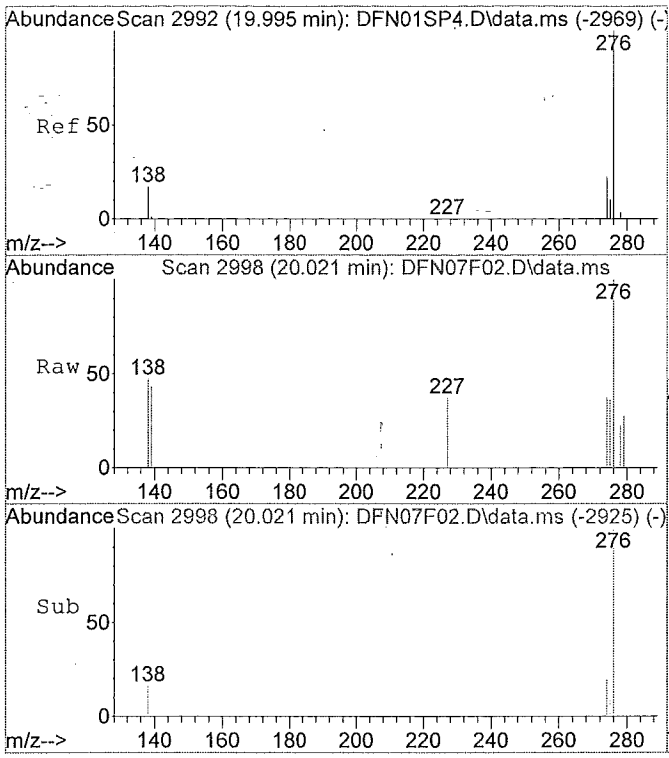


#22
Benzo(a)pyrene
Concen: 0.05 ug/ml
RT: 17.37 min Scan# 2457
Delta R.T. 0.02 min
Lab File: DFN07F02.D
Acq: 07/16/2015 11:16

Tgt Ion:252 Resp: 40866

Ion	Ratio	Lower	Upper
252	100		
253	0.0	15.0	27.8#
125	0.0	0.0	0.0
0	0.0	0.0	0.0

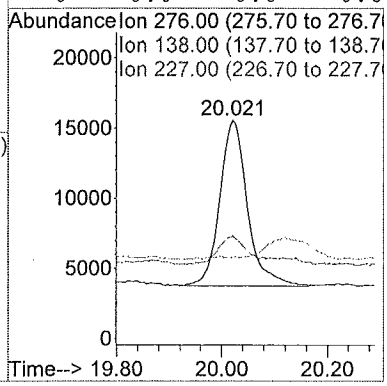


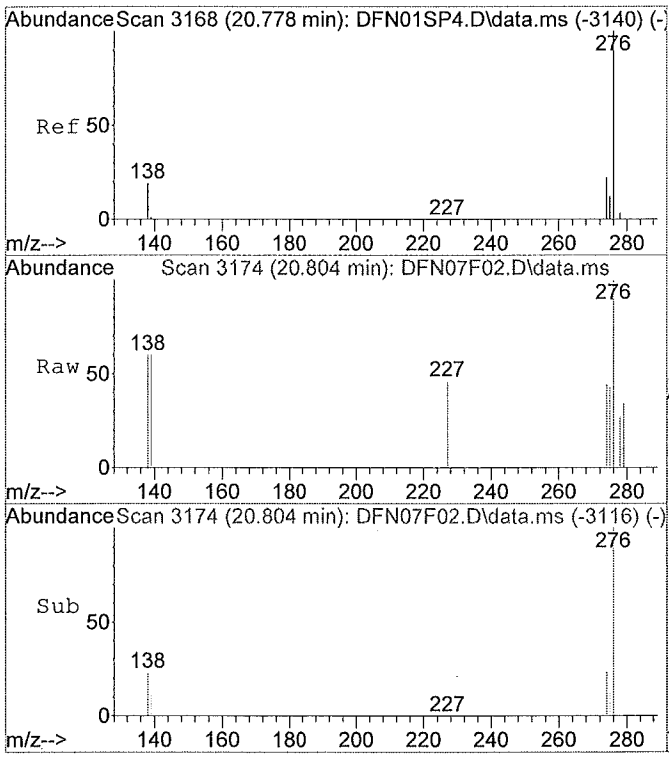


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.07 ug/ml
RT: 20.02 min Scan# 2998
Delta R.T. 0.03 min
Lab File: DFN07F02.D
Acq: 07/16/2015 11:16

Tgt Ion:276 Resp: 43236

Ion	Ratio	Lower	Upper
276	100		
138	17.5	0.0	0.0#
227	0.6	0.0	0.0#
0	0.0	0.0	0.0

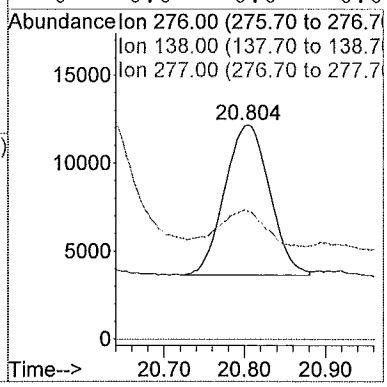




#25
Benzo(g,h,i)perylene
Concen: 0.04 ug/ml
RT: 20.80 min Scan# 3174
Delta R.T. 0.03 min
Lab File: DFN07F02.D
Acq: 07/16/2015 11:16

Tgt Ion:276 Resp: 32981

Ion	Ratio	Lower	Upper
276	100		
138	23.3	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.

F9L60

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293003

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFW07F03

Extraction: (Type) SONC

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/08/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	1.2	J
91-57-6	2-Methylnaphthalene	0.82	J
208-96-8	Acenaphthylene	2.0	J
83-32-9	Acenaphthene	4.1	U
86-73-7	Fluorene	4.1	U
87-86-5	Pentachlorophenol	1.0	J
85-01-8	Phenanthrene	3.1	J
120-12-7	Anthracene	2.0	J
206-44-0	Fluoranthene	9.6	
129-00-0	Pyrene	12.	
56-55-3	Benzo(a)anthracene	7.9	
218-01-9	Chrysene	10.	
205-99-2	Benzo(b)fluoranthene	12.	
207-08-9	Benzo(k)fluoranthene	3.3	J
50-32-8	Benzo(a)pyrene	6.0	
193-39-5	Indeno(1,2,3-cd)pyrene	6.9	
53-70-3	Dibenzo(a,h)anthracene	1.5	J
191-24-2	Benzo(g,h,i)perylene	4.1	

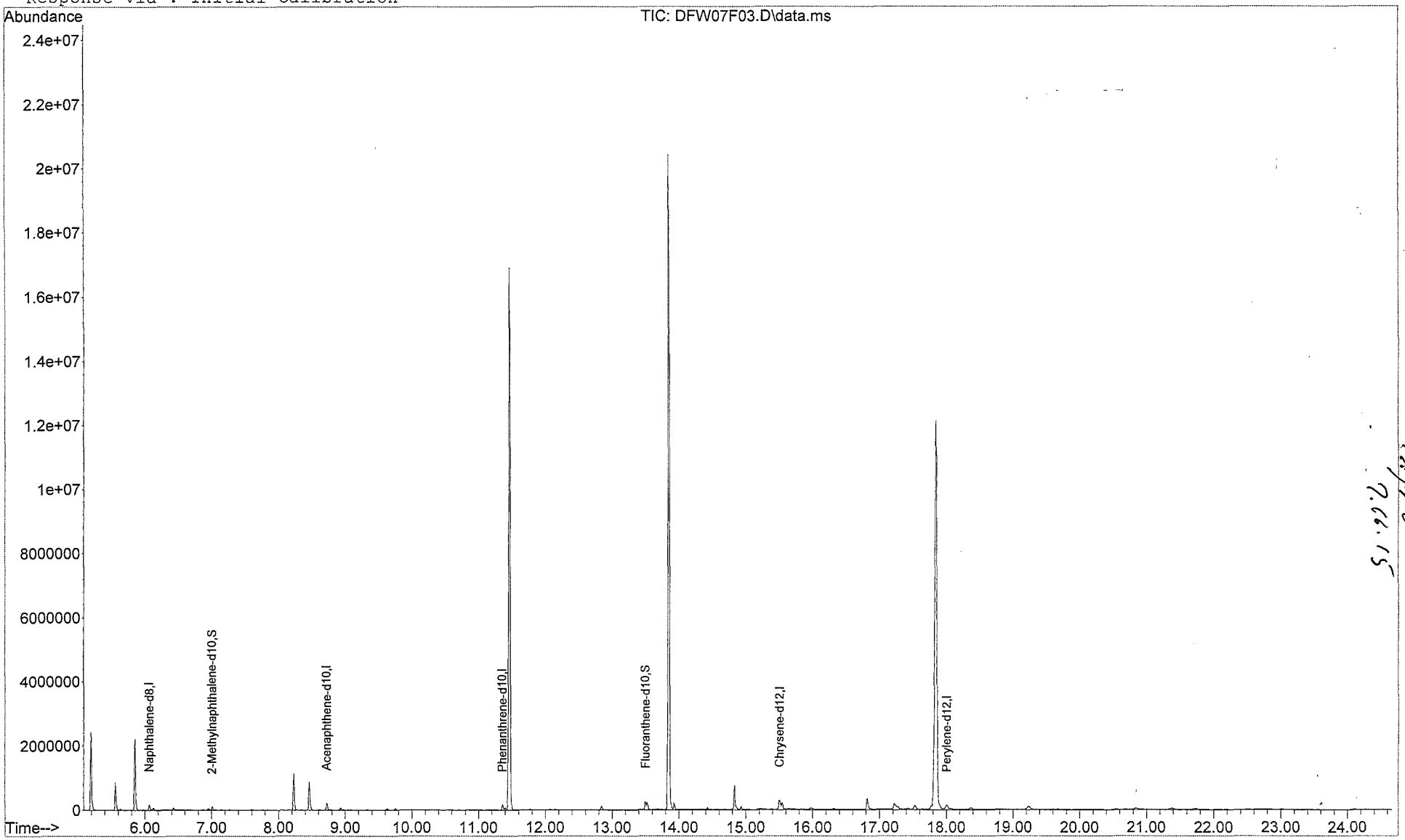
Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW07F03.D
Acq On : 06/08/2015 17:24
Sample : 1514293003 F9L60
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 6
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 14:53:36 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



7.16.15

Quantitation Report

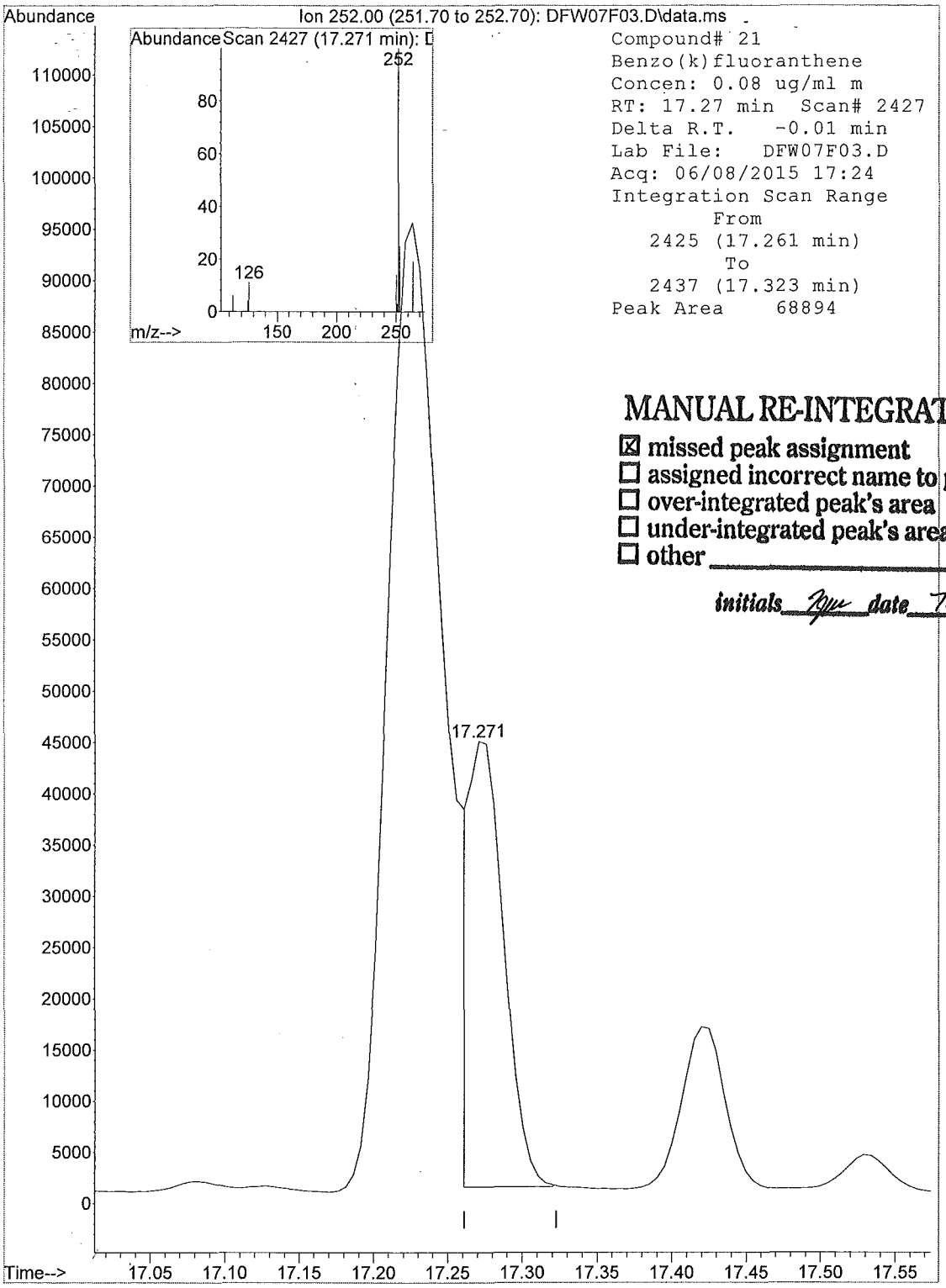
Data File : R:\D\2015\JUN15\08JUN15\DFW07F03.D Vial: 6
Acq On : 06/08/2015 17:24 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:53:36 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.07	136	198011	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	144369	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	236634	0.40 ug/ml	
15) Chrysene-d12	15.51	240	249554	0.40 ug/ml	
19) Perylene-d12	18.01	264	267360	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	111254	0.348ug/mL	
13) Fluoranthene-d10	13.50	212	276584	0.427ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.09	128	14909	0.029ug/ml	96
4) 2-Methylnaphthalene	7.05	142	6693	0.020ug/ml	95
6) Acenaphthylene	8.49	152	30916	0.049ug/ml	85
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	11.02	266	891	0.025ug/ml	100
11) Phenanthrene	11.40	178	51214	0.075ug/ml	95
12) Anthracene	11.50	178	32059	0.048ug/ml	95
14) Fluoranthene	13.53	202	181011	0.233ug/ml	98
16) Pyrene	13.88	202	226978	0.290ug/ml	1
17) Benzo(a)anthracene	15.50	228	128638	0.193ug/ml	92
18) Chrysene	15.55	228	174292	0.248ug/ml	96
20) Benzo(b)fluoranthene	17.23	252	245431	0.295ug/ml	100
21) Benzo(k)fluoranthene	17.27	252	68894	0.080ug/ml m	99 7.16.15
22) Benzo(a)pyrene	17.89	252	116602	0.146ug/ml	94
23) Indeno(1,2,3-c,d)pyrene	20.84	276	117765	0.169ug/ml	100
24) Dibenzo(a,h)anthracene	20.91	278	27850	0.036ug/ml	97
25) Benzo(g,h,i)perylene	21.72	276	78714	0.100ug/ml	50

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

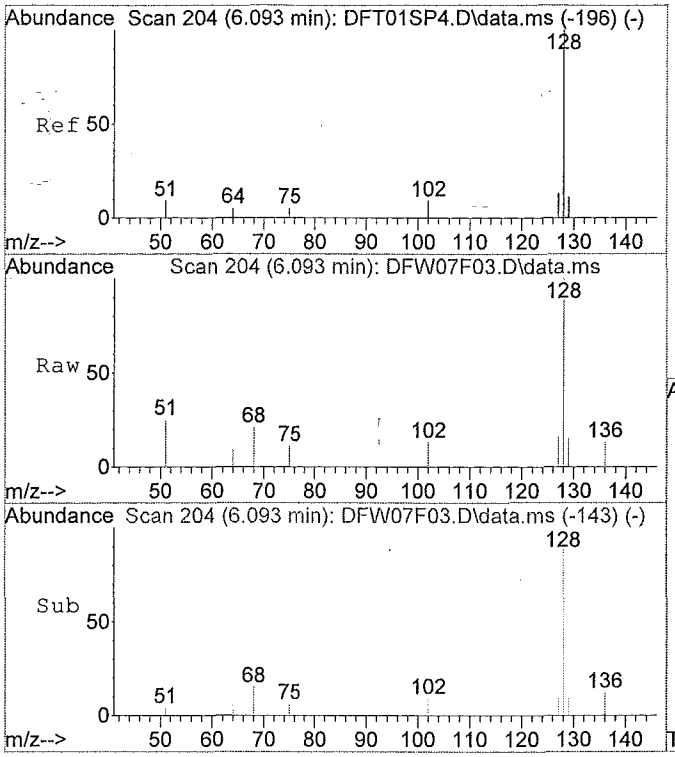
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

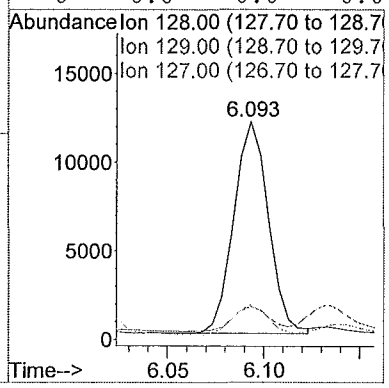
initials [illegible] *date* 7.16.15

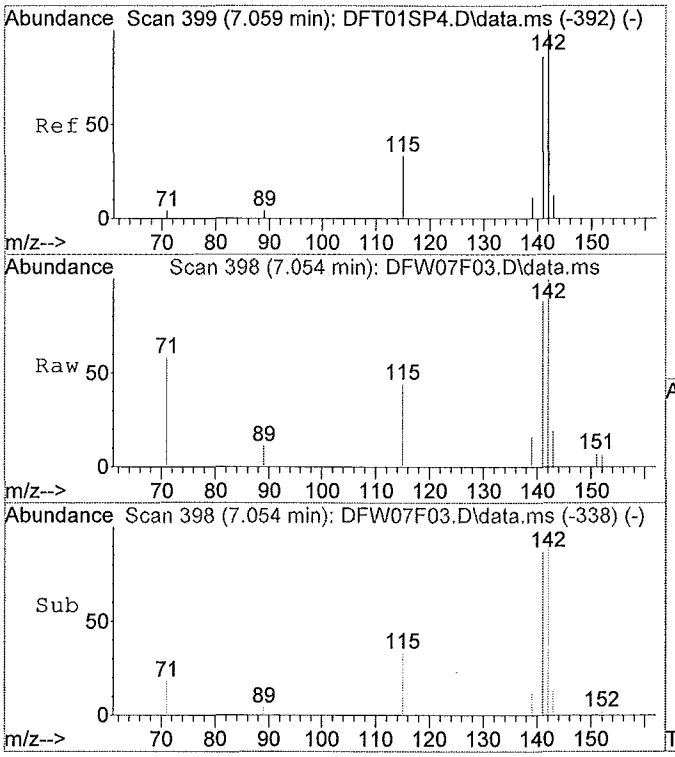


#2
Naphthalene
Concen: 0.03 ug/ml
RT: 6.09 min Scan# 204
Delta R.T. 0.00 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:128 Resp: 14909

Ion	Ratio	Lower	Upper
128	100		
129	11.9	0.0	0.0#
127	14.1	11.1	20.5
0	0.0	0.0	0.0

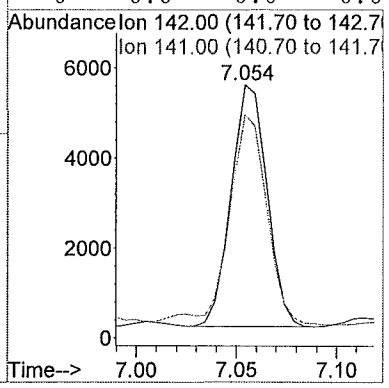


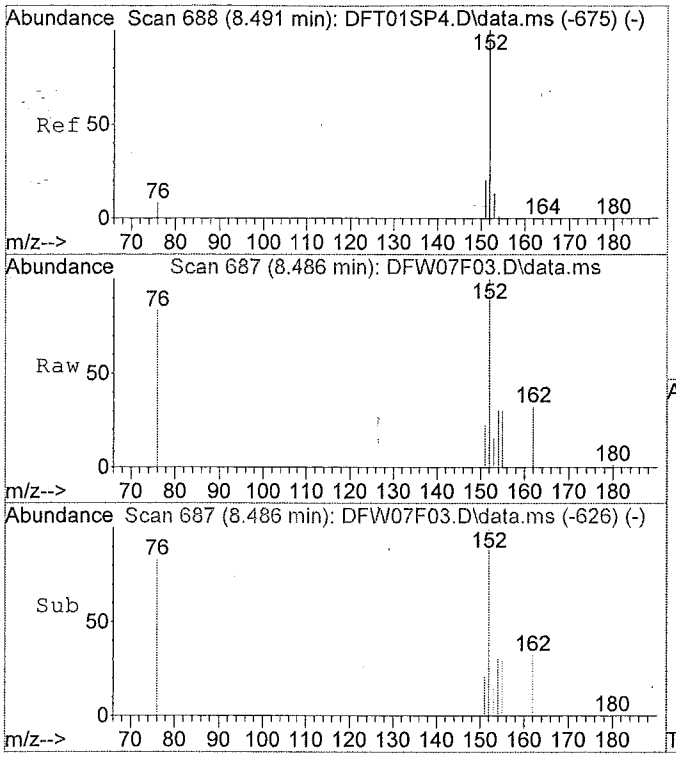


#4
2-Methylnaphthalene
Concen: 0.02 ug/ml
RT: 7.05 min Scan# 398
Delta R.T. -0.00 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:142 Resp: 6693

Ion	Ratio	Lower	Upper
142	100		
141	92.1	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

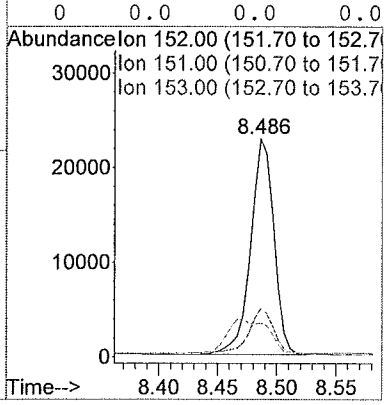


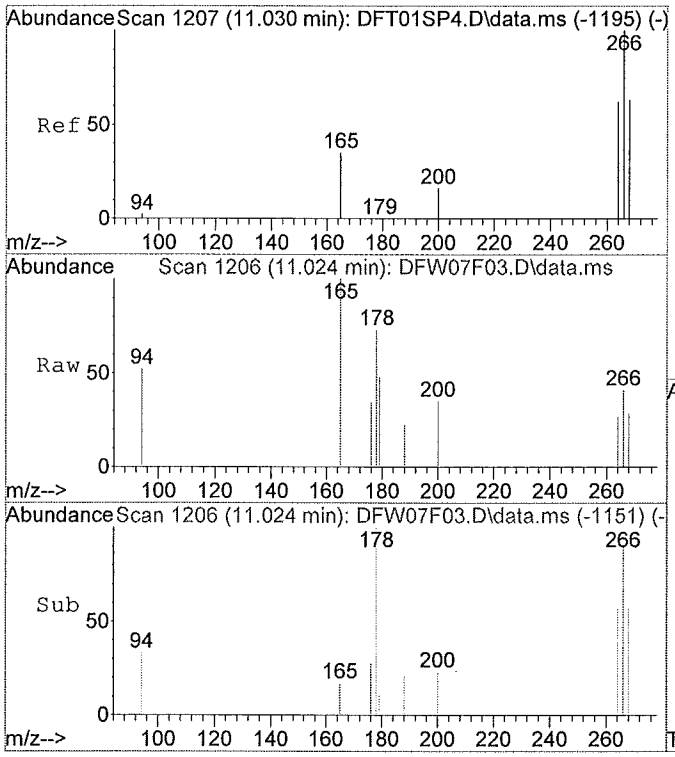


#6
Acenaphthylene
Concen: 0.05 ug/ml
RT: 8.49 min Scan# 687
Delta R.T. 0.00 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:152 Resp: 30916

Ion	Ratio	Lower	Upper
152	100		
151	22.1	15.5	28.7
153	29.0	8.8	16.4#
0	0.0	0.0	0.0

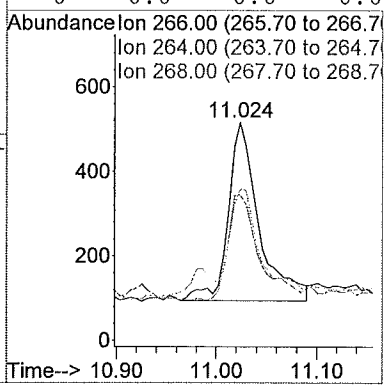


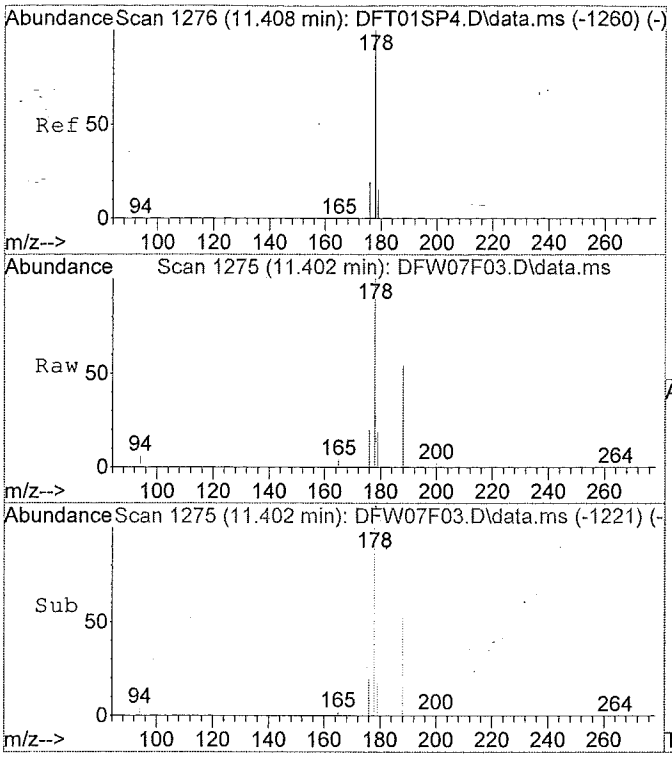


#10
Pentachlorophenol
Concen: 0.03 ug/ml
RT: 11.02 min Scan# 1206
Delta R.T. 0.00 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:266 Resp: 891

Ion	Ratio	Lower	Upper
266	100		
264	59.9	0.0	0.0#
268	54.1	0.0	0.0#
0	0.0	0.0	0.0

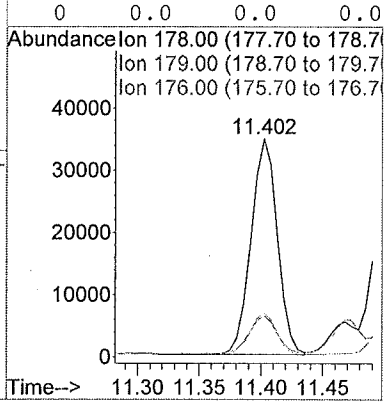


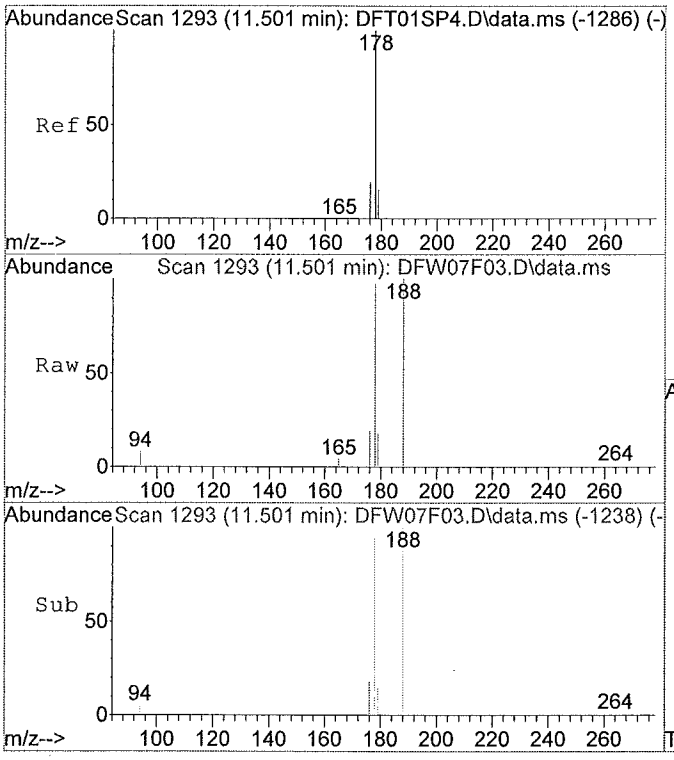


#11
Phenanthrene
Concen: 0.08 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:178 Resp: 51214

Ion	Ratio	Lower	Upper
178	100		
179	19.6	11.1	20.5
176	18.9	14.1	26.1
0	0.0	0.0	0.0

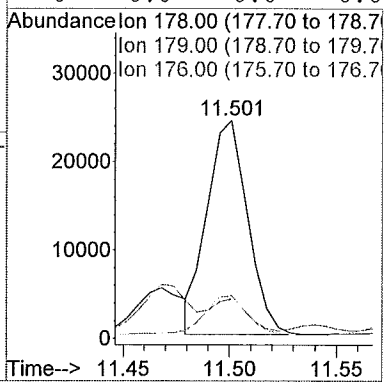


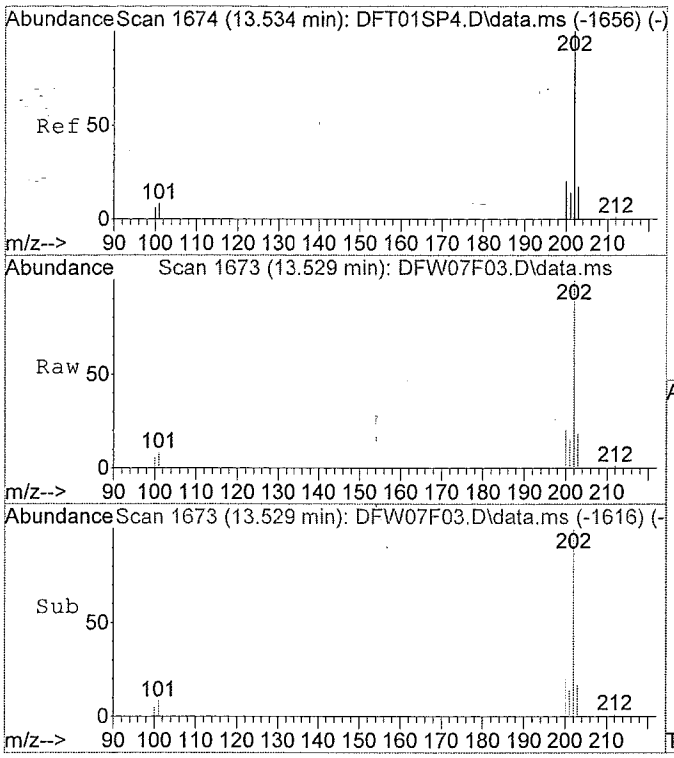


#12
Anthracene
Concen: 0.05 ug/ml
RT: 11.50 min Scan# 1293
Delta R.T. 0.00 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:178 Resp: 32059

Ion	Ratio	Lower	Upper
178	100		
179	11.5	11.6	21.6#
176	19.7	13.9	25.7
0	0.0	0.0	0.0

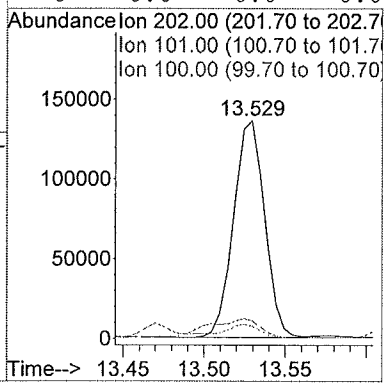


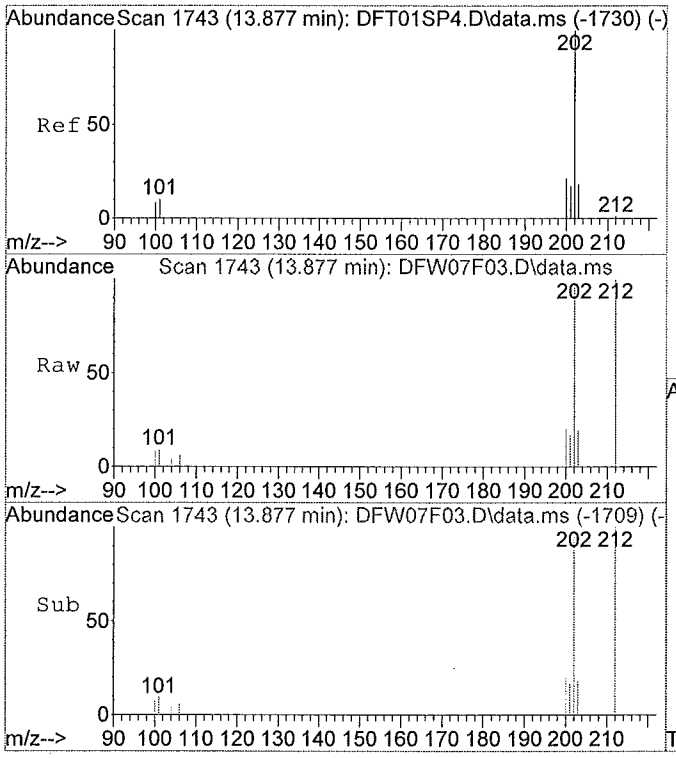


#14
Fluoranthene
Concen: 0.23 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:202 Resp: 181011

Ion	Ratio	Lower	Upper
202	100		
101	14.1	9.4	17.6
100	8.5	0.0	0.0#
0	0.0	0.0	0.0

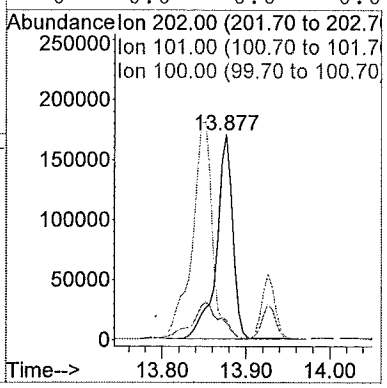


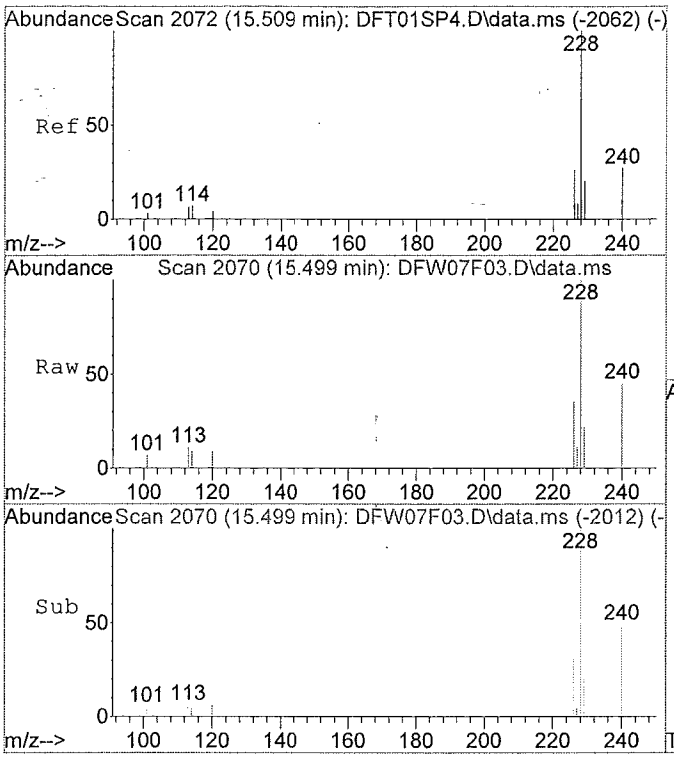


#16
Pyrene
Concen: 0.29 ug/ml
RT: 13.88 min Scan# 1743
Delta R.T. 0.00 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:202 Resp: 226978

Ion	Ratio	Lower	Upper
202	100		
101	31.9	10.6	19.6#
100	135.1	9.4	17.4#
0	0.0	0.0	0.0

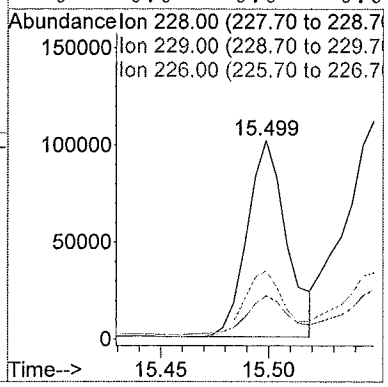


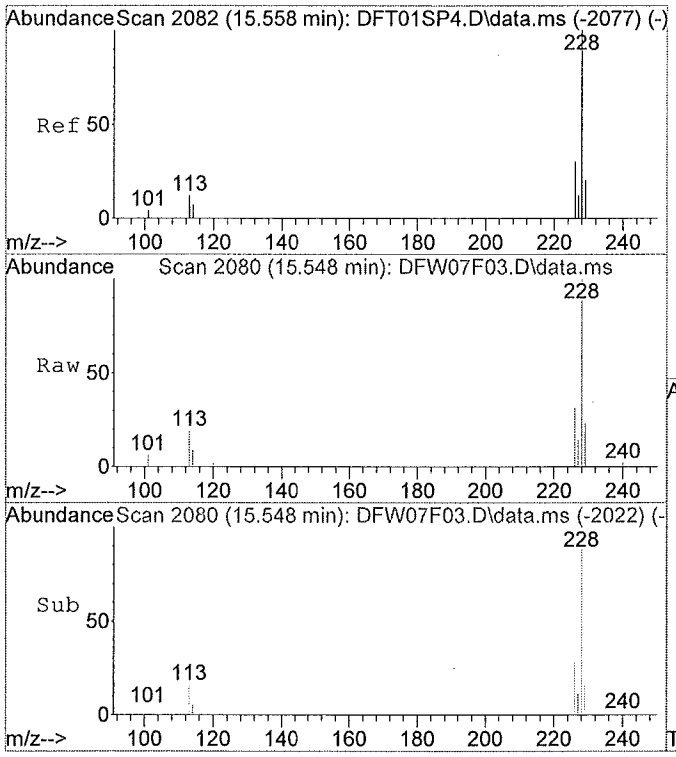


#17
Benzo(a)anthracene
Concen: 0.19 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:228 Resp: 128638

Ion	Ratio	Lower	Upper
228	100		
229	21.0	14.5	26.9
226	33.1	18.5	34.3
0	0.0	0.0	0.0

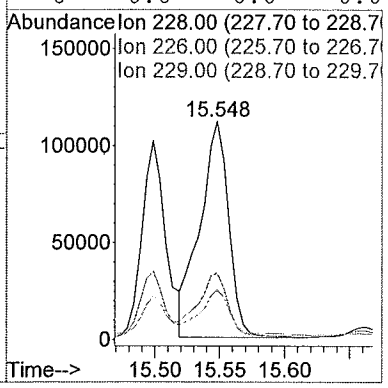


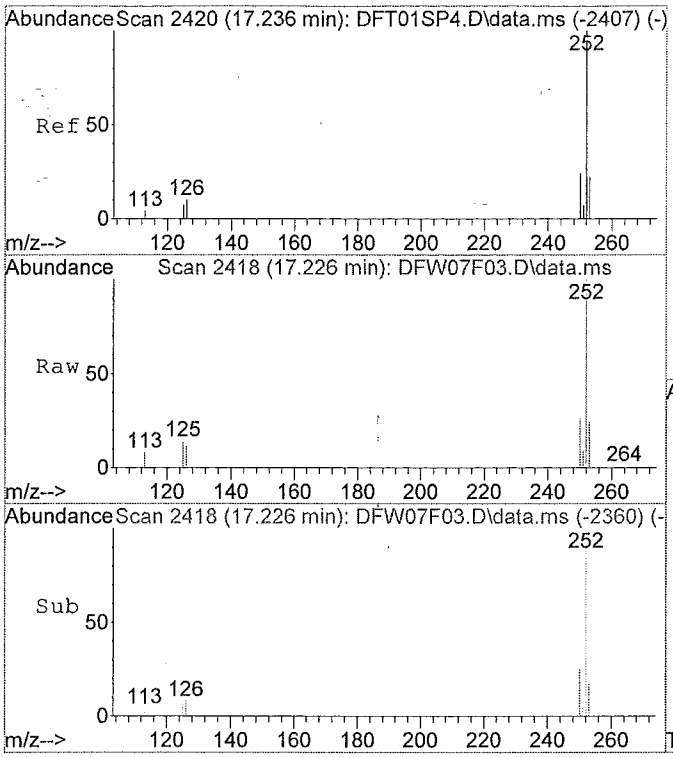


#18
Chrysene
Concen: 0.25 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:228 Resp: 174292

Ion	Ratio	Lower	Upper
228	100		
226	30.7	19.7	36.7
229	19.1	14.5	26.9
0	0.0	0.0	0.0

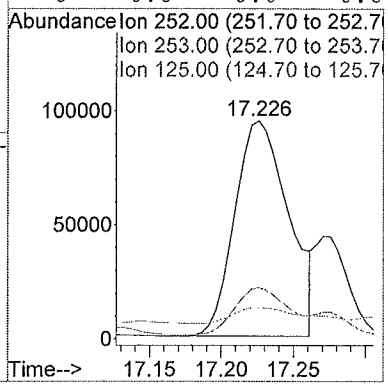


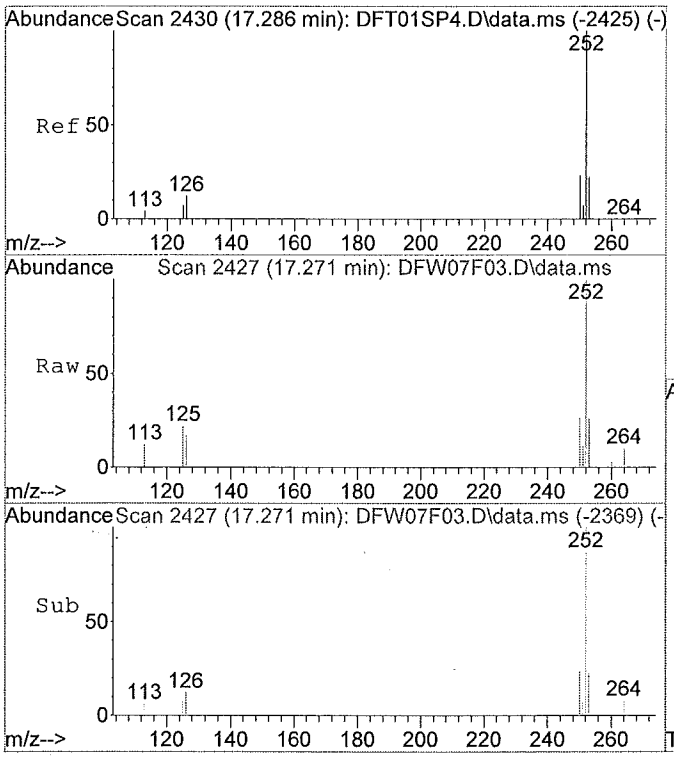


#20
Benzo(b)fluoranthene
Concen: 0.29 ug/ml
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:252 Resp: 245431

Ion	Ratio	Lower	Upper
252	100		
253	22.0	15.3	28.3
125	7.9	0.0	0.0#
0	0.0	0.0	0.0

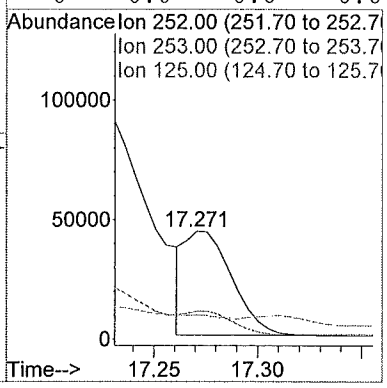


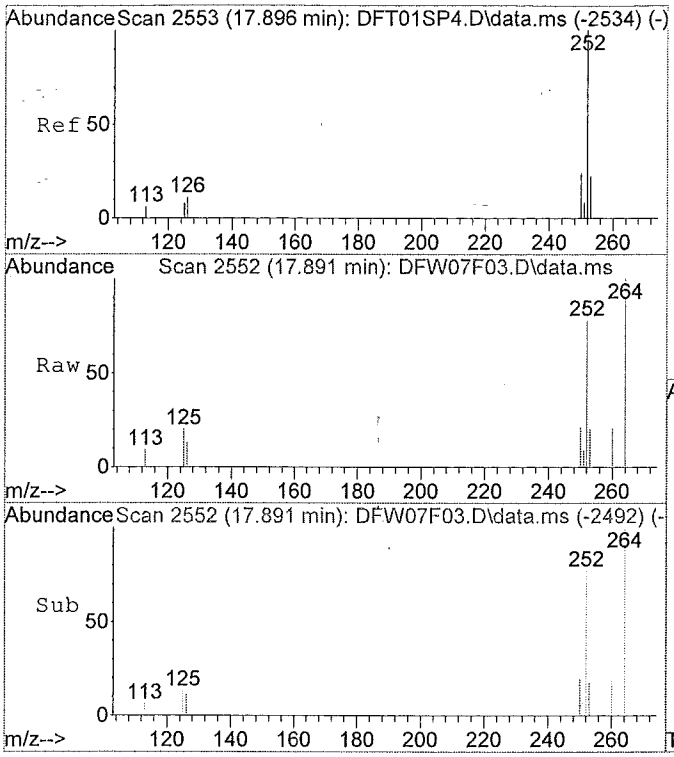


#21
Benzo(k)fluoranthene
Concen: 0.08 ug/ml m
RT: 17.27 min Scan# 2427
Delta R.T. -0.01 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:252 Resp: 68894

Ion	Ratio	Lower	Upper
252	100		
253	78.4	15.0	27.8#
125	28.2	0.0	0.0#
0	0.0	0.0	0.0

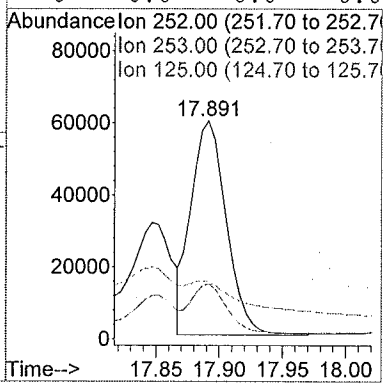


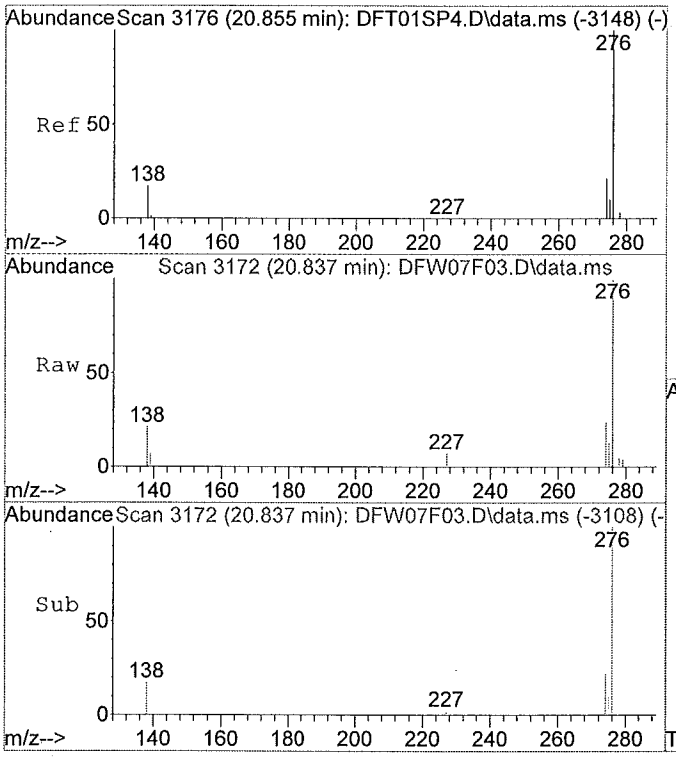


#22
Benzo(a)pyrene
Concen: 0.15 ug/ml
RT: 17.89 min Scan# 2552
Delta R.T. 0.00 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:252 Resp: 116602

Ion	Ratio	Lower	Upper
252	100		
253	24.3	15.0	27.8
125	0.0	0.0	0.0
0	0.0	0.0	0.0

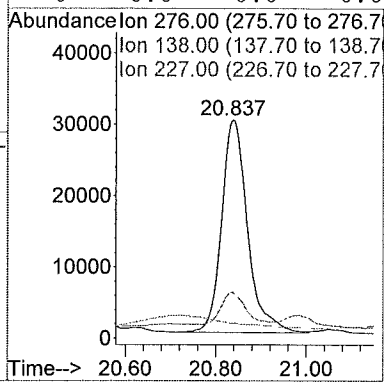


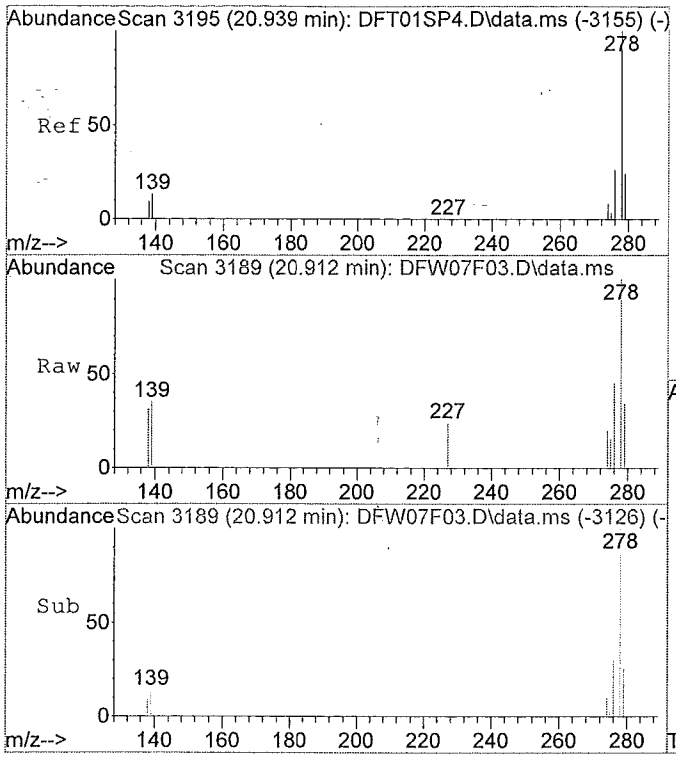


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.17 ug/ml
RT: 20.84 min Scan# 3172
Delta R.T. -0.01 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:276 Resp: 117765

Ion	Ratio	Lower	Upper
276	100		
138	14.8	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

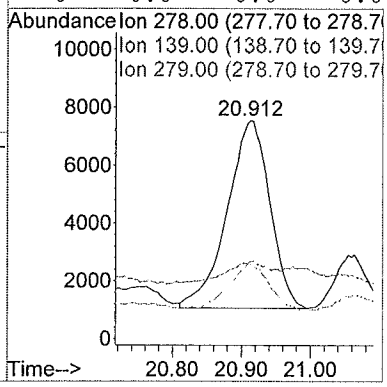


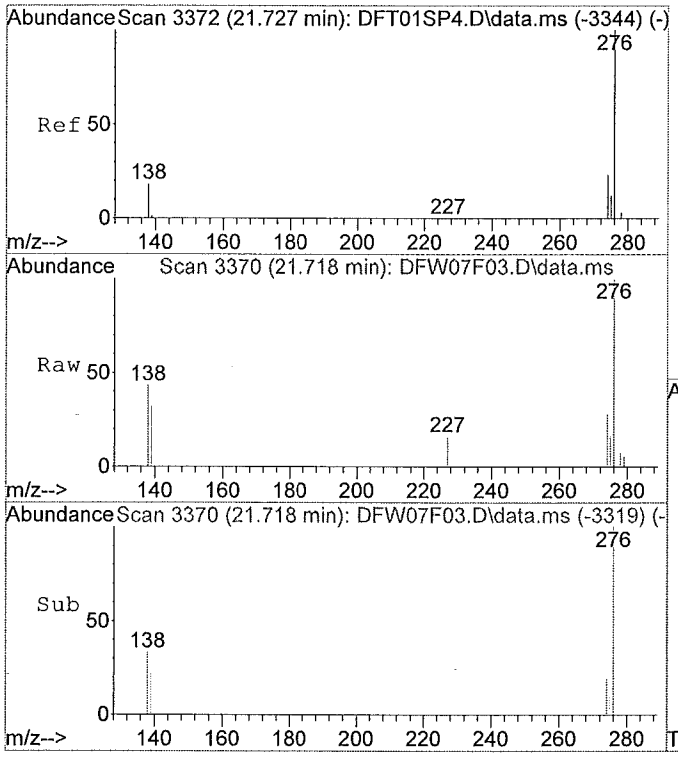


#24
Dibenzo(a,h)anthracene
Concen: 0.04 ug/ml
RT: 20.91 min Scan# 3189
Delta R.T. -0.02 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:278 Resp: 27850

Ion	Ratio	Lower	Upper
278	100		
139	8.2	0.0	0.0#
279	23.8	15.8	29.3
0	0.0	0.0	0.0

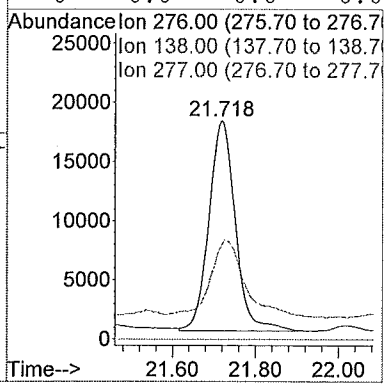




#25
Benzo(g,h,i)perylene
Concen: 0.10 ug/ml
RT: 21.72 min Scan# 3370
Delta R.T. -0.00 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:276 Resp: 78714

Ion	Ratio	Lower	Upper
276	100		
138	48.1	16.2	30.0#
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

F9L61

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293004

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFW08F04

Extraction: (Type) SONC

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/08/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	0.85	J
91-57-6	2-Methylnaphthalene	0.80	J
208-96-8	Acenaphthylene	3.9	U
83-32-9	Acenaphthene	3.9	U
86-73-7	Fluorene	3.9	U
87-86-5	Pentachlorophenol	7.9	U
85-01-8	Phenanthrene	1.1	J
120-12-7	Anthracene	3.9	U
206-44-0	Fluoranthene	1.5	J
129-00-0	Pyrene	1.5	J
56-55-3	Benzo(a)anthracene	1.2	J
218-01-9	Chrysene	1.2	J
205-99-2	Benzo(b)fluoranthene	1.4	J
207-08-9	Benzo(k)fluoranthene	3.9	U
50-32-8	Benzo(a)pyrene	3.9	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.9	U
53-70-3	Dibenzo(a,h)anthracene	3.9	U
191-24-2	Benzo(g,h,i)perylene	3.9	U

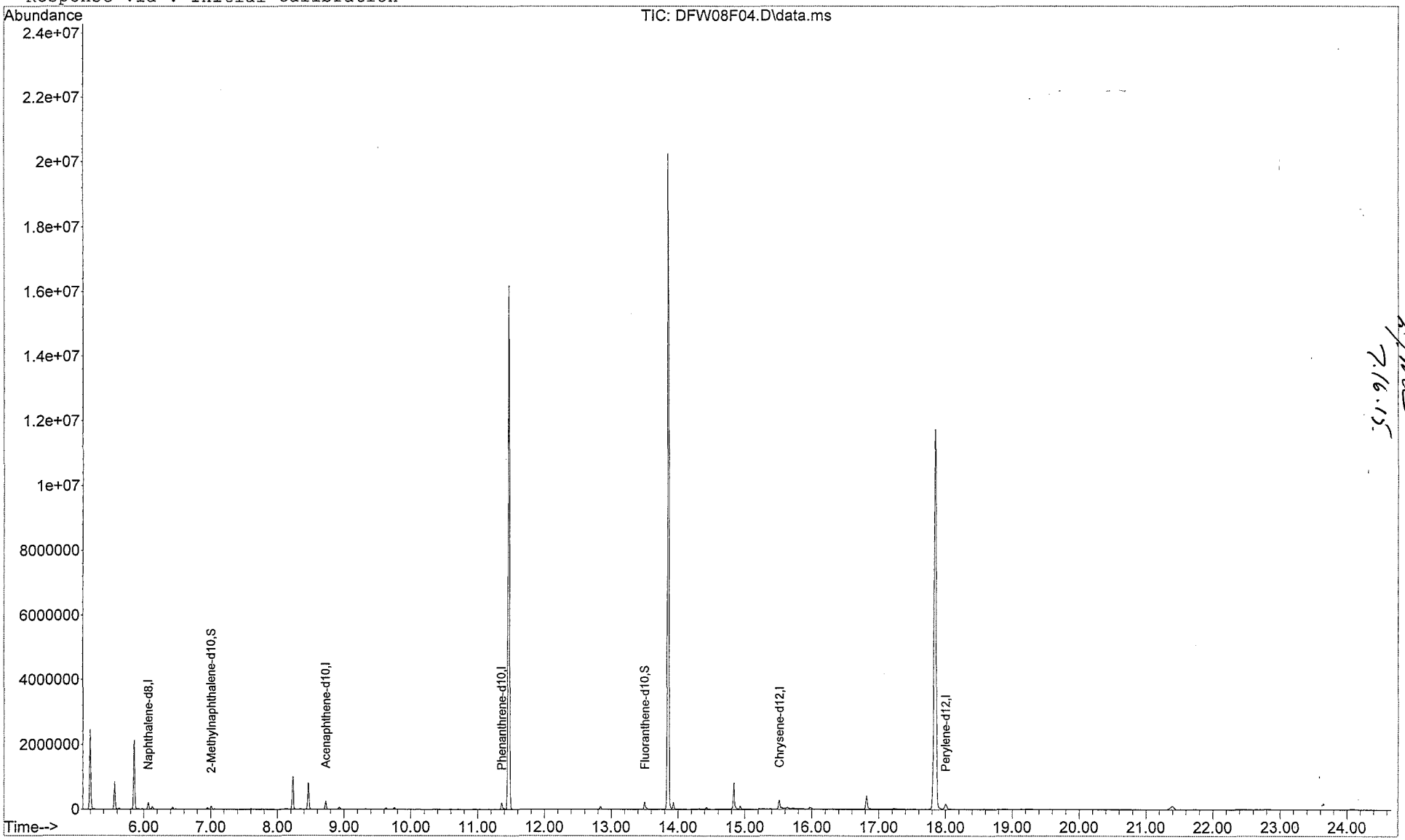
Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW08F04.D
Acq On : 06/08/2015 17:54
Sample : 1514293004 F9L61
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 7
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 14:54:39 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 Jul 15 14:52:03 2015
Response via : Initial Calibration



7/16/15

Quantitation Report

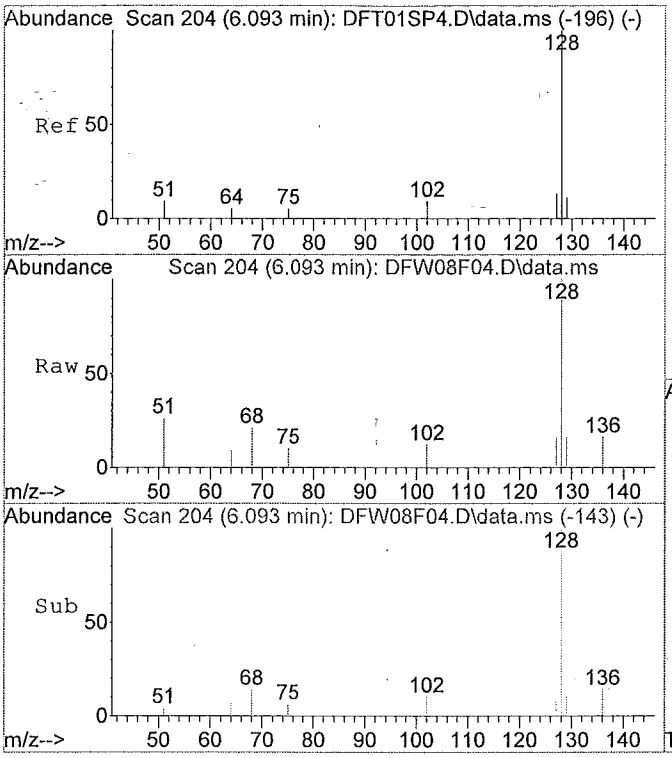
Data File : R:\D\2015\JUN15\08JUN15\DFW08F04.D Vial: 7
Acq On : 06/08/2015 17:54 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:54:39 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.06	136	234746	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	166759	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	283417	0.40 ug/ml
15) Chrysene-d12	15.51	240	293650	0.40 ug/ml
19) Perylene-d12	18.00	264	309007	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	108586	0.287ug/mL
13) Fluoranthene-d10	13.50	212	259005	0.334ug/mL

Target Compounds					Qvalue
2) Naphthalene	6.09	128	13281	0.022ug/ml	95
4) 2-Methylnaphthalene	7.05	142	8018	0.020ug/ml	97
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	21969	0.027ug/ml	96
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.52	202	35208	0.038ug/ml	95
16) Pyrene	13.88	202	35239	0.038ug/ml	65
17) Benzo(a)anthracene	15.50	228	23310	0.030ug/ml	87
18) Chrysene	15.55	228	26345	0.032ug/ml	85
20) Benzo(b)fluoranthene	17.22	252	33398	0.035ug/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	

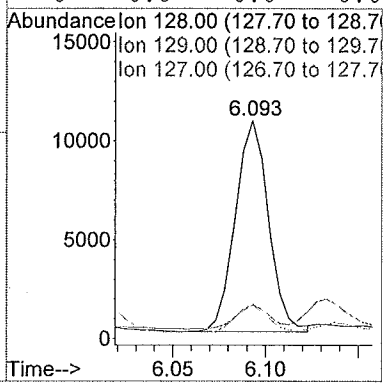
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

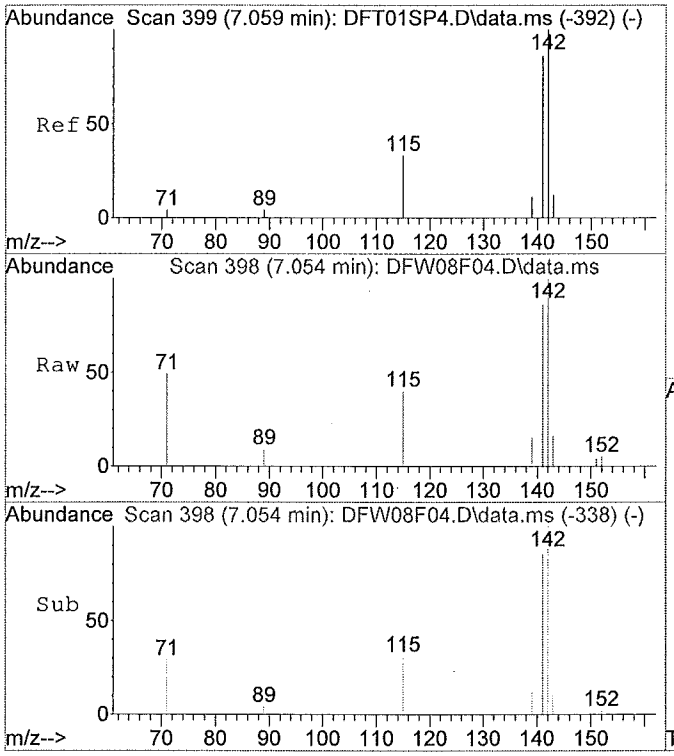


#2
Naphthalene
Concen: 0.02 ug/ml
RT: 6.09 min Scan# 204
Delta R.T. 0.00 min
Lab File: DFW08F04.D
Acq: 06/08/2015 17:54

Tgt Ion:128 Resp: 13281

Ion	Ratio	Lower	Upper
128	100		
129	13.2	0.0	0.0#
127	13.7	11.1	20.5
0	0.0	0.0	0.0

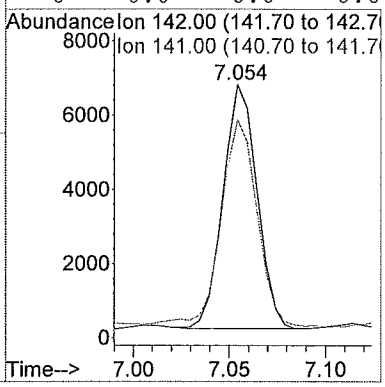


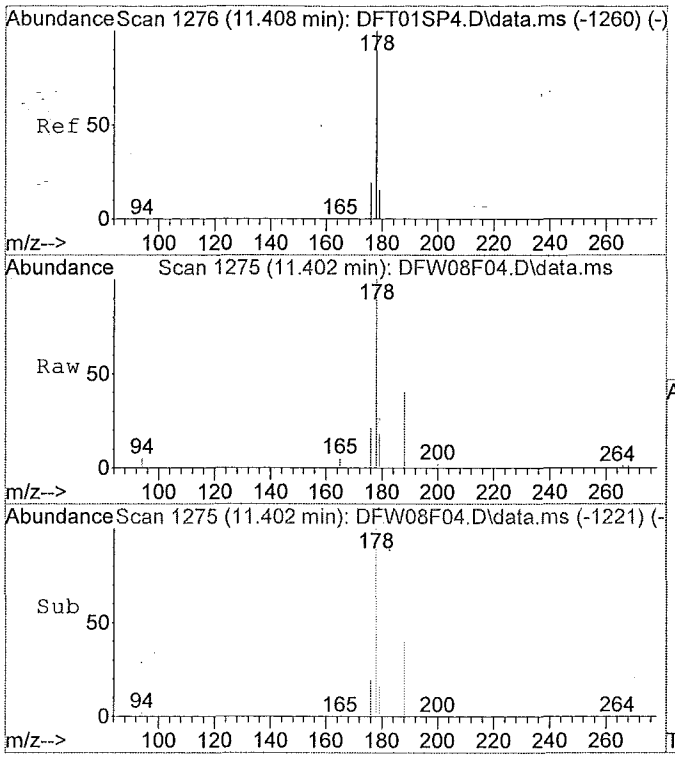


#4
2-Methylnaphthalene
Concen: 0.02 ug/ml
RT: 7.05 min Scan# 398
Delta R.T. -0.00 min
Lab File: DFW08F04.D
Acq: 06/08/2015 17:54

Tgt Ion:142 Resp: 8018

Ion	Ratio	Lower	Upper
142	100		
141	89.7	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

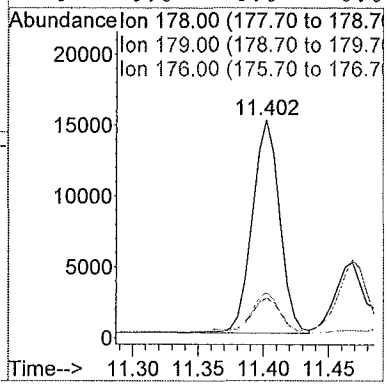


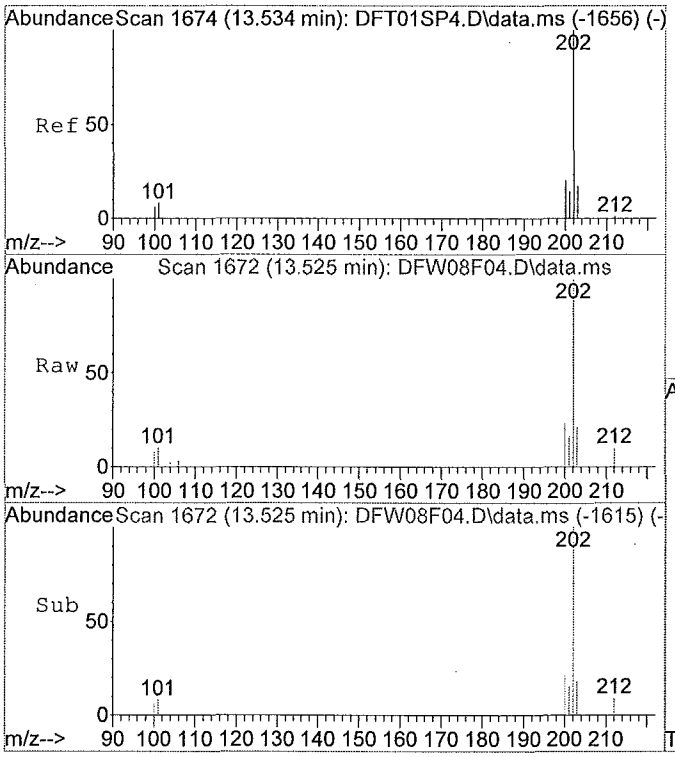


#11
Phenanthrene
Concen: 0.03 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFW08F04.D
Acq: 06/08/2015 17:54

Tgt Ion:178 Resp: 21969

Ion	Ratio	Lower	Upper
178	100		
179	17.9	11.1	20.5
176	18.5	14.1	26.1
0	0.0	0.0	0.0

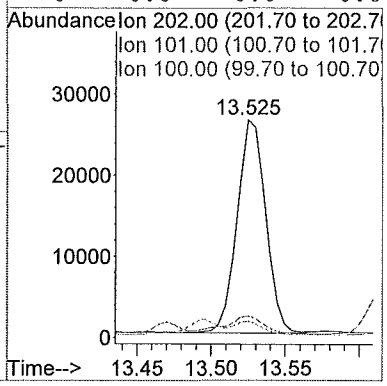


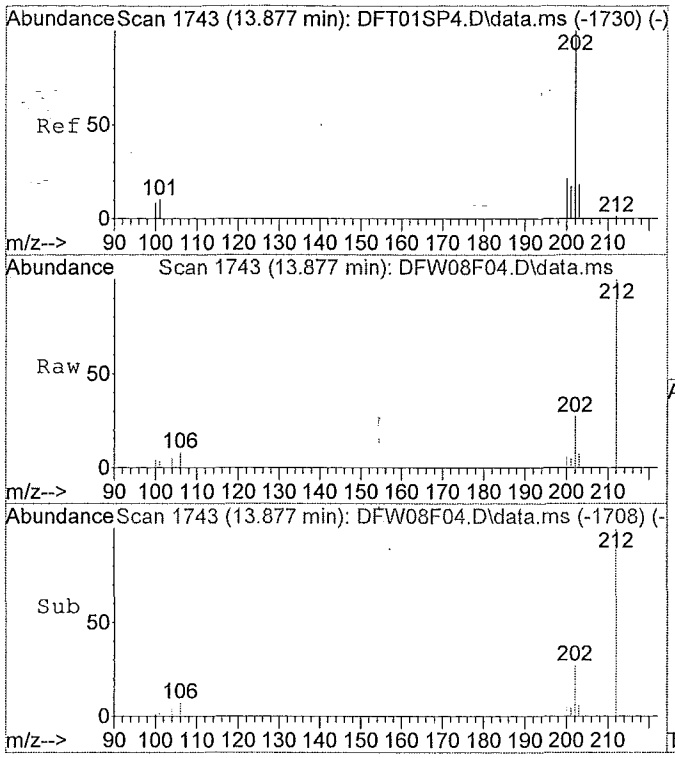


#14
Fluoranthene
Concen: 0.04 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DFW08F04.D
Acq: 06/08/2015 17:54

Tgt Ion:202 Resp: 35208

Ion	Ratio	Lower	Upper
202	100		
101	11.7	9.4	17.6
100	6.4	0.0	0.0#
0	0.0	0.0	0.0

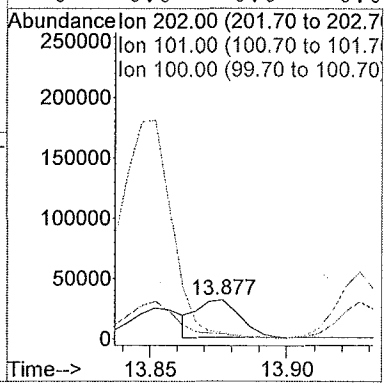


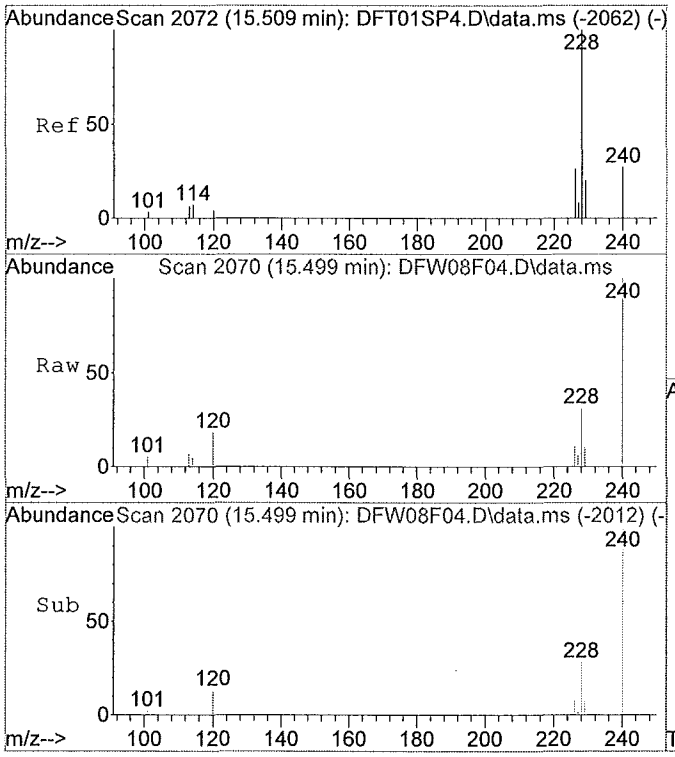


#16
Pyrene
Concen: 0.04 ug/ml
RT: 13.88 min Scan# 1743
Delta R.T. 0.00 min
Lab File: DFW08F04.D
Acq: 06/08/2015 17:54

Tgt Ion:202 Resp: 35239

Ion	Ratio	Lower	Upper
202	100		
101	0.0	10.6	19.6#
100	0.0	9.4	17.4#
0	0.0	0.0	0.0

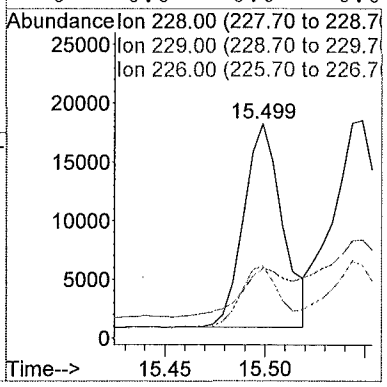


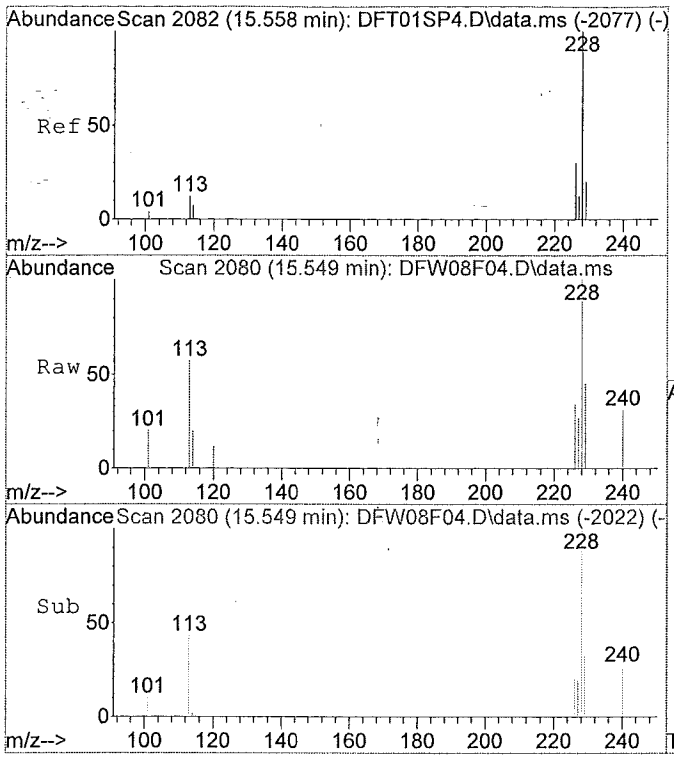


#17
Benzo(a)anthracene
Concen: 0.03 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFW08F04.D
Acq: 06/08/2015 17:54

Tgt Ion:228 Resp: 23310

Ion	Ratio	Lower	Upper
228	100		
229	29.0	14.5	26.9#
226	30.9	18.5	34.3
0	0.0	0.0	0.0

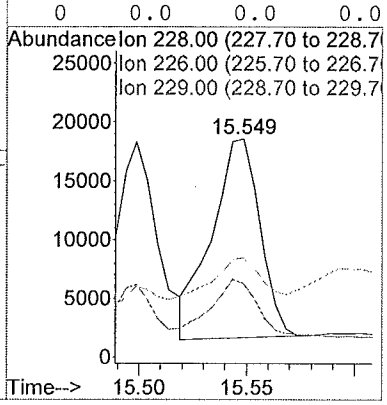


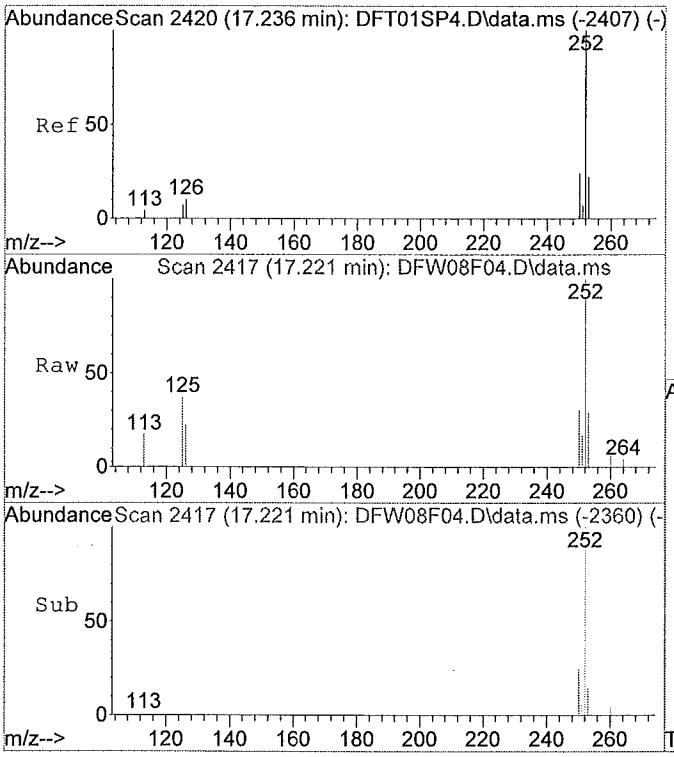


#18
Chrysene
Concen: 0.03 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFW08F04.D
Acq: 06/08/2015 17:54

Tgt Ion:228 Resp: 26345

Ion	Ratio	Lower	Upper
228	100		
226	39.9	19.7	36.7#
229	18.4	14.5	26.9
0	0.0	0.0	0.0

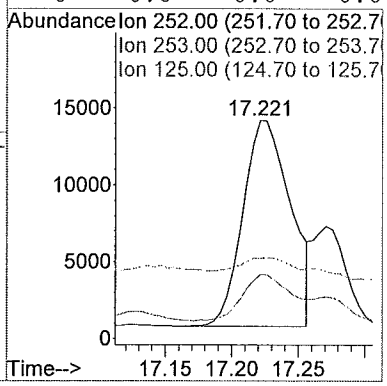




#20
Benzo(b)fluoranthene
Concen: 0.03 ug/ml
RT: 17.22 min Scan# 2417
Delta R.T. -0.01 min
Lab File: DFW08F04.D
Acq: 06/08/2015 17:54

Tgt Ion:252 Resp: 33398

Ion	Ratio	Lower	Upper
252	100		
253	22.8	15.3	28.3
125	22.5	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:

F9L62

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293005

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DFW09F05

Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/08/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.9	U
91-57-6	2-Methylnaphthalene	3.9	U
208-96-8	Acenaphthylene	3.9	U
83-32-9	Acenaphthene	10.	
86-73-7	Fluorene	3.9	U
87-86-5	Pentachlorophenol	3.4	J
85-01-8	Phenanthrene	1.6	J
120-12-7	Anthracene	3.9	U
206-44-0	Fluoranthene	3.1	J
129-00-0	Pyrene	6.5	
56-55-3	Benzo(a)anthracene	2.3	J
218-01-9	Chrysene	3.1	J
205-99-2	Benzo(b)fluoranthene	3.2	J
207-08-9	Benzo(k)fluoranthene	0.97	J
50-32-8	Benzo(a)pyrene	1.7	J
193-39-5	Indeno(1,2,3-cd)pyrene	1.9	J
53-70-3	Dibenzo(a,h)anthracene	3.9	U
191-24-2	Benzo(g,h,i)perylene	1.5	J

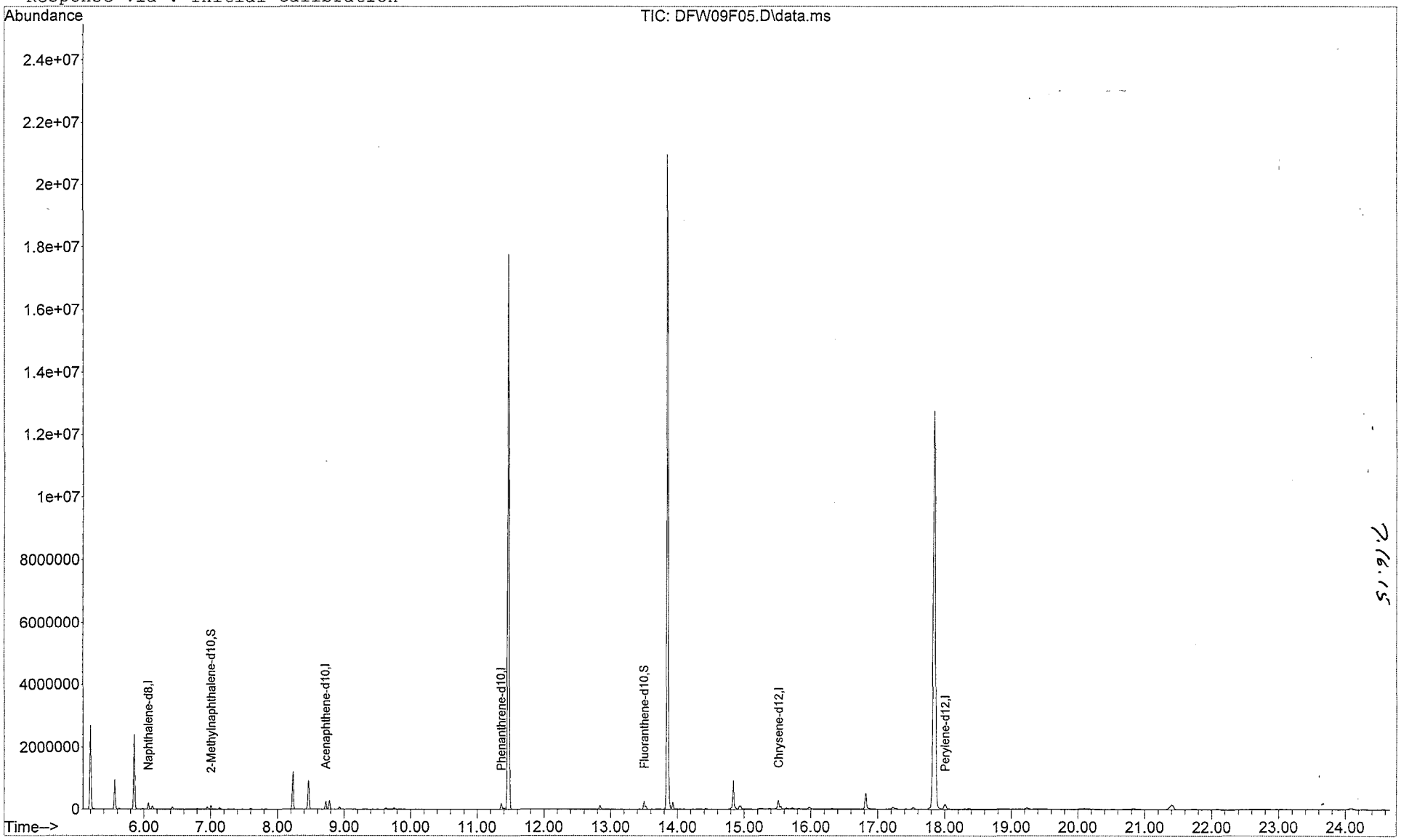
Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW09F05.D
Acq On : 06/08/2015 18:24
Sample : 1514293005 F9L62
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 8
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 14:55:54 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 Jul 15 14:52:03 2015
Response via : Initial Calibration



7.16.15

Quantitation Report

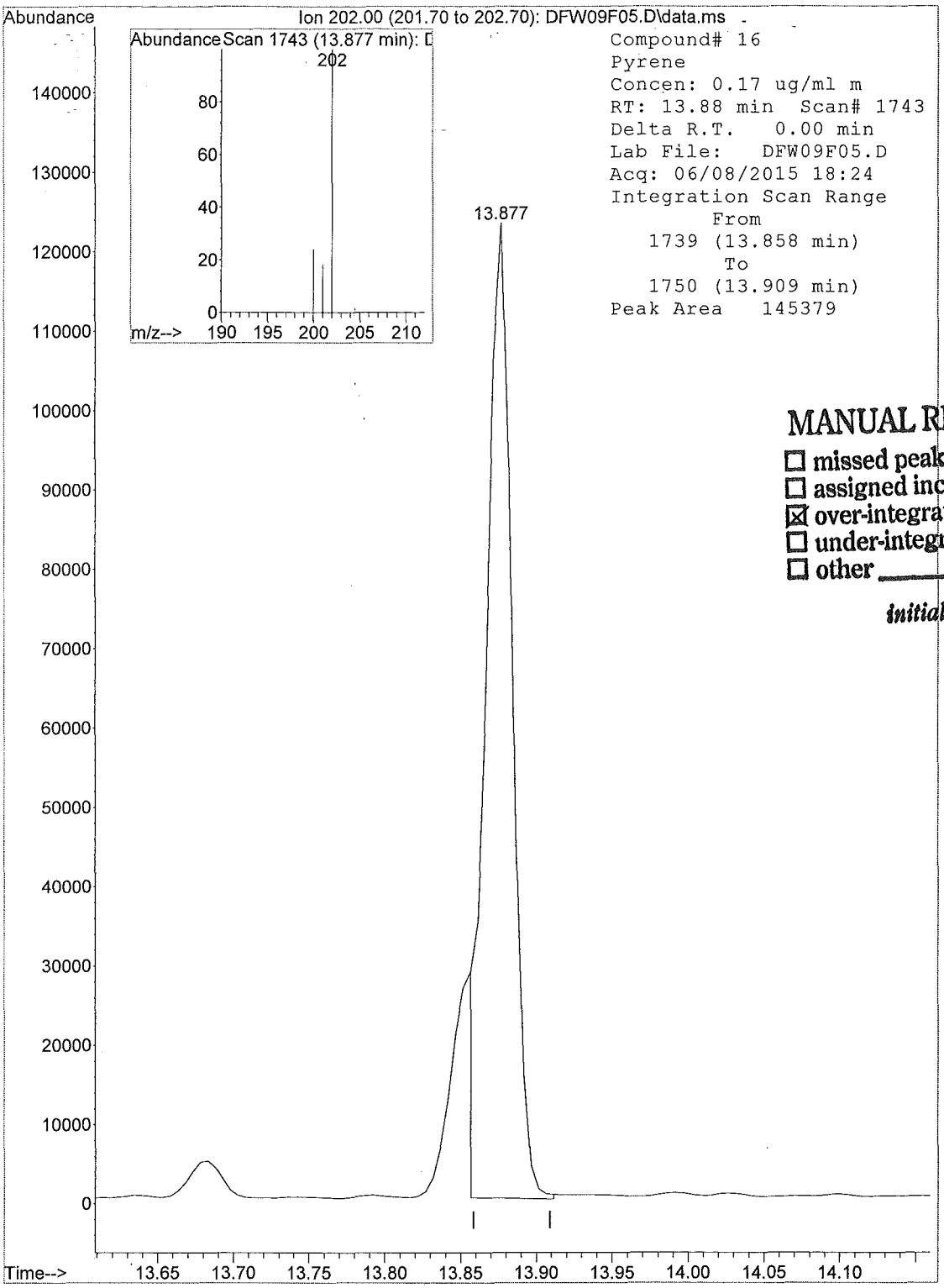
Data File : R:\D\2015\JUN15\08JUN15\DFW09F05.D Vial: 8
Acq On : 06/08/2015 18:24 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:55:54 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.06	136	228775	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	164234	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	290049	0.40 ug/ml	
15) Chrysene-d12	15.51	240	279640	0.40 ug/ml	
19) Perylene-d12	18.01	264	301654	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	124811	0.338ug/mL	
13) Fluoranthene-d10	13.50	212	292786	0.369ug/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	8.78	153	122812	0.267ug/ml	99
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	11.02	266	3752	0.086ug/ml	100
11) Phenanthrene	11.40	178	34702	0.042ug/ml	96
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.53	202	75091	0.079ug/ml	97
16) Pyrene	13.88	202	145379	0.166ug/ml m	17.16.15
17) Benzo(a)anthracene	15.50	228	43021	0.058ug/ml	88
18) Chrysene	15.55	228	61627	0.078ug/ml	96
20) Benzo(b)fluoranthene	17.23	252	75743	0.081ug/ml	98
21) Benzo(k)fluoranthene	17.27	252	24198	0.025ug/ml m	97 7.16.15
22) Benzo(a)pyrene	17.89	252	39271	0.044ug/ml	93
23) Indeno(1,2,3-c,d)pyrene	20.84	276	37555	0.048ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	21.72	276	34997	0.040ug/ml	1

(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 Pyrene



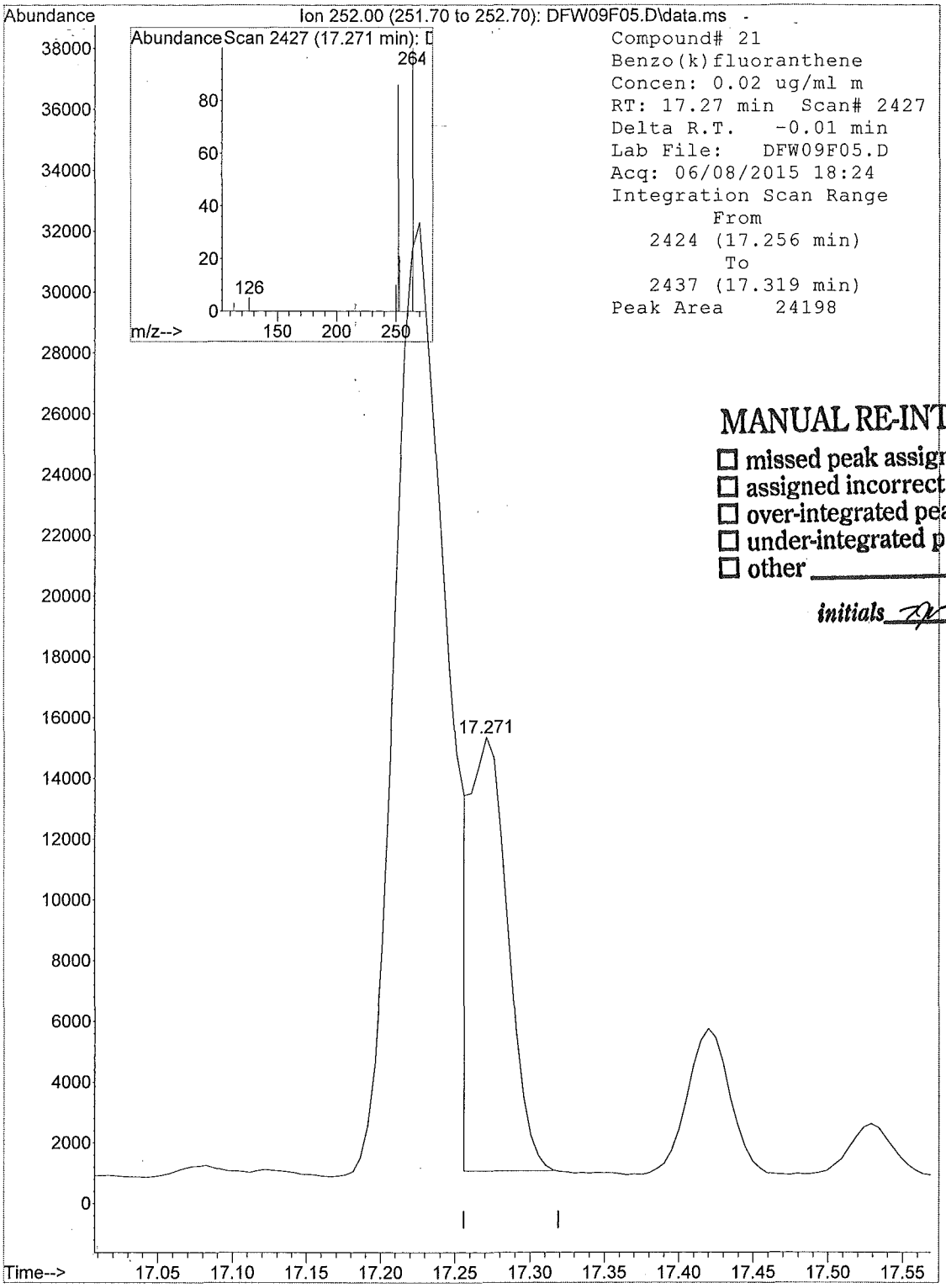
Compound# 16
Pyrene
Concen: 0.17 ug/ml m
RT: 13.88 min Scan# 1743
Delta R.T. 0.00 min
Lab File: DFW09F05.D
Acq: 06/08/2015 18:24
Integration Scan Range
From
1739 (13.858 min)
To
1750 (13.909 min)
Peak Area 145379

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials [illegible] *date* 7.16.15

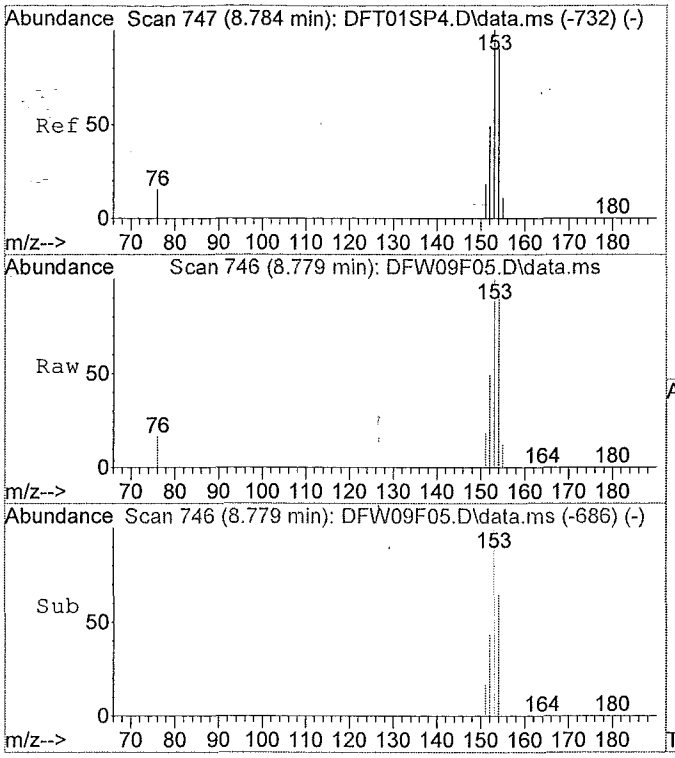
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

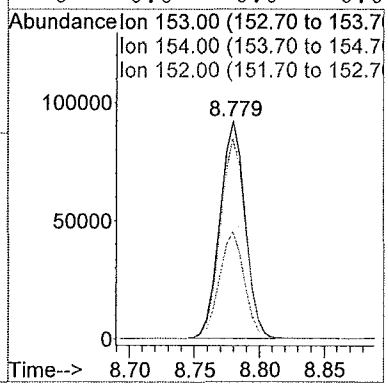
initials [illegible] *date* 7.16.15

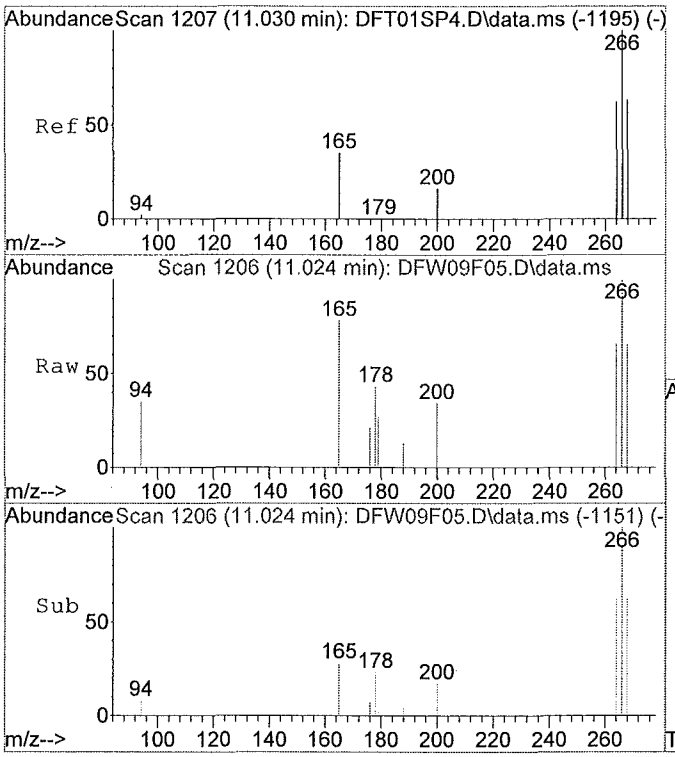


#7
Acenaphthene
Concen: 0.27 ug/ml
RT: 8.78 min Scan# 746
Delta R.T. -0.00 min
Lab File: DFW09F05.D
Acq: 06/08/2015 18:24

Tgt Ion:153 Resp: 122812

Ion	Ratio	Lower	Upper
153	100		
154	91.9	65.1	120.9
152	48.9	35.2	65.4
0	0.0	0.0	0.0

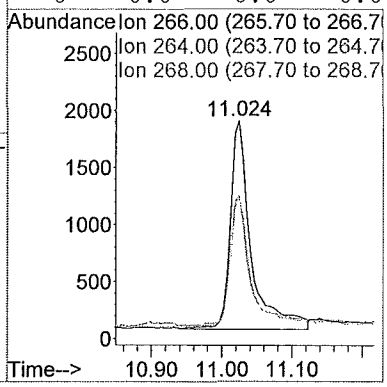


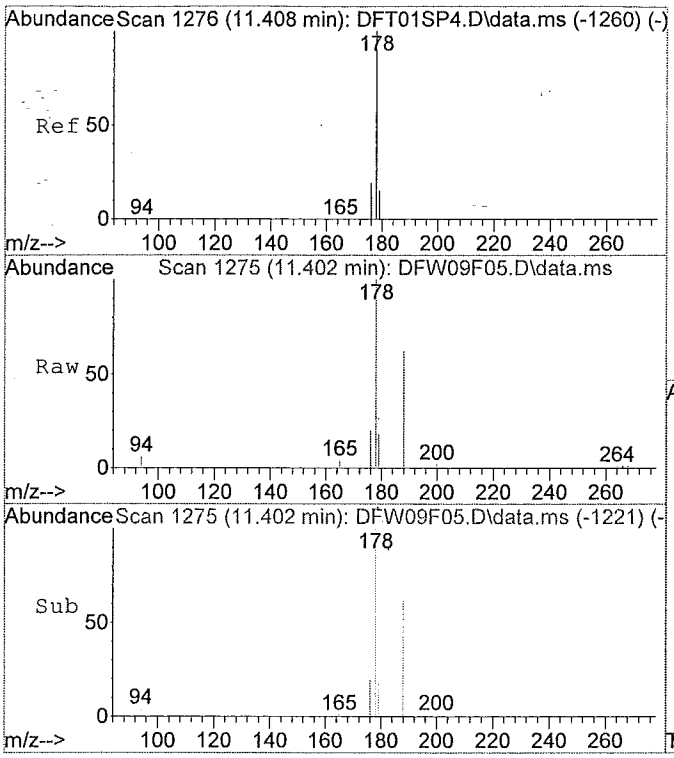


#10
Pentachlorophenol
Concen: 0.09 ug/ml
RT: 11.02 min Scan# 1206
Delta R.T. 0.00 min
Lab File: DFW09F05.D
Acq: 06/08/2015 18:24

Tgt Ion:266 Resp: 3752

Ion	Ratio	Lower	Upper
266	100		
264	62.7	0.0	0.0#
268	65.6	0.0	0.0#
0	0.0	0.0	0.0

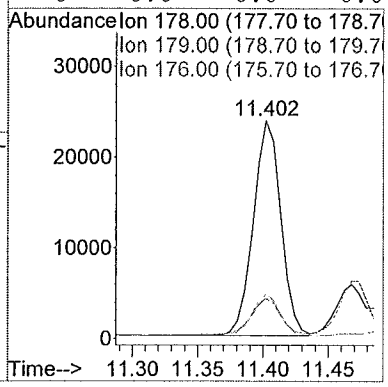


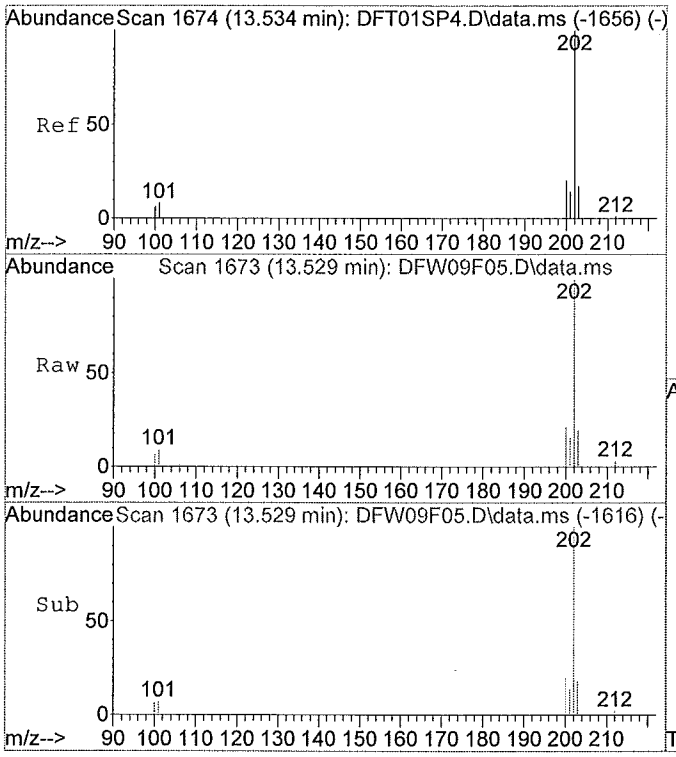


#11
Phenanthrene
Concen: 0.04 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFW09F05.D
Acq: 06/08/2015 18:24

Tgt Ion:178 Resp: 34702

Ion	Ratio	Lower	Upper
178	100		
179	18.7	11.1	20.5
176	19.0	14.1	26.1
0	0.0	0.0	0.0

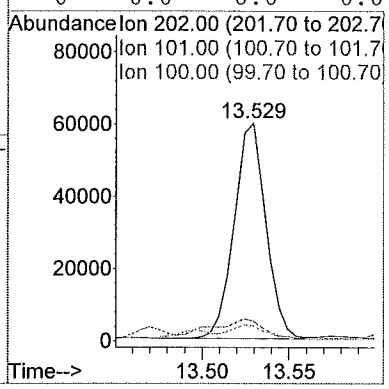


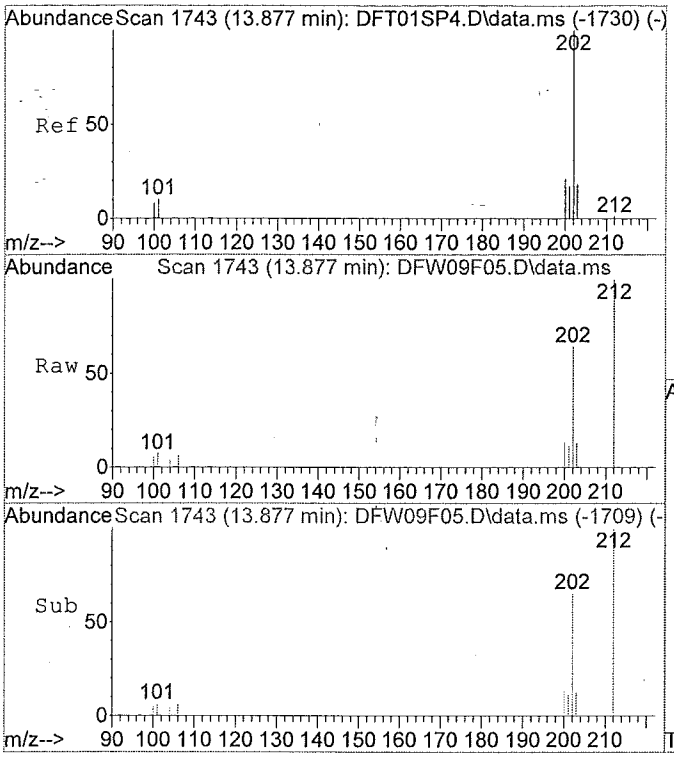


#14
Fluoranthene
Concen: 0.08 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFW09F05.D
Acq: 06/08/2015 18:24

Tgt Ion:202 Resp: 75091

Ion	Ratio	Lower	Upper
202	100		
101	14.8	9.4	17.6
100	7.3	0.0	0.0#
0	0.0	0.0	0.0

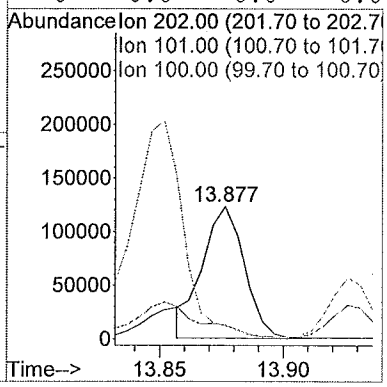


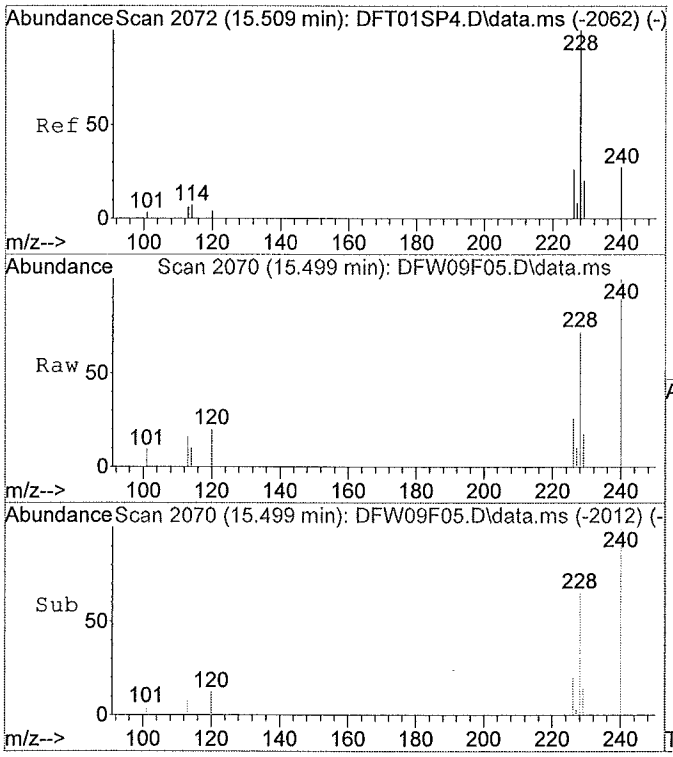


#16
Pyrene
Concen: 0.17 ug/ml m
RT: 13.88 min Scan# 1743
Delta R.T. 0.00 min
Lab File: DFW09F05.D
Acq: 06/08/2015 18:24

Tgt Ion:202 Resp: 145379

Ion	Ratio	Lower	Upper
202	100		
101	49.1	10.6	19.6#
100	228.3	9.4	17.4#
0	0.0	0.0	0.0

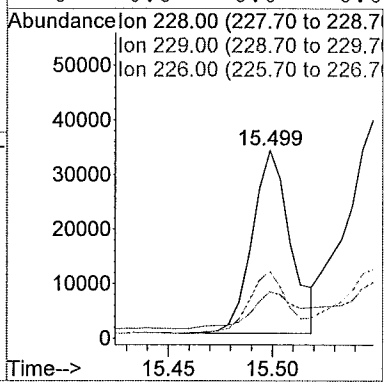


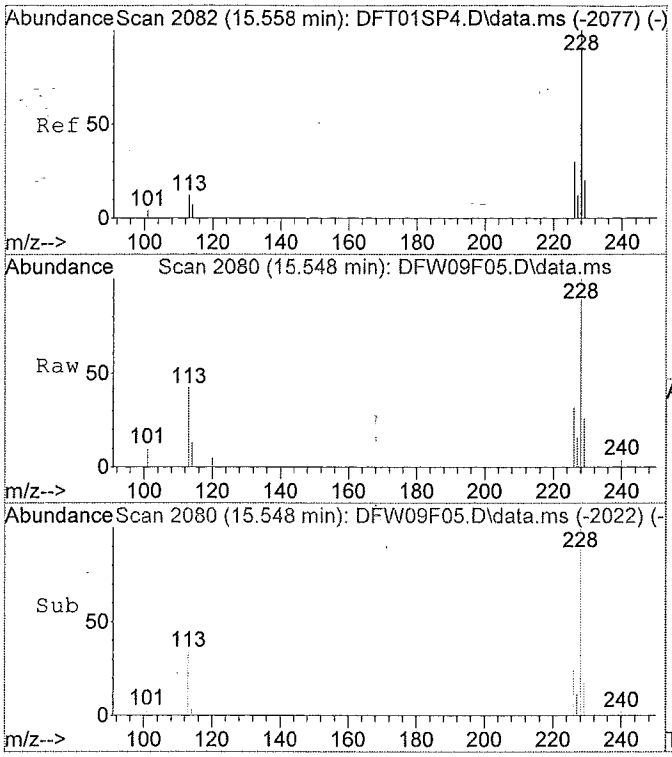


#17
Benzo(a)anthracene
Concen: 0.06 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFW09F05.D
Acq: 06/08/2015 18:24

Tgt Ion:228 Resp: 43021

Ion	Ratio	Lower	Upper
228	100		
229	25.3	14.5	26.9
226	32.9	18.5	34.3
0	0.0	0.0	0.0

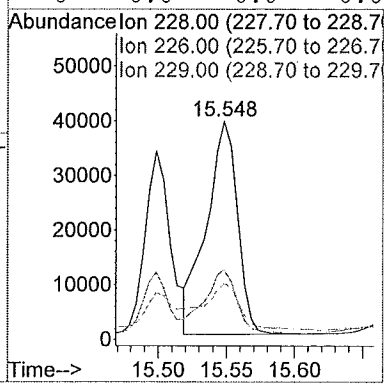


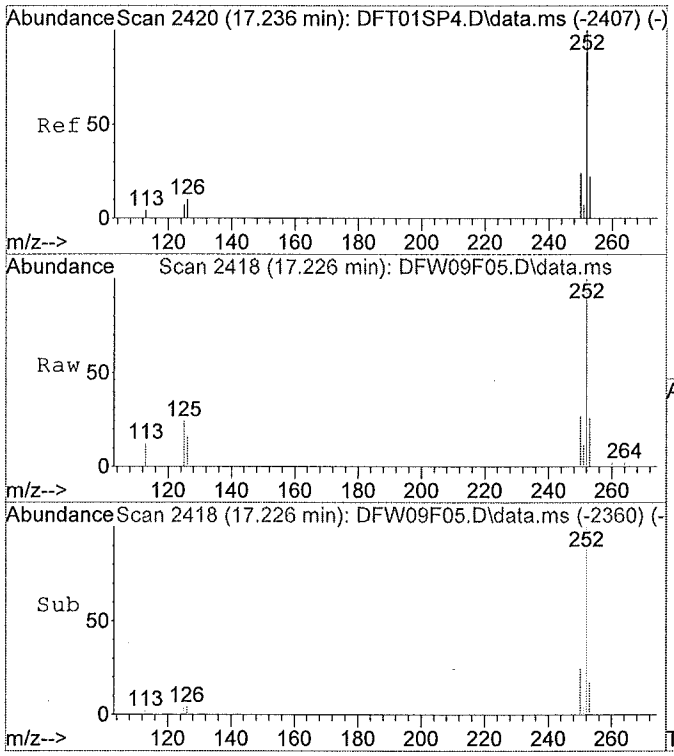


#18
Chrysene
Concen: 0.08 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFW09F05.D
Acq: 06/08/2015 18:24

Tgt Ion:228 Resp: 61627

Ion	Ratio	Lower	Upper
228	100		
226	31.1	19.7	36.7
229	21.9	14.5	26.9
0	0.0	0.0	0.0

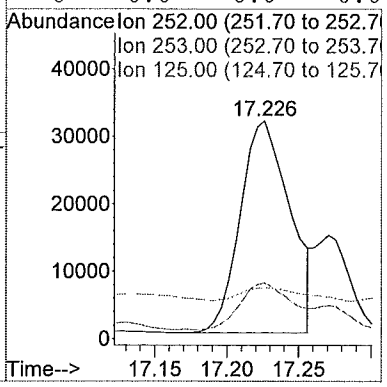


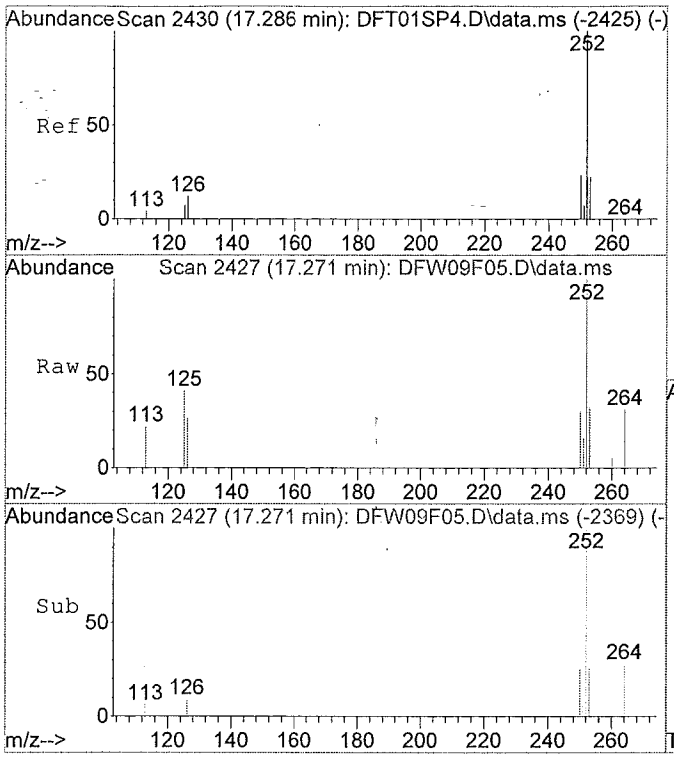


#20
Benzo(b)fluoranthene
Concen: 0.08 ug/ml
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DFW09F05.D
Acq: 06/08/2015 18:24

Tgt Ion:252 Resp: 75743

Ion	Ratio	Lower	Upper
252	100		
253	22.6	15.3	28.3
125	14.2	0.0	0.0#
0	0.0	0.0	0.0

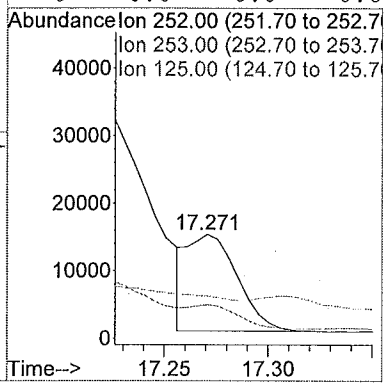


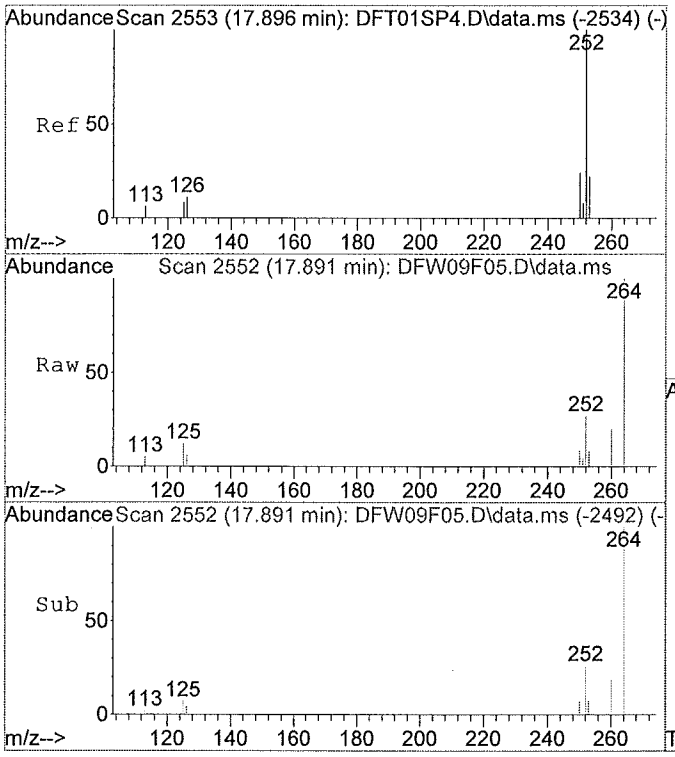


#21
Benzo(k)fluoranthene
Concen: 0.02 ug/ml m
RT: 17.27 min Scan# 2427
Delta R.T. -0.01 min
Lab File: DFW09F05.D
Acq: 06/08/2015 18:24

Tgt Ion:252 Resp: 24198

Ion	Ratio	Lower	Upper
252	100		
253	70.9	15.0	27.8#
125	24.9	0.0	0.0#
0	0.0	0.0	0.0

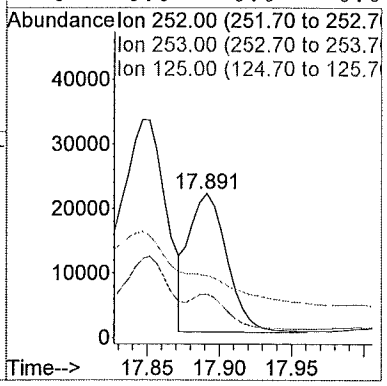


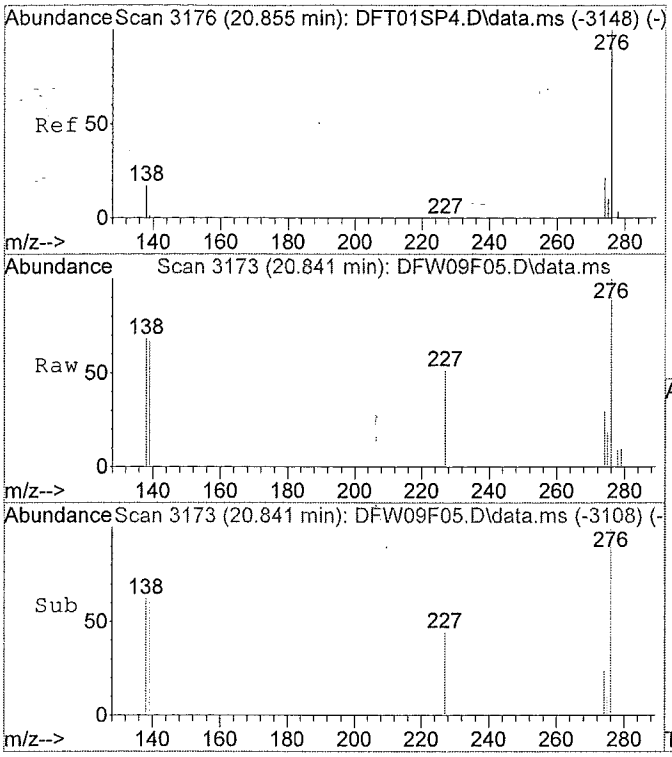


#22
Benzo(a)pyrene
Concen: 0.04 ug/ml
RT: 17.89 min Scan# 2552
Delta R.T. 0.00 min
Lab File: DFW09F05.D
Acq: 06/08/2015 18:24

Tgt Ion:252 Resp: 39271

Ion	Ratio	Lower	Upper
252	100		
253	24.8	15.0	27.8
125	0.0	0.0	0.0
0	0.0	0.0	0.0

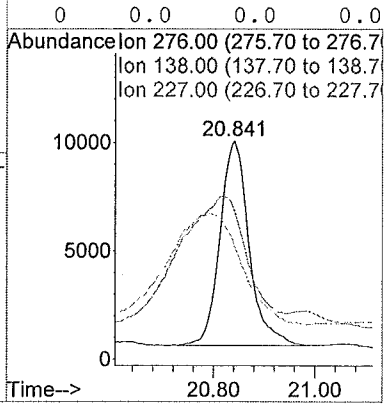


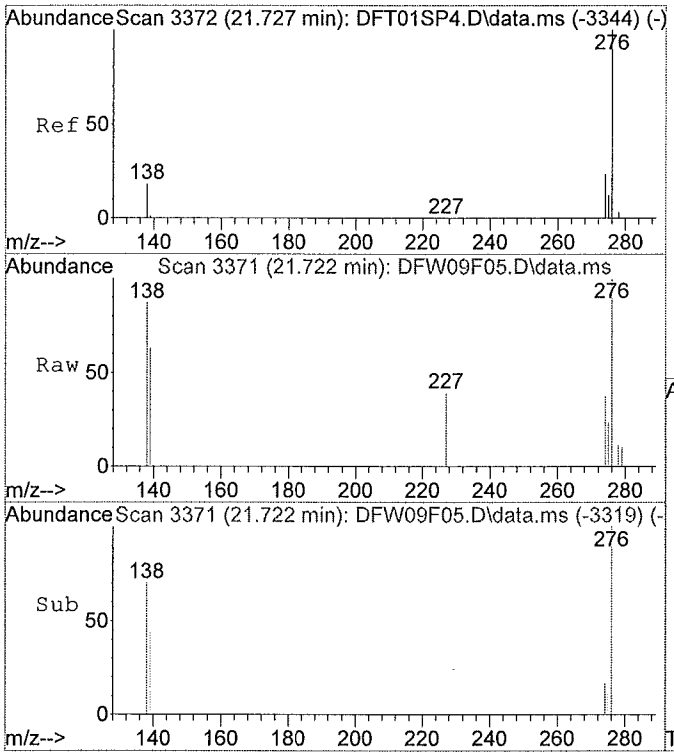


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.05 ug/ml
RT: 20.84 min Scan# 3173
Delta R.T. -0.01 min
Lab File: DFW09F05.D
Acq: 06/08/2015 18:24

Tgt Ion:276 Resp: 37555

Ion	Ratio	Lower	Upper
276	100		
138	0.0	0.0	0.0
227	0.0	0.0	0.0
0	0.0	0.0	0.0

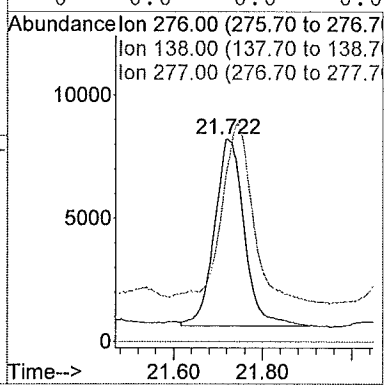




#25
Benzo(g,h,i)perylene
Concen: 0.04 ug/ml
RT: 21.72 min Scan# 3371
Delta R.T. 0.00 min
Lab File: DFW09F05.D
Acq: 06/08/2015 18:24

Tgt Ion:276 Resp: 34997

Ion	Ratio	Lower	Upper
276	100		
138	100.0	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.

F9L63

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293006

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFN08F06

Extraction: (Type) SONC

% Moisture: 22. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/16/2015

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

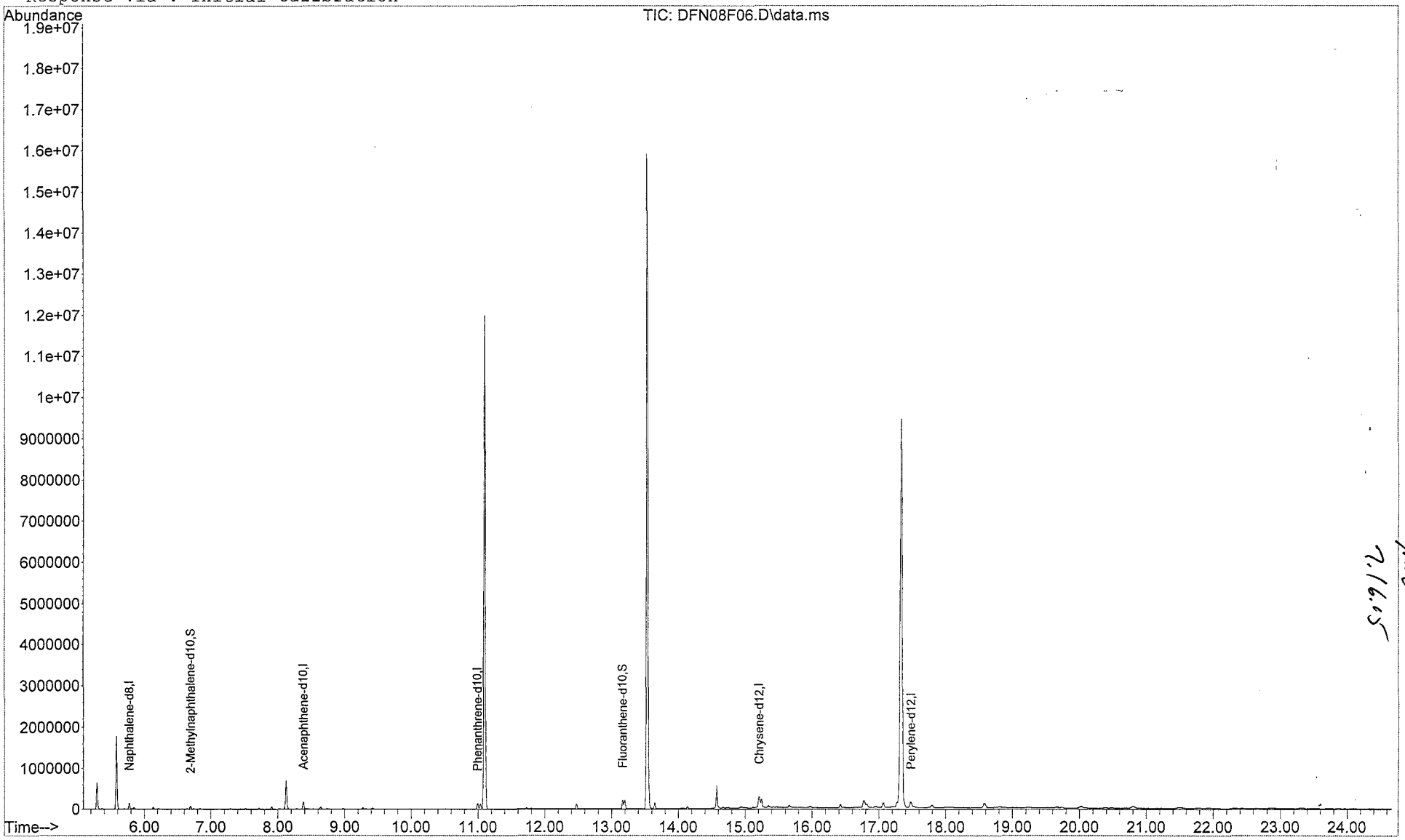
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	4.2	U
91-57-6	2-Methylnaphthalene	4.2	U
208-96-8	Acenaphthylene	1.7	J
83-32-9	Acenaphthene	4.2	U
86-73-7	Fluorene	4.2	U
87-86-5	Pentachlorophenol	8.6	U
85-01-8	Phenanthrene	9.2	
120-12-7	Anthracene	2.7	J
206-44-0	Fluoranthene	12.	
129-00-0	Pyrene	14.	
56-55-3	Benzo(a)anthracene	9.4	
218-01-9	Chrysene	12.	
205-99-2	Benzo(b)fluoranthene	13.	
207-08-9	Benzo(k)fluoranthene	3.3	J
50-32-8	Benzo(a)pyrene	7.3	
193-39-5	Indeno(1,2,3-cd)pyrene	7.8	
53-70-3	Dibenzo(a,h)anthracene	1.9	J
191-24-2	Benzo(g,h,i)perylene	6.5	

Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN08F06.D
Vial: 18
Acq On : 07/16/2015 11:46
Operator: DJC
Sample : 1514293006 F9L63
Inst : 5975-D
Misc : . SOIL SIM
Injection volume : 1uL
MS Integration Params: rteint.p
Column Identifier: DB-5MS

Quant Time: Jul 16 14:04:59 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 Jul 15 14:52:03 2015
Response via : Initial Calibration



7.16.15

Quantitation Report

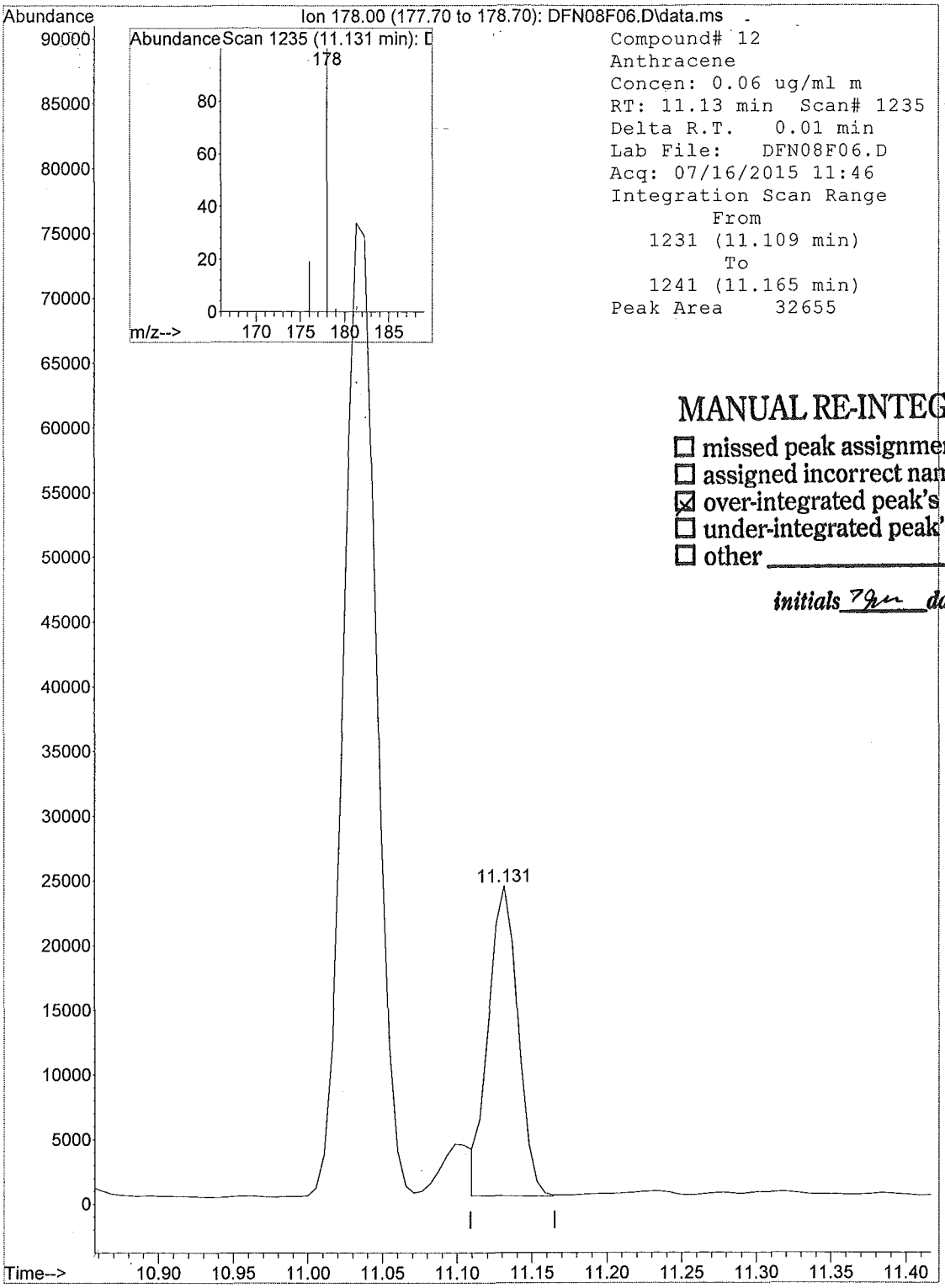
Data File : R:\D\2015\JUL15\16JUL15DPM\DFN08F06.D Vial: 18
Acq On : 07/16/2015 11:46 Operator: DJC
Sample : 1514293006 F9L63 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 16 14:04:59 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		
1) Naphthalene-d8	5.78	136	159140	0.40 ug/ml		
5) Acenaphthene-d10	8.38	164	114437	0.40 ug/ml		
9) Phenanthrene-d10	10.99	188	185828	0.40 ug/ml		
15) Chrysene-d12	15.21	240	204516	0.40 ug/ml		
19) Perylene-d12	17.48	264	225379	0.40 ug/ml		
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	6.69	152	80034	0.312ug/mL		
13) Fluoranthene-d10	13.17	212	198451	0.391ug/mL		
Target Compounds						Qvalue
2) Naphthalene	0.00	128		Not Detected		
4) 2-Methylnaphthalene	0.00	142		Not Detected		
6) Acenaphthylene	8.14	152	19679	0.039ug/ml		79
7) Acenaphthene	0.00	153		Not Detected		
8) Fluorene	0.00	166		Not Detected		
10) Pentachlorophenol	0.00	266		Not Detected		
11) Phenanthrene	11.03	178	115561	0.216ug/ml		99
12) Anthracene	11.13	178	32655	0.063ug/ml	m	91 7.16.15
14) Fluoranthene	13.20	202	165972	0.273ug/ml		98
16) Pyrene	13.56	202	212766	0.332ug/ml	m	1 7.16.15
17) Benzo(a)anthracene	15.20	228	120341	0.221ug/ml		90
18) Chrysene	15.25	228	158598	0.275ug/ml		96
20) Benzo(b)fluoranthene	16.77	252	216987	0.309ug/ml		100
21) Benzo(k)fluoranthene	16.82	252	56567	0.078ug/ml	m	99 7.16.15
22) Benzo(a)pyrene	17.37	252	115018	0.171ug/ml		98
23) Indeno(1,2,3-c,d)pyrene	20.02	276	107969	0.184ug/ml		100
24) Dibenzo(a,h)anthracene	20.09	278	28990	0.045ug/ml		91
25) Benzo(g,h,i)perylene	20.80	276	101164	0.153ug/ml		70

(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 Anthracene

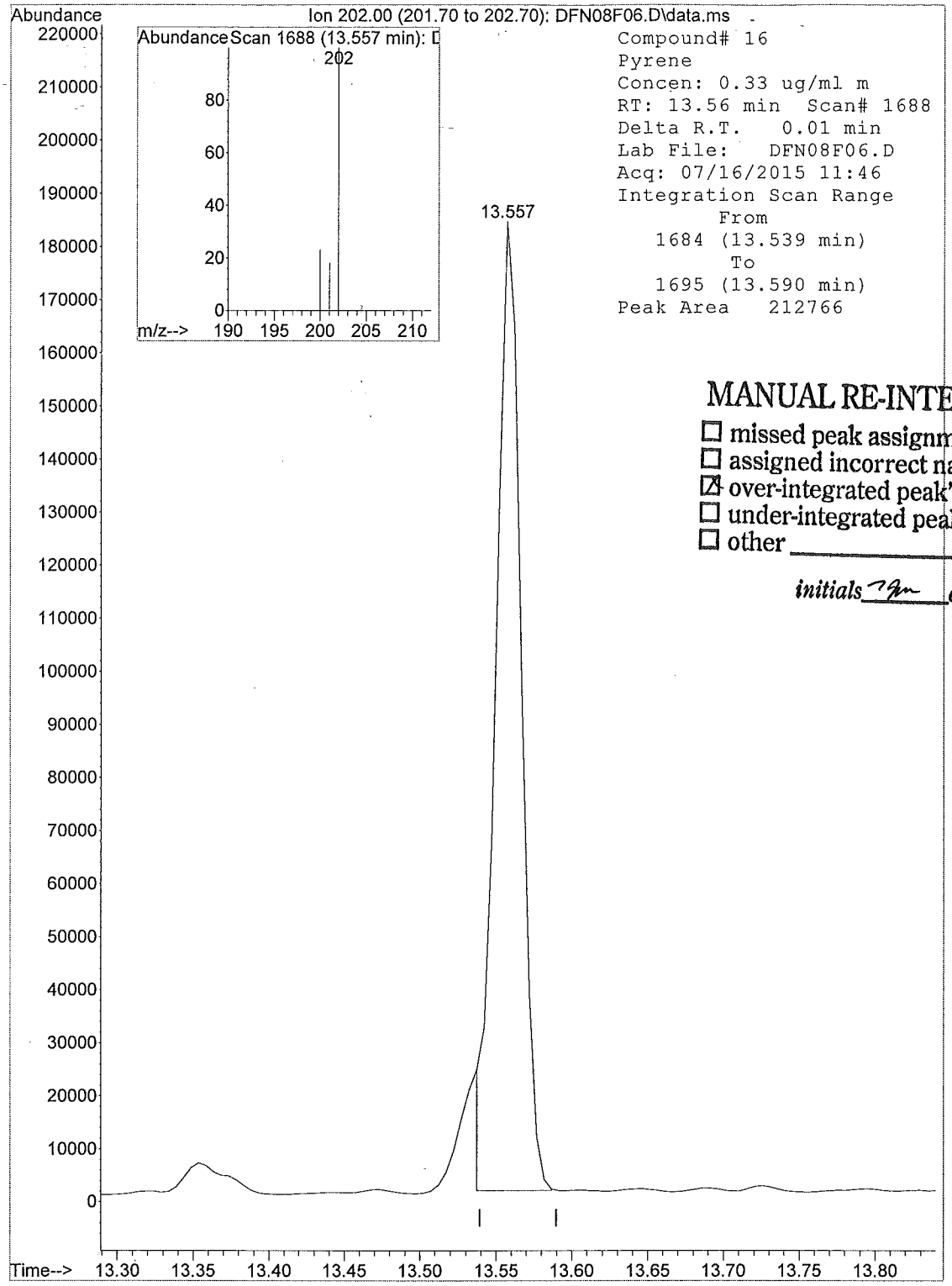


MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials TGM *date* 7.16.15

M A N U A L I N T E G R A T I O N FOR Pyrene



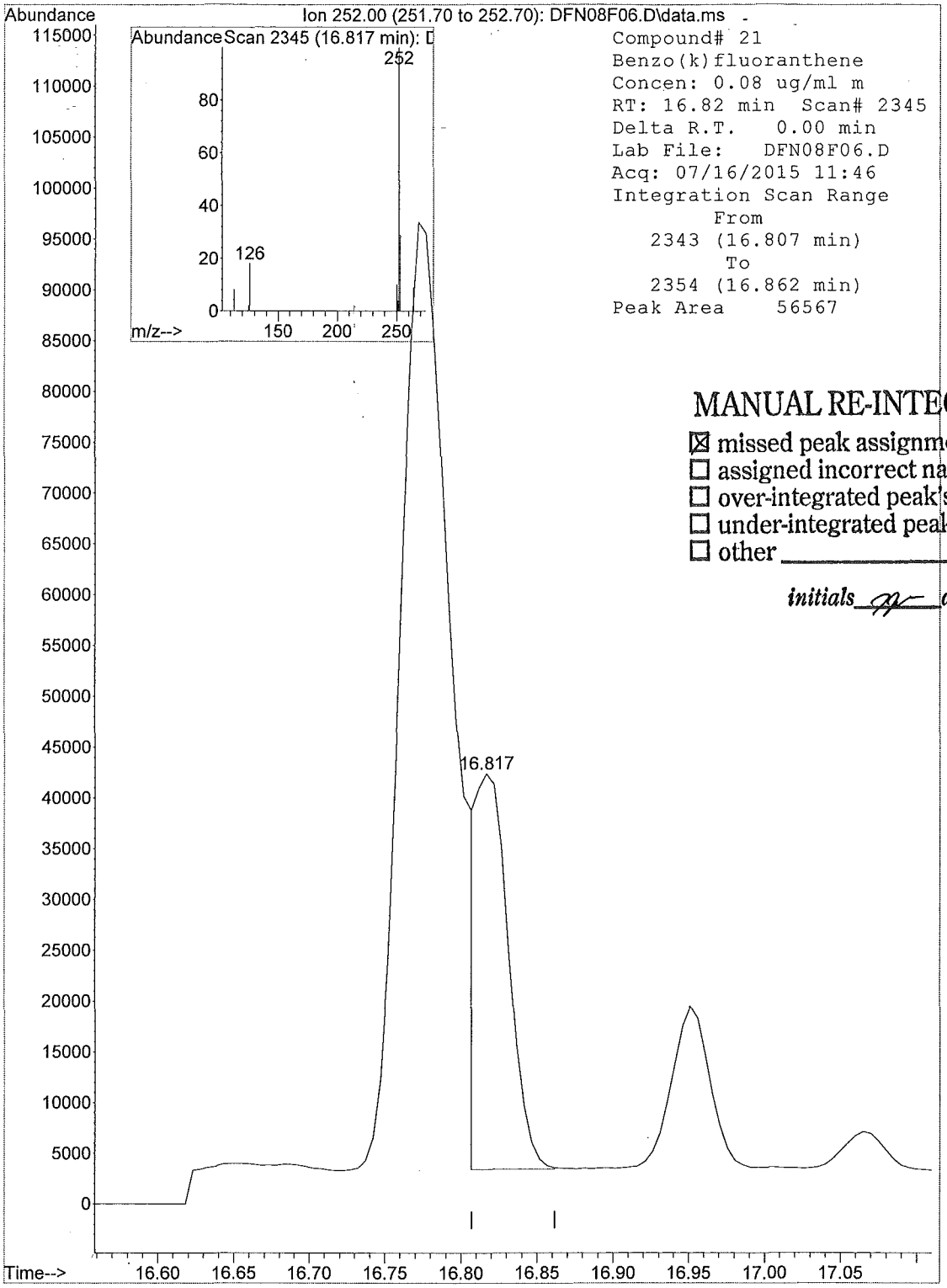
MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials TJm *date* 7/6.15

DSOM_SIMJ2.M 5975-D DSOM_SIMJ2.M 1514293006 F9L63 . SOIL SIM

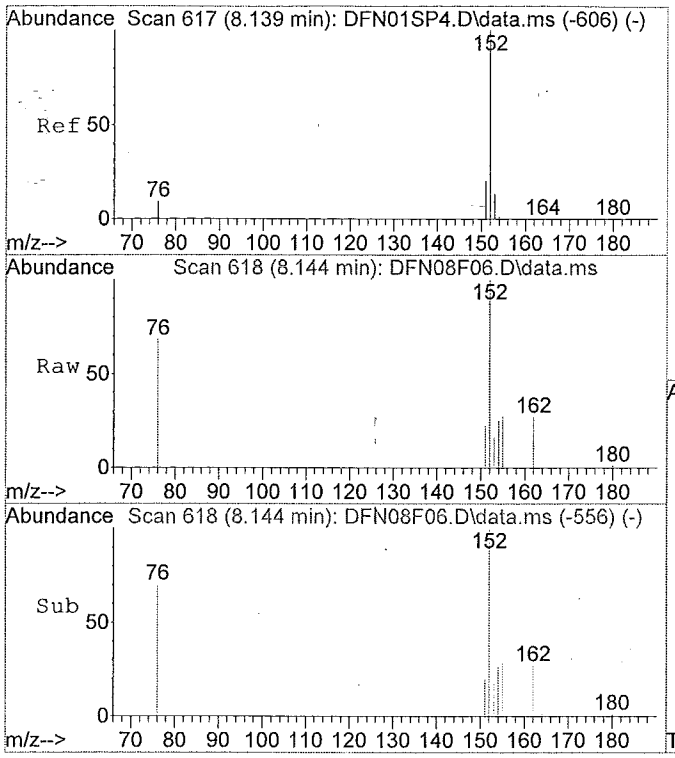
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

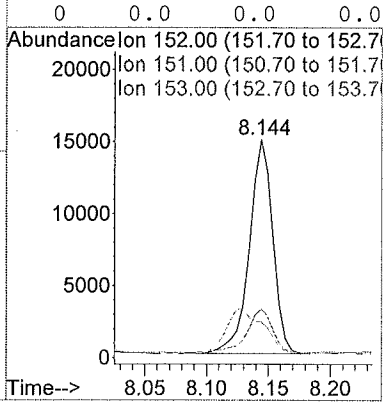
initials [illegible] *date* 7.16.15

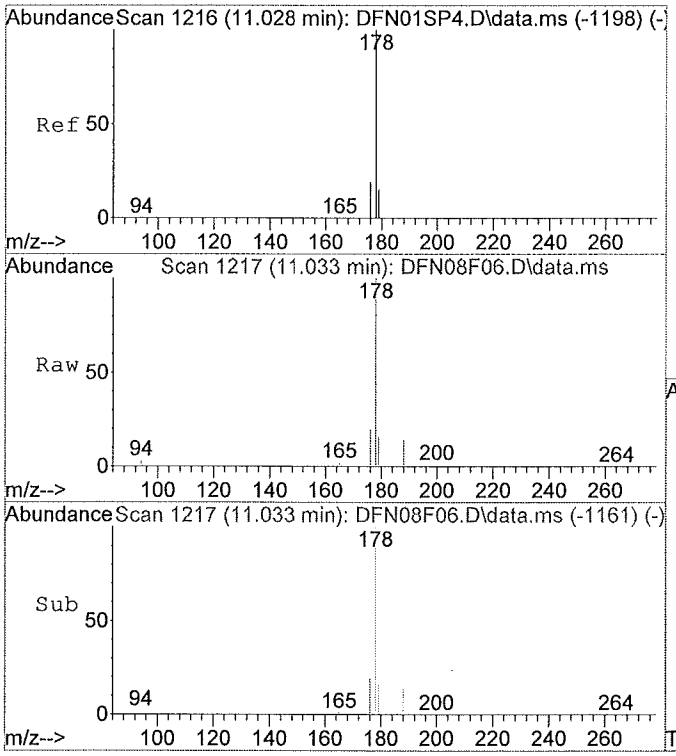


#6
Acenaphthylene
Concen: 0.04 ug/ml
RT: 8.14 min Scan# 618
Delta R.T. 0.00 min
Lab File: DFN08F06.D
Acq: 07/16/2015 11:46

Tgt Ion:152 Resp: 19679

Ion	Ratio	Lower	Upper
152	100		
151	22.5	15.5	28.7
153	34.2	8.8	16.4#
0	0.0	0.0	0.0

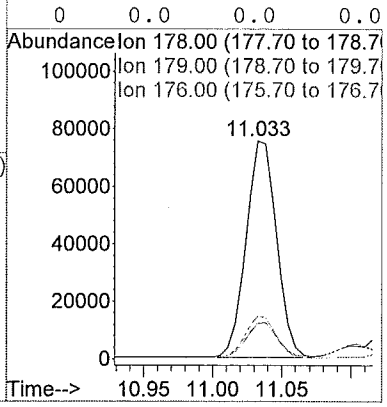


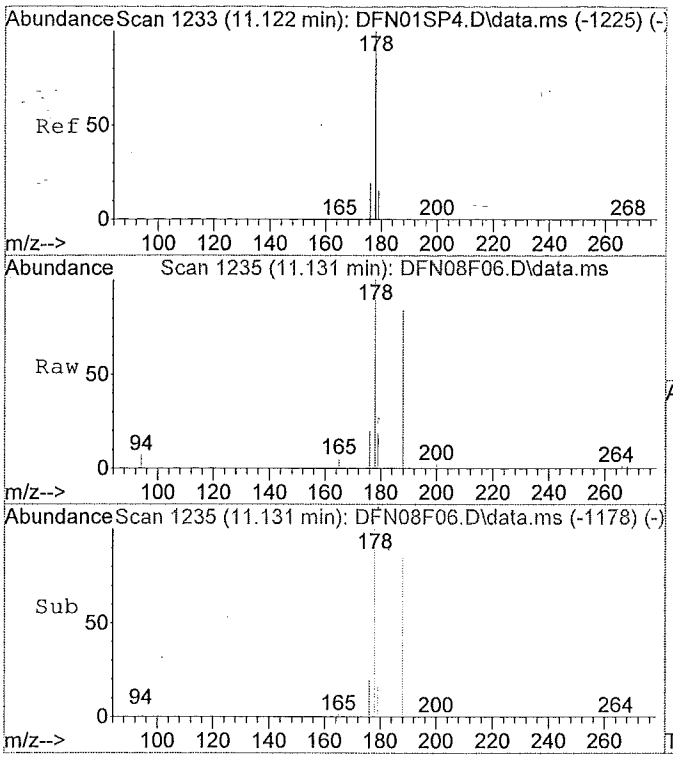


#11
Phenanthrene
Concen: 0.22 ug/ml
RT: 11.03 min Scan# 1217
Delta R.T. 0.00 min
Lab File: DFN08F06.D
Acq: 07/16/2015 11:46

Tgt Ion:178 Resp: 115561

Ion	Ratio	Lower	Upper
178	100		
179	16.0	11.1	20.5
176	19.4	14.1	26.1
0	0.0	0.0	0.0

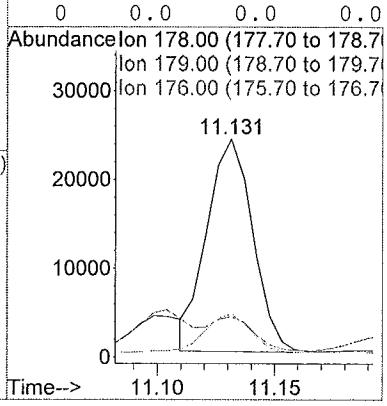


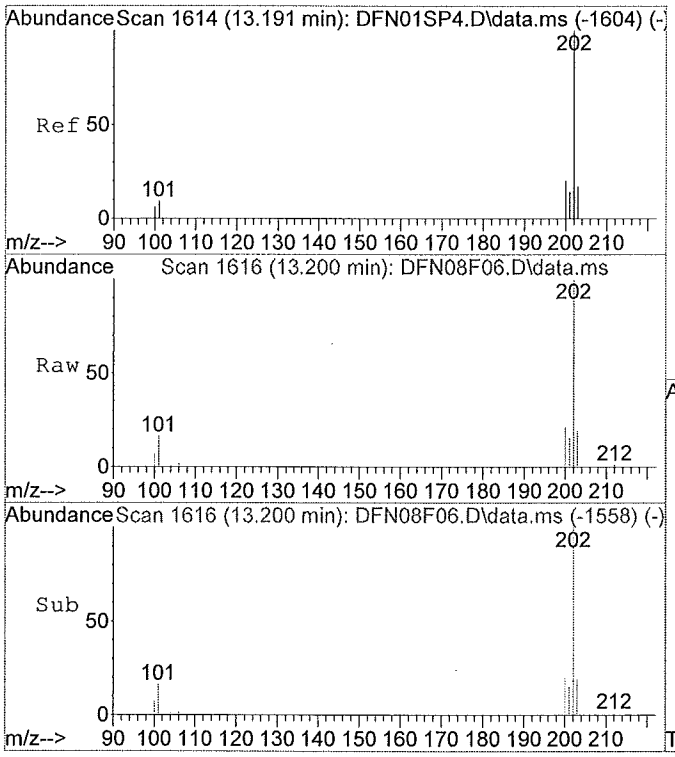


#12
Anthracene
Concen: 0.06 ug/ml m
RT: 11.13 min Scan# 1235
Delta R.T. 0.01 min
Lab File: DFN08F06.D
Acq: 07/16/2015 11:46

Tgt Ion:178 Resp: 32655

Ion	Ratio	Lower	Upper
178	100		
179	13.1	11.6	21.6
176	20.9	13.9	25.7
0	0.0	0.0	0.0

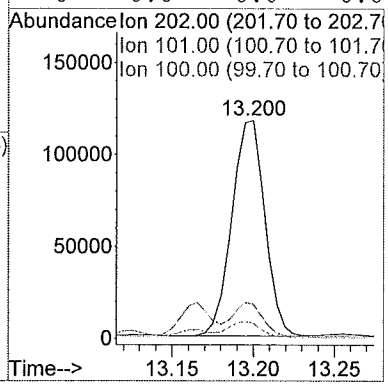


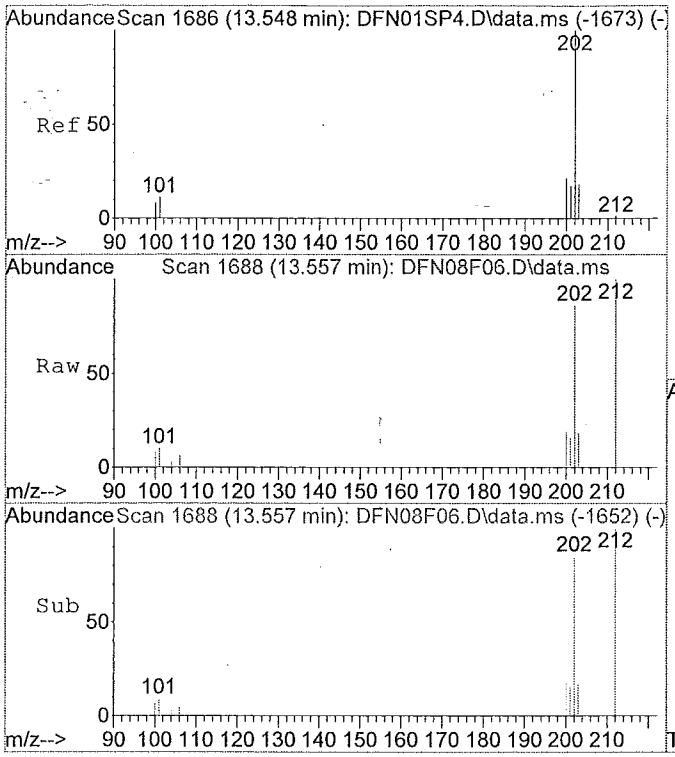


#14
Fluoranthene
Concen: 0.27 ug/ml
RT: 13.20 min Scan# 1616
Delta R.T. 0.01 min
Lab File: DFN08F06.D
Acq: 07/16/2015 11:46

Tgt Ion:202 Resp: 165972

Ion	Ratio	Lower	Upper
202	100		
101	14.2	9.4	17.6
100	7.3	0.0	0.0#
0	0.0	0.0	0.0

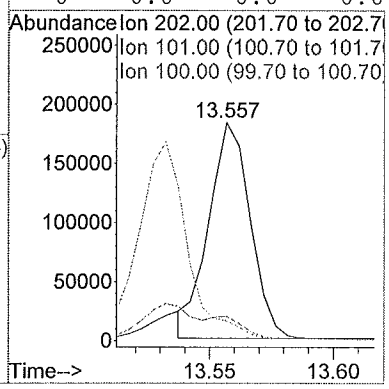


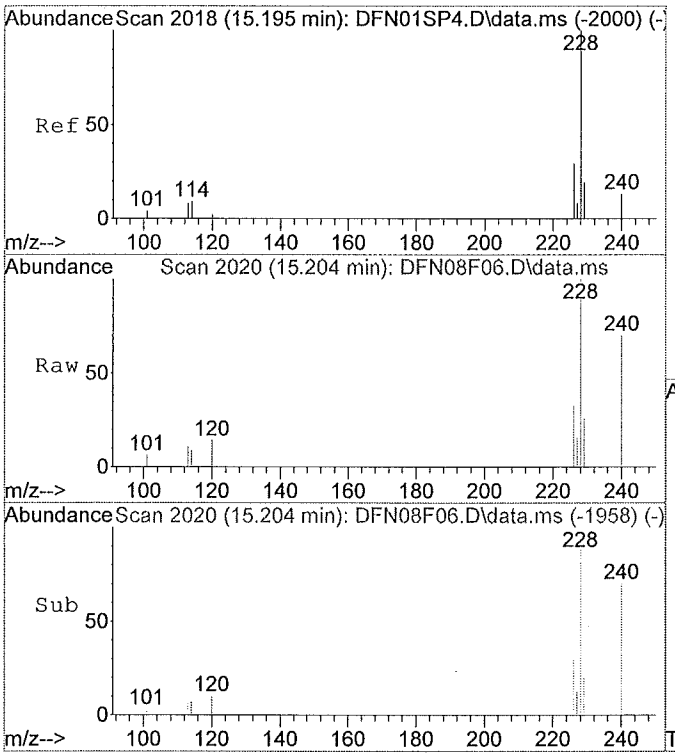


#16
Pyrene
Concen: 0.33 ug/ml m
RT: 13.56 min Scan# 1688
Delta R.T. 0.01 min
Lab File: DFN08F06.D
Acq: 07/16/2015 11:46

Tgt Ion:202 Resp: 212766

Ion	Ratio	Lower	Upper
202	100		
101	20.7	10.6	19.6#
100	109.5	9.4	17.4#
0	0.0	0.0	0.0

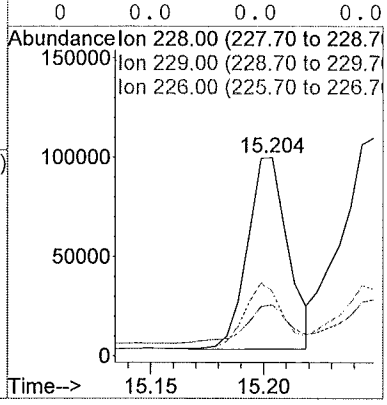


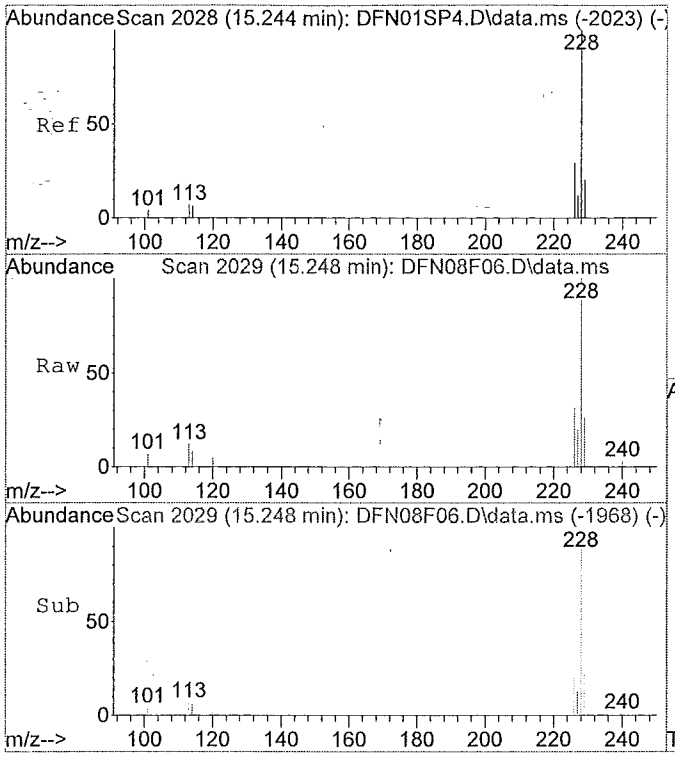


#17
Benzo(a)anthracene
Concen: 0.22 ug/ml
RT: 15.20 min Scan# 2020
Delta R.T. 0.01 min
Lab File: DFN08F06.D
Acq: 07/16/2015 11:46

Tgt Ion:228 Resp: 120341

Ion	Ratio	Lower	Upper
228	100		
229	22.4	14.5	26.9
226	33.9	18.5	34.3
0	0.0	0.0	0.0

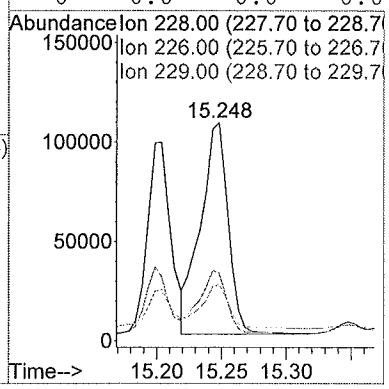


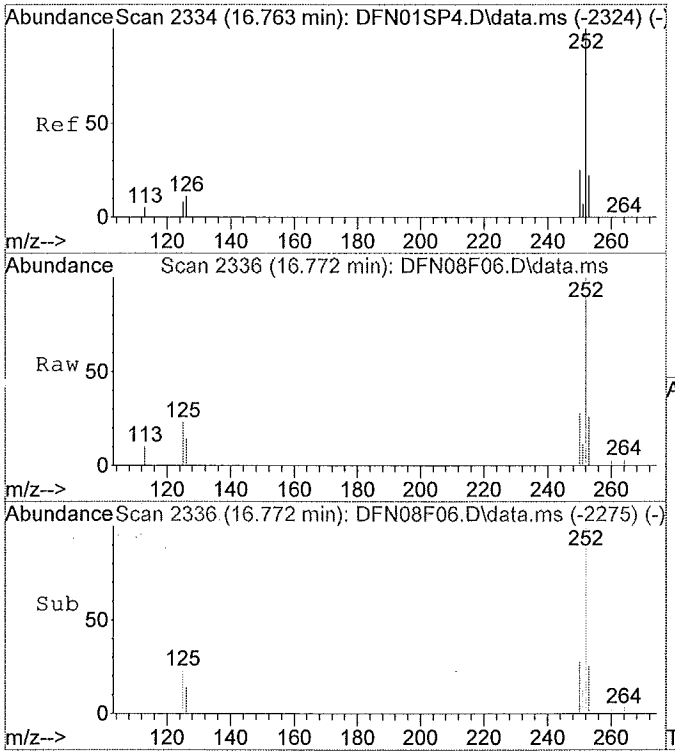


#18
Chrysene
Concen: 0.28 ug/ml
RT: 15.25 min Scan# 2029
Delta R.T. 0.00 min
Lab File: DFN08F06.D
Acq: 07/16/2015 11:46

Tgt Ion:228 Resp: 158598

Ion	Ratio	Lower	Upper
228	100		
226	30.2	19.7	36.7
229	22.4	14.5	26.9
0	0.0	0.0	0.0

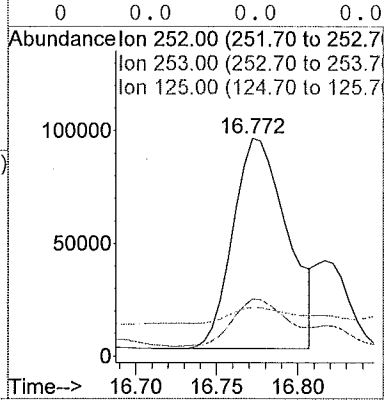


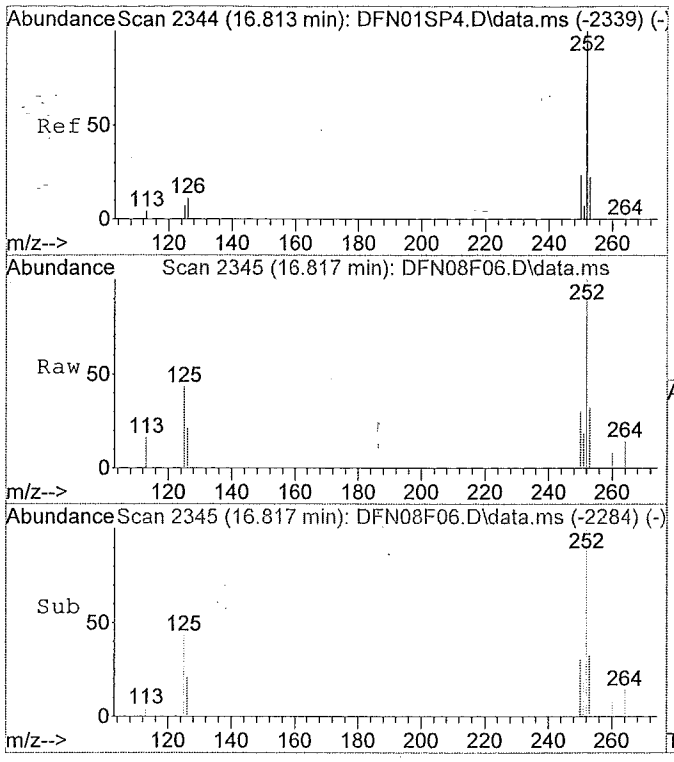


#20
Benzo(b)fluoranthene
Concen: 0.31 ug/ml
RT: 16.77 min Scan# 2336
Delta R.T. 0.01 min
Lab File: DFN08F06.D
Acq: 07/16/2015 11:46

Tgt Ion:252 Resp: 216987

Ion	Ratio	Lower	Upper
252	100		
253	22.0	15.3	28.3
125	5.9	0.0	0.0#
0	0.0	0.0	0.0

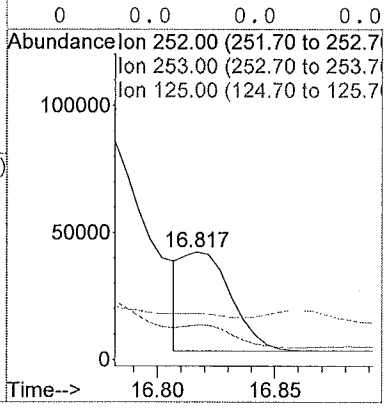


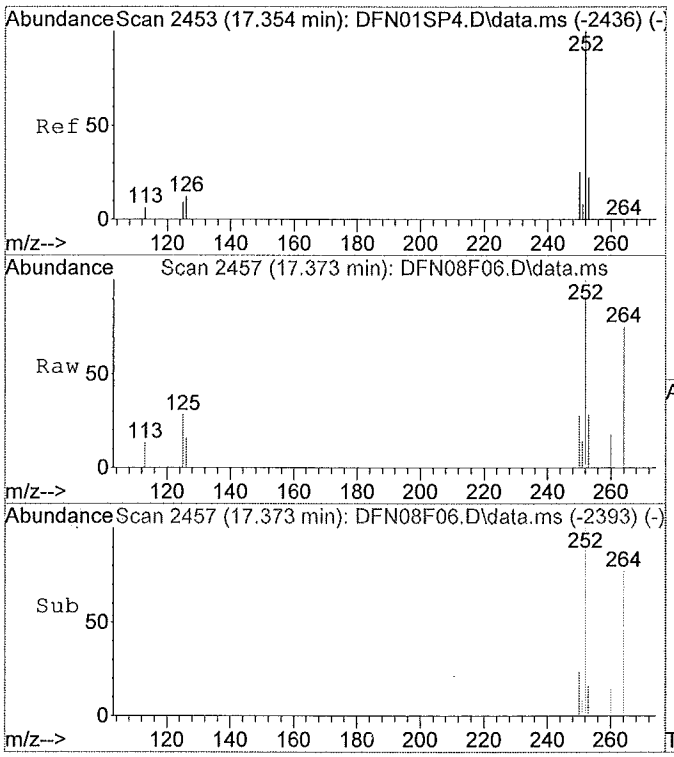


#21
Benzo(k)fluoranthene
Concen: 0.08 ug/ml m
RT: 16.82 min Scan# 2345
Delta R.T. 0.00 min
Lab File: DFN08F06.D
Acq: 07/16/2015 11:46

Tgt Ion:252 Resp: 56567

Ion	Ratio	Lower	Upper
252	100		
253	84.4	15.0	27.8#
125	22.8	0.0	0.0#
0	0.0	0.0	0.0

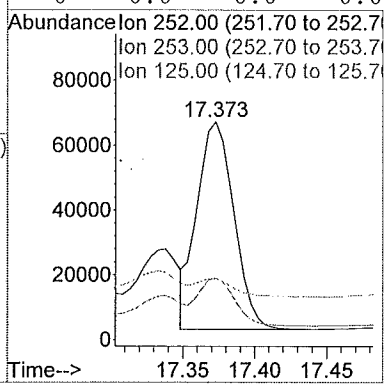


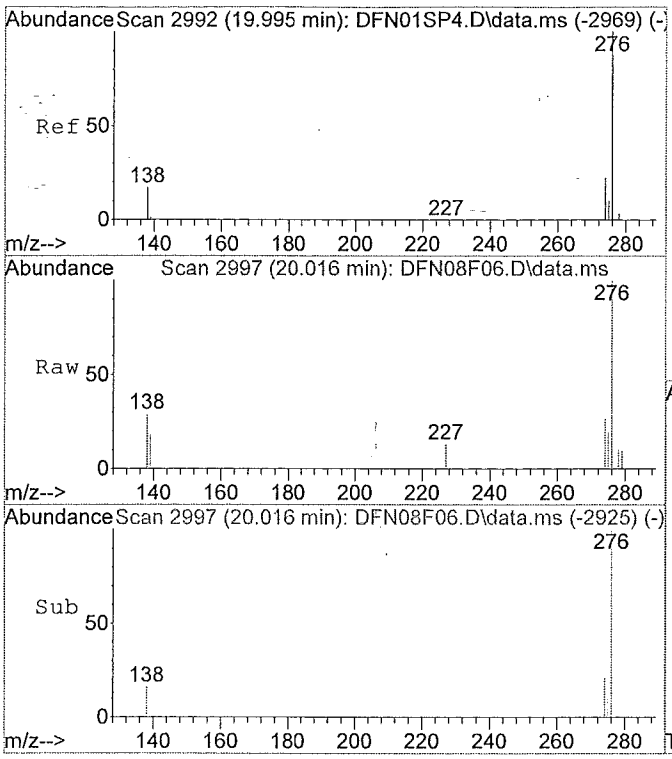


#22
Benzo(a)pyrene
Concen: 0.17 ug/ml
RT: 17.37 min Scan# 2457
Delta R.T. 0.02 min
Lab File: DFN08F06.D
Acq: 07/16/2015 11:46

Tgt Ion:252 Resp: 115018

Ion	Ratio	Lower	Upper
252	100		
253	22.5	15.0	27.8
125	9.3	0.0	0.0#
0	0.0	0.0	0.0

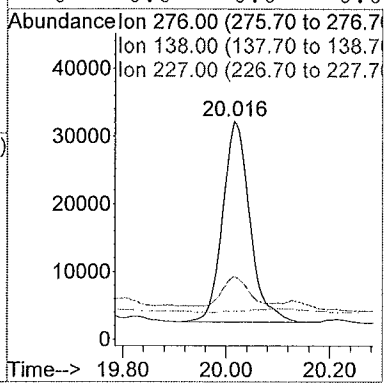


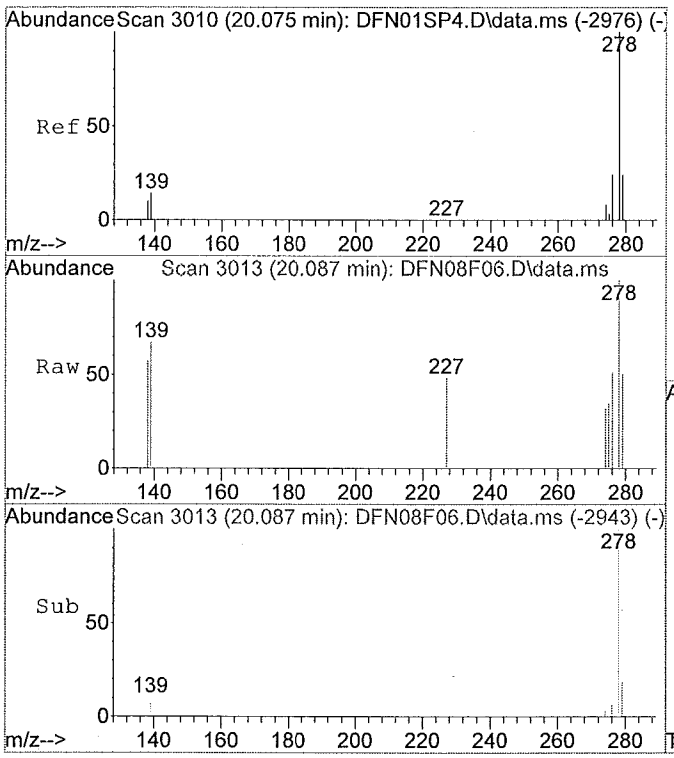


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.18 ug/ml
RT: 20.02 min Scan# 2997
Delta R.T. 0.02 min
Lab File: DFN08F06.D
Acq: 07/16/2015 11:46

Tgt Ion:276 Resp: 107969

Ion	Ratio	Lower	Upper
276	100		
138	13.4	0.0	0.0#
227	0.2	0.0	0.0#
0	0.0	0.0	0.0

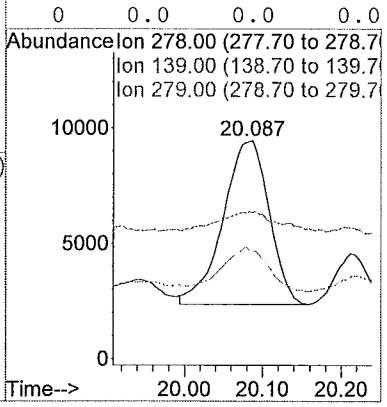


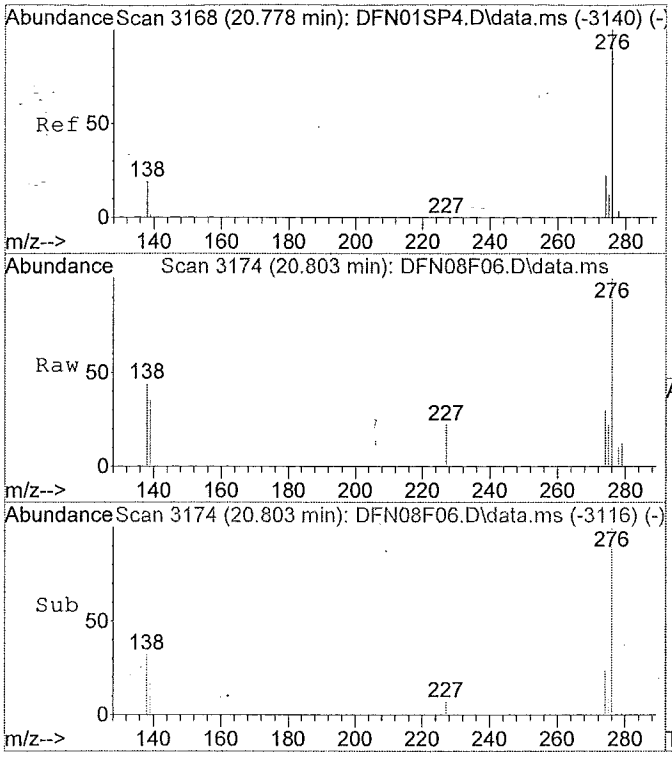


#24
Dibenzo(a,h)anthracene
Concen: 0.04 ug/ml
RT: 20.09 min Scan# 3013
Delta R.T. 0.01 min
Lab File: DFN08F06.D
Acq: 07/16/2015 11:46

Tgt Ion:278 Resp: 28990

Ion	Ratio	Lower	Upper
278	100		
139	11.9	0.0	0.0#
279	26.9	15.8	29.3
0	0.0	0.0	0.0

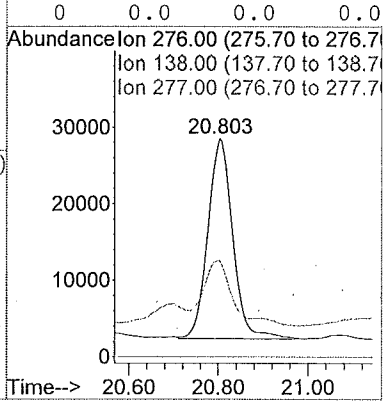




#25
Benzo(g,h,i)perylene
Concen: 0.15 ug/ml
RT: 20.80 min Scan# 3174
Delta R.T. 0.03 min
Lab File: DFN08F06.D
Acq: 07/16/2015 11:46

Tgt Ion:276 Resp: 101164

Ion	Ratio	Lower	Upper
276	100		
138	29.0	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.

F9L64

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293007

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFW11F07

Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/08/2015

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.7	U
91-57-6	2-Methylnaphthalene	0.84	J
208-96-8	Acenaphthylene	1.2	J
83-32-9	Acenaphthene	3.7	U
86-73-7	Fluorene	3.7	U
87-86-5	Pentachlorophenol	7.6	U
85-01-8	Phenanthrene	10.	
120-12-7	Anthracene	1.7	J
206-44-0	Fluoranthene	6.4	
129-00-0	Pyrene	14.	
56-55-3	Benzo(a)anthracene	9.1	
218-01-9	Chrysene	16.	
205-99-2	Benzo(b)fluoranthene	9.2	
207-08-9	Benzo(k)fluoranthene	2.2	J
50-32-8	Benzo(a)pyrene	6.1	
193-39-5	Indeno(1,2,3-cd)pyrene	5.5	
53-70-3	Dibenzo(a,h)anthracene	1.7	J
191-24-2	Benzo(g,h,i)perylene	5.1	

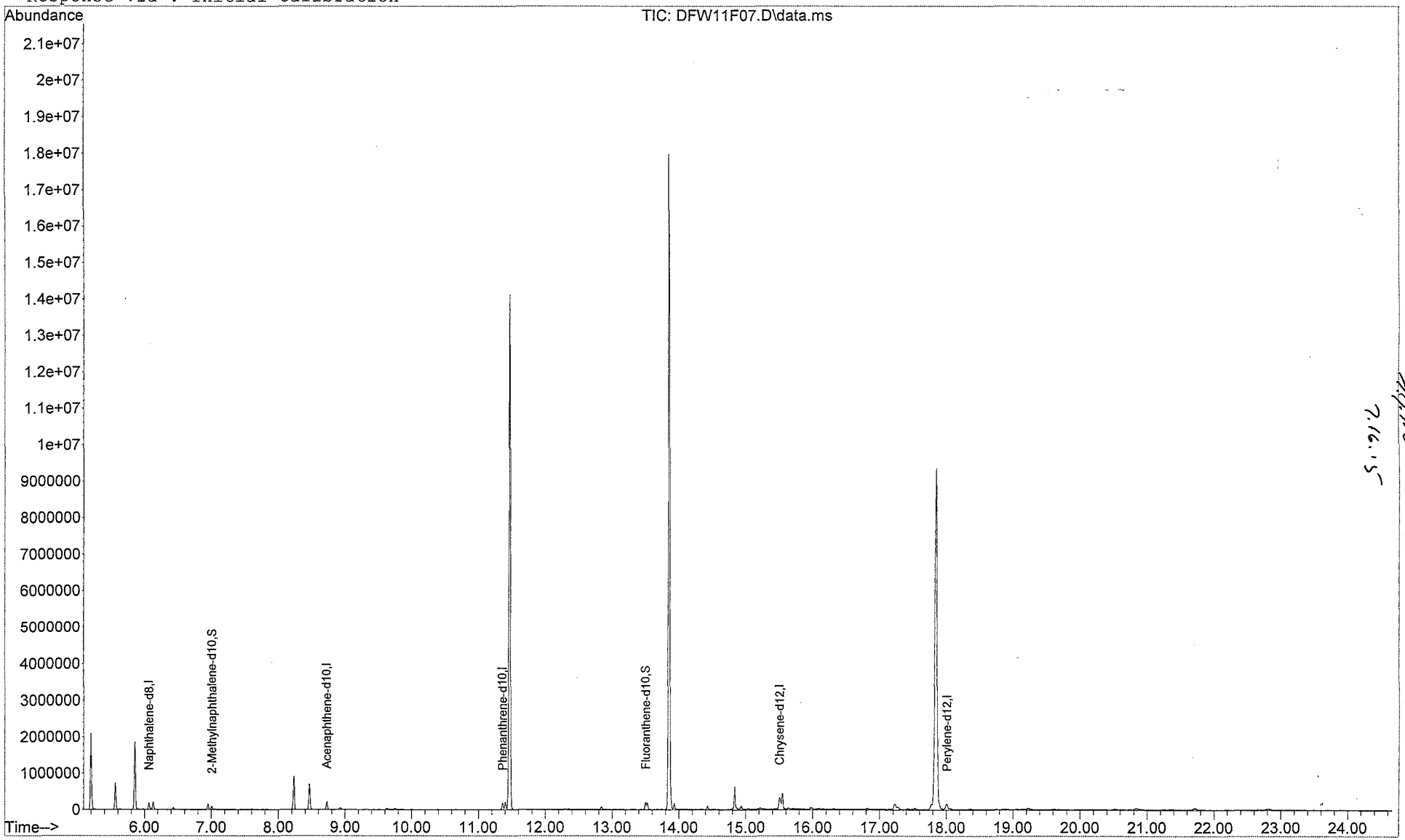
Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW11F07.D
Acq On : 06/08/2015 19:24
Sample : 1514293007 F9L64
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 10
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 14:57:53 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 Jul 15 14:52:03 2015
Response via : Initial Calibration



7.16.15

Quantitation Report

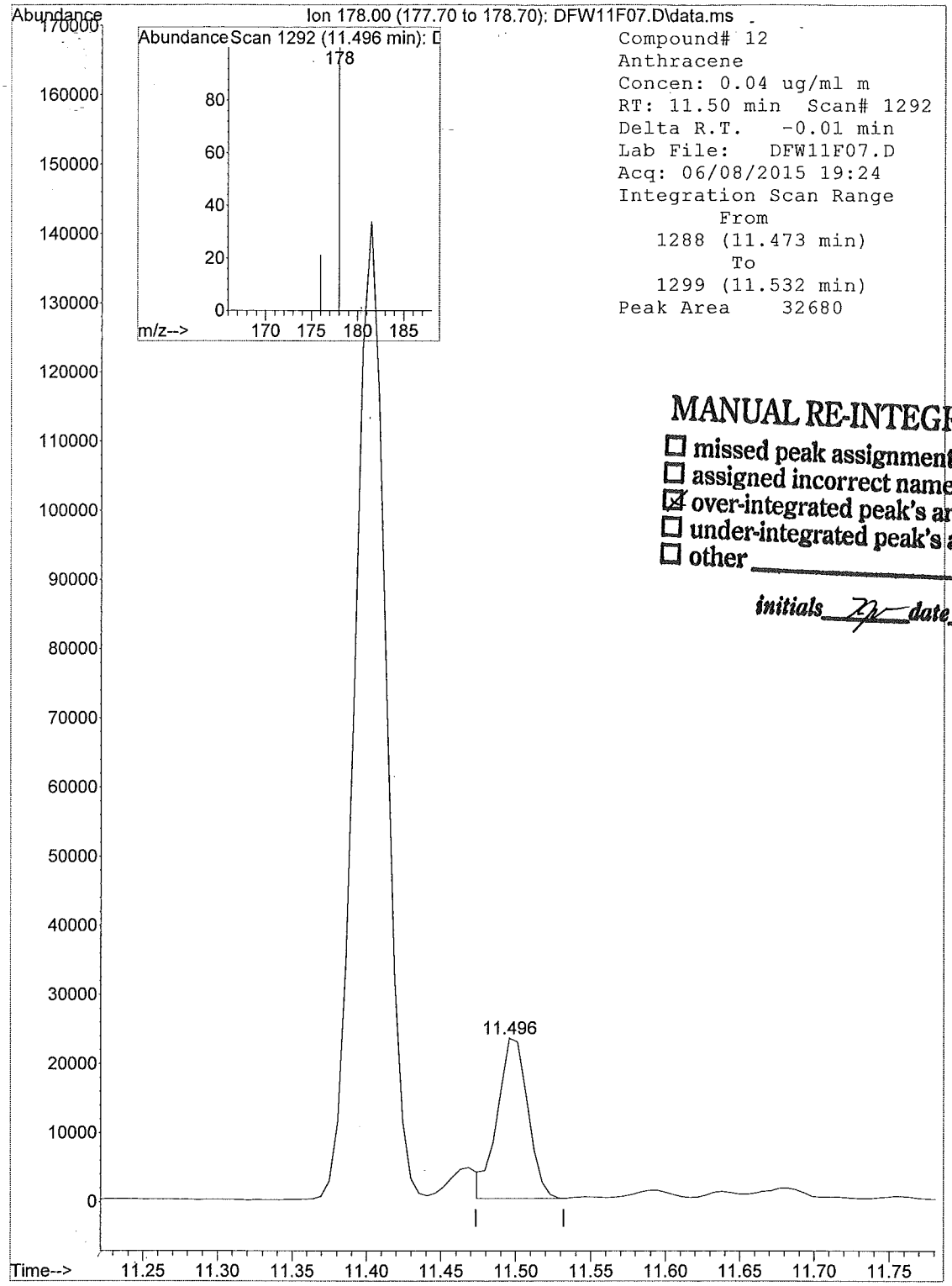
Data File : R:\D\2015\JUN15\08JUN15\DFW11F07.D Vial: 10
Acq On : 06/08/2015 19:24 Operator: DJC
Sample : 1514293007 F9L64 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:57:53 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.06	136	205245	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	145613	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	259836	0.40 ug/ml	
15) Chrysene-d12	15.51	240	254327	0.40 ug/ml	
19) Perylene-d12	18.01	264	265379	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	93336	0.282ug/mL	
13) Fluoranthene-d10	13.50	212	227472	0.320ug/mL	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	7.05	142	7703	0.022ug/ml	99
6) Acenaphthylene	8.49	152	19838	0.031ug/ml	80
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.40	178	205390	0.275ug/ml	98
12) Anthracene	11.50	178	32680	0.045ug/ml m	91 7.16.15
14) Fluoranthene	13.53	202	145468	0.171ug/ml	92
16) Pyrene	13.88	202	302418	0.379ug/ml	14
17) Benzo(a)anthracene	15.50	228	163735	0.241ug/ml	86
18) Chrysene	15.55	228	312404	0.436ug/ml	94
20) Benzo(b)fluoranthene	17.23	252	201956	0.244ug/ml	98
21) Benzo(k)fluoranthene	17.27	252	49391	0.058ug/ml m	98 7.16.15
22) Benzo(a)pyrene	17.89	252	128182	0.162ug/ml	94
23) Indeno(1,2,3-c,d)pyrene	20.84	276	101209	0.146ug/ml	100
24) Dibenzo(a,h)anthracene	20.91	278	33711	0.044ug/ml	97
25) Benzo(g,h,i)perylene	21.71	276	105880	0.136ug/ml	74

(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 Anthracene



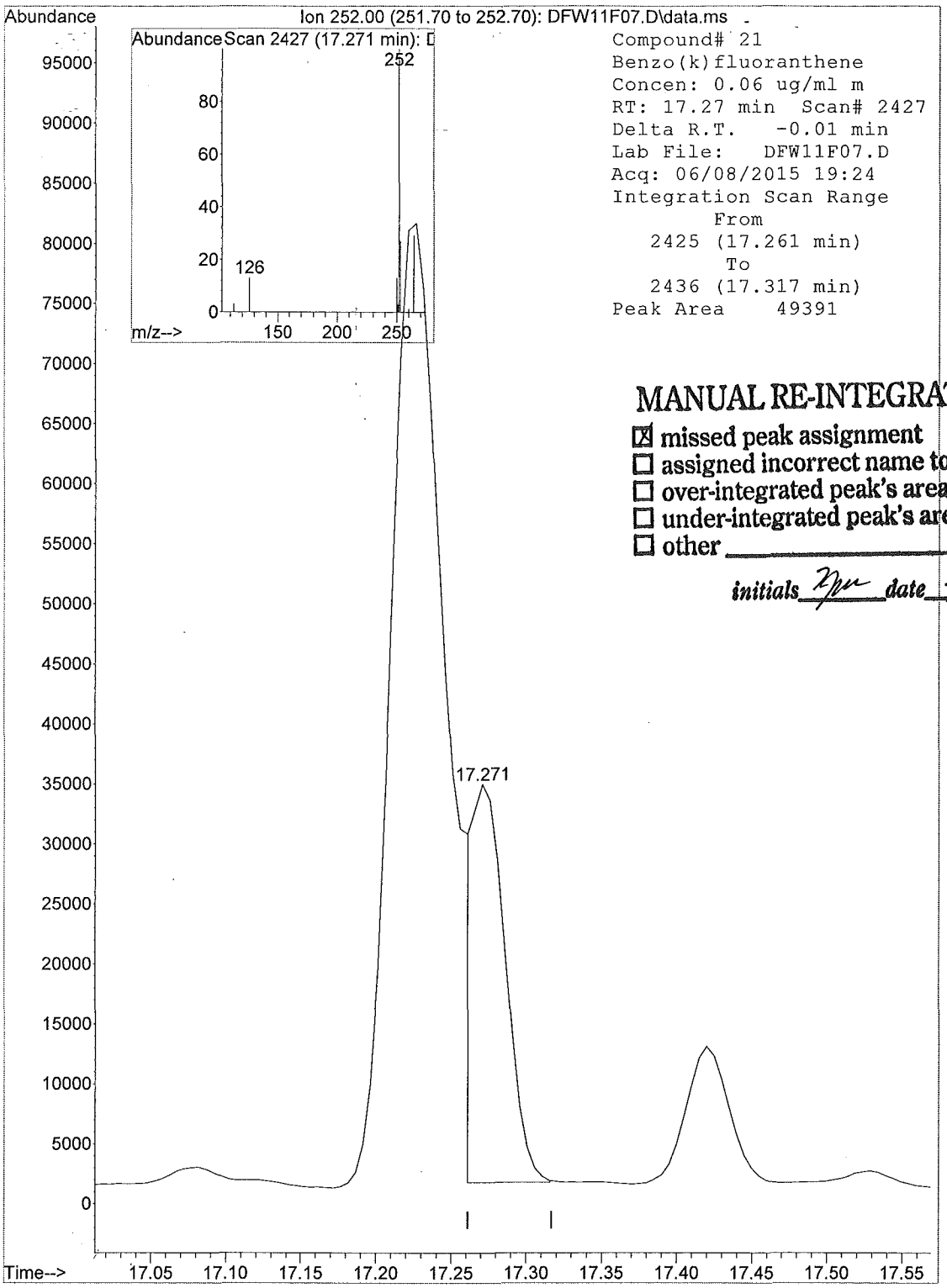
MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials ZK *date* 7.16.15

DSOM_SIMJ2.M 5975-D DSOM_SIMJ2.M 1514293007 F9L64 . SOIL SIM

M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene

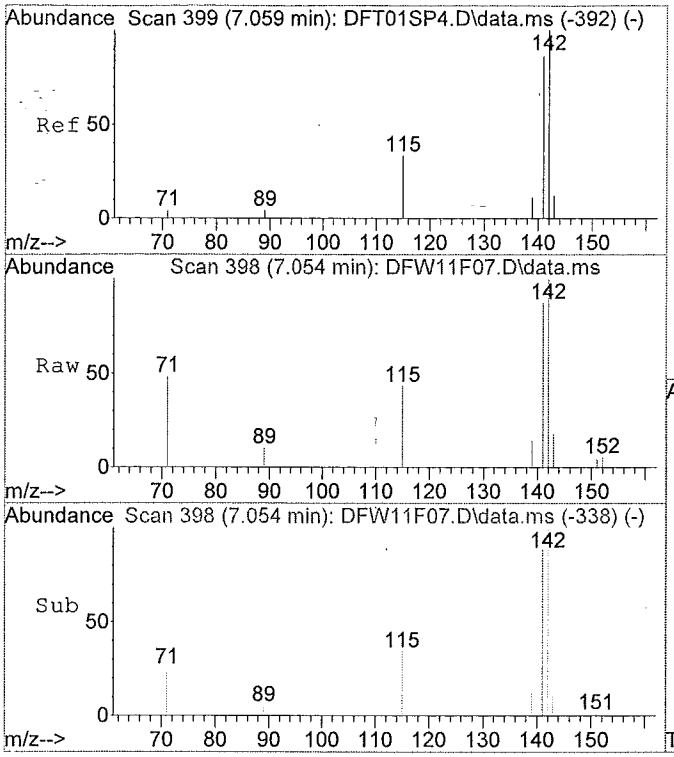


Compound# 21
Benzo(k)fluoranthene
Concen: 0.06 ug/ml m
RT: 17.27 min Scan# 2427
Delta R.T. -0.01 min
Lab File: DFW11F07.D
Acq: 06/08/2015 19:24
Integration Scan Range
From
2425 (17.261 min)
To
2436 (17.317 min)
Peak Area 49391

MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

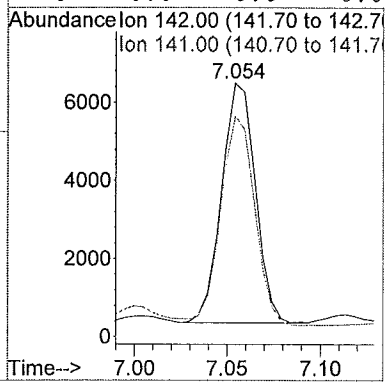
initials Zpu *date* 7.16.15

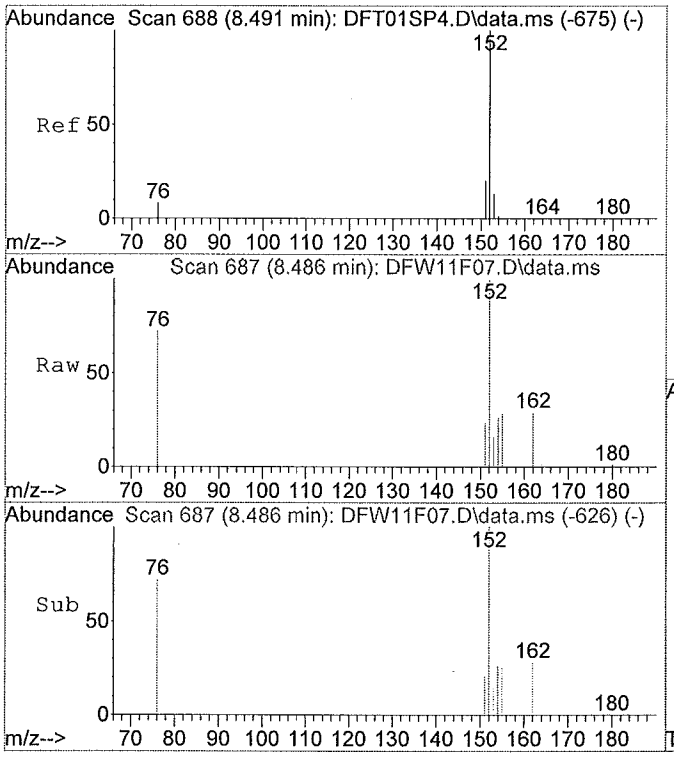


#4
2-Methylnaphthalene
Concen: 0.02 ug/ml
RT: 7.05 min Scan# 398
Delta R.T. -0.00 min
Lab File: DFW11F07.D
Acq: 06/08/2015 19:24

Tgt Ion:142 Resp: 7703

Ion	Ratio	Lower	Upper
142	100		
141	87.8	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

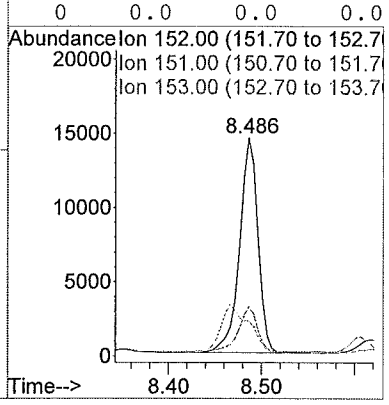


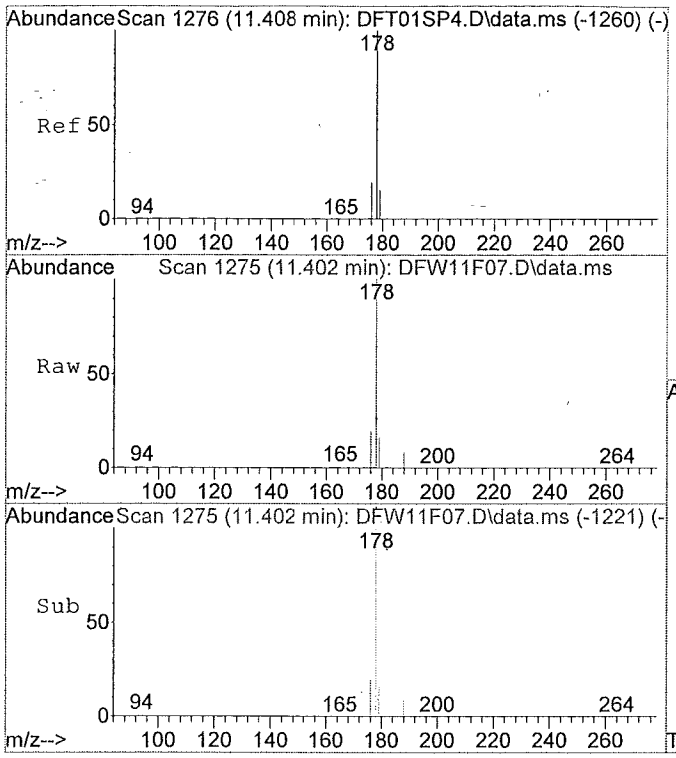


#6
Acenaphthylene
Concen: 0.03 ug/ml
RT: 8.49 min Scan# 687
Delta R.T. 0.00 min
Lab File: DFW11F07.D
Acq: 06/08/2015 19:24

Tgt Ion:152 Resp: 19838

Ion	Ratio	Lower	Upper
152	100		
151	21.9	15.5	28.7
153	33.8	8.8	16.4#
0	0.0	0.0	0.0

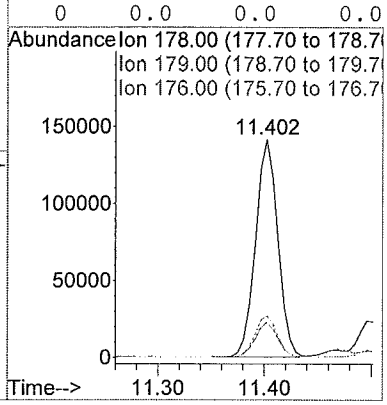


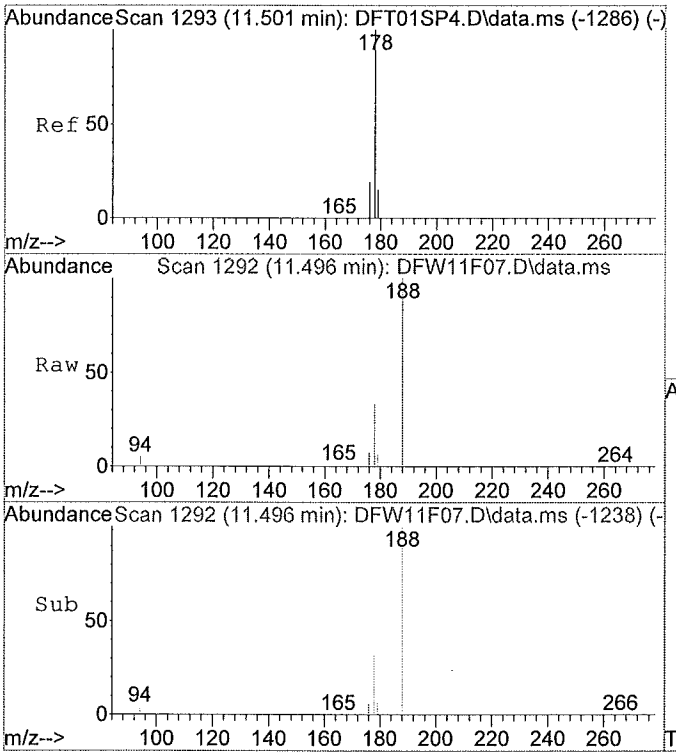


#11
Phenanthrene
Concen: 0.27 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFW11F07.D
Acq: 06/08/2015 19:24

Tgt Ion:178 Resp: 205390

Ion	Ratio	Lower	Upper
178	100		
179	16.1	11.1	20.5
176	19.1	14.1	26.1
0	0.0	0.0	0.0

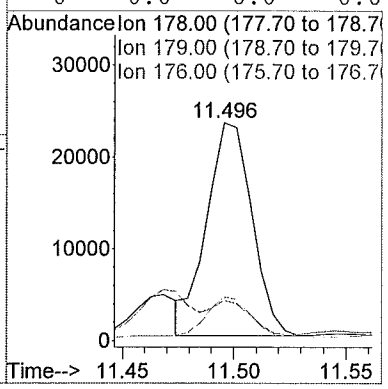


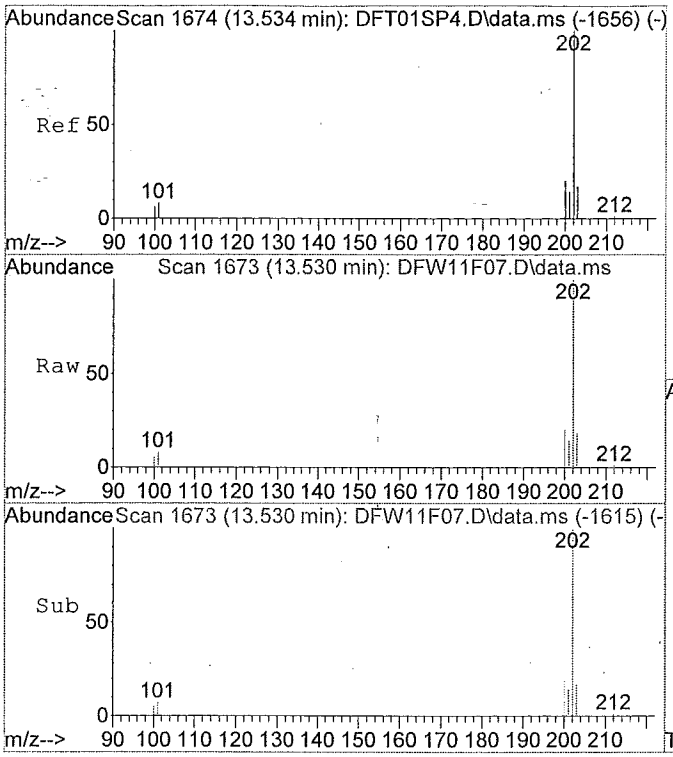


#12
Anthracene
Concen: 0.04 ug/ml m
RT: 11.50 min Scan# 1292
Delta R.T. -0.01 min
Lab File: DFW11F07.D
Acq: 06/08/2015 19:24

Tgt Ion:178 Resp: 32680

Ion	Ratio	Lower	Upper
178	100		
179	14.4	11.6	21.6
176	19.5	13.9	25.7
0	0.0	0.0	0.0

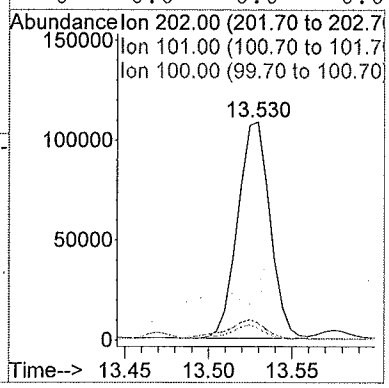


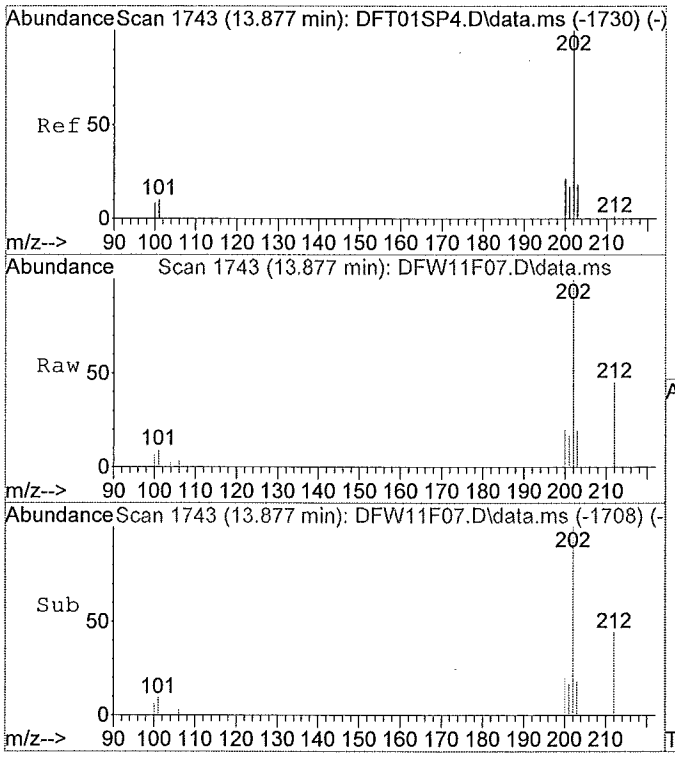


#14
Fluoranthene
Concen: 0.17 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFW11F07.D
Acq: 06/08/2015 19:24

Tgt Ion:202 Resp: 145468

Ion	Ratio	Lower	Upper
202	100		
101	10.2	9.4	17.6
100	8.4	0.0	0.0#
0	0.0	0.0	0.0

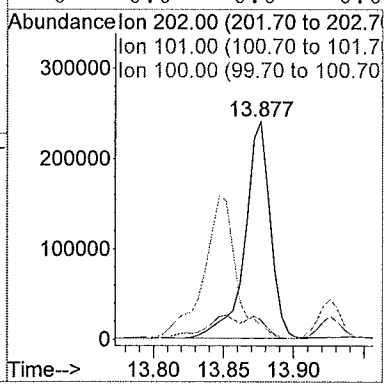


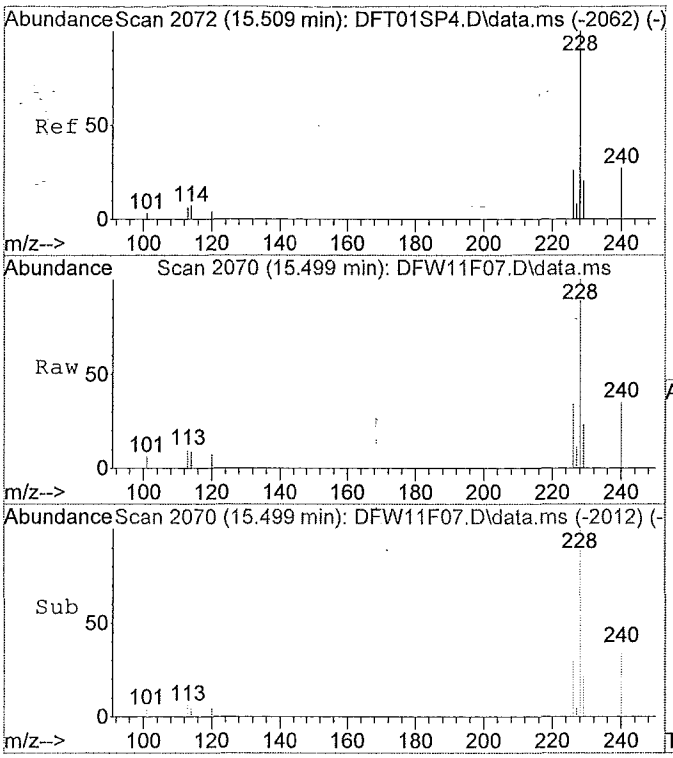


#16
Pyrene
Concen: 0.38 ug/ml
RT: 13.88 min Scan# 1743
Delta R.T. 0.00 min
Lab File: DFW11F07.D
Acq: 06/08/2015 19:24

Tgt Ion:202 Resp: 302418

Ion	Ratio	Lower	Upper
202	100		
101	14.8	10.6	19.6
100	86.1	9.4	17.4#
0	0.0	0.0	0.0

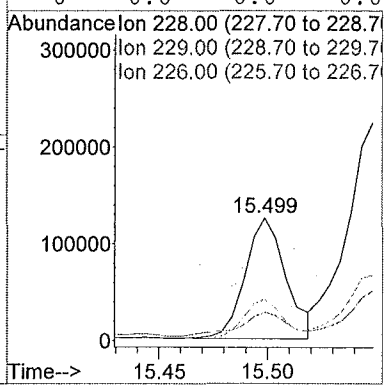


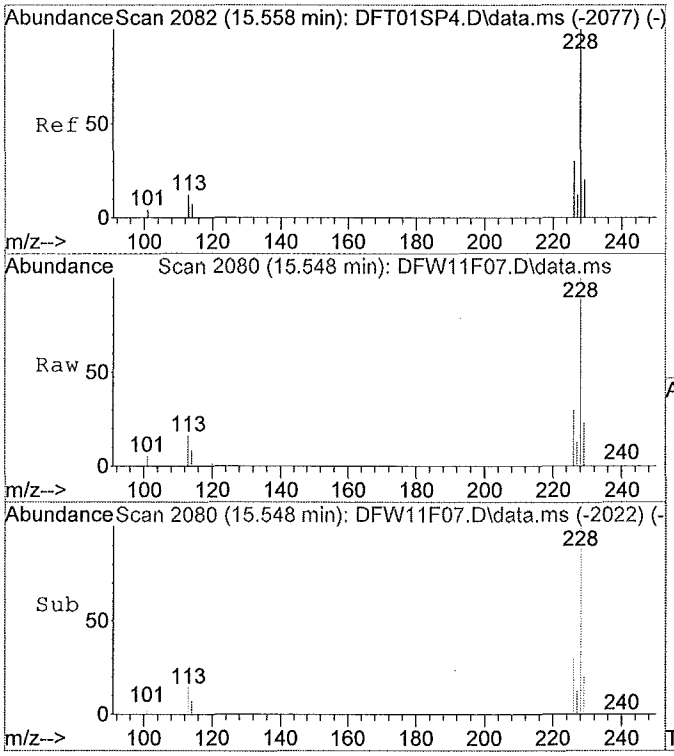


#17
Benzo(a)anthracene
Concen: 0.24 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFW11F07.D
Acq: 06/08/2015 19:24

Tgt Ion:228 Resp: 163735

Ion	Ratio	Lower	Upper
228	100		
229	27.2	14.5	26.9#
226	33.8	18.5	34.3
0	0.0	0.0	0.0

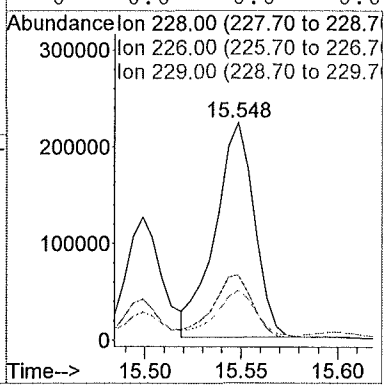


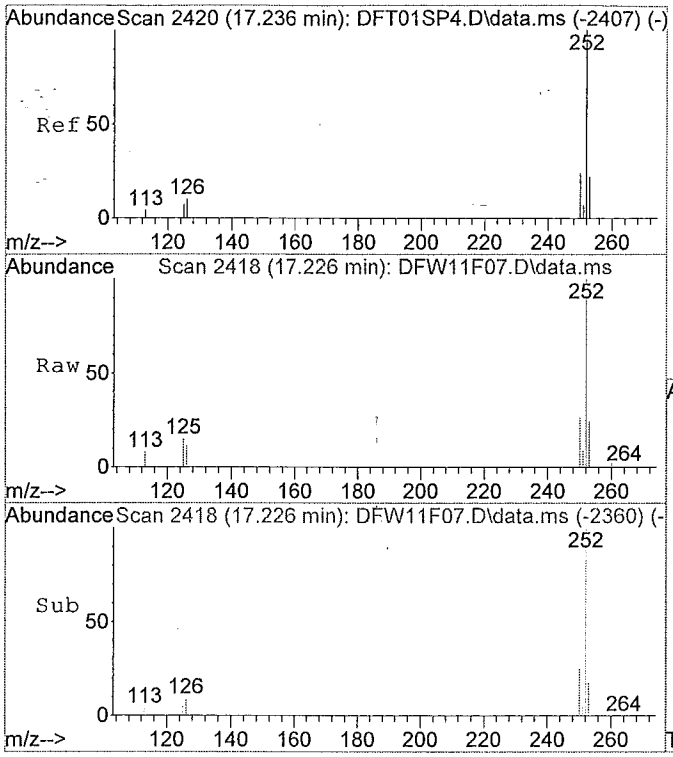


#18
Chrysene
Concen: 0.44 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFW11F07.D
Acq: 06/08/2015 19:24

Tgt Ion:228 Resp: 312404

Ion	Ratio	Lower	Upper
228	100		
226	31.4	19.7	36.7
229	23.2	14.5	26.9
0	0.0	0.0	0.0

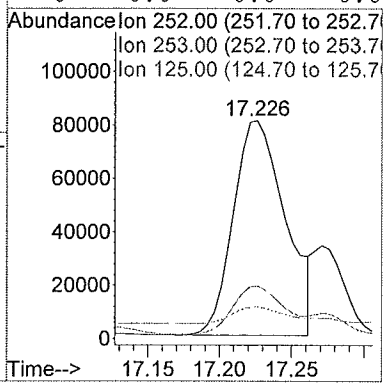


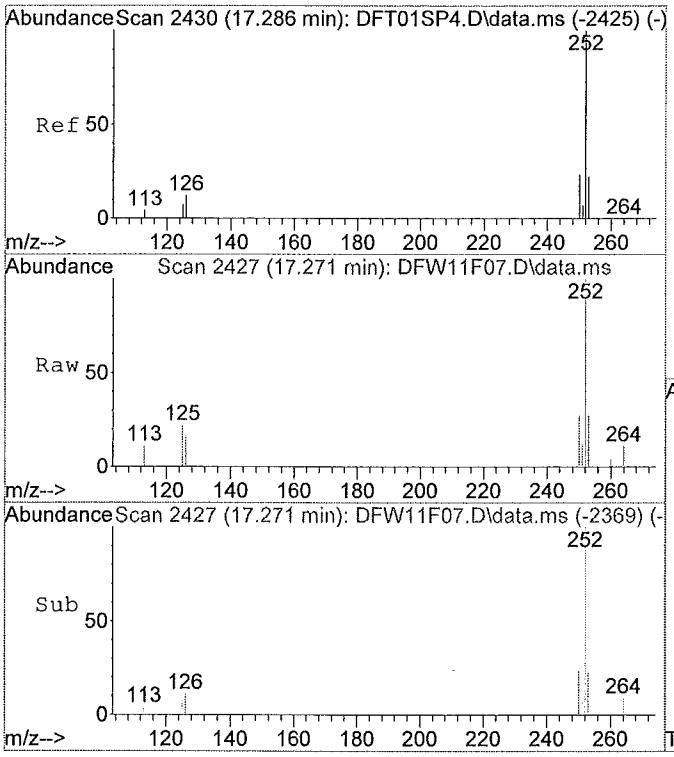


#20
Benzo(b)fluoranthene
Concen: 0.24 ug/ml
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DFW11F07.D
Acq: 06/08/2015 19:24

Tgt Ion:252 Resp: 201956

Ion	Ratio	Lower	Upper
252	100		
253	22.5	15.3	28.3
125	9.6	0.0	0.0#
0	0.0	0.0	0.0

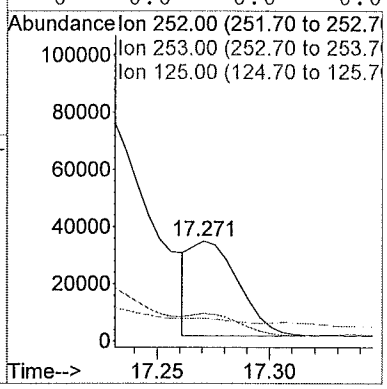


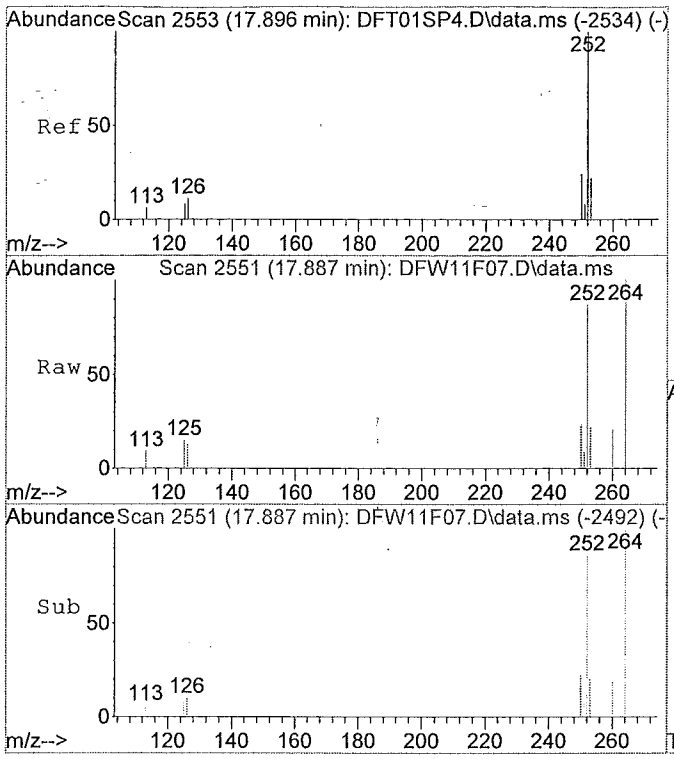


#21
Benzo(k)fluoranthene
Concen: 0.06 ug/ml m
RT: 17.27 min Scan# 2427
Delta R.T. -0.01 min
Lab File: DFW11F07.D
Acq: 06/08/2015 19:24

Tgt Ion:252 Resp: 49391

Ion	Ratio	Lower	Upper
252	100		
253	92.2	15.0	27.8#
125	39.1	0.0	0.0#
0	0.0	0.0	0.0

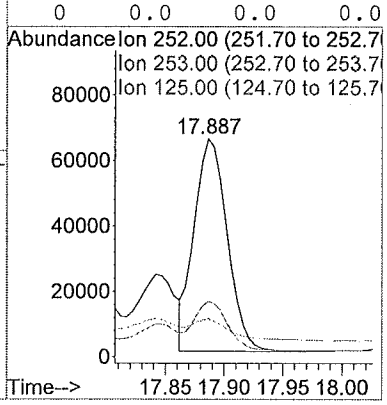


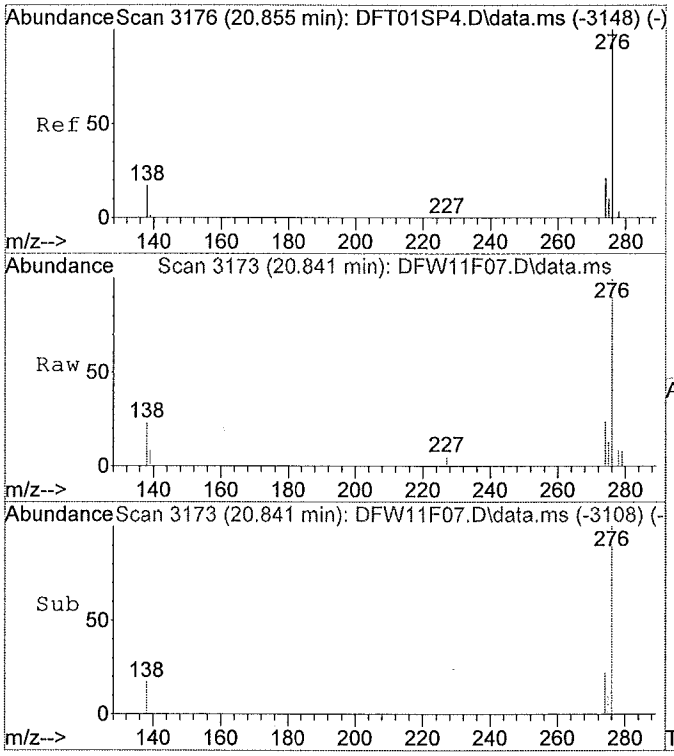


#22
Benzo(a)pyrene
Concen: 0.16 ug/ml
RT: 17.89 min Scan# 2551
Delta R.T. -0.00 min
Lab File: DFW11F07.D
Acq: 06/08/2015 19:24

Tgt Ion:252 Resp: 128182

Ion	Ratio	Lower	Upper
252	100		
253	24.0	15.0	27.8
125	12.1	0.0	0.0#
0	0.0	0.0	0.0

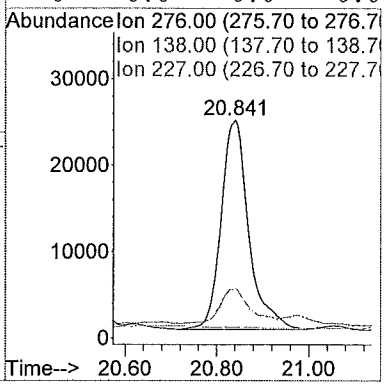


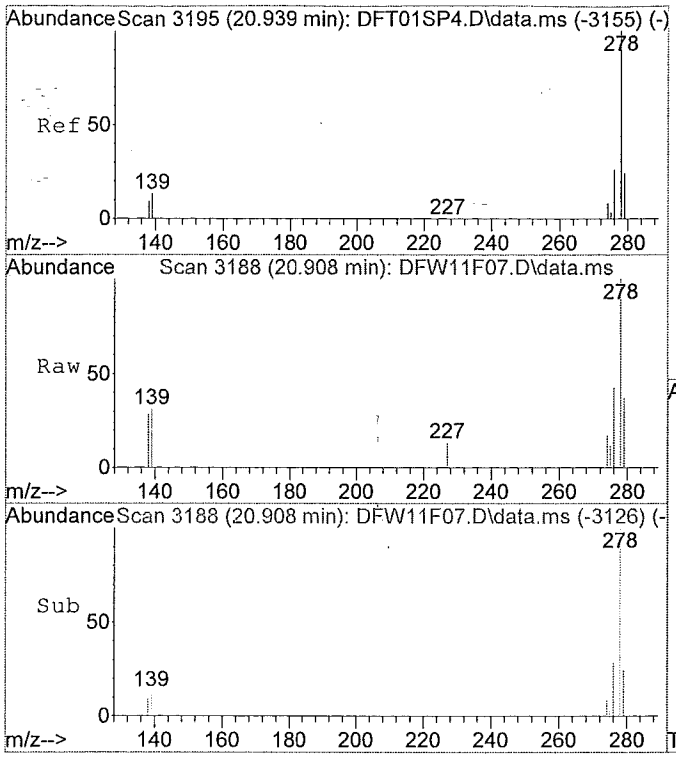


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.15 ug/ml
RT: 20.84 min Scan# 3173
Delta R.T. -0.01 min
Lab File: DFW11F07.D
Acq: 06/08/2015 19:24

Tgt Ion:276 Resp: 101209

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

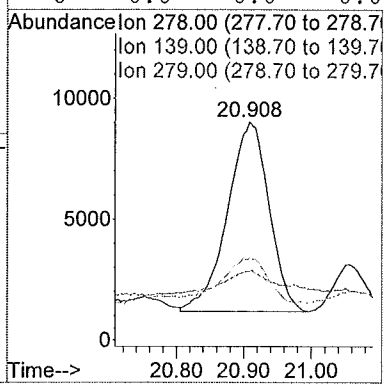


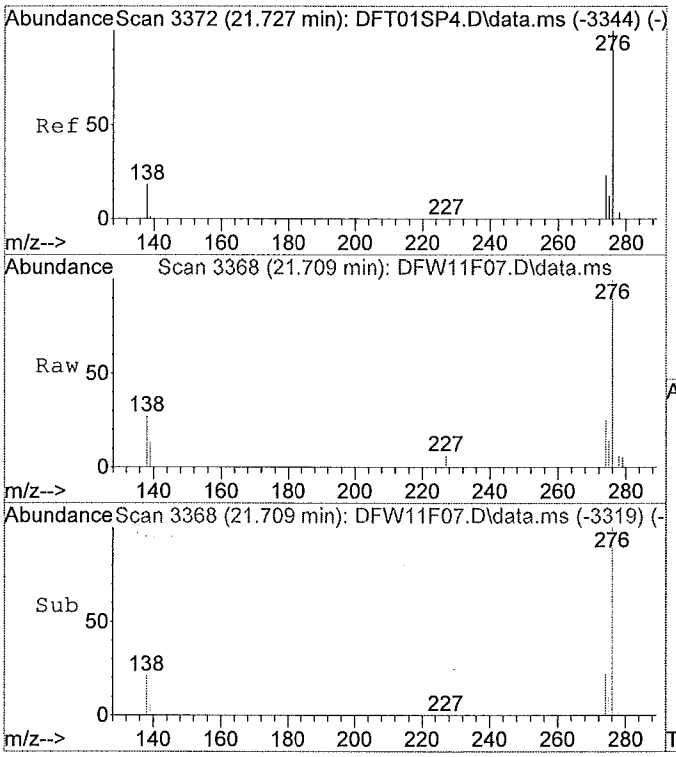


#24
Dibenzo(a,h)anthracene
Concen: 0.04 ug/ml
RT: 20.91 min Scan# 3188
Delta R.T. -0.02 min
Lab File: DFW11F07.D
Acq: 06/08/2015 19:24

Tgt Ion:278 Resp: 33711

Ion	Ratio	Lower	Upper
278	100		
139	11.9	0.0	0.0#
279	23.9	15.8	29.3
0	0.0	0.0	0.0

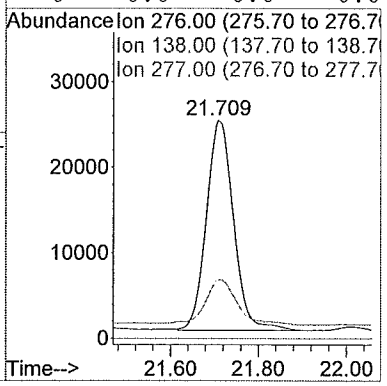




#25
Benzo(g,h,i)perylene
Concen: 0.14 ug/ml
RT: 21.71 min Scan# 3368
Delta R.T. -0.01 min
Lab File: DFW11F07.D
Acq: 06/08/2015 19:24

Tgt Ion:276 Resp: 105880

Ion	Ratio	Lower	Upper
276	100		
138	21.8	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.

F9L65

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293008

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFW12F08

Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/08/2015

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.7	U
91-57-6	2-Methylnaphthalene	3.7	U
208-96-8	Acenaphthylene	1.3	J
83-32-9	Acenaphthene	1.4	J
86-73-7	Fluorene	3.7	U
87-86-5	Pentachlorophenol	7.5	U
85-01-8	Phenanthrene	1.6	J
120-12-7	Anthracene	1.2	J
206-44-0	Fluoranthene	4.2	
129-00-0	Pyrene	6.0	
56-55-3	Benzo(a)anthracene	5.2	
218-01-9	Chrysene	6.4	
205-99-2	Benzo(b)fluoranthene	9.7	
207-08-9	Benzo(k)fluoranthene	2.4	J
50-32-8	Benzo(a)pyrene	4.6	
193-39-5	Indeno(1,2,3-cd)pyrene	4.7	
53-70-3	Dibenzo(a,h)anthracene	1.1	J
191-24-2	Benzo(g,h,i)perylene	2.7	J

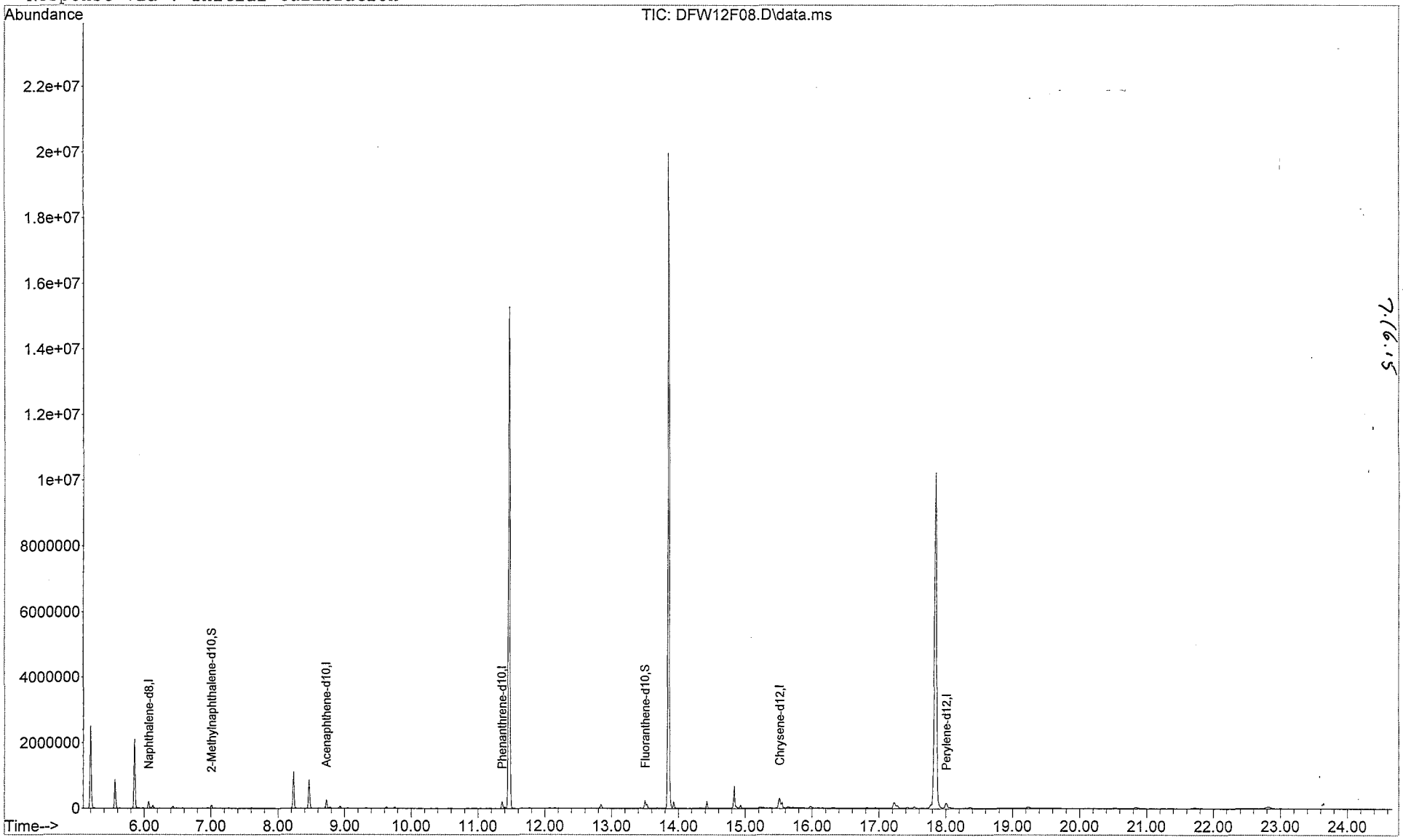
Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW12F08.D
Acq On : 06/08/2015 19:54
Sample : 1514293008 F9L65
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 11
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 14:58:57 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



7.16.15

Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW12F08.D Vial: 11
Acq On : 06/08/2015 19:54 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:58:57 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

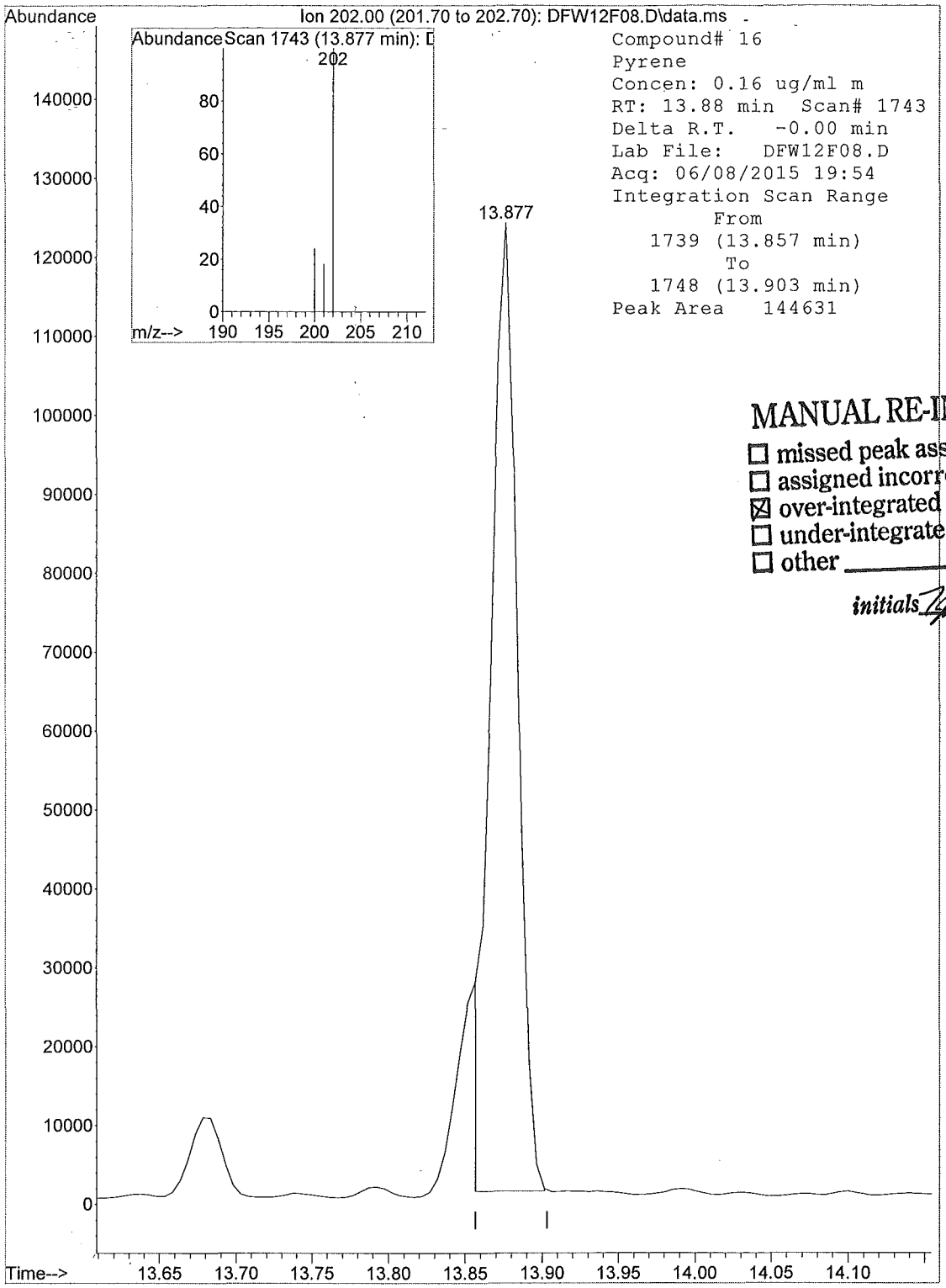
Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.07	136	231617	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	164962	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	285473	0.40 ug/ml
15) Chrysene-d12	15.51	240	287711	0.40 ug/ml
19) Perylene-d12	18.01	264	299605	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	112521	0.301ug/mL
13) Fluoranthene-d10	13.50	212	260748	0.334ug/mL

Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	8.49	152	25330	0.035ug/ml	82
7) Acenaphthene	8.78	153	16813	0.036ug/ml	98
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.40	178	35918	0.044ug/ml	89
12) Anthracene	11.50	178	26455	0.033ug/ml	93
14) Fluoranthene	13.53	202	106568	0.114ug/ml	66
16) Pyrene	13.88	202	144631	0.160ug/ml m 1 7.16.15	
17) Benzo(a)anthracene	15.50	228	106666	0.139ug/ml	89
18) Chrysene	15.55	228	140242	0.173ug/ml	97
20) Benzo(b)fluoranthene	17.23	252	242487	0.260ug/ml	99
21) Benzo(k)fluoranthene	17.27	252	63475	0.066ug/ml m 98 7.16.15	
22) Benzo(a)pyrene	17.89	252	110770	0.124ug/ml	97
23) Indeno(1,2,3-c,d)pyrene	20.84	276	98074	0.126ug/ml	100
24) Dibenzo(a,h)anthracene	20.91	278	25128	0.029ug/ml	95
25) Benzo(g,h,i)perylene	21.71	276	63271	0.072ug/ml	70

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 00756

M A N U A L I N T E G R A T I O N FOR Pyrene

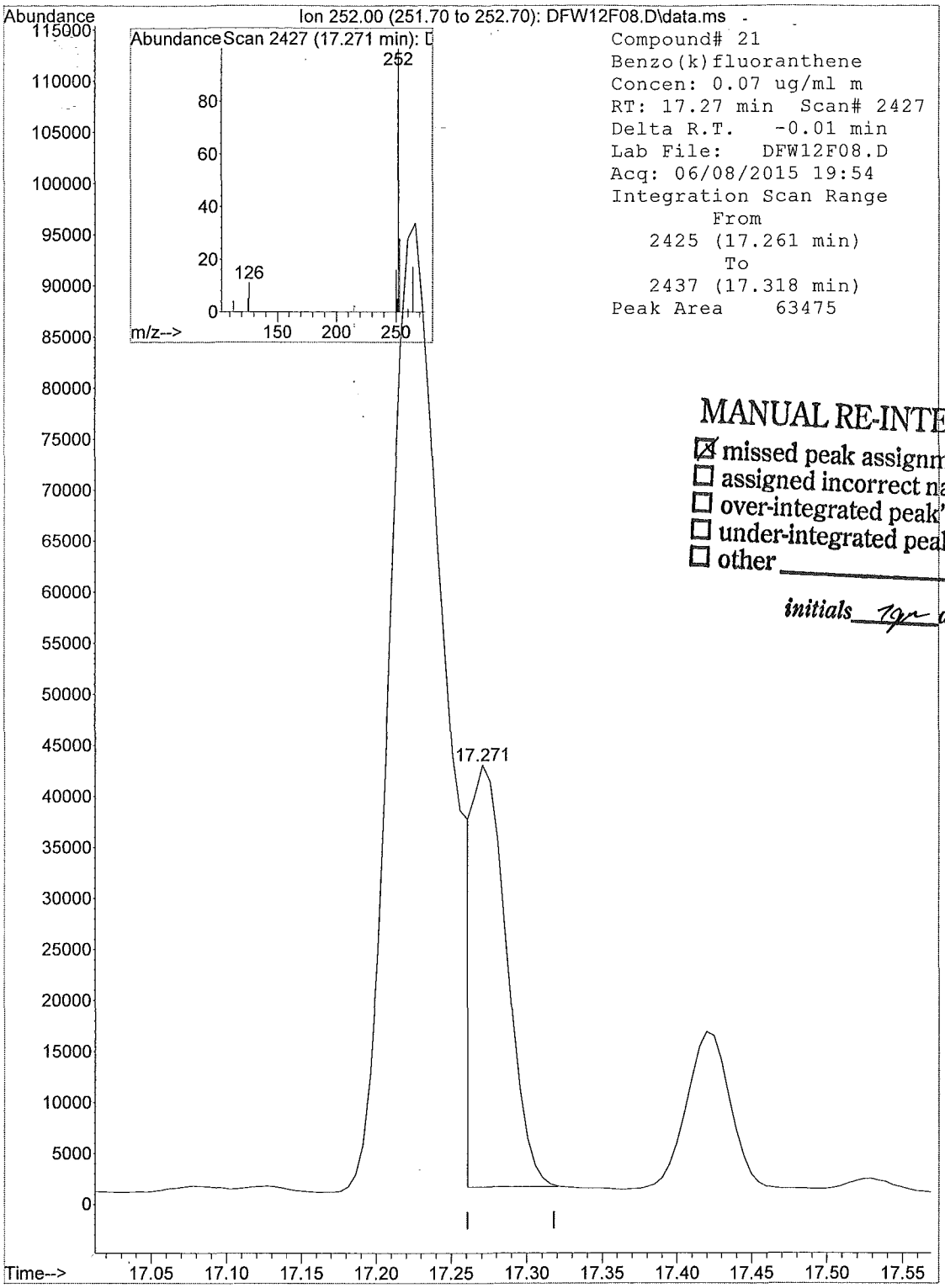


MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials _____ date 7.16.15

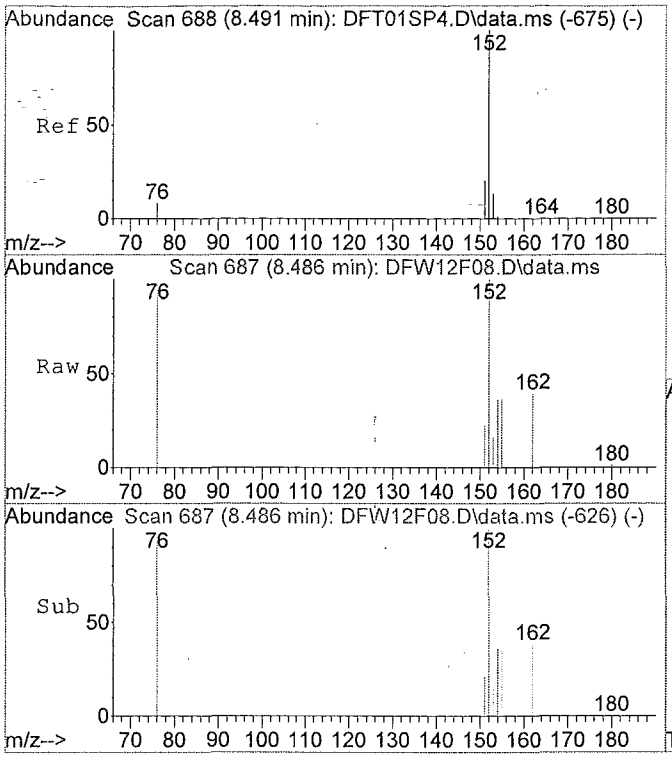
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- [x] missed peak assignment
- [ ] assigned incorrect name to peak
- [ ] over-integrated peak's area
- [ ] under-integrated peak's area
- [ ] other _____

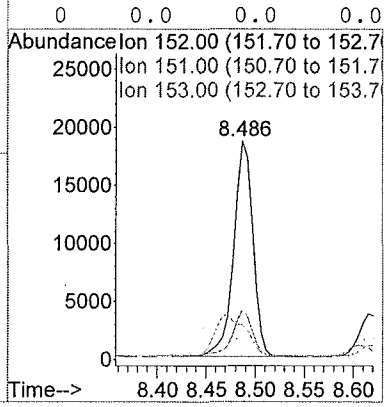
initials TJ *date* 7.16.15

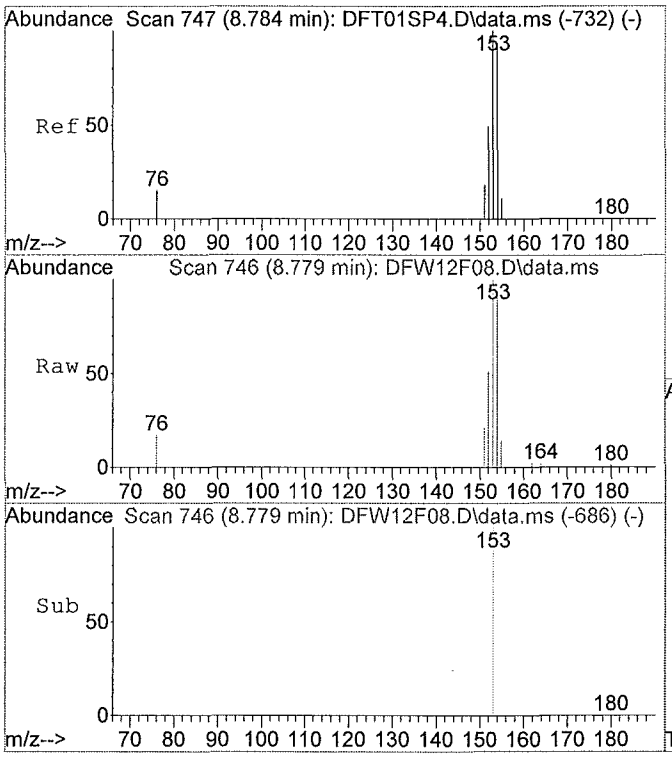


#6
Acenaphthylene
Concen: 0.04 ug/ml
RT: 8.49 min Scan# 687
Delta R.T. -0.00 min
Lab File: DFW12F08.D
Acq: 06/08/2015 19:54

Tgt Ion:152 Resp: 25330

Ion	Ratio	Lower	Upper
152	100		
151	21.2	15.5	28.7
153	31.1	8.8	16.4#
0	0.0	0.0	0.0

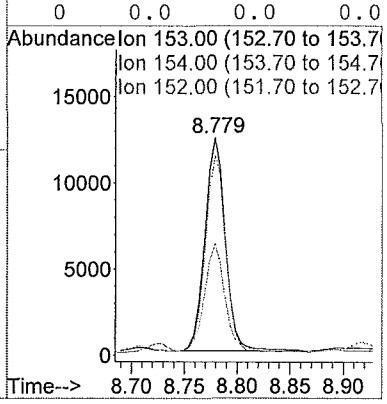


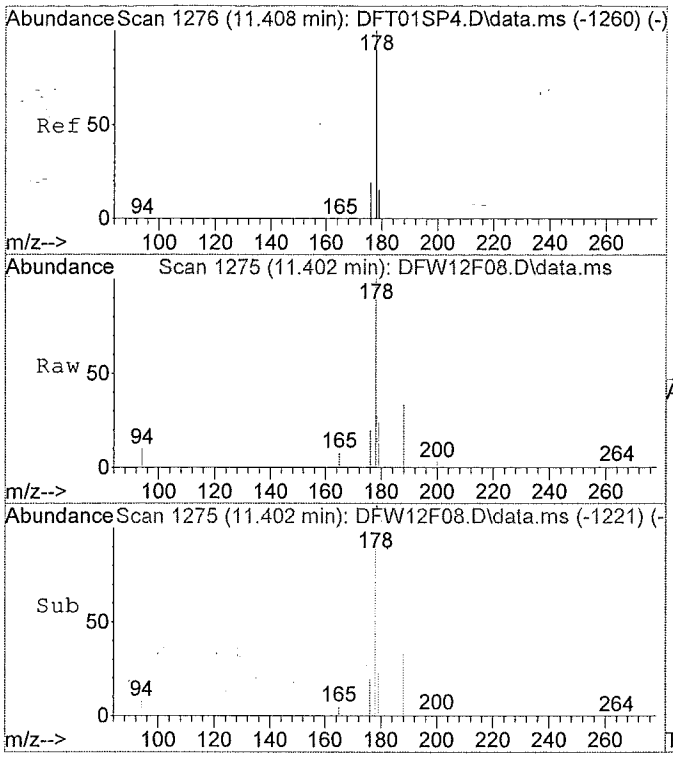


#7
Acenaphthene
Concen: 0.04 ug/ml
RT: 8.78 min Scan# 746
Delta R.T. -0.00 min
Lab File: DFW12F08.D
Acq: 06/08/2015 19:54

Tgt Ion:153 Resp: 16813

Ion	Ratio	Lower	Upper
153	100		
154	90.3	65.1	120.9
152	49.6	35.2	65.4
0	0.0	0.0	0.0

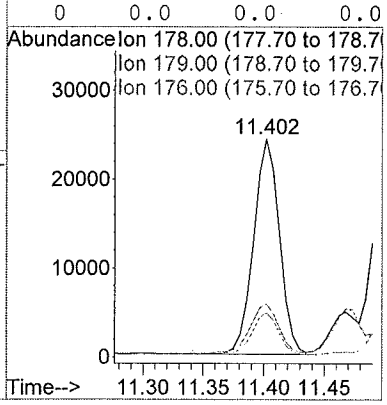


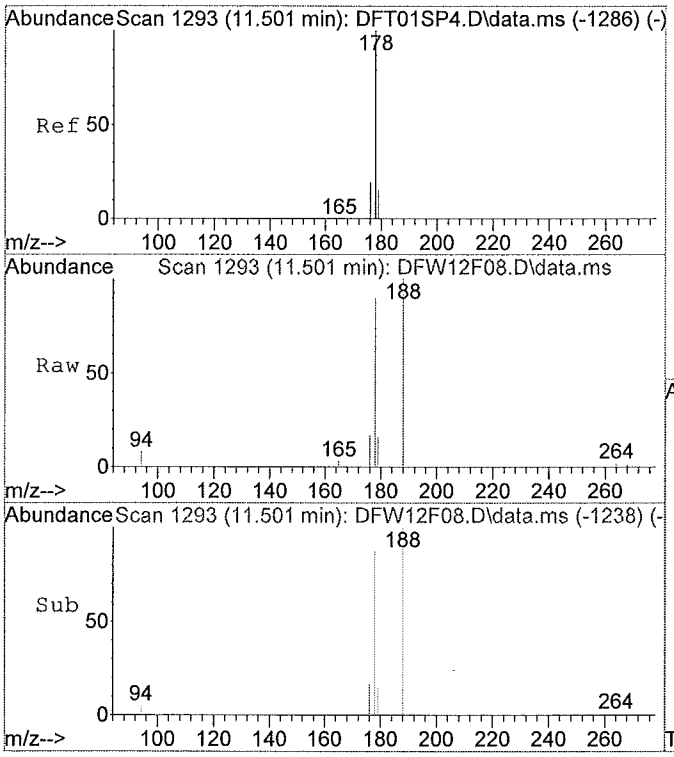


#11
Phenanthrene
Concen: 0.04 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFW12F08.D
Acq: 06/08/2015 19:54

Tgt Ion:178 Resp: 35918

Ion	Ratio	Lower	Upper
178	100		
179	25.7	11.1	20.5#
176	20.2	14.1	26.1
0	0.0	0.0	0.0

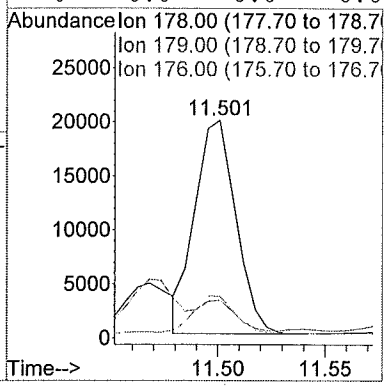


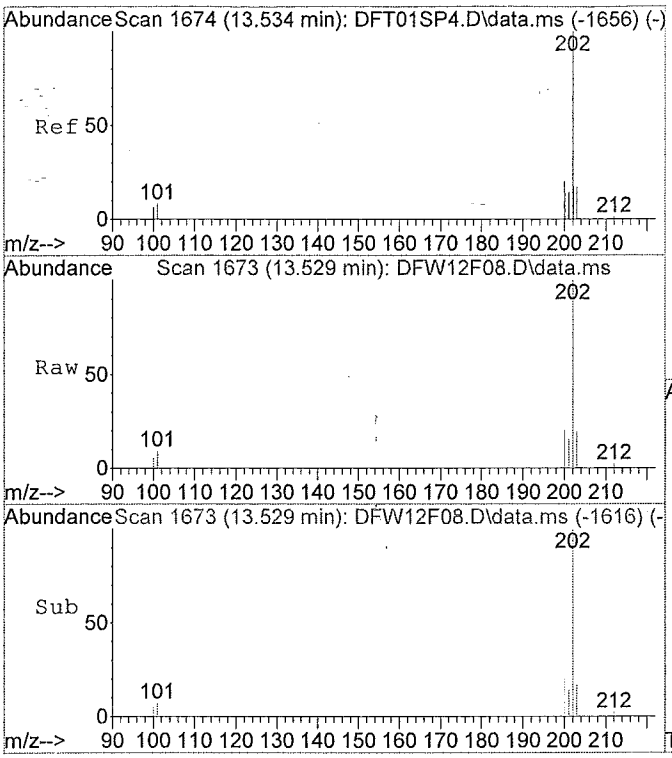


#12
Anthracene
Concen: 0.03 ug/ml
RT: 11.50 min Scan# 1293
Delta R.T. -0.00 min
Lab File: DFW12F08.D
Acq: 06/08/2015 19:54

Tgt Ion:178 Resp: 26455

Ion	Ratio	Lower	Upper
178	100		
179	12.1	11.6	21.6
176	21.4	13.9	25.7
0	0.0	0.0	0.0

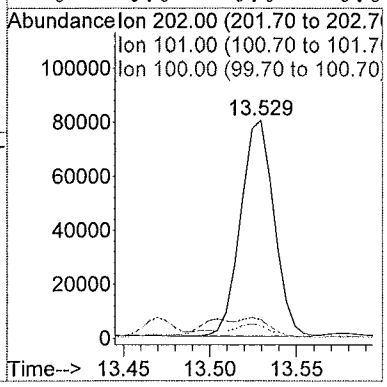


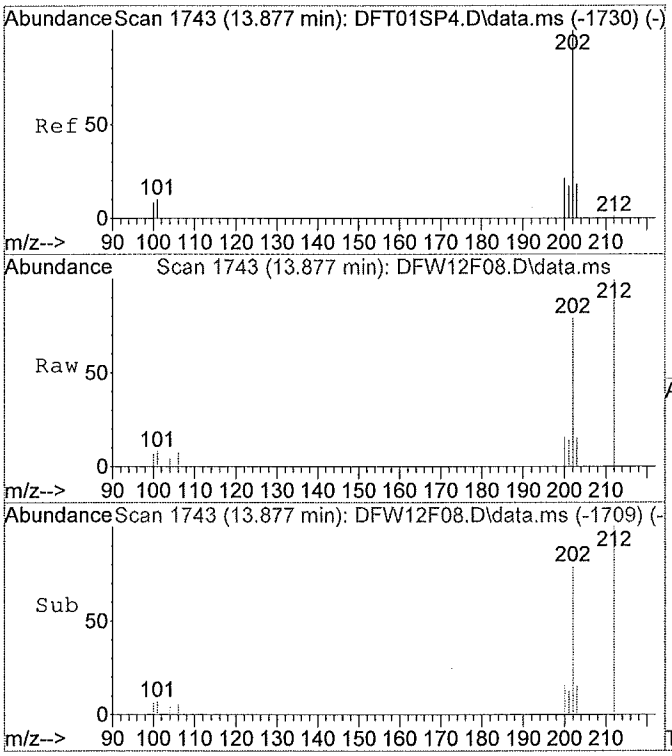


#14
Fluoranthene
Concen: 0.11 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFW12F08.D
Acq: 06/08/2015 19:54

Tgt Ion:202 Resp: 106568

Ion	Ratio	Lower	Upper
202	100		
101	0.0	9.4	17.6#
100	6.1	0.0	0.0#
0	0.0	0.0	0.0

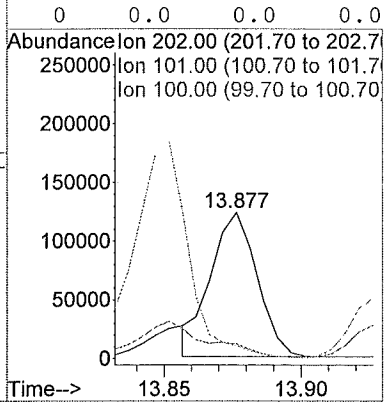


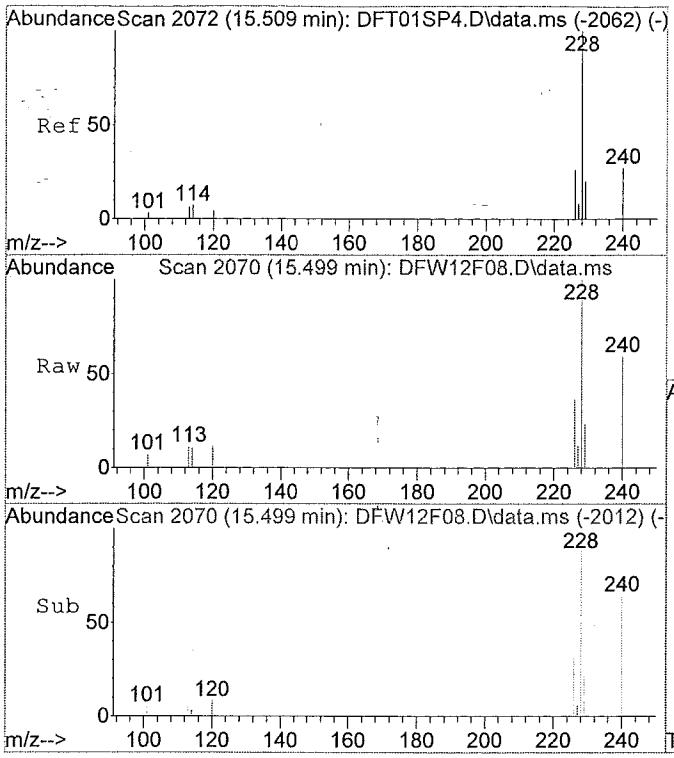


#16
Pyrene
Concen: 0.16 ug/ml m
RT: 13.88 min Scan# 1743
Delta R.T. -0.00 min
Lab File: DFW12F08.D
Acq: 06/08/2015 19:54

Tgt Ion:202 Resp: 144631

Ion	Ratio	Lower	Upper
202	100		
101	42.9	10.6	19.6#
100	195.6	9.4	17.4#
0	0.0	0.0	0.0

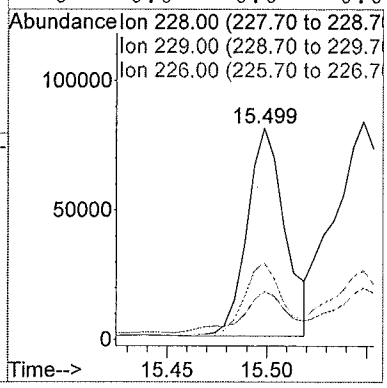


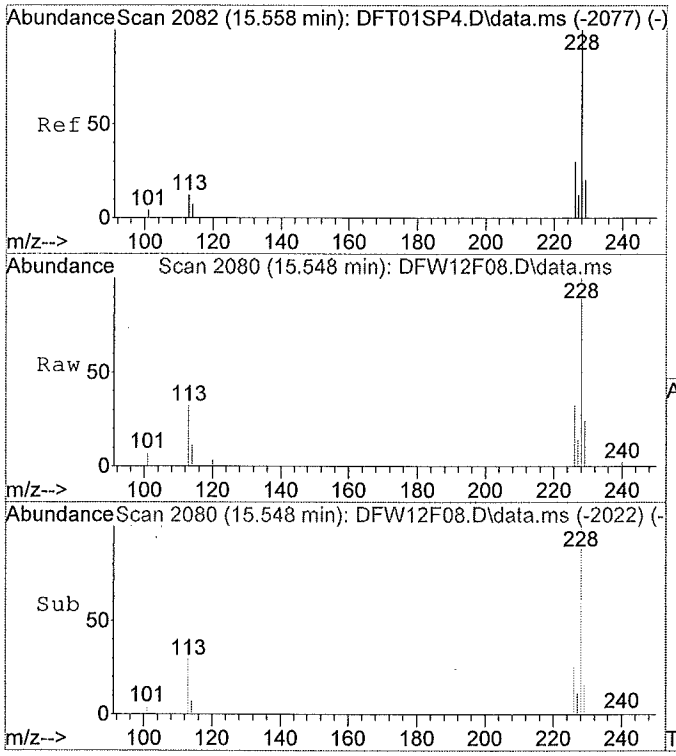


#17
Benzo(a)anthracene
Concen: 0.14 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFW12F08.D
Acq: 06/08/2015 19:54

Tgt Ion:228 Resp: 106666

Ion	Ratio	Lower	Upper
228	100		
229	23.8	14.5	26.9
226	33.9	18.5	34.3
0	0.0	0.0	0.0

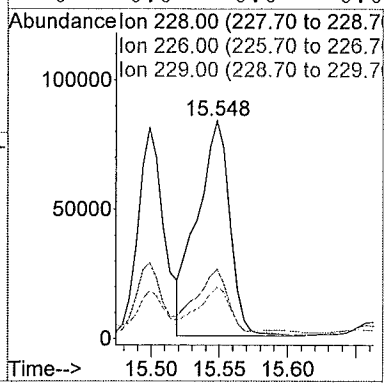


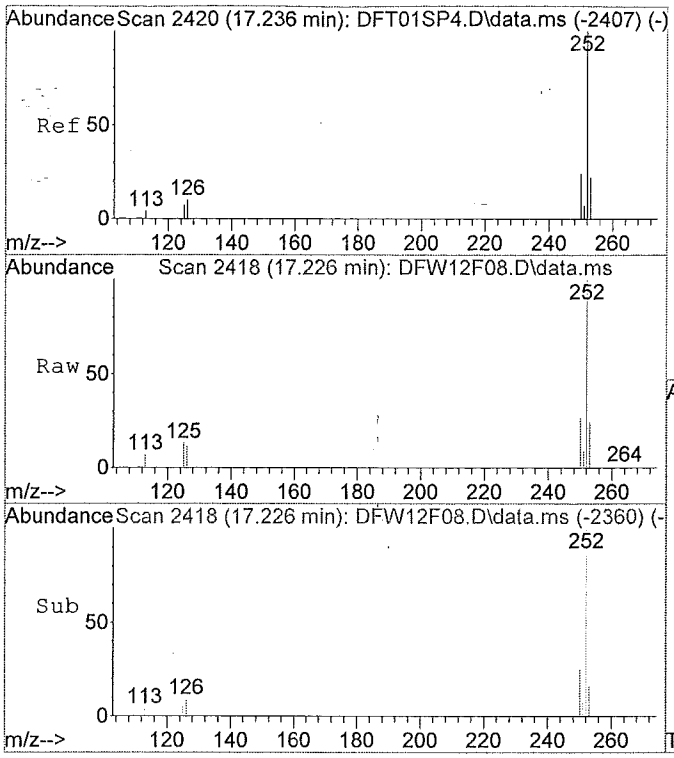


#18
Chrysene
Concen: 0.17 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFW12F08.D
Acq: 06/08/2015 19:54

Tgt Ion:228 Resp: 140242

Ion	Ratio	Lower	Upper
228	100		
226	30.7	19.7	36.7
229	20.7	14.5	26.9
0	0.0	0.0	0.0

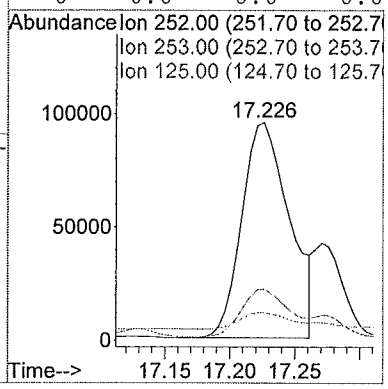


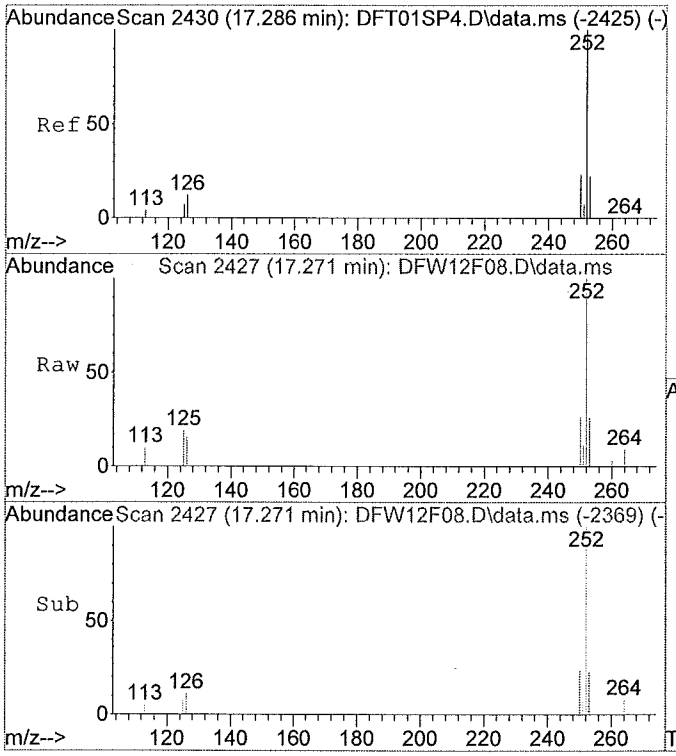


#20
Benzo(b)fluoranthene
Concen: 0.26 ug/ml
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DFW12F08.D
Acq: 06/08/2015 19:54

Tgt Ion:252 Resp: 242487

Ion	Ratio	Lower	Upper
252	100		
253	22.3	15.3	28.3
125	8.1	0.0	0.0#
0	0.0	0.0	0.0

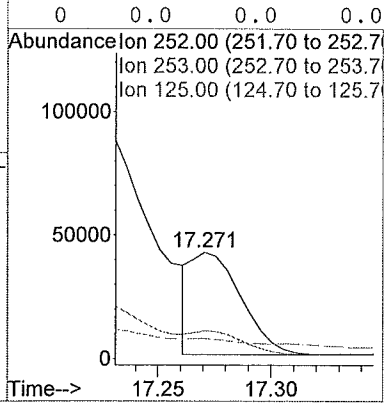


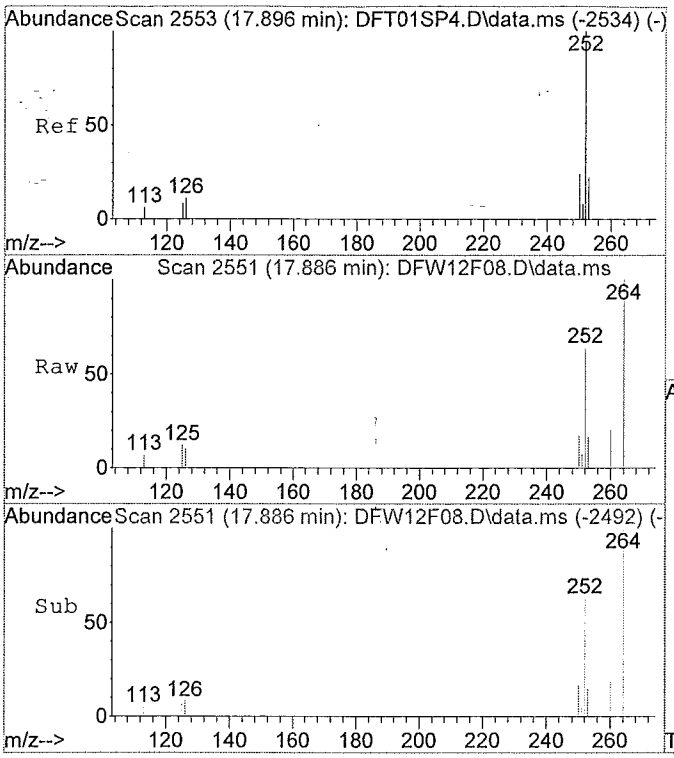


#21
Benzo(k)fluoranthene
Concen: 0.07 ug/ml m
RT: 17.27 min Scan# 2427
Delta R.T. -0.01 min
Lab File: DFW12F08.D
Acq: 06/08/2015 19:54

Tgt Ion:252 Resp: 63475

Ion	Ratio	Lower	Upper
252	100		
253	85.2	15.0	27.8#
125	30.8	0.0	0.0#
0	0.0	0.0	0.0

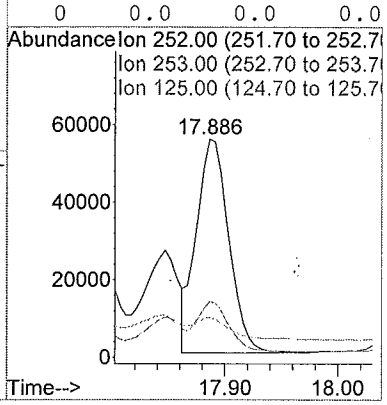


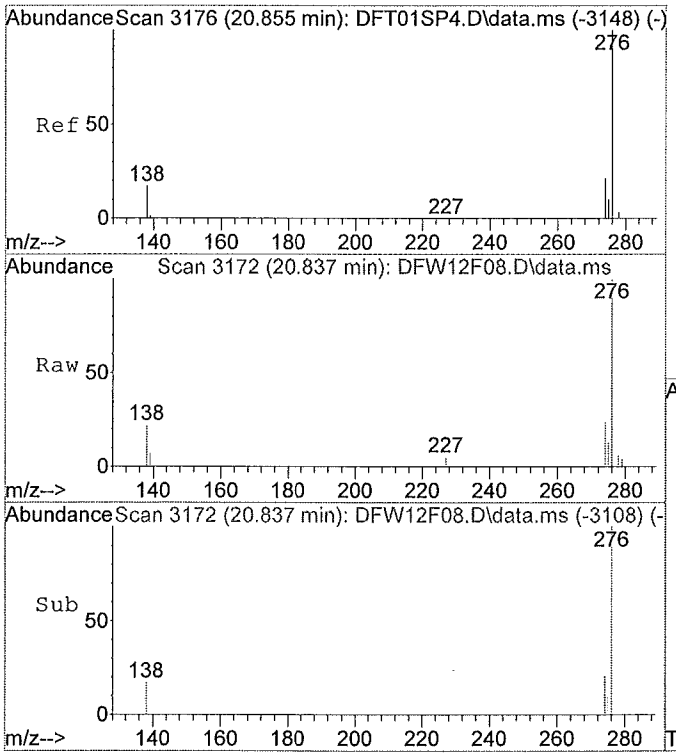


#22
Benzo(a)pyrene
Concen: 0.12 ug/ml
RT: 17.89 min Scan# 2551
Delta R.T. -0.00 min
Lab File: DFW12F08.D
Acq: 06/08/2015 19:54

Tgt Ion:252 Resp: 110770

Ion	Ratio	Lower	Upper
252	100		
253	23.0	15.0	27.8
125	11.7	0.0	0.0#
0	0.0	0.0	0.0

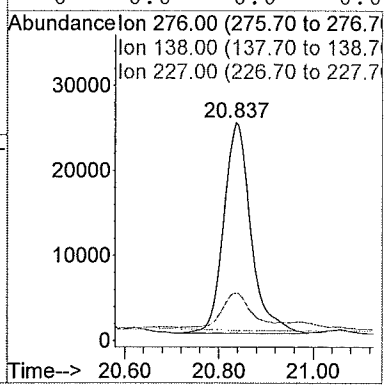


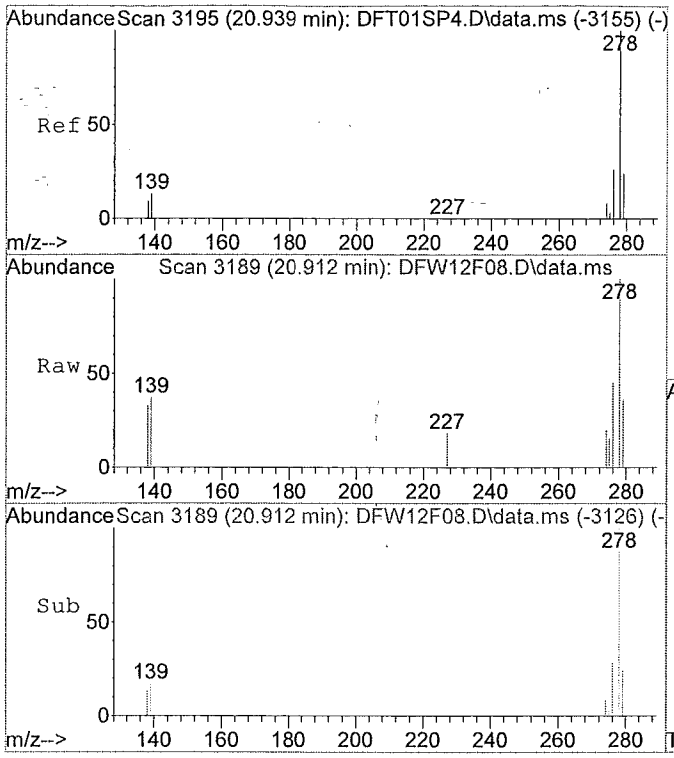


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.13 ug/ml
RT: 20.84 min Scan# 3172
Delta R.T. -0.01 min
Lab File: DFW12F08.D
Acq: 06/08/2015 19:54

Tgt Ion:276 Resp: 98074

Ion	Ratio	Lower	Upper
276	100		
138	15.2	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

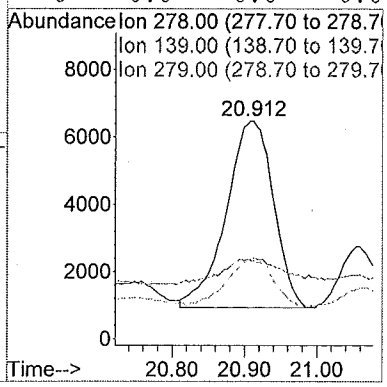


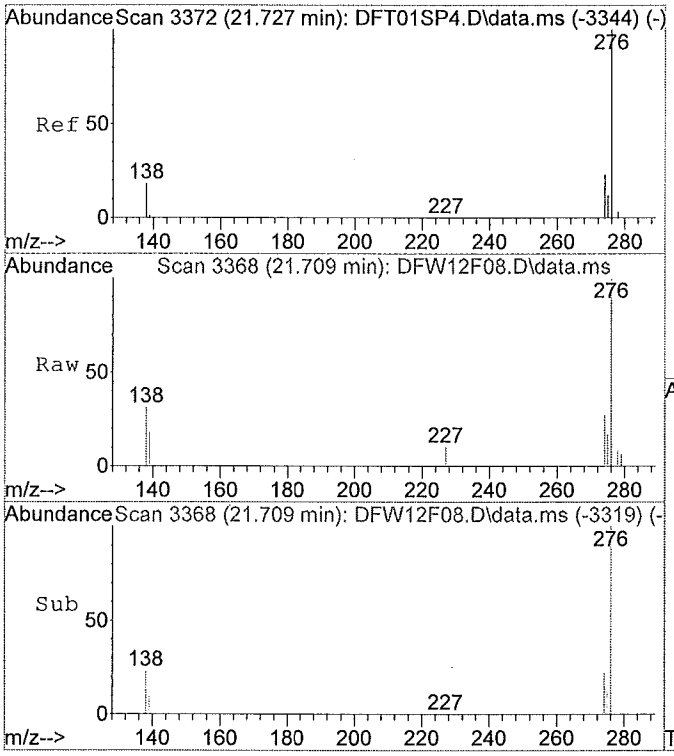


#24
Dibenzo(a,h)anthracene
Concen: 0.03 ug/ml
RT: 20.91 min Scan# 3189
Delta R.T. -0.02 min
Lab File: DFW12F08.D
Acq: 06/08/2015 19:54

Tgt Ion:278 Resp: 25128

Ion	Ratio	Lower	Upper
278	100		
139	13.6	0.0	0.0#
279	24.9	15.8	29.3
0	0.0	0.0	0.0

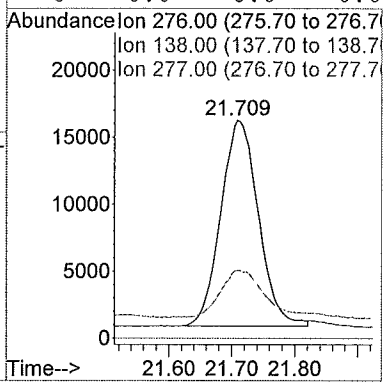




#25
Benzo(g,h,i)perylene
Concen: 0.07 ug/ml
RT: 21.71 min Scan# 3368
Delta R.T. -0.01 min
Lab File: DFW12F08.D
Acq: 06/08/2015 19:54

Tgt Ion:276 Resp: 63271

Ion	Ratio	Lower	Upper
276	100		
138	29.0	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.: F9L66

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293009

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFW13F09

Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/08/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.9	U
91-57-6	2-Methylnaphthalene	3.9	U
208-96-8	Acenaphthylene	3.9	U
83-32-9	Acenaphthene	3.9	U
86-73-7	Fluorene	3.9	U
87-86-5	Pentachlorophenol	7.8	U
85-01-8	Phenanthrene	1.3	J
120-12-7	Anthracene	3.9	U
206-44-0	Fluoranthene	4.0	
129-00-0	Pyrene	4.5	
56-55-3	Benzo(a)anthracene	3.9	
218-01-9	Chrysene	5.0	
205-99-2	Benzo(b)fluoranthene	5.4	
207-08-9	Benzo(k)fluoranthene	1.3	J
50-32-8	Benzo(a)pyrene	3.4	J
193-39-5	Indeno(1,2,3-cd)pyrene	2.7	J
53-70-3	Dibenzo(a,h)anthracene	3.9	U
191-24-2	Benzo(g,h,i)perylene	1.7	J

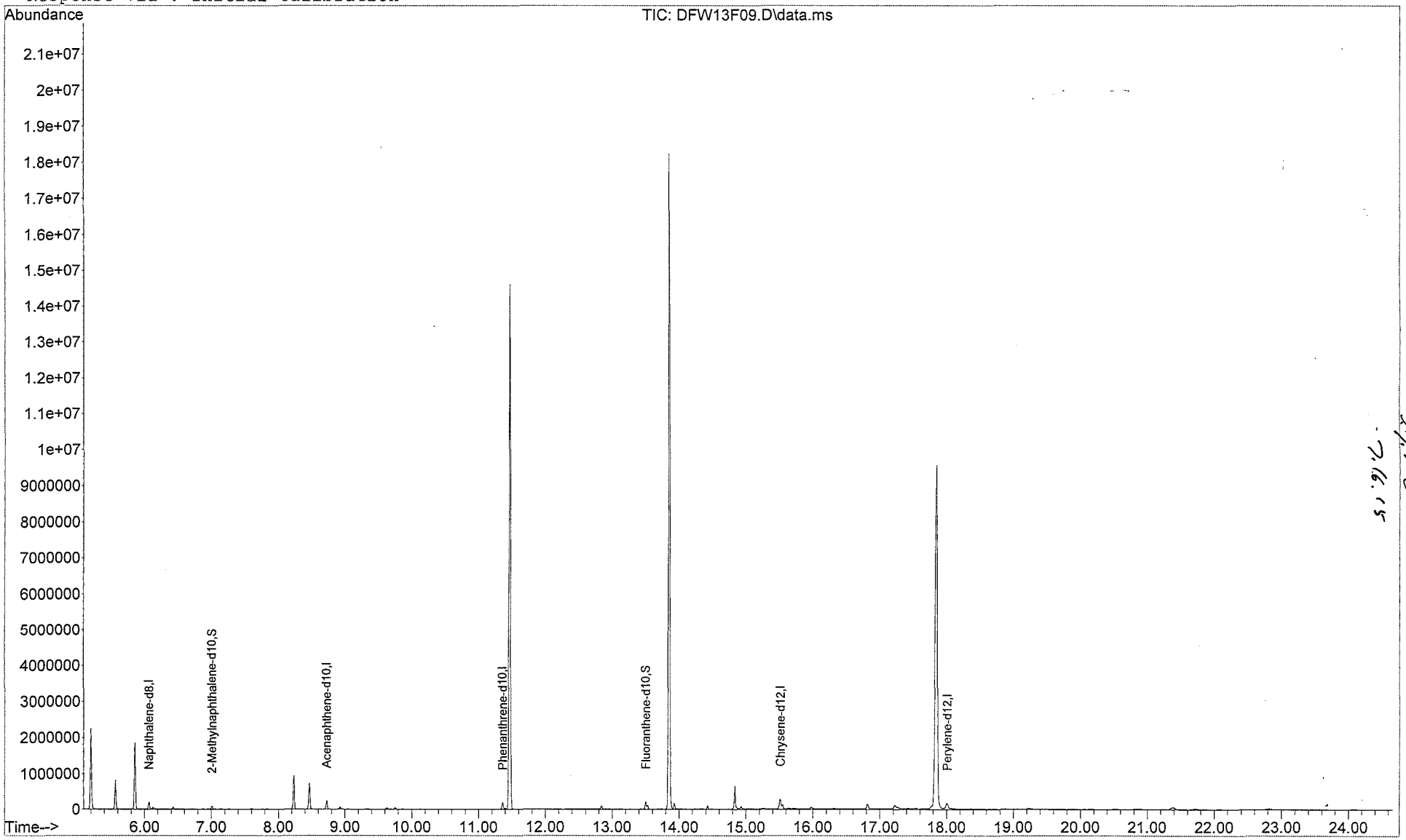
Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW13F09.D
Acq On : 06/08/2015 20:24
Sample : 1514293009 F9L66
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 12
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 15:00:11 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

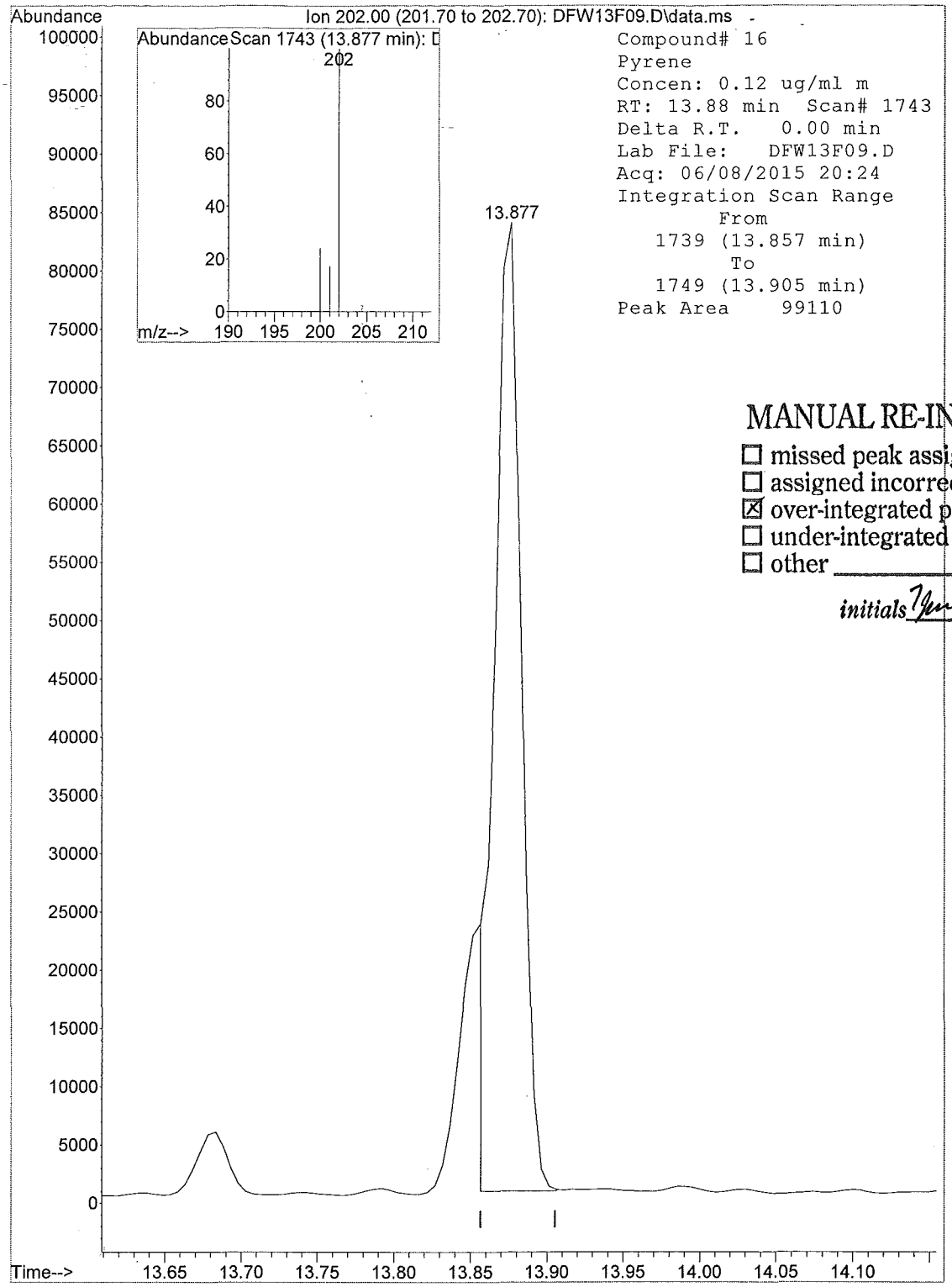
Data File : R:\D\2015\JUN15\08JUN15\DFW13F09.D Vial: 12
Acq On : 06/08/2015 20:24 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 15:00:11 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.06	136	223753	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	156994	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	266266	0.40 ug/ml	
15) Chrysene-d12	15.51	240	273028	0.40 ug/ml	
19) Perylene-d12	18.01	264	295476	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	97033	0.269ug/mL	
13) Fluoranthene-d10	13.50	212	232611	0.319ug/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	25007	0.033ug/ml	92
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.52	202	89735	0.103ug/ml	93
16) Pyrene	13.88	202	99110	0.116ug/ml m	1 7.16.15
17) Benzo(a)anthracene	15.50	228	73545	0.101ug/ml	93
18) Chrysene	15.55	228	98553	0.128ug/ml	97
20) Benzo(b)fluoranthene	17.22	252	127665	0.139ug/ml	98
21) Benzo(k)fluoranthene	17.27	252	32868	0.034ug/ml m	97 7.16.15
22) Benzo(a)pyrene	17.89	252	76099	0.086ug/ml	80
23) Indeno(1,2,3-c,d)pyrene	20.84	276	54396	0.071ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	21.71	276	36848	0.043ug/ml	42

(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 Pyrene

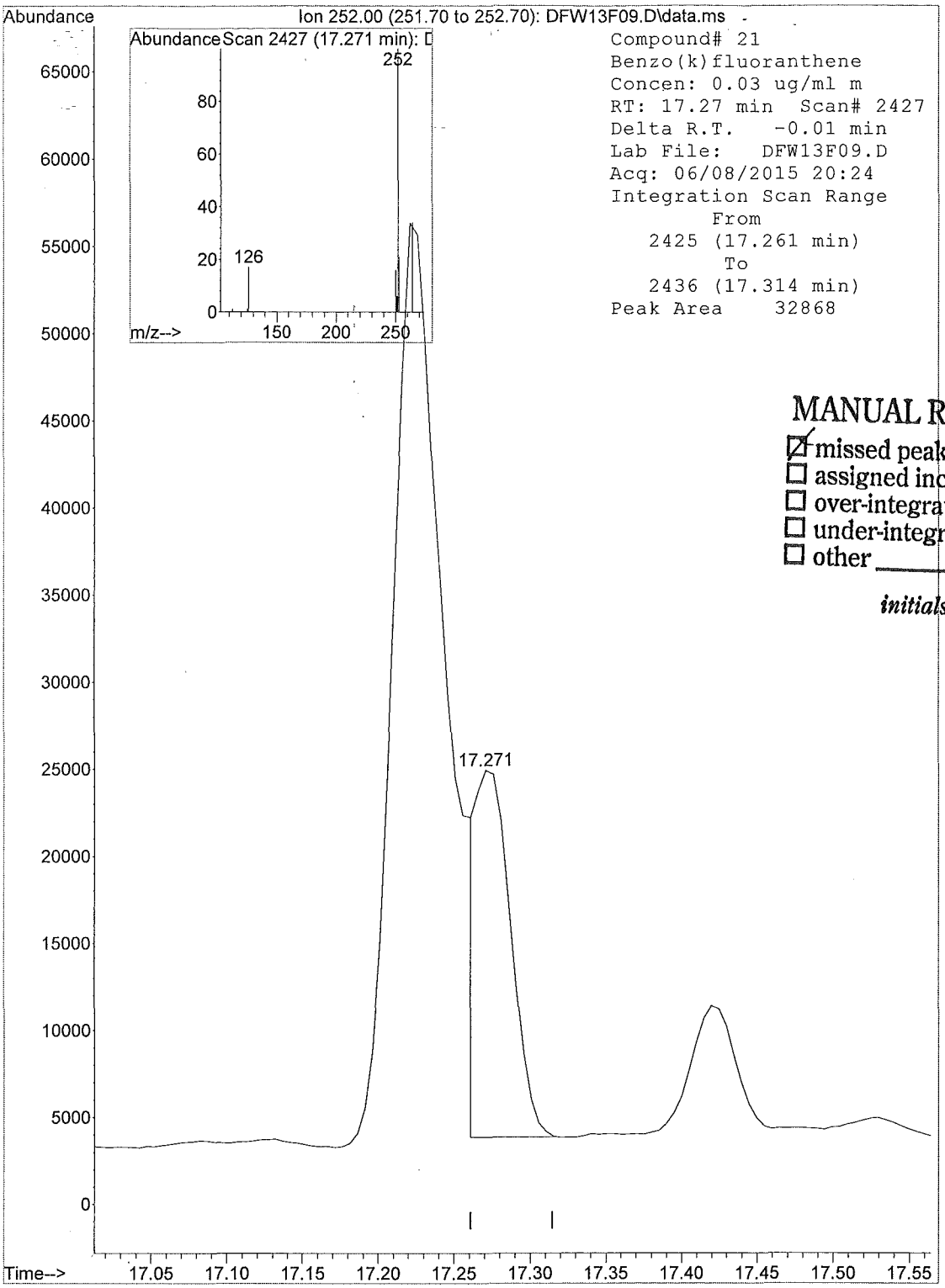


MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials Jm *date* 7.16.15

M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene

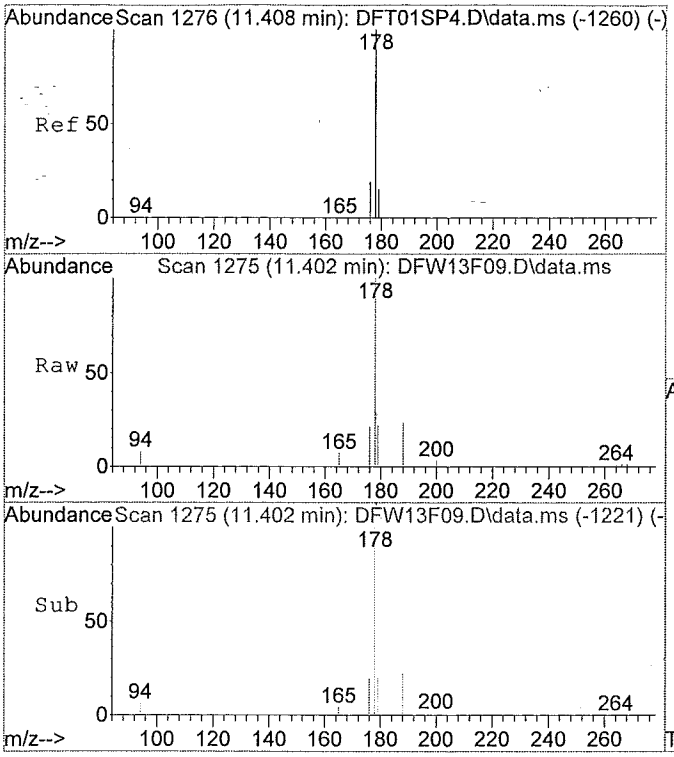


MANUAL RE-INTEGRATION

- ☑ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials 7gm *date* 7.16.15

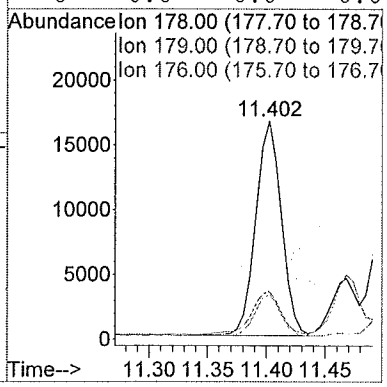
DSOM_SIMJ2.M 5975-D DSOM_SIMJ2.M 1514293009 F9L66 . SOIL SIM

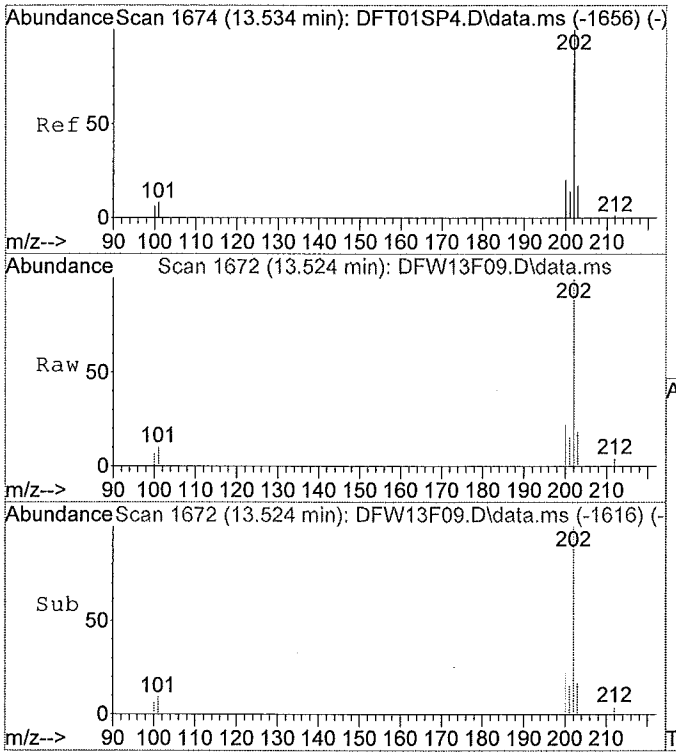


#11
Phenanthrene
Concen: 0.03 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFW13F09.D
Acq: 06/08/2015 20:24

Tgt Ion:178 Resp: 25007

Ion	Ratio	Lower	Upper
178	100		
179	23.0	11.1	20.5#
176	20.1	14.1	26.1
0	0.0	0.0	0.0

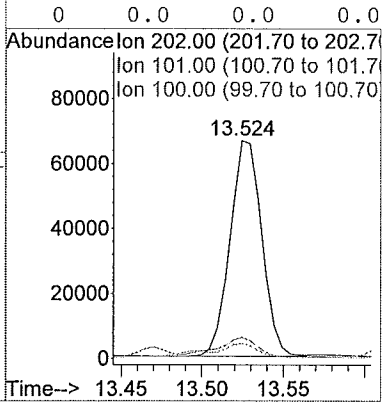


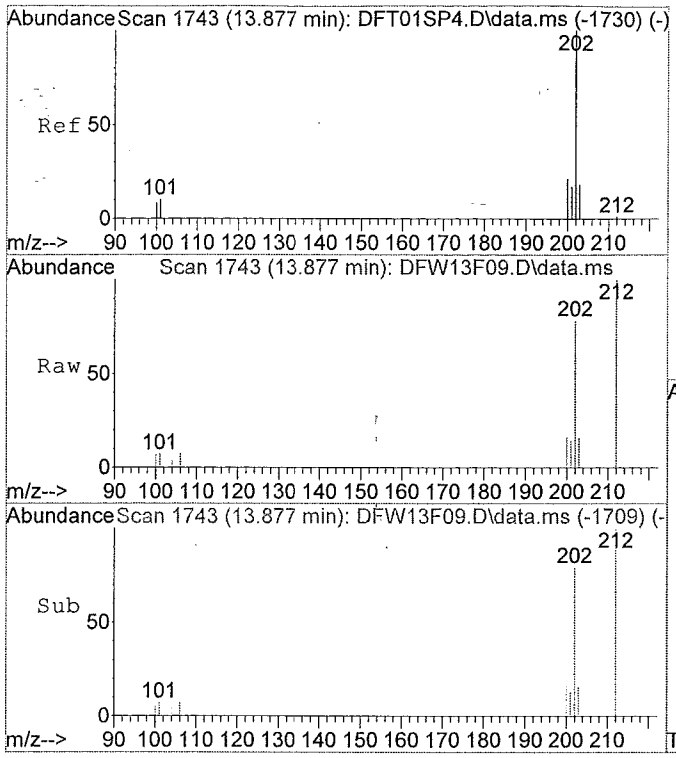


#14
Fluoranthene
Concen: 0.10 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DFW13F09.D
Acq: 06/08/2015 20:24

Tgt Ion:202 Resp: 89735

Ion	Ratio	Lower	Upper
202	100		
101	10.7	9.4	17.6
100	6.6	0.0	0.0#
0	0.0	0.0	0.0

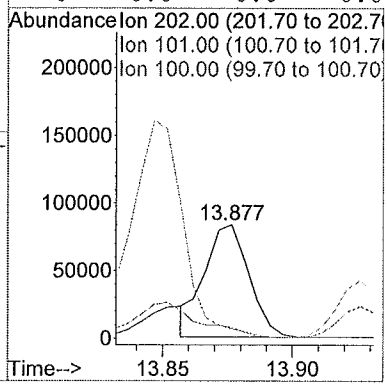


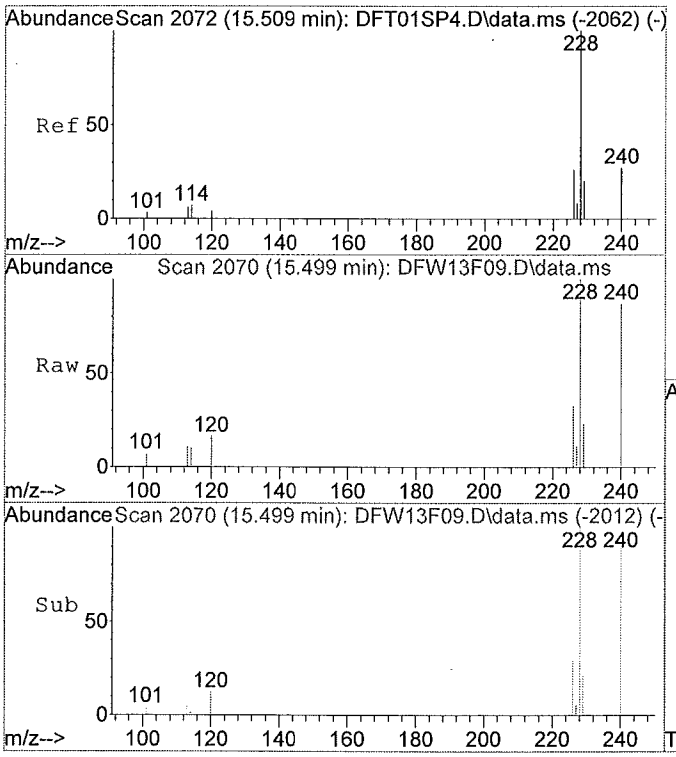


#16
Pyrene
Concen: 0.12 ug/ml m
RT: 13.88 min Scan# 1743
Delta R.T. 0.00 min
Lab File: DFW13F09.D
Acq: 06/08/2015 20:24

Tgt Ion:202 Resp: 99110

Ion	Ratio	Lower	Upper
202	100		
101	52.3	10.6	19.6#
100	253.7	9.4	17.4#
0	0.0	0.0	0.0

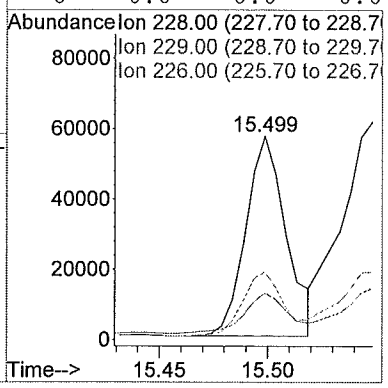


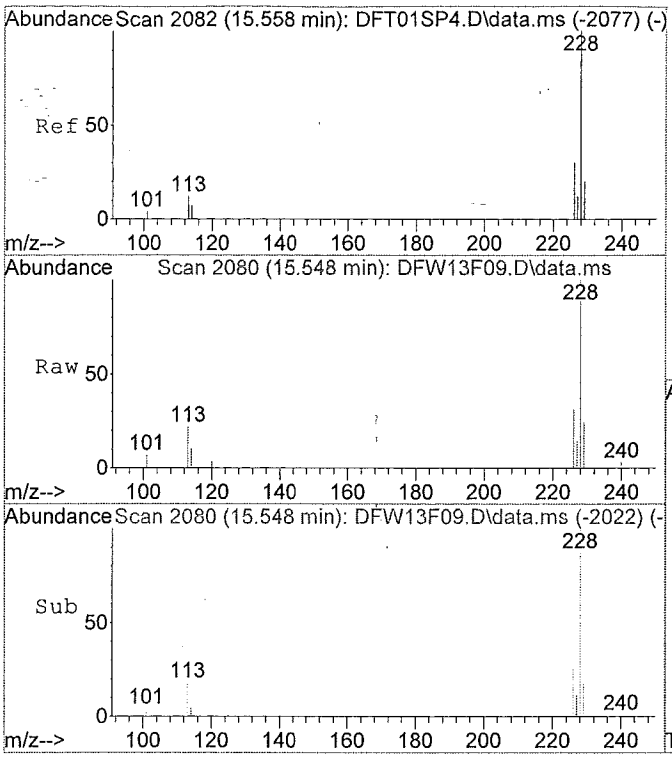


#17
Benzo(a)anthracene
Concen: 0.10 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFW13F09.D
Acq: 06/08/2015 20:24

Tgt Ion:228 Resp: 73545

Ion	Ratio	Lower	Upper
228	100		
229	22.0	14.5	26.9
226	31.7	18.5	34.3
0	0.0	0.0	0.0

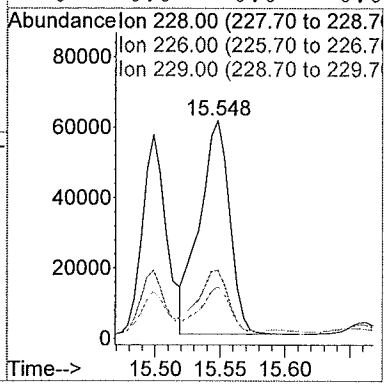


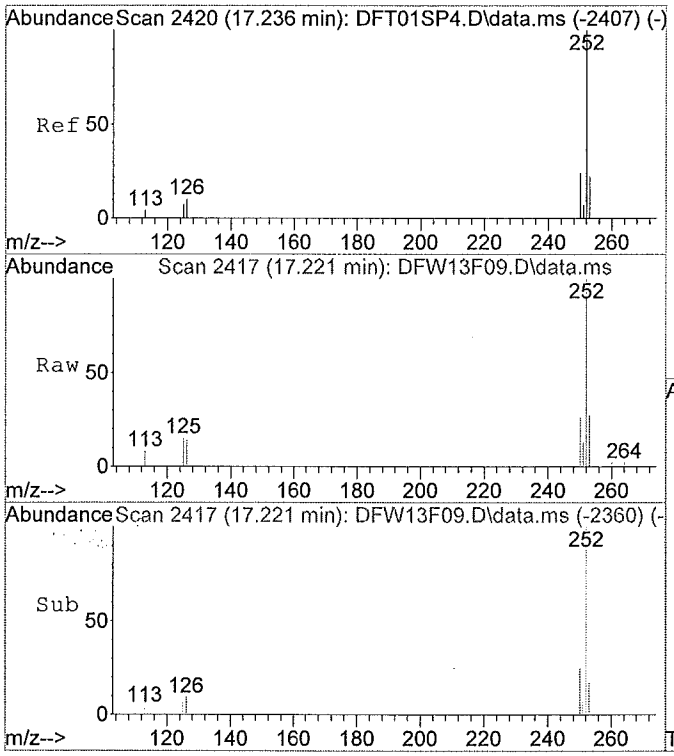


#18
Chrysene
Concen: 0.13 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFW13F09.D
Acq: 06/08/2015 20:24

Tgt Ion:228 Resp: 98553

Ion	Ratio	Lower	Upper
228	100		
226	31.0	19.7	36.7
229	20.5	14.5	26.9
0	0.0	0.0	0.0

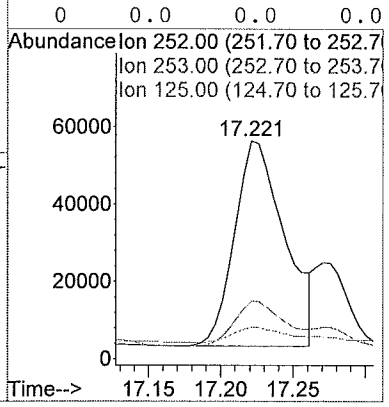


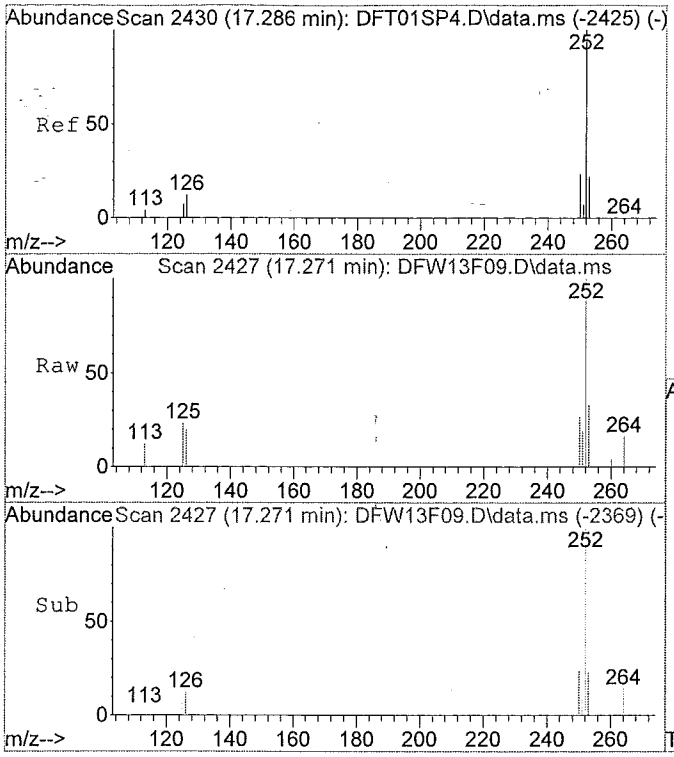


#20
Benzo(b)fluoranthene
Concen: 0.14 ug/ml
RT: 17.22 min Scan# 2417
Delta R.T. -0.01 min
Lab File: DFW13F09.D
Acq: 06/08/2015 20:24

Tgt Ion:252 Resp: 127665

Ion	Ratio	Lower	Upper
252	100		
253	22.7	15.3	28.3
125	7.9	0.0	0.0#
0	0.0	0.0	0.0

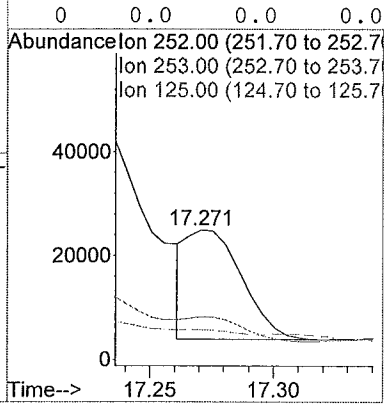


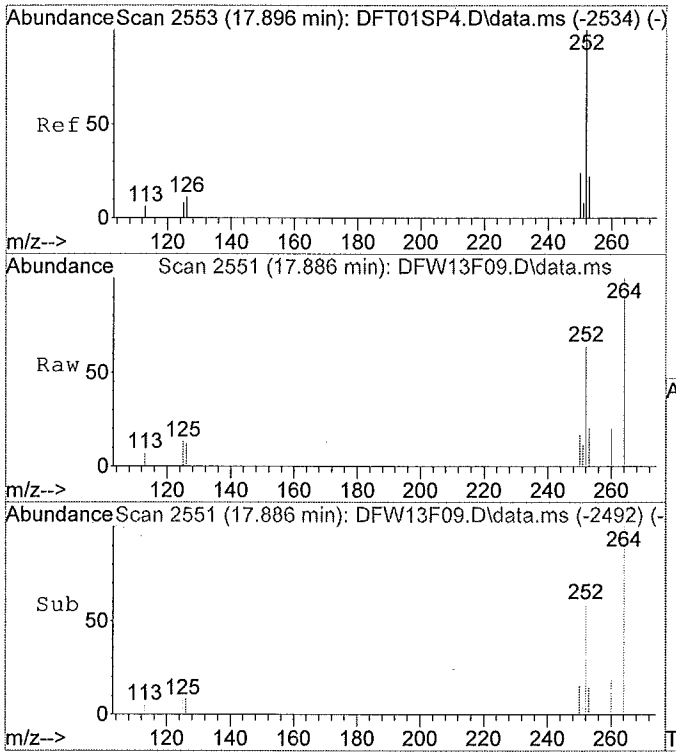


#21
Benzo(k)fluoranthene
Concen: 0.03 ug/ml m
RT: 17.27 min Scan# 2427
Delta R.T. -0.01 min
Lab File: DFW13F09.D
Acq: 06/08/2015 20:24

Tgt Ion:252 Resp: 32868

Ion	Ratio	Lower	Upper
252	100		
253	88.2	15.0	27.8#
125	30.8	0.0	0.0#
0	0.0	0.0	0.0

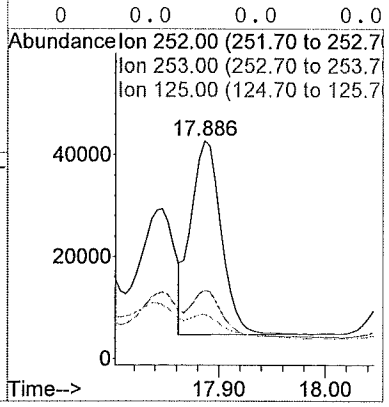


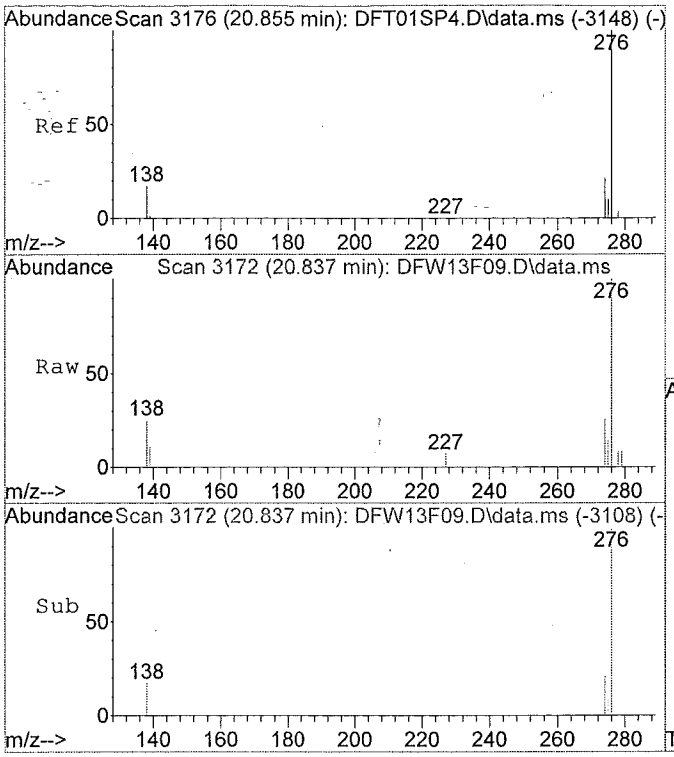


#22
Benzo(a)pyrene
Concen: 0.09 ug/ml
RT: 17.89 min Scan# 2551
Delta R.T. -0.00 min
Lab File: DFW13F09.D
Acq: 06/08/2015 20:24

Tgt Ion:252 Resp: 76099

Ion	Ratio	Lower	Upper
252	100		
253	30.7	15.0	27.8#
125	0.0	0.0	0.0
0	0.0	0.0	0.0

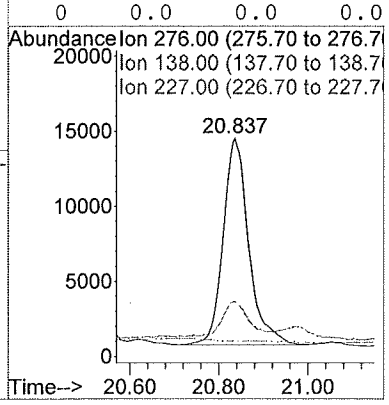


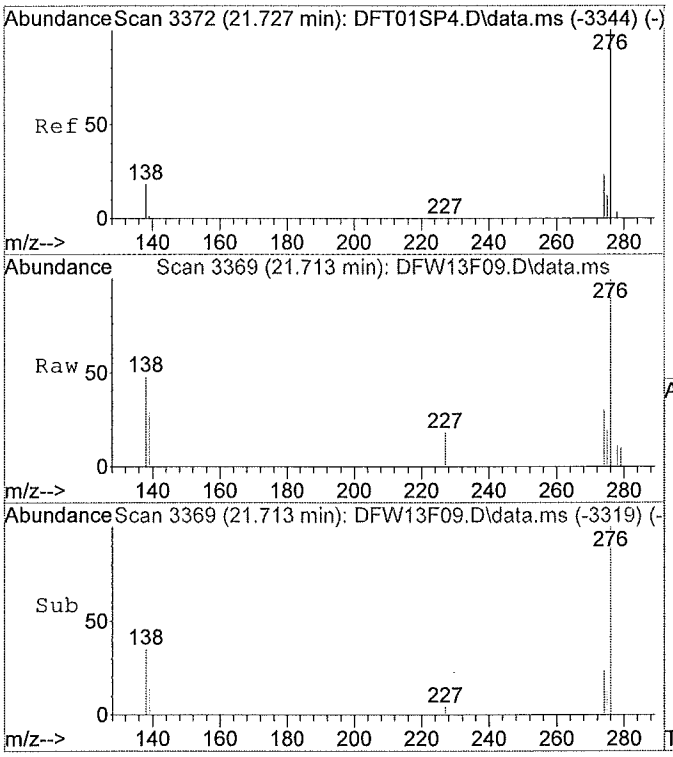


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.07 ug/ml
RT: 20.84 min Scan# 3172
Delta R.T. -0.01 min
Lab File: DFW13F09.D
Acq: 06/08/2015 20:24

Tgt Ion:276 Resp: 54396

Ion	Ratio	Lower	Upper
276	100		
138	15.4	0.0	0.0#
227	0.1	0.0	0.0#
0	0.0	0.0	0.0

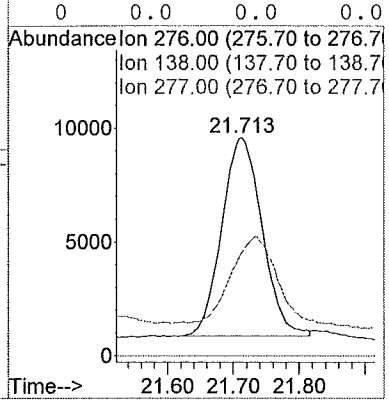




#25
Benzo(g,h,i)perylene
Concen: 0.04 ug/ml
RT: 21.71 min Scan# 3369
Delta R.T. -0.01 min
Lab File: DFW13F09.D
Acq: 06/08/2015 20:24

Tgt Ion:276 Resp: 36848

Ion	Ratio	Lower	Upper
276	100		
138	56.2	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:

F9L67

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293012

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFN09F12

Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/16/2015

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

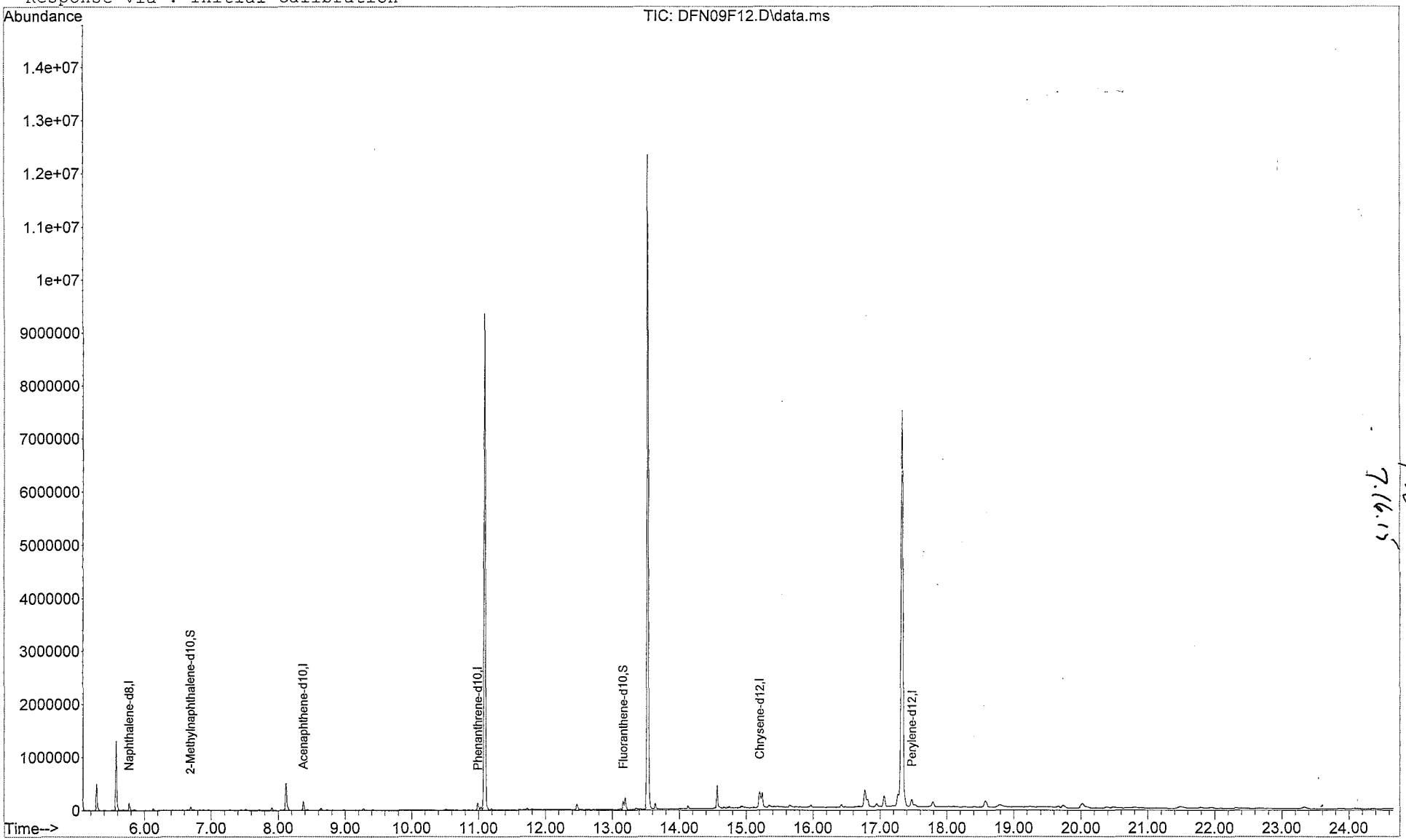
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.8	U
91-57-6	2-Methylnaphthalene	1.0	J
208-96-8	Acenaphthylene	3.5	J
83-32-9	Acenaphthene	0.96	J
86-73-7	Fluorene	3.8	U
87-86-5	Pentachlorophenol	7.8	U
85-01-8	Phenanthrene	4.5	
120-12-7	Anthracene	5.0	
206-44-0	Fluoranthene	11.	
129-00-0	Pyrene	12.	
56-55-3	Benzo(a)anthracene	11.	
218-01-9	Chrysene	16.	
205-99-2	Benzo(b)fluoranthene	23.	
207-08-9	Benzo(k)fluoranthene	5.5	
50-32-8	Benzo(a)pyrene	9.0	
193-39-5	Indeno(1,2,3-cd)pyrene	14.	
53-70-3	Dibenzo(a,h)anthracene	3.2	J
191-24-2	Benzo(g,h,i)perylene	2.1	J

Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN09F12.D
Vial: 19
Acq On : 07/16/2015 12:17
Operator: DJC
Sample : 1514293012 F9L67
Inst : 5975-D
Misc : . SOIL SIM
Injection volume : 1uL
MS Integration Params: rteint.p
Column Identifier: DB-5MS

Quant Time: Jul 16 14:05:51 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



7.16.15

Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN09F12.D Vial: 19
Acq On : 07/16/2015 12:17 Operator: DJC
Sample : 1514293012 F9L67 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 16 14:05:51 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

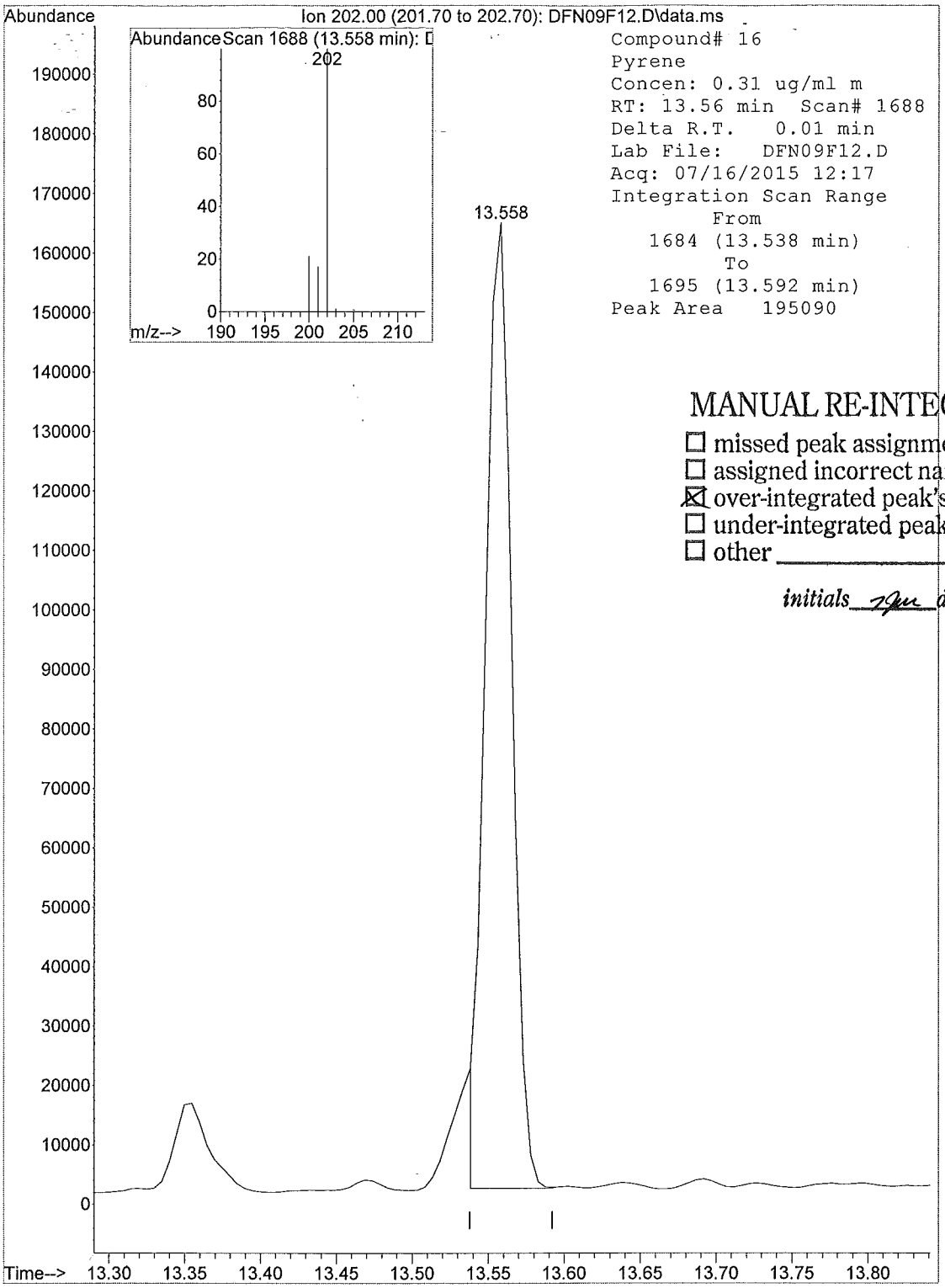
Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8'	5.78	136	150958	0.40 ug/ml
5) Acenaphthene-d10	8.38	164	105867	0.40 ug/ml
9) Phenanthrene-d10	10.99	188	174729	0.40 ug/ml
15) Chrysene-d12	15.21	240	198839	0.40 ug/ml
19) Perylene-d12	17.48	264	219866	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	6.69	152	63195	0.259ug/mL
13) Fluoranthene-d10	13.17	212	150478	0.315ug/mL

Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	6.74	142	6530	0.026ug/ml	100
6) Acenaphthylene	8.14	152	41294	0.089ug/ml	91
7) Acenaphthene	8.43	153	7371	0.025ug/ml	98
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.03	178	58518	0.116ug/ml	99
12) Anthracene	11.13	178	63156	0.129ug/ml	96
14) Fluoranthene	13.20	202	166301	0.290ug/ml	91
16) Pyrene	13.56	202	195090	0.313ug/ml m	6 7.16.15
17) Benzo(a)anthracene	15.20	228	154817	0.292ug/ml	86
18) Chrysene	15.24	228	229435	0.410ug/ml	97
20) Benzo(b)fluoranthene	16.78	252	402710	0.588ug/ml	98
21) Benzo(k)fluoranthene	16.82	252	101428	0.143ug/ml m	97 7.16.15
22) Benzo(a)pyrene	17.37	252	152098	0.232ug/ml	94
23) Indeno(1,2,3-c,d)pyrene	20.03	276	207401	0.362ug/ml	100
24) Dibenzo(a,h)anthracene	20.09	278	52206	0.082ug/ml	94
25) Benzo(g,h,i)perylene	20.82	276	35284	0.055ug/ml	71

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00778

M A N U A L I N T E G R A T I O N FOR Pyrene



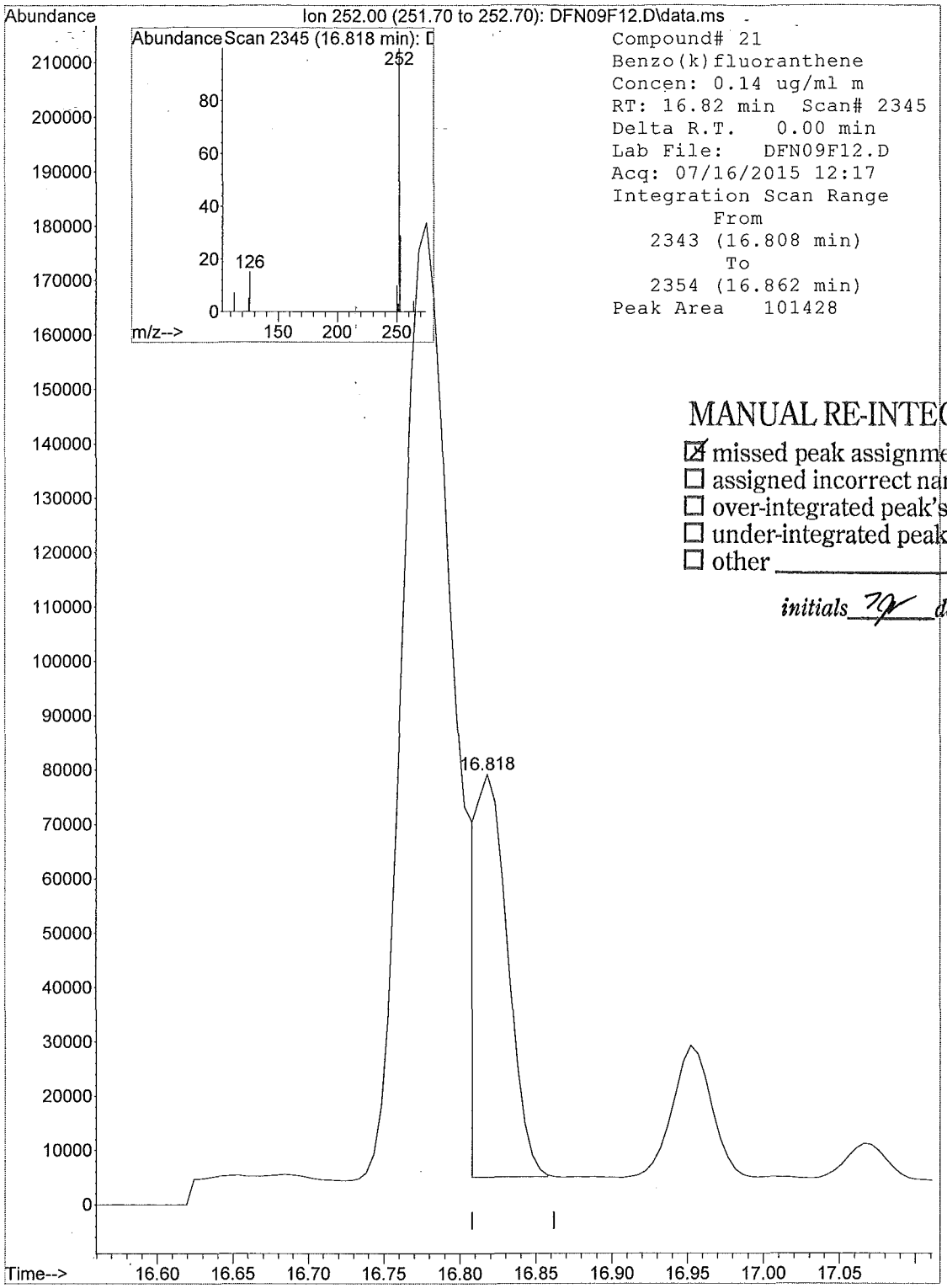
Compound# 16
Pyrene
Concen: 0.31 ug/ml m
RT: 13.56 min Scan# 1688
Delta R.T. 0.01 min
Lab File: DFN09F12.D
Acq: 07/16/2015 12:17
Integration Scan Range
From
1684 (13.538 min)
To
1695 (13.592 min)
Peak Area 195090

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials JGL *date* 7.16.15

M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene

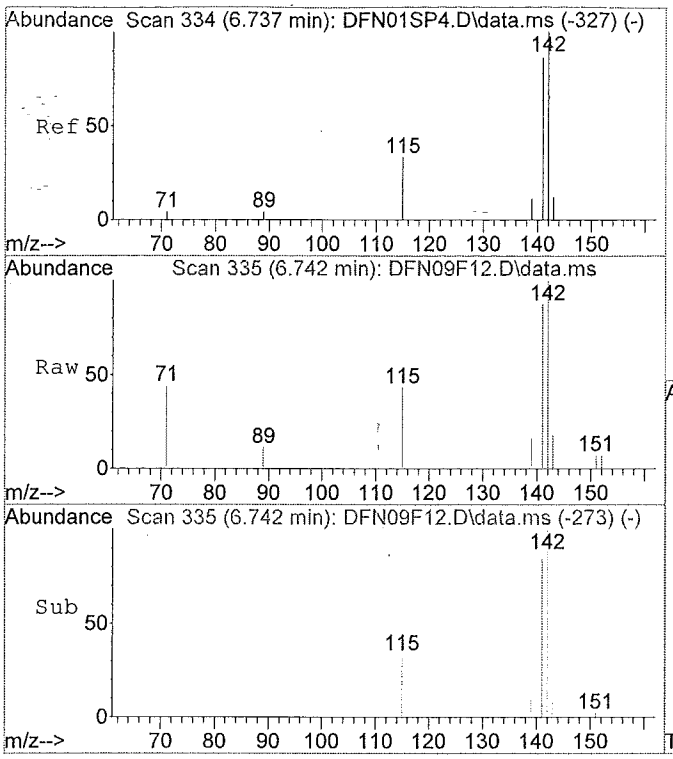


MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials TP *date* 7.16.15

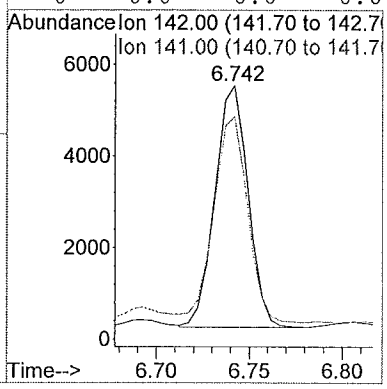
DSOM_SIMJ2.M 5975-D DSOM_SIMJ2.M 1514293012 F9L67 . SOIL SIM

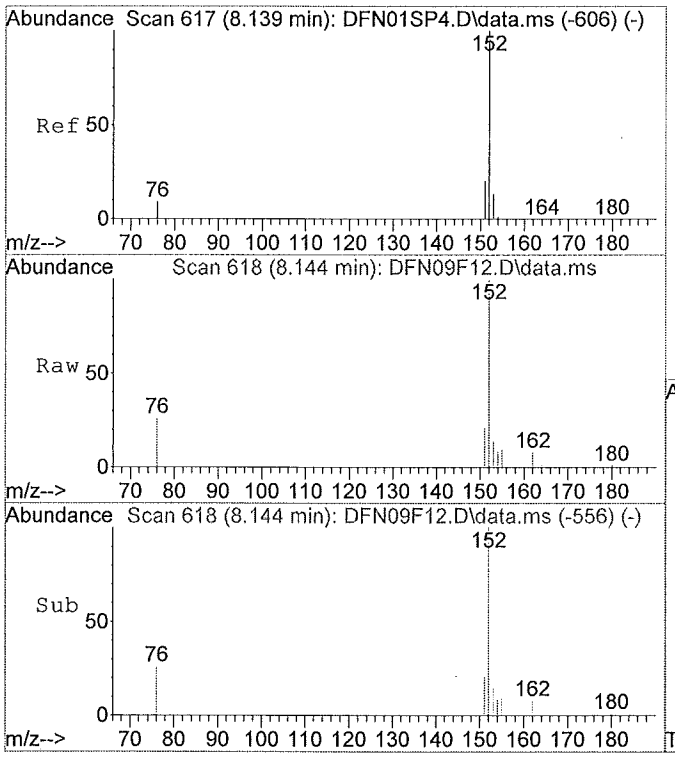


#4
2-Methylnaphthalene
Concen: 0.03 ug/ml
RT: 6.74 min Scan# 335
Delta R.T. 0.00 min
Lab File: DFN09F12.D
Acq: 07/16/2015 12:17

Tgt Ion:142 Resp: 6530

Ion	Ratio	Lower	Upper
142	100		
141	87.4	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

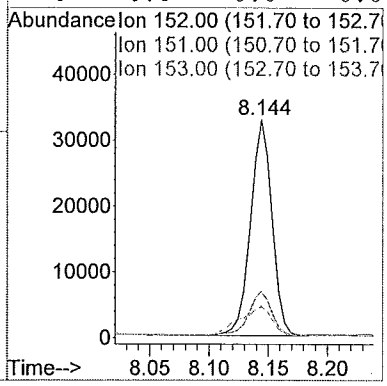


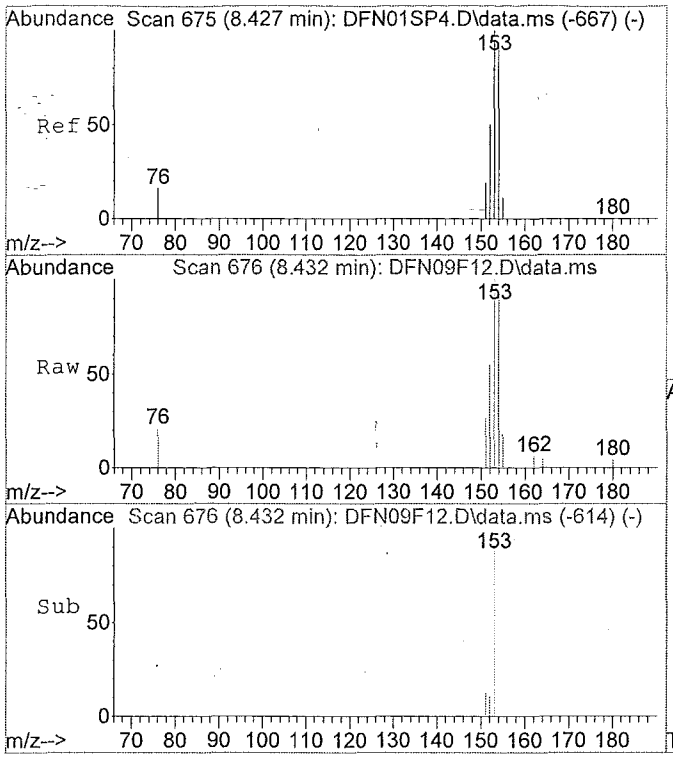


#6
Acenaphthylene
Concen: 0.09 ug/ml
RT: 8.14 min Scan# 618
Delta R.T. 0.00 min
Lab File: DFN09F12.D
Acq: 07/16/2015 12:17

Tgt Ion:152 Resp: 41294

Ion	Ratio	Lower	Upper
152	100		
151	21.5	15.5	28.7
153	21.2	8.8	16.4#
0	0.0	0.0	0.0

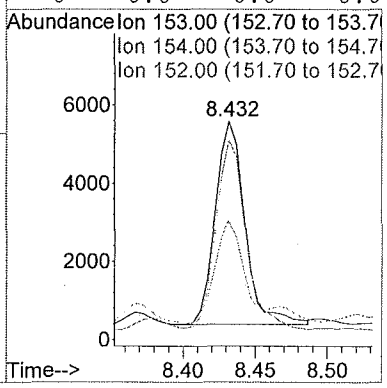


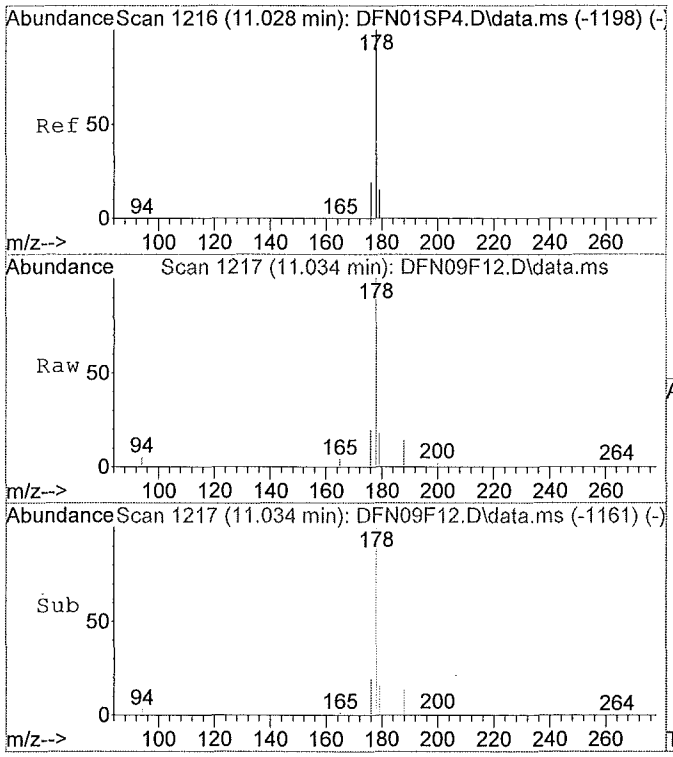


#7
Acenaphthene
Concen: 0.02 ug/ml
RT: 8.43 min Scan# 676
Delta R.T. 0.00 min
Lab File: DFN09F12.D
Acq: 07/16/2015 12:17

Tgt Ion:153 Resp: 7371

Ion	Ratio	Lower	Upper
153	100		
154	94.2	65.1	120.9
152	48.9	35.2	65.4
0	0.0	0.0	0.0

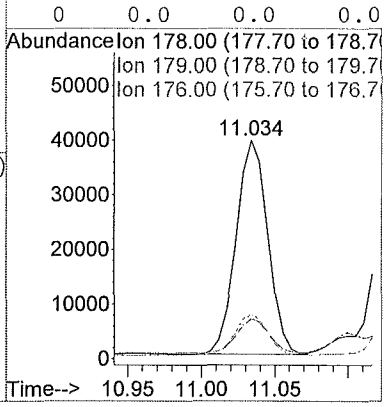


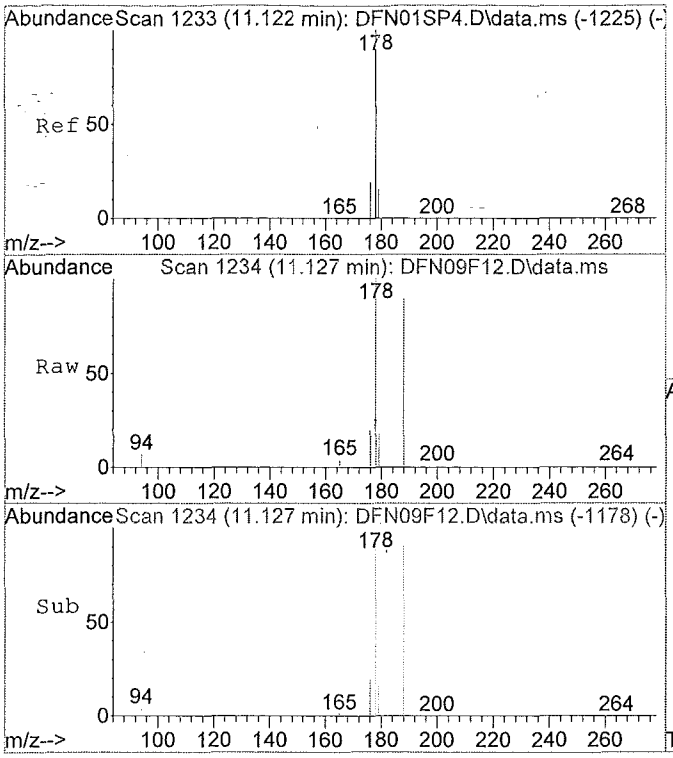


#11
Phenanthrene
Concen: 0.12 ug/ml
RT: 11.03 min Scan# 1217
Delta R.T. 0.01 min
Lab File: DFN09F12.D
Acq: 07/16/2015 12:17

Tgt Ion:178 Resp: 58518

Ion	Ratio	Lower	Upper
178	100		
179	16.2	11.1	20.5
176	20.5	14.1	26.1
0	0.0	0.0	0.0

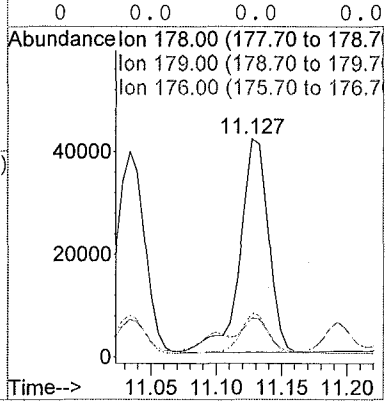


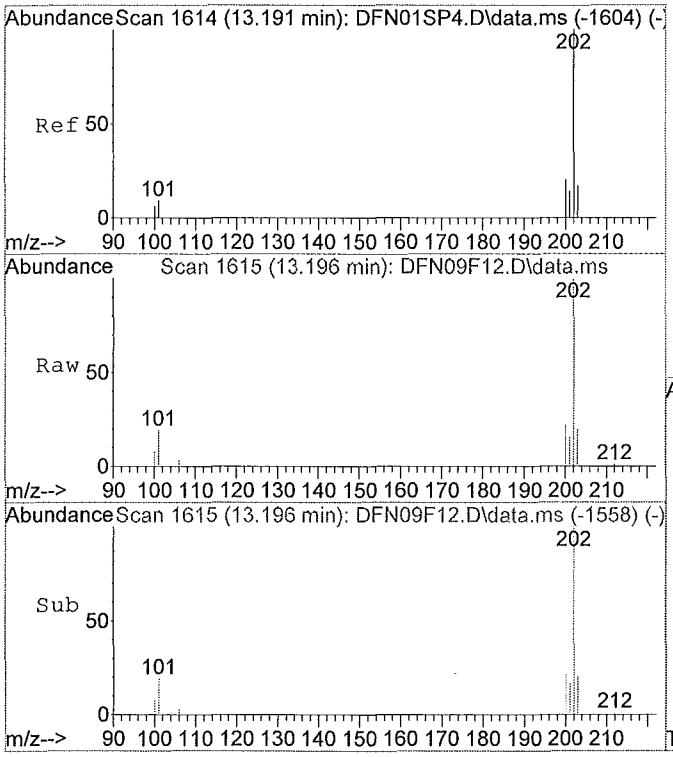


#12
Anthracene
Concen: 0.13 ug/ml
RT: 11.13 min Scan# 1234
Delta R.T. 0.01 min
Lab File: DFN09F12.D
Acq: 07/16/2015 12:17

Tgt Ion:178 Resp: 63156

Ion	Ratio	Lower	Upper
178	100		
179	14.6	11.6	21.6
176	18.5	13.9	25.7
0	0.0	0.0	0.0

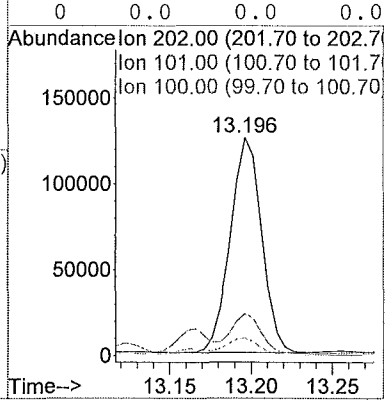


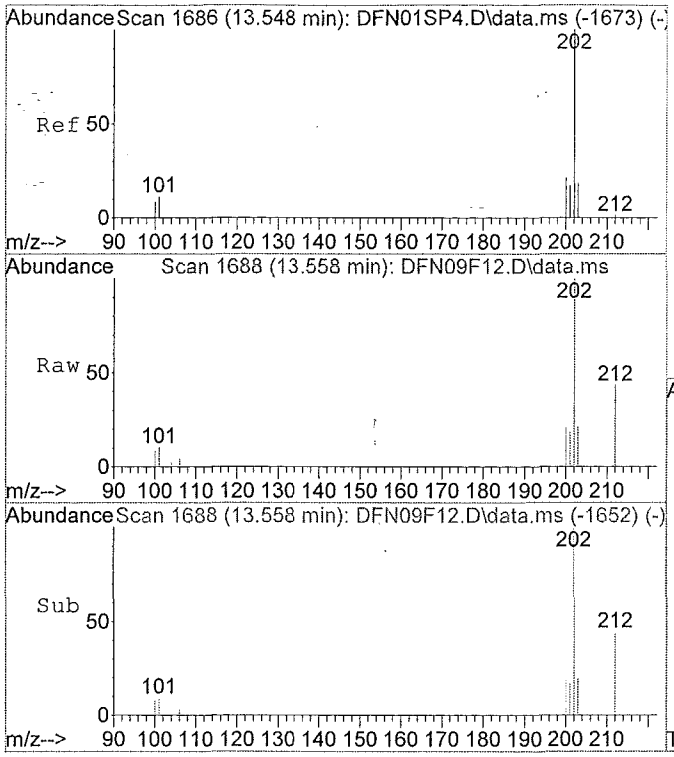


#14
Fluoranthene
Concen: 0.29 ug/ml
RT: 13.20 min Scan# 1615
Delta R.T. 0.00 min
Lab File: DFN09F12.D
Acq: 07/16/2015 12:17

Tgt Ion:202 Resp: 166301

Ion	Ratio	Lower	Upper
202	100		
101	17.0	9.4	17.6
100	7.6	0.0	0.0#
0	0.0	0.0	0.0

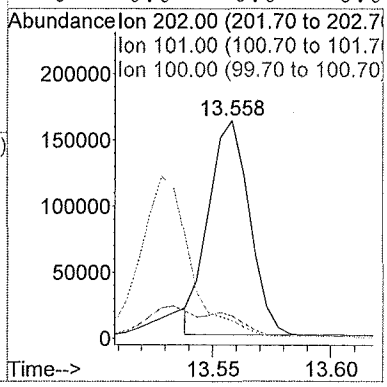


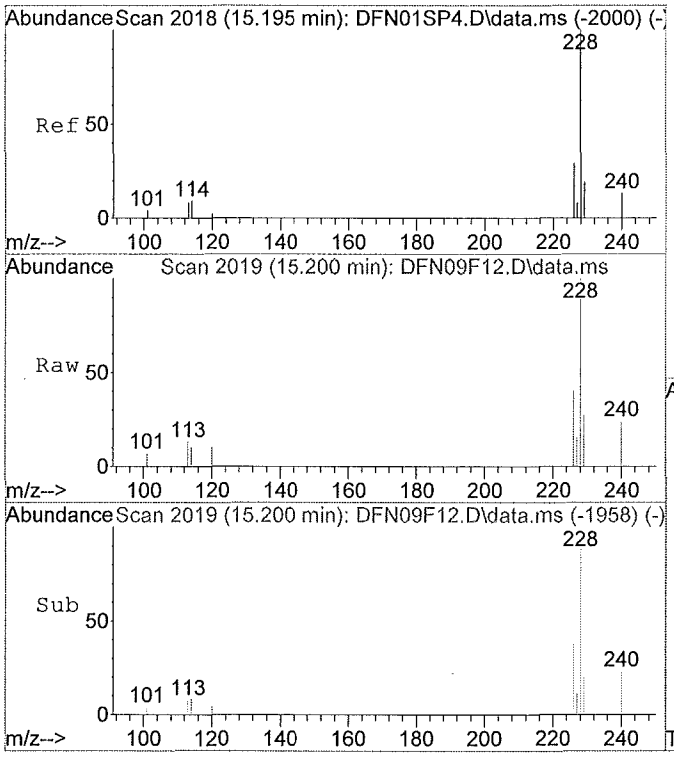


#16
Pyrene
Concen: 0.31 ug/ml m
RT: 13.56 min Scan# 1688
Delta R.T. 0.01 min
Lab File: DFN09F12.D
Acq: 07/16/2015 12:17

Tgt Ion:202 Resp: 195090

Ion	Ratio	Lower	Upper
202	100		
101	27.4	10.6	19.6#
100	92.5	9.4	17.4#
0	0.0	0.0	0.0

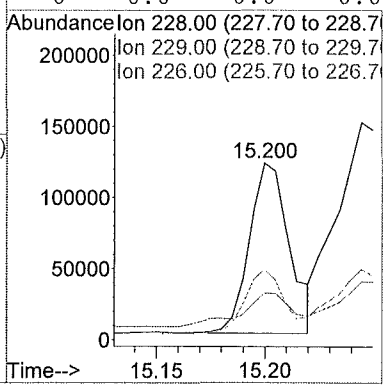


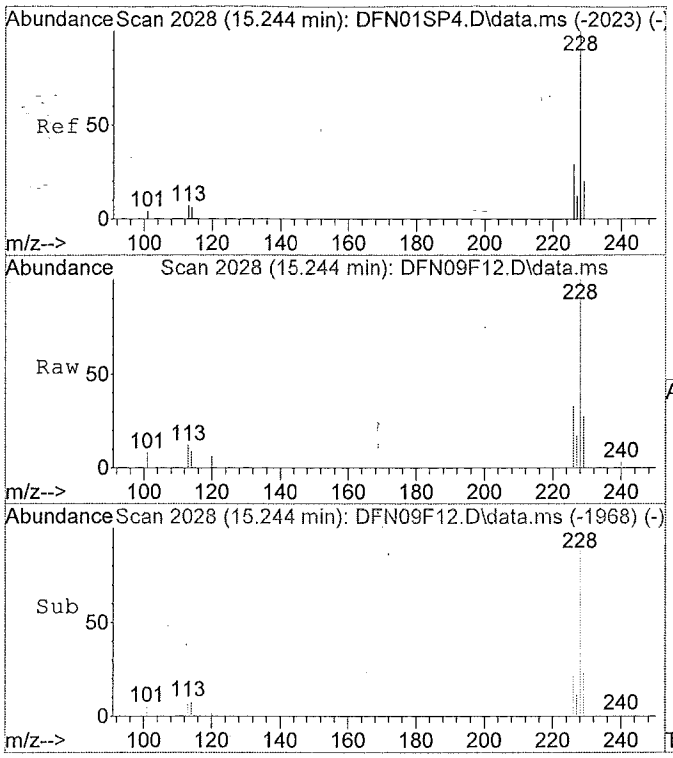


#17
Benzo(a)anthracene
Concen: 0.29 ug/ml
RT: 15.20 min Scan# 2019
Delta R.T. 0.00 min
Lab File: DFN09F12.D
Acq: 07/16/2015 12:17

Tgt Ion:228 Resp: 154817

Ion	Ratio	Lower	Upper
228	100		
229	24.2	14.5	26.9
226	35.9	18.5	34.3#
0	0.0	0.0	0.0

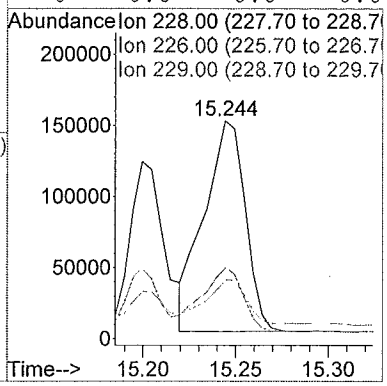


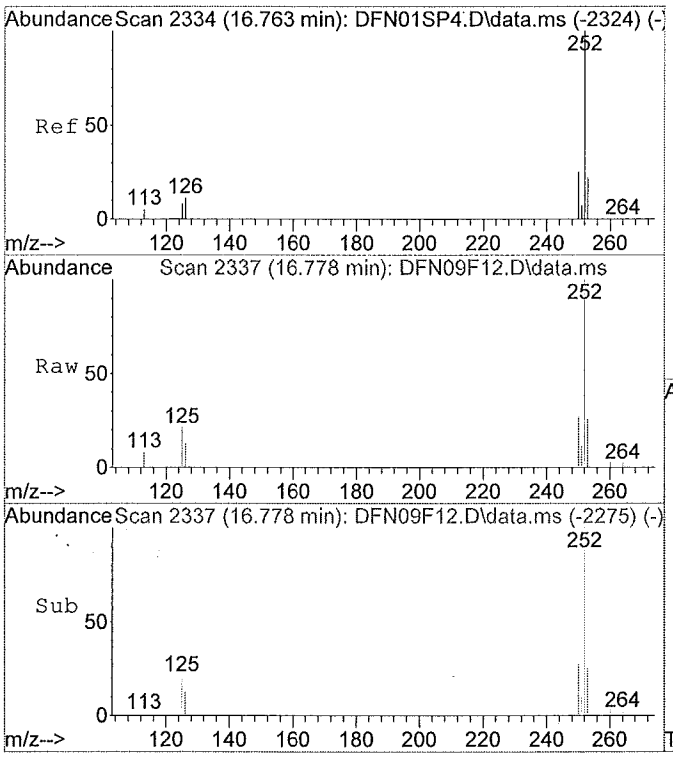


#18
Chrysene
Concen: 0.41 ug/ml
RT: 15.24 min Scan# 2028
Delta R.T. 0.00 min
Lab File: DFN09F12.D
Acq: 07/16/2015 12:17

Tgt Ion:228 Resp: 229435

Ion	Ratio	Lower	Upper
228	100		
226	30.9	19.7	36.7
229	20.8	14.5	26.9
0	0.0	0.0	0.0

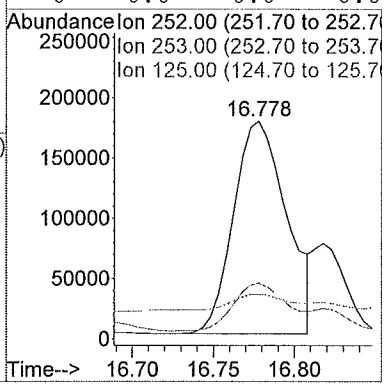


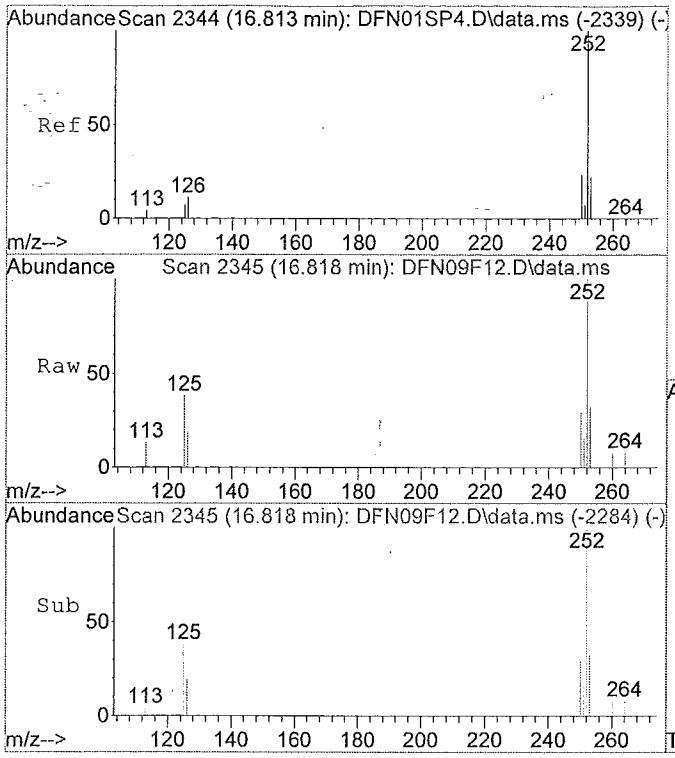


#20
Benzo(b)fluoranthene
Concen: 0.59 ug/ml
RT: 16.78 min Scan# 2337
Delta R.T. 0.01 min
Lab File: DFN09F12.D
Acq: 07/16/2015 12:17

Tgt Ion:252 Resp: 402710

Ion	Ratio	Lower	Upper
252	100		
253	22.7	15.3	28.3
125	5.3	0.0	0.0#
0	0.0	0.0	0.0

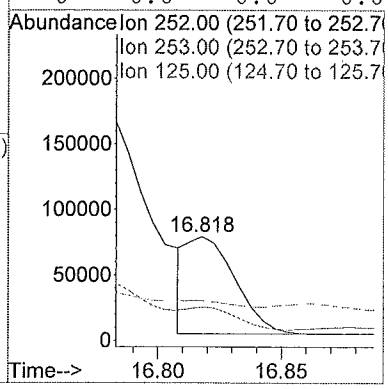


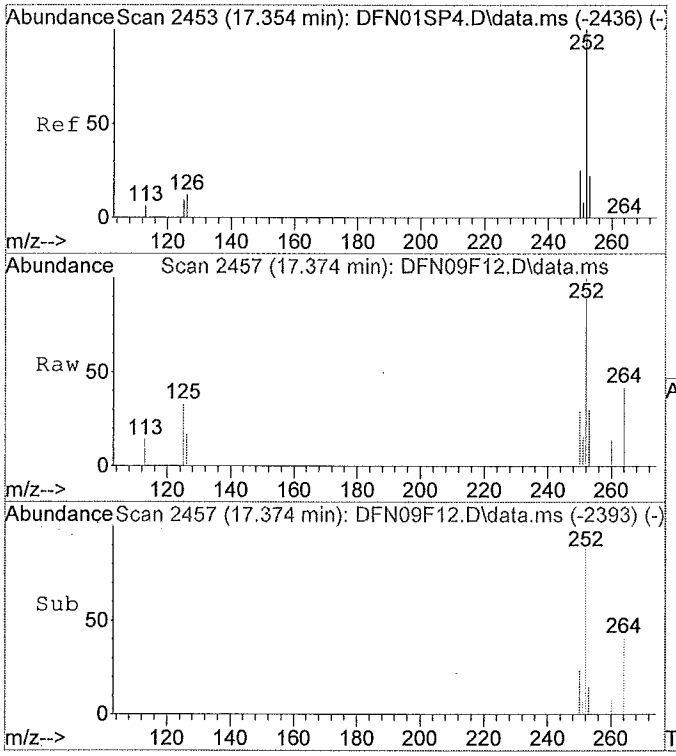


#21
Benzo(k)fluoranthene
Concen: 0.14 ug/ml m
RT: 16.82 min Scan# 2345
Delta R.T. 0.00 min
Lab File: DFN09F12.D
Acq: 07/16/2015 12:17

Tgt Ion:252 Resp: 101428

Ion	Ratio	Lower	Upper
252	100		
253	90.2	15.0	27.8#
125	21.2	0.0	0.0#
0	0.0	0.0	0.0

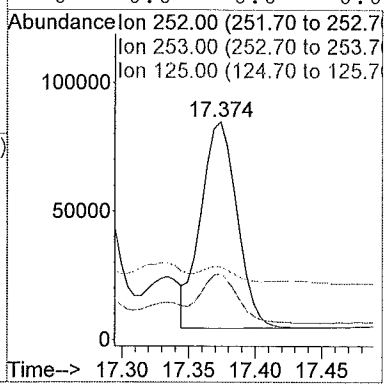


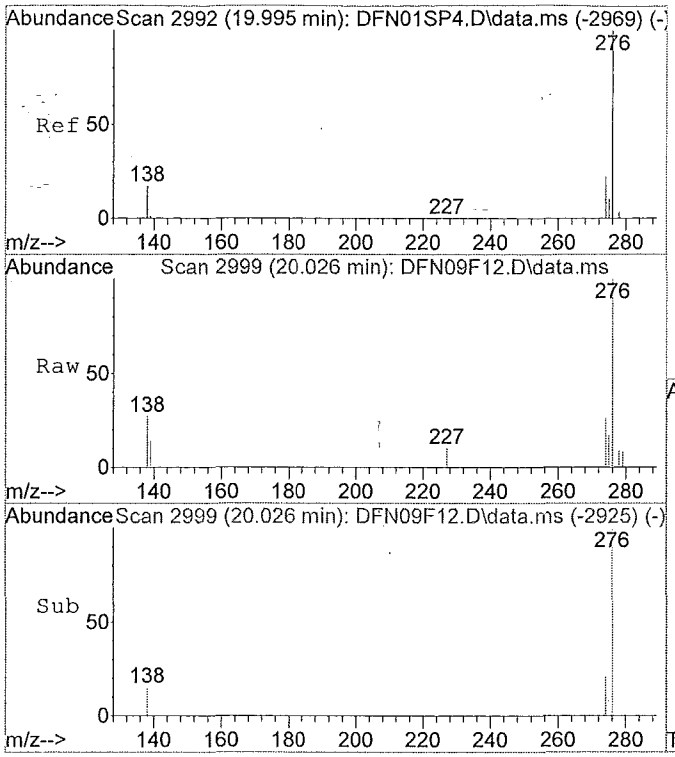


#22
Benzo(a)pyrene
Concen: 0.23 ug/ml
RT: 17.37 min Scan# 2457
Delta R.T. 0.02 min
Lab File: DFN09F12.D
Acq: 07/16/2015 12:17

Tgt Ion:252 Resp: 152098

Ion	Ratio	Lower	Upper
252	100		
253	24.0	15.0	27.8
125	6.2	0.0	0.0#
0	0.0	0.0	0.0

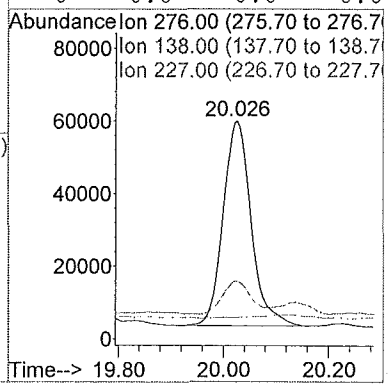


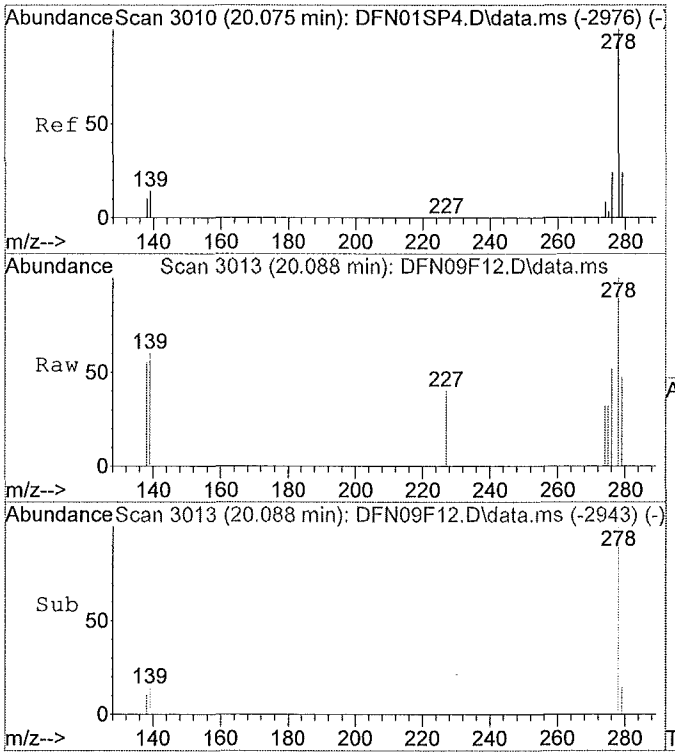


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.36 ug/ml
RT: 20.03 min Scan# 2999
Delta R.T. 0.03 min
Lab File: DFN09F12.D
Acq: 07/16/2015 12:17

Tgt Ion:276 Resp: 207401

Ion	Ratio	Lower	Upper
276	100		
138	15.6	0.0	0.0#
227	0.0	0.0	0.0#
0	0.0	0.0	0.0

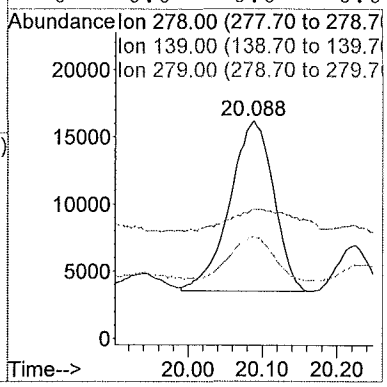


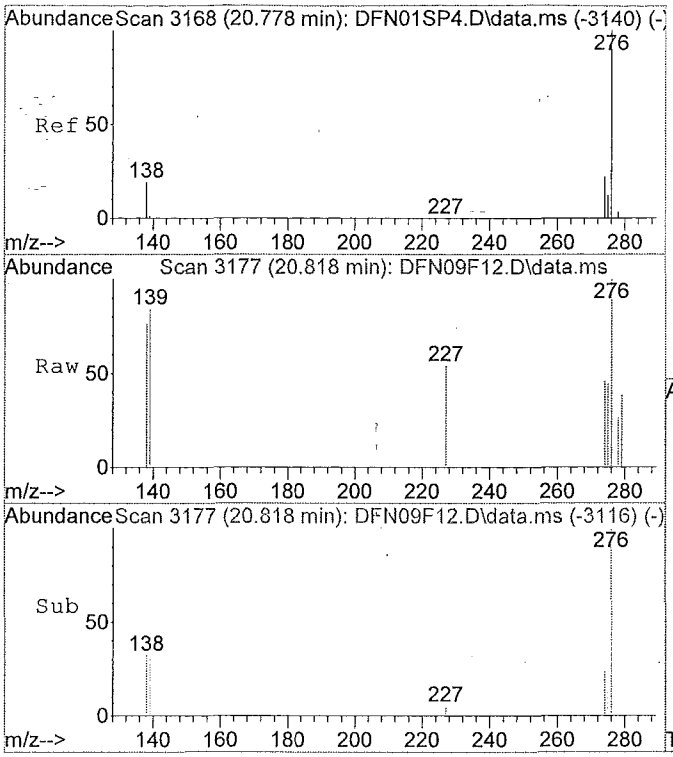


#24
Dibenzo(a,h)anthracene
Concen: 0.08 ug/ml
RT: 20.09 min Scan# 3013
Delta R.T. 0.01 min
Lab File: DFN09F12.D
Acq: 07/16/2015 12:17

Tgt Ion:278 Resp: 52206

Ion	Ratio	Lower	Upper
278	100		
139	18.1	0.0	0.0#
279	25.6	15.8	29.3
0	0.0	0.0	0.0

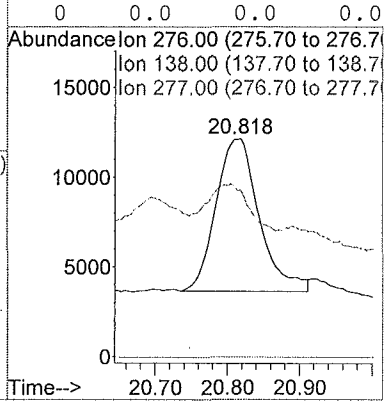




#25
Benzo(g,h,i)perylene
Concen: 0.05 ug/ml
RT: 20.82 min Scan# 3177
Delta R.T. 0.04 min
Lab File: DFN09F12.D
Acq: 07/16/2015 12:17

Tgt Ion:276 Resp: 35284

Ion	Ratio	Lower	Upper
276	100		
138	27.2	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.

F9L68

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293013

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFW15F13

Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/08/2015

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.7	U
91-57-6	2-Methylnaphthalene	3.7	U
208-96-8	Acenaphthylene	1.2	J
83-32-9	Acenaphthene	3.7	U
86-73-7	Fluorene	3.7	U
87-86-5	Pentachlorophenol	7.5	U
85-01-8	Phenanthrene	1.2	J
120-12-7	Anthracene	1.3	J
206-44-0	Fluoranthene	3.1	J
129-00-0	Pyrene	4.9	
56-55-3	Benzo(a)anthracene	3.8	
218-01-9	Chrysene	5.6	
205-99-2	Benzo(b)fluoranthene	7.6	
207-08-9	Benzo(k)fluoranthene	2.3	J
50-32-8	Benzo(a)pyrene	2.9	J
193-39-5	Indeno(1,2,3-cd)pyrene	4.7	
53-70-3	Dibenzo(a,h)anthracene	1.0	J
191-24-2	Benzo(g,h,i)perylene	3.7	U

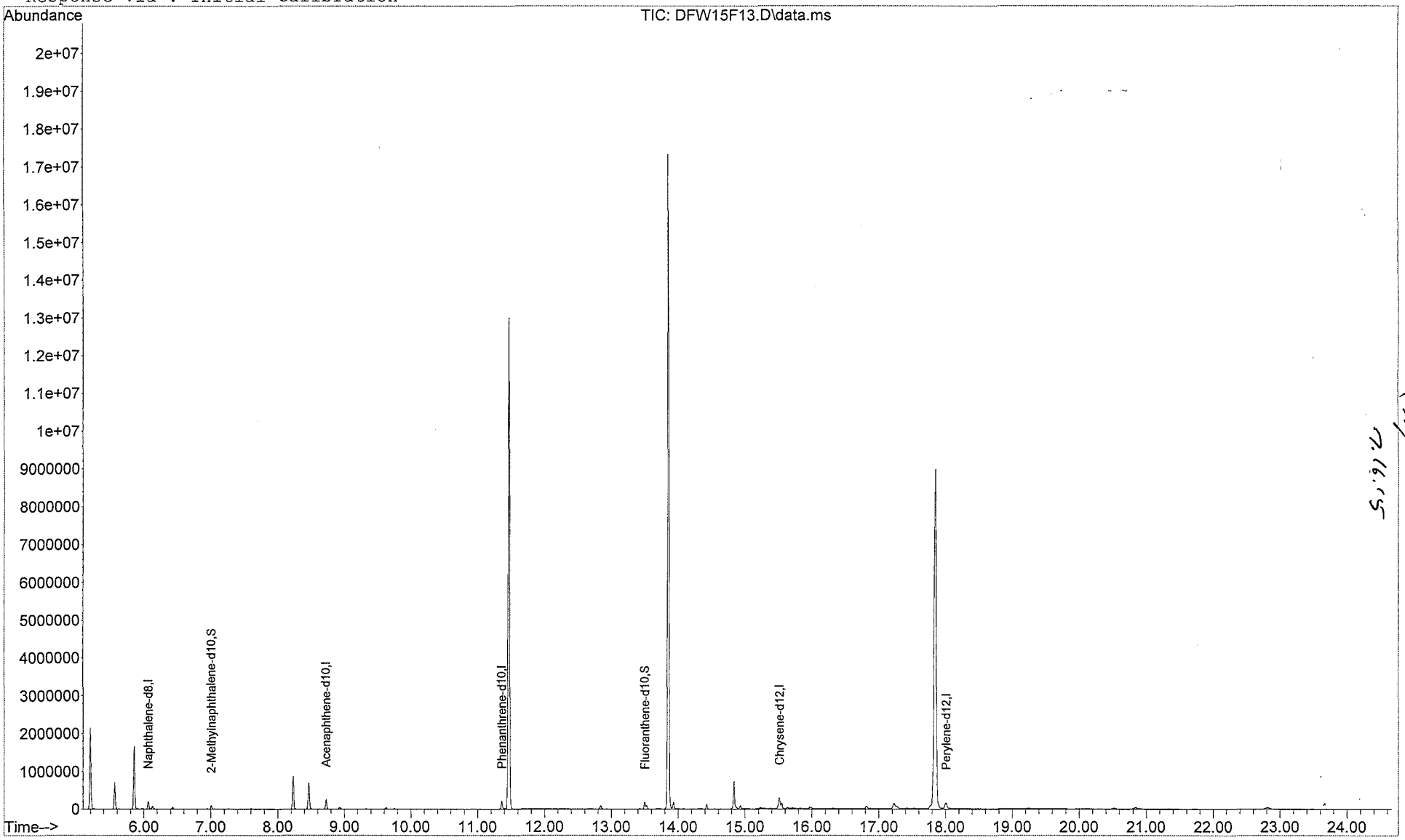
Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW15F13.D
Acq On : 06/08/2015 21:23
Sample : 1514293013 F9L68
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 14
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 15:01:51 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW15F13.D Vial: 14
Acq On : 06/08/2015 21:23 Operator: DJC
Sample : 1514293013 F9L68 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 15:01:51 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

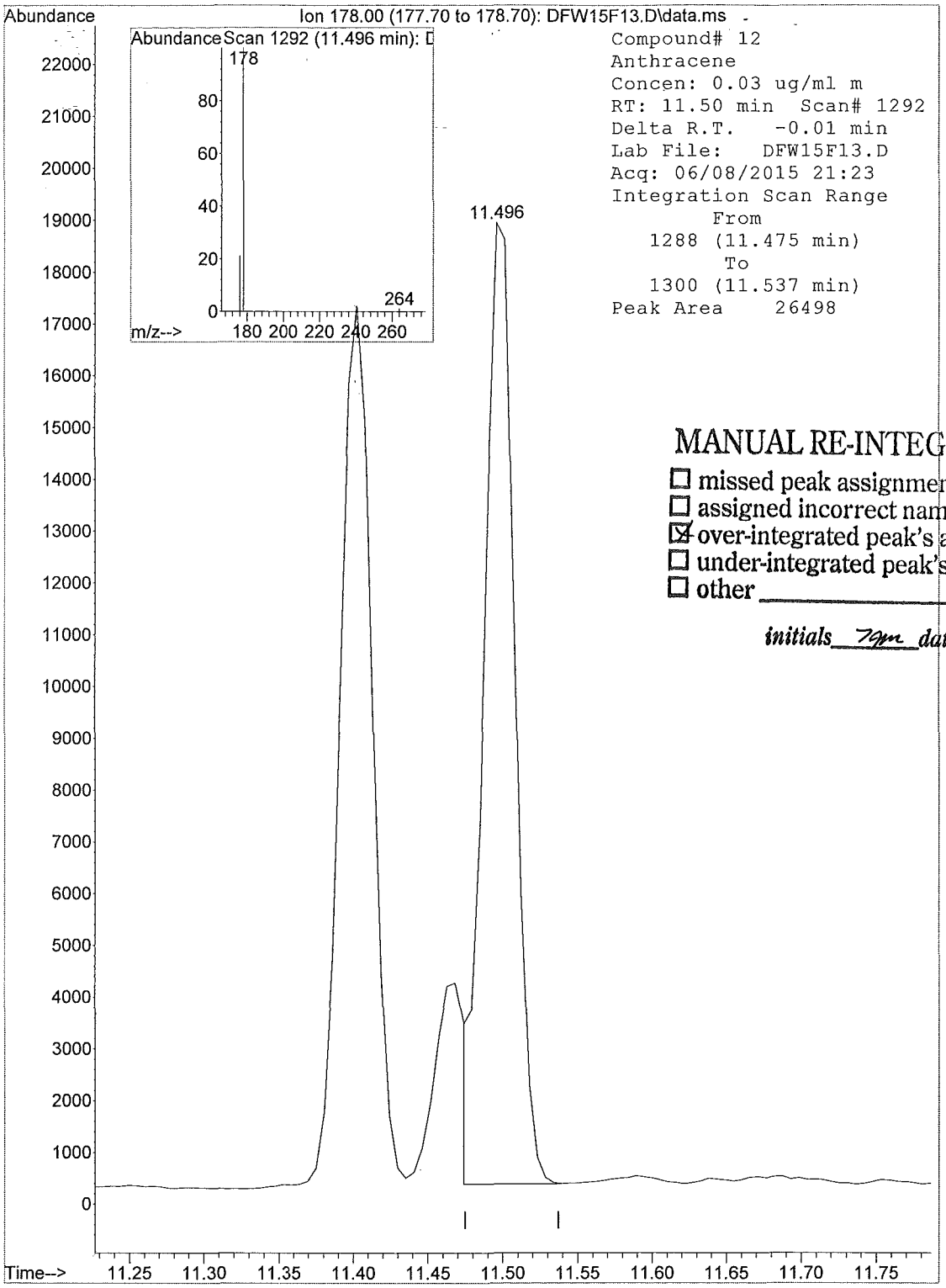
Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.06	136	228688	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	159480	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	272272	0.40 ug/ml
15) Chrysene-d12	15.51	240	281631	0.40 ug/ml
19) Perylene-d12	18.01	264	297904	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	95660	0.259ug/mL
13) Fluoranthene-d10	13.50	212	210134	0.282ug/mL

Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	8.49	152	22514	0.032ug/ml	83
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.40	178	26066	0.033ug/ml	95
12) Anthracene	11.50	178	26498	0.035ug/ml m	92 7.16.15
14) Fluoranthene	13.52	202	74910	0.084ug/ml	93
16) Pyrene	13.87	202	115657	0.131ug/ml	1
17) Benzo(a)anthracene	15.50	228	77436	0.103ug/ml	89
18) Chrysene	15.55	228	120087	0.151ug/ml	96
20) Benzo(b)fluoranthene	17.23	252	189809	0.204ug/ml	100
21) Benzo(k)fluoranthene	17.27	252	58118	0.060ug/ml m	99 7.16.15
22) Benzo(a)pyrene	17.89	252	69813	0.079ug/ml	98
23) Indeno(1,2,3-c,d)pyrene	20.84	276	98283	0.127ug/ml	100
24) Dibenzo(a,h)anthracene	20.91	278	23660	0.028ug/ml	97
25) Benzo(g,h,i)perylene	0.00	276		Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 00791

M A N U A L I N T E G R A T I O N FOR Anthracene



Compound# 12
Anthracene
Concen: 0.03 ug/ml m
RT: 11.50 min Scan# 1292
Delta R.T. -0.01 min
Lab File: DFW15F13.D
Acq: 06/08/2015 21:23
Integration Scan Range
From
1288 (11.475 min)
To
1300 (11.537 min)
Peak Area 26498

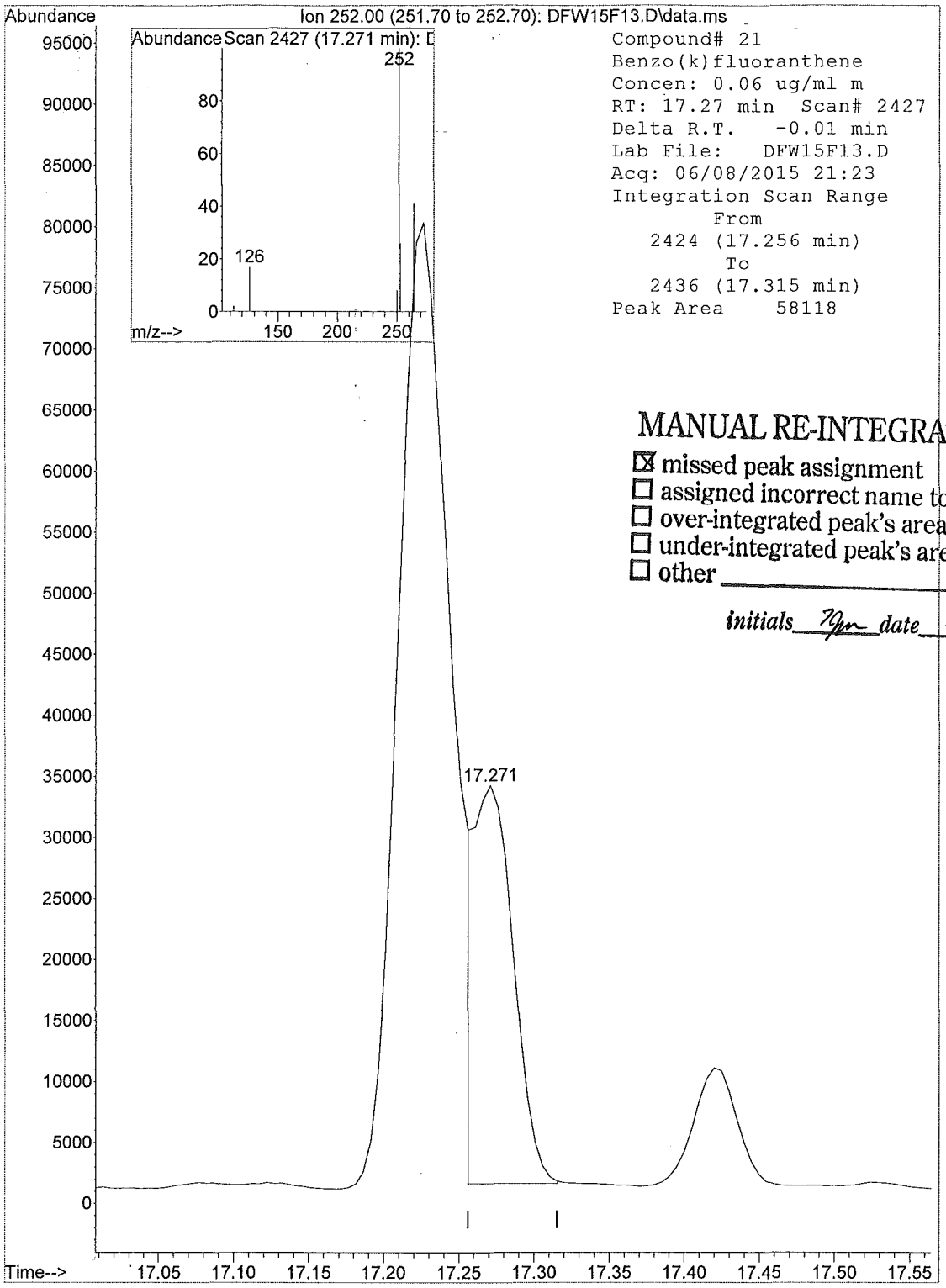
MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials Tgm *date* 7.16.15

DSOM_SIMJ2.M 5975-D DSOM_SIMJ2.M 1514293013 F9L68 . SOIL SIM

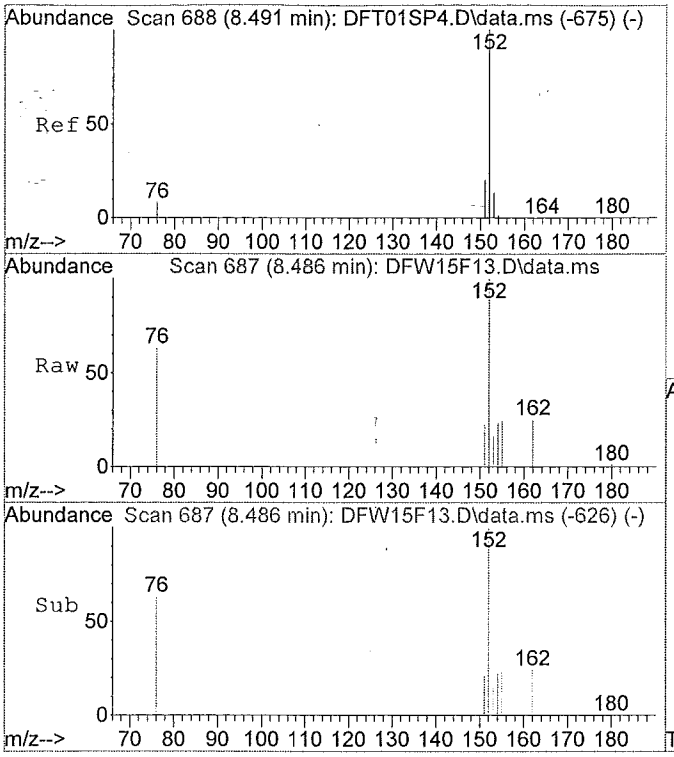
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

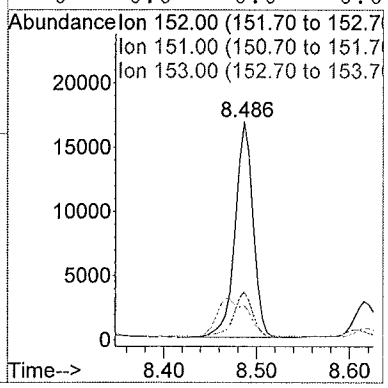
initials Jm *date* 7.16.15

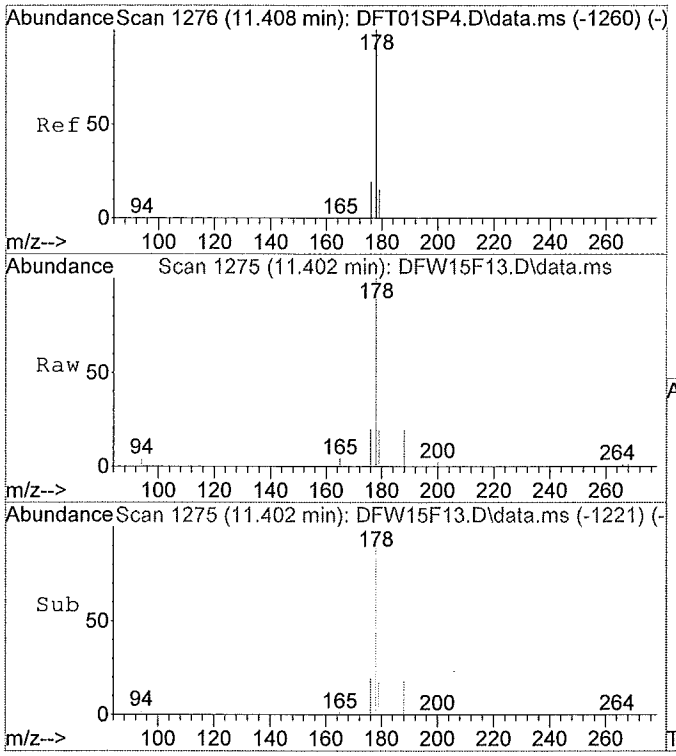


#6
Acenaphthylene
Concen: 0.03 ug/ml
RT: 8.49 min Scan# 687
Delta R.T. 0.00 min
Lab File: DFW15F13.D
Acq: 06/08/2015 21:23

Tgt Ion:152 Resp: 22514

Ion	Ratio	Lower	Upper
152	100		
151	21.9	15.5	28.7
153	30.6	8.8	16.4#
0	0.0	0.0	0.0

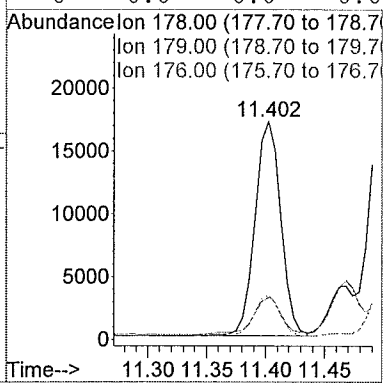


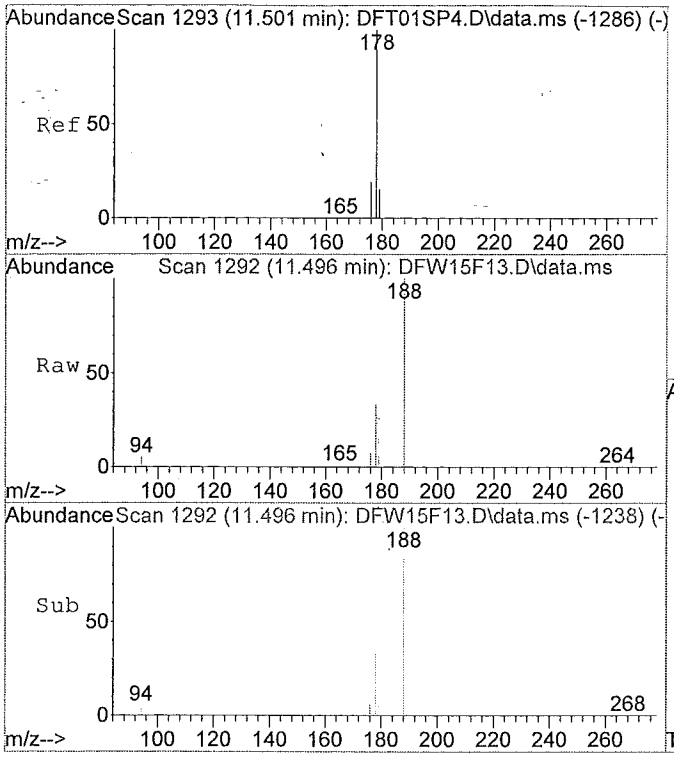


#11
Phenanthrene
Concen: 0.03 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFW15F13.D
Acq: 06/08/2015 21:23

Tgt Ion:178 Resp: 26066

Ion	Ratio	Lower	Upper
178	100		
179	18.8	11.1	20.5
176	18.7	14.1	26.1
0	0.0	0.0	0.0

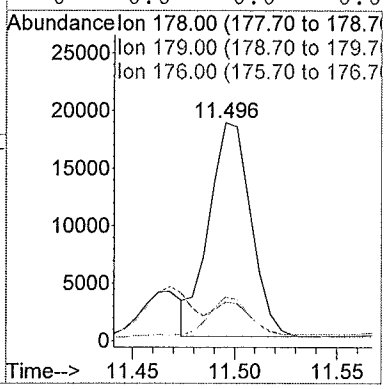


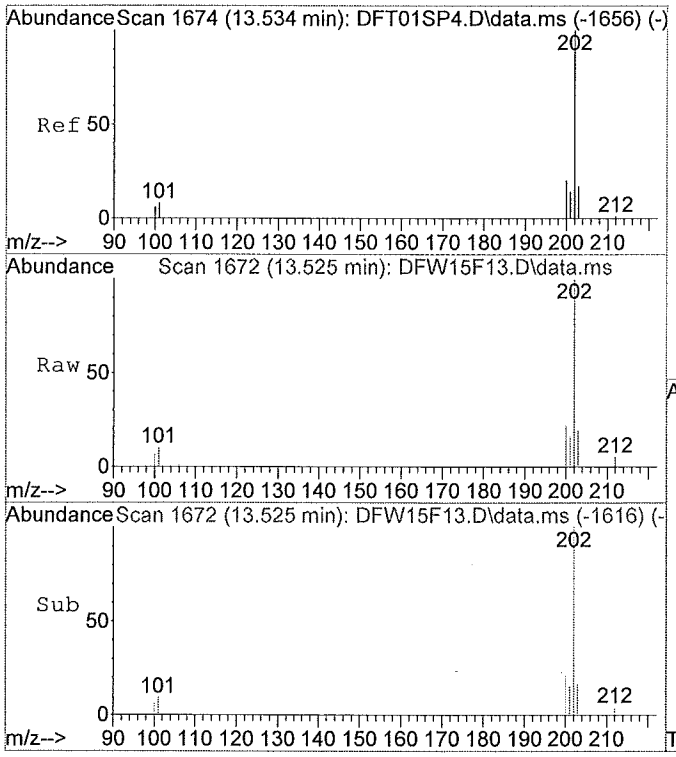


#12
Anthracene
Concen: 0.03 ug/ml m
RT: 11.50 min Scan# 1292
Delta R.T. -0.01 min
Lab File: DFW15F13.D
Acq: 06/08/2015 21:23

Tgt Ion:178 Resp: 26498

Ion	Ratio	Lower	Upper
178	100		
179	14.2	11.6	21.6
176	21.2	13.9	25.7
0	0.0	0.0	0.0

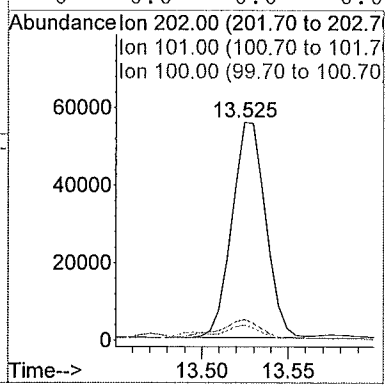


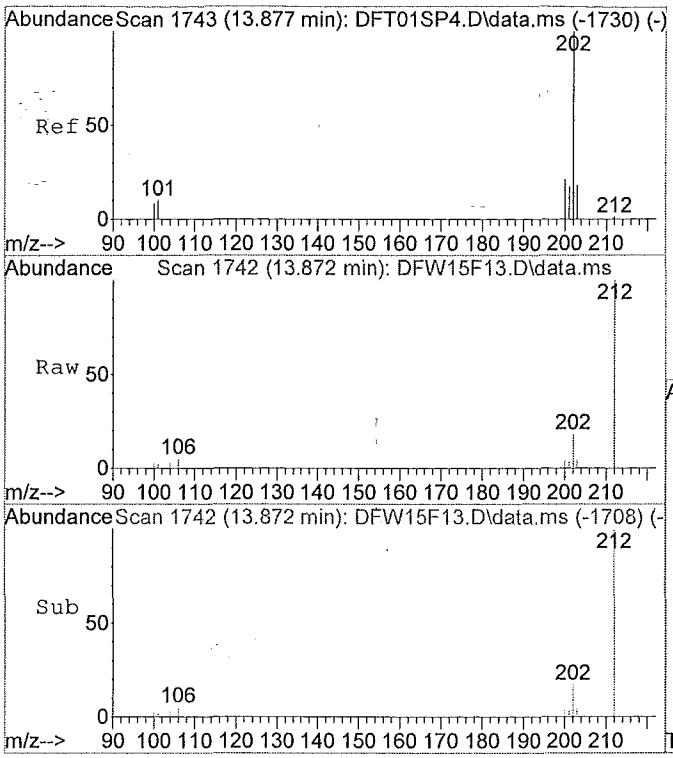


#14
Fluoranthene
Concen: 0.08 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DFW15F13.D
Acq: 06/08/2015 21:23

Tgt Ion:202 Resp: 74910

Ion	Ratio	Lower	Upper
202	100		
101	10.6	9.4	17.6
100	6.4	0.0	0.0#
0	0.0	0.0	0.0

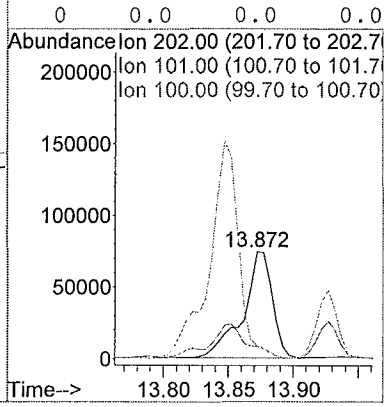


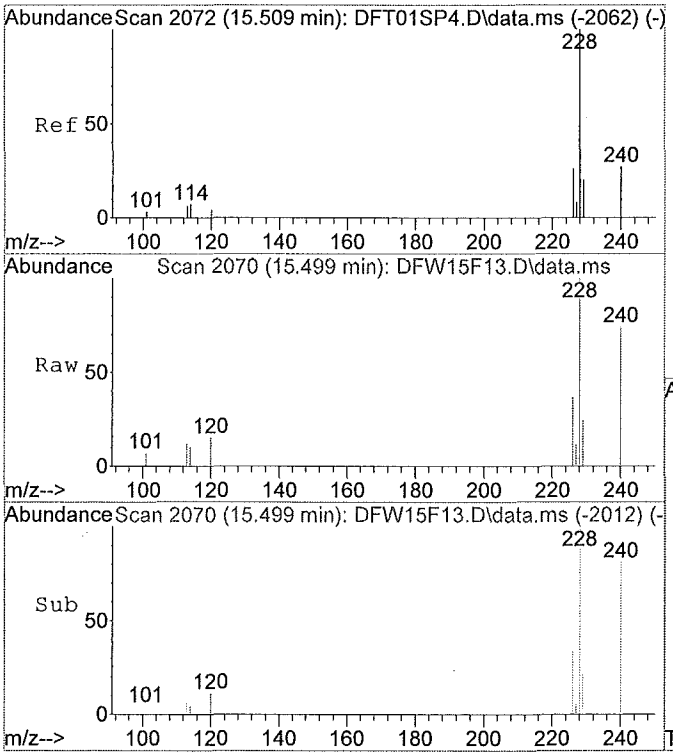


#16
Pyrene
Concen: 0.13 ug/ml
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DFW15F13.D
Acq: 06/08/2015 21:23

Tgt Ion:202 Resp: 115657

Ion	Ratio	Lower	Upper
202	100		
101	42.7	10.6	19.6#
100	206.7	9.4	17.4#
0	0.0	0.0	0.0

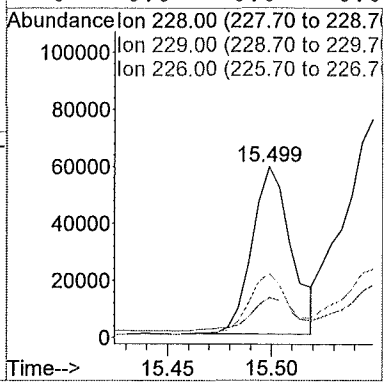


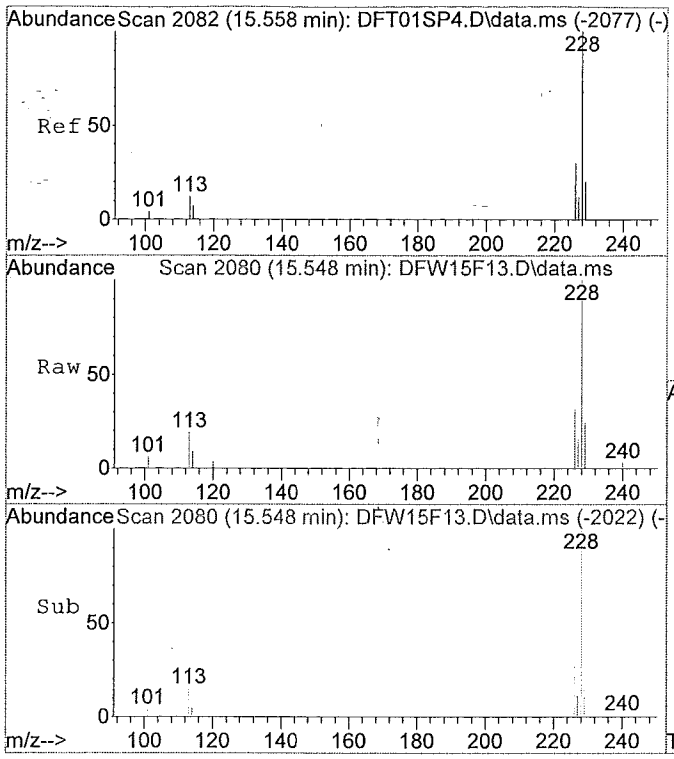


#17
Benzo(a)anthracene
Concen: 0.10 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFW15F13.D
Acq: 06/08/2015 21:23

Tgt Ion:228 Resp: 77436

Ion	Ratio	Lower	Upper
228	100		
229	21.9	14.5	26.9
226	35.4	18.5	34.3#
0	0.0	0.0	0.0

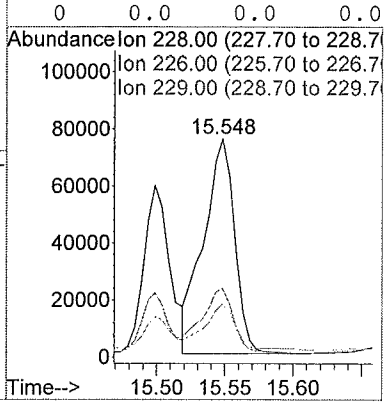


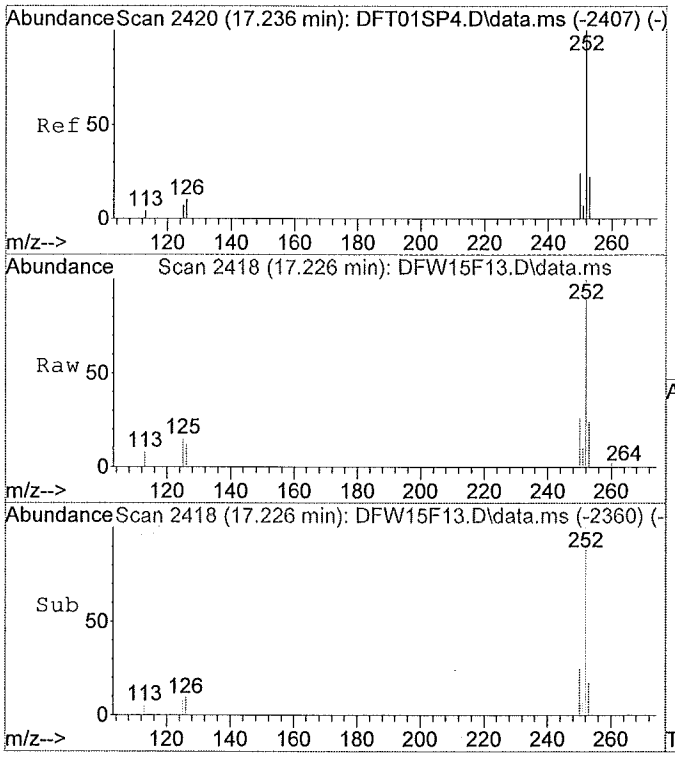


#18
Chrysene
Concen: 0.15 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFW15F13.D
Acq: 06/08/2015 21:23

Tgt Ion:228 Resp: 120087

Ion	Ratio	Lower	Upper
228	100		
226	30.4	19.7	36.7
229	19.5	14.5	26.9
0	0.0	0.0	0.0

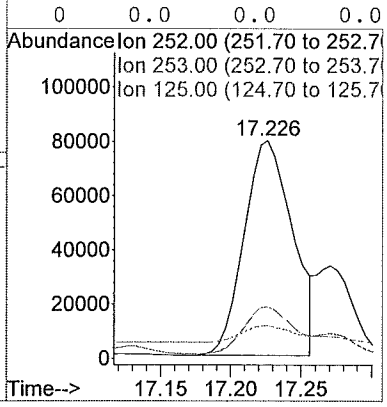


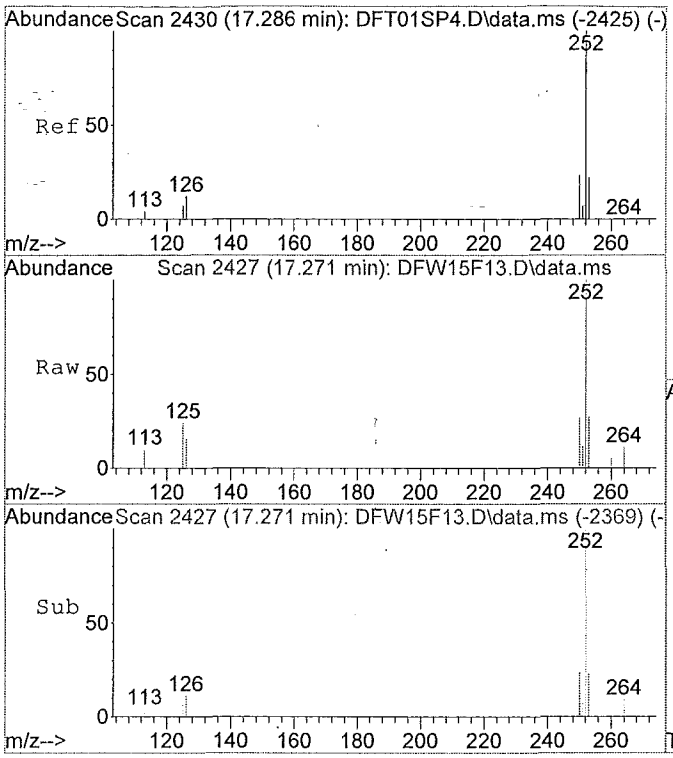


#20
Benzo(b)fluoranthene
Concen: 0.20 ug/ml
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DFW15F13.D
Acq: 06/08/2015 21:23

Tgt Ion:252 Resp: 189809

Ion	Ratio	Lower	Upper
252	100		
253	22.0	15.3	28.3
125	12.5	0.0	0.0#
0	0.0	0.0	0.0

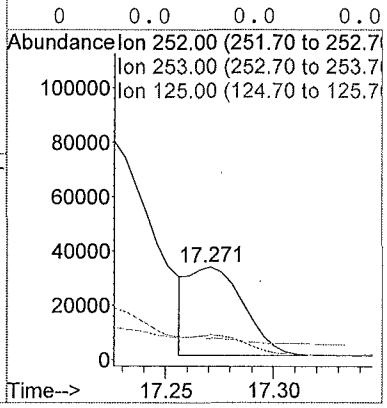


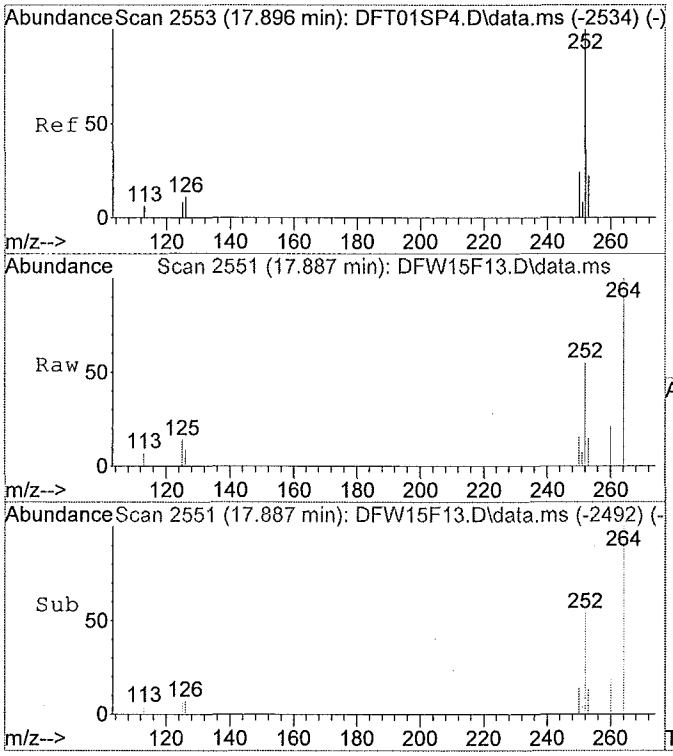


#21
Benzo(k)fluoranthene
Concen: 0.06 ug/ml m
RT: 17.27 min Scan# 2427
Delta R.T. -0.01 min
Lab File: DFW15F13.D
Acq: 06/08/2015 21:23

Tgt Ion:252 Resp: 58118

Ion	Ratio	Lower	Upper
252	100		
253	71.8	15.0	27.8#
125	40.9	0.0	0.0#
0	0.0	0.0	0.0

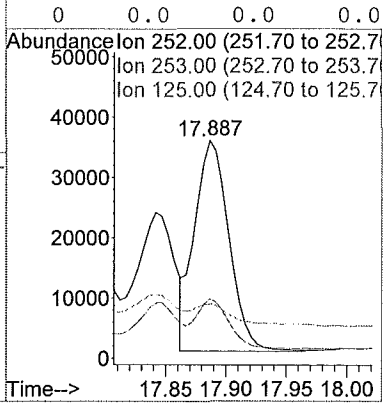


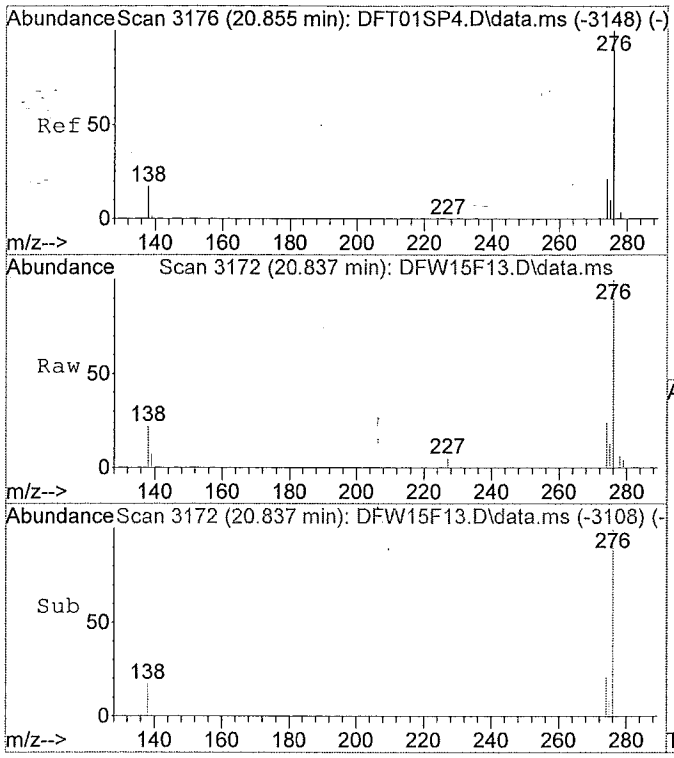


#22
Benzo(a)pyrene
Concen: 0.08 ug/ml
RT: 17.89 min Scan# 2551
Delta R.T. -0.00 min
Lab File: DFW15F13.D
Acq: 06/08/2015 21:23

Tgt Ion:252 Resp: 69813

Ion	Ratio	Lower	Upper
252	100		
253	22.2	15.0	27.8
125	9.7	0.0	0.0#
0	0.0	0.0	0.0

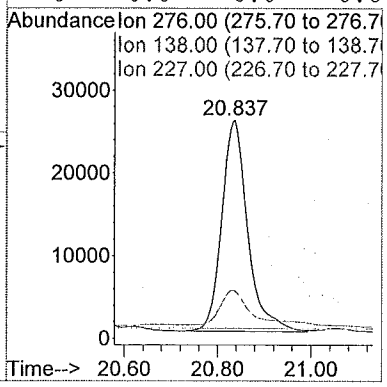


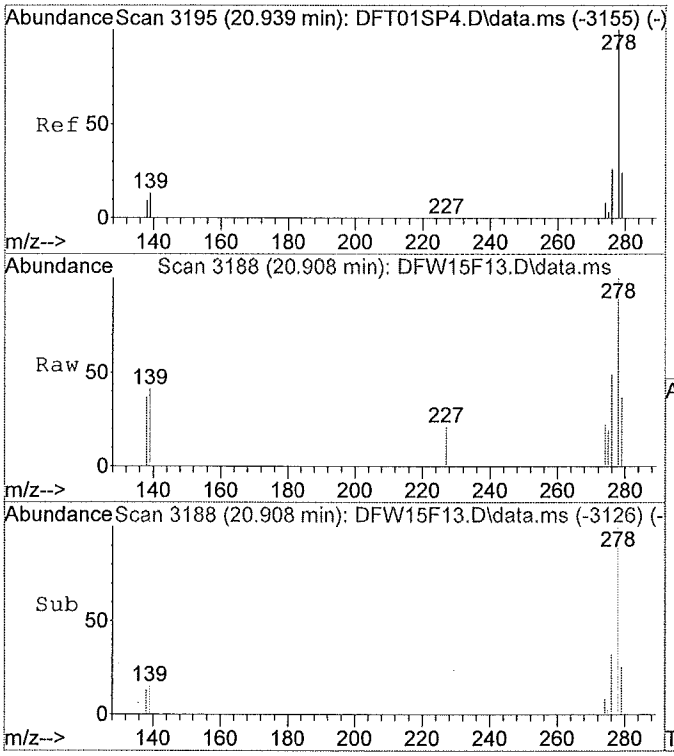


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.13 ug/ml
RT: 20.84 min Scan# 3172
Delta R.T. -0.01 min
Lab File: DFW15F13.D
Acq: 06/08/2015 21:23

Tgt Ion:276 Resp: 98283

Ion	Ratio	Lower	Upper
276	100		
138	17.2	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

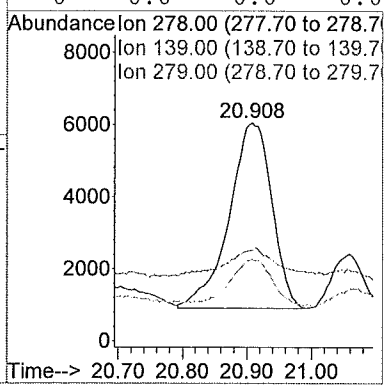




#24
Dibenzo(a,h)anthracene
Concen: 0.03 ug/ml
RT: 20.91 min Scan# 3188
Delta R.T. -0.02 min
Lab File: DFW15F13.D
Acq: 06/08/2015 21:23

Tgt Ion:278 Resp: 23660

Ion	Ratio	Lower	Upper
278	100		
139	17.4	0.0	0.0#
279	24.2	15.8	29.3
0	0.0	0.0	0.0



1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L69

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293014

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DFW16F14

Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/08/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.7	U
91-57-6	2-Methylnaphthalene	3.7	U
208-96-8	Acenaphthylene	3.7	U
83-32-9	Acenaphthene	3.7	U
86-73-7	Fluorene	3.7	U
87-86-5	Pentachlorophenol	7.6	U
85-01-8	Phenanthrene	3.7	U
120-12-7	Anthracene	3.7	U
206-44-0	Fluoranthene	1.2	J
129-00-0	Pyrene	1.2	J
56-55-3	Benzo(a)anthracene	1.1	J
218-01-9	Chrysene	1.2	J
205-99-2	Benzo(b)fluoranthene	1.6	J
207-08-9	Benzo(k)fluoranthene	3.7	U
50-32-8	Benzo(a)pyrene	0.91	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.94	J
53-70-3	Dibenzo(a,h)anthracene	3.7	U
191-24-2	Benzo(g,h,i)perylene	3.7	U

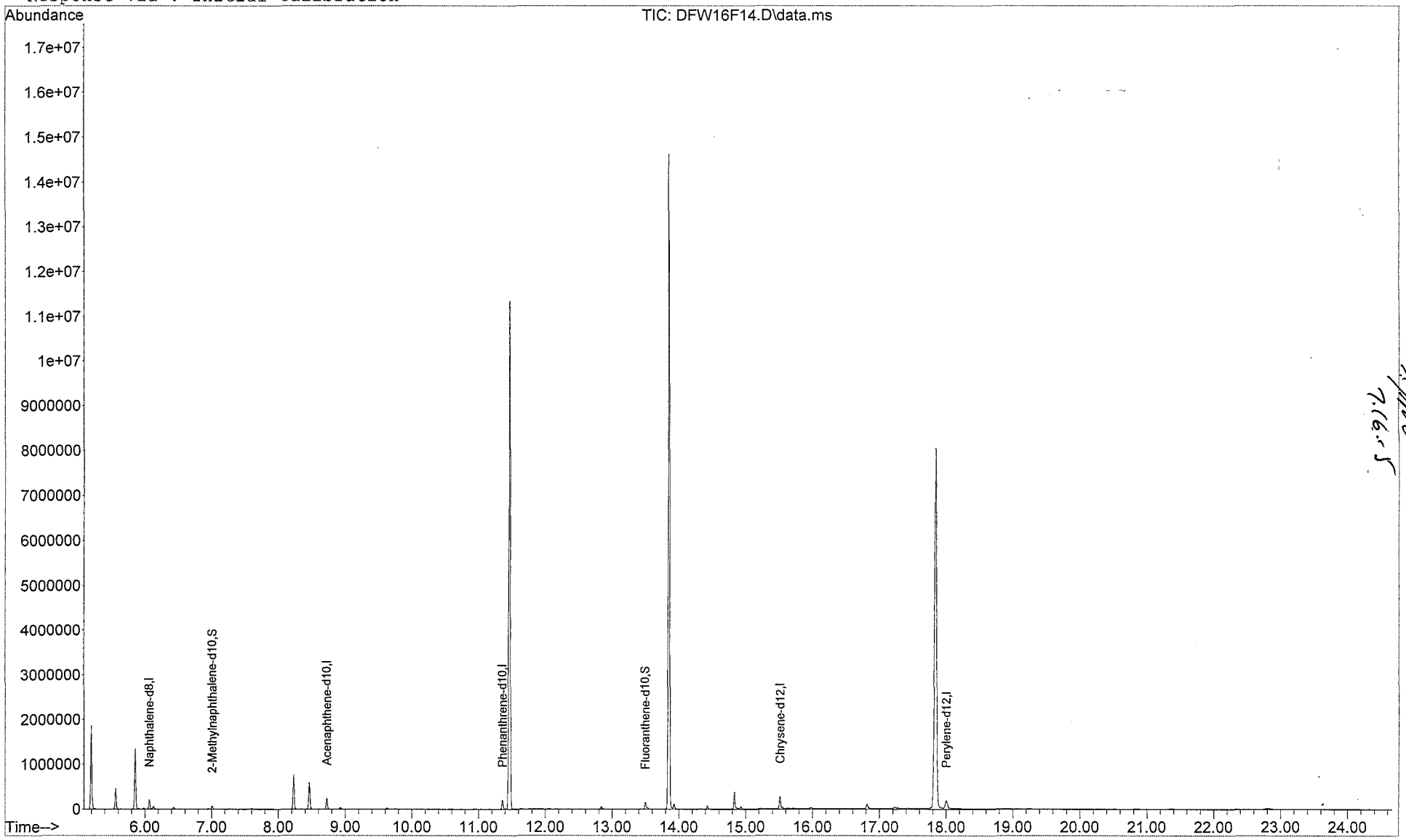
Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW16F14.D
Acq On : 06/08/2015 21:53
Sample : 1514293014 F9L69
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 15
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 15:02:42 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



7.16.15

Quantitation Report

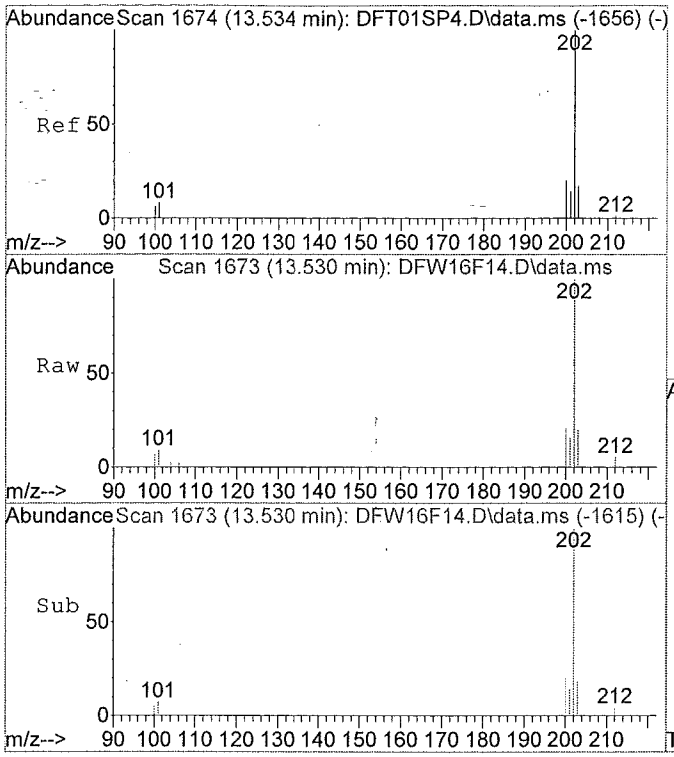
Data File : R:\D\2015\JUN15\08JUN15\DFW16F14.D Vial: 15
Acq On : 06/08/2015 21:53 Operator: DJC
Sample : 1514293014 F9L69 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 15:02:42 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.06	136	231993	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	159934	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	272412	0.40 ug/ml
15) Chrysene-d12	15.51	240	298204	0.40 ug/ml
19) Perylene-d12	18.00	264	314129	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.00	152	80448	0.215ug/mL
13) Fluoranthene-d10	13.49	212	178533	0.240ug/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	13.53	202	28349	0.032ug/ml	87
16) Pyrene	13.87	202	30323	0.032ug/ml	65
17) Benzo(a)anthracene	15.50	228	22760	0.029ug/ml	89
18) Chrysene	15.55	228	27750	0.033ug/ml	96
20) Benzo(b)fluoranthene	17.23	252	41423	0.042ug/ml	98
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	17.89	252	22555	0.024ug/ml	55
23) Indeno(1,2,3-c,d)pyrene	20.83	276	20380	0.025ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	0.00	276		Not Detected	

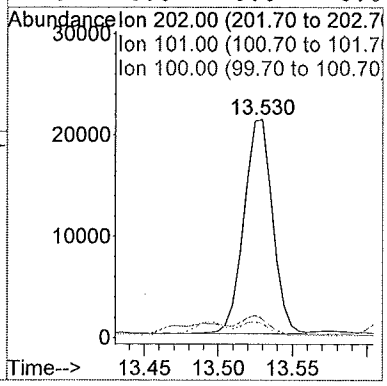
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

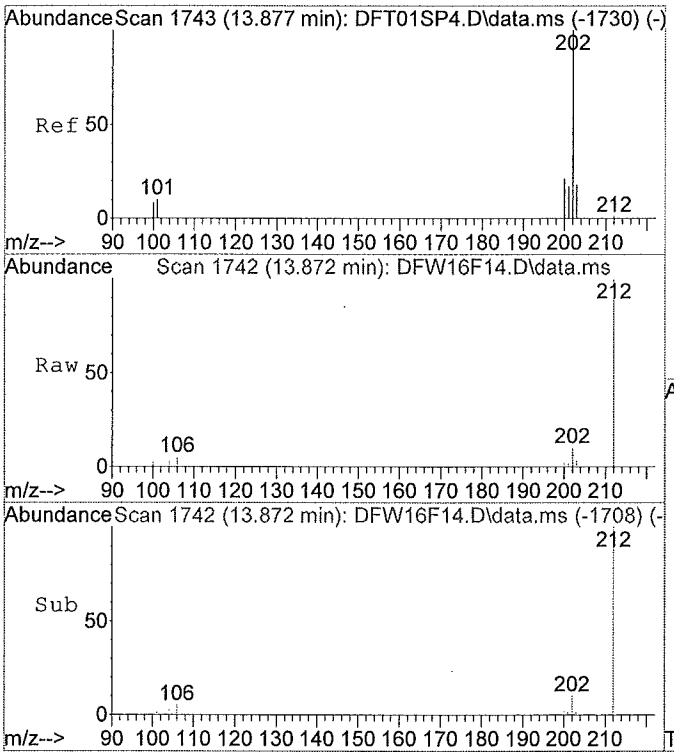


#14
Fluoranthene
Concen: 0.03 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFW16F14.D
Acq: 06/08/2015 21:53

Tgt Ion:202 Resp: 28349

Ion	Ratio	Lower	Upper
202	100		
101	8.3	9.4	17.6#
100	6.0	0.0	0.0#
0	0.0	0.0	0.0

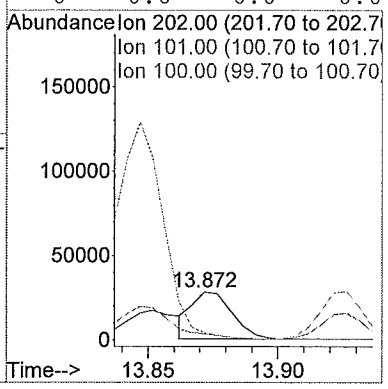


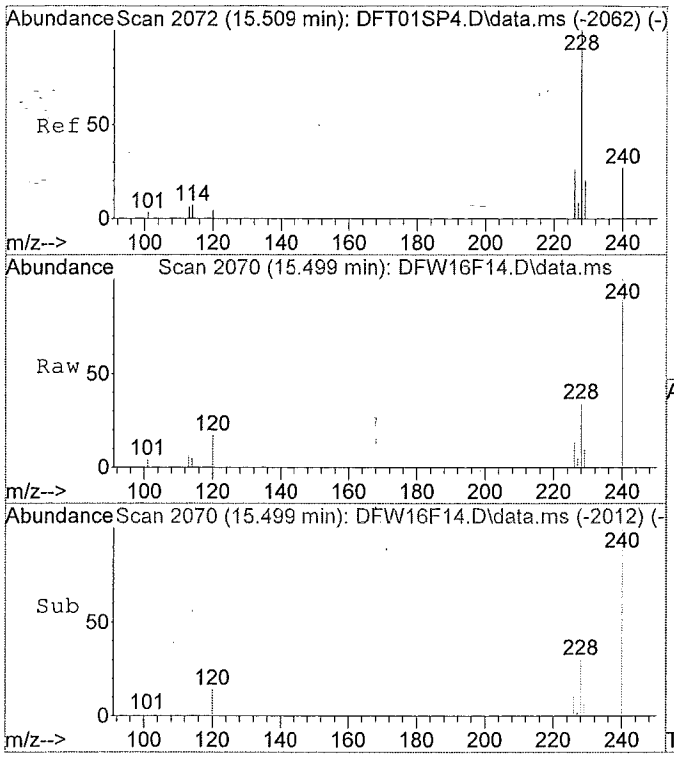


#16
Pyrene
Concen: 0.03 ug/ml
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DFW16F14.D
Acq: 06/08/2015 21:53

Tgt Ion:202 Resp: 30323

Ion	Ratio	Lower	Upper
202	100		
101	0.0	10.6	19.6#
100	0.0	9.4	17.4#
0	0.0	0.0	0.0

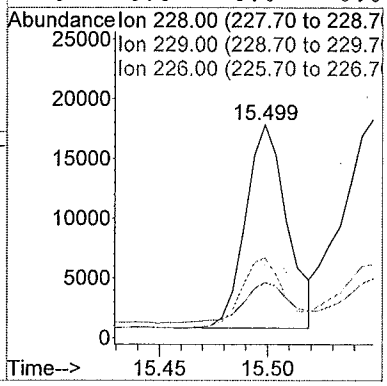


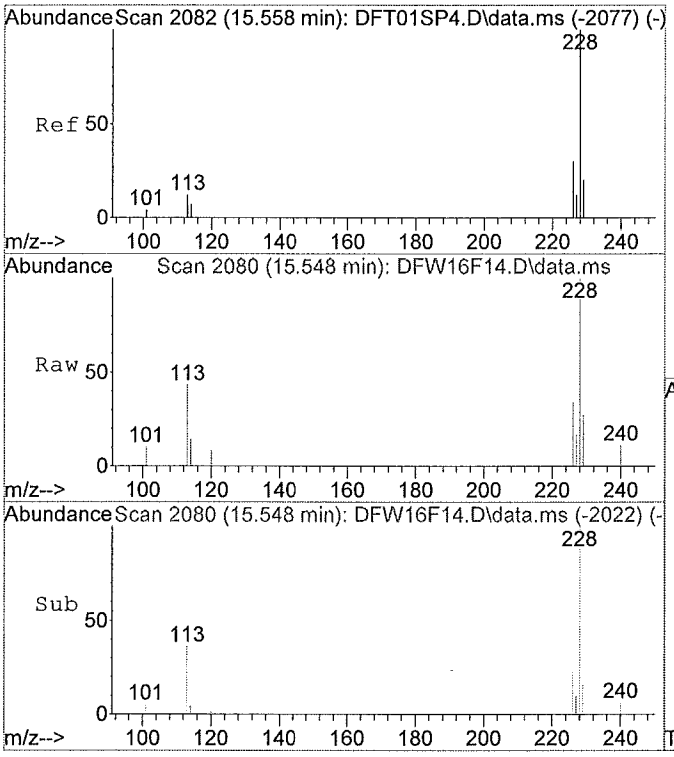


#17
Benzo(a)anthracene
Concen: 0.03 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFW16F14.D
Acq: 06/08/2015 21:53

Tgt Ion:228 Resp: 22760

Ion	Ratio	Lower	Upper
228	100		
229	21.7	14.5	26.9
226	35.6	18.5	34.3#
0	0.0	0.0	0.0

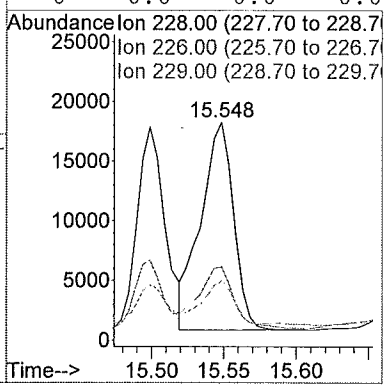


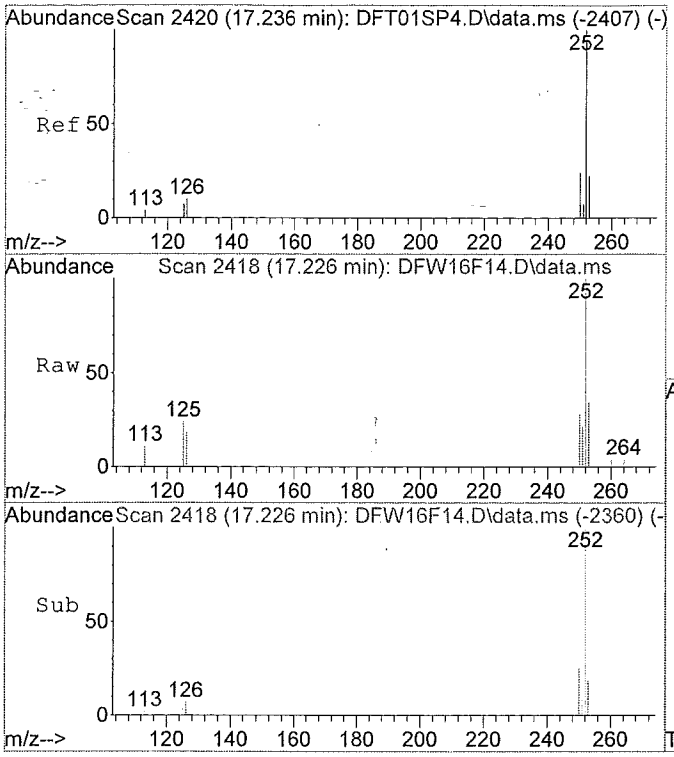


#18
Chrysene
Concen: 0.03 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFW16F14.D
Acq: 06/08/2015 21:53

Tgt Ion:228 Resp: 27750

Ion	Ratio	Lower	Upper
228	100		
226	31.4	19.7	36.7
229	19.8	14.5	26.9
0	0.0	0.0	0.0

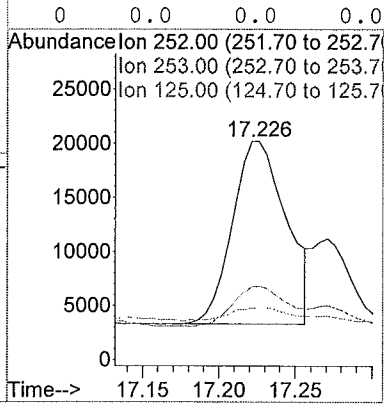


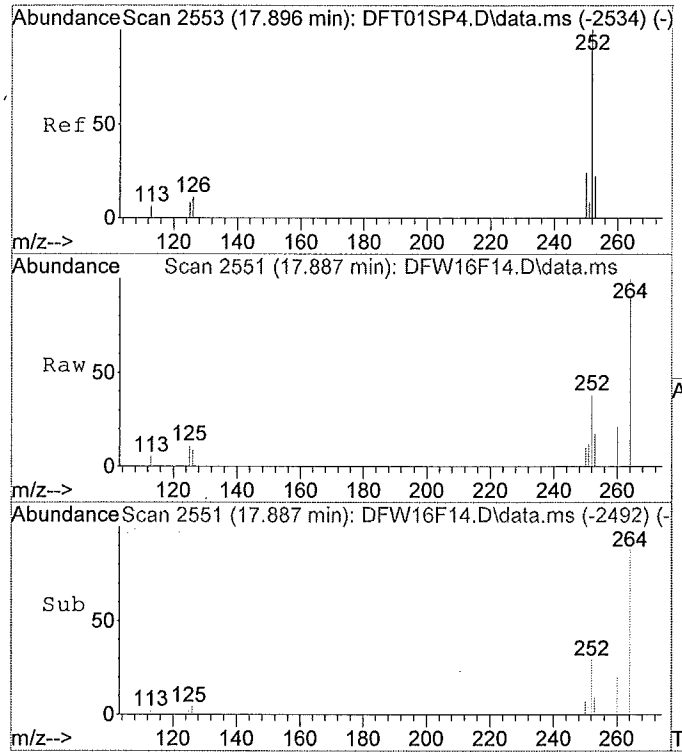


#20
Benzo(b)fluoranthene
Concen: 0.04 ug/ml
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DFW16F14.D
Acq: 06/08/2015 21:53

Tgt Ion:252 Resp: 41423

Ion	Ratio	Lower	Upper
252	100		
253	22.5	15.3	28.3
125	14.5	0.0	0.0#
0	0.0	0.0	0.0

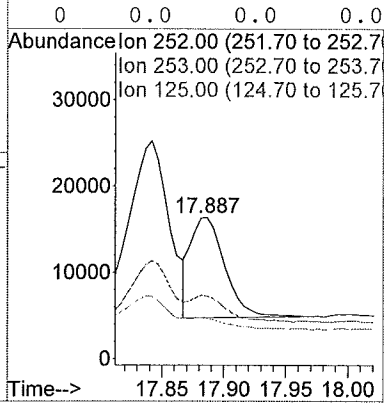


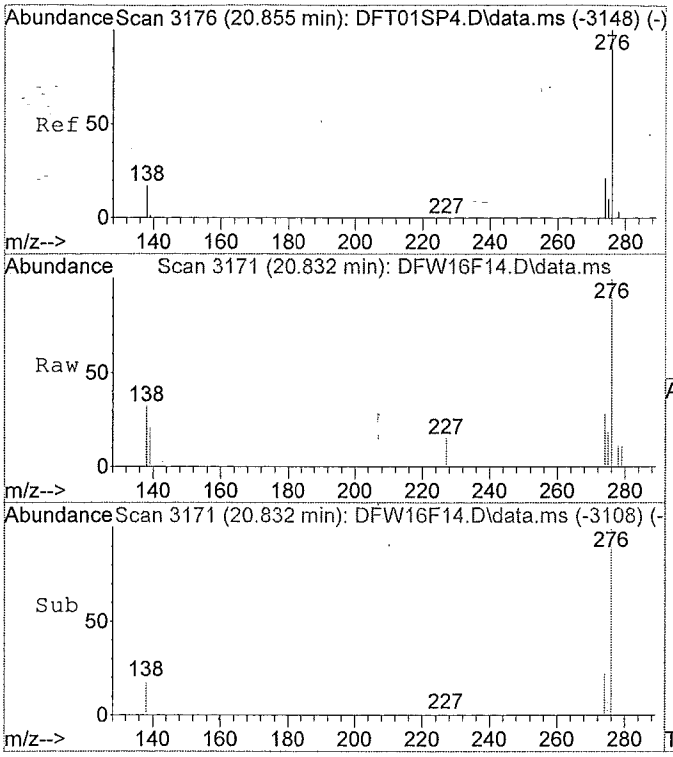


#22
Benzo(a)pyrene
Concen: 0.02 ug/ml
RT: 17.89 min Scan# 2551
Delta R.T. -0.00 min
Lab File: DFW16F14.D
Acq: 06/08/2015 21:53

Tgt Ion:252 Resp: 22555

Ion	Ratio	Lower	Upper
252	100		
253	0.0	15.0	27.8#
125	0.0	0.0	0.0
0	0.0	0.0	0.0

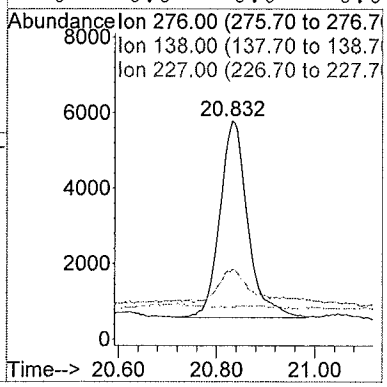




#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.02 ug/ml
RT: 20.83 min Scan# 3171
Delta R.T. -0.02 min
Lab File: DFW16F14.D
Acq: 06/08/2015 21:53

Tgt Ion:276 Resp: 20380

Ion	Ratio	Lower	Upper
276	100		
138	17.1	0.0	0.0#
227	0.0	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.

F9L70

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293015

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFN10F15

Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/16/2015

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

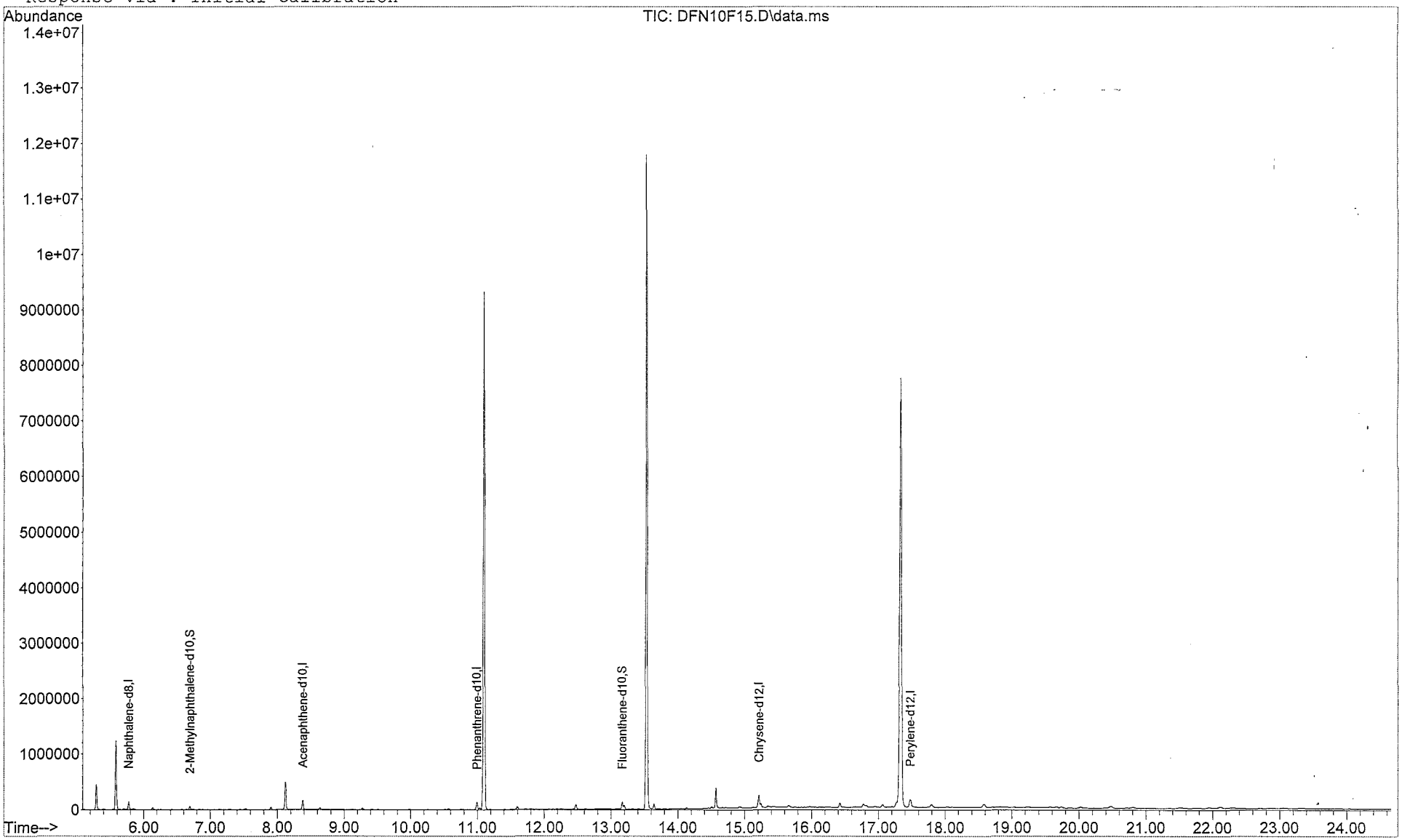
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.7	U
91-57-6	2-Methylnaphthalene	0.76	J
208-96-8	Acenaphthylene	3.7	U
83-32-9	Acenaphthene	3.7	U
86-73-7	Fluorene	3.7	U
87-86-5	Pentachlorophenol	7.5	U
85-01-8	Phenanthrene	2.2	J
120-12-7	Anthracene	1.9	J
206-44-0	Fluoranthene	3.3	J
129-00-0	Pyrene	4.1	
56-55-3	Benzo(a)anthracene	3.0	J
218-01-9	Chrysene	3.4	J
205-99-2	Benzo(b)fluoranthene	3.4	J
207-08-9	Benzo(k)fluoranthene	1.0	J
50-32-8	Benzo(a)pyrene	2.2	J
193-39-5	Indeno(1,2,3-cd)pyrene	3.1	J
53-70-3	Dibenzo(a,h)anthracene	3.7	U
191-24-2	Benzo(g,h,i)perylene	1.8	J

Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN10F15.D
Vial: 20
Acq On : 07/16/2015 12:47
Operator: DJC
Sample : 1514293015 F9L70
Inst : 5975-D
Misc : . SOIL SIM
Injection volume : 1uL
MS Integration Params: rteint.p
Column Identifier: DB-5MS

Quant Time: Jul 16 14:06:53 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 Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

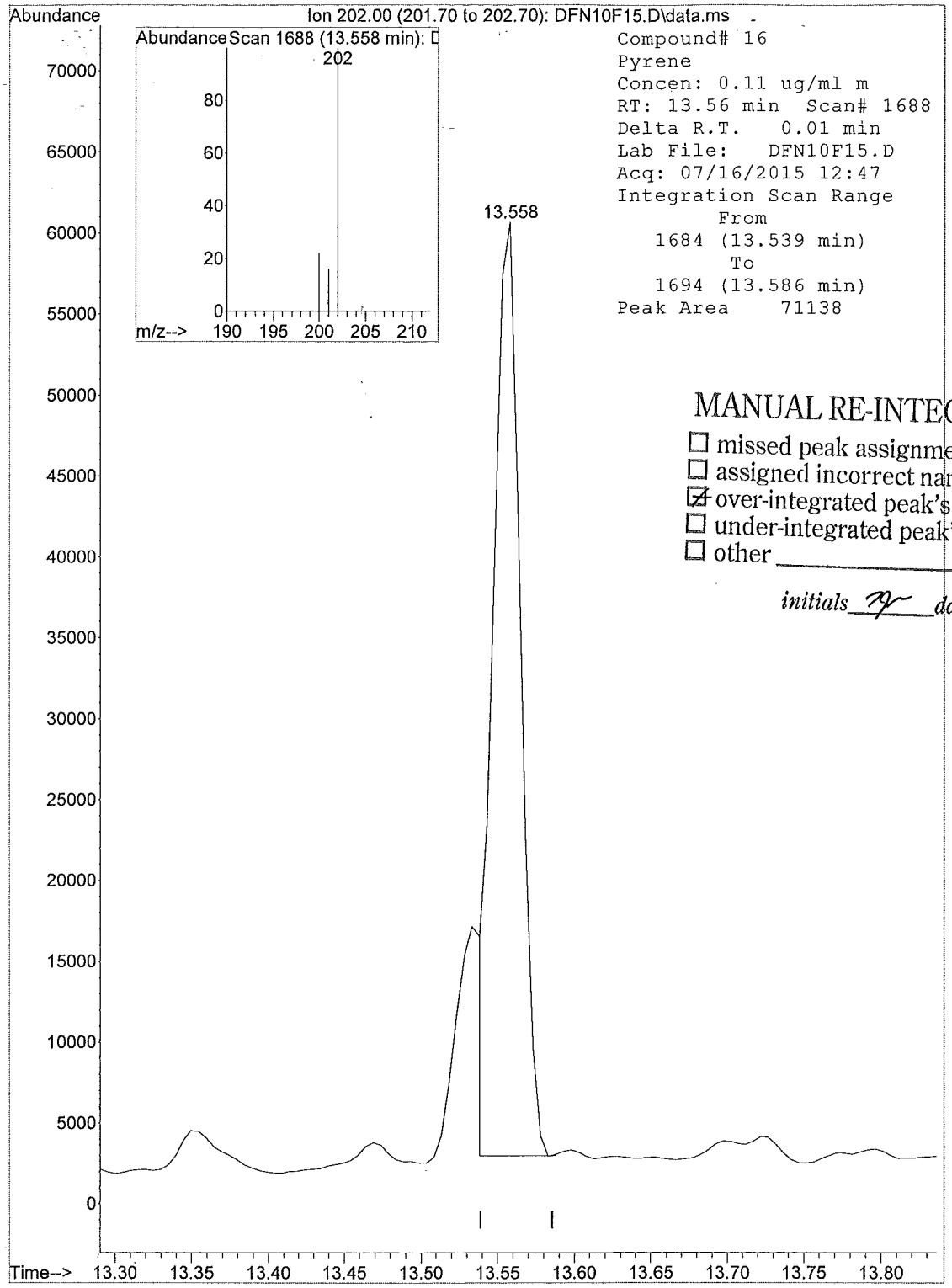
Data File : R:\D\2015\JUL15\16JUL15DPM\DFN10F15.D Vial: 20
Acq On : 07/16/2015 12:47 Operator: DJC
Sample : 1514293015 F9L70 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 16 14:06:53 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.78	136	159502	0.40 ug/ml	
5) Acenaphthene-d10	8.38	164	111622	0.40 ug/ml	
9) Phenanthrene-d10	10.99	188	183367	0.40 ug/ml	
15) Chrysene-d12	15.21	240	207038	0.40 ug/ml	
19) Perylene-d12	17.47	264	240389	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.69	152	60964	0.237ug/mL	
13) Fluoranthene-d10	13.17	212	137546	0.274ug/mL	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	6.74	142	5494	0.021ug/ml	99
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	11.03	178	30736	0.058ug/ml	98
12) Anthracene	11.13	178	26774	0.052ug/ml	94
14) Fluoranthene	13.20	202	54237	0.090ug/ml	85
16) Pyrene	13.56	202	71138	0.110ug/ml m	1 7.16.15
17) Benzo(a)anthracene	15.20	228	44479	0.081ug/ml	76
18) Chrysene	15.24	228	52754	0.090ug/ml	84
20) Benzo(b)fluoranthene	16.77	252	67986	0.091ug/ml	97
21) Benzo(k)fluoranthene	16.82	252	21497	0.028ug/ml m	98 7.16.15
22) Benzo(a)pyrene	17.37	252	43053	0.060ug/ml	95
23) Indeno(1,2,3-c,d)pyrene	20.02	276	52641	0.084ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	20.80	276	34847	0.049ug/ml	67

(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 Pyrene



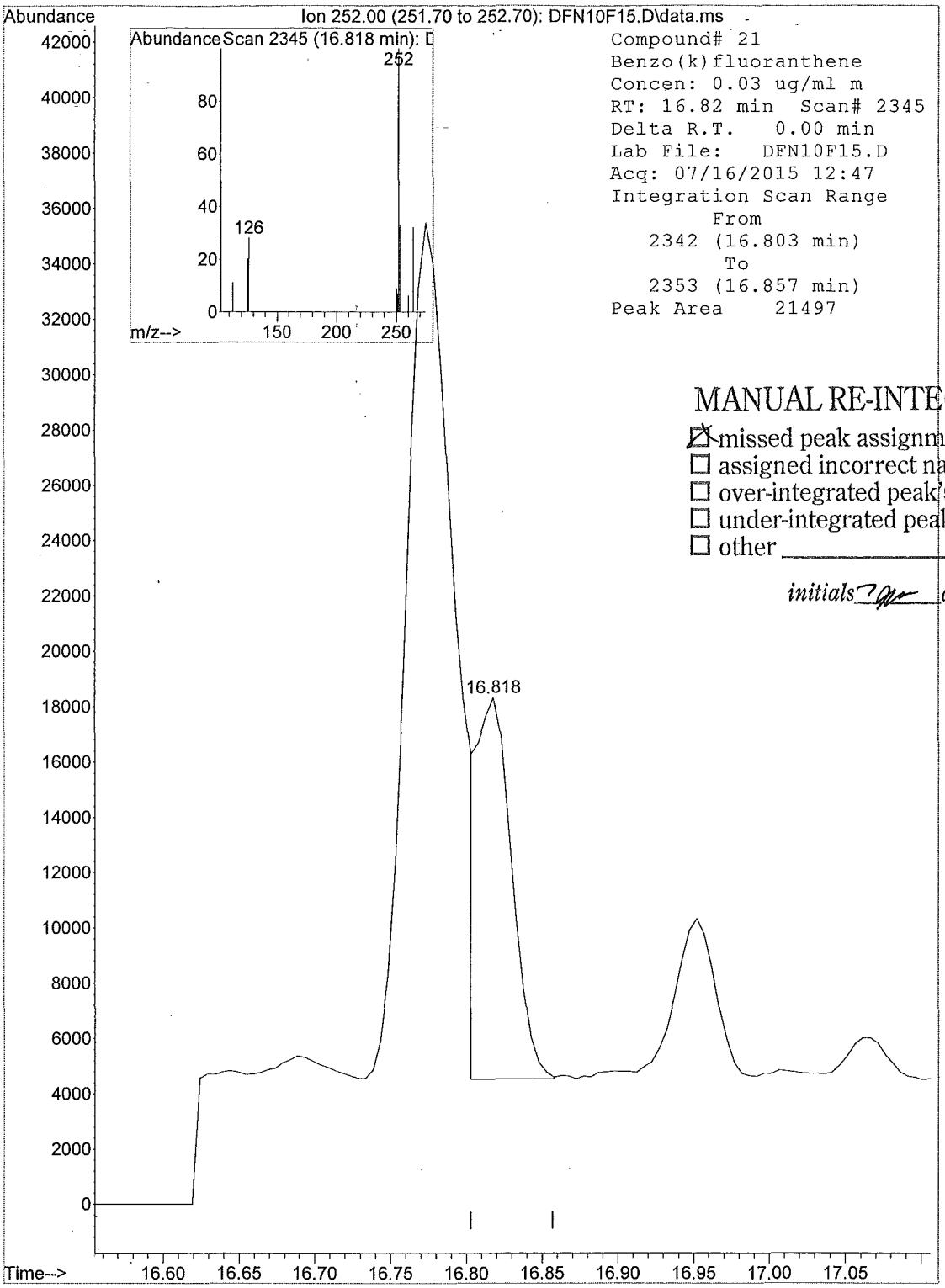
Compound# 16
Pyrene
Concen: 0.11 ug/ml m
RT: 13.56 min Scan# 1688
Delta R.T. 0.01 min
Lab File: DFN10F15.D
Acq: 07/16/2015 12:47
Integration Scan Range
From
1684 (13.539 min)
To
1694 (13.586 min)
Peak Area 71138

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials TJ *date* 7.16.15

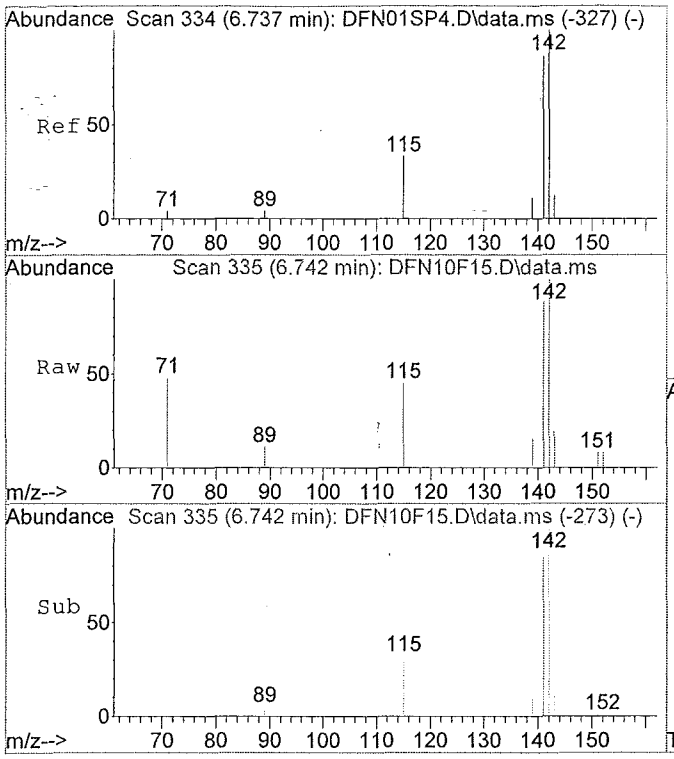
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

☒ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

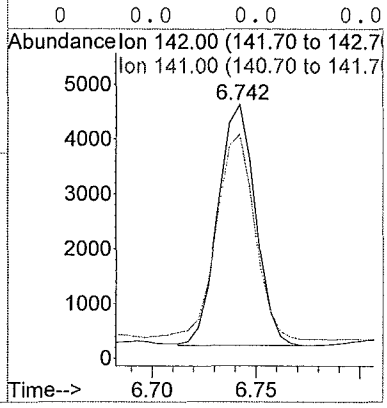
initials TJ *date* 7.16.15

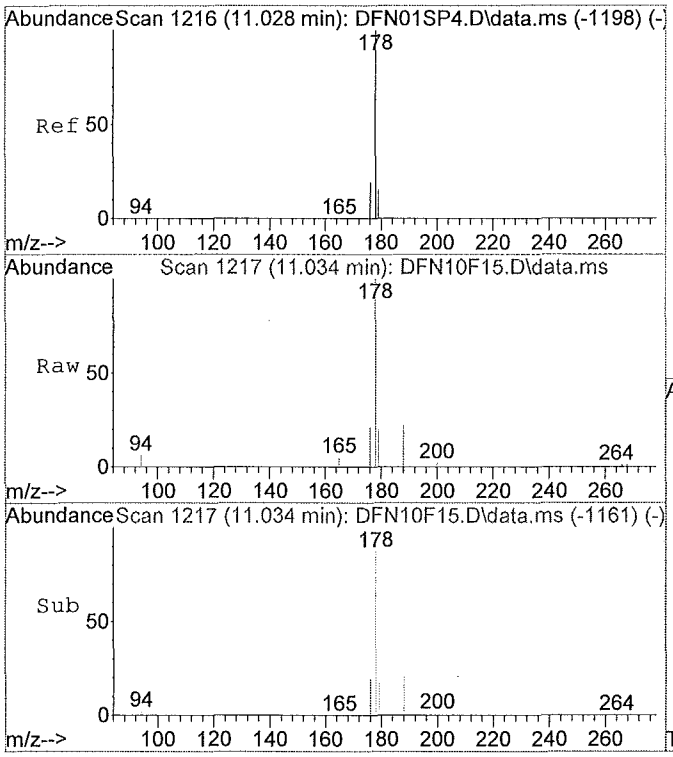


#4
2-Methylnaphthalene
Concen: 0.02 ug/ml
RT: 6.74 min Scan# 335
Delta R.T. 0.00 min
Lab File: DFN10F15.D
Acq: 07/16/2015 12:47

Tgt Ion:142 Resp: 5494

Ion	Ratio	Lower	Upper
142	100		
141	88.4	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

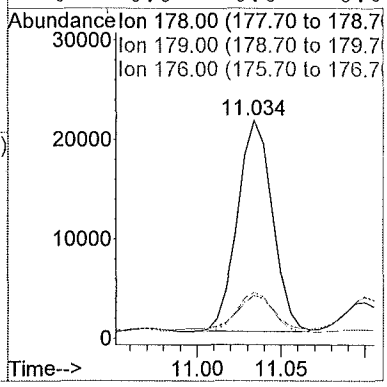


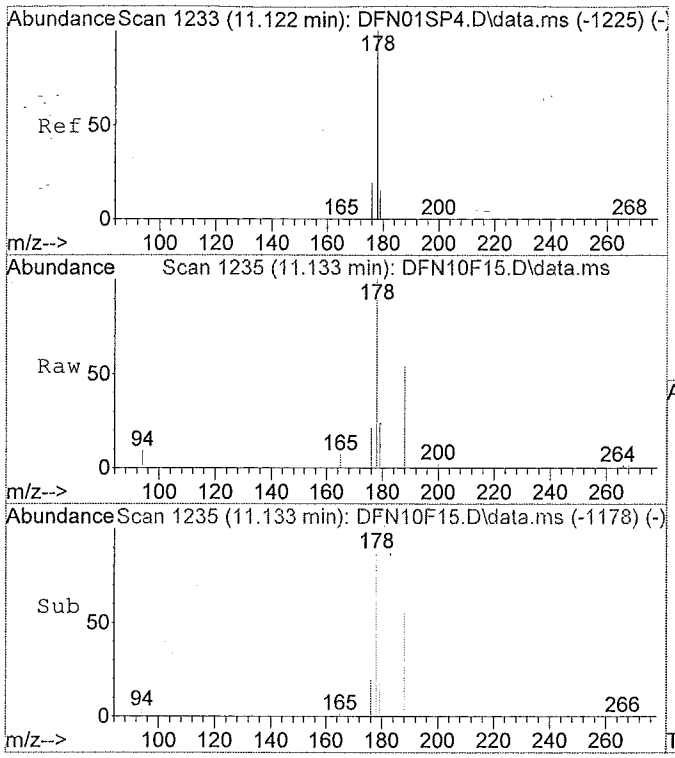


#11
Phenanthrene
Concen: 0.06 ug/ml
RT: 11.03 min Scan# 1217
Delta R.T. 0.01 min
Lab File: DFN10F15.D
Acq: 07/16/2015 12:47

Tgt Ion:178 Resp: 30736

Ion	Ratio	Lower	Upper
178	100		
179	17.0	11.1	20.5
176	19.3	14.1	26.1
0	0.0	0.0	0.0

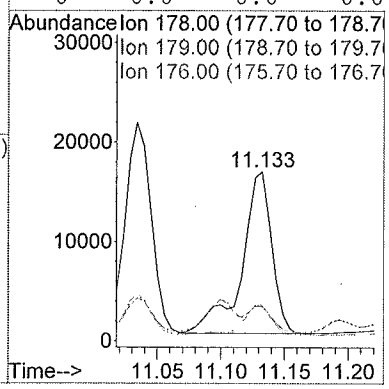


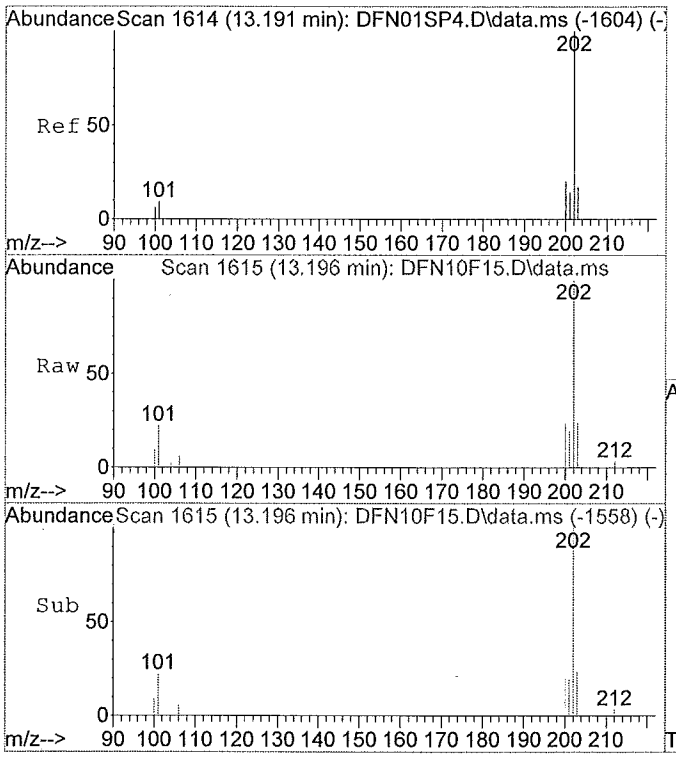


#12
Anthracene
Concen: 0.05 ug/ml
RT: 11.13 min Scan# 1235
Delta R.T. 0.01 min
Lab File: DFN10F15.D
Acq: 07/16/2015 12:47

Tgt Ion:178 Resp: 26774

Ion	Ratio	Lower	Upper
178	100		
179	12.7	11.6	21.6
176	18.0	13.9	25.7
0	0.0	0.0	0.0

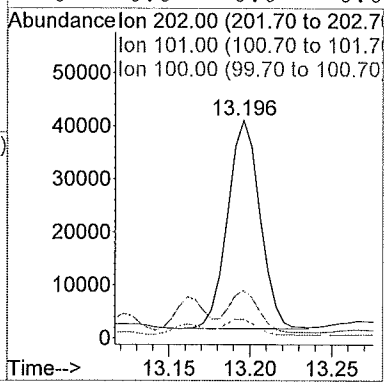


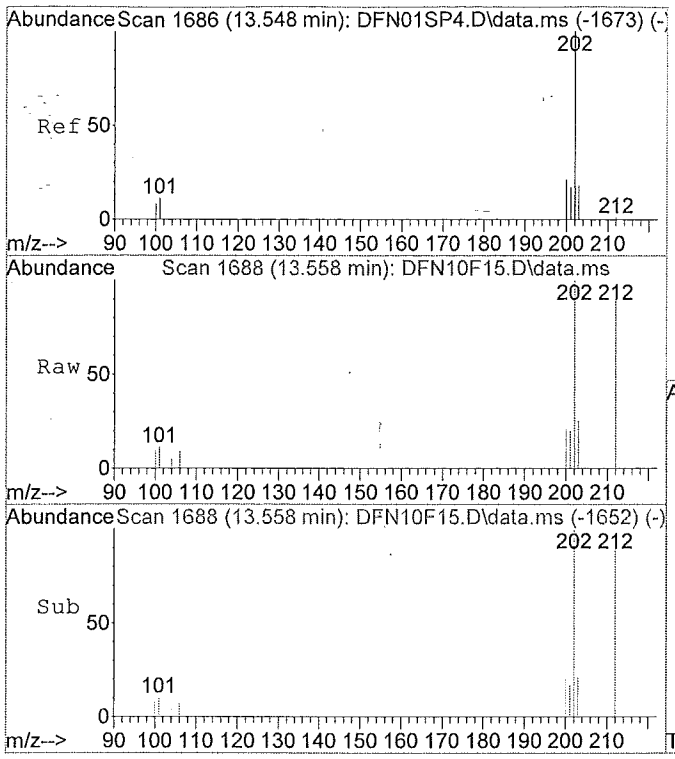


#14
Fluoranthene
Concen: 0.09 ug/ml
RT: 13.20 min Scan# 1615
Delta R.T. 0.00 min
Lab File: DFN10F15.D
Acq: 07/16/2015 12:47

Tgt Ion:202 Resp: 54237

Ion	Ratio	Lower	Upper
202	100		
101	19.5	9.4	17.6#
100	8.4	0.0	0.0#
0	0.0	0.0	0.0

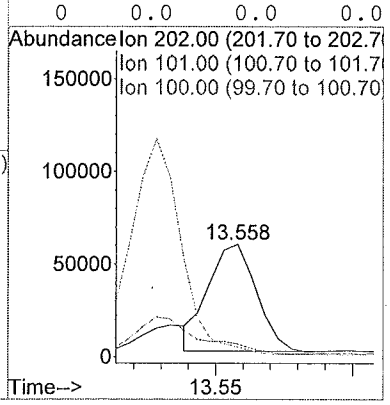


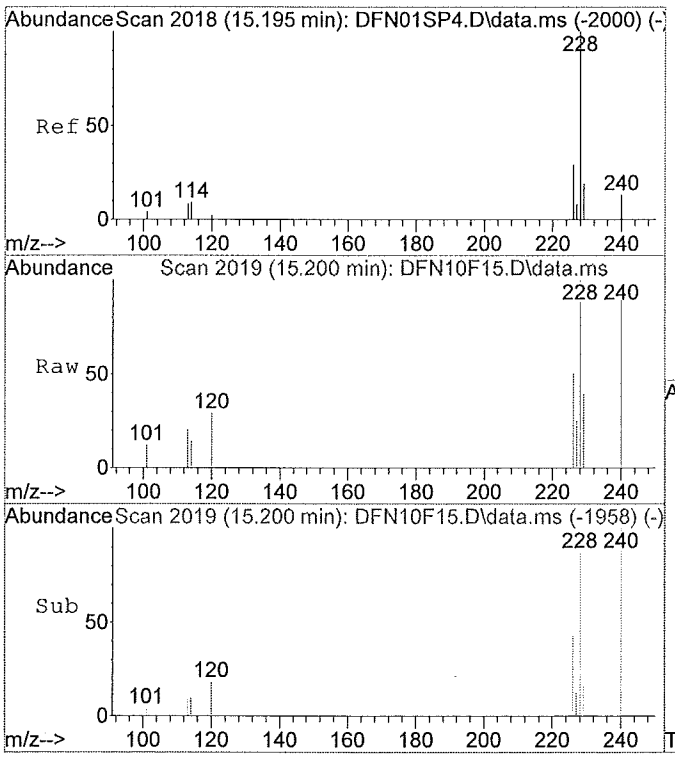


#16
Pyrene
Concen: 0.11 ug/ml m
RT: 13.56 min Scan# 1688
Delta R.T. 0.01 min
Lab File: DFN10F15.D
Acq: 07/16/2015 12:47

Tgt Ion:202 Resp: 71138

Ion	Ratio	Lower	Upper
202	100		
101	48.6	10.6	19.6#
100	215.9	9.4	17.4#
0	0.0	0.0	0.0

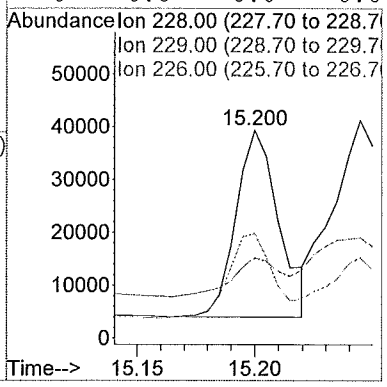


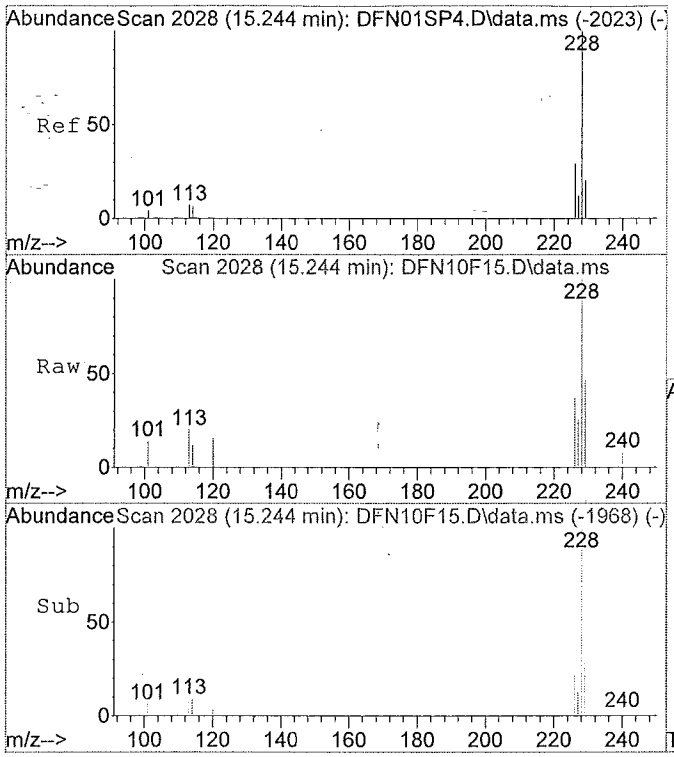


#17
Benzo(a)anthracene
Concen: 0.08 ug/ml
RT: 15.20 min Scan# 2019
Delta R.T. 0.01 min
Lab File: DFN10F15.D
Acq: 07/16/2015 12:47

Tgt Ion:228 Resp: 44479

Ion	Ratio	Lower	Upper
228	100		
229	23.7	14.5	26.9
226	45.6	18.5	34.3#
0	0.0	0.0	0.0

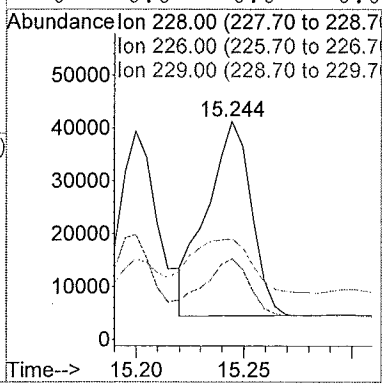


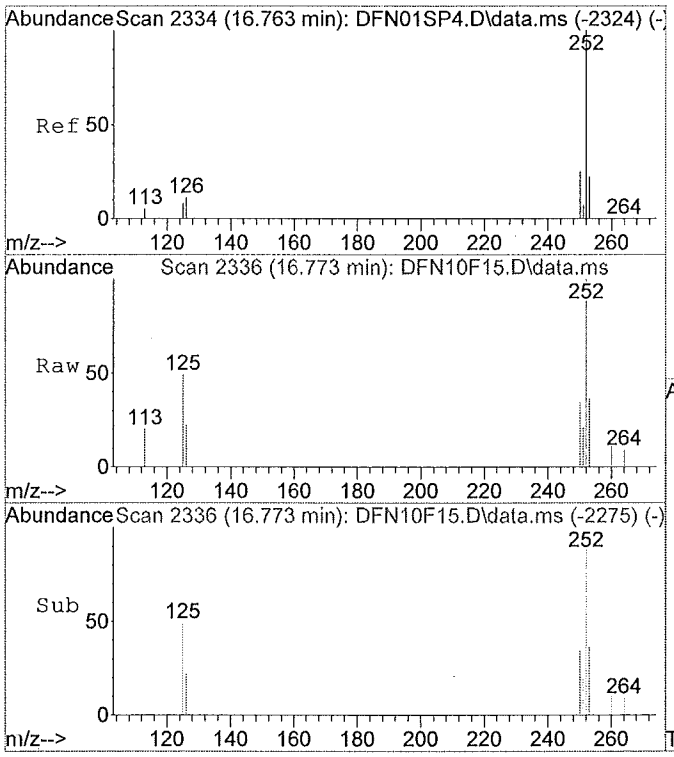


#18
Chrysene
Concen: 0.09 ug/ml
RT: 15.24 min Scan# 2028
Delta R.T. 0.00 min
Lab File: DFN10F15.D
Acq: 07/16/2015 12:47

Tgt Ion:228 Resp: 52754

Ion	Ratio	Lower	Upper
228	100		
226	29.1	19.7	36.7
229	37.5	14.5	26.9#
0	0.0	0.0	0.0

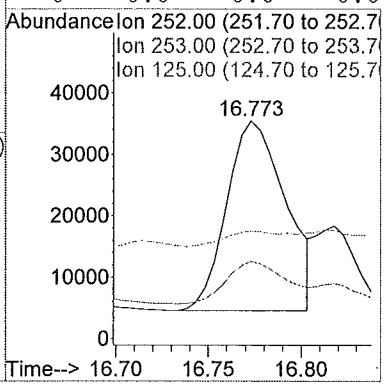


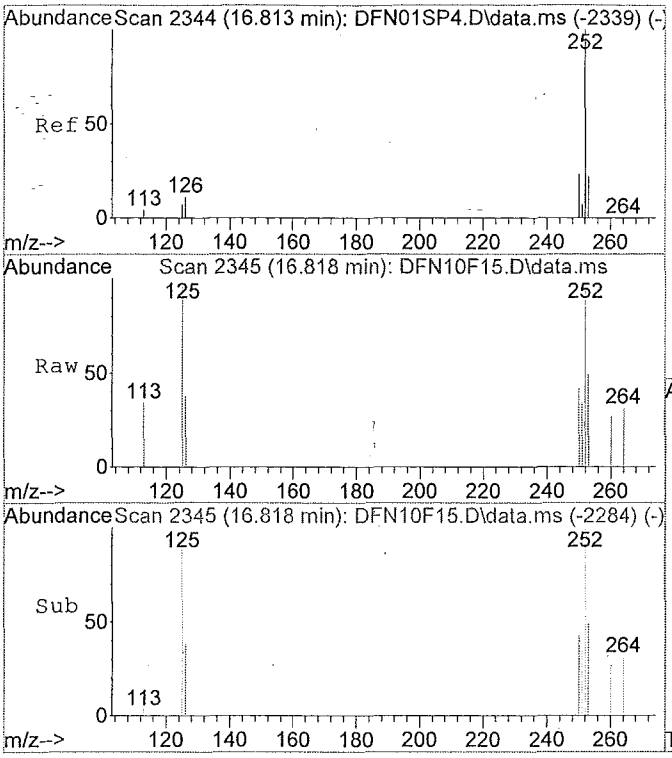


#20
Benzo(b)fluoranthene
Concen: 0.09 ug/ml
RT: 16.77 min Scan# 2336
Delta R.T. 0.01 min
Lab File: DFN10F15.D
Acq: 07/16/2015 12:47

Tgt Ion:252 Resp: 67986

Ion	Ratio	Lower	Upper
252	100		
253	20.4	15.3	28.3
125	0.0	0.0	0.0
0	0.0	0.0	0.0

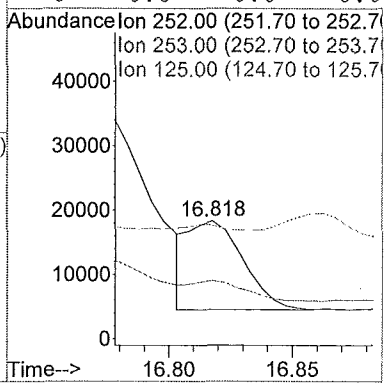


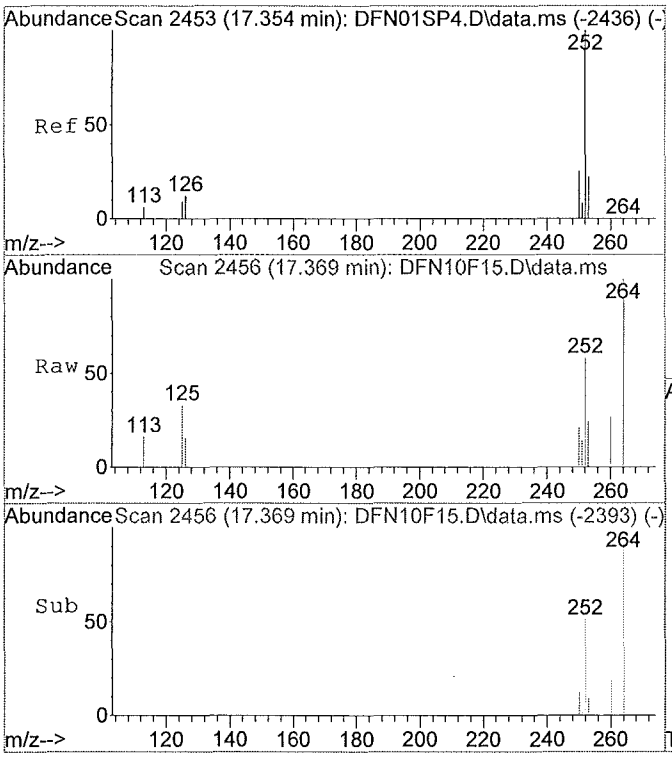


#21
Benzo(k)fluoranthene
Concen: 0.03 ug/ml m
RT: 16.82 min Scan# 2345
Delta R.T. 0.00 min
Lab File: DFN10F15.D
Acq: 07/16/2015 12:47

Tgt Ion:252 Resp: 21497

Ion	Ratio	Lower	Upper
252	100		
253	64.5	15.0	27.8#
125	0.0	0.0	0.0
0	0.0	0.0	0.0

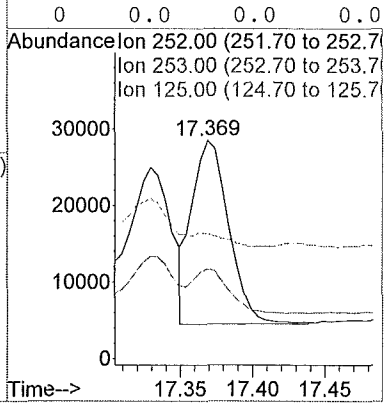


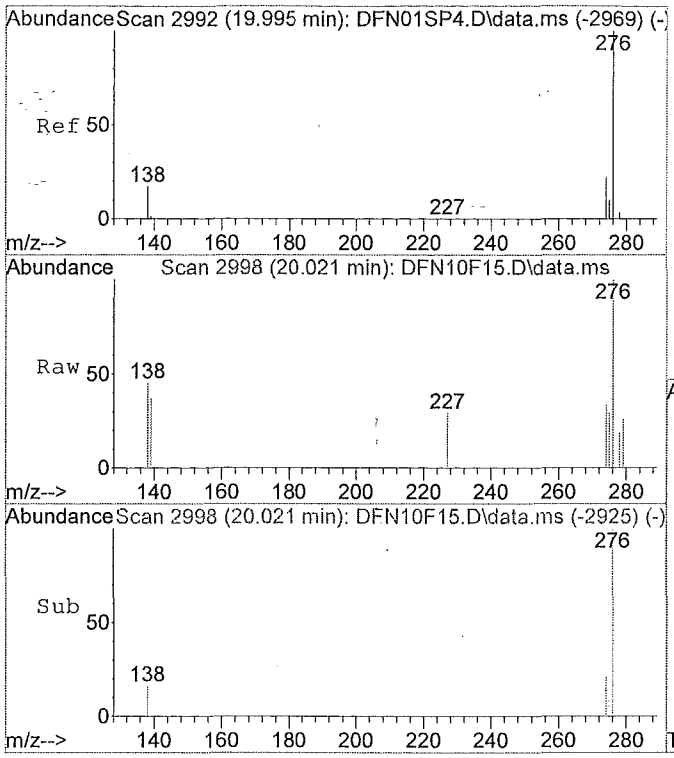


#22
Benzo(a)pyrene
Concen: 0.06 ug/ml
RT: 17.37 min Scan# 2456
Delta R.T. 0.01 min
Lab File: DFN10F15.D
Acq: 07/16/2015 12:47

Tgt Ion:252 Resp: 43053

Ion	Ratio	Lower	Upper
252	100		
253	23.9	15.0	27.8
125	0.0	0.0	0.0
0	0.0	0.0	0.0

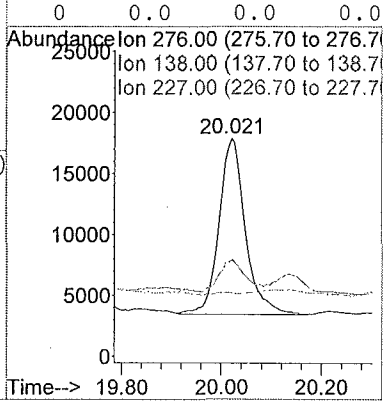


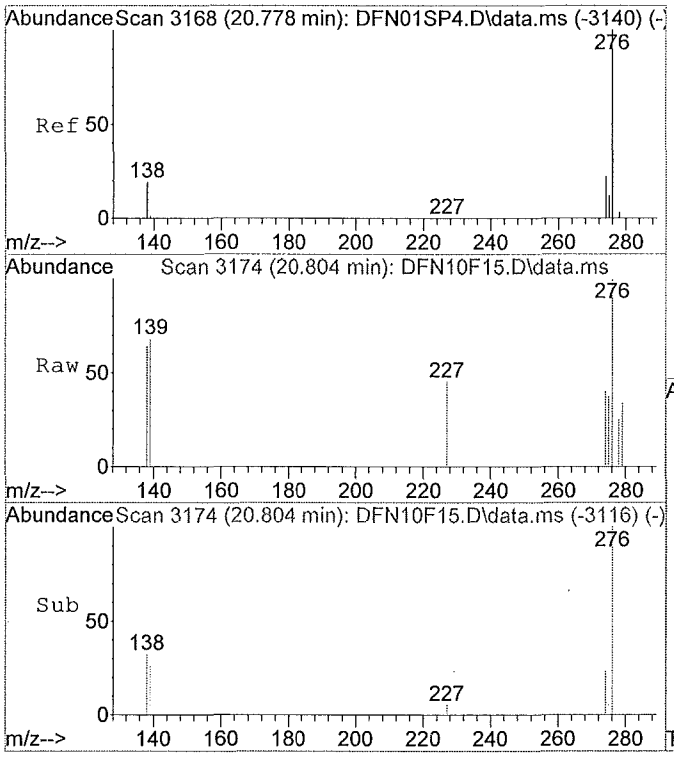


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.08 ug/ml
RT: 20.02 min Scan# 2998
Delta R.T. 0.03 min
Lab File: DFN10F15.D
Acq: 07/16/2015 12:47

Tgt Ion:276 Resp: 52641

Ion	Ratio	Lower	Upper
276	100		
138	17.2	0.0	0.0#
227	0.2	0.0	0.0#
0	0.0	0.0	0.0

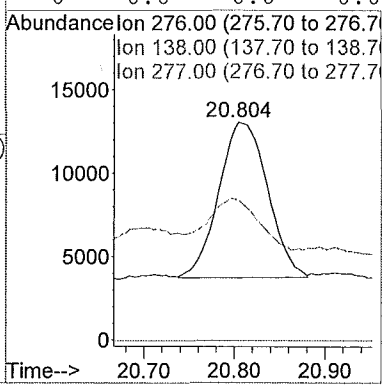




#25
Benzo(g,h,i)perylene
Concen: 0.05 ug/ml
RT: 20.80 min Scan# 3174
Delta R.T. 0.03 min
Lab File: DFN10F15.D
Acq: 07/16/2015 12:47

Tgt Ion:276 Resp: 34847

Ion	Ratio	Lower	Upper
276	100		
138	31.6	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.: F9L71

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293016

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DFW18F16

Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/08/2015

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.9	U
91-57-6	2-Methylnaphthalene	3.9	U
208-96-8	Acenaphthylene	3.9	U
83-32-9	Acenaphthene	3.9	U
86-73-7	Fluorene	3.9	U
87-86-5	Pentachlorophenol	7.8	U
85-01-8	Phenanthrene	3.9	U
120-12-7	Anthracene	3.9	U
206-44-0	Fluoranthene	3.9	U
129-00-0	Pyrene	3.9	U
56-55-3	Benzo(a)anthracene	3.9	U
218-01-9	Chrysene	3.9	U
205-99-2	Benzo(b)fluoranthene	3.9	U
207-08-9	Benzo(k)fluoranthene	3.9	U
50-32-8	Benzo(a)pyrene	3.9	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.9	U
53-70-3	Dibenzo(a,h)anthracene	3.9	U
191-24-2	Benzo(g,h,i)perylene	3.9	U

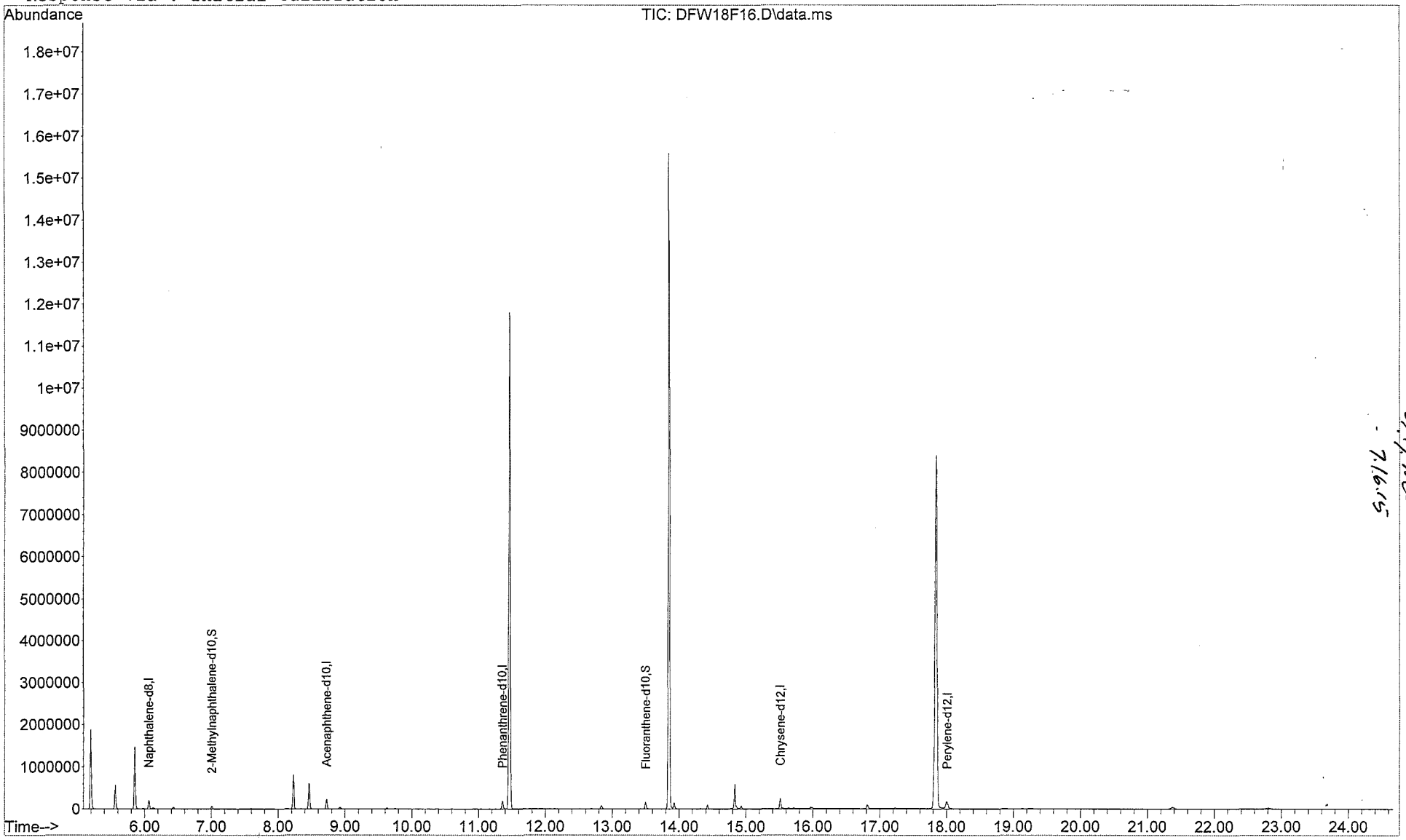
Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW18F16.D
Acq On : 06/08/2015 22:52
Sample : 1514293016 F9L71
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 17
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 15:11:06 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 Jul 15 14:52:03 2015
Response via : Initial Calibration



7.16.15

Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW18F16.D Vial: 17
Acq On : 06/08/2015 22:52 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 15:11:06 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 Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.06	136	223849	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	152977	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	258487	0.40 ug/ml
15) Chrysene-d12	15.51	240	263922	0.40 ug/ml
19) Perylene-d12	18.01	264	296220	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	78420	0.217ug/mL
13) Fluoranthene-d10	13.50	212	188761	0.267ug/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.

F9L72

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293017

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFW19F17

Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/08/2015

GPC Cleanup: (Y/N) Y pH: 6.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.8	U
91-57-6	2-Methylnaphthalene	3.8	U
208-96-8	Acenaphthylene	3.8	U
83-32-9	Acenaphthene	3.8	U
86-73-7	Fluorene	3.8	U
87-86-5	Pentachlorophenol	7.8	U
85-01-8	Phenanthrene	3.8	U
120-12-7	Anthracene	3.8	U
206-44-0	Fluoranthene	3.8	U
129-00-0	Pyrene	3.8	U
56-55-3	Benzo(a)anthracene	3.8	U
218-01-9	Chrysene	3.8	U
205-99-2	Benzo(b)fluoranthene	3.8	U
207-08-9	Benzo(k)fluoranthene	3.8	U
50-32-8	Benzo(a)pyrene	3.8	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.8	U
53-70-3	Dibenzo(a,h)anthracene	3.8	U
191-24-2	Benzo(g,h,i)perylene	1.1	J

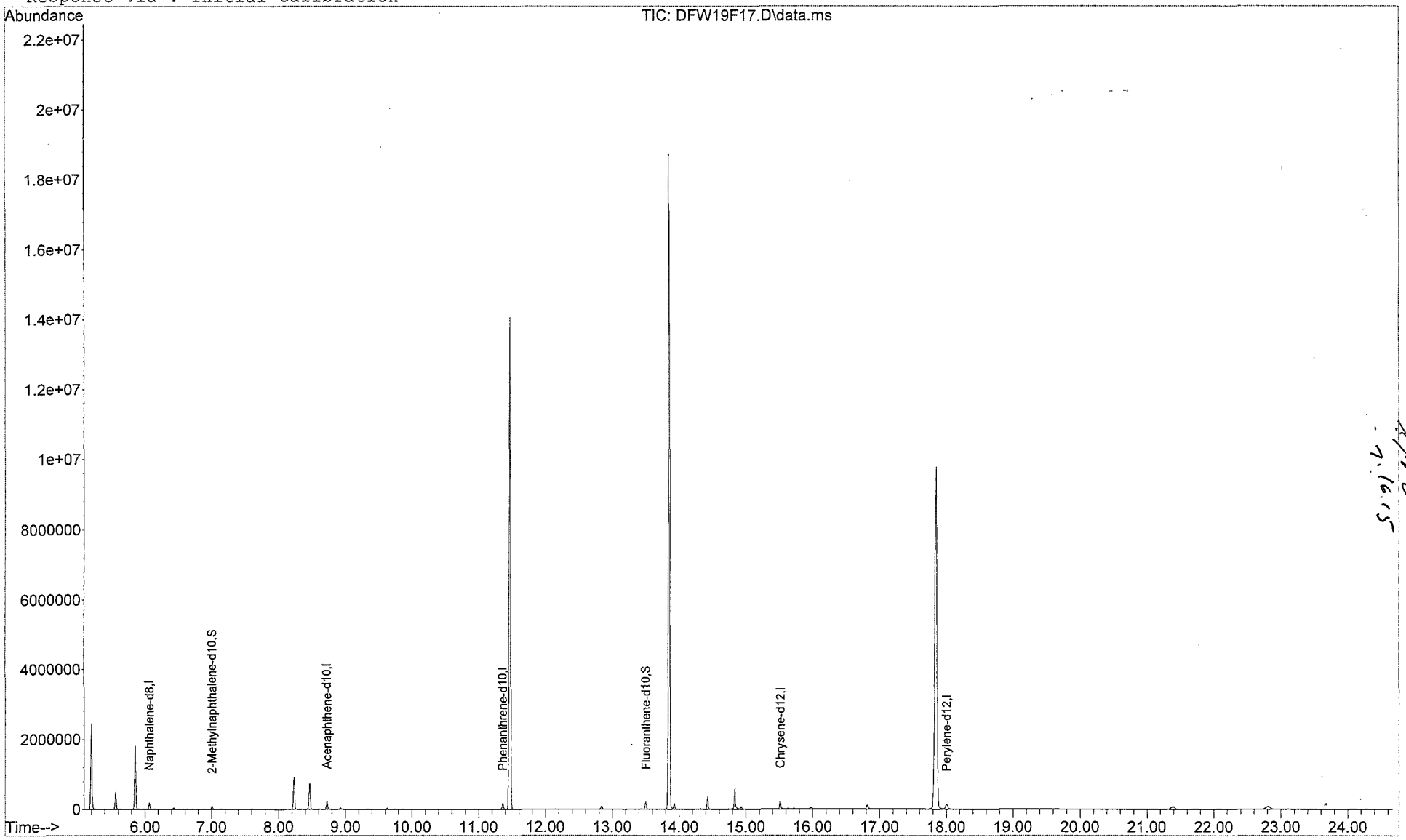
Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW19F17.D
Acq On : 06/08/2015 23:22
Sample : 1514293017 F9L72
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 18
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 15:11:14 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 Jul 15 14:52:03 2015
Response via : Initial Calibration



7.16.15

Quantitation Report

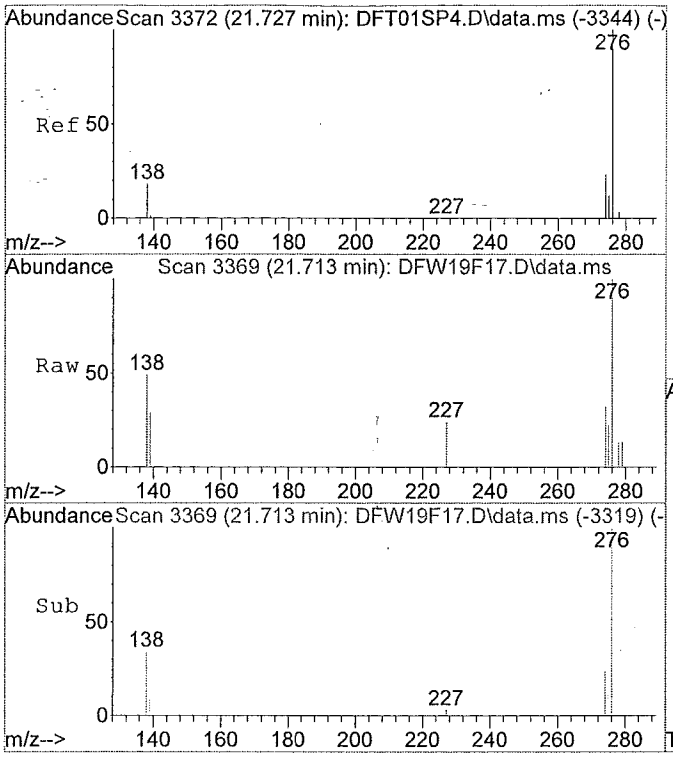
Data File : R:\D\2015\JUN15\08JUN15\DFW19F17.D Vial: 18
Acq On : 06/08/2015 23:22 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 15:11:14 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.06	136	206483	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	146625	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	240091	0.40 ug/ml
15) Chrysene-d12	15.51	240	247473	0.40 ug/ml
19) Perylene-d12	18.00	264	263911	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.00	152	105616	0.317ug/mL
13) Fluoranthene-d10	13.50	212	229691	0.350ug/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	21.71	276	22568	0.029ug/ml	51

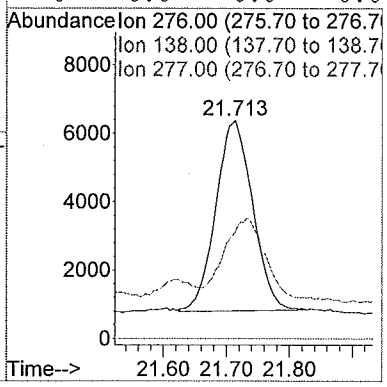
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#25
Benzo(g,h,i)perylene
Concen: 0.03 ug/ml
RT: 21.71 min Scan# 3369
Delta R.T. -0.01 min
Lab File: DFW19F17.D
Acq: 06/08/2015 23:22

Tgt Ion:276 Resp: 22568

Ion	Ratio	Lower	Upper
276	100		
138	47.1	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:

F9L73

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293018

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFW24F18

Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/09/2015

GPC Cleanup: (Y/N) Y pH: 5.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.8	U
91-57-6	2-Methylnaphthalene	3.8	U
208-96-8	Acenaphthylene	3.8	U
83-32-9	Acenaphthene	0.79	J
86-73-7	Fluorene	3.8	U
87-86-5	Pentachlorophenol	7.7	U
85-01-8	Phenanthrene	3.8	U
120-12-7	Anthracene	3.8	U
206-44-0	Fluoranthene	3.8	U
129-00-0	Pyrene	3.8	U
56-55-3	Benzo(a)anthracene	3.8	U
218-01-9	Chrysene	3.8	U
205-99-2	Benzo(b)fluoranthene	3.8	U
207-08-9	Benzo(k)fluoranthene	3.8	U
50-32-8	Benzo(a)pyrene	3.8	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.8	U
53-70-3	Dibenzo(a,h)anthracene	3.8	U
191-24-2	Benzo(g,h,i)perylene	1.4	J

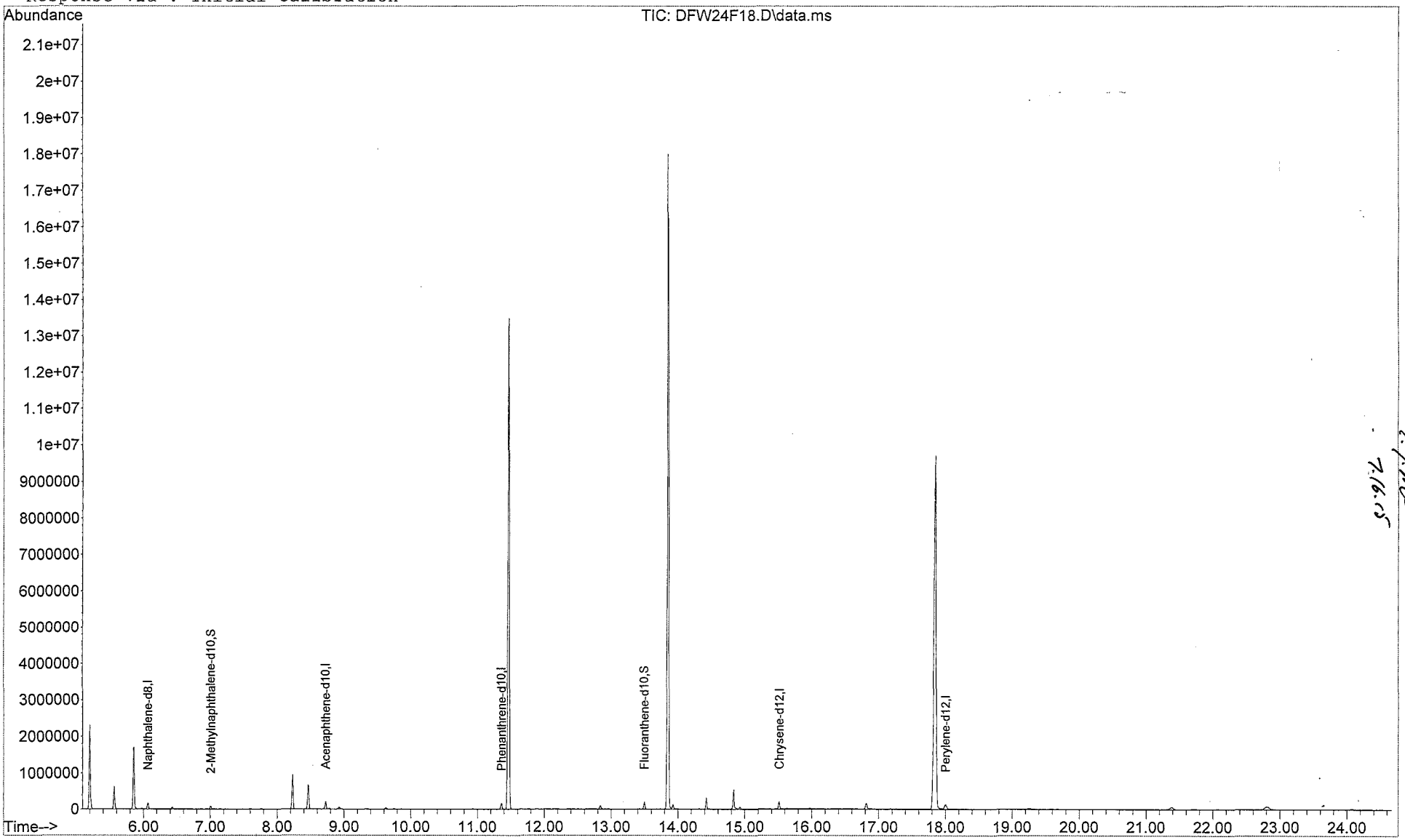
Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW24F18.D
Acq On : 06/09/2015 01:20
Sample : 1514293018 F9L73
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 19
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 15:09:29 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 Jul 15 14:52:03 2015
Response via : Initial Calibration



7.16.15

Quantitation Report

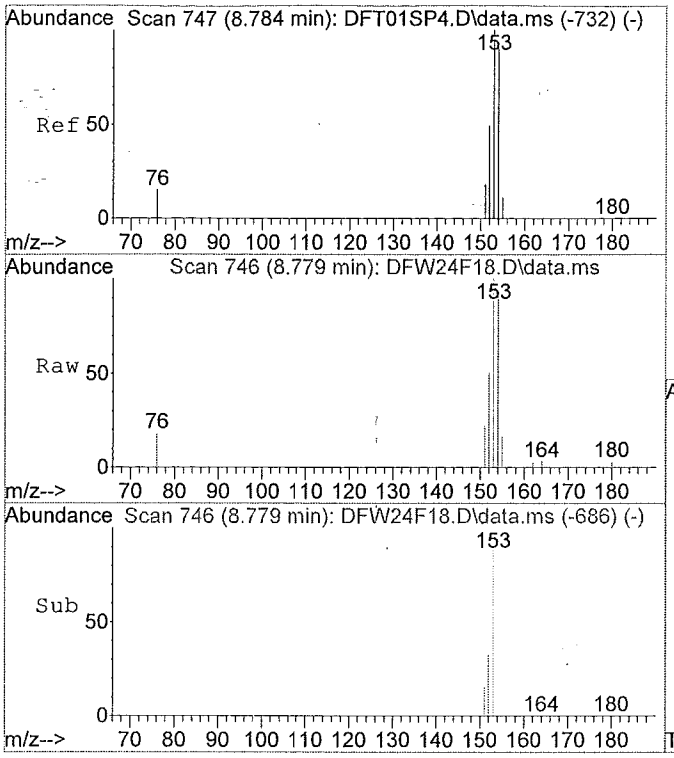
Data File : R:\D\2015\JUN15\08JUN15\DFW24F18.D Vial: 19
Acq On : 06/09/2015 01:20 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 15:09:29 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.06	136	188322	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	132837	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	215212	0.40 ug/ml
15) Chrysene-d12	15.51	240	227206	0.40 ug/ml
19) Perylene-d12	18.00	264	248517	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.00	152	90187	0.297ug/mL
13) Fluoranthene-d10	13.49	212	222147	0.377ug/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	8.78	153	7662	0.021ug/ml	97
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	21.71	276	26666	0.037ug/ml	65

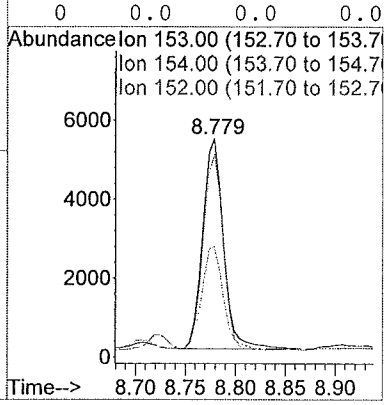
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

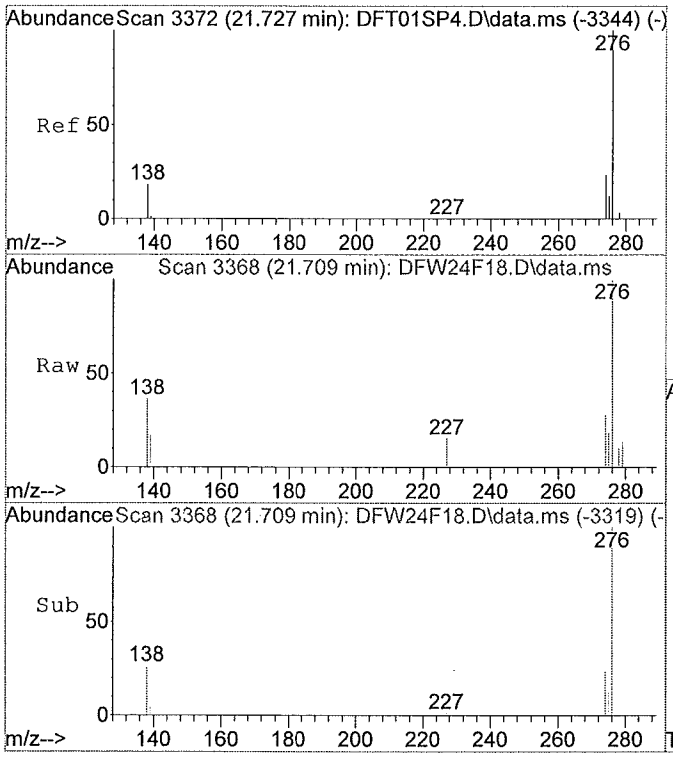


#7
Acenaphthene
Concen: 0.02 ug/ml
RT: 8.78 min Scan# 746
Delta R.T. -0.00 min
Lab File: DFW24F18.D
Acq: 06/09/2015 01:20

Tgt Ion:153 Resp: 7662

Ion	Ratio	Lower	Upper
153	100		
154	89.5	65.1	120.9
152	49.7	35.2	65.4
0	0.0	0.0	0.0

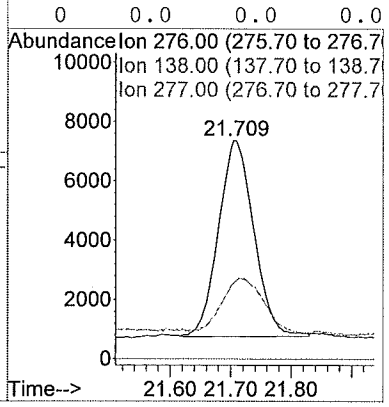




#25
Benzo(g,h,i)perylene
Concen: 0.04 ug/ml
RT: 21.71 min Scan# 3368
Delta R.T. -0.01 min
Lab File: DFW24F18.D
Acq: 06/09/2015 01:20

Tgt Ion:276 Resp: 26666

Ion	Ratio	Lower	Upper
276	100		
138	33.5	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.

F9L75

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293019

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFW25F19

Extraction: (Type) SONC

% Moisture: 13. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/09/2015

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.8	U
91-57-6	2-Methylnaphthalene	3.8	U
208-96-8	Acenaphthylene	3.8	U
83-32-9	Acenaphthene	3.8	U
86-73-7	Fluorene	3.8	U
87-86-5	Pentachlorophenol	7.6	U
85-01-8	Phenanthrene	1.3	J
120-12-7	Anthracene	3.8	U
206-44-0	Fluoranthene	2.4	J
129-00-0	Pyrene	2.5	J
56-55-3	Benzo(a)anthracene	1.8	J
218-01-9	Chrysene	2.2	J
205-99-2	Benzo(b)fluoranthene	2.4	J
207-08-9	Benzo(k)fluoranthene	3.8	U
50-32-8	Benzo(a)pyrene	1.4	J
193-39-5	Indeno(1,2,3-cd)pyrene	1.5	J
53-70-3	Dibenzo(a,h)anthracene	3.8	U
191-24-2	Benzo(g,h,i)perylene	1.7	J

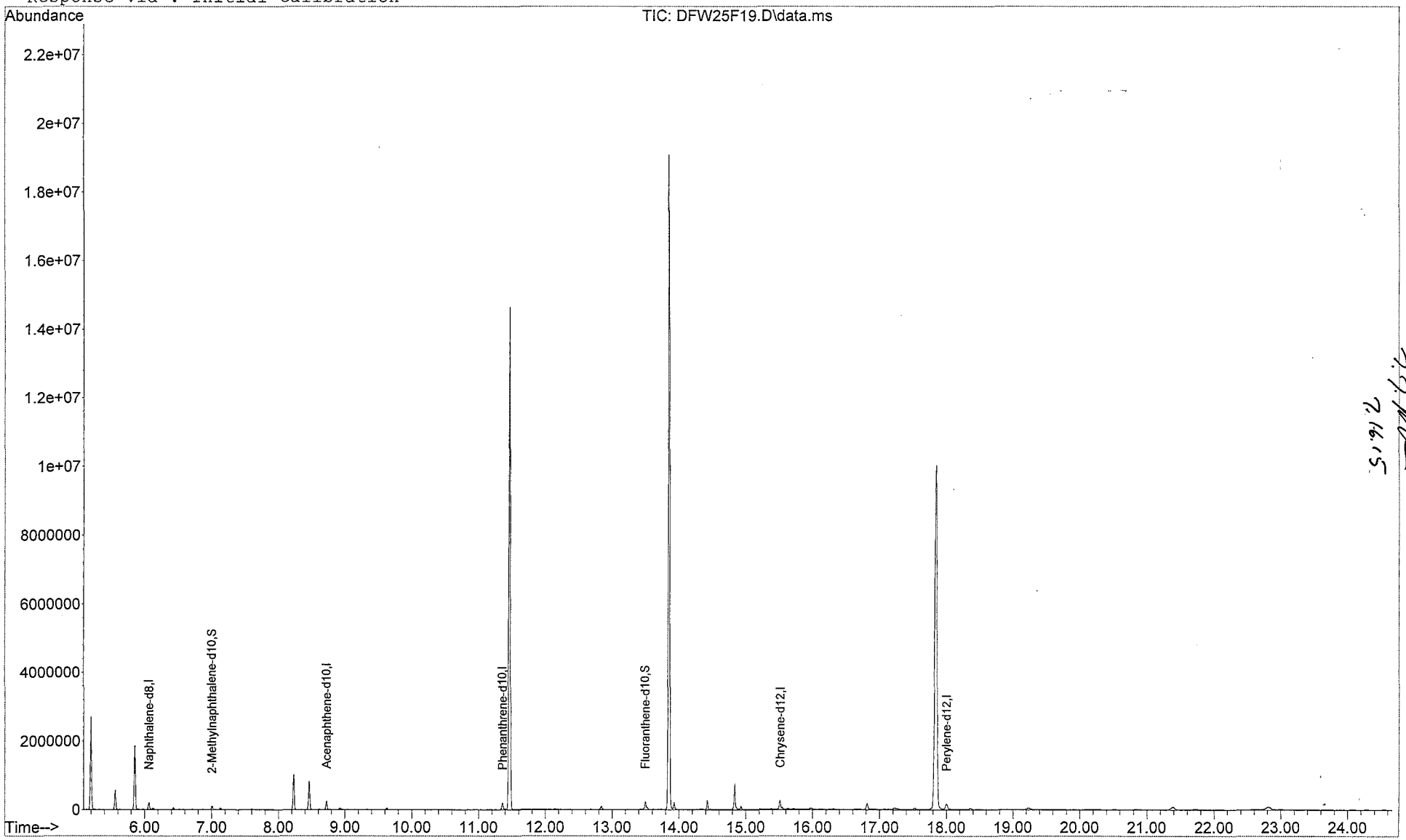
Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW25F19.D
Acq On : 06/09/2015 01:50
Sample : 1514293019 F9L75
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 20
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 15:05:31 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



7.16.15

Quantitation Report

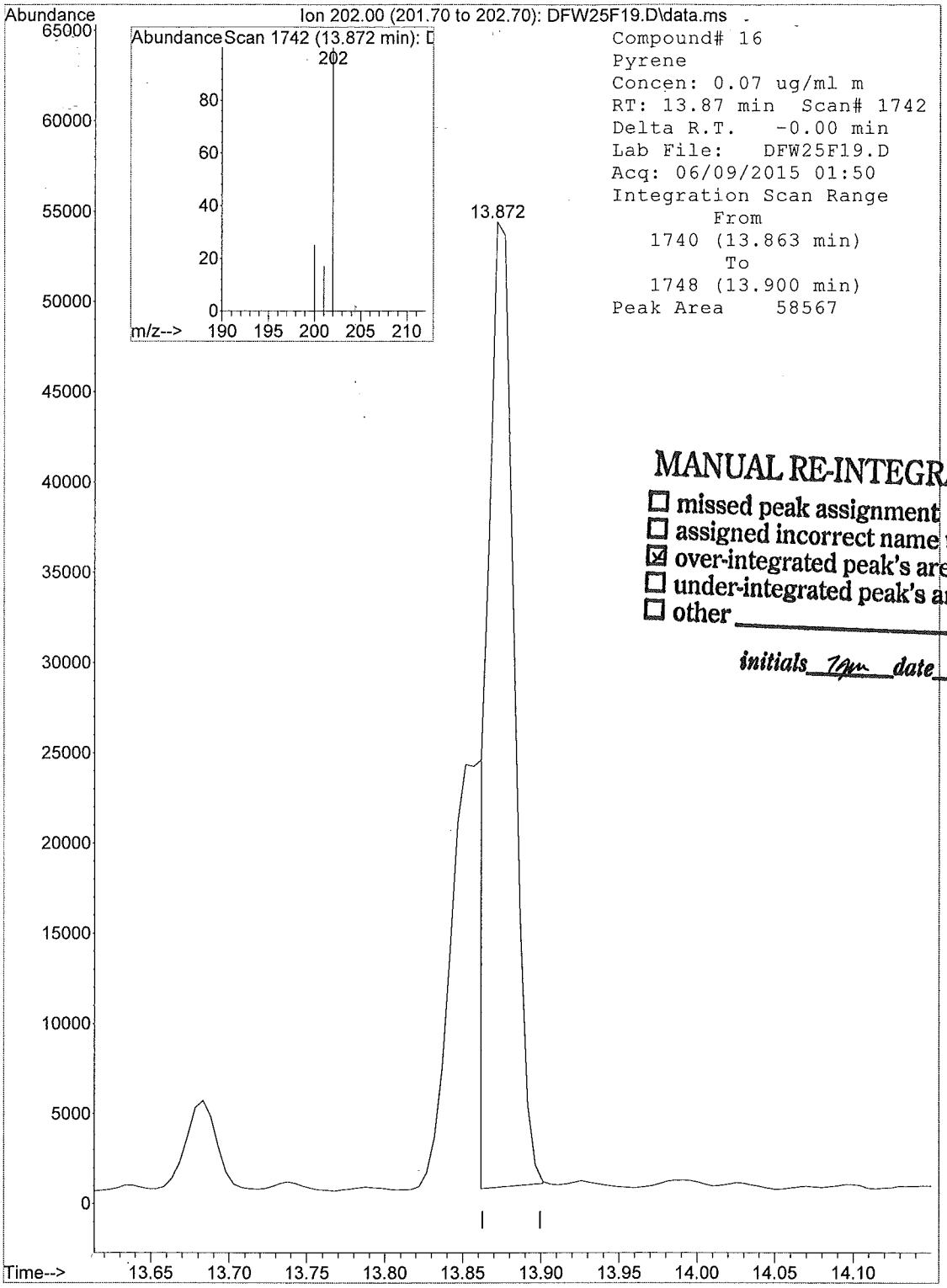
Data File : R:\D\2015\JUN15\08JUN15\DFW25F19.D Vial: 20
Acq On : 06/09/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 15:05:31 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.06	136	230562	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	163032	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	272824	0.40 ug/ml	
15) Chrysene-d12	15.51	240	278600	0.40 ug/ml	
19) Perylene-d12	18.00	264	296946	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	114920	0.309ug/mL	
13) Fluoranthene-d10	13.49	212	251422	0.337ug/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	25996	0.033ug/ml	90
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.52	202	55713	0.062ug/ml	66
16) Pyrene	13.87	202	58567	0.067ug/ml m 7gm 1 7.16.15	
17) Benzo(a)anthracene	15.50	228	34617	0.047ug/ml	92
18) Chrysene	15.54	228	44641	0.057ug/ml	94
20) Benzo(b)fluoranthene	17.22	252	59370	0.064ug/ml	99
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	17.89	252	32552	0.037ug/ml	94
23) Indeno(1,2,3-c,d)pyrene	20.84	276	31185	0.040ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	21.71	276	39394	0.045ug/ml	59

(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 Pyrene

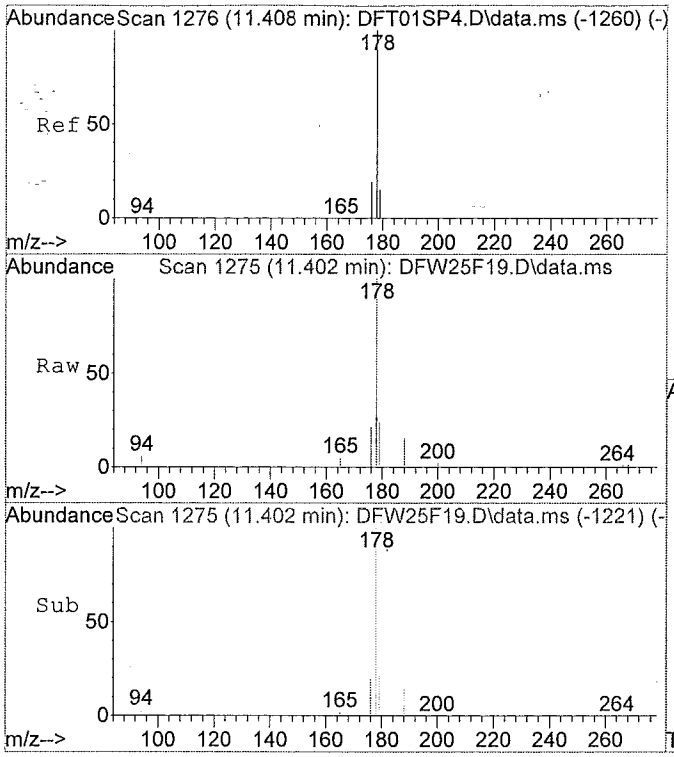


Compound# 16
Pyrene
Concen: 0.07 ug/ml m
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DFW25F19.D
Acq: 06/09/2015 01:50
Integration Scan Range
From
1740 (13.863 min)
To
1748 (13.900 min)
Peak Area 58567

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

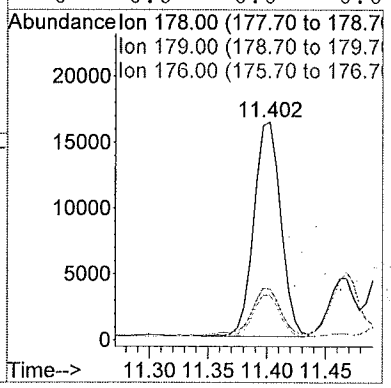
initials TJM *date* 7.16.15

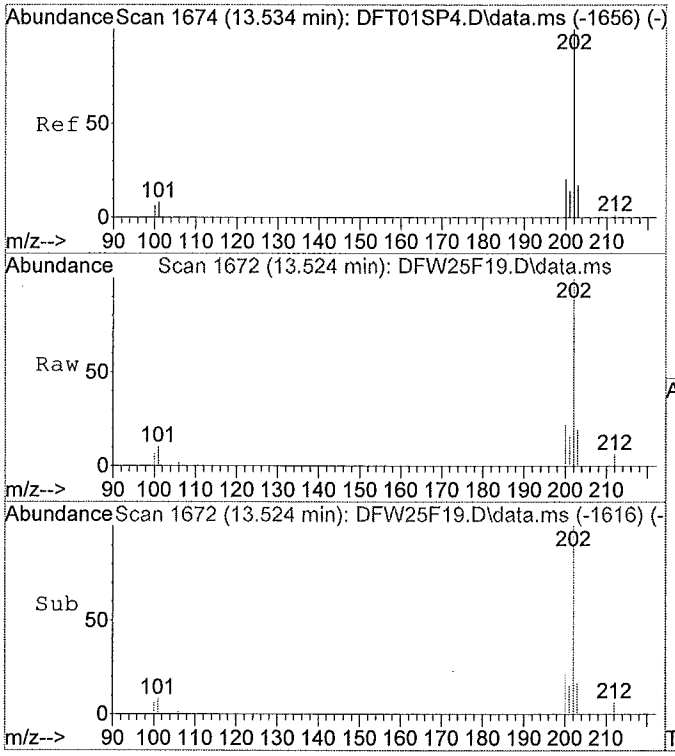


#11
Phenanthrene
Concen: 0.03 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFW25F19.D
Acq: 06/09/2015 01:50

Tgt Ion:178 Resp: 25996

Ion	Ratio	Lower	Upper
178	100		
179	23.6	11.1	20.5#
176	18.9	14.1	26.1
0	0.0	0.0	0.0

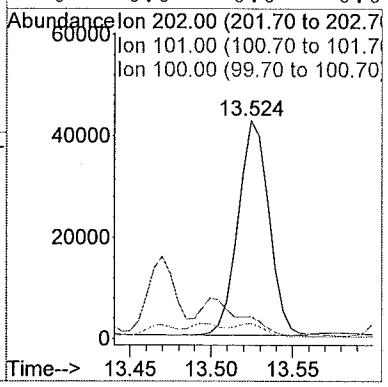


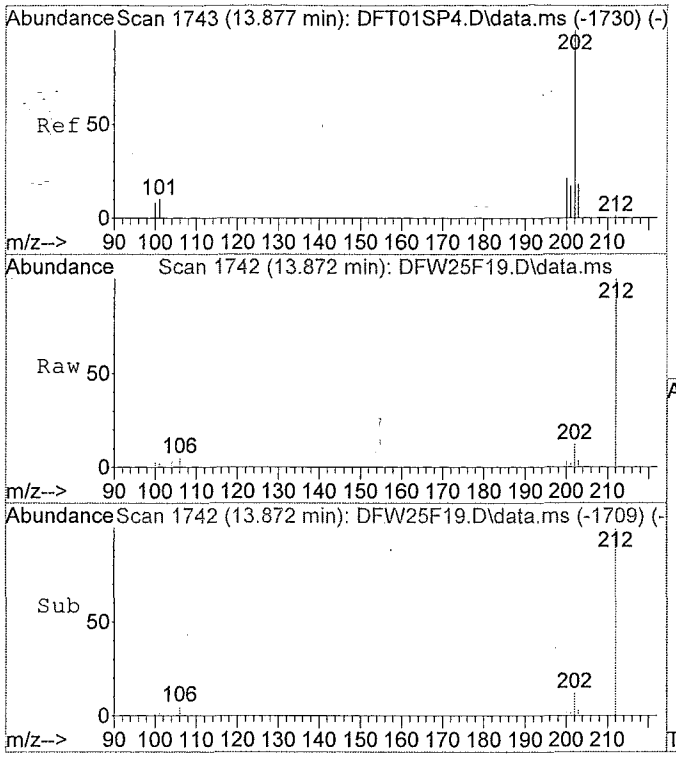


#14
Fluoranthene
Concen: 0.06 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DFW25F19.D
Acq: 06/09/2015 01:50

Tgt Ion:202 Resp: 55713

Ion	Ratio	Lower	Upper
202	100		
101	0.0	9.4	17.6#
100	6.2	0.0	0.0#
0	0.0	0.0	0.0

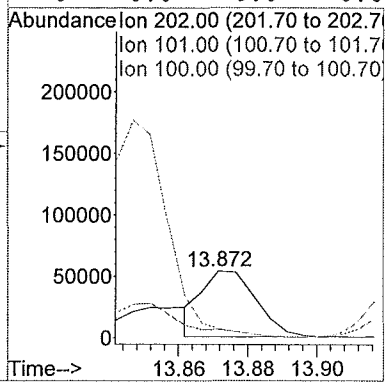


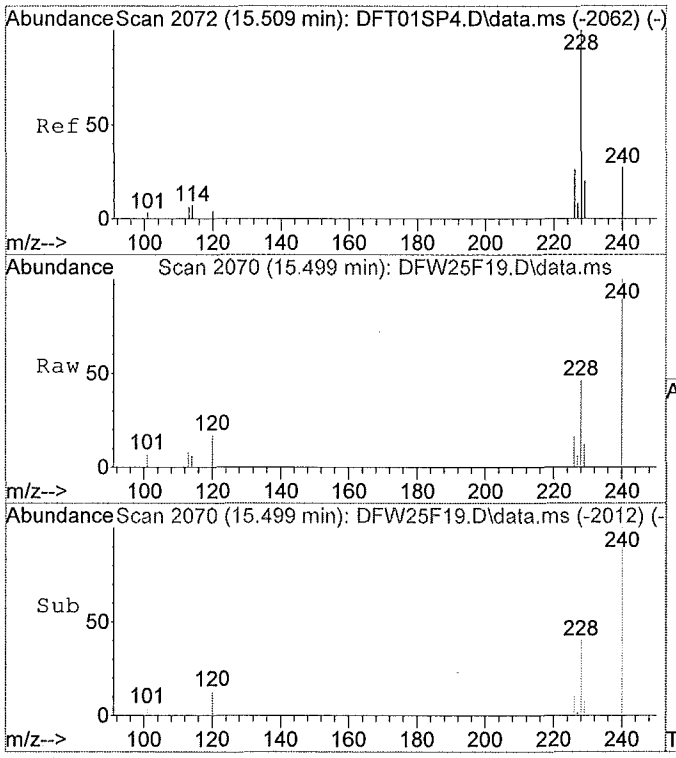


#16
Pyrene
Concen: 0.07 ug/ml m
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DFW25F19.D
Acq: 06/09/2015 01:50

Tgt Ion:202 Resp: 58567

Ion	Ratio	Lower	Upper
202	100		
101	90.7	10.6	19.6#
100	462.6	9.4	17.4#
0	0.0	0.0	0.0

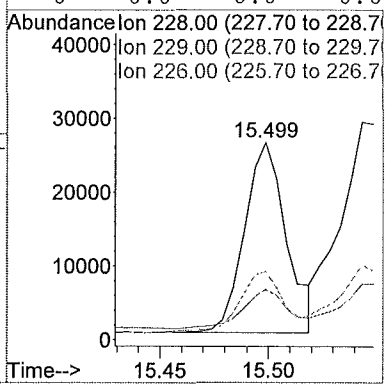


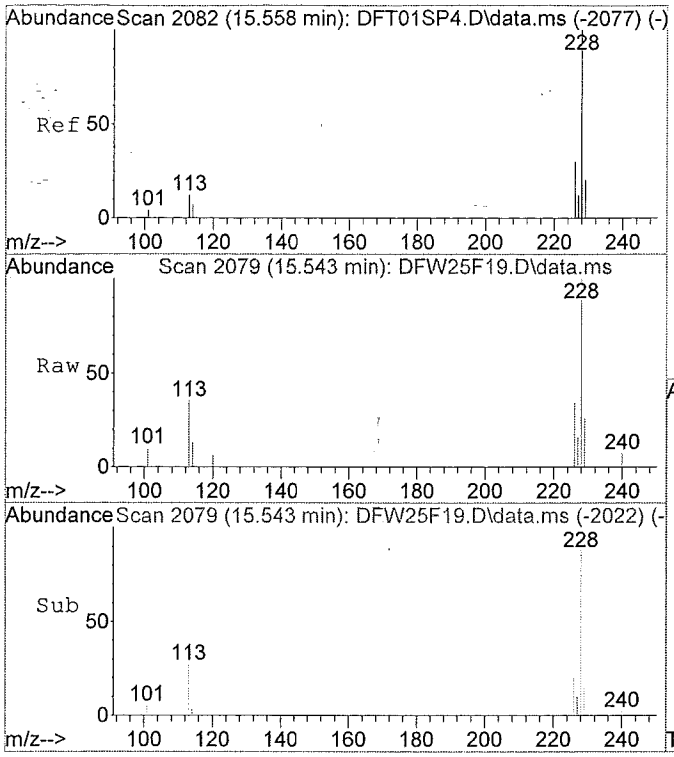


#17
Benzo(a)anthracene
Concen: 0.05 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFW25F19.D
Acq: 06/09/2015 01:50

Tgt Ion:228 Resp: 34617

Ion	Ratio	Lower	Upper
228	100		
229	21.8	14.5	26.9
226	32.5	18.5	34.3
0	0.0	0.0	0.0

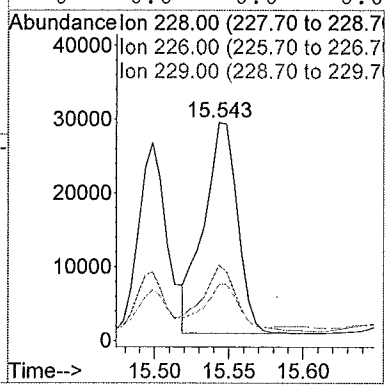


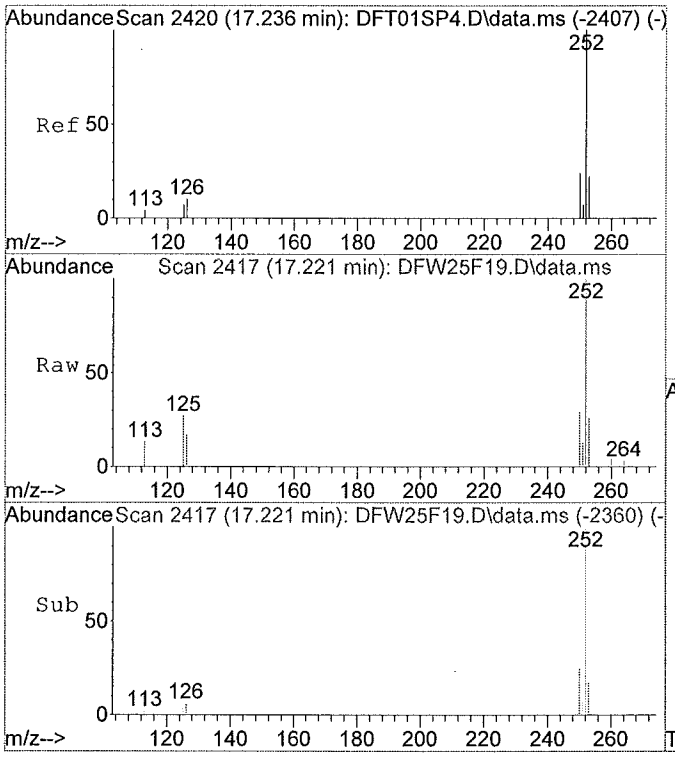


#18
Chrysene
Concen: 0.06 ug/ml
RT: 15.54 min Scan# 2079
Delta R.T. -0.01 min
Lab File: DFW25F19.D
Acq: 06/09/2015 01:50

Tgt Ion:228 Resp: 44641

Ion	Ratio	Lower	Upper
228	100		
226	33.2	19.7	36.7
229	20.0	14.5	26.9
0	0.0	0.0	0.0

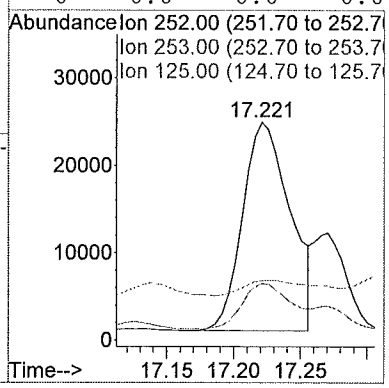


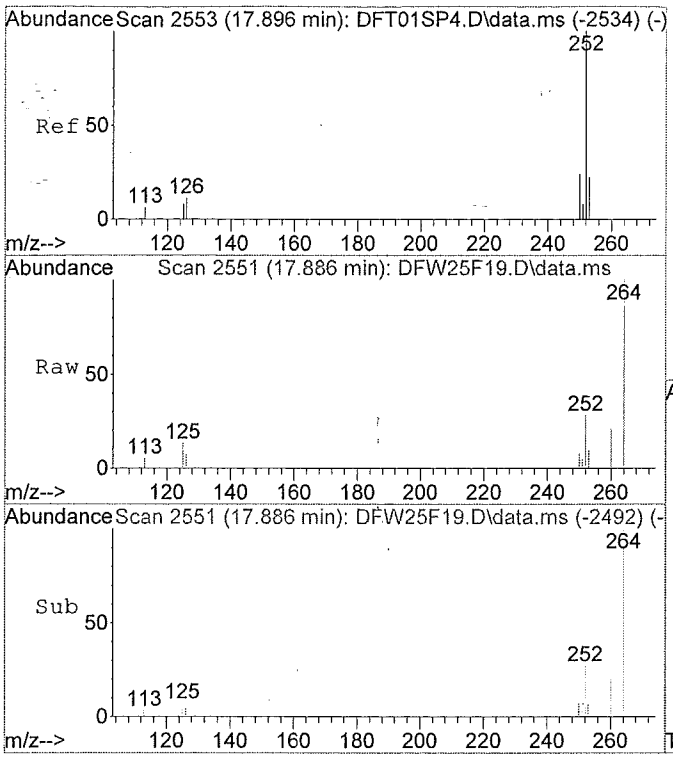


#20
Benzo(b)fluoranthene
Concen: 0.06 ug/ml
RT: 17.22 min Scan# 2417
Delta R.T. -0.01 min
Lab File: DFW25F19.D
Acq: 06/09/2015 01:50

Tgt Ion:252 Resp: 59370

Ion	Ratio	Lower	Upper
252	100		
253	22.5	15.3	28.3
125	16.9	0.0	0.0#
0	0.0	0.0	0.0

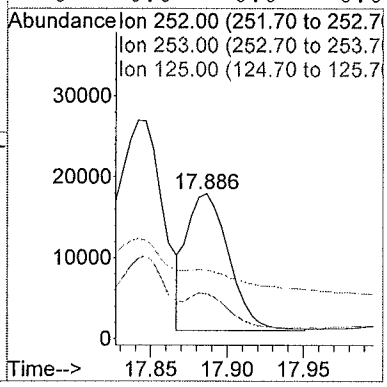


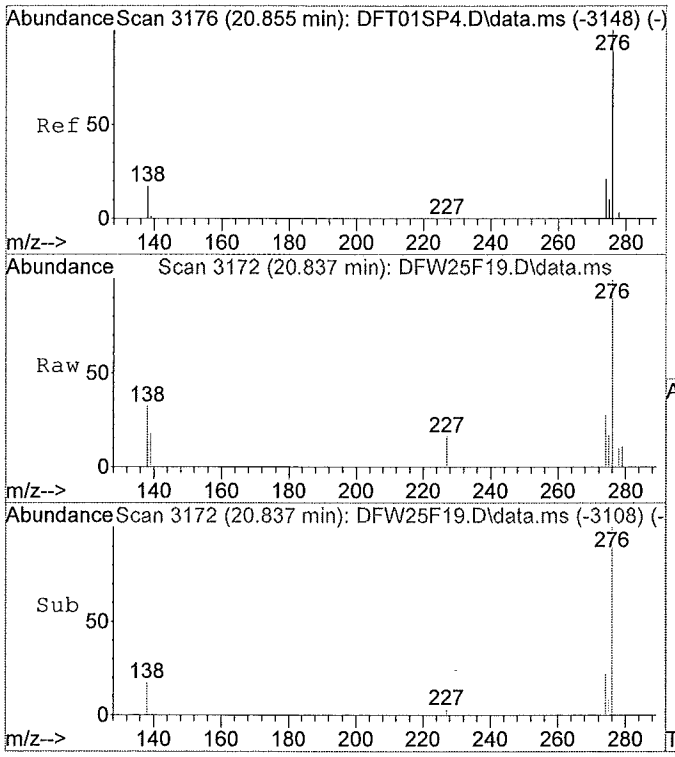


#22
Benzo(a)pyrene
Concen: 0.04 ug/ml
RT: 17.89 min Scan# 2551
Delta R.T. -0.00 min
Lab File: DFW25F19.D
Acq: 06/09/2015 01:50

Tgt Ion:252 Resp: 32552

Ion	Ratio	Lower	Upper
252	100		
253	24.2	15.0	27.8
125	0.0	0.0	0.0
0	0.0	0.0	0.0

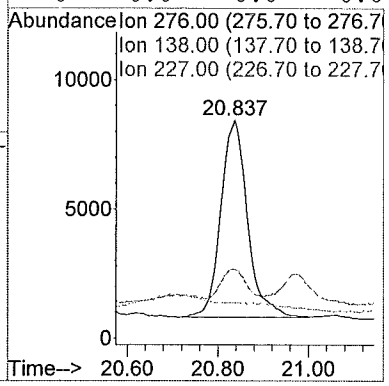


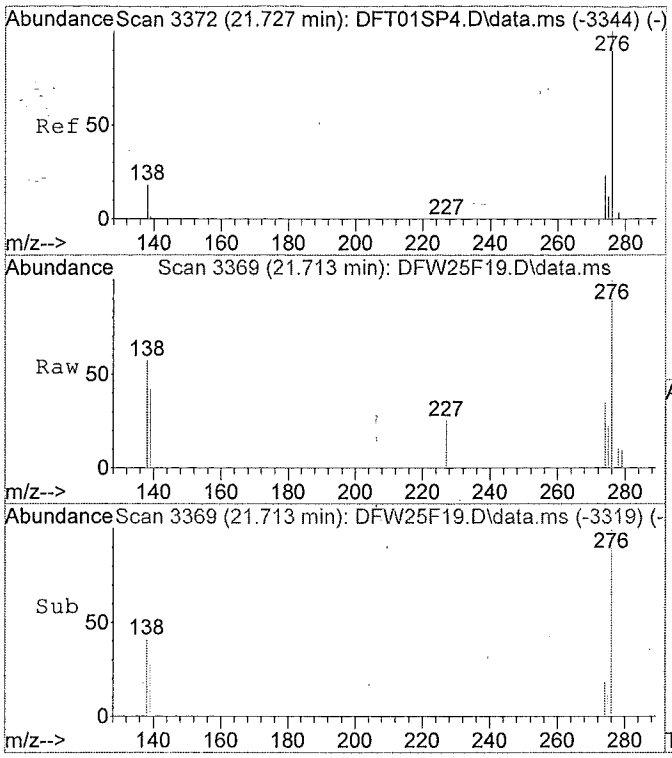


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.04 ug/ml
RT: 20.84 min Scan# 3172
Delta R.T. -0.01 min
Lab File: DFW25F19.D
Acq: 06/09/2015 01:50

Tgt Ion:276 Resp: 31185

Ion	Ratio	Lower	Upper
276	100		
138	13.1	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

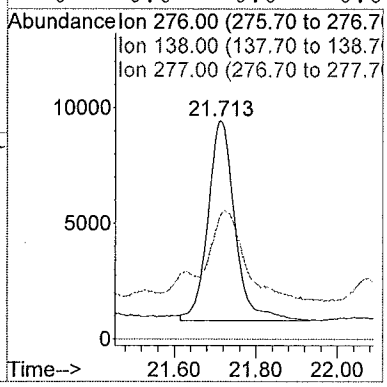




#25
Benzo(g,h,i)perylene
Concen: 0.05 ug/ml
RT: 21.71 min Scan# 3369
Delta R.T. -0.01 min
Lab File: DFW25F19.D
Acq: 06/09/2015 01:50

Tgt Ion:276 Resp: 39394

Ion	Ratio	Lower	Upper
276	100		
138	39.8	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:

F9L77

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293020

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFW26F20

Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/09/2015

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.7	U
91-57-6	2-Methylnaphthalene	3.7	U
208-96-8	Acenaphthylene	3.7	U
83-32-9	Acenaphthene	3.7	U
86-73-7	Fluorene	3.7	U
87-86-5	Pentachlorophenol	7.5	U
85-01-8	Phenanthrene	3.7	U
120-12-7	Anthracene	3.7	U
206-44-0	Fluoranthene	3.7	U
129-00-0	Pyrene	3.7	U
56-55-3	Benzo(a)anthracene	3.7	U
218-01-9	Chrysene	3.7	U
205-99-2	Benzo(b)fluoranthene	3.7	U
207-08-9	Benzo(k)fluoranthene	3.7	U
50-32-8	Benzo(a)pyrene	3.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.7	U
53-70-3	Dibenzo(a,h)anthracene	3.7	U
191-24-2	Benzo(g,h,i)perylene	3.7	U

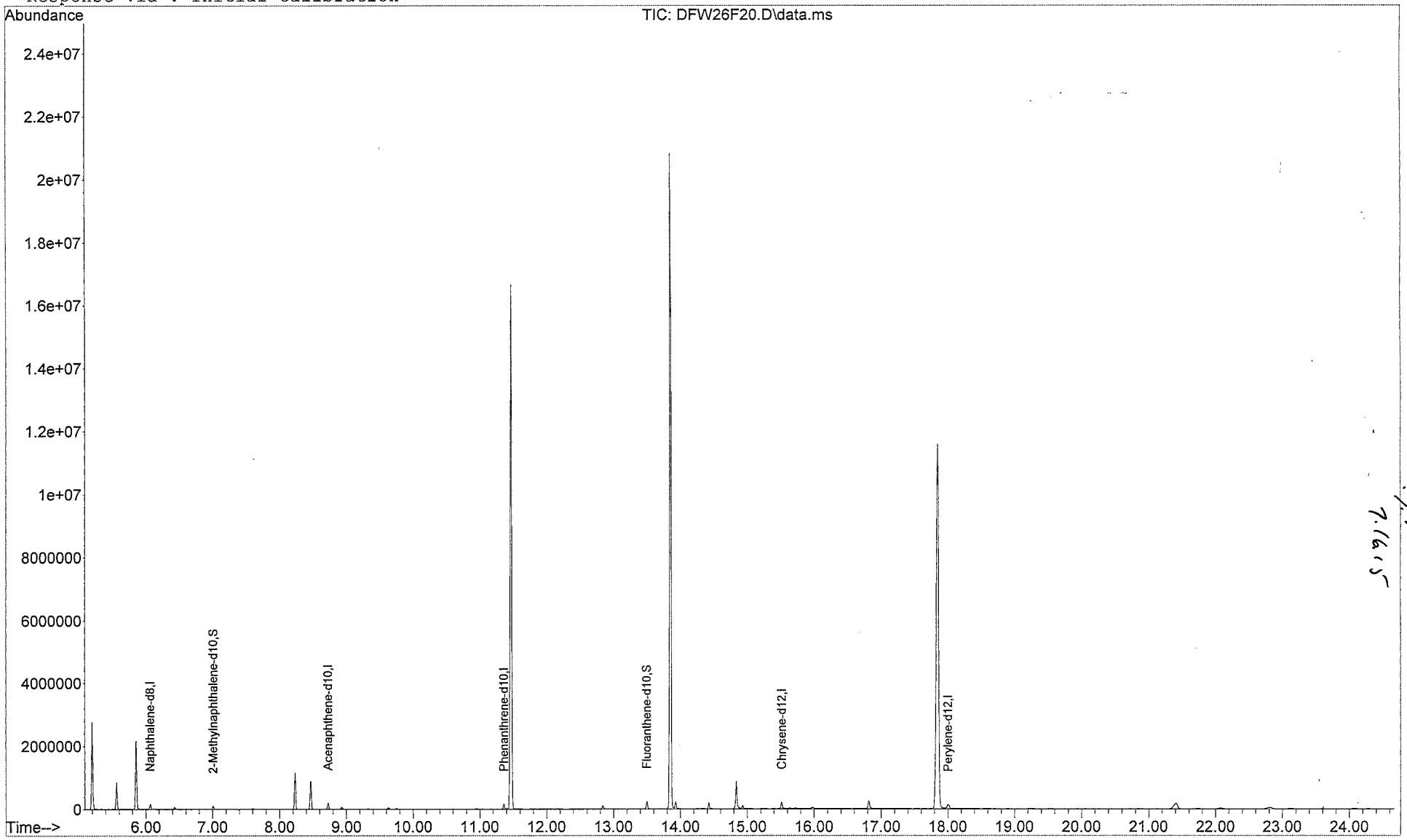
Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW26F20.D
Acq On : 06/09/2015 02:19
Sample : 1514293020 F9L77
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 21
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 15:09:43 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 Jul 15 14:52:03 2015
Response via : Initial Calibration



7.16.15

Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW26F20.D Vial: 21
Acq On : 06/09/2015 02:19 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 15:09:43 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 Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.06	136	187311	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	137367	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	223287	0.40 ug/ml
15) Chrysene-d12	15.51	240	230422	0.40 ug/ml
19) Perylene-d12	18.00	264	251094	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	115702	0.383ug/mL
13) Fluoranthene-d10	13.49	212	281180	0.460ug/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.

F9L78

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293021

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFW27F21

Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/09/2015

GPC Cleanup: (Y/N) Y pH: 6.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.8	U
91-57-6	2-Methylnaphthalene	3.8	U
208-96-8	Acenaphthylene	0.87	J
83-32-9	Acenaphthene	3.8	U
86-73-7	Fluorene	3.8	U
87-86-5	Pentachlorophenol	7.7	U
85-01-8	Phenanthrene	1.8	J
120-12-7	Anthracene	3.8	U
206-44-0	Fluoranthene	3.0	J
129-00-0	Pyrene	3.9	
56-55-3	Benzo(a)anthracene	2.7	J
218-01-9	Chrysene	3.5	J
205-99-2	Benzo(b)fluoranthene	3.8	J
207-08-9	Benzo(k)fluoranthene	1.1	J
50-32-8	Benzo(a)pyrene	2.1	J
193-39-5	Indeno(1,2,3-cd)pyrene	2.5	J
53-70-3	Dibenzo(a,h)anthracene	3.8	U
191-24-2	Benzo(g,h,i)perylene	1.8	J

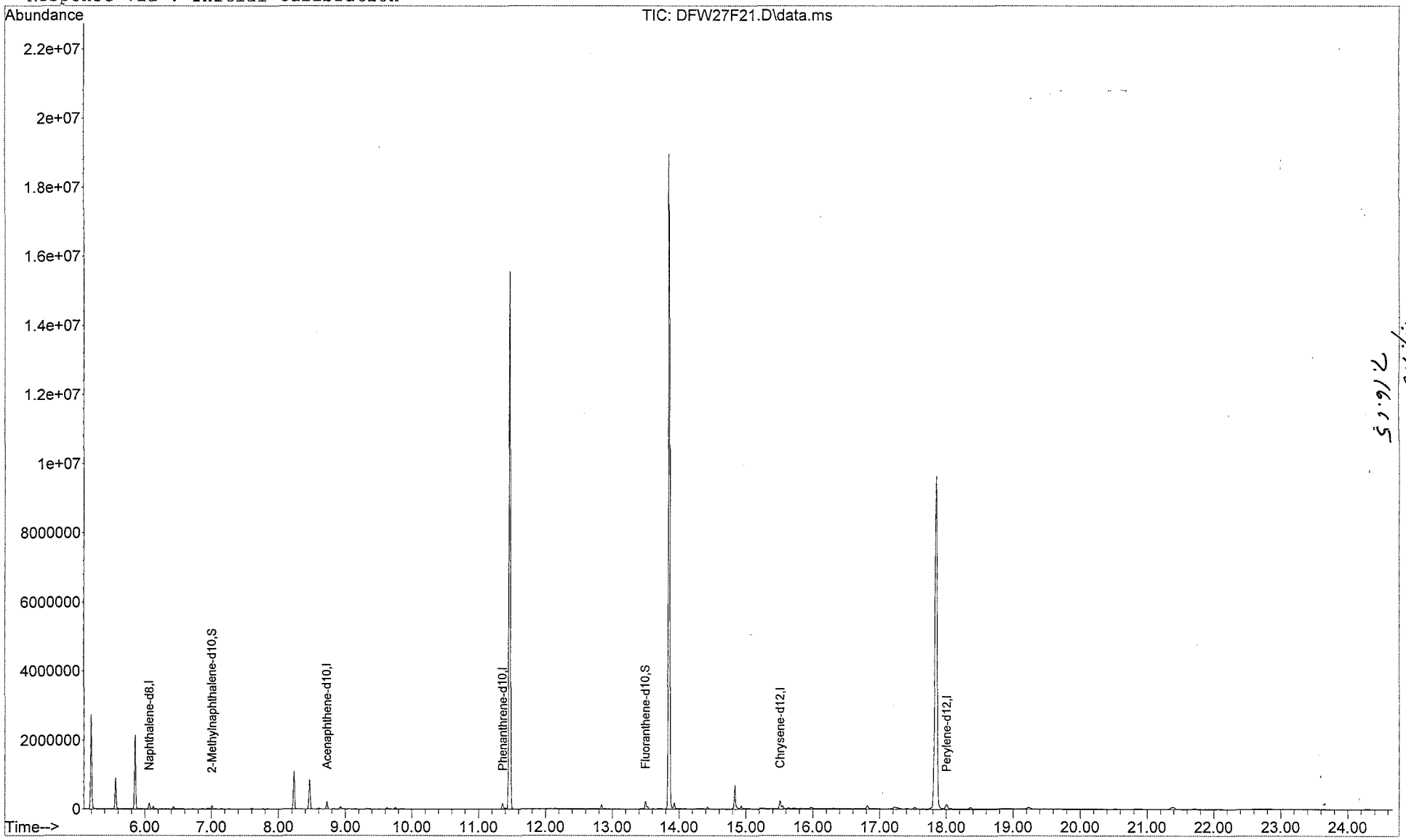
Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW27F21.D
Acq On : 06/09/2015 02:49
Sample : 1514293021 F9L78
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 22
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 15:07:25 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 Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

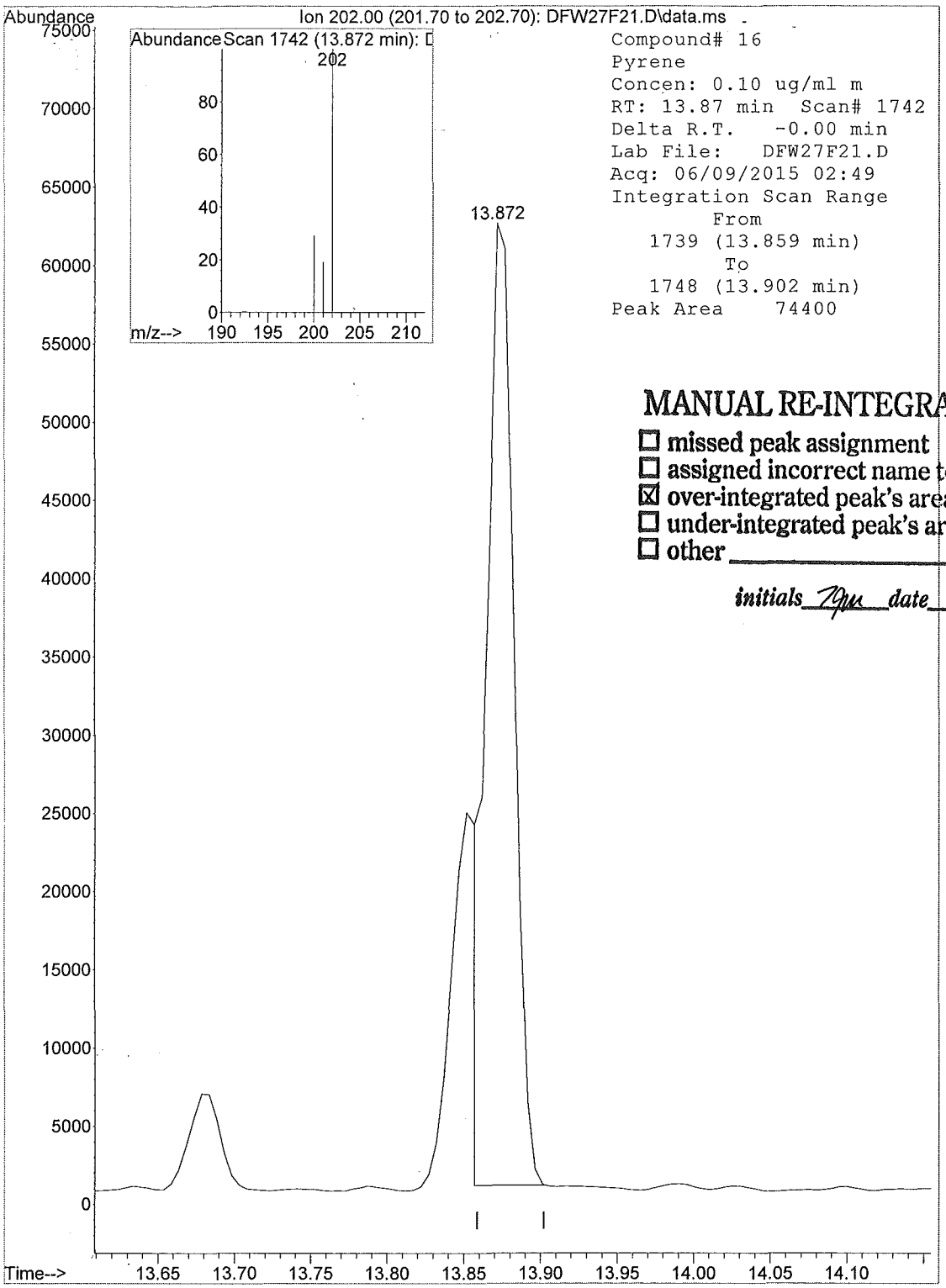
Data File : R:\D\2015\JUN15\08JUN15\DFW27F21.D Vial: 22
Acq On : 06/09/2015 02:49 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 15:07:25 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.06	136	195645	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	140589	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	235774	0.40 ug/ml	
15) Chrysene-d12	15.51	240	235801	0.40 ug/ml	
19) Perylene-d12	18.00	264	256400	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	116241	0.368ug/mL	
13) Fluoranthene-d10	13.49	212	250193	0.388ug/mL	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	8.49	152	13921	0.023ug/ml	68
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	32053	0.047ug/ml	94
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.52	202	59478	0.077ug/ml	66
16) Pyrene	13.87	202	74400	0.101ug/ml m	1 7.16.15
17) Benzo(a)anthracene	15.50	228	43925	0.070ug/ml	93
18) Chrysene	15.55	228	61052	0.092ug/ml	96
20) Benzo(b)fluoranthene	17.22	252	79067	0.099ug/ml	99
21) Benzo(k)fluoranthene	17.27	252	24599	0.030ug/ml m	98 7.16.15
22) Benzo(a)pyrene	17.89	252	41138	0.054ug/ml	96
23) Indeno(1,2,3-c,d)pyrene	20.83	276	42656	0.064ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	21.71	276	34921	0.046ug/ml	74

(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 Pyrene



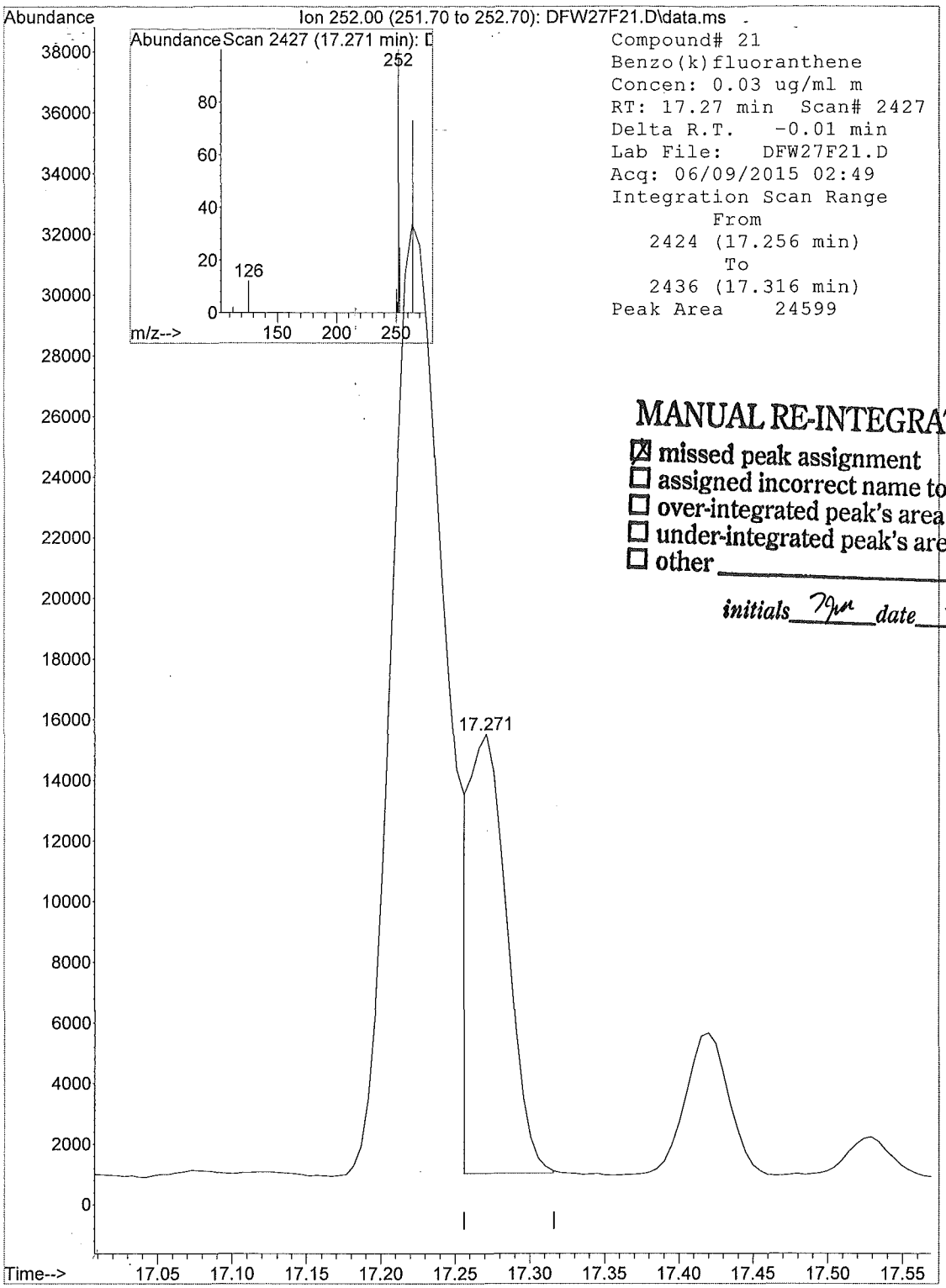
Compound# 16
Pyrene
Concen: 0.10 ug/ml m
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DFW27F21.D
Acq: 06/09/2015 02:49
Integration Scan Range
From
1739 (13.859 min)
To
1748 (13.902 min)
Peak Area 74400

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials TJM *date* 7.16.15

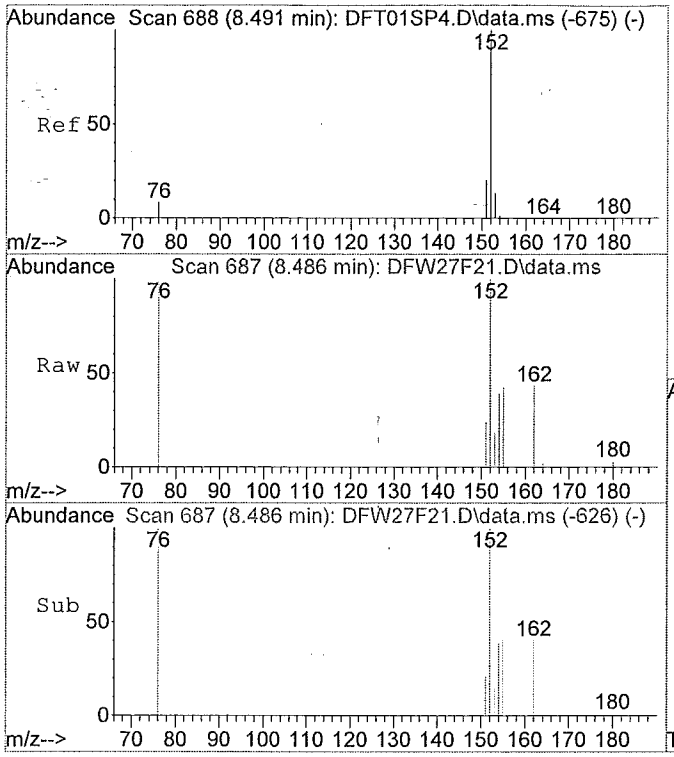
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- [x] missed peak assignment
- [ ] assigned incorrect name to peak
- [ ] over-integrated peak's area
- [ ] under-integrated peak's area
- [ ] other _____

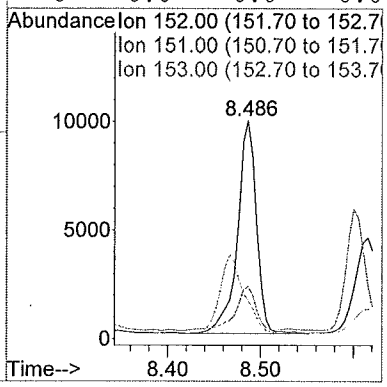
initials JM *date* 7.16.15

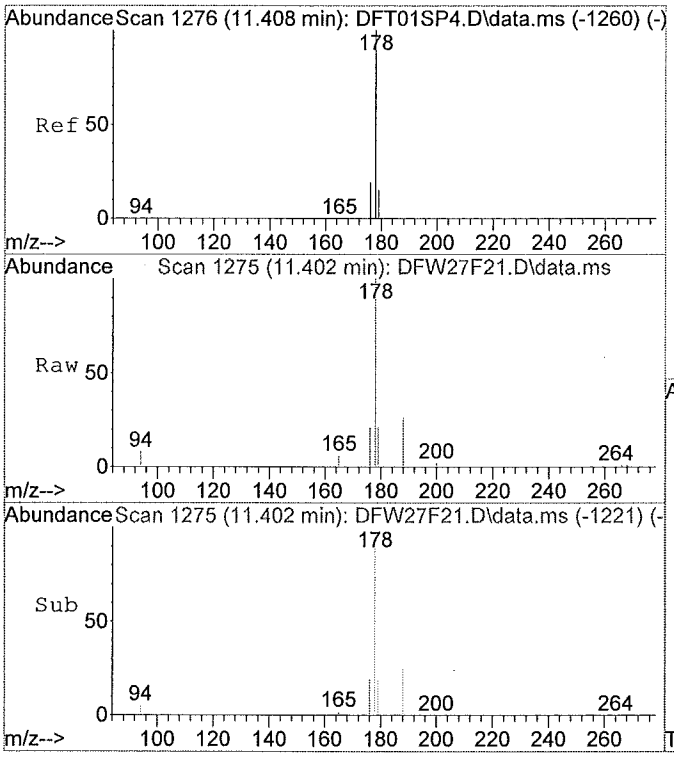


#6
Acenaphthylene
Concen: 0.02 ug/ml
RT: 8.49 min Scan# 687
Delta R.T. 0.00 min
Lab File: DFW27F21.D
Acq: 06/09/2015 02:49

Tgt Ion:152 Resp: 13921

Ion	Ratio	Lower	Upper
152	100		
151	22.5	15.5	28.7
153	47.3	8.8	16.4#
0	0.0	0.0	0.0

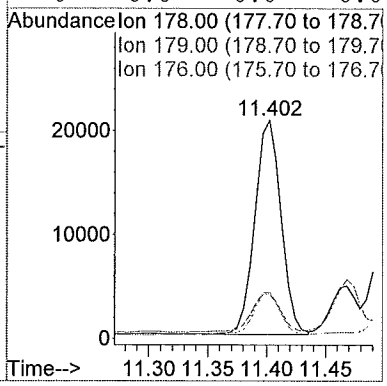


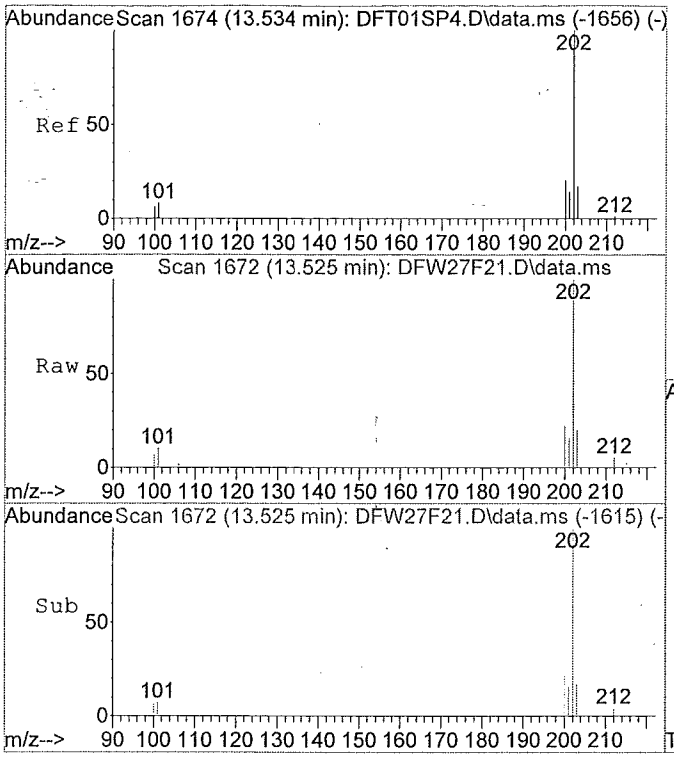


#11
Phenanthrene
Concen: 0.05 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFW27F21.D
Acq: 06/09/2015 02:49

Tgt Ion:178 Resp: 32053

Ion	Ratio	Lower	Upper
178	100		
179	20.5	11.1	20.5
176	21.3	14.1	26.1
0	0.0	0.0	0.0

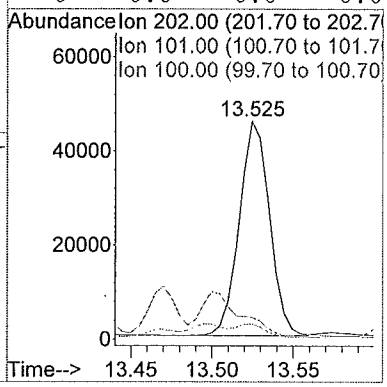


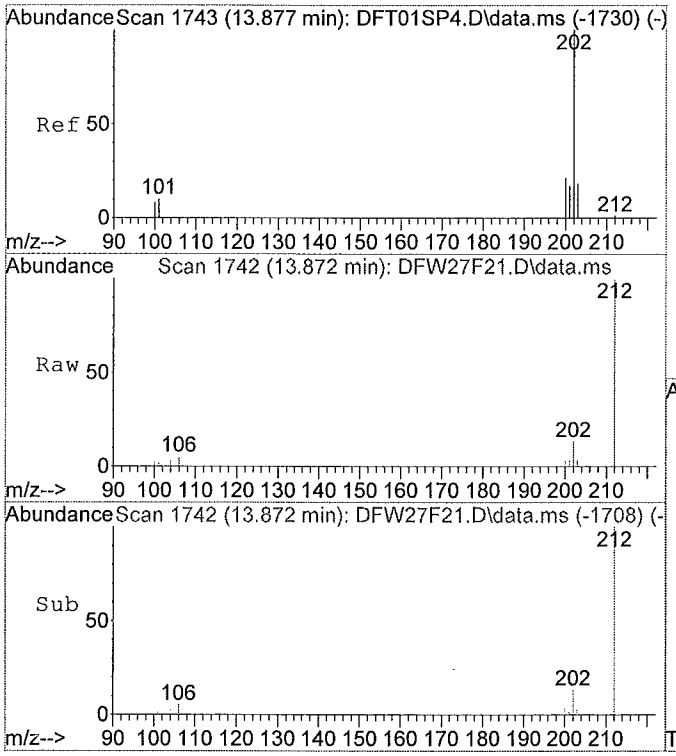


#14
Fluoranthene
Concen: 0.08 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DFW27F21.D
Acq: 06/09/2015 02:49

Tgt Ion:202 Resp: 59478

Ion	Ratio	Lower	Upper
202	100		
101	0.0	9.4	17.6#
100	6.3	0.0	0.0#
0	0.0	0.0	0.0

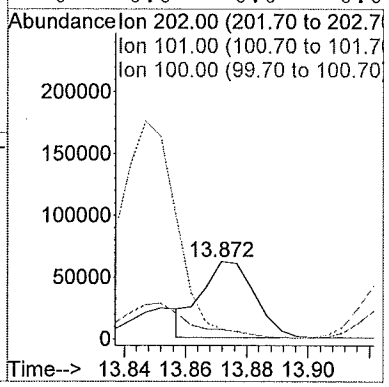


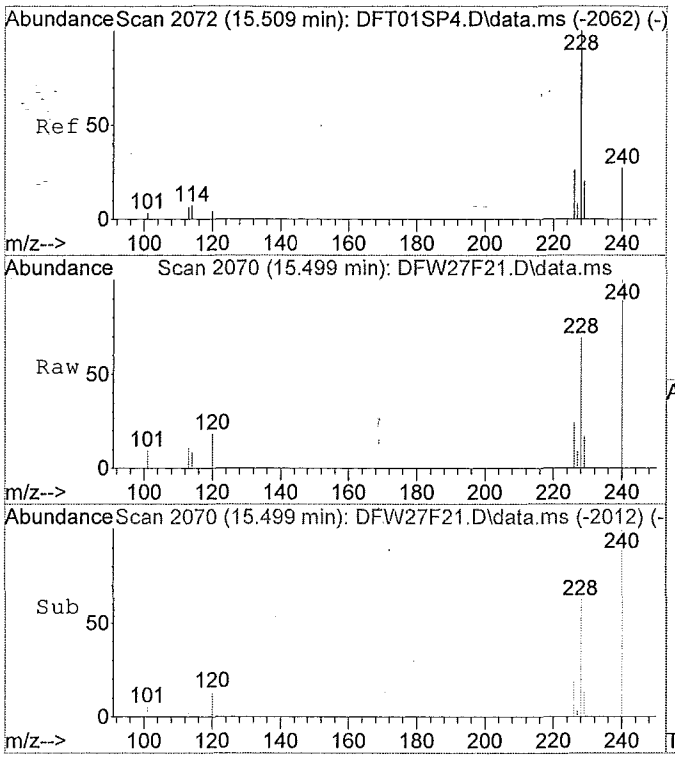


#16
Pyrene
Concen: 0.10 ug/ml m
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DFW27F21.D
Acq: 06/09/2015 02:49

Tgt Ion:202 Resp: 74400

Ion	Ratio	Lower	Upper
202	100		
101	72.9	10.6	19.6#
100	365.2	9.4	17.4#
0	0.0	0.0	0.0

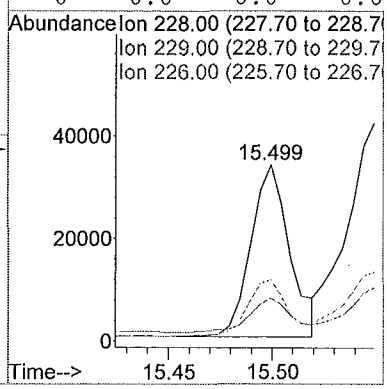


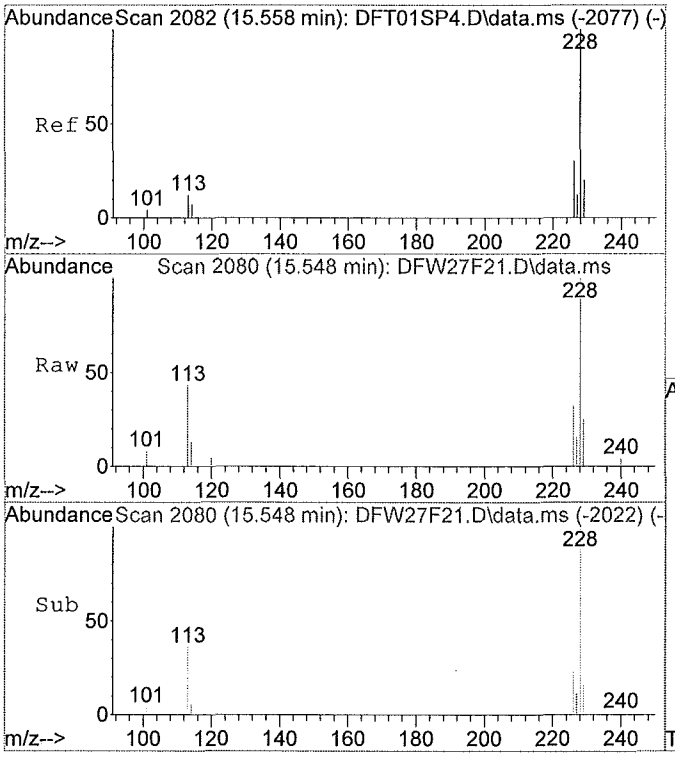


#17
Benzo(a)anthracene
Concen: 0.07 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFW27F21.D
Acq: 06/09/2015 02:49

Tgt Ion:228 Resp: 43925

Ion	Ratio	Lower	Upper
228	100		
229	21.1	14.5	26.9
226	32.7	18.5	34.3
0	0.0	0.0	0.0

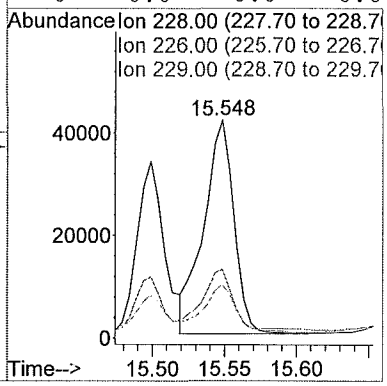


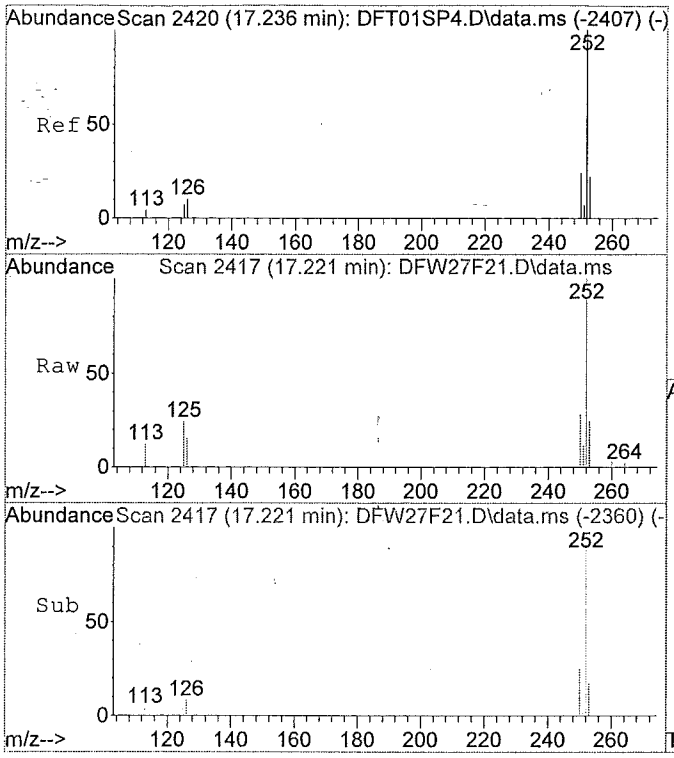


#18
Chrysene
Concen: 0.09 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFW27F21.D
Acq: 06/09/2015 02:49

Tgt Ion:228 Resp: 61052

Ion	Ratio	Lower	Upper
228	100		
226	30.9	19.7	36.7
229	22.0	14.5	26.9
0	0.0	0.0	0.0

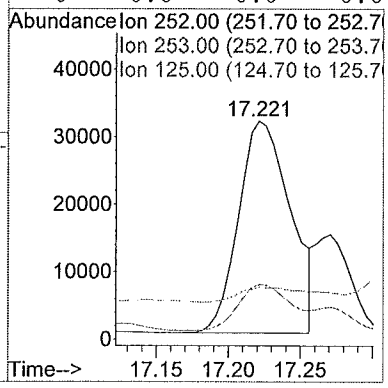


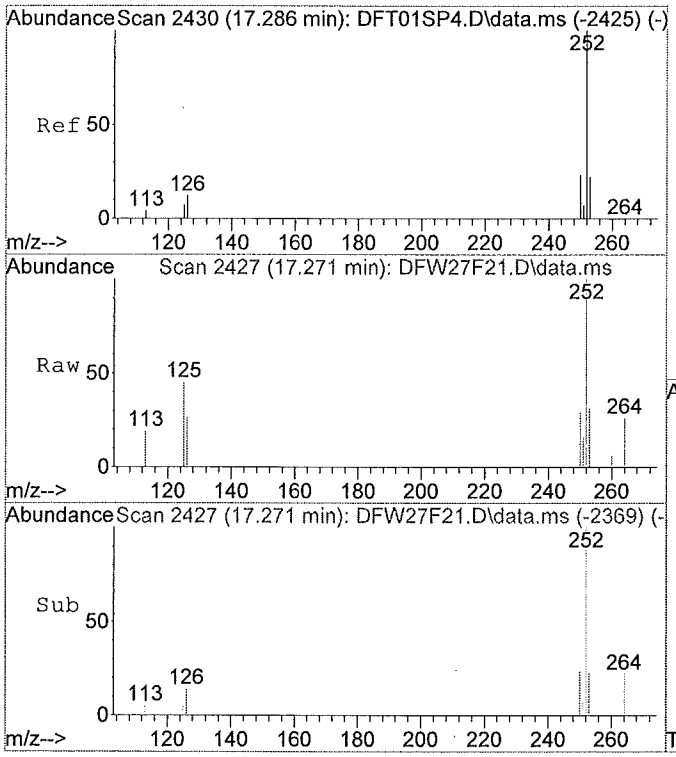


#20
Benzo(b)fluoranthene
Concen: 0.10 ug/ml
RT: 17.22 min Scan# 2417
Delta R.T. -0.01 min
Lab File: DFW27F21.D
Acq: 06/09/2015 02:49

Tgt Ion:252 Resp: 79067

Ion	Ratio	Lower	Upper
252	100		
253	22.2	15.3	28.3
125	12.0	0.0	0.0#
0	0.0	0.0	0.0

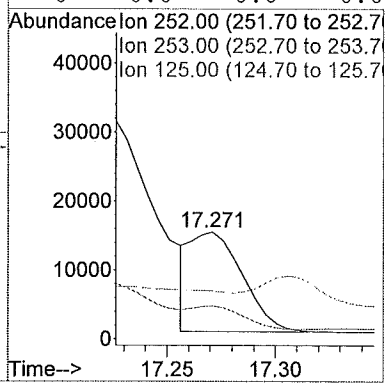


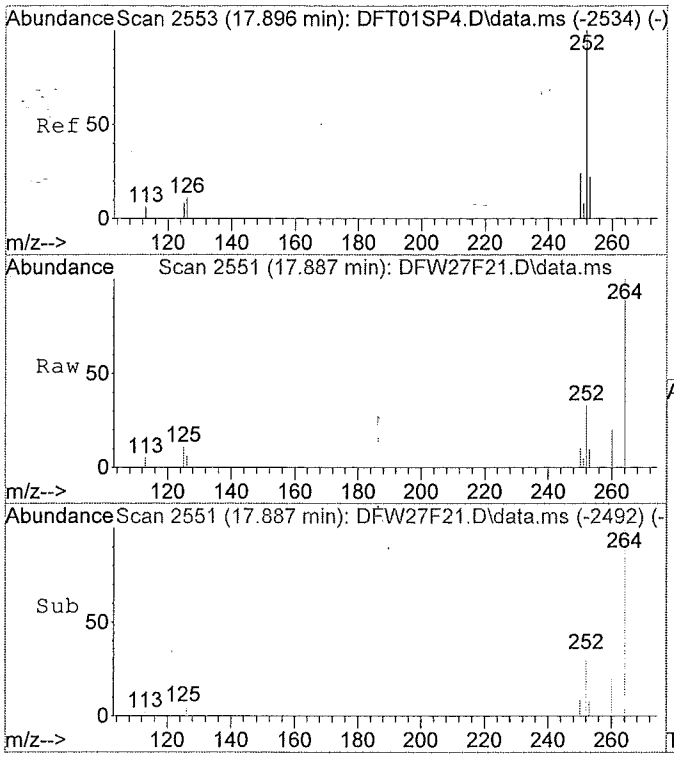


#21
Benzo(k)fluoranthene
Concen: 0.03 ug/ml m
RT: 17.27 min Scan# 2427
Delta R.T. -0.01 min
Lab File: DFW27F21.D
Acq: 06/09/2015 02:49

Tgt Ion:252 Resp: 24599

Ion	Ratio	Lower	Upper
252	100		
253	71.4	15.0	27.8#
125	34.0	0.0	0.0#
0	0.0	0.0	0.0

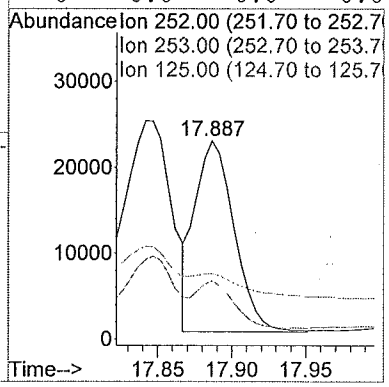


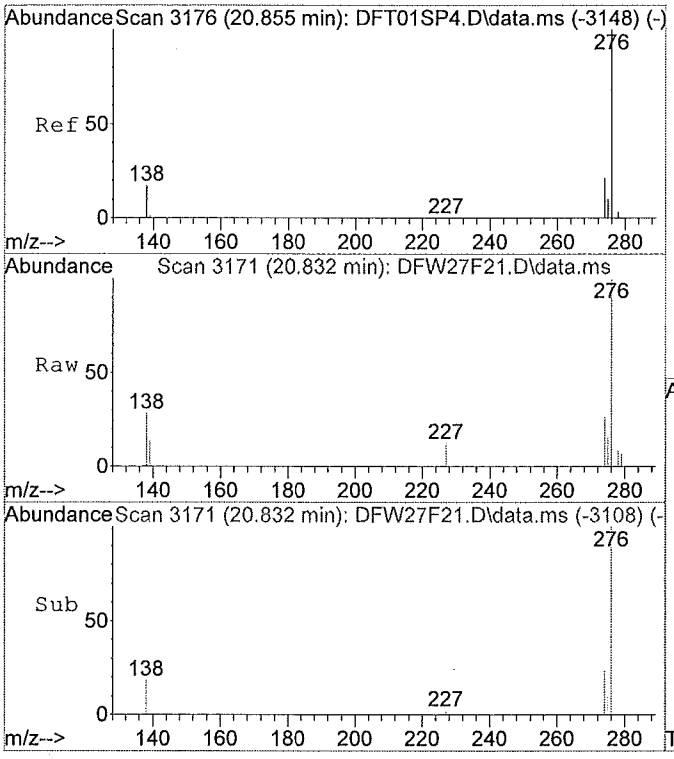


#22
Benzo(a)pyrene
Concen: 0.05 ug/ml
RT: 17.89 min Scan# 2551
Delta R.T. -0.00 min
Lab File: DFW27F21.D
Acq: 06/09/2015 02:49

Tgt Ion:252 Resp: 41138

Ion	Ratio	Lower	Upper
252	100		
253	23.5	15.0	27.8
125	0.0	0.0	0.0
0	0.0	0.0	0.0

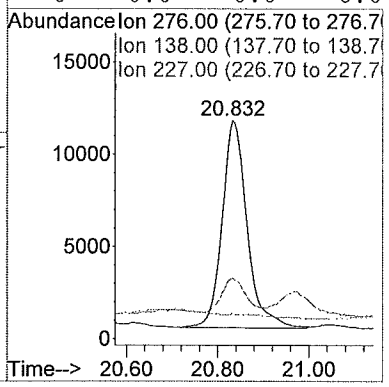


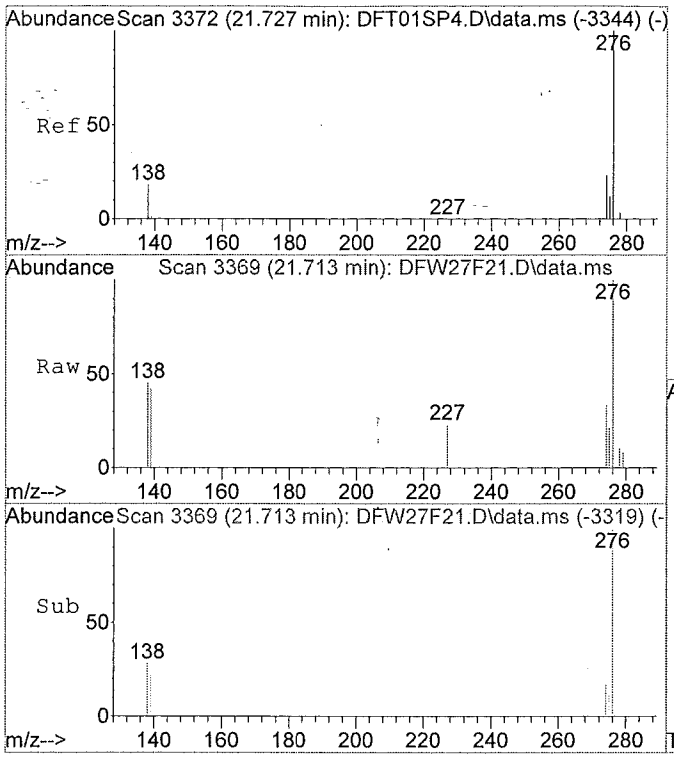


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.06 ug/ml
RT: 20.83 min Scan# 3171
Delta R.T. -0.02 min
Lab File: DFW27F21.D
Acq: 06/09/2015 02:49

Tgt Ion:276 Resp: 42656

Ion	Ratio	Lower	Upper
276	100		
138	15.3	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

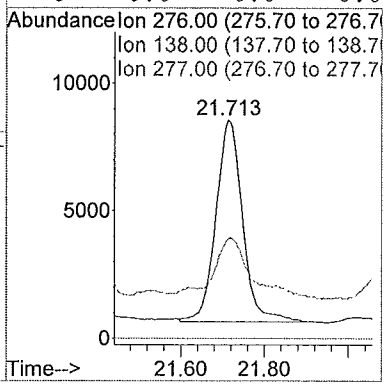




#25
Benzo(g,h,i)perylene
Concen: 0.05 ug/ml
RT: 21.71 min Scan# 3369
Delta R.T. -0.01 min
Lab File: DFW27F21.D
Acq: 06/09/2015 02:49

Tgt Ion:276 Resp: 34921

Ion	Ratio	Lower	Upper
276	100		
138	25.0	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.

F9L79

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293022

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DFW28F22

Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/09/2015

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.7	U
91-57-6	2-Methylnaphthalene	3.7	U
208-96-8	Acenaphthylene	3.7	U
83-32-9	Acenaphthene	3.7	U
86-73-7	Fluorene	3.7	U
87-86-5	Pentachlorophenol	7.6	U
85-01-8	Phenanthrene	3.7	U
120-12-7	Anthracene	3.7	U
206-44-0	Fluoranthene	3.7	U
129-00-0	Pyrene	3.7	U
56-55-3	Benzo(a)anthracene	3.7	U
218-01-9	Chrysene	0.78	J
205-99-2	Benzo(b)fluoranthene	3.7	U
207-08-9	Benzo(k)fluoranthene	3.7	U
50-32-8	Benzo(a)pyrene	3.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.7	U
53-70-3	Dibenzo(a,h)anthracene	3.7	U
191-24-2	Benzo(g,h,i)perylene	3.7	U

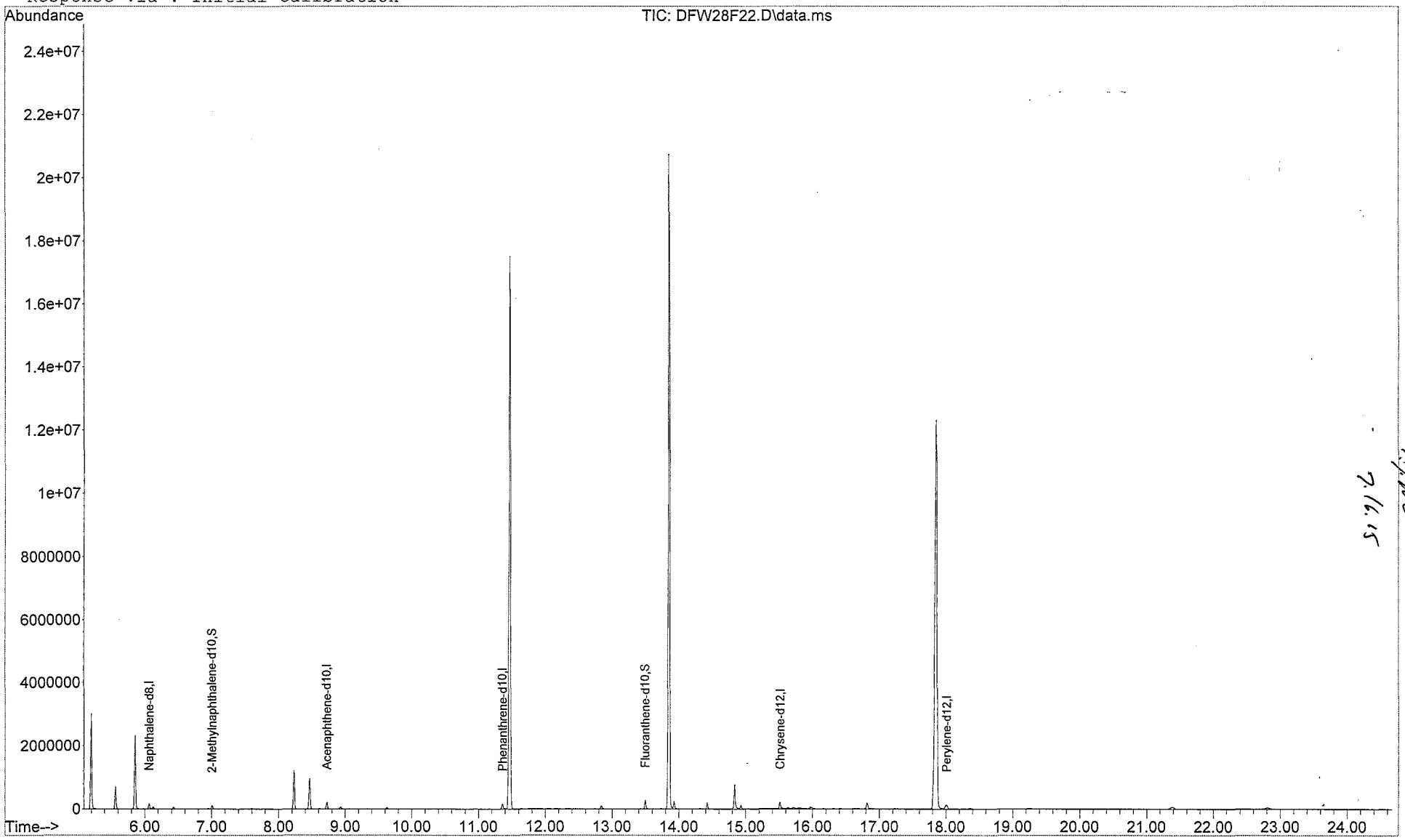
Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW28F22.D
Acq On : 06/09/2015 03:18
Sample : 1514293022 F9L79
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 23
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 15:08:17 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 Jul 15 14:52:03 2015
Response via : Initial Calibration



7/16/15

Quantitation Report

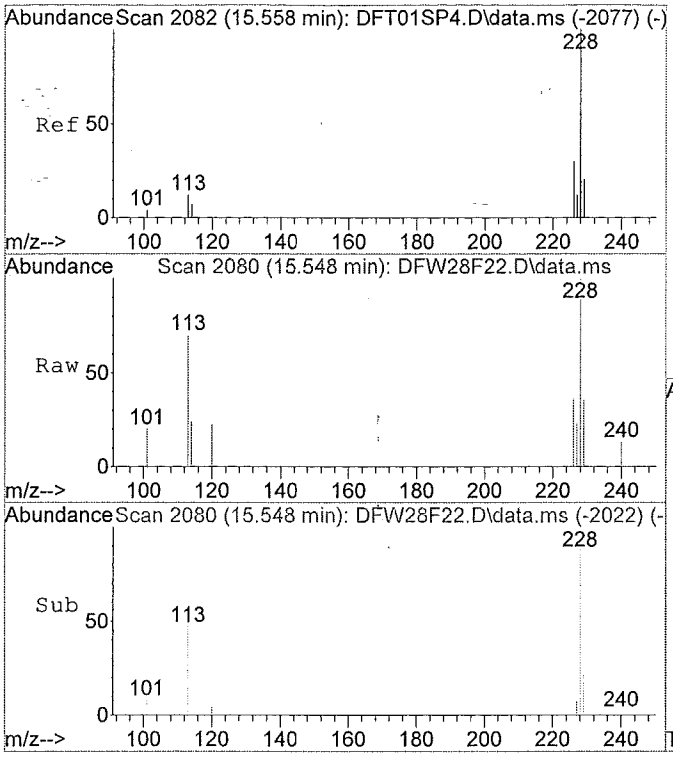
Data File : R:\D\2015\JUN15\08JUN15\DFW28F22.D Vial: 23
Acq On : 06/09/2015 03:18 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 15:08:17 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.06	136	185085	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	136512	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	221683	0.40 ug/ml
15) Chrysene-d12	15.51	240	227133	0.40 ug/ml
19) Perylene-d12	18.01	264	249901	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.00	152	123563	0.414ug/mL
13) Fluoranthene-d10	13.49	212	287244	0.474ug/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	15.55	228	13282	0.021ug/ml	93
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	

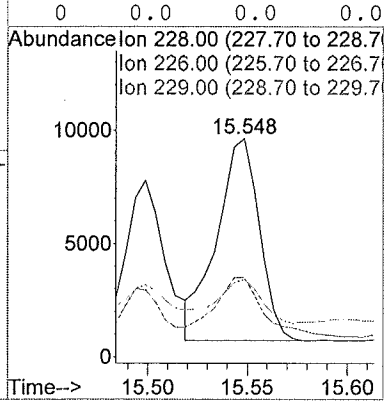
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#18
Chrysene
Concen: 0.02 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFW28F22.D
Acq: 06/09/2015 03:18

Tgt Ion:228 Resp: 13282

Ion	Ratio	Lower	Upper
228	100		
226	34.0	19.7	36.7
229	21.2	14.5	26.9
0	0.0	0.0	0.0



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.: F9L58

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

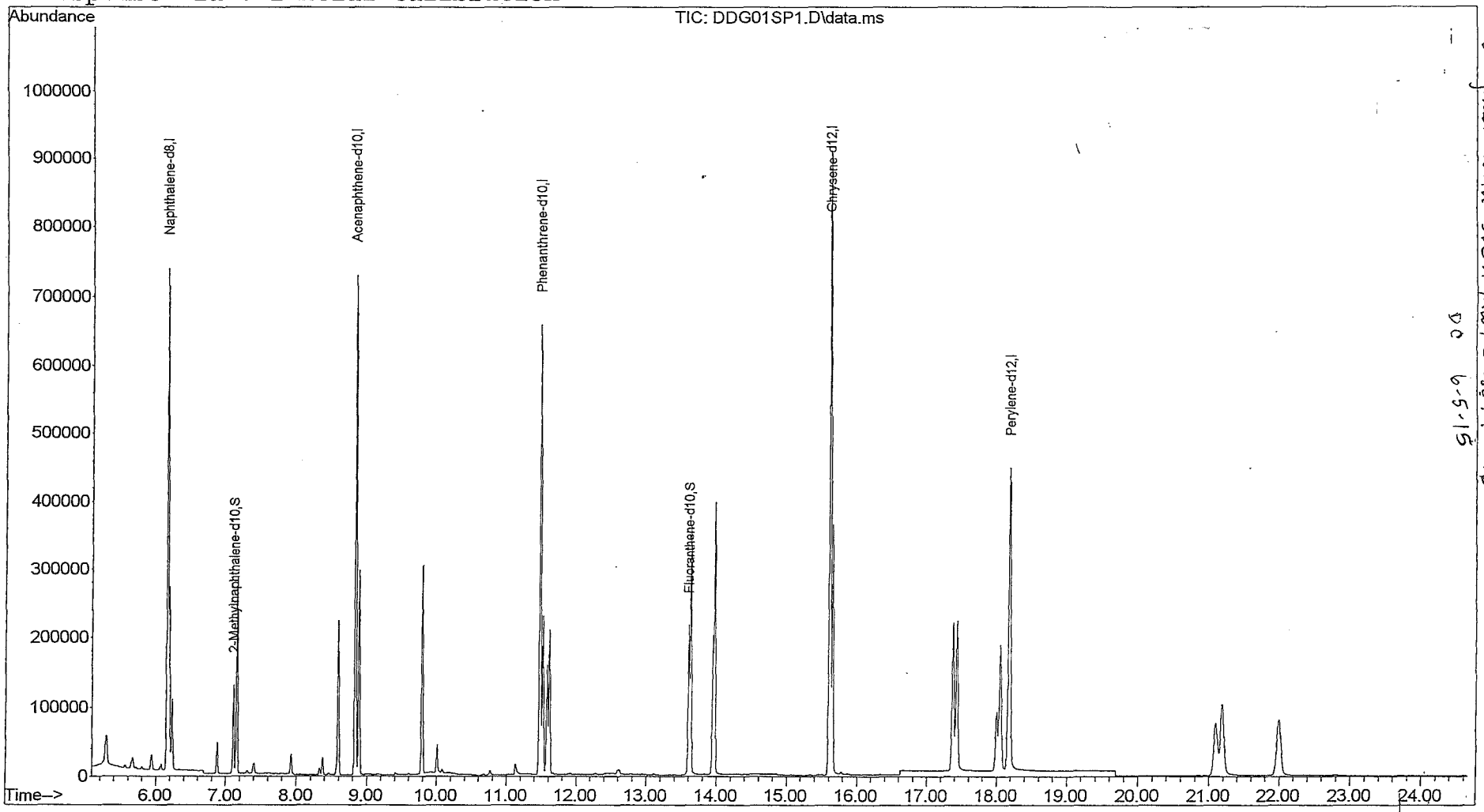
COMPOUND	RRF 0.1	RRF 0.2	RRF 0.4	RRF 0.8	RRF 1.0	$\overline{RRF}$	%RSD
Naphthalene	1.070	1.060	1.047	1.004	1.034	1.043	2.5
2-Methylnaphthalene	0.678	0.680	0.672	0.652	0.676	0.672	1.7
Acenaphthylene	1.712	1.721	1.747	1.737	1.836	1.750	2.8
Acenaphthene	1.121	1.125	1.118	1.093	1.144	1.120	1.6
Fluorene	1.280	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

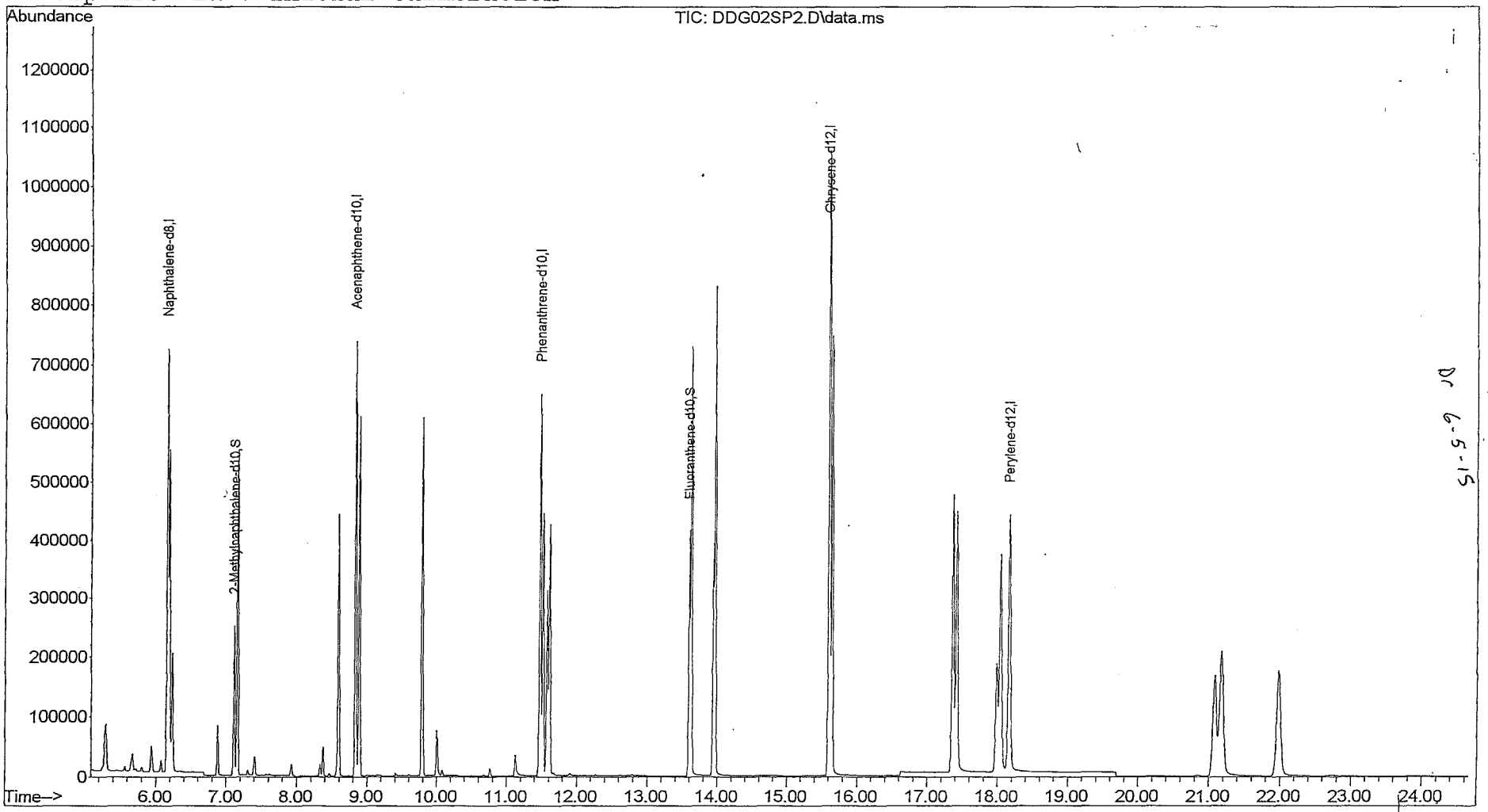
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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



DJ 6-5-15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG02SP2.D Vial: 2
Acq On : 03/25/2015 09:55 Operator: DJC
Sample : SSTD0.2DG 27492 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Mar 25 10:22:59 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.16	136	829500	0.40 ug/ml	
5) Acenaphthene-d10	8.83	164	499450	0.40 ug/ml	
9) Phenanthrene-d10	11.47	188	862919	0.40 ug/ml	
15) Chrysene-d12	15.61	240	943009	0.40 ug/ml	
19) Perylene-d12	18.16	264	803959	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.11	152	271205	0.200ug/mL	
13) Fluoranthene-d10	13.60	212	465423	0.198ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.19	128	439776	0.199ug/ml	93
4) 2-Methylnaphthalene	7.16	142	282058	0.200ug/ml	97
6) Acenaphthylene	8.59	152	429820	0.201ug/ml	96
7) Acenaphthene	8.89	153	281062	0.200ug/ml	98
8) Fluorene	9.79	166	323083	0.201ug/ml	98
10) Pentachlorophenol	11.12	266	24051	0.200ug/ml	100
11) Phenanthrene	11.52	178	498239	0.202ug/ml	97
12) Anthracene	11.61	178	474196	0.204ug/ml	96
14) Fluoranthene	13.62	202	552655	0.199ug/ml	91
16) Pyrene	13.97	202	584822	0.197ug/ml	92
17) Benzo(a)anthracene	15.59	228	500525	0.199ug/ml	99
18) Chrysene	15.64	228	535322	0.201ug/ml	99
20) Benzo(b)fluoranthene	17.36	252	496663	0.202ug/ml	100
21) Benzo(k)fluoranthene	17.41	252	513953	0.204ug/ml	100
22) Benzo(a)pyrene	18.04	252	468152	0.205ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	21.09	276	411348	0.205ug/ml	100
24) Dibenzo(a,h)anthracene	21.17	278	443264	0.202ug/ml	98
25) Benzo(g,h,i)perylene	21.98	276	465413	0.203ug/ml	72

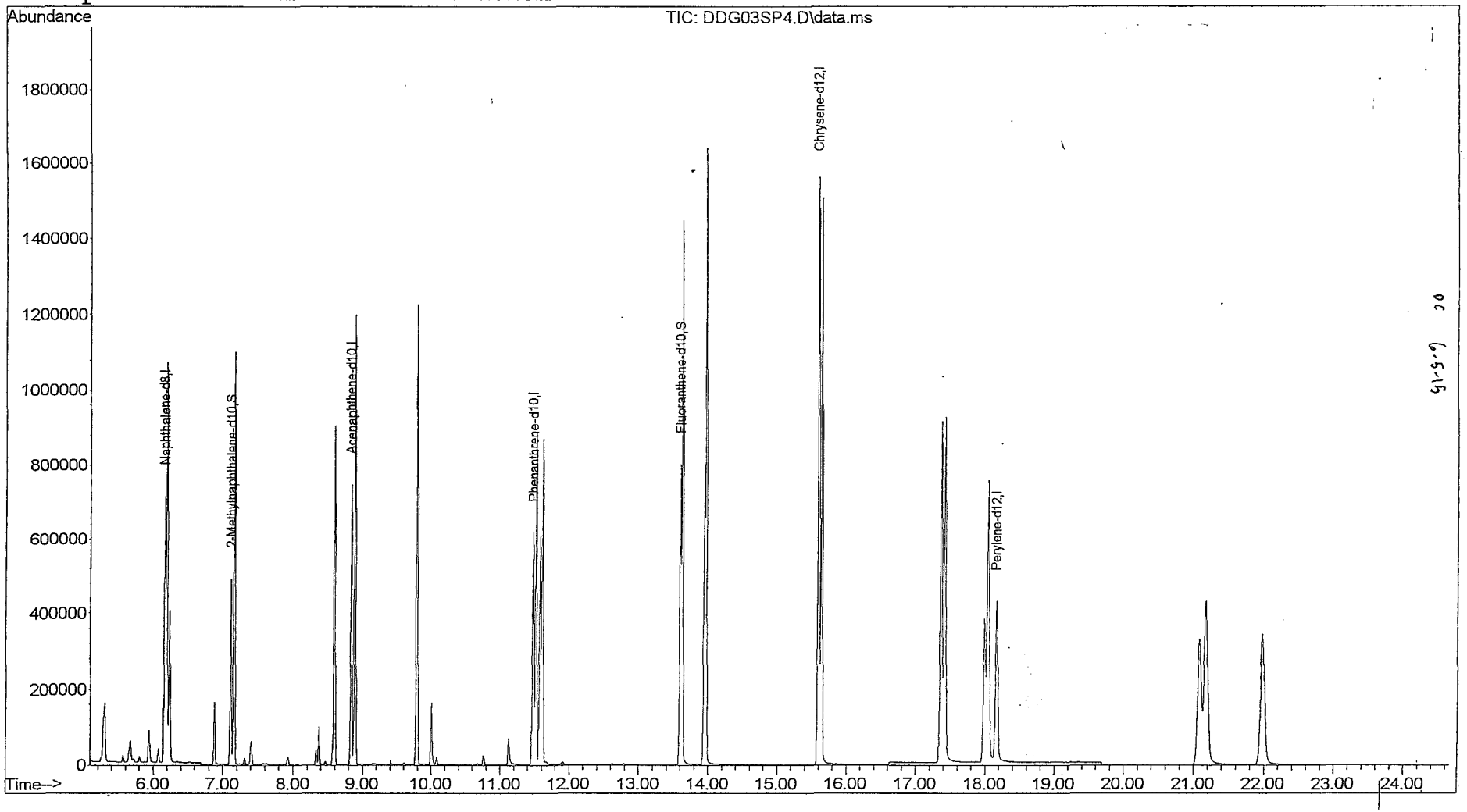
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG03SP4.D Vial: 3
Acq On : 03/25/2015 10:25 Operator: DJC
Sample : SSTD0.4DG 27493 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Mar 25 10:53:15 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG03SP4.D Vial: 3
Acq On : 03/25/2015 10:25 Operator: DJC
Sample : SSTD0.4DG 27493 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Mar 25 10:53:15 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.16	136	829952	0.40 ug/ml	
5) Acenaphthene-d10	8.83	164	496519	0.40 ug/ml	
9) Phenanthrene-d10	11.47	188	848812	0.40 ug/ml	
15) Chrysene-d12	15.61	240	931096	0.40 ug/ml	
19) Perylene-d12	18.16	264	790297	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.11	152	536757	0.395ug/mL	
13) Fluoranthene-d10	13.59	212	913687	0.396ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.19	128	868862	0.393ug/ml	93
4) 2-Methylnaphthalene	7.16	142	557588	0.396ug/ml	97
6) Acenaphthylene	8.59	152	867224	0.407ug/ml	96
7) Acenaphthene	8.89	153	555337	0.398ug/ml	98
8) Fluorene	9.79	166	644612	0.403ug/ml	98
10) Pentachlorophenol	11.12	266	47584	0.402ug/ml	100
11) Phenanthrene	11.51	178	976988	0.403ug/ml	97
12) Anthracene	11.61	178	948693	0.415ug/ml	96
14) Fluoranthene	13.62	202	1095908	0.401ug/ml	91
16) Pyrene	13.97	202	1160679	0.395ug/ml	92
17) Benzo(a)anthracene	15.59	228	986511	0.397ug/ml	99
18) Chrysene	15.64	228	1052641	0.400ug/ml	98
20) Benzo(b)fluoranthene	17.36	252	978791	0.404ug/ml	98
21) Benzo(k)fluoranthene	17.41	252	1031697	0.417ug/ml	99
22) Benzo(a)pyrene	18.04	252	949466	0.424ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	21.08	276	824139	0.419ug/ml	100
24) Dibenzo(a,h)anthracene	21.18	278	922854	0.429ug/ml	98
25) Benzo(g,h,i)perylene	21.98	276	930201	0.414ug/ml	72

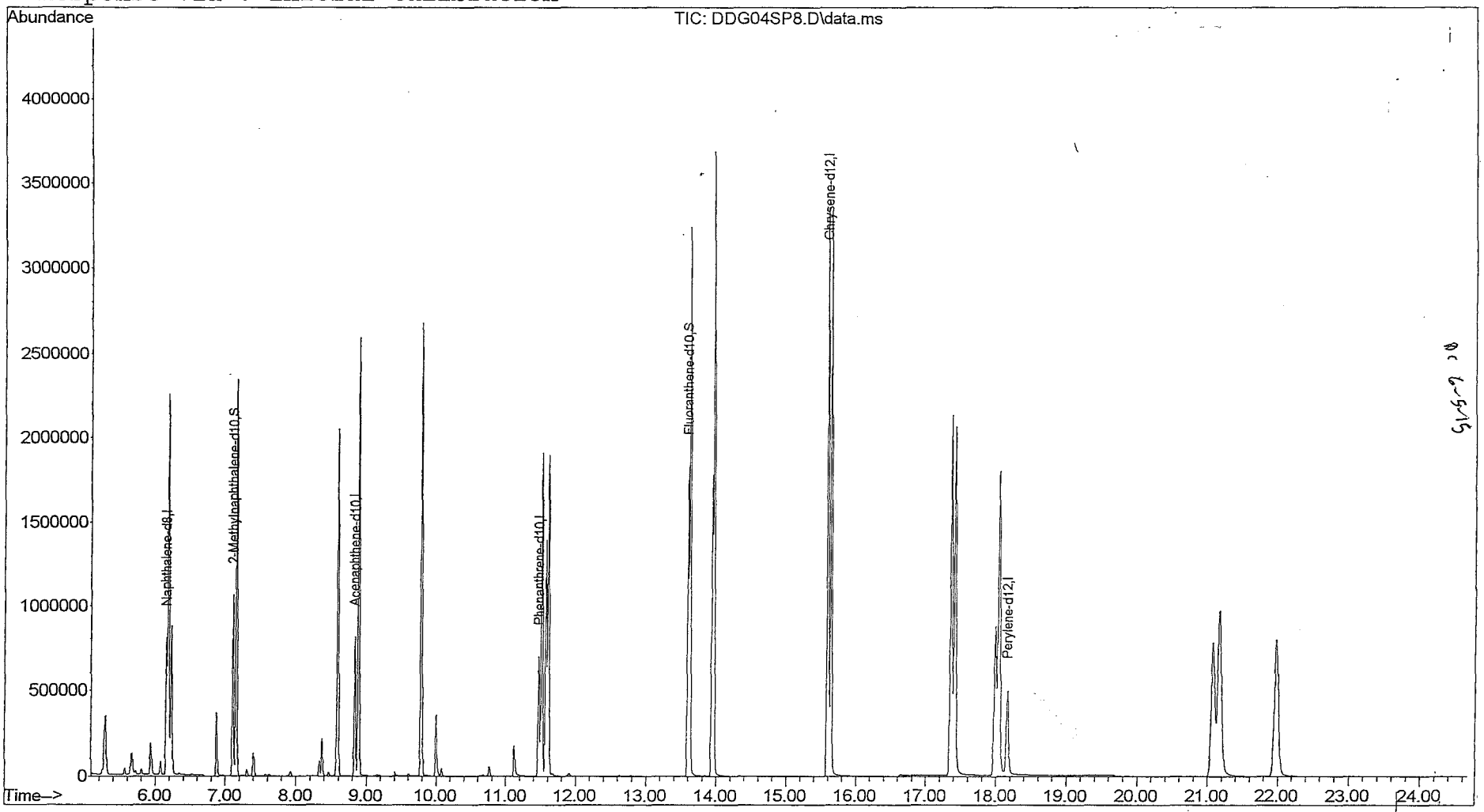
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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



6-5-15

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

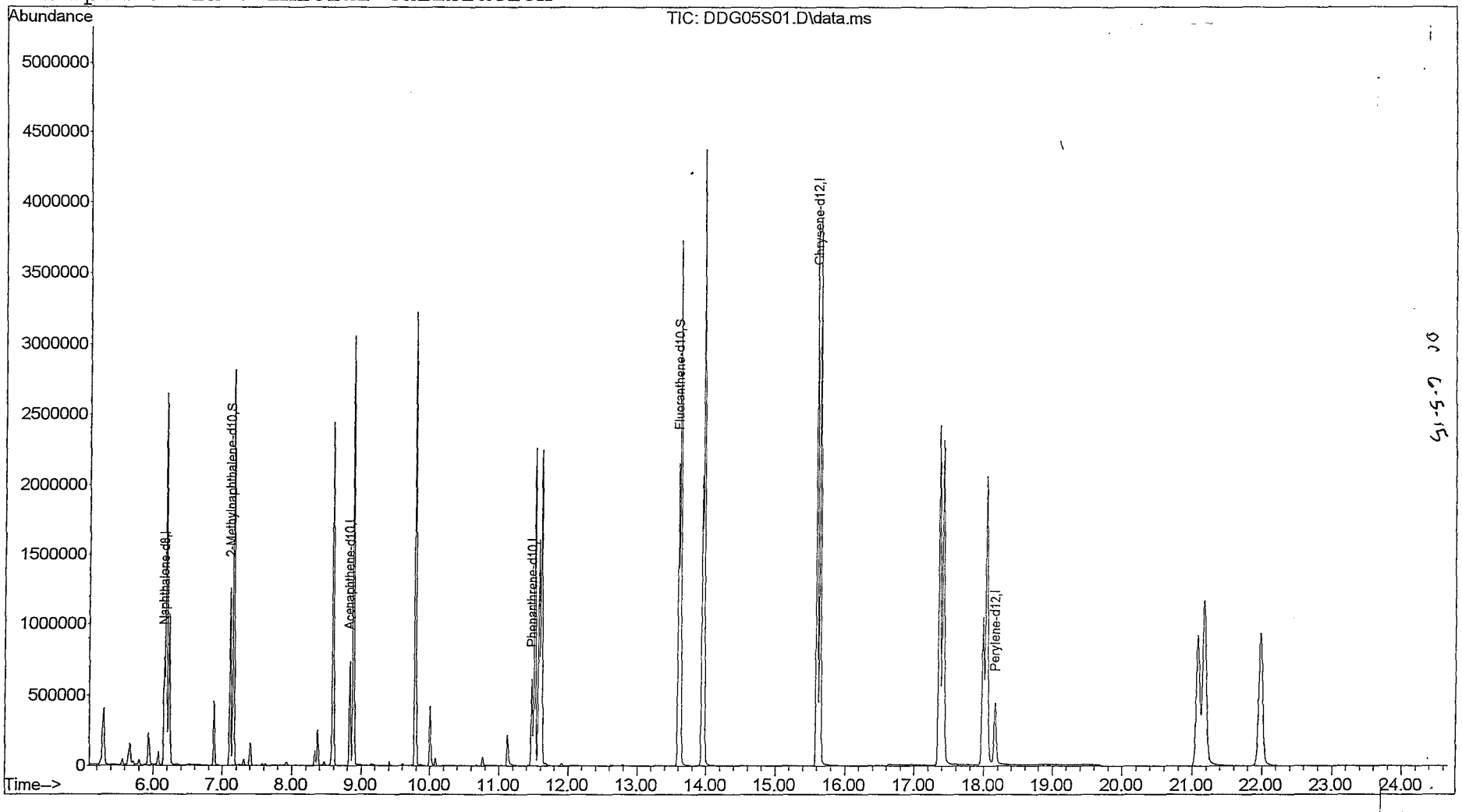
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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



5-5-15 JD

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)

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.: F9L58

Instrument ID: 5975-D Calibration Date: 06/08/2015 Time: 14:36

Lab File ID: DFW02SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4DW 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	0.994	0.700	-4.7	25.0
2-Methylnaphthalene	0.672	0.664	0.400	-1.1	25.0
Acenaphthylene	1.750	1.683	0.900	-3.9	25.0
Acenaphthene	1.120	1.076	0.900	-3.9	25.0
Fluorene	1.299	1.229	0.900	-5.4	25.0
Pentachlorophenol	0.060	0.057	0.050	-4.5	25.0
Phenanthrene	1.152	1.052	0.700	-8.6	25.0
Anthracene	1.120	1.035	0.700	-7.6	25.0
Fluoranthene	1.311	1.244	0.600	-5.1	25.0
Pyrene	1.255	1.175	0.600	-6.4	25.0
Benzo(a)anthracene	1.067	1.090	0.800	2.2	25.0
Chrysene	1.127	1.039	0.700	-7.8	25.0
Benzo(b)fluoranthene	1.247	1.136	0.700	-8.9	25.0
Benzo(k)fluoranthene	1.292	1.152	0.700	-10.8	25.0
Benzo(a)pyrene	1.191	1.086	0.700	-8.9	25.0
Indeno(1,2,3-cd)pyrene	1.043	1.054	0.500	1.1	25.0
Dibenzo(a,h)anthracene	1.153	1.078	0.400	-6.5	25.0
Benzo(g,h,i)perylene	1.172	1.107	0.500	-5.5	25.0
Fluoranthene-d10	1.094	1.075	0.010	-1.8	25.0
2-Methylnaphthalene-d10	0.645	0.652	0.010	1.0	25.0

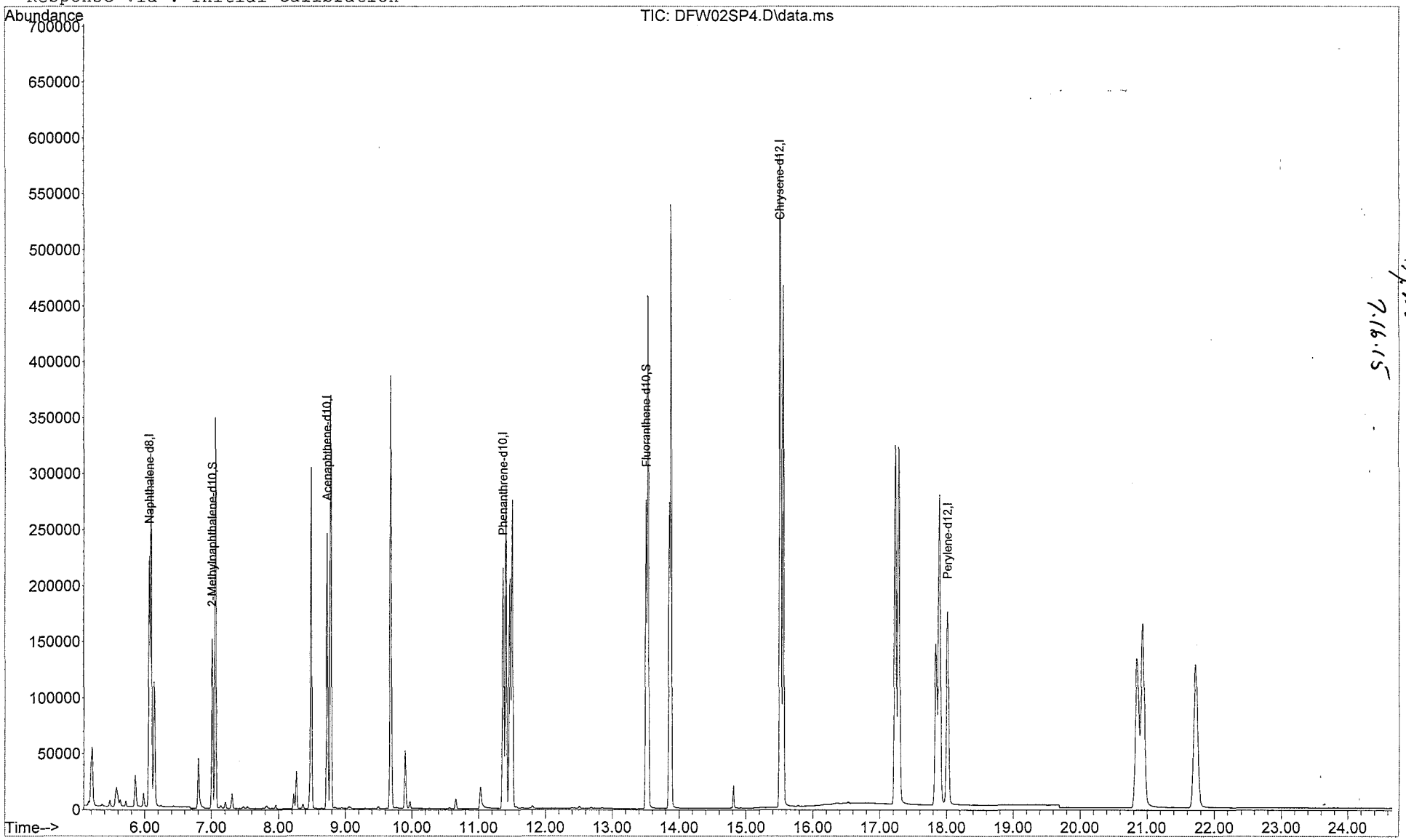
Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW02SP4.D
Acq On : 06/08/2015 14:36
Sample : SSTD0.4DW 28258
Misc : . X6-19-15
MS Integration Params: rteint.p

Vial: 1
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 08 15:01:38 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 Jul 15 14:52:03 2015
Response via : Initial Calibration



7.16.15

Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW02SP4.D Vial: 1
Acq On : 06/08/2015 14:36 Operator: DJC
Sample : SSTD0.4DW 28258 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 08 15:01:38 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 Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.07	136	255654	0.40 ug/ml
5) Acenaphthene-d10	8.73	164	164783	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	293343	0.40 ug/ml
15) Chrysene-d12	15.52	240	329128	0.40 ug/ml
19) Perylene-d12	18.02	264	309275	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	166599	0.404ug/mL
13) Fluoranthene-d10	13.50	212	315227	0.393ug/mL
Target Compounds				Qvalue
2) Naphthalene	6.09	128	254080	0.381ug/ml 95
4) 2-Methylnaphthalene	7.06	142	169792	0.396ug/ml 98
6) Acenaphthylene	8.49	152	277313	0.385ug/ml 97
7) Acenaphthene	8.78	153	177388	0.384ug/ml 99
8) Fluorene	9.68	166	202525	0.378ug/ml 100
10) Pentachlorophenol	11.03	266	16825	0.382ug/ml 100
11) Phenanthrene	11.41	178	308646	0.365ug/ml 98
12) Anthracene	11.50	178	303569	0.370ug/ml 97
14) Fluoranthene	13.53	202	364789	0.379ug/ml 88
16) Pyrene	13.88	202	386806	0.375ug/ml 88
17) Benzo(a)anthracene	15.51	228	358606	0.409ug/ml 98
18) Chrysene	15.56	228	342128	0.369ug/ml 97
20) Benzo(b)fluoranthene	17.23	252	351233	0.364ug/ml 100
21) Benzo(k)fluoranthene	17.28	252	356187	0.357ug/ml 100
22) Benzo(a)pyrene	17.89	252	335723	0.365ug/ml 99
23) Indeno(1,2,3-c,d)pyrene	20.85	276	325869	0.404ug/ml 100
24) Dibenzo(a,h)anthracene	20.93	278	333384	0.374ug/ml 99
25) Benzo(g,h,i)perylene	21.72	276	342495	0.378ug/ml 70

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

7H - FORM VII SV-SIM-
SEMIVOLATILE SIM CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-D Calibration Date: 06/08/2015 Time: 23:52

Lab File ID: DFW20SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4W1 Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	1.000	0.700	-4.2	25.0
2-Methylnaphthalene	0.672	0.664	0.400	-1.2	25.0
Acenaphthylene	1.750	1.722	0.900	-1.6	25.0
Acenaphthene	1.120	1.084	0.900	-3.2	25.0
Fluorene	1.299	1.256	0.900	-3.3	25.0
Pentachlorophenol	0.060	0.059	0.050	-1.5	25.0
Phenanthrene	1.152	1.053	0.700	-8.6	25.0
Anthracene	1.120	1.048	0.700	-6.5	25.0
Fluoranthene	1.311	1.236	0.600	-5.7	25.0
Pyrene	1.255	1.169	0.600	-6.8	25.0
Benzo(a)anthracene	1.067	1.104	0.800	3.5	25.0
Chrysene	1.127	1.034	0.700	-8.3	25.0
Benzo(b)fluoranthene	1.247	1.133	0.700	-9.1	25.0
Benzo(k)fluoranthene	1.292	1.118	0.700	-13.4	25.0
Benzo(a)pyrene	1.191	1.086	0.700	-8.8	25.0
Indeno(1,2,3-cd)pyrene	1.043	1.113	0.500	6.7	25.0
Dibenzo(a,h)anthracene	1.153	1.128	0.400	-2.2	25.0
Benzo(g,h,i)perylene	1.172	1.155	0.500	-1.5	25.0
Fluoranthene-d10	1.094	1.071	0.010	-2.1	25.0
2-Methylnaphthalene-d10	0.645	0.651	0.010	0.9	25.0

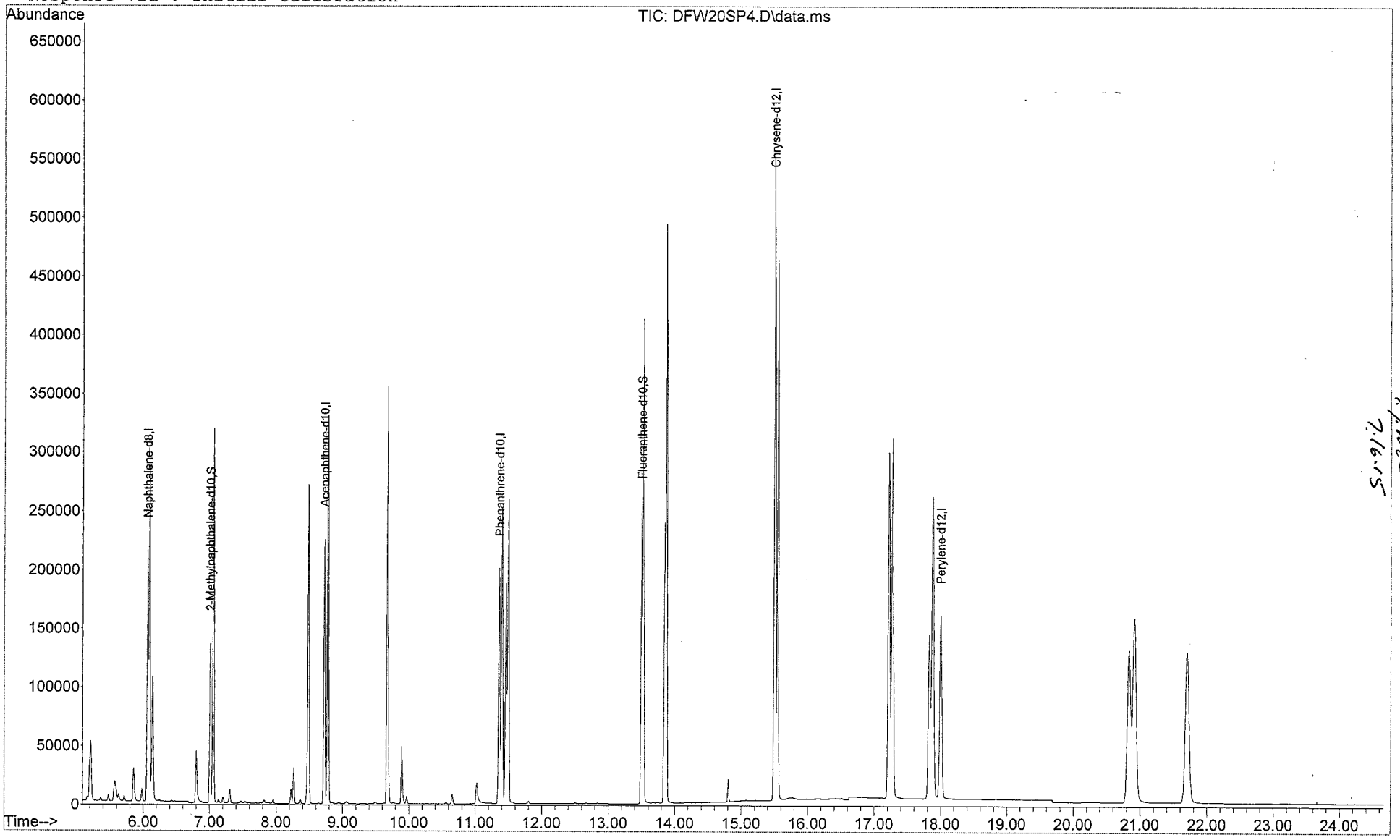
Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW20SP4.D
Acq On : 06/08/2015 23:52
Sample : SSTD0.4W1 28258
Misc : . X6-19-15
MS Integration Params: rteint.p

Vial: 1
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 09 00:16:54 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 Jul 15 14:52:03 2015
Response via : Initial Calibration



7.16.15

Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW20SP4.D Vial: 1
Acq On : 06/08/2015 23:52 Operator: DJC
Sample : SSTD0.4W1 28258 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 09 00:16:54 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 Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.06	136	234657	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	148025	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	267450	0.40 ug/ml	
15) Chrysene-d12	15.51	240	298211	0.40 ug/ml	
19) Perylene-d12	18.00	264	287556	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	152873	0.404ug/mL	
13) Fluoranthene-d10	13.50	212	286502	0.392ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.09	128	234597	0.383ug/ml	94
4) 2-Methylnaphthalene	7.05	142	155761	0.395ug/ml	98
6) Acenaphthylene	8.48	152	254925	0.394ug/ml	97
7) Acenaphthene	8.78	153	160521	0.387ug/ml	99
8) Fluorene	9.67	166	185922	0.387ug/ml	100
10) Pentachlorophenol	11.02	266	15814	0.394ug/ml	100
11) Phenanthrene	11.40	178	281623	0.366ug/ml	98
12) Anthracene	11.50	178	280207	0.374ug/ml	97
14) Fluoranthene	13.52	202	330651	0.377ug/ml	88
16) Pyrene	13.87	202	348753	0.373ug/ml	88
17) Benzo(a)anthracene	15.50	228	329242	0.414ug/ml	98
18) Chrysene	15.55	228	308377	0.367ug/ml	97
20) Benzo(b)fluoranthene	17.22	252	325816	0.364ug/ml	100
21) Benzo(k)fluoranthene	17.27	252	321457	0.346ug/ml	99
22) Benzo(a)pyrene	17.88	252	312335	0.365ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.84	276	320023	0.427ug/ml	100
24) Dibenzo(a,h)anthracene	20.91	278	324356	0.391ug/ml	98
25) Benzo(g,h,i)perylene	21.70	276	332231	0.394ug/ml	70

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

7H - FORM VII SV-SIM
SEMIVOLATILE SIM CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-D Calibration Date: 06/09/2015 Time: 03:48

Lab File ID: DFW29SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4W2 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	0.999	0.010	-4.3	50.0
2-Methylnaphthalene	0.672	0.668	0.010	-0.6	50.0
Acenaphthylene	1.750	1.714	0.010	-2.1	50.0
Acenaphthene	1.120	1.084	0.010	-3.2	50.0
Fluorene	1.299	1.258	0.010	-3.1	50.0
Pentachlorophenol	0.060	0.055	0.010	-8.5	50.0
Phenanthrene	1.152	1.054	0.010	-8.5	50.0
Anthracene	1.120	1.044	0.010	-6.8	50.0
Fluoranthene	1.311	1.235	0.010	-5.8	50.0
Pyrene	1.255	1.165	0.010	-7.2	50.0
Benzo(a)anthracene	1.067	1.107	0.010	3.8	50.0
Chrysene	1.127	1.037	0.010	-8.0	50.0
Benzo(b)fluoranthene	1.247	1.152	0.010	-7.6	50.0
Benzo(k)fluoranthene	1.292	1.107	0.010	-14.3	50.0
Benzo(a)pyrene	1.191	1.088	0.010	-8.6	50.0
Indeno(1,2,3-cd)pyrene	1.043	1.025	0.010	-1.7	50.0
Dibenzo(a,h)anthracene	1.153	1.047	0.010	-9.2	50.0
Benzo(g,h,i)perylene	1.172	1.074	0.010	-8.4	50.0
Fluoranthene-d10	1.094	1.072	0.010	-2.0	50.0
2-Methylnaphthalene-d10	0.645	0.653	0.010	1.2	50.0

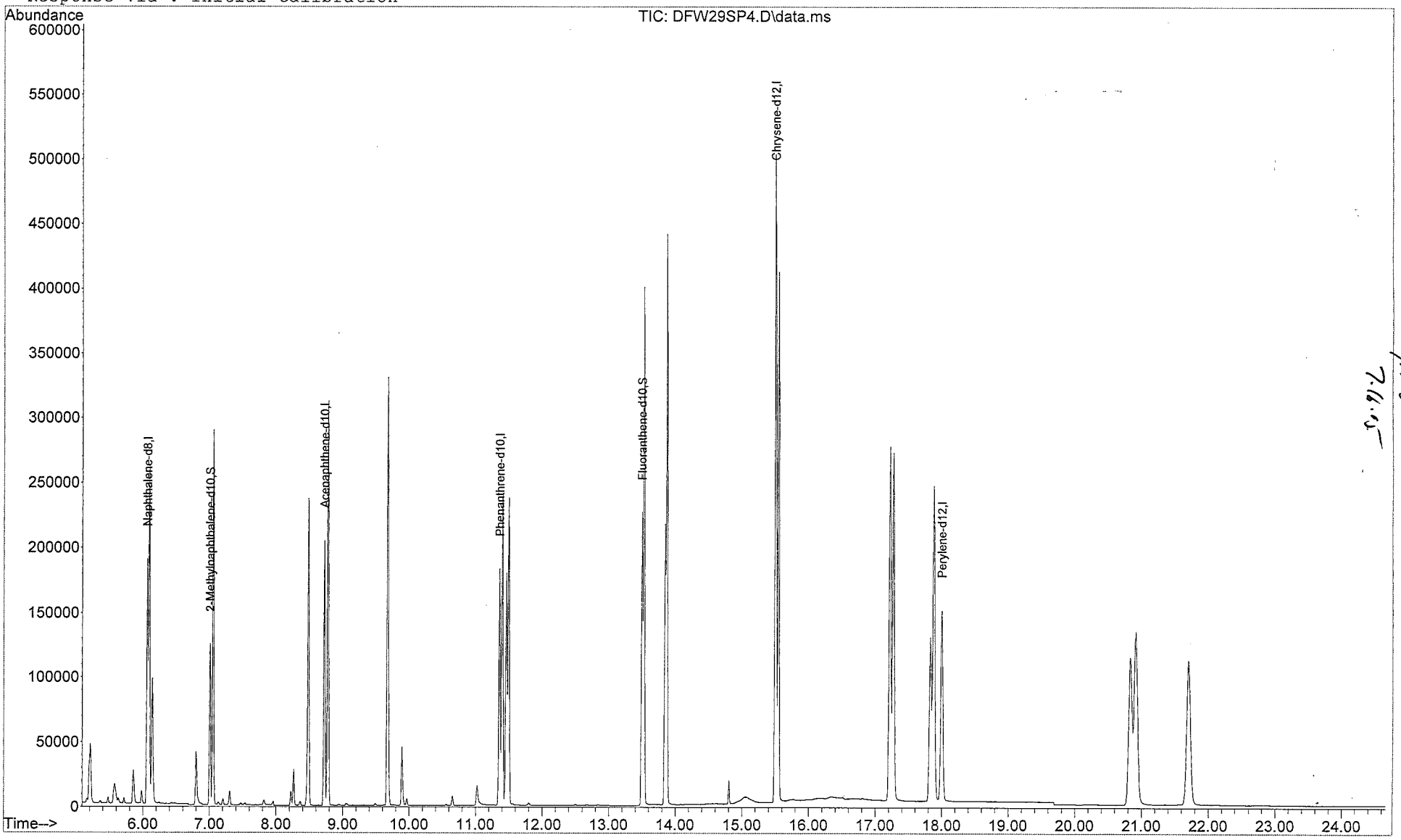
Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW29SP4.D
Acq On : 06/09/2015 03:48
Sample : SSTD0.4W2 28258
Misc : . X6-19-15
MS Integration Params: rteint.p

Vial: 24
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 09 04:13:12 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



7.16.15

Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW29SP4.D Vial: 24
Acq On : 06/09/2015 03:48 Operator: DJC
Sample : SSTD0.4W2 28258 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 09 04:13:12 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.06	136	212657	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	135615	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	247022	0.40 ug/ml
15) Chrysene-d12	15.51	240	276523	0.40 ug/ml
19) Perylene-d12	18.00	264	264851	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	138948	0.405ug/mL
13) Fluoranthene-d10	13.49	212	264711	0.392ug/mL
Target Compounds				Qvalue
2) Naphthalene	6.09	128	212378	0.383ug/ml 94
4) 2-Methylnaphthalene	7.05	142	141980	0.398ug/ml 98
6) Acenaphthylene	8.48	152	232506	0.392ug/ml 97
7) Acenaphthene	8.78	153	146983	0.387ug/ml 99
8) Fluorene	9.67	166	170638	0.387ug/ml 100
10) Pentachlorophenol	11.02	266	13567	0.366ug/ml 100
11) Phenanthrene	11.40	178	260373	0.366ug/ml 98
12) Anthracene	11.50	178	257842	0.373ug/ml 97
14) Fluoranthene	13.52	202	305021	0.377ug/ml 88
16) Pyrene	13.87	202	322075	0.371ug/ml 88
17) Benzo(a)anthracene	15.50	228	306003	0.415ug/ml 98
18) Chrysene	15.55	228	286753	0.368ug/ml 97
20) Benzo(b)fluoranthene	17.22	252	305193	0.370ug/ml 100
21) Benzo(k)fluoranthene	17.27	252	293142	0.343ug/ml 99
22) Benzo(a)pyrene	17.88	252	288203	0.365ug/ml 99
23) Indeno(1,2,3-c,d)pyrene	20.83	276	271388	0.393ug/ml 100
24) Dibenzo(a,h)anthracene	20.91	278	277286	0.363ug/ml 98
25) Benzo(g,h,i)perylene	21.70	276	284538	0.366ug/ml 71

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

7H - FORM VII SV-SIM
SEMIVOLATILE SIM CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-D Calibration Date: 07/16/2015 Time: 08:42

Lab File ID: DFN01SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4DN Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	1.015	0.700	-2.7	25.0
2-Methylnaphthalene	0.672	0.677	0.400	0.8	25.0
Acenaphthylene	1.750	1.756	0.900	0.3	25.0
Acenaphthene	1.120	1.117	0.900	-0.3	25.0
Fluorene	1.299	1.290	0.900	-0.7	25.0
Pentachlorophenol	0.060	0.044	0.050	-26.2	25.0
Phenanthrene	1.152	1.079	0.700	-6.3	25.0
Anthracene	1.120	1.058	0.700	-5.6	25.0
Fluoranthene	1.311	1.245	0.600	-5.1	25.0
Pyrene	1.255	1.201	0.600	-4.3	25.0
Benzo(a)anthracene	1.067	1.133	0.800	6.2	25.0
Chrysene	1.127	1.047	0.700	-7.1	25.0
Benzo(b)fluoranthene	1.247	1.206	0.700	-3.3	25.0
Benzo(k)fluoranthene	1.292	1.132	0.700	-12.3	25.0
Benzo(a)pyrene	1.191	1.104	0.700	-7.3	25.0
Indeno(1,2,3-cd)pyrene	1.043	1.093	0.500	4.9	25.0
Dibenzo(a,h)anthracene	1.153	1.104	0.400	-4.3	25.0
Benzo(g,h,i)perylene	1.172	1.118	0.500	-4.7	25.0
Fluoranthene-d10	1.094	1.091	0.010	-0.3	25.0
2-Methylnaphthalene-d10	0.645	0.669	0.010	3.6	25.0

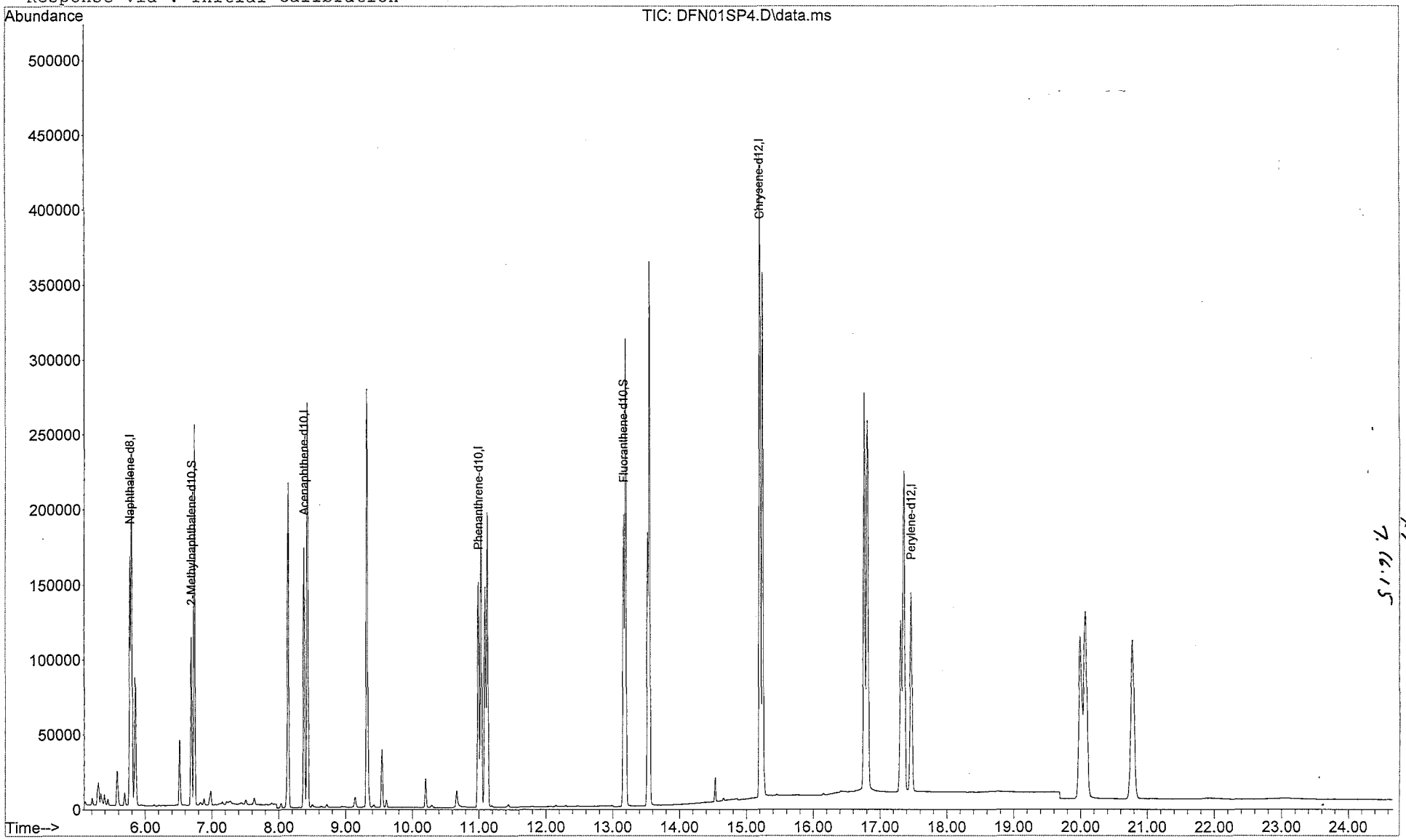
Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN01SP4.D
Acq On : 07/16/2015 08:42
Sample : SSTD0.4DN 28658
Misc : . X7-19-15
MS Integration Params: rteint.p

Vial: 1
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 16 09:06:55 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 Jul 15 14:52:03 2015
Response via : Initial Calibration



7.16.15

Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN01SP4.D Vial: 1
Acq On : 07/16/2015 08:42 Operator: DJC
Sample : SSTD0.4DN 28658 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 16 09:06:55 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 Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.77	136	180871	0.40 ug/ml	
5) Acenaphthene-d10	8.38	164	113995	0.40 ug/ml	
9) Phenanthrene-d10	10.99	188	202322	0.40 ug/ml	
15) Chrysene-d12	15.21	240	221121	0.40 ug/ml	
19) Perylene-d12	17.46	264	214488	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.69	152	120974	0.415ug/mL	
13) Fluoranthene-d10	13.16	212	220673	0.399ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.80	128	183533	0.389ug/ml	95
4) 2-Methylnaphthalene	6.74	142	122417	0.403ug/ml	99
6) Acenaphthylene	8.14	152	200190	0.401ug/ml	97
7) Acenaphthene	8.43	153	127327	0.399ug/ml	98
8) Fluorene	9.32	166	147108	0.397ug/ml	100
10) Pentachlorophenol	10.67	266	8968	0.295ug/ml	100
11) Phenanthrene	11.03	178	218220	0.375ug/ml	99
12) Anthracene	11.12	178	213999	0.378ug/ml	97
14) Fluoranthene	13.19	202	251827	0.380ug/ml	89
16) Pyrene	13.55	202	265525	0.383ug/ml	89
17) Benzo(a)anthracene	15.19	228	250431	0.425ug/ml	98
18) Chrysene	15.24	228	231603	0.372ug/ml	97
20) Benzo(b)fluoranthene	16.76	252	258700	0.387ug/ml	100
21) Benzo(k)fluoranthene	16.81	252	242816	0.351ug/ml	98
22) Benzo(a)pyrene	17.35	252	236753	0.371ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	19.99	276	234523	0.419ug/ml	100
24) Dibenzo(a,h)anthracene	20.07	278	236793	0.383ug/ml	98
25) Benzo(g,h,i)perylene	20.78	276	239778	0.381ug/ml	72

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00878

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.: F9L58

Instrument ID: 5975-D Calibration Date: 07/16/2015 Time: 13:17

Lab File ID: DFN11SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4N1 Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

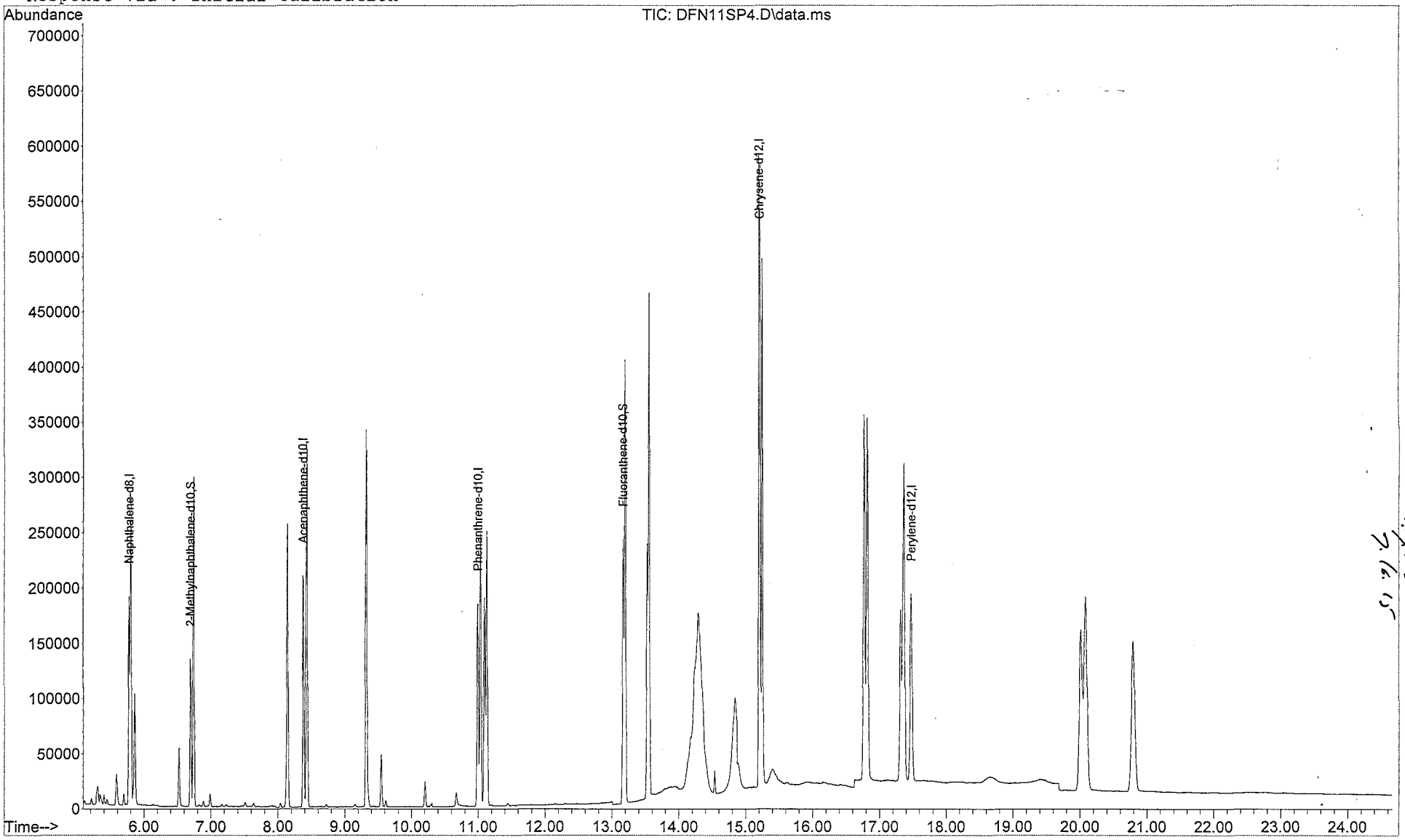
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	1.010	0.010	-3.2	50.0
2-Methylnaphthalene	0.672	0.681	0.010	1.4	50.0
Acenaphthylene	1.750	1.761	0.010	0.6	50.0
Acenaphthene	1.120	1.114	0.010	-0.5	50.0
Fluorene	1.299	1.287	0.010	-0.9	50.0
Pentachlorophenol	0.060	0.040	0.010	-32.7	50.0
Phenanthrene	1.152	1.068	0.010	-7.3	50.0
Anthracene	1.120	1.058	0.010	-5.6	50.0
Fluoranthene	1.311	1.264	0.010	-3.6	50.0
Pyrene	1.255	1.175	0.010	-6.4	50.0
Benzo(a)anthracene	1.067	1.154	0.010	8.2	50.0
Chrysene	1.127	1.055	0.010	-6.4	50.0
Benzo(b)fluoranthene	1.247	1.157	0.010	-7.2	50.0
Benzo(k)fluoranthene	1.292	1.117	0.010	-13.5	50.0
Benzo(a)pyrene	1.191	1.101	0.010	-7.6	50.0
Indeno(1,2,3-cd)pyrene	1.043	1.132	0.010	8.5	50.0
Dibenzo(a,h)anthracene	1.153	1.121	0.010	-2.8	50.0
Benzo(g,h,i)perylene	1.172	1.098	0.010	-6.3	50.0
Fluoranthene-d10	1.094	1.118	0.010	2.2	50.0
2-Methylnaphthalene-d10	0.645	0.672	0.010	4.0	50.0

Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN11SP4.D Vial: 1
Acq On : 07/16/2015 13:17 Operator: DJC
Sample : SSTD0.4N1 28658 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 16 13:42:28 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 Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN11SP4.D Vial: 1
Acq On : 07/16/2015 13:17 Operator: DJC
Sample : SSTD0.4N1 28658 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 16 13:42:28 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 Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.78	136	215942	0.40 ug/ml	
5) Acenaphthene-d10	8.38	164	138233	0.40 ug/ml	
9) Phenanthrene-d10	11.00	188	249965	0.40 ug/ml	
15) Chrysene-d12	15.21	240	288289	0.40 ug/ml	
19) Perylene-d12	17.47	264	286468	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.69	152	145010	0.416ug/mL	
13) Fluoranthene-d10	13.17	212	279403	0.409ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.80	128	218111	0.387ug/ml	94
4) 2-Methylnaphthalene	6.74	142	147048	0.406ug/ml	99
6) Acenaphthylene	8.14	152	243470	0.402ug/ml	97
7) Acenaphthene	8.43	153	154032	0.398ug/ml	98
8) Fluorene	9.32	166	177911	0.396ug/ml	100
10) Pentachlorophenol	10.67	266	10095	0.269ug/ml	100
11) Phenanthrene	11.03	178	266852	0.371ug/ml	98
12) Anthracene	11.13	178	264364	0.378ug/ml	97
14) Fluoranthene	13.20	202	315895	0.386ug/ml	88
16) Pyrene	13.55	202	338663	0.374ug/ml	89
17) Benzo(a)anthracene	15.20	228	332618	0.433ug/ml	98
18) Chrysene	15.24	228	304107	0.374ug/ml	97
20) Benzo(b)fluoranthene	16.77	252	331487	0.371ug/ml	100
21) Benzo(k)fluoranthene	16.82	252	320062	0.346ug/ml	99
22) Benzo(a)pyrene	17.36	252	315263	0.370ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.01	276	324178	0.434ug/ml	100
24) Dibenzo(a,h)anthracene	20.08	278	321171	0.389ug/ml	98
25) Benzo(g,h,i)perylene	20.79	276	314663	0.375ug/ml	71

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

1F - FORM I SV-SIM -
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK83

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 448483

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DFW03BLK

Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/08/2015

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

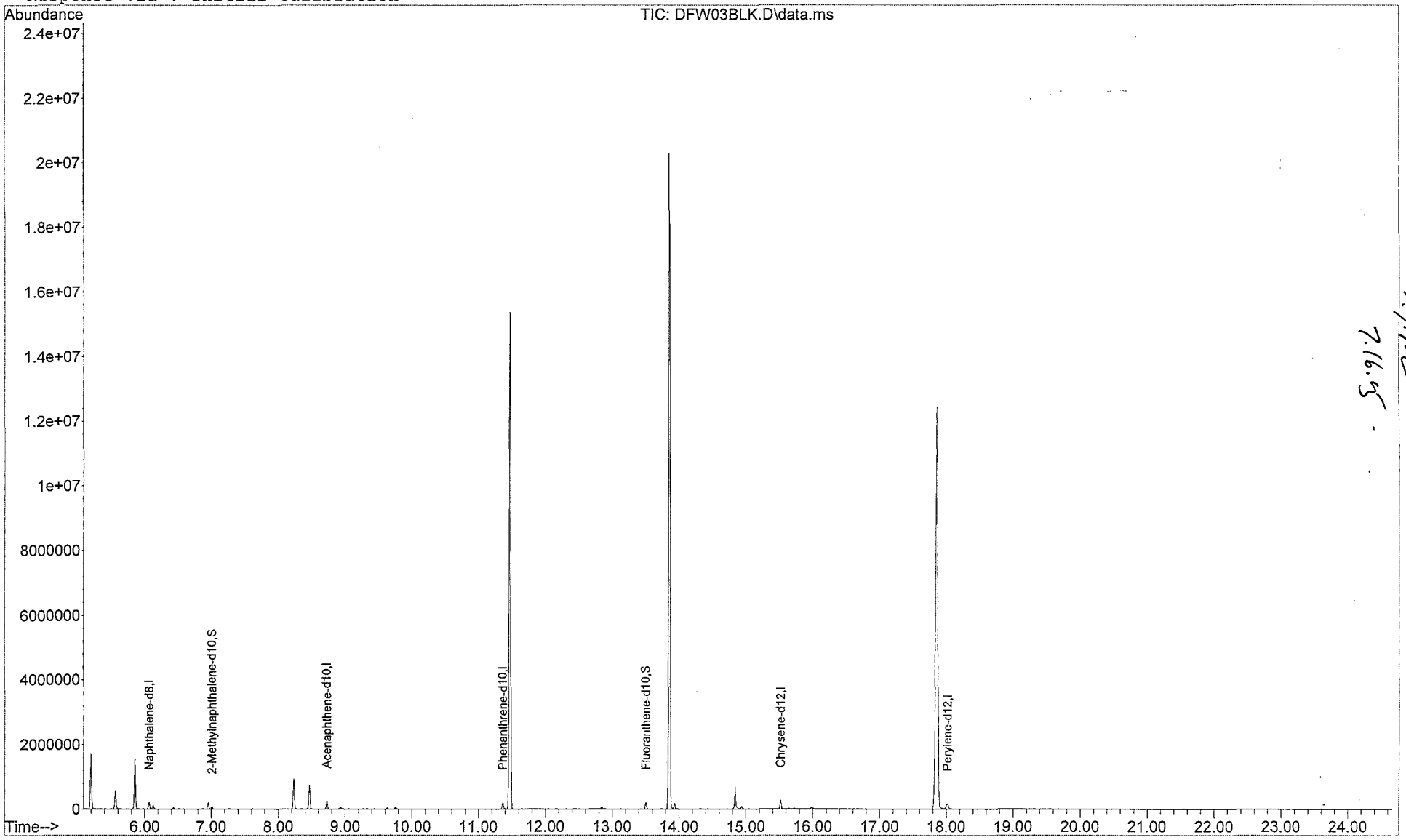
Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW03BLK.D
Acq On : 06/08/2015 15:20
Sample : 448483 SBLK83
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 2
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 11 10:17:16 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



7.16.15

Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW03BLK.D Vial: 2
Acq On : 06/08/2015 15:20 Operator: DJC
Sample : 448483 SBLK83 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 11 10:17:16 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.07	136	235007	0.40 ug/ml
5) Acenaphthene-d10	8.73	164	165935	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	283214	0.40 ug/ml
15) Chrysene-d12	15.52	240	301402	0.40 ug/ml
19) Perylene-d12	18.02	264	314083	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	85368	0.225ug/mL
13) Fluoranthene-d10	13.50	212	253049	0.327ug/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)

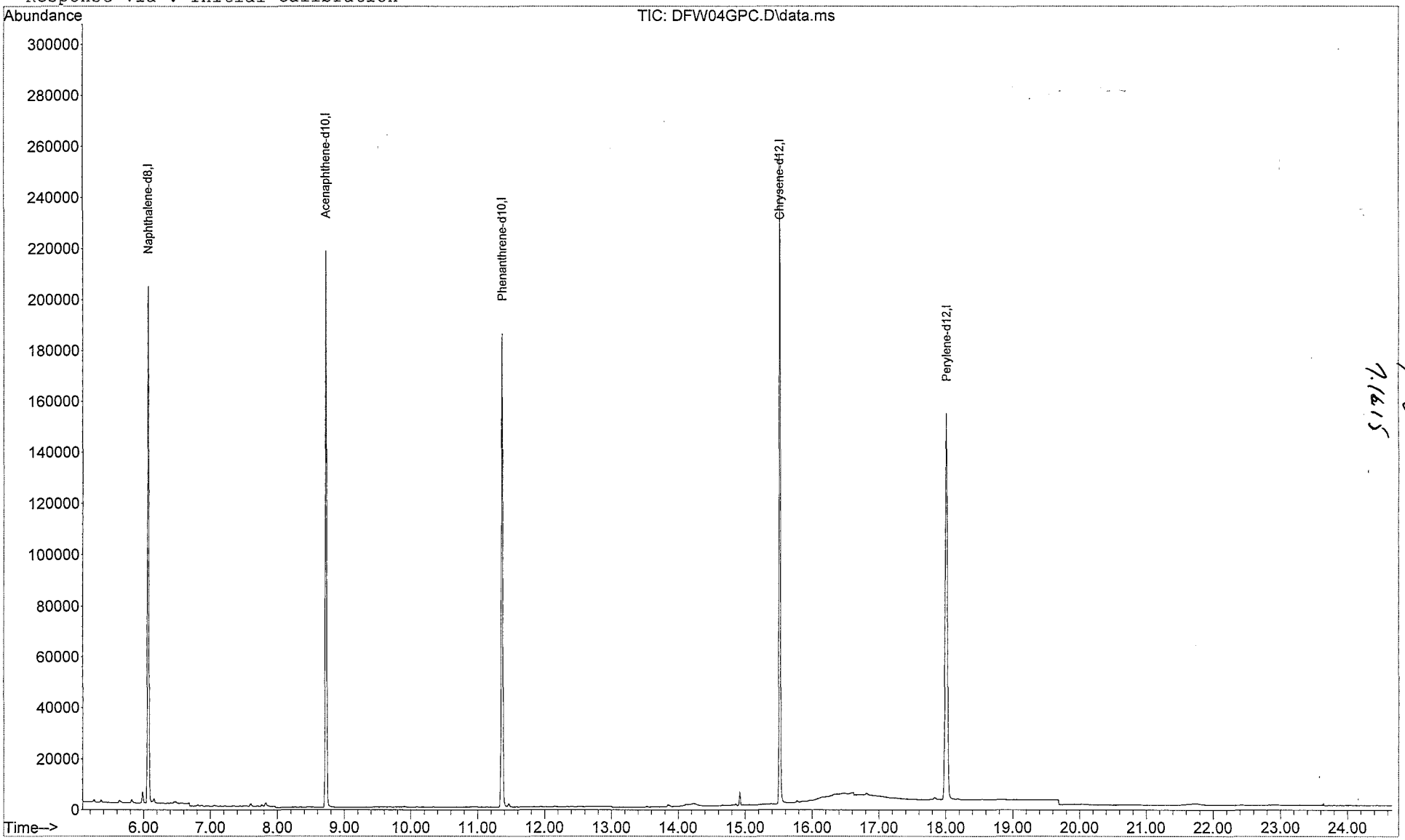
Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW04GPC.D
Acq On : 06/08/2015 15:50
Sample : 449153 GBLK53
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 3
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 08 16:15:01 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 Jul 15 14:52:03 2015
Response via : Initial Calibration



7/16/15

Quantitation Report

Data File : R:\D\2015\JUN15\08JUN15\DFW04GPC.D Vial: 3
Acq On : 06/08/2015 15:50 Operator: DJC
Sample : 449153 GBLK53 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 08 16:15:01 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 Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.07	136	236446	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	149158	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	260579	0.40 ug/ml
15) Chrysene-d12	15.51	240	281481	0.40 ug/ml
19) Perylene-d12	18.01	264	268980	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.15	152	68	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)

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
GBC01S20	06/02/2015 11:34	DJC	GSOM01D4	1	25.96	1	SSTD020GC 28237 DFTPPGC	X06/19/15
GBC02BLK	06/02/2015 12:10	DJC	GSOM01D4	2	25.96	1	448483 SBLK83	SOIL SOM
GBC03GPC	06/02/2015 12:42	DJC	GSOM01D4	3	25.96	1	GPC 7 BLK	SOIL SOM
GBC04S20	06/02/2015 14:58	DJC	GSOM01D4	1	25.96	1	SSTD020C1 28237 DFTPPC1	X06/19/15
GBC05F01	06/02/2015 15:36	DJC	GSOM01D4	4	25.96	1	1514293001 F9L58 (5)	SOIL SOM
GBC06F02	06/02/2015 16:09	DJC	GSOM01D4	5	25.96	1	1514293002 F9L59 (5)	SOIL SOM
GBC07F03	06/02/2015 16:42	DJC	GSOM01D4	6	25.96	1	1514293003 F9L60	SOIL SOM
GBC08F04	06/02/2015 17:14	DJC	GSOM01D4	7	25.96	1	1514293004 F9L61	SOIL SOM
GBC09F05	06/02/2015 17:47	DJC	GSOM01D4	8	25.96	1	1514293005 F9L62	SOIL SOM
GBC10F06	06/02/2015 18:20	DJC	GSOM01D4	9	25.96	1	1514293006 F9L63 (5)	SOIL SOM
GBC11F07	06/02/2015 18:53	DJC	GSOM01D4	10	25.96	1	1514293007 F9L64	SOIL SOM
GBC12F08	06/02/2015 19:25	DJC	GSOM01D4	11	25.96	1	1514293008 F9L65	SOIL SOM
GBC13F09	06/02/2015 19:58	DJC	GSOM01D4	12	25.96	1	1514293009 F9L66	SOIL SOM
GBC14F12	06/02/2015 20:30	DJC	GSOM01D4	13	25.96	1	1514293012 F9L67 (10)	SOIL SOM
GBC15F13	06/02/2015 21:02	DJC	GSOM01D4	14	25.96	1	1514293013 F9L68	SOIL SOM
GBC16F14	06/02/2015 21:34	DJC	GSOM01D4	15	25.96	1	1514293014 F9L69	SOIL SOM
GBC17F15	06/02/2015 22:06	DJC	GSOM01D4	16	25.96	1	1514293015 F9L70 (10)	SOIL SOM
GBC18F16	06/02/2015 22:38	DJC	GSOM01D4	17	25.96	1	1514293016 F9L71	SOIL SOM
GBC19F17	06/02/2015 23:10	DJC	GSOM01D4	18	25.96	1	1514293017 F9L72	SOIL SOM
GBC20S20	06/02/2015 23:42	DJC	GSOM01D4	1	25.96	1	SSTD020C2 28237 DFTPPC2	X06/19/15
GBC21S20	06/03/2015 00:14	DJC	GSOM01D4	1	25.96	1	SSTD020C2 28237 DFTPPC2	X06/19/15
GBC22S20	06/03/2015 00:46	DJC	GSOM01D4	1	25.96	1	SSTD020C2 28237 DFTPPC2	X06/19/15
GBC23F18	06/03/2015 01:18	DJC	GSOM01D4	19	25.96	1	1514293018 F9L73	SOIL SOM
GBC24F19	06/03/2015 01:50	DJC	GSOM01D4	20	25.96	1	1514293019 F9L75	SOIL SOM
GBC25F20	06/03/2015 02:23	DJC	GSOM01D4	21	25.96	1	1514293020 F9L77	SOIL SOM
GBC26F21	06/03/2015 02:55	DJC	GSOM01D4	22	25.96	1	1514293021 F9L78	SOIL SOM
GBC27F22	06/03/2015 03:28	DJC	GSOM01D4	23	25.96	1	1514293022 F9L79	SOIL SOM
GBC28S20	06/03/2015 04:00	DJC	GSOM01D4	24	25.96	1	SSTD020C3 28237 DFTPPC3	X06/19/15
GBC29S20	06/03/2015 04:33	DJC	GSOM01D4	24	25.96	1	SSTD020C3 28237 DFTPPC3	X06/19/15
GBC30S20	06/03/2015 05:05	DJC	GSOM01D4	24	25.96	1	SSTD020C3 28237 DFTPPC3	X06/19/15
GBC31S20	06/03/2015 05:38	DJC	GSOM01D4	24	25.96	1	SSTD020C3 28237 DFTPPC3	X06/19/15

DATACHEM LABORATORIES - GC\MS SEMIVOLATILE ANALYSIS
INJECTION LOGBOOK
INSTRUMENT 5975-G

File Name	Date and Time Injected	OP	Method	ALS BOT	Run Length	Dil Fac	Sample name	Misc info
GCM01S20	07/06/2015 14:39	TJM	GSOM01D6	1	25.96	1	SSTD020GM 28543 DFTPPGM	X07/19/15
GCM02F14	07/06/2015 15:12	TJM	GSOM01D6	9	25.96	1	1514076014 F9K91	SOIL SOM
GCM03F15	07/06/2015 15:45	TJM	GSOM01D6	10	25.96	1	1514076015 F9K93	SOIL SOM
GCM04F18	07/06/2015 16:18	TJM	GSOM01D6	11	25.96	1	1514076018 F9KA1	SOIL SOM
GCM05F01	07/06/2015 16:50	TJM	GSOM01D6	12	25.96	1	1514076001 F9L53	SOIL SOM
GCM06F01	07/06/2015 17:23	TJM	GSOM01D6	13	25.96	1	1514293001 F9L58	SOIL SOM
GCM07F02	07/06/2015 17:55	TJM	GSOM01D6	14	25.96	1	1514293002 F9L59	SOIL SOM
GCM08F06	07/06/2015 18:28	TJM	GSOM01D6	15	25.96	1	1514293006 F9L63	SOIL SOM
GCM09F12	07/06/2015 19:01	TJM	GSOM01D6	16	25.96	1	1514293012 F9L67	SOIL SOM
GCM10F15	07/06/2015 19:34	TJM	GSOM01D6	17	25.96	1	1514293015 F9L70	SOIL SOM
GCM11F12	07/06/2015 20:07	TJM	GSOM01D6	18	25.96	1	1514301012 F9L88 (2)	SOIL SOM
GCM12F13	07/06/2015 20:39	TJM	GSOM01D6	19	25.96	1	1514301013 F9L89	SOIL SOM
GCM13S20	07/06/2015 21:12	TJM	GSOM01D6	1	25.96	1	SSTD020GM 28543 DFTPPGM	X07/19/15
GCM14S20	07/06/2015 21:45	TJM	GSOM01D6	1	25.96	1	SSTD020GM 28543 DFTPPGM	X07/19/15

DATACHEM LABORATORIES - GC\MS SEMIVOLATILE ANALYSIS
INJECTION LOGBOOK
INSTRUMENT 5975-G

File Name	Date and Time Injected	OP	Method	ALS BOT	Run Length	Dil Fac	Sample name	Misc info
GBV01S20	06/20/2015 10:04	DJC	GSOM01D4	1	25.96	1	SSTD020GT DFTPPGT	X07/19/15
GBV02S10	06/20/2015 10:37	DJC	GSOM01D4	2	25.96	1	SSTD010GV 28435	X07/19/15
GBV03S05	06/20/2015 11:10	DJC	GSOM01D4	3	25.96	1	SSTD005GV 28435	X07/19/15
GBV04S10	06/20/2015 11:43	DJC	GSOM01D4	2	25.96	1	SSTD010GV 28435 (2)	X07/19/15
GBV05S20	06/20/2015 12:16	DJC	GSOM01D4	1	25.96	1	SSTD020GV 28435 DFTPPGV	X07/19/15
GBV06S40	06/20/2015 12:49	DJC	GSOM01D4	4	25.96	1	SSTD040GV 28436	X07/19/15
GBV07S80	06/20/2015 13:22	DJC	GSOM01D4	5	25.96	1	SSTD080GV 28437	X07/19/15
GBV08S16	06/20/2015 13:55	DJC	GSOM01D4	6	25.96	1	SSTD160GV 28438	X07/19/15
GBV09BLK	06/20/2015 14:28	DJC	GSOM01D6	7	25.96	1	452426 SBLK26	SOIL SOM
GBV10GPC	06/20/2015 15:01	DJC	GSOM01D6	8	25.96	1	452534 GBLK34	SOIL SOM
GBV11F01	06/20/2015 15:35	DJC	GSOM01D6	9	25.96	1	1515618001 F9M69	SOIL SOM
GBV12F02	06/20/2015 16:08	DJC	GSOM01D6	10	25.96	1	1515618002 F9M70	SOIL SOM
GBV13F03	06/20/2015 16:42	DJC	GSOM01D6	11	25.96	1	1515618003 F9M71	SOIL SOM
GBV14F04	06/20/2015 17:16	DJC	GSOM01D6	12	25.96	1	1515618004 F9M72	SOIL SOM
GBV15F05	06/20/2015 17:49	DJC	GSOM01D6	13	25.96	1	1515618005 F9M73	SOIL SOM
GBV16F06	06/20/2015 18:22	DJC	GSOM01D6	14	25.96	1	1515618006 F9M74	SOIL SOM
GBV17F07	06/20/2015 18:56	DJC	GSOM01D6	15	25.96	1	1515618007 F9M75	SOIL SOM
GBV18F08	06/20/2015 19:29	DJC	GSOM01D6	16	25.96	1	1515618008 F9M76	SOIL SOM
GBV19F09	06/20/2015 20:02	DJC	GSOM01D6	17	25.96	1	1515618009 F9M77	SOIL SOM
GBV20F10	06/20/2015 20:35	DJC	GSOM01D6	18	25.96	1	1515618010 F9M78	SOIL SOM
GBV21F11	06/20/2015 21:07	DJC	GSOM01D6	19	25.96	1	1515618011 F9M79	SOIL SOM
GBV22S20	06/20/2015 21:40	DJC	GSOM01D4	1	25.96	1	SSTD020V1 28435 DFTPPV1	X07/19/15
GBV23S20	06/20/2015 22:12	DJC	GSOM01D4	1	25.96	1	SSTD020V1 28435 DFTPPV1	X07/19/15
GBV24S20	06/20/2015 22:44	DJC	GSOM01D4	1	25.96	1	SSTD020V1 28435 DFTPPV1	X07/19/15
GBV25F01	06/20/2015 23:17	DJC	GSOM01D6	20	25.96	1	1515380001 F9M15 (5)	SOIL SOM
GBV26F04	06/20/2015 23:49	DJC	GSOM01D6	21	25.96	1	1515380004 F9M20	SOIL SOM
GBV27S20	06/21/2015 00:21	DJC	GSOM01D4	1	25.96	1	SSTD020V2 28435 DFTPPV2	X07/19/15
GBV28S20	06/21/2015 00:54	DJC	GSOM01D4	1	25.96	1	SSTD020V2 28435 DFTPPV2	X07/19/15
GBV29S20	06/21/2015 01:26	DJC	GSOM01D4	1	25.96	1	SSTD020V2 28435 DFTPPV2	X07/19/15
GBV30S20	06/21/2015 01:58	DJC	GSOM01D4	1	25.96	1	SSTD020V2 28435 DFTPPV2	X07/19/15

DATACHEM LABORATORIES - GC\MS SEMIVOLATILE ANALYSIS
INJECTION LOGBOOK
INSTRUMENT 5975-G

File Name	Date and Time Injected	OP	Method	ALS BOT	Run Length	Dil Fac	Sample name	Misc info
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

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
DFW01SP4	06/08/2015 11:27	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4DW 28258	X6-19-15
DFW02SP4	06/08/2015 14:36	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4DW 28258	X6-19-15
DFW03BLK	06/08/2015 15:20	DJC	DSOM_SIMJ2	2	24.66	1	448483 SBLK83	SOIL SIM
DFW04GPC	06/08/2015 15:50	DJC	DSOM_SIMJ2	3	24.66	1	449153 GBLK53	SOIL SIM
DFW05F01	06/08/2015 16:23	DJC	DSOM_SIMJ2	4	24.66	1	1514293001 F9L58 (30)	SOIL SIM
DFW06F02	06/08/2015 16:53	DJC	DSOM_SIMJ2	5	24.66	1	1514293002 F9L59 (5)	SOIL SIM
DFW07F03	06/08/2015 17:24	DJC	DSOM_SIMJ2	6	24.66	1	1514293003 F9L60	SOIL SIM
DFW08F04	06/08/2015 17:54	DJC	DSOM_SIMJ2	7	24.66	1	1514293004 F9L61	SOIL SIM
DFW09F05	06/08/2015 18:24	DJC	DSOM_SIMJ2	8	24.66	1	1514293005 F9L62	SOIL SIM
DFW10F06	06/08/2015 18:54	DJC	DSOM_SIMJ2	9	24.66	1	1514293006 F9L63 (5)	SOIL SIM
DFW11F07	06/08/2015 19:24	DJC	DSOM_SIMJ2	10	24.66	1	1514293007 F9L64	SOIL SIM
DFW12F08	06/08/2015 19:54	DJC	DSOM_SIMJ2	11	24.66	1	1514293008 F9L65	SOIL SIM
DFW13F09	06/08/2015 20:24	DJC	DSOM_SIMJ2	12	24.66	1	1514293009 F9L66	SOIL SIM
DFW14F12	06/08/2015 20:54	DJC	DSOM_SIMJ2	13	24.66	1	1514293012 F9L67 (10)	SOIL SIM
DFW15F13	06/08/2015 21:23	DJC	DSOM_SIMJ2	14	24.66	1	1514293013 F9L68	SOIL SIM
DFW16F14	06/08/2015 21:53	DJC	DSOM_SIMJ2	15	24.66	1	1514293014 F9L69	SOIL SIM
DFW17F15	06/08/2015 22:23	DJC	DSOM_SIMJ2	16	24.66	1	1514293015 F9L70 (10)	SOIL SIM
DFW18F16	06/08/2015 22:52	DJC	DSOM_SIMJ2	17	24.66	1	1514293016 F9L71	SOIL SIM
DFW19F17	06/08/2015 23:22	DJC	DSOM_SIMJ2	18	24.66	1	1514293017 F9L72	SOIL SIM
DFW20SP4	06/08/2015 23:52	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4W1 28258	X6-19-15
DFW22SP4	06/09/2015 00:21	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4W1 28258	X6-19-15
DFW23SP4	06/09/2015 00:51	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4W1 28258	X6-19-15
DFW24F18	06/09/2015 01:20	DJC	DSOM_SIMJ2	19	24.66	1	1514293018 F9L73	SOIL SIM
DFW25F19	06/09/2015 01:50	DJC	DSOM_SIMJ2	20	24.66	1	1514293019 F9L75	SOIL SIM
DFW26F20	06/09/2015 02:19	DJC	DSOM_SIMJ2	21	24.66	1	1514293020 F9L77	SOIL SIM
DFW27F21	06/09/2015 02:49	DJC	DSOM_SIMJ2	22	24.66	1	1514293021 F9L78	SOIL SIM
DFW28F22	06/09/2015 03:18	DJC	DSOM_SIMJ2	23	24.66	1	1514293022 F9L79	SOIL SIM
DFW29SP4	06/09/2015 03:48	DJC	DSOM_SIMJ2	24	24.66	1	SSTD0.4W2 28258	X6-19-15
DFW30SP4	06/09/2015 04:18	DJC	DSOM_SIMJ2	24	24.66	1	SSTD0.4W2 28258	X6-19-15
DFW31SP4	06/09/2015 04:47	DJC	DSOM_SIMJ2	24	24.66	1	SSTD0.4W2 28258	X6-19-15

DATACHEM LABORATORIES - GC\MS SEMIVOLATILE ANALYSIS
INJECTION LOGBOOK
INSTRUMENT 5975-D

File Name	Date and Time Injected	OP	Method	ALS BOT	Run Length	Dil Fac	Sample name	Misc info
DFN01SP4	07/16/2015 08:42	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4DN 28658	X7-19-15
DFN03F01	07/16/2015 09:14	DJC	DSOM_SIMJ2	2	24.66	1	1515542001 F9M21 (2)	SOIL SIM
DFN04F02	07/16/2015 09:45	DJC	DSOM_SIMJ2	3	24.66	1	1515542002 F9M22 (2)	SOIL SIM
DFN05F05	07/16/2015 10:15	DJC	DSOM_SIMJ2	4	24.66	1	1515542005 F9M25 (2)	SOIL SIM
DFN06F06	07/16/2015 10:46	DJC	DSOM_SIMJ2	5	24.66	1	1515542006 F9M26 (2)	SOIL SIM
DFN07F02	07/16/2015 11:16	DJC	DSOM_SIMJ2	17	24.66	1	1514293002 F9L59	SOIL SIM
DFN08F06	07/16/2015 11:46	DJC	DSOM_SIMJ2	18	24.66	1	1514293006 F9L63	SOIL SIM
DFN09F12	07/16/2015 12:17	DJC	DSOM_SIMJ2	19	24.66	1	1514293012 F9L67	SOIL SIM
DFN10F15	07/16/2015 12:47	DJC	DSOM_SIMJ2	20	24.66	1	1514293015 F9L70	SOIL SIM
DFN11SP4	07/16/2015 13:17	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4N1 28658	X7-19-15

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).

EPA-CLP CHECKING DOCUMENTATION FORM FOR GC/MS ORGANICS ANALYSIS

Case 45316 SDG F9L58 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 [illegible] Date 7/17/15

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 [illegible] Date 7/17/15

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 7.17.15

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 7.17.15

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 07/17/2015